

**Post-Interim Action Construction
Groundwater Monitoring Report**

Quiet Cove Site
Anacortes, Washington
Ecology Agreed Order No. DE 11346

for
**Washington State Department of Ecology on
Behalf of Port of Anacortes**

October 28, 2022



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2101 4th Avenue, Suite 950
Seattle, Washington
206.728.2674

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File No. 5147-024-11

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Prepared for:

Washington State Department of Ecology
PO Box 47600
Olympia, Washington 98504-7600

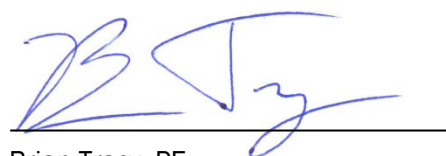
Attention: Josh Morman and Amy Hargrove

On Behalf of:

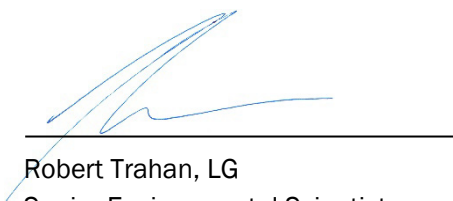
Port of Anacortes
100 Commercial Avenue
Anacortes, Washington 98221

Prepared by:

GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, Washington 98121
206.728.2674



Brian Tracy, PE
Senior Environmental Scientist



Robert Trahan, LG
Senior Environmental Scientist



John Herzog, PhD, LG
Principal

BJT:RST:JMh:leh

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1.0 INTRODUCTION

Pursuant to Agreed Order No. DE11346 and the Washington Department of Ecology (Ecology) approved Post-Interim Action Construction Groundwater Monitoring Plan (GeoEngineers 2021a), post-Interim Action groundwater monitoring activities were completed by the Port of Anacortes (Port) to evaluate groundwater conditions on a quarterly basis over a one-year duration following completion of the 2021 Interim Action at the Quiet Cove Site (Site). The Site is situated along the southern shoreline of Guemes Channel at 202 O Avenue (the intersection of 2nd Street and O Avenue) in Anacortes, Washington (Figure 1).

In accordance with the Ecology-approved Interim Action Work Plan (IAWP; GeoEngineers 2020), petroleum hydrocarbon-related contaminated soil resulting from historical land use was excavated and transported from a portion of the Site for permitted landfill disposal between August 2020 and February 2021. Details of the Interim Action Cleanup are described in the Interim Action Construction Completion Report (Completion Report; GeoEngineers 2021b). This Post-Interim Action Construction Report is being provided to document the changes in groundwater conditions at the Site as a result of completed cleanup activities.

Sampling and analysis for the four quarterly groundwater monitoring events are summarized in the following sections. Groundwater monitoring activities described in this report were completed in accordance with the Ecology-approved Post-Interim Action Construction Groundwater Monitoring Plan. Detailed information regarding Site description, historical use, and subsurface soil and groundwater conditions prior to completion of the 2021 Interim Action are presented in the Remedial Investigation/Feasibility Study (RI/FS) Work Plan (GeoEngineers 2017).

2.0 GROUNDWATER MONITORING

Quarterly groundwater monitoring was performed at the Site to further evaluate groundwater conditions following the Interim Action cleanup construction activities. New and existing groundwater monitoring wells were sampled on a quarterly basis over a one-year duration to capture seasonal and temporal conditions following the 2021 Interim Action. Groundwater samples were collected during the following monitoring events:

- Round 1 Groundwater Monitoring Event – Completed in October 2021
- Round 2 Groundwater Monitoring Event – Completed in February 2022
- Round 3 Groundwater Monitoring Event – Completed in May 2022
- Round 4 Groundwater Monitoring Event – Completed in August 2022

The sampling locations, procedures, frequency and chemical analysis that were used for the quarterly groundwater monitoring are summarized in the following sections. Groundwater sampling, quality assurance (QA) and quality control (QC) procedures presented in the Post-Interim Action Construction Groundwater Monitoring Plan were followed with the exception of monitoring well MW-2A, which was installed later than the other monitoring wells. A summary of monitoring well installation activities can be found below. Subsequently, MW-2A was not sampled during the Round 1 Groundwater Monitoring Event, but groundwater samples were collected at this location for the three remaining groundwater monitoring events.

2.1. Monitoring Well Network

In accordance with the Post-Interim Action Construction Groundwater Monitoring Plan, existing monitoring wells MW-3, MW-4 and MW-8 and a new monitoring wells MW-1A, MW-2A, MW-13, MW-14 and MW-15 were utilized to evaluate groundwater conditions at the Site. The monitoring well locations are shown relative to the Site and 2021 Interim Action area on Figure 2.

2.2. Monitoring Well Installation and Development

2.2.1. Underground Utility Locate

Prior to drilling, a Washington State “One-Call” and private underground utility locate was conducted in the area of the proposed boring locations to identify any subsurface utilities and/or potential underground physical hazards.

2.2.2. Archeological Monitoring

Based on the Site cultural resources consultation completed by Ecology, DAHP required that an archeological monitor be present during ground disturbance activities. During drilling activities for well installations, a representative from Columbia Geotechnical Associates (Columbia; project archeologist) was present to observe soil encountered from each boring for evidence of potential cultural resources in accordance with the procedures outlined in the IAWP. Cultural resources observed during the monitoring well installations were documented by the archeologist, and appropriate notifications and consultations with Washington State Department of Archaeology and Historic Preservation (DAHP) and the Samish, Swinomish and Lummi Tribes were completed. A report was prepared by the archaeologist documenting cultural resources discoveries and submitted to the DAHP WISAARD database¹ (CGA 2021).

Based on the findings, the register for DAHP has been updated with cultural resources monitoring results to document current Site conditions.

2.2.3. Monitoring Well Installation

Monitoring wells MW-1A, MW-13, MW-14, and MW-15 were installed between October 20 and 21, 2021 in general accordance with the Post-Interim Action Construction Groundwater Monitoring Plan. Construction logs for the newly installed monitoring wells are attached. Monitoring well MW-2A was later installed on February 3, 2022. Well construction logs for new and existing monitoring wells sampled as part of the post-interim action groundwater monitoring activities are presented in Appendix A. Monitoring well locations (both new and existing) are shown relative to the Site and 2021 Interim Action area on Figure 2.

2.2.4. Well Development

Prior to sampling, newly installed monitoring wells were developed to remove water that may have been introduced during drilling, stabilize the filter pack and formation materials surrounding the well screen, and restore the hydraulic connection between the well screen and the surrounding soil. The well screen intervals were gently surged with a decontaminated surge block and purged of water. Development continued until a minimum of five casing volumes of water were removed and the turbidity of the discharged water was relatively low. Water removed from the wells during development activities was transferred to 55-gallon drums for temporary storage pending off-site disposal at a permitted facility.

¹ Per RCW 42.56.300 this report has not been included in this report because it contains maps and information identifying the location of archeological sites.

Water generated during well development activities was stored on Site in a secured and labeled 55-gallon drum. Disposal of investigation derived waste is further discussed below.

2.2.5. Surveying

GeoEngineers subcontracted Pacific Surveying & Engineering, Inc. to survey the monitoring well horizontal coordinates and elevations of the well monument and the top of the well casing. The casing elevations for new and existing monitoring wells are summarized in Table 1.

2.2.6. Disposition of Investigation-Derived Materials

Soil cuttings, well development water, purge water and decontamination water generated during monitoring well installation and sampling activities were placed in secured and labeled 55-gallon drums pending transport from the Site to a permitted disposal facility.

Incidental waste generated during sampling activities included items such as gloves, plastic sheeting, sample tubing, paper towels and similar expended and discarded field supplies. These materials were considered *de minimis* and were transferred from the Property for landfill disposal trash receptacle at GeoEngineers' office.

2.3. Groundwater Sampling and Analysis

During each monitoring event, groundwater in shoreline monitoring wells (MW-1A, MW-2A, MW-3 and MW-8) were sampled on a daytime ebb tide (i.e., outgoing) or near the low tide on the day of sampling. Prior to sampling, groundwater levels were measured from the top of each surveyed well casing rim to the nearest 0.01 foot using a decontaminated electric water level indicator (e-tape). Decontamination procedures are described in the RI/FS Work Plan (GeoEngineers 2017). The measured water levels for each monitoring event are summarized in Table 1.

Groundwater samples were obtained using low-flow/low-turbidity sampling techniques during each monitoring event to minimize the suspension of sediment in groundwater samples. Using a peristaltic pump, groundwater was pumped from the well at a rate not exceeding 0.5 liter per minute through dedicated polyethylene tubing with the end positioned at the approximate midpoint of the saturated screened interval. A YSI ProQuatro water quality meter with flow-through-cell was used to monitor the following parameters during purging:

- Acidity (pH);
- Electrical conductivity (EC);
- Turbidity;
- Dissolved oxygen (DO);
- Temperature;
- Total dissolved solids (TDS);
- Oxygen reduction potential (ORP); and
- Salinity.

Collection of water samples began once these parameters were observed to vary by less than 10 percent on three consecutive measurements. The stabilized field measurements for each monitoring event are summarized in Table 1.

2.3.1. Groundwater Conditions

Based on the measured groundwater elevations and previous groundwater investigations, the predominant groundwater flow direction across the Site is to the north and west toward the Guemes Channel. During the post-interim action groundwater monitoring activities, groundwater elevations across the Site ranged between 5.79 and 10.44 feet (North American Vertical Datum [NAVD] 1988) with an average wet season elevation of 7.83 feet and dry season elevation of 6.81 feet. Groundwater elevations measured during each sampling event are summarized in Table 1.

2.3.2. Analytical Testing

Groundwater samples collected during the quarterly groundwater monitoring events were submitted to OnSite Environmental, Inc. in Redmond, Washington for the following parameters:

Geochemical Parameters

- Total alkalinity by SM 2420 B-97;
- Ferrous iron by SM 3500-Fe B-97;
- Nitrate and sulfate by United States Environmental Protection Agency (EPA) 300.0;
- Dissolved manganese by EPA 6020A; and
- Dissolved methane by EPA RSK-175.

Chemical Parameters

- Total and dissolved MTCA metals including arsenic, cadmium, chromium, lead, and mercury by EPA Method 6000/7000 series;
- Gasoline-range petroleum hydrocarbons by Ecology Method NWTPH-Gx;
- Diesel- and heavy oil-range petroleum hydrocarbons by Ecology Method NWTPH-Dx with and without the silica gel cleanup preparation method; and
- Volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX), n-hexane, Methyl tert-butyl ether (MTBE), Ethylene Dibromide (EDB) and Ethylene Dichloride (EDC) by EPA Method 8260.

2.3.3. Results

The analytical results for the post-interim action groundwater monitoring events (Round 1 through Round 4), as well as historical groundwater data (dating back to 2014) are presented in Table 1.

Groundwater samples were submitted for analysis of diesel- and heavy oil-range petroleum hydrocarbons with and without the acid silica gel cleanup preparation. Analytical results for diesel- and heavy-oil range petroleum hydrocarbons with the acid silica gel cleanup prepared found no detections of petroleum hydrocarbons. The discussion of the diesel-range hydrocarbon results below is focused on the non-acid silica gel cleanup data.

Chemical analytical results for the four rounds of post-interim action groundwater monitoring wells are as follows.

- **MW-1A.** Diesel-range petroleum hydrocarbons were detected at a concentration of 650 micrograms per liter ($\mu\text{g/L}$), greater than the groundwater preliminary screening level (PSL) of 500 $\mu\text{g/L}$, during the October 2021 sampling event. However, during subsequent monitoring events, the diesel-range petroleum hydrocarbons were not detected greater than the PSLs at MW-1A. Gasoline- and heavy oil-range petroleum hydrocarbons, VOCs and total and dissolved metals either were not detected or were detected at concentrations less than the PSLs.
- **MW-2A.** Exceedances of the PSLs were not observed during post-interim action quarterly groundwater monitoring events.
- **MW-3.** Diesel and/or heavy oil-range petroleum hydrocarbons were detected at concentrations of 580 $\mu\text{g/L}$ and 600 $\mu\text{g/L}$, greater than the groundwater PSL of 500 $\mu\text{g/L}$, during the October 2021 and February 2022 monitoring events, respectively. In addition, heavy oil-range petroleum hydrocarbons were detected at concentrations of 530 $\mu\text{g/L}$, slightly greater than the groundwater PSL of 500 $\mu\text{g/L}$, during the August 2022 monitoring event. Gasoline-range petroleum hydrocarbons, VOCs and total and dissolved metals either were not detected or were detected at concentrations less than the PSLs.
- **MW-4.** Exceedances of the PSLs were not observed during post-interim action quarterly groundwater monitoring events.
- **MW-8.** Diesel-range petroleum hydrocarbons were detected at concentrations ranging between 530 $\mu\text{g/L}$ and 700 $\mu\text{g/L}$, greater than the groundwater PSL of 500 $\mu\text{g/L}$, during each quarterly monitoring event. Heavy oil-range petroleum hydrocarbons were detected at concentrations of 730 $\mu\text{g/L}$ and 530 $\mu\text{g/L}$, greater than the groundwater PSL of 500 $\mu\text{g/L}$, during the February and August 2022 groundwater monitoring events, respectively. In addition, benzene was detected greater than the PSL of 2.4 $\mu\text{g/L}$ during each quarterly monitoring event (concentrations ranging from 6.3 $\mu\text{g/L}$ to 19 $\mu\text{g/L}$) while n-hexane was detected at a concentration of 8.4 $\mu\text{g/L}$, exceeding the PSL of 8 $\mu\text{g/L}$, during the May 2022 groundwater monitoring event. N-hexane was detected at a concentration of 8.4 $\mu\text{g/L}$ at MW-8, exceeding the PSL of 8.0 $\mu\text{g/L}$, during the 3rd Round of post-Interim Action groundwater monitoring in May 2022. This is an isolated occurrence with n-hexane concentrations ranging from not detected to 4.4 $\mu\text{g/L}$ since November 2017. Gasoline-range petroleum hydrocarbons, VOCs other than benzene and n-hexane and total and dissolved metals either were not detected or were detected at concentrations less than the PSLs.
- **MW-13.** Heavy oil-range petroleum hydrocarbons were detected at concentrations of 560 $\mu\text{g/L}$ and 630 $\mu\text{g/L}$, greater than the PSL of 500 $\mu\text{g/L}$, during the October 2021 and August 2022 groundwater monitoring events, respectively. In addition, benzene was detected at concentrations greater than the PSL of 2.4 $\mu\text{g/L}$ during each quarterly monitoring event (concentrations ranging from 2.7 $\mu\text{g/L}$ to 4.0 $\mu\text{g/L}$). Gasoline- and diesel-range petroleum hydrocarbons, VOCs other than benzene and total and dissolved metals either were not detected or were detected at concentrations less than the PSLs.
- **MW-14.** Exceedances of the PSLs were not observed during post-interim action quarterly groundwater monitoring events.
- **MW-15.** Concentrations of diesel- and heavy oil-range petroleum hydrocarbons were detected at concentrations greater than PSLs of 500 $\mu\text{g/L}$ during each monitoring event. Diesel-range petroleum hydrocarbon concentrations ranged from 1,200 $\mu\text{g/L}$ to 1,600 $\mu\text{g/L}$. Heavy oil-range petroleum

hydrocarbon concentrations ranged from 520 µg/L to 1,100 µg/L. Gasoline-range petroleum hydrocarbons, VOCs and total and dissolved metals either were not detected or were detected at concentrations less than the PSLs.

Figures 3 through 6 present the quarterly groundwater monitoring results for metals (dissolved and total), gasoline-range petroleum hydrocarbons, diesel- and heavy oil-range petroleum hydrocarbons (without acid silica gel cleanup) and VOCs, respectively. Trend plots in which contaminants of concern were detected at concentrations greater than the PSL during the post-interim action groundwater monitoring and prior to the 2021 Interim Action are presented on Figures 7 and 8. A description of contaminant trends over time are further discussed below.

2.3.4. Trend Analysis

Figures 7 and 8 present trend plots for gasoline-range petroleum hydrocarbons and benzene, and diesel- and heavy oil-range petroleum hydrocarbons (without acid silica gel cleanup), respectively. These trend plots include historical (i.e., pre-interim action) and post-interim action groundwater monitoring data. The trend plots for gasoline-range petroleum hydrocarbons and benzene indicate stable and/or decreasing contaminant concentrations in groundwater over time. The trend plots for diesel- and heavy oil-range petroleum hydrocarbons at monitoring well locations MW-1/1A, MW-2/2A, MW-3 and MW-4 show that contaminant concentrations in groundwater are generally lower following the Interim Action completed in 2020. At monitoring wells MW-8 and MW-13 through MW-15, diesel- and heavy oil-range petroleum hydrocarbon concentrations are generally consistent. Monitoring wells with residual diesel- and heavy oil-range petroleum hydrocarbons in groundwater (MW-8, MW-13 and MW-15) exceed PSLs in areas where sidewall excavation samples indicated that petroleum related contamination was left in-place. Post-interim action groundwater conditions appear to be seasonal in nature with increased contaminant concentrations during the dry season monitoring events (August and October) vs the wet season monitoring event (February and May).

Total and dissolved metals have resulted in concentrations below PSL since 2014 with one exception of an isolated exceedance of total lead in 2017 (at a concentration of 3.75 µg/L at MW-4, exceeding the PSL of 2.1 µg/L). Analysis of VOCs apart from benzene have resulted in concentrations below PSLs since 2014 with the exception of n-hexane in MW-8 in May 2022 as noted above.

2.3.5. Geochemical Parameter Evaluation

Field parameter measurements (dissolved oxygen, redox potential, pH, specific conductivity and temperature) and geochemical parameters analyzed (ferrous iron, nitrate, sulfate, alkalinity, methane and dissolved manganese) provide an indication of whether site conditions support the biodegradation of organic compounds (i.e., petroleum hydrocarbons).

Field and geochemical parameters generally indicate decreased dissolved oxygen, redox potential and sulfate concentrations as well as increase ferrous iron and methane concentrations in monitoring wells with diesel- and heavy oil-range petroleum hydrocarbons exceeding the PSL. Alkalinity and nitrate concentrations are similar between monitoring wells with diesel- and heavy oil-range petroleum hydrocarbons exceeding the PSL and monitoring wells in which diesel- and heavy oil-range petroleum hydrocarbons are not detected or below the PSL. Overall, these results suggest that active biodegradation is occurring at the Site where petroleum contamination is present. However, additional monitoring would

be required to further evaluate natural attenuation performance and whether these processes are sufficient to bring the Site into compliance with the cleanup standards within a reasonable timeframe.

2.3.6. Work Plan Deviations and Quality Control/Quality Assurance

Deviations from the Post-Interim Action Groundwater Monitoring Work Plan were not observed during the quarterly groundwater monitoring activities other than the installation and subsequent monitoring of MW-2A as described above.

In accordance with Compliance Monitoring and Quality Assurance Project Plan (Appendix F of the IAWP), environmental data, laboratory data presented in Appendix B were subjected to an EPA-defined Stage 2B validation (EPA Document 540-R-08-005; EPA 2009) and were determined to be acceptable for their intended use as qualified. The data validation review is presented in Appendix C.

3.0 CONCLUSIONS

Post-interim action groundwater monitoring was completed between October 2021 and August 2022 in accordance with the Post-Interim Action Groundwater Monitoring Plan and as required by Ecology to evaluate document groundwater conditions at the Site following the Interim Action. Concentrations of diesel- and heavy oil-range petroleum hydrocarbons and/or benzene are present above the PSL in groundwater north and southwest of the 2021 Interim Action area. However, significant reductions in groundwater concentrations are apparent following the Interim Action activities completed in 2020, which indicates that the excavation activities successfully removed hydrocarbon source materials contributing to groundwater impacts. Monitoring wells with persistent groundwater concentrations are located near areas in the excavation where petroleum hydrocarbon-related impacts remain in-place. It is notable that the groundwater samples analyzed with silica gel cleanup did not contain detectable concentrations of diesel oil range petroleum hydrocarbons. Further analysis of the contribution of non-hydrocarbon polar metabolites to the diesel-range concentration will be conducted as part of RI/FS activities. Other contaminants of concern in groundwater either were not detected or were detected at concentrations less than the Site PSLs.

4.0 LIMITATIONS

This report has been prepared for the exclusive use of the Port of Anacortes, their authorized agents and regulatory agencies in their evaluation of the Quiet Cove Site in Anacortes, Washington. Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

No other party may rely on the product of our services unless we agree in advance and in writing to such reliance. Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

5.0 REFERENCES

GeoEngineers, Inc., 2017. Final Remedial Investigation/Feasibility Study Work Plan (RI/FS Work Plan); Quiet Cove Property; Anacortes, WA; Ecology Agreed Order No. DE 11346. GEI No. 5147-024-03, dated January 25, 2017.

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Table 1
Post-Interim Action Groundwater Field Parameters, Groundwater Levels and Chemical Analytical Data
 Quiet Cove Site
 Anacortes, Washington

Sample Location ¹	Sample Identification	Preliminary Screening Level ²	MW-1					MW-1A							
			MW-1_7.1.14	MW-1_110917	MW-1_031918	MW-1_103118	MW-1_060519	MW-1A_102521	DUP-1_102521	MW-1A_020222	DUP-1_020222	MW-1A_051922	DUP-1_051922	MW-1A_082422	DUP-1_082422
Date Sampled			07/01/14	11/09/17	03/19/18	10/31/18	06/05/19	10/25/21	10/25/21	02/02/22	02/02/22	05/19/22	05/19/22	08/24/22	08/24/22
Field Measured Parameters															
Top of Casing Elevation ³ (feet NAVD88)	NE	--	11.91	11.91	11.91	--	12.49	12.49	12.49	--	12.49	--	12.49	--	--
Depth to Groundwater ⁴ (feet)	NE	--	3.93	4.56	4.35	--	4.26	4.26	4.76	--	4.99	--	5.62	--	--
Groundwater Elevation (feet NAVD88)	NE	--	7.98	7.35	7.56	--	8.23	8.23	7.73	--	7.50	--	6.87	--	--
pH	NE	--	7.46	5.89	6.33	--	6.67	6.67	7.02	--	6.42	--	6.33	--	--
Conductivity (µS/cm)	NE	--	195	132	162.90	--	0.55	0.55	0.46	--	0.44	--	0.46	--	--
Turbidity (NTU)	NE	--	4.0	3.3	10.0	--	4.89	4.89	3.50	--	2.01	--	0.60	--	--
Dissolved Oxygen (mg/l)	NE	--	1.27	1.53	2.99	--	0.14	0.14	0.53	--	1.31	--	0.32	--	--
Temperature (°C)	NE	--	11.5	8.0	13.3	--	14.3	14.3	10.4	--	11.0	--	14.2	--	--
Total Dissolved Solids (mg/l)	NE	--	171.0	126.7	136.0	--	448.5	448.5	408.6	--	389.8	--	372.6	--	--
Oxidation Reduction Potential (mV)	NE	--	113.9	39.2	31.4	--	-35.1	-35.1	20.9	--	19.8	--	24.9	--	--
Salinity (ppt)	NE	--	0.13	0.09	0.10	--	0.34	0.34	0.31	--	0.30	--	0.28	--	--
Geochemical Parameters															
Alkalinity as CaCO ₃ (mg/L as CaCO ₃)	NE	--	--	--	69	124	310	300	280	280	270	280	270	270	270
Iron, Ferrous, Fe+2 (mg/L)	NE	--	--	--	0.598	1.21	2.38 J	2.48	2.86	3.1	2.56	2.61	2.67	3.99 J	3.99 J
Nitrate (mg/L)	NE	--	--	--	0.501	0.100 U	0.025 U	0.025 U	0.549 J	0.1 U	0.5 U	0.5 U	0.1 U	0.135 J	0.135 J
Sulfate (mg/L)	NE	--	--	--	25.8	4.05	7.14	7.38	16.6	16.9	9.55	9.27	8.28	8.25	8.25
Methane (µg/L)	NE	--	--	--	264	1,000	730	780	800	780	510	540	380	400	400
Total Metals by EPA 200.8/1631 (µg/L)															
Arsenic	8 ⁵	--	2.42 J	0.86	--	--	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Cadmium	8.8	--	0.0420 J	0.100 U	--	--	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Chromium	50	--	0.520 J	0.323 J	--	--	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Lead	2.1	--	0.403 J	0.361	--	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Mercury	0.025	--	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dissolved Metals by EPA 200.8/1631 (µg/L)															
Arsenic	8 ⁵	--	1.2	0.614	--	--	3.0 U	3.0 U	3.0 U	3.0 U	3.3 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	--	0.0360 J	0.100 U	--	--	4.0 U	4.0 U	4.0 U	4.0 U	4.4 U	4.0 U	4.0 U	4.0 U	4.0 U
Chromium	50	--	0.228 J	0.333 J	--	--	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U
Lead	2.1	--	0.100 U	0.209	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	NE	--	--	--	48.1	102	120	120	100	100	78	73	81	79	79
Mercury	0.025	--	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Petroleum Hydrocarbons by NWTPH-G/Dx (µg/L)															
Gasoline-Range Hydrocarbons	800 ⁶	100 U	100 U	100 U	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Diesel-Range Hydrocarbons	500	860	665 J	388	1,090	614	650	690	310	390	320	300	360	370	370
Heavy Oil-Range Hydrocarbons	500	410 U	200 U	200 U	359	249	450	600	260	310	270	260	430	490	490
Petroleum Hydrocarbons by NWTPH-Dx with SGC (µg/L)															
Diesel-Range Hydrocarbons	500	--	--	--	100 U	--	200 U	210 U	210 U	210 U	200 U	200 U	200 U	200 U	200 U
Heavy Oil-Range Hydrocarbons	500	--	--	--	200 U	--	200 U	210 U	210 U	210 U	200 U	200 U	200 U	200 U	200 U

Sample Location ¹	Preliminary Screening	MW-1					MW-1A							
		MW-1_7.1.14	MW-1_110917	MW-1_031918	MW-1_103118	MW-1_060519	MW-1A_102521	DUP-1_102521	MW-1A_020222	DUP-1_020222	MW-1A_051922	DUP-1_051922	MW-1A_082422	DUP-1_082422
Date Sampled	Level ²	07/01/14	11/09/17	03/19/18	10/31/18	06/05/19	10/25/21	10/25/21	02/02/22	02/02/22	05/19/22	05/19/22	08/24/22	08/24/22
Volatile Organic Compounds (VOCs) by EPA 8360 (µg/L)														
Benzene	2.4	1 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	130	1 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	520	1 U	0.20 U	0.20 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene, m-, p-	NE	--	--	--	--	--	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylene, o-	NE	--	--	--	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Xylenes	310	1 U	0.40 U	0.40 U	--	--	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromoethane (EDB)	0.3	--	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane (EDC)	4.20	--	0.20 U	0.20 U	--	--	0.35 U	0.35 U	0.20 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Hexane	8	--	0.20 U	0.20 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl t-butyl ether (MTBE)	610	--	0.50 U	0.50 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes:

¹ Sample locations are shown on Figure 2.

² Preliminary screening levels referenced from the Post Interim Action Construction Groundwater Monitoring Plan (GeoEngineers 2021).

³ Casing elevation referenced to surveys completed by Sound Development Group (October 2017) or Pacific Surveying and Engineering, Inc. (March 2022). Vertical Datum is referenced to NAVD88 (US Survey Feet Units).

⁴ Depth measured from top of casing.

⁵ The preliminary screening level for arsenic has been updated based on Ecology Publication 14-09-044 for Natural Background Groundwater Arsenic Concentrations in Washington State (Ecology 2022) for the Puget Sound Region.

⁶ Preliminary screening level for gasoline-range petroleum hydrocarbons is 800 µg/L when benzene is present and 1,000 µg/L when not present.

NTU = Nephelometric Turbidity Unit

mV = millivolt

C = Celsius

ppt = parts per thousand

mg/L = milligram per liter

µg/L = microgram per liter

µS/cm = microseimens per centimeter

NE = Not Established

SGC = Silica Gel Cleanup

-- = Analyte Not Analyzed

U = The analyte was not detected at a concentration greater than the value identified.

J = The analyte was detected and the detected concentration is considered an estimate.

Yellow shading indicates that the identified concentration is greater than the preliminary screening level.

Blue shading indicates that the practical quantitation limit (PQL) is above screening level.

Bold font type indicates the analyte was detected at the reported concentration.

Table 1
Post-Interim Action Groundwater Field Parameters, Groundwater Levels and Chemical Analytical Data
 Quiet Cove Site
 Anacortes, Washington

Sample Location ¹	Preliminary Screening Level ²	MW-2					MW-2A			MW-3							
		QC-MW-2-7.1.14	MW-2-110917	MW-2-032018	MW-2-103118	MW-2-060419	MW-2A-020722	MW-2A-051722	MW-2A-082322	MW-3-101817	MW-3-032018	MW-3-103018	MW-3-060419	MW-3-102521	MW-3-020722	MW-3-051722	MW-3-082322
Sample Identification	Date Sampled	7/1/2014	11/09/17	03/20/18	10/31/18	06/04/19	02/07/22	05/17/22	08/23/22	10/18/17	03/20/18	10/30/18	06/04/19	10/25/21	02/07/22	05/17/22	08/23/22
Field Measured Parameters																	
Top of Casing Elevation ³ (feet NAVD88)	NE	--	12.01	12.01	12.01	--	12.20	12.20	12.20	12.42	12.42	12.42	--	12.33	12.33	12.33	12.33
Depth to Groundwater ⁴ (feet)	NE	--	5.12	5.48	5.70	--	4.93	4.98	5.42	6.32	5.82	6.21	--	4.91	5.78	5.91	6.12
Groundwater Elevation (feet NAVD88)	NE	--	6.89	6.53	6.31	--	7.27	7.22	6.78	6.10	6.60	6.21	--	7.42	6.55	6.42	6.21
pH	NE	--	7.41	6.21	6.55	--	6.88	6.71	6.14	6.36	6.21	6.61	--	6.51	5.90	5.98	5.68
Conductivity (µS/cm)	NE	--	493	362	452.70	--	0.47	0.53	0.51	740	520	1457.00	--	1.38	0.26	0.35	0.63
Turbidity (NTU)	NE	--	3.8	4.8	7.63	--	17.1	108.0	13.5	9.3	6.8	8.5	--	12.1	14.2	104.0	986.0
Dissolved Oxygen (mg/l)	NE	--	0.28	2.02	1.07	--	3.35	1.43	0.44	0.40	0.11	0.76	--	0.11	1.65	0.71	0.78
Temperature (°C)	NE	--	13.5	9.8	14.1	--	9.3	11.2	15.4	15.0	10.9	15.3	--	15.4	10.8	11.5	15.4
Total Dissolved Solids (mg/l)	NE	--	411.5	332.8	367.0	--	438.3	468.9	409.5	591.5	468.0	1170.0	--	1150.4	231.4	320.0	485.0
Oxidation Reduction Potential (mV)	NE	--	93.2	70.1	-22.4	--	16.2	-8.8	48.6	75.6	64.9	-78.7	--	-8.5	49.8	98.1	121.3
Salinity (ppt)	NE	--	0.31	0.24	0.27	--	0.33	0.35	0.31	0.45	0.35	0.92	--	0.91	0.17	0.23	0.33
Geochemical Parameters																	
Alkalinity as CaCO ₃ (mg/L as CaCO ₃)	NE	--	--	--	253	326	310	320	300	--	--	406	234	190	130	150	180
Iron, Ferrous, Fe+2 (mg/L)	NE	--	--	--	4.21	--	1.01	1.96	5.44	--	--	3.05	--	0.936	0.595	0.978	0.578 J
Nitrate (mg/L)	NE	--	--	--	1.73	0.119	0.584 J	1.12	1.0 UJ	--	--	0.100 U	0.100 U	0.234	1.3 J	0.57 J	1.91 J
Sulfate (mg/L)	NE	--	--	--	20.7	6.11	54.5	43.6	23.3 J	--	--	24.2	635	91	33.5	38.1	40.3 J
Methane (µg/L)	NE	--	--	--	2,830	2,660	220	180	300	--	--	9,880	6,000	710	140	94	220
Total Metals by EPA 200.8/1631 (µg/L)																	
Arsenic	8 ⁵	--	7.69	5.69	--	--	4.6	5.3	5.2	--	1.84	2.51	--	3.7	3.3 U	3.3 U	3.3 U
Cadmium	8.8	--	0.0410 J	0.0350 J	--	--	4.4 U	4.4 U	4.4 U	--	0.0710 J	0.0470 J	--	4.4 U	4.4 U	4.4 U	4.4 U
Chromium	50	--	2.23	1.28	--	--	11 U	11 U	11 U	--	7.32	4.9	--	11 U	11 U	11 U	11 U
Lead	2.1	--	0.261	0.204	--	--	1.1 U	1.1 U	1.1 U	--	0.227	0.276	--	1.1 U	1.1 U	1.1 U	1.1 U
Mercury	0.025	--	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	--	0.020 U	0.020 U	--	0.025 U	0.025 U	0.025 U	0.025 U
Dissolved Metals by EPA 200.8/1631 (µg/L)																	
Arsenic	8 ⁵	--	7.57	4.66	--	--	3.8	4.5	5.1	1.13	1.42	--	--	3.2	3.0 U	3.0 U	3.0 U
Cadmium	8.8	--	0.100 U	0.100 U	--	--	4.0 U	4.0 U	4.0 U	0.100 U	0.100 U	--	--	4.0 U	4.0 U	4.0 U	4.0 U
Chromium	50	--	1.58	0.99	--	--	10 U	10 U	10 U	6.28	4.55	--	--	10 U	10 U	10 U	10 U
Lead	2.1	--	0.100 U	0.0860 J	--	--	1.0 U	1.0 U	1.0 U	0.0950 J	0.113	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	NE	--	--	--	156	238	160	130	180	--	--	292	--	59	24	26	35
Mercury	0.025	--	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U
Petroleum Hydrocarbons by NWTPH-G/Dx (µg/L)																	
Gasoline-Range Hydrocarbons	800 ⁶	110	100 U	100 U	--	--	100 U	100 U	100 U	234	100 U	--	--	100 U	100 U	100 U	100 U
Diesel-Range Hydrocarbons	500	2,100	3,530	1,600	1,210	2,600	210 U	200 U	370	1,940	1,270	1,420	1,080	600	580	420	400
Heavy Oil-Range Hydrocarbons	500	980	1,080	700	616	1,210	210 U	200 U	440	461	279	200 U	202	460	270 J	230	530
Petroleum Hydrocarbons by NWTPH-Dx with SGC (µg/L)																	
Diesel-Range Hydrocarbons	500	--	--	--	100 U	--	210 U	200 U	200 U	--	--	100 U	--	220 U	220 U	200 U	200 U
Heavy Oil-Range Hydrocarbons	500	--	--	--	200 U	--	210 U	200 U	200 U	--	--	200 U	--	220 U	220 U	200 U	200 U

Sample Location ¹	Preliminary Screening	MW-2					MW-2A			MW-3							
Sample Identification		QC-MW-2-7.1.14	MW-2-110917	MW-2-032018	MW-2-103118	MW-2-060419	MW-2A-020722	MW-2A-051722	MW-2A-082322	MW-3-101817	MW-3-032018	MW-3-103018	MW-3-060419	MW-3-102521	MW-3-020722	MW-3-051722	MW-3-082322
Date Sampled	Level ²	7/1/2014	11/09/17	03/20/18	10/31/18	06/04/19	02/07/22	05/17/22	08/23/22	10/18/17	03/20/18	10/30/18	06/04/19	10/25/21	02/07/22	05/17/22	08/23/22
Volatile Organic Compounds (VOCs) by EPA 8360 (µg/L)																	
Benzene	2.4	1 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	130	1 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	520	1 U	0.20 U	0.20 U	--	--	1.0 U	1.0 U	1.0 U	0.04 J	0.20 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Xylene, m-, p-	NE	--	--	--	--	--	0.40 U	0.40 U	0.40 U	--	--	--	--	0.40 U	0.40 U	0.40 U	0.40 U
Xylene, o-	NE	--	--	--	--	--	0.20 U	0.20 U	0.20 U	--	--	--	--	0.20 U	0.20 U	0.20 U	0.20 U
Total Xylenes	310	1 U	0.40 U	0.40 U	--	--	0.40 U	0.40 U	0.40 U	0.25	0.40 U	--	--	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromoethane (EDB)	0.3		0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane (EDC)	4.20		0.20 U	0.20 U	--	--	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	--	--	0.35 U	0.20 U	1.0 U	1.0 U
n-Hexane	8		0.20 U	0.20 U	--	--	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Methyl t-butyl ether (MTBE)	610		0.50 U	0.50 U	--	--	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U

Notes:

¹ Sample locations are shown on Figure 2.

² Preliminary screening levels referenced from the Post Interim Action Construction Groundwater Monitoring Plan (GeoEngineers 2021).

³ Casing elevation referenced to surveys completed by Sound Development Group (October 2017) or Pacific Surveying and Engineering, Inc. (March 2022). Vertical Datum is referenced to NAVD88 (US Survey Feet Units).

⁴ Depth measured from top of casing.

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⁶ Preliminary screening level for gasoline-range petroleum hydrocarbons is 800 µg/L when benzene is present and 1,000 µg/L when not present.

NTU = Nephelometric Turbidity Unit

mV = millivolt

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U = The analyte was not detected at a concentration greater than the value identified.

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Yellow shading indicates that the identified concentration is greater than the preliminary screening level.

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Bold font type indicates the analyte was detected at the reported concentration.

Table 1
Post-Interim Action Groundwater Field Parameters, Groundwater Levels and Chemical Analytical Data
 Quiet Cove Site
 Anacortes, Washington

Sample Location ¹	Preliminary Screening Level ²	MW-4										MW-8							
		QC-MW-4-7.1.14	MW-4-101817	MW-4-031918	MW-4-102918	MW-4-060519	MW-4-102521	MW-4-020322	MW-4-051722	MW-4-082322	MW-4-110917	MW-8-031918	MW-8-102918	MW-8-060519	MW-8-102521	MW-8-020122	MW-8-051822	MW-8-082422	
Date Sampled		7/1/2014	10/18/17	03/19/18	10/29/18	06/05/19	10/25/21	02/03/22	05/17/22	08/23/22	11/09/17	03/19/18	10/29/18	6/5/19	10/25/21	02/01/22	05/18/22	08/24/22	
Field Measured Parameters																			
Top of Casing Elevation ³ (feet NAVD88)	NE	--	12.43	12.43	12.43	--	12.34	12.34	12.34	12.34	13.13	13.13	13.13	--	13.58	13.58	13.58	13.58	
Depth to Groundwater ⁴ (feet)	NE	--	5.68	5.62	5.71	--	4.54	6.30	6.01	5.42	4.60	4.89	5.97	--	4.06	4.50	5.11	5.48	
Groundwater Elevation (feet NAVD88)	NE	--	6.75	6.81	6.72	--	7.80	6.04	6.33	6.92	8.53	8.24	7.16	--	9.52	9.08	8.47	8.10	
pH	NE	--	6.15	6.05	6.04	--	6.49	8.32	6.27	5.95	7.26	6.49	6.78	--	6.91	6.41	6.38	6.33	
Conductivity (µS/cm)	NE	--	860	367	528.00	--	0.63	0.16	0.74	0.98	567	283	324.60	--	0.37	0.36	0.37	0.31	
Turbidity (NTU)	NE	--	5.0	8.5	10.5	--	5.41	14.20	2.98	0.02	5.7	2.7	120.61	--	15.1	9.1	10.20	4.11	
Dissolved Oxygen (mg/l)	NE	--	0.06	0.16	0.90	--	0.55	5.01	0.84	0.28	0.28	0.22	0.87	--	0.16	1.09	0.82	0.50	
Temperature (°C)	NE	--	15.4	11.1	15.2	--	15.5	7.8	11.9	15.1	15.0	10.3	16.0	--	15.8	10.6	12.2	16.9	
Total Dissolved Solids (mg/l)	NE	--	682.5	324.6	423.0	--	500.5	156.6	643.0	786.5	294.5	260.0	259.0	--	295.1	331.4	206.9	240.9	
Oxidation Reduction Potential (mV)	NE	--	66.5	76.9	-82.6	--	70.1	35.1	30.8	-60.1	30.8	19.4	-65.0	--	-40.1	62.9	-29.5	28.7	
Salinity (ppt)	NE	--	0.52	0.24	0.32	--	0.38	0.11	0.49	0.61	0.22	0.19	0.19	--	0.22	0.25	0.21	0.15	
Geochemical Parameters																			
Alkalinity as CaCO ₃ (mg/L as CaCO ₃)	NE	--	--	--	168	192	200	190	240	340	--	--	185	238	210	260	240	180	
Iron, Ferrous, Fe+2 (mg/L)	NE	--	--	--	16.7	12.7	0.152	3.38	10.9	58.8	--	--	5.61	17.7	15	24.3	24.5	10.5	
Nitrate (mg/L)	NE	--	--	--	0.454	0.100 U	1.28	0.5 U	0.5 U	1.05 J	--	--	0.242	0.100 U	0.098	1.14	0.5 U	0.122 J	
Sulfate (mg/L)	NE	--	--	--	72.2	51.8	42.6	6.82	5.33	2.42 J	--	--	10.5	4.23	4.69	9.08	3.34	4.68	
Methane (ug/L)	NE	--	--	--	7,560	2,920	420	1,700	2,300 J	7,200	--	--	1,000	1,920	430	1,000	1,400	910	
Total Metals by EPA 200.8/1631 (µg/L)																			
Arsenic	8 ⁵	--	1.5	1.97	--	--	3.3 U	3.3 U	3.3 U	3.3 U	5.96	6.75	--	--	6.9	6.6	6.8	4.4	
Cadmium	8.8	--	0.500 U	0.118	--	--	4.4 U	4.4 U	4.4 U	4.4 U	0.100 U	0.100 U	--	--	4.4 U	4.4 U	4.4 U	4.4 U	
Chromium	50	--	3.29	0.394 J	--	--	11 U	11 U	11 U	11 U	1.92	1.09	--	--	11 U	11 U	11 U	11 U	
Lead	2.1	--	3.75	0.0850 J	--	--	1.1 U	1.1 U	1.1 U	1.1 U	0.164	0.143	--	--	1.1 U	1.1 U	1.1 U	1.1 U	
Mercury	0.025	--	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U	
Dissolved Metals by EPA 200.8/1631 (µg/L)																			
Arsenic	8 ⁵	--	1.13	1.42	--	--	3.0 U	3.0 U	3.0 U	3.3 U	6.29	3.91	--	--	5.6	3.5	5.3	4.1	
Cadmium	8.8	--	0.100 U	0.100 U	--	--	4.0 U	4.0 U	4.0 U	4.4 U	0.100 U	0.100 U	--	--	4.0 U	4.0 U	4.0 U	4.0 U	
Chromium	50	--	6.28	4.55	--	--	10 U	10 U	10 U	11 U	1.41	1.13	--	--	10 U	10 U	10 U	10 U	
Lead	2.1	--	0.0950 J	0.113	--	--	1.0 U	1.0 U	1.0 U	1.1 U	0.100 U	0.100 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	
Manganese	NE	--	--	--	2,570	1,800	66	1,600	1,400	5,200	--	--	1,130	2,450	2,000	2,500	2,300	1,400	
Mercury	0.025	--	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.020 U	0.020 U	--	--	0.025 U	0.025 U	0.025 U	0.025 U	
Petroleum Hydrocarbons by NWTPH-G/Dx (µg/L)																			
Gasoline-Range Hydrocarbons	800 ⁶	--	510	447	100 U	--	100 U	100 U	100 U	100 U	251	109	117	970	150	120	320 J	290	
Diesel-Range Hydrocarbons	500	--	1,300 J	1,460	293	584	391	210	210 U	260	440	828	455	415	881	530	650	700	570
Heavy Oil-Range Hydrocarbons	500	410 U	285	200 U	200 U	200 U	230	210 U	200 U	350	342	200 U	200 U	264	400	730	380	570	
Petroleum Hydrocarbons by NWTPH-Dx with SGC (µg/L)																			
Diesel-Range Hydrocarbons	500	--	--	--	100 U	--	200 U	210 U	200 U	220 U	--	--	100 U	--	200 U	200 U	200 U	200 U	
Heavy Oil-Range Hydrocarbons	500	--	--	--	200 U	--	200 U	210 U	200 U	220 U	--	--	200 U	--	200 U	200 U	200 U	200 U	

Sample Location ¹	Preliminary Screening	MW-4										MW-8							
		QC-MW-4-7.1.14	MW-4-101817	MW-4-031918	MW-4-102918	MW-4-060519	MW-4-102521	MW-4-020322	MW-4-051722	MW-4-082322	MW-8-110917	MW-8-031918	MW-8-102918	MW-8-060519	MW-8-102521	MW-8-020122	MW-8-051822	MW-8-082422	
Date Sampled	Level ²	7/1/2014	10/18/17	03/19/18	10/29/18	06/05/19	10/25/21	02/03/22	05/17/22	08/23/22	11/09/17	03/19/18	10/29/18	6/5/19	10/25/21	02/01/22	05/18/22	08/24/22	
Volatile Organic Compounds (VOCs) by EPA 8360 (µg/L)																			
Benzene	2.4	1 U	0.11 J	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	5.83	3.03	2.19	13.9	7.4	6.3	19	10	
Ethylbenzene	130	1 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.24	0.20 U	0.06 J	1.51	0.20 U	0.20 U	0.61	0.20 U	
Toluene	520	1 U	0.09 J	0.20 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.54	0.12 J	0.16 J	3.35	1.0 U	1.0 U	1.0 U	1.0 U	
Xylene, m-, p-	NE	--	--	--	--	--	0.40 U	0.40 U	0.40 U	0.40 U	--	--	--	--	0.40 U	0.40 U	0.78	0.45	
Xylene, o-	NE	--	--	--	--	--	0.20 U	0.20 U	0.20 U	0.20 U	--	--	--	--	0.20 U	0.20 U	0.20 U	0.20 U	
Total Xylenes	310	1 U	0.21	0.40 U	--	--	0.40 U	0.40 U	0.40 U	0.40 U	0.64	0.11	0.19	1.56	0.40 U	0.40 U	0.78	0.45	
1,2-Dibromoethane (EDB)	0.3	--	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	
1,2-Dichloroethane (EDC)	4.20	--	0.20 U	0.20 U	--	--	0.35 U	0.20 U	1.0 U	1.0 U	0.20 U	0.15 J	--	--	0.35 U	0.20 U	1.0 U	1.0 U	
n-Hexane	8	--	0.20 U	0.20 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	4.4	1.32	--	--	1.3	1.0 U	8.4	4.3	
Methyl t-butyl ether (MTBE)	610	--	0.50 U	0.50 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	

Notes:

¹ Sample locations are shown on Figure 2.

² Preliminary screening levels referenced from the Post Interim Action Construction Groundwater Monitoring Plan (GeoEngineers 2021).

³ Casing elevation referenced to surveys completed by Sound Development Group (October 2017) or Pacific Surveying and Engineering, Inc. (March 2022). Vertical Datum is referenced to NAVD88 (US Survey Feet Units).

⁴ Depth measured from top of casing.

⁵ The preliminary screening level for arsenic has been updated based on Ecology Publication 14-09-044 for Natural Background Groundwater Arsenic Concentrations in Washington State (Ecology 2022) for the Puget Sound Region.

⁶ Preliminary screening level for gasoline-range petroleum hydrocarbons is 800 µg/L when benzene is present and 1,000 µg/L when not present.

NTU = Nephelometric Turbidity Unit

mV = millivolt

C = Celsius

ppt = parts per thousand

mg/L = milligram per liter

µg/L = microgram per liter

µS/cm = microseimens per centimeter

NE = Not Established

SGC = Silica Gel Cleanup

-- = Analyte Not Analyzed

U = The analyte was not detected at a concentration greater than the value identified.

J = The analyte was detected and the detected concentration is considered an estimate.

 Yellow shading indicates that the identified concentration is greater than the preliminary screening level.

 Blue shading indicates that the practical quantitation limit (PQL) is above screening level.

Bold font type indicates the analyte was detected at the reported concentration.

Table 1
Post-Interim Action Groundwater Field Parameters, Groundwater Levels and Chemical Analytical Data
 Quiet Cove Site
 Anacortes, Washington

Sample Location ¹	Preliminary Screening Level ²	MW-13				MW-14				MW-15			
		MW-13_102521	MW-13_020222	MW-13_051822	MW-13_082422	MW-14_102521	MW-14_020222	MW-14_051822	MW-14_082422	MW-15_102521	MW-15_020322	MW-15_051722	MW-15_082422
Sample Identification	Date Sampled	10/25/21	02/02/22	05/18/22	08/24/22	10/25/21	02/02/22	05/18/22	08/24/22	10/25/21	02/03/22	05/17/22	08/24/22
Field Measured Parameters													
Top of Casing Elevation ³ (feet NAVD88)	NE	11.94	11.94	11.94	11.94	12.14	12.14	12.14	12.14	12.20	11.20	11.20	11.20
Depth to Groundwater ⁴ (feet)	NE	3.91	4.56	4.84	5.31	1.70	4.76	10.05	3.18	4.38	4.78	5.41	5.31
Groundwater Elevation (feet NAVD88)	NE	8.03	7.38	7.10	6.63	10.44	7.38	2.09	8.96	7.82	6.42	5.79	5.89
pH	NE	7.12	7.15	6.57	6.33	7.96	6.67	7.64	6.96	6.23	6.63	6.31	5.81
Conductivity (µS/cm)	NE	0.52	0.37	0.36	0.40	0.51	0.93	0.24	0.29	1.73	1.33	1.51	1.58
Turbidity (NTU)	NE	3.91	4.25	6.39	9.08	14.3	12.8	11.20	4.81	4.44	10.90	4.42	1.75
Dissolved Oxygen (mg/l)	NE	0.16	0.68	0.75	0.58	1.91	1.48	3.83	0.54	0.18	0.52	0.89	0.31
Temperature (°C)	NE	14.1	9.3	10.8	14.4	13.8	10.8	11.4	17.3	14.5	8.6	120.0	17.3
Total Dissolved Solids (mg/l)	NE	429.0	342.6	317.9	326.3	423.0	832.0	204.9	218.1	1384.9	1258.5	1306.5	1202.5
Oxidation Reduction Potential (mV)	NE	-42.3	29.8	-11.8	38.2	137.4	126.8	57.8	87.3	-18.0	47.1	-38.2	-6.4
Salinity (ppt)	NE	0.32	0.26	0.24	0.24	0.32	0.64	0.15	0.16	1.12	0.99	1.03	0.94
Geochemical Parameters													
Alkalinity as CaCO ₃ (mg/L as CaCO ₃)	NE	270	220	110	240	120	100	110	150	570	440	390	450
Iron, Ferrous, Fe+2 (mg/L)	NE	1.66	2.92 J	0.768	3.41	0.1 U	0.29	0.768	1.59	51.2	53.4	52.2	59.2
Nitrate (mg/L)	NE	0.053	0.1 U	1.21	0.150 J	1.55	0.979	1.21	1.0 U	0.025 U	0.415 J	1.0 UJ	1.0 UJ
Sulfate (mg/L)	NE	56.6	40.2	28.1	19.6	176	19	28.1	23	1.48	4.13	5.53 J	6.0 UJ
Methane (ug/L)	NE	440	490	300	920	3.9	28	300	760	10,000	14,000	7,900 J	7,700
Total Metals by EPA 200.8/1631 (µg/L)													
Arsenic	8 ⁵	3.6	3.3 U	6.8	3.3 U	3.3 U	6.2	5.0	4.0	6.2	3.3 U	4.4	6.8
Cadmium	8.8	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Chromium	50	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Lead	2.1	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Mercury	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dissolved Metals by EPA 200.8/1631 (µg/L)													
Arsenic	8 ⁵	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	4.7	3.7	3.2	5.4	3.0 U	4.3	6.8
Cadmium	8.8	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead	2.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	NE	190	150	88	110	320	55	11	150	3,900	4,800	5,300	5,000
Mercury	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Petroleum Hydrocarbons by NWTPH-G/Dx (µg/L)													
Gasoline-Range Hydrocarbons	800 ⁶	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	110 U	240 U	230
Diesel-Range Hydrocarbons	500	470	210	200 U	350	210 U	210 U	200 U	210 U	1,600	1,200	1,400	1,600
Heavy Oil-Range Hydrocarbons	500	560	230	300	630	210 U	210 U	200 U	250	1,100	520	530	1,000
Petroleum Hydrocarbons by NWTPH-Dx with SGC (µg/L)													
Diesel-Range Hydrocarbons	500	200 U	210 U	200 U	200 U	210 U	210 U	200 U	210 U	210 U	210 U	200 U	200 U
Heavy Oil-Range Hydrocarbons	500	200 U	210 U	200 U	200 U	210 U	210 U	200 U	210 U	210 U	210 U	200 U	200 U

Sample Location ¹	Preliminary Screening Level ²	MW-13				MW-14				MW-15			
Sample Identification		MW-13_102521	MW-13_020222	MW-13_051822	MW-13_082422	MW-14_102521	MW-14_020222	MW-14_051822	MW-14_082422	MW-15_102521	MW-15_020322	MW-15_051722	MW-15_082422
Date Sampled		10/25/21	02/02/22	05/18/22	08/24/22	10/25/21	02/02/22	05/18/22	08/24/22	10/25/21	02/03/22	05/17/22	08/24/22
Volatile Organic Compounds (VOCs) by EPA 8360 (µg/L)													
Benzene	2.4	4.0	2.7	3.3	3.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	130	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	520	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene, m-, p-	NE	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylene, o-	NE	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Xylenes	310	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dibromoethane (EDB)	0.3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane (EDC)	4.20	0.44	0.32	1.0 U	1.0 U	0.35 U	0.20 U	1.0 U	1.0 U	0.35 U	0.20 U	1.0 U	1.0 U
n-Hexane	8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl t-butyl ether (MTBE)	610	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes:

- ¹ Sample locations are shown on Figure 2.
- ² Preliminary screening levels referenced from the Post Interim Action Construction Groundwater Monitoring Plan (GeoEngineers 2021).
- ³ Casing elevation referenced to surveys completed by Sound Development Group (October 2017) or Pacific Surveying and Engineering, Inc. (March 2022). Vertical Datum is referenced to NAVD88 (US Survey Feet Units).
- ⁴ Depth measured from top of casing.
- ⁵ The preliminary screening level for arsenic has been updated based on Ecology Publication 14-09-044 for Natural Background Groundwater Arsenic Concentrations in Washington State (Ecology 2022) for the Puget Sound Region.
- ⁶ Preliminary screening level for gasoline-range petroleum hydrocarbons is 800 µg/L when benzene is present and 1,000 µg/L when not present.

NTU = Nephelometric Turbidity Unit

mV = millivolt

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NE = Not Established

SGC = Silica Gel Cleanup

-- = Analyte Not Analyzed

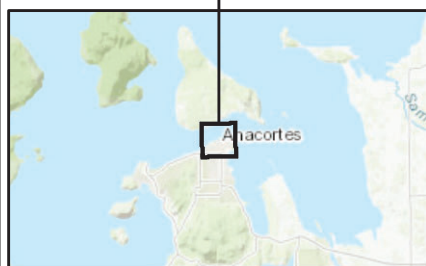
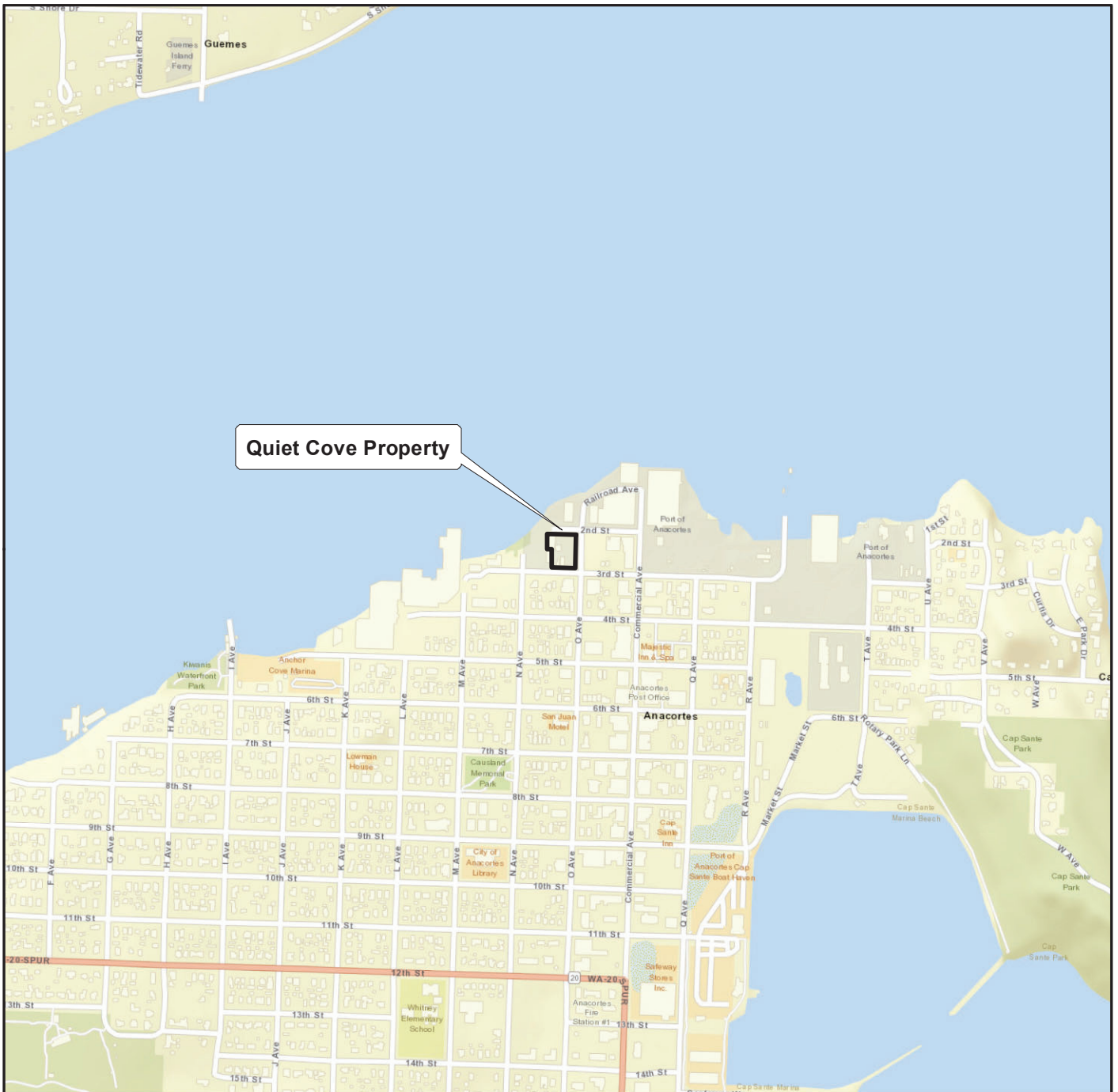
U = The analyte was not detected at a concentration greater than the value identified.

J = The analyte was detected and the detected concentration is considered an estimate.

Yellow shading indicates that the identified concentration is greater than the preliminary screening level.

Blue shading indicates that the practical quantitation limit (PQL) is above screening level.

Bold font type indicates the analyte was detected at the reported concentration.



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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Data Sources: ESRI Data & Maps, Street Data 2013.
 Transverse Mercator, Zone 10 N North, North American Datum 1983
 North arrow oriented to grid north

Vicinity Map	
Quiet Cove Site Anacortes, Washington	
	Figure 1



Legend

- Port of Anacortes Properties at Quiet Cove Site
- 10 Contour (Feet, NAVD 88)
- Interim Action Remedial Excavation Horizontal Limits
- Final Interim Action Excavation Sidewalls with the Presence of Petroleum Hydrocarbon-Related Contamination Exceeding Preliminary Screening Levels
- MW-6 Existing Monitoring Well Location
- MW-2 Monitoring Well Decommissioned During Interim Action Construction
- Post Interim Action Groundwater Monitoring Location
- Inferred groundwater flow direction

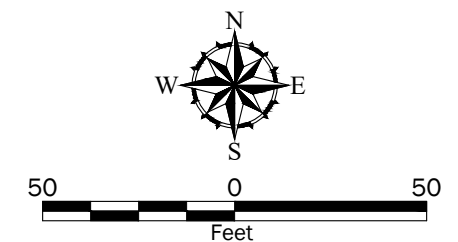
Notes:

1. Interim action excavation limit based on surveys completed by Larry Steele & Associates, Inc. Dated 11/02/2020.
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Data Source: Base survey by Sound Development Group on 10/11/2017
Imagery from Google Earth Pro dated 8/15/2020.

Horizontal Datum: NAD83 Washington State Planes, North Zone, US Foot

Vertical Datum: North American Vertical Datum, 1988, US Foot



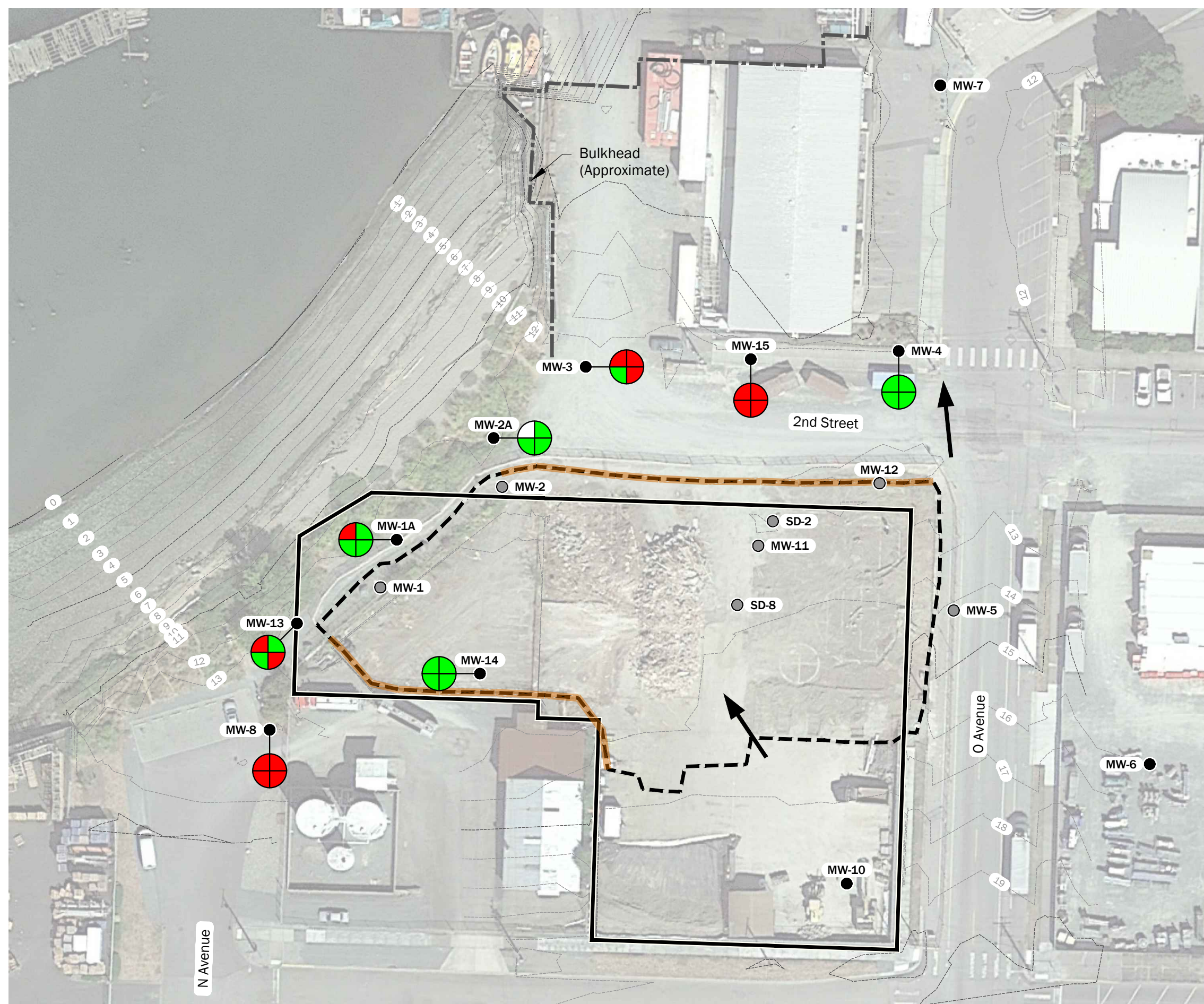
Groundwater Sampling Locations

Quiet Cove Site
Anacortes, Washington



Figure 2

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Legend

- Port of Anacortes Properties at Quiet Cove Site
- 10 Contour (Feet, NAVD 88)
- Interim Action Remedial Excavation Horizontal Limits
- Final Interim Action Excavation Sidewalls with the Presence of Petroleum Hydrocarbon-Related Contamination Exceeding Preliminary Screening Levels
- MW-6 Existing Monitoring Well Location
- MW-2 Monitoring Well Decommissioned During Interim Action Construction
- Inferred groundwater flow direction

Groundwater Analytical Results

- Oct 2021
- Feb 2022
- May 2022
- Aug 2022

- Diesel-range TPH* detected at concentrations less than preliminary screening levels
- Diesel-range TPH* detected at concentrations greater than preliminary screening levels
- Well not sampled

* Diesel-range TPF results are without acid silica gel cleanup preparation.

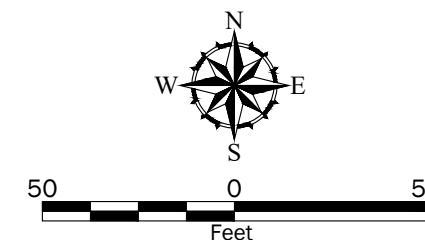
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Horizontal Datum: NAD83 Washington State Planes, North Zone, US Foot

Vertical Datum: North American Vertical Datum, 1988, US Foot

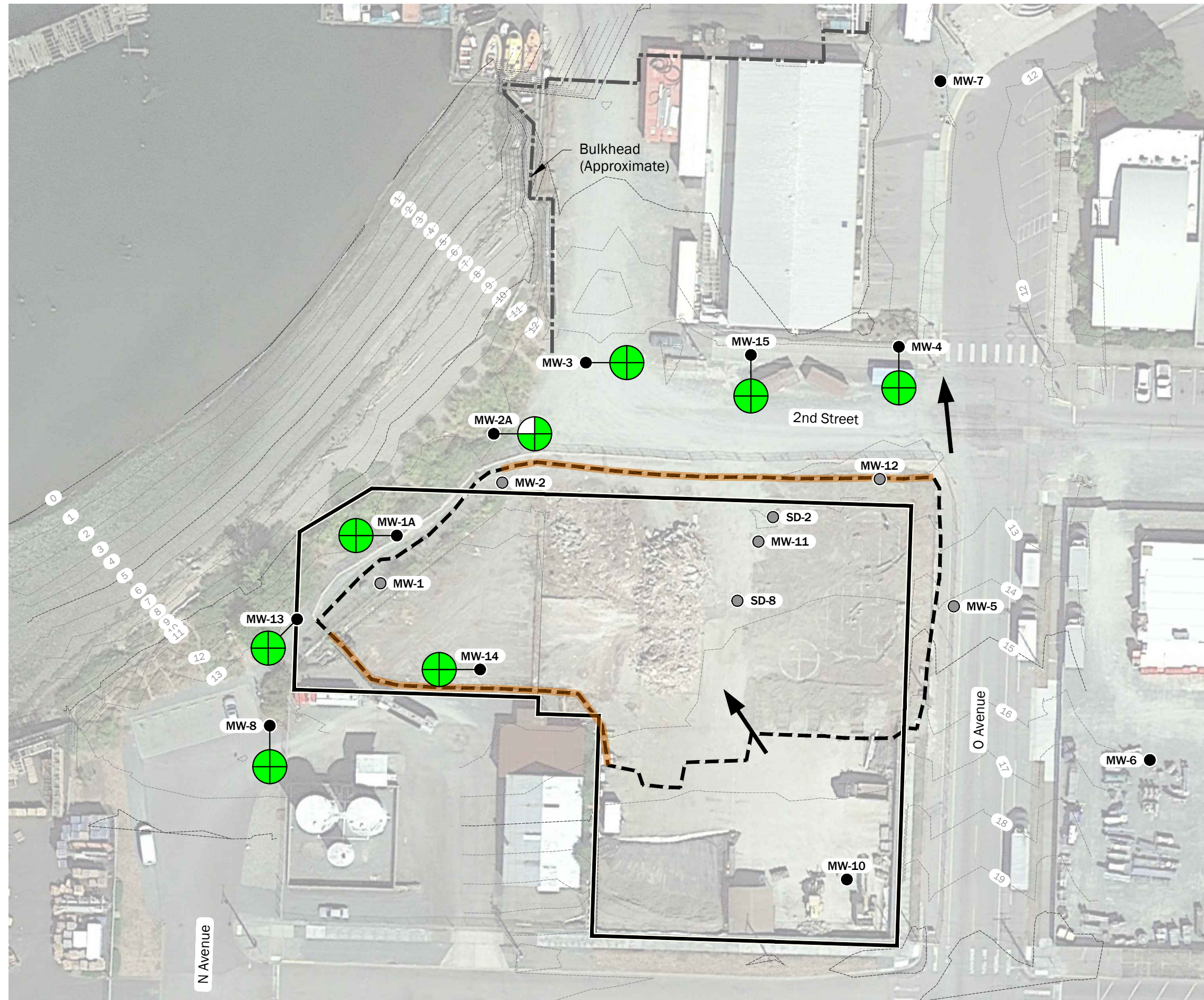


Diesel-Range TPH Groundwater Analytical Results

Quiet Cove Site
Anacortes, Washington



Figure 3



Legend

- Port of Anacortes Properties at Quiet Cove Site
 - 10 Contour (Feet, NAVD 88)
 - Interim Action Remedial Excavation Horizontal Limits
 - Final Interim Action Excavation Sidewalls with the Presence of Petroleum Hydrocarbon-Related Contamination Exceeding Preliminary Screening Levels
 - MW-6 Existing Monitoring Well Location
 - MW-2 Monitoring Well Decommissioned During Interim Action Construction
 - Inferred groundwater flow direction
- Groundwater Analytical Results**
- Oct 2021 Feb 2022
 - May 2022 Aug 2022
- Gasoline-range TPH detected at concentrations less than preliminary screening levels
 - Gasoline-range TPH detected at concentrations greater than preliminary screening levels
 - Well not sampled

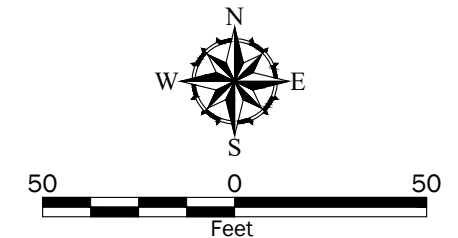
Notes:

1. Interim action excavation limit based on surveys completed by Larry Steele & Associates, Inc. Dated 11/02/2020.
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Imagery from Google Earth Pro dated 8/15/2020.

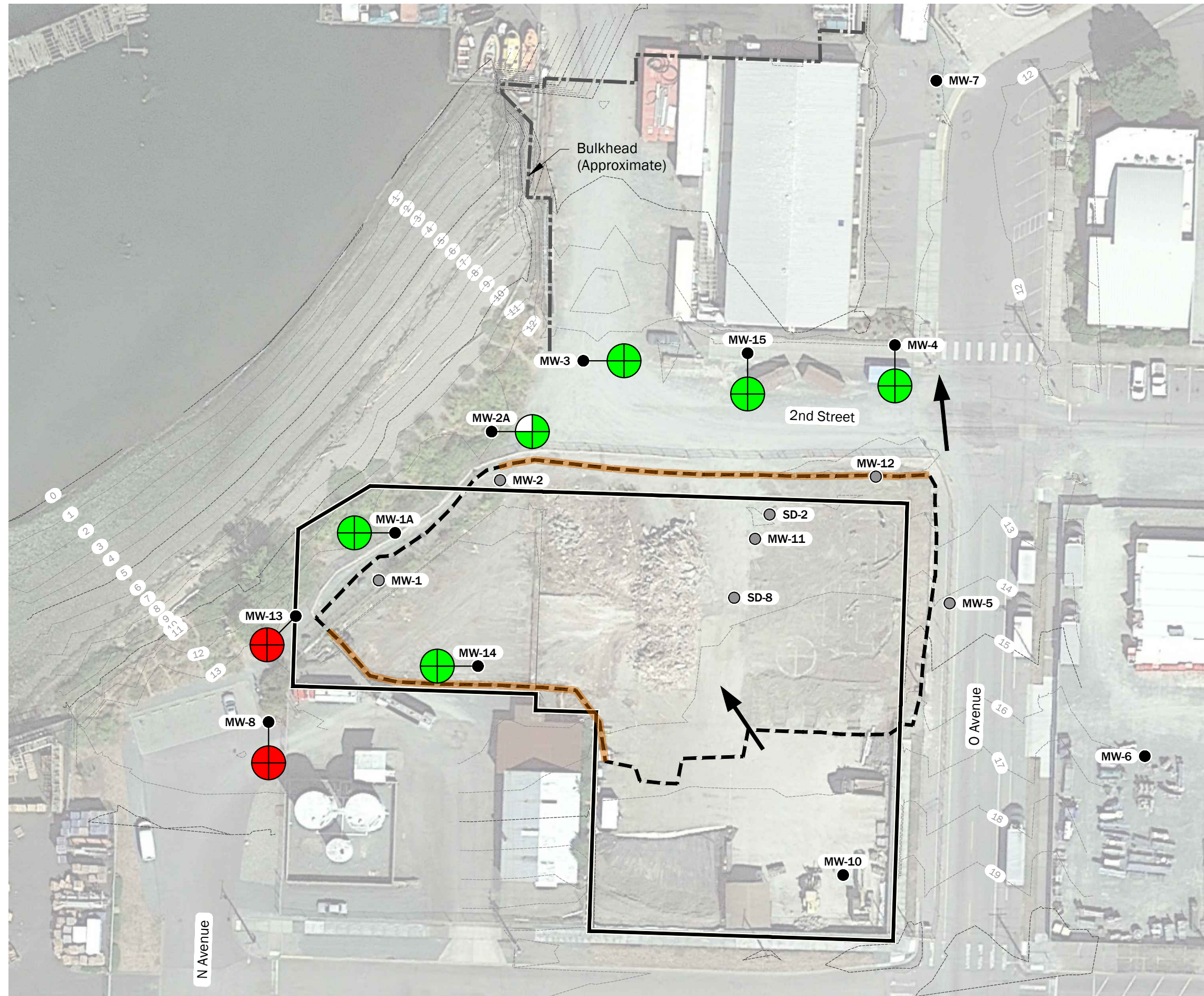
Horizontal Datum: NAD83 Washington State Planes, North Zone, US Foot

Vertical Datum: North American Vertical Datum, 1988, US Foot



Gasoline-Range TPH Groundwater Analytical Results	
Quiet Cove Site Anacortes, Washington	
	Figure 4

P:\5147024\CAD\11 August 2022 GW Monitoring Report\514702411_F03-F06_GW Results.dwg TAB:F05 Date Exported: 10/20/22 - 16:09 by tmichaud



Legend

- Port of Anacortes Properties at Quiet Cove Site
- 10 Contour (Feet, NAVD 88)
- Interim Action Remedial Excavation Horizontal Limits
- Final Interim Action Excavation Sidewalls with the Presence of Petroleum Hydrocarbon-Related Contamination Exceeding Preliminary Screening Levels
- MW-6 Existing Monitoring Well Location
- MW-2 Monitoring Well Decommissioned During Interim Action Construction
- Inferred groundwater flow direction

Groundwater Analytical Results

Oct 2021 Feb 2022

May 2022 Aug 2022

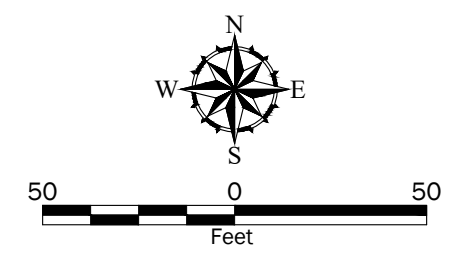
- VOCs detected at concentrations less than preliminary screening levels
- One or more VOC analytes detected at concentrations greater than preliminary screening levels
- Well not sampled

- Notes:**
- Interim action excavation limit based on surveys completed by Larry Steele & Associates, Inc. Dated 11/02/2020.
 - The locations of all features shown are approximate.
 - This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Base survey by Sound Development Group on 10/11/2017
 Imagery from Google Earth Pro dated 8/15/2020.

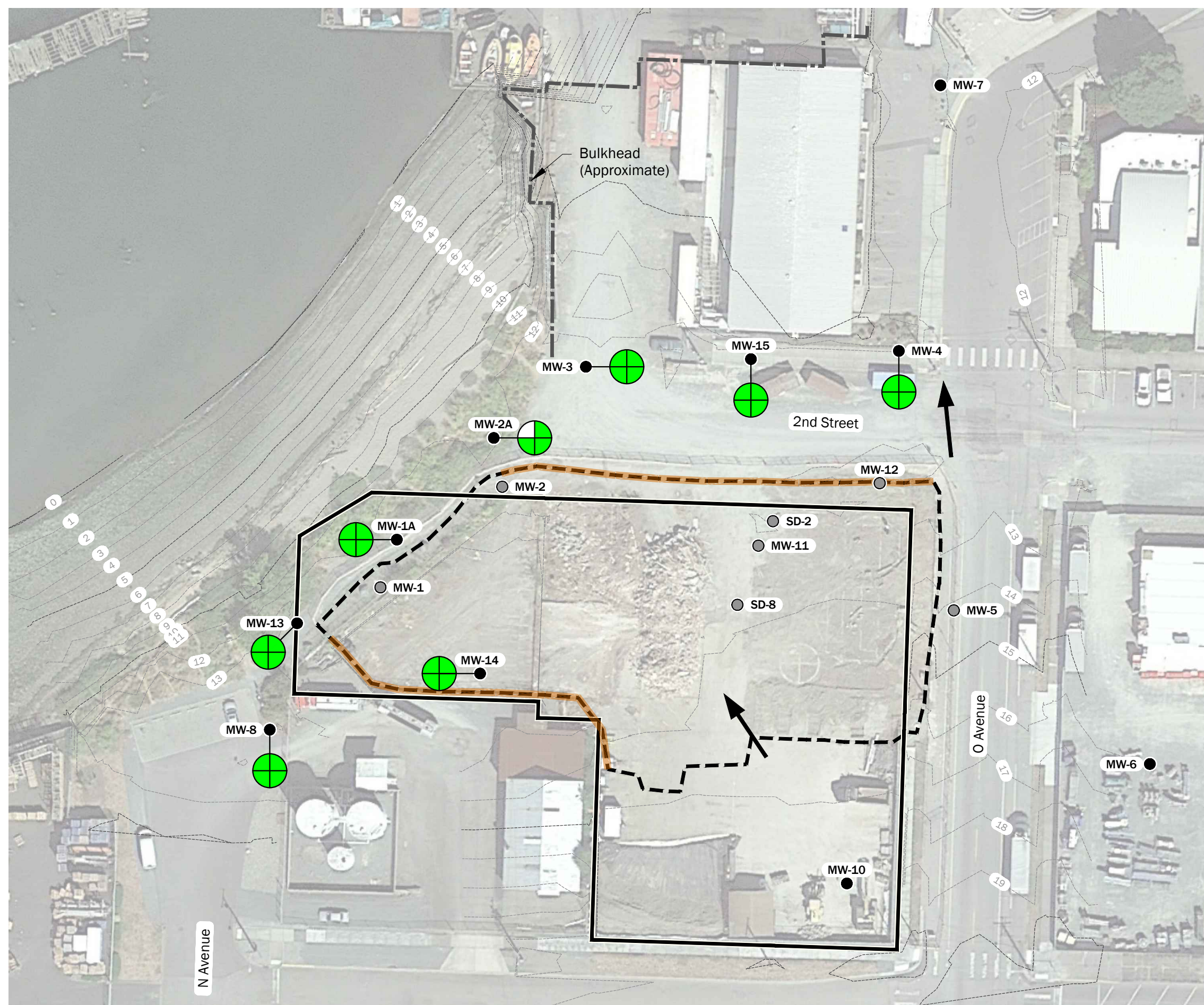
Horizontal Datum: NAD83 Washington State Planes, North Zone, US Foot

Vertical Datum: North American Vertical Datum, 1988, US Foot



VOCs Groundwater Analytical Results	
Quiet Cove Site Anacortes, Washington	
	Figure 5

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Legend

- Port of Anacortes Properties at Quiet Cove Site
- 10 Contour (Feet, NAVD 88)
- Interim Action Remedial Excavation Horizontal Limits
- Final Interim Action Excavation Sidewalls with the Presence of Petroleum Hydrocarbon-Related Contamination Exceeding Preliminary Screening Levels
- MW-6 Existing Monitoring Well Location
- MW-2 Monitoring Well Decommissioned During Interim Action Construction
- Inferred groundwater flow direction

Groundwater Analytical Results

- Oct 2021 Feb 2022
- May 2022 Aug 2022

- Total and dissolved metals detected at concentrations less than preliminary screening levels
- One or more Metal analytes detected at concentrations greater than preliminary screening levels
- Well not sampled

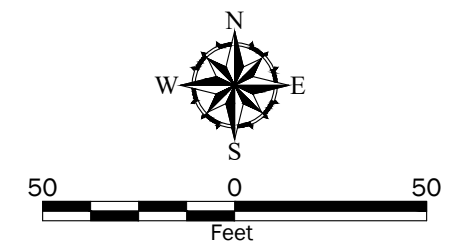
Notes:

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Data Source: Base survey by Sound Development Group on 10/11/2017
Imagery from Google Earth Pro dated 8/15/2020.

Horizontal Datum: NAD83 Washington State Planes, North Zone, US Foot

Vertical Datum: North American Vertical Datum, 1988, US Foot



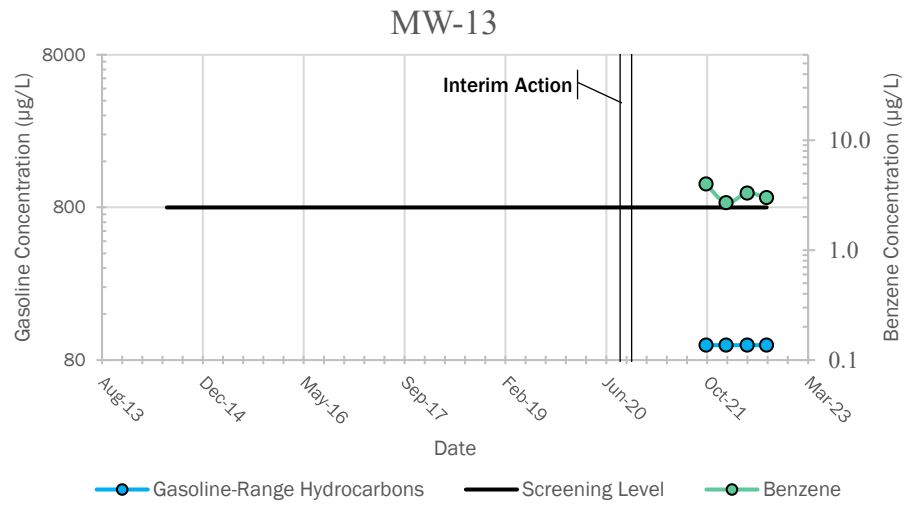
**Total and Dissolved Metals
Groundwater Analytical Results**

Quiet Cove Site
Anacortes, Washington

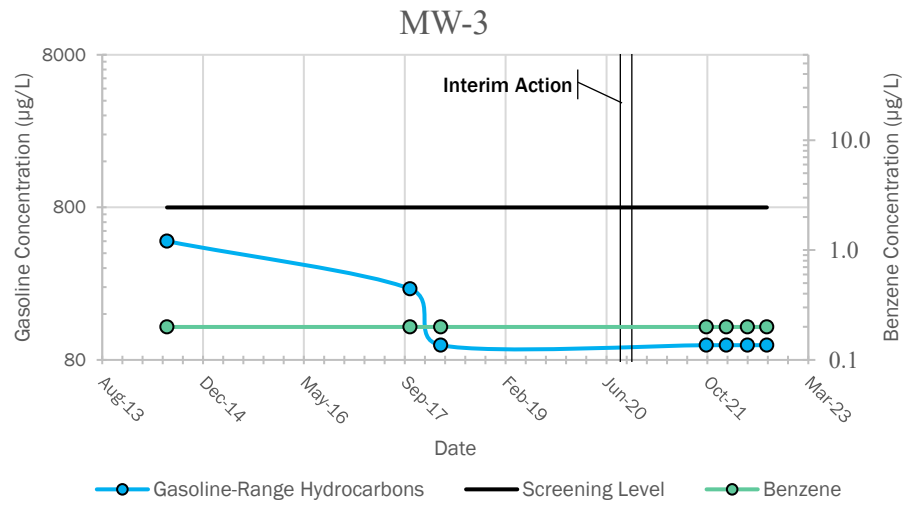


Figure 6

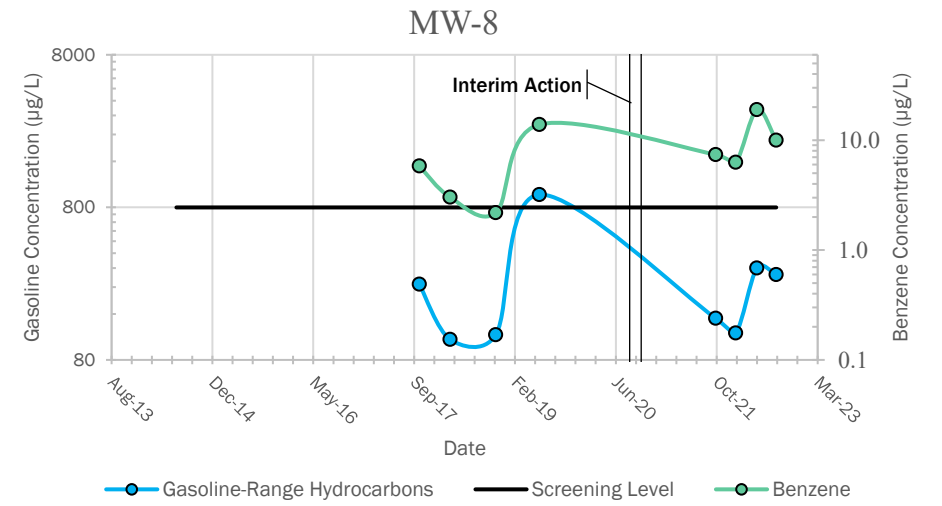
Shoreline Area Monitoring Wells



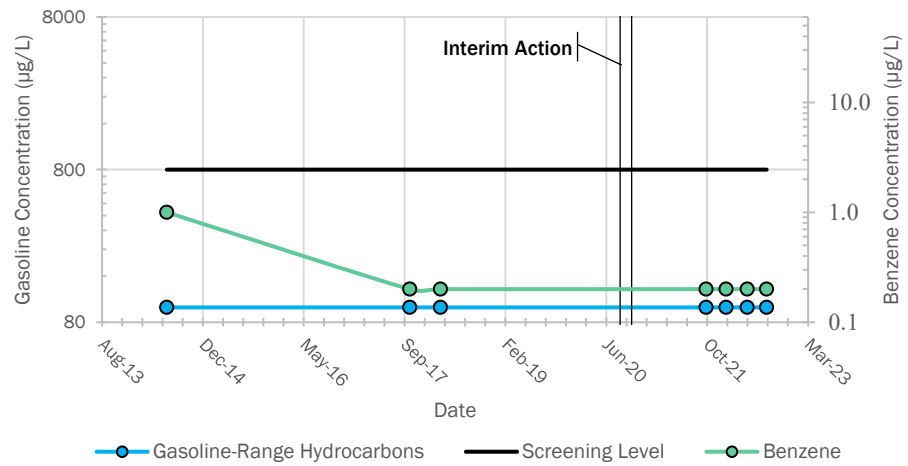
2nd Street Area Monitoring Wells



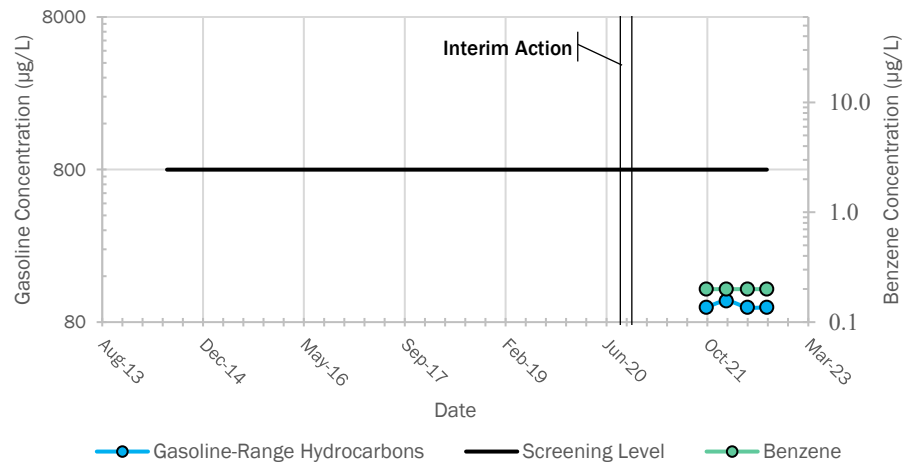
Southern Property Boundary Area Monitoring Wells



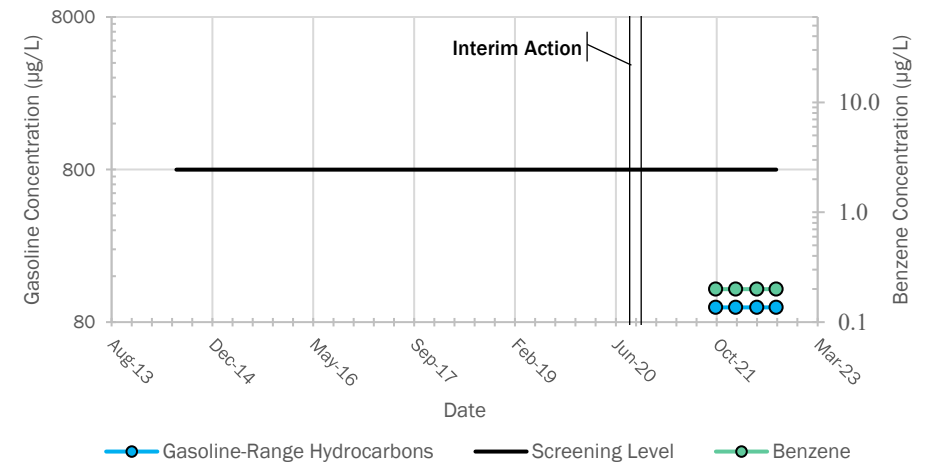
MW-1/1A



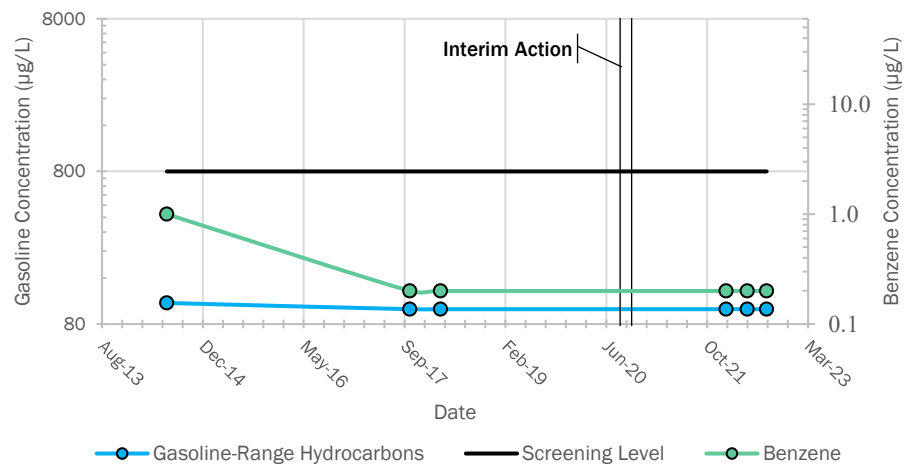
MW-15



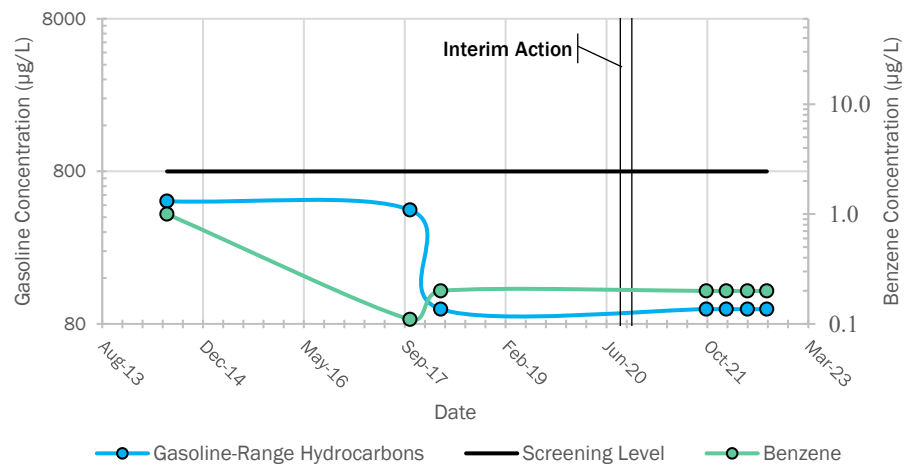
MW-14



MW-2/2A



MW-4



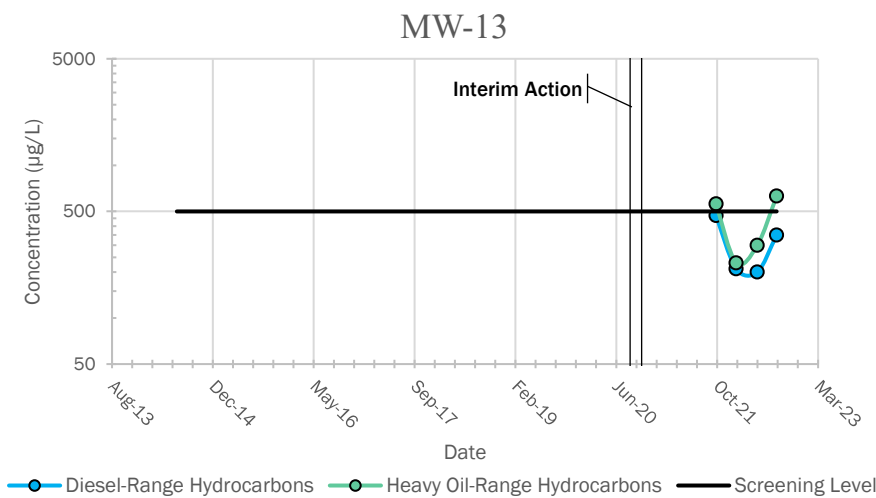
Notes:

1. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

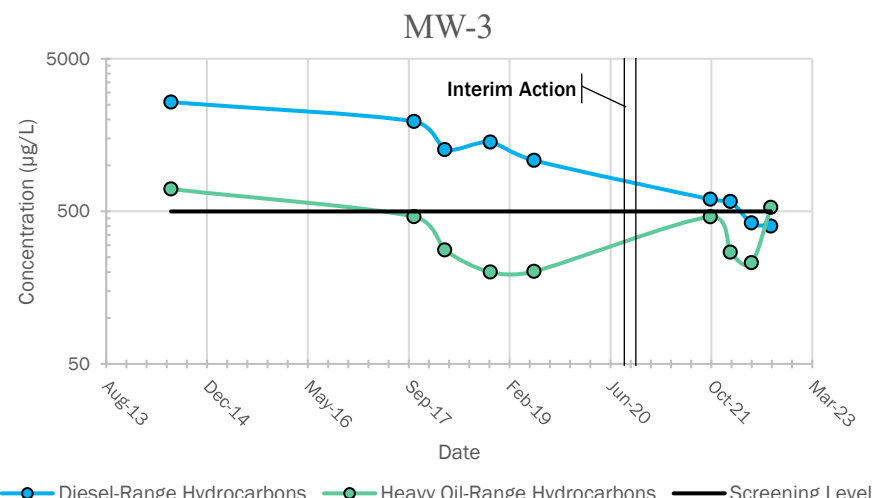
Data Source: Quiet Cove Groundwater Monitoring Data Results.

Groundwater Summary Gasoline-Range Hydrocarbons and Benzene	
Quiet Cove Anacortes, Washington	
	Figure 7

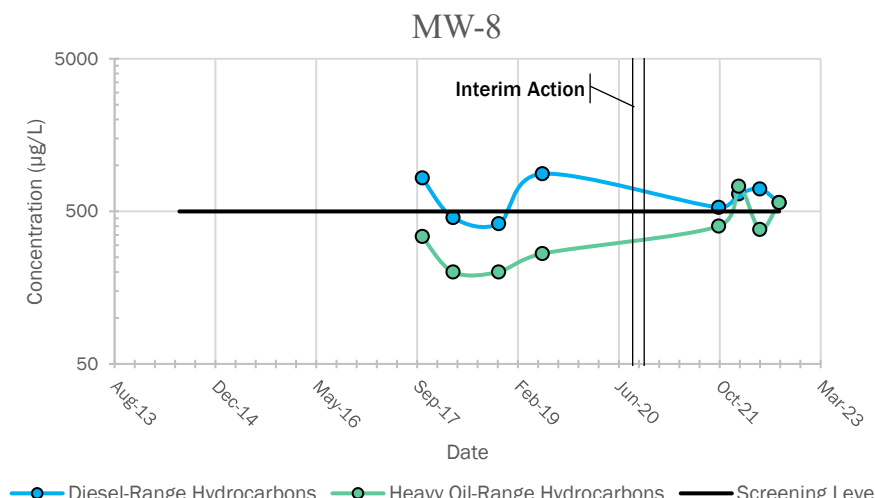
Shoreline Area Monitoring Wells



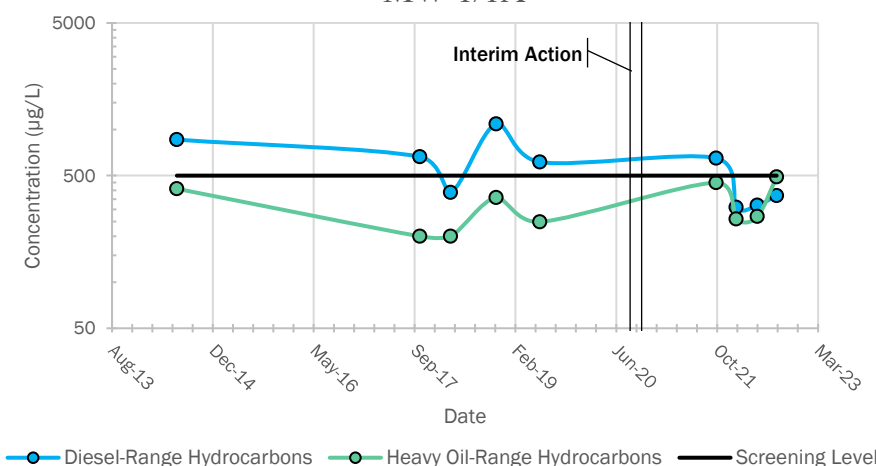
2nd Street Area Monitoring Wells



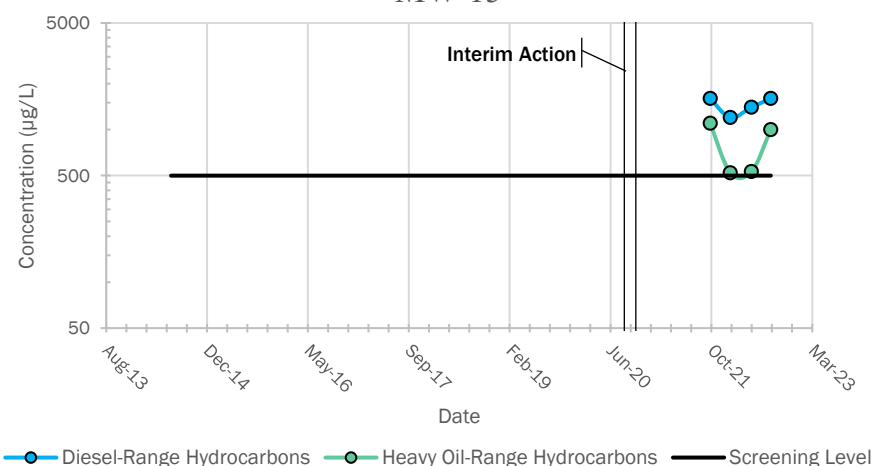
Southern Property Boundary Area Monitoring Wells



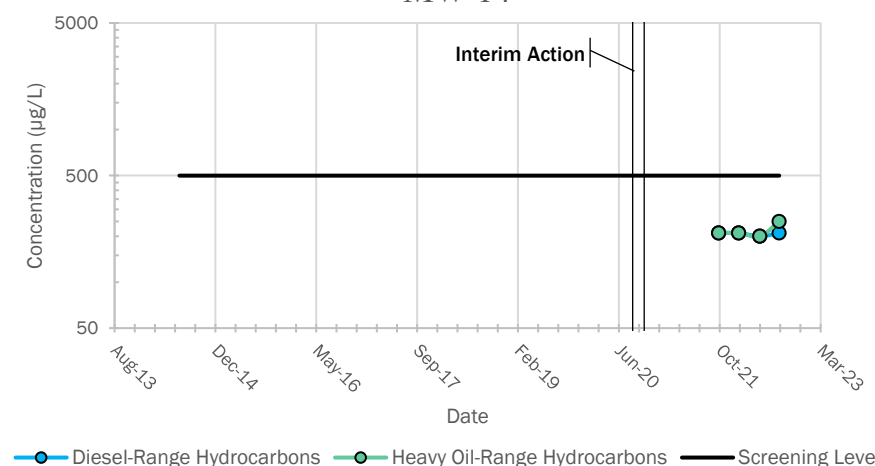
MW-1/1A



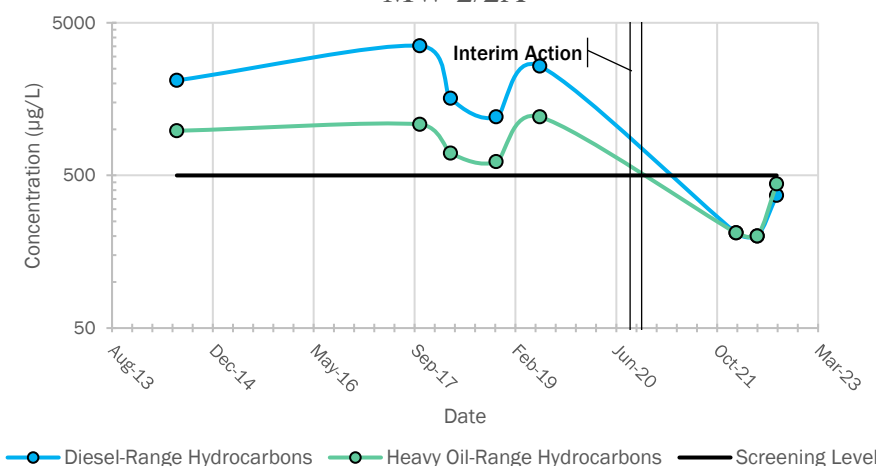
MW-15



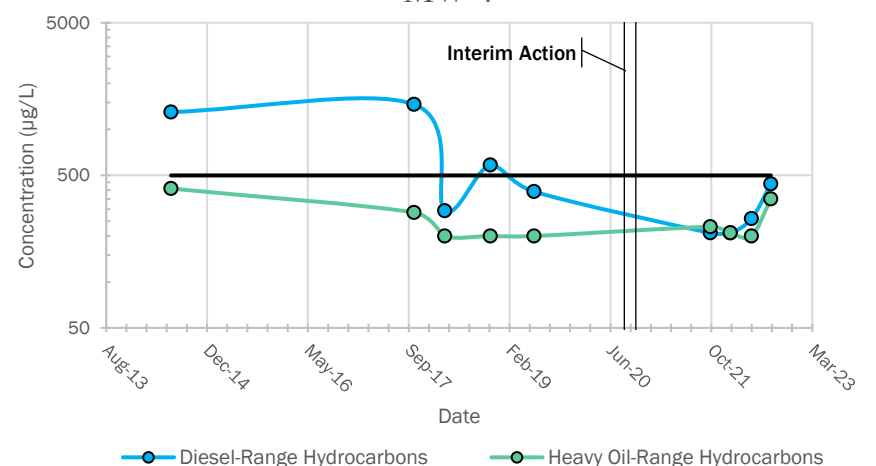
MW-14



MW-2/2A



MW-4



Notes:

1. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Quiet Cove Groundwater Monitoring Data Results.

Groundwater Summary Diesel and Heavy Oil-Range Hydrocarbons	
Quiet Cove Anacortes, Washington	
	Figure 8

APPENDIX A
Monitoring Well Completion Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/Quarry Spalls
	SOD	Sod/Forest Duff
	TS	Topsoil

Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point load test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

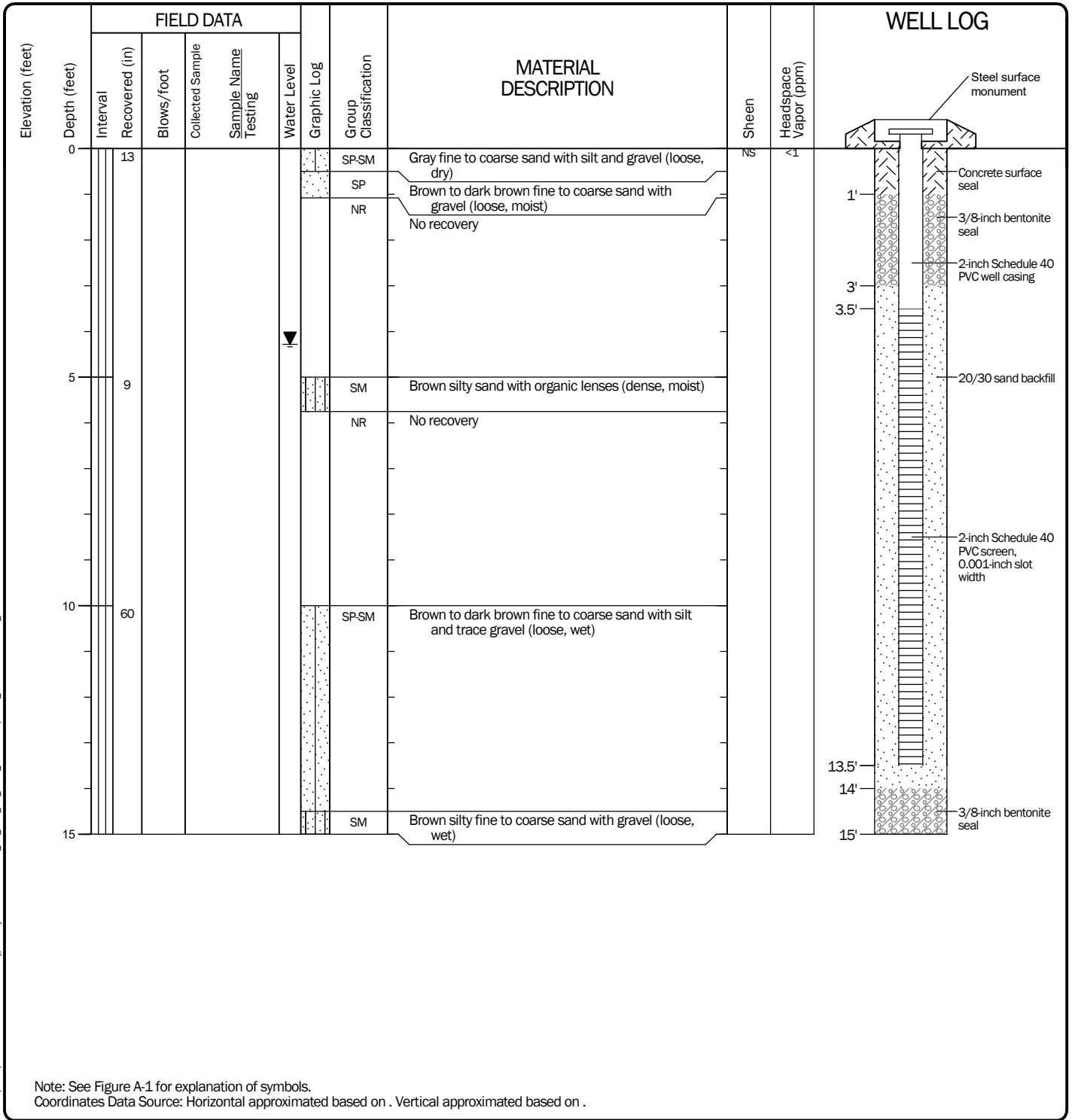
NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

Key to Exploration Logs



Figure A-1

Start Drilled 10/21/2021	End 10/21/2021	Total Depth (ft)	15	Logged By Checked By	NRS	Driller	Cascade Drilling, LP	Drilling Method	Direct Push
Hammer Data		N/A		Drilling Equipment		Track-mounted Auger Rig		DOE Well I.D.: BMM-965 A 2-in well was installed on 10/21/2021 to a depth of 13.5 ft.	
Surface Elevation (ft) Vertical Datum		Undetermined		Top of Casing Elevation (ft)		Groundwater Date Measured		Depth to Water (ft) Elevation (ft)	
Easting (X) Northing (Y)				Horizontal Datum		10/22/2021		4.28	
Notes:									



Date: 12/10/21 Path: P:\5147024\GINT\5147024\11.GPJ DBL library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_WELL

Log of Monitoring Well MW-1A



Project: Quiet Cove - Post Interim Action Construction Groundwater Monitoring
 Project Location: Anacortes, Washington
 Project Number: 5147-024-11

Start Drilled	10/21/2021	End	10/21/2021	Total Depth (ft)	15	Logged By	NRS	Checked By		Driller	Cascade Drilling, LP	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined				Hammer Data	N/A				Drilling Equipment	Track-mounted Auger Rig		
Easting (X) Northing (Y)					System Datum					Groundwater not observed at time of exploration			
Notes: Due to shell midden no well was constructed													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		32				CR	Crushed base course gravel	NS	<1		
						SM	Brown silty fine to coarse sand with occasional gravel and layers of coal throughout (dense, moist)				
						SP	Light gray fine to medium sand with gravel	SS	<1		
						ML	Tan silt with orange oxidation staining	NS	<1	Shell fragments observed	
						SM	Black to dark gray silty fine to medium sand with shell fragments				
5		49				SP-SM	Light gray to light brown fine to medium sand with silt	NS	<1		
							Becomes gray, very dense, moist to wet				
							Becomes wet			Groundwater observed at approximately 6½ feet during drilling	
							With trace gravel				
10		60									
						SM	Dark gray silty fine to coarse sand with gravel				
15											

Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

Log of Boring MW-2A

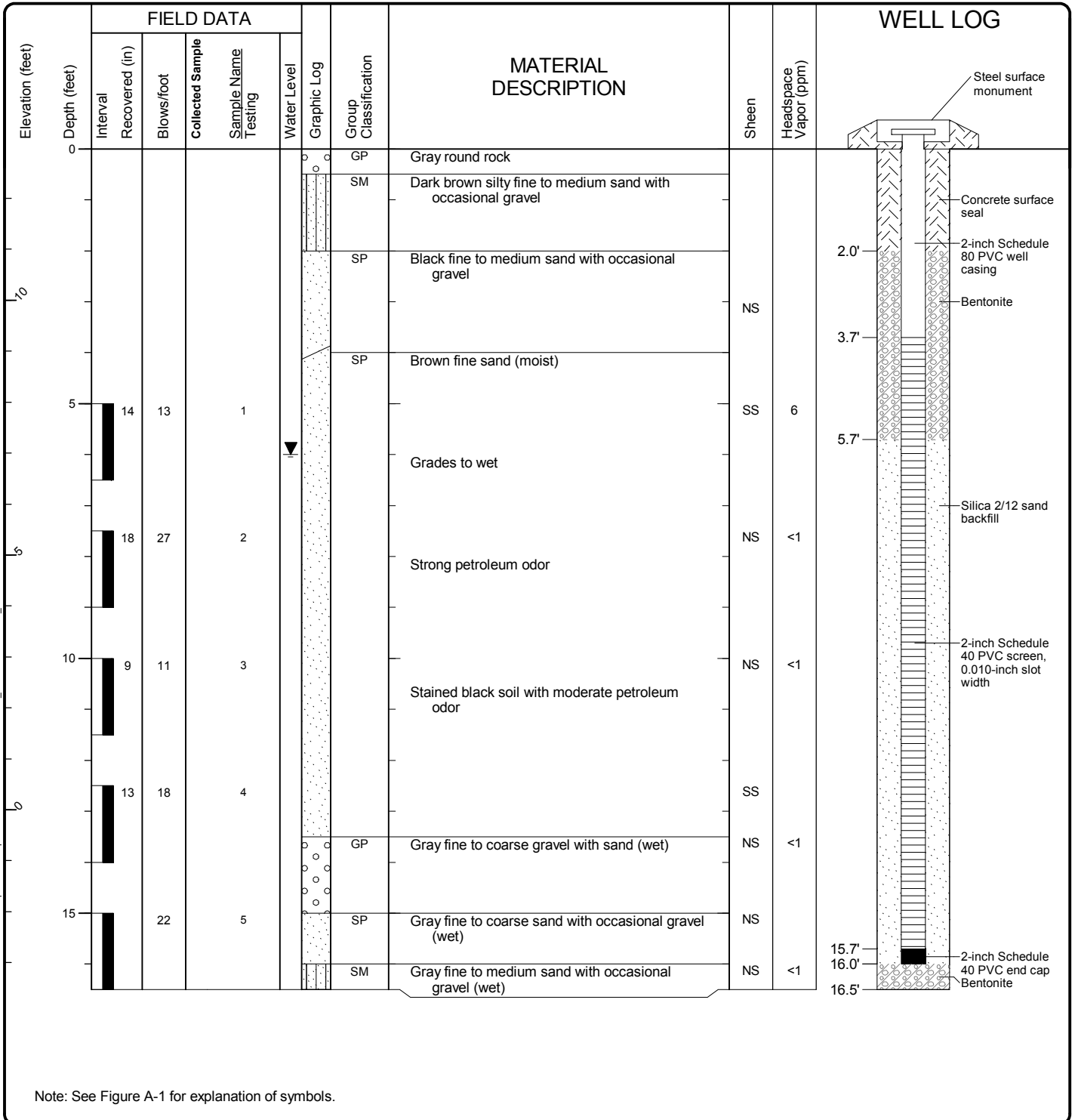


Project: Quiet Cove - Post Interim Action Construction Groundwater Monitoring
Project Location: Anacortes, Washington
Project Number: 5147-024-11

Figure A-3
Sheet 1 of 1

Date: 1/4/22 Path: \\GEOENGINEERS.COM\WAN\PROJECTS\5147024\GINT\5147024\GPI\Library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEBL_ENVIRONMENTAL_STANDARD_NO_GW

Start Drilled	6/23/2014	End	6/23/2014	Total Depth (ft)	16.5	Logged By	NRS	Checked By		Driller	Cascade Drilling, L.P.	Drilling Method	Hollow-Stem Auger
Hammer Data	Automatic 140 (lbs) / 30 (in) Drop			Drilling Equipment			DOE Well I.D.: BID 548 A 2 (in) well was installed on 6/23/2014 to a depth of 16 (ft).						
Surface Elevation (ft)	12.97			Top of Casing Elevation (ft)			Groundwater						
Vertical Datum	NAVD88						Date Measured	6/23/2014	Depth to Water (ft)	6.0	Elevation (ft)	7.0	
Easting (X)	559756.678468316			Horizontal Datum			NAD83						
Northing (Y)	1208701.08910405												
Notes:													



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-3

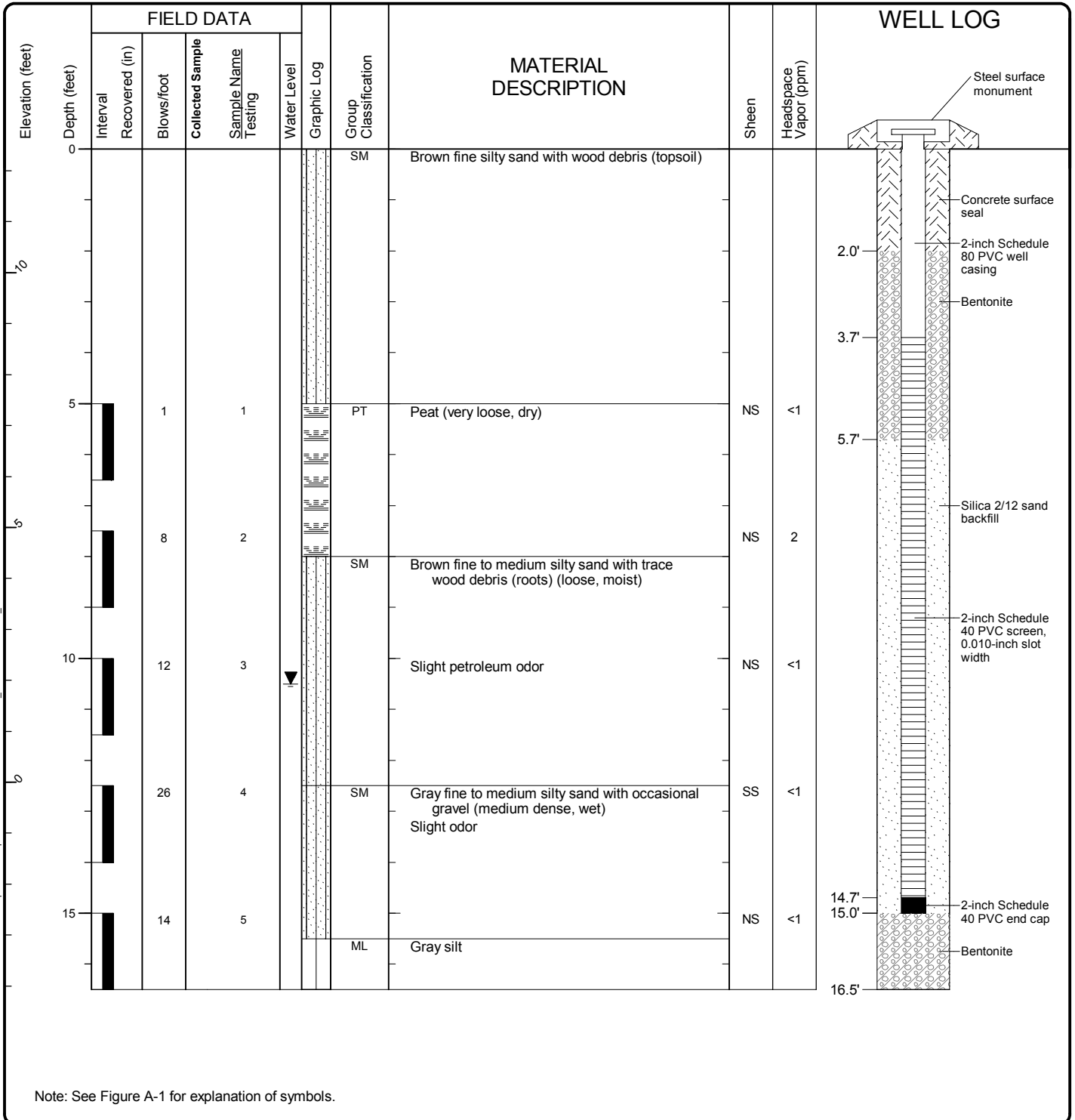


Project: Quiet Cove Property
 Project Location: Anacortes, Washington
 Project Number: 5147-024-01

Figure A-32
 Sheet 1 of 1

Seattle, Date: 7/29/14 Path:\SEA\PROJECTS\5147024\GINT\514702401.GPJ DBT\template\UBT\template\GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_WELL

Start Drilled	6/24/2014	End	6/24/2014	Total Depth (ft)	16.5	Logged By	NRS	Checked By		Driller	Cascade Drilling, L.P.	Drilling Method	Hollow-Stem Auger
Hammer Data	Automatic 140 (lbs) / 30 (in) Drop			Drilling Equipment		A 2 (in) well was installed on 6/24/2014 to a depth of 15 (ft).							
Surface Elevation (ft)	12.43			Top of Casing Elevation (ft)		Groundwater		Date Measured		Depth to Water (ft)		Elevation (ft)	
Vertical Datum	NAVD88					6/24/2014		10.5		1.9			
Easting (X)	559760.5958			Horizontal Datum		NAD83							
Northing (Y)	1208852.2931												
Notes:													



Note: See Figure A-1 for explanation of symbols.

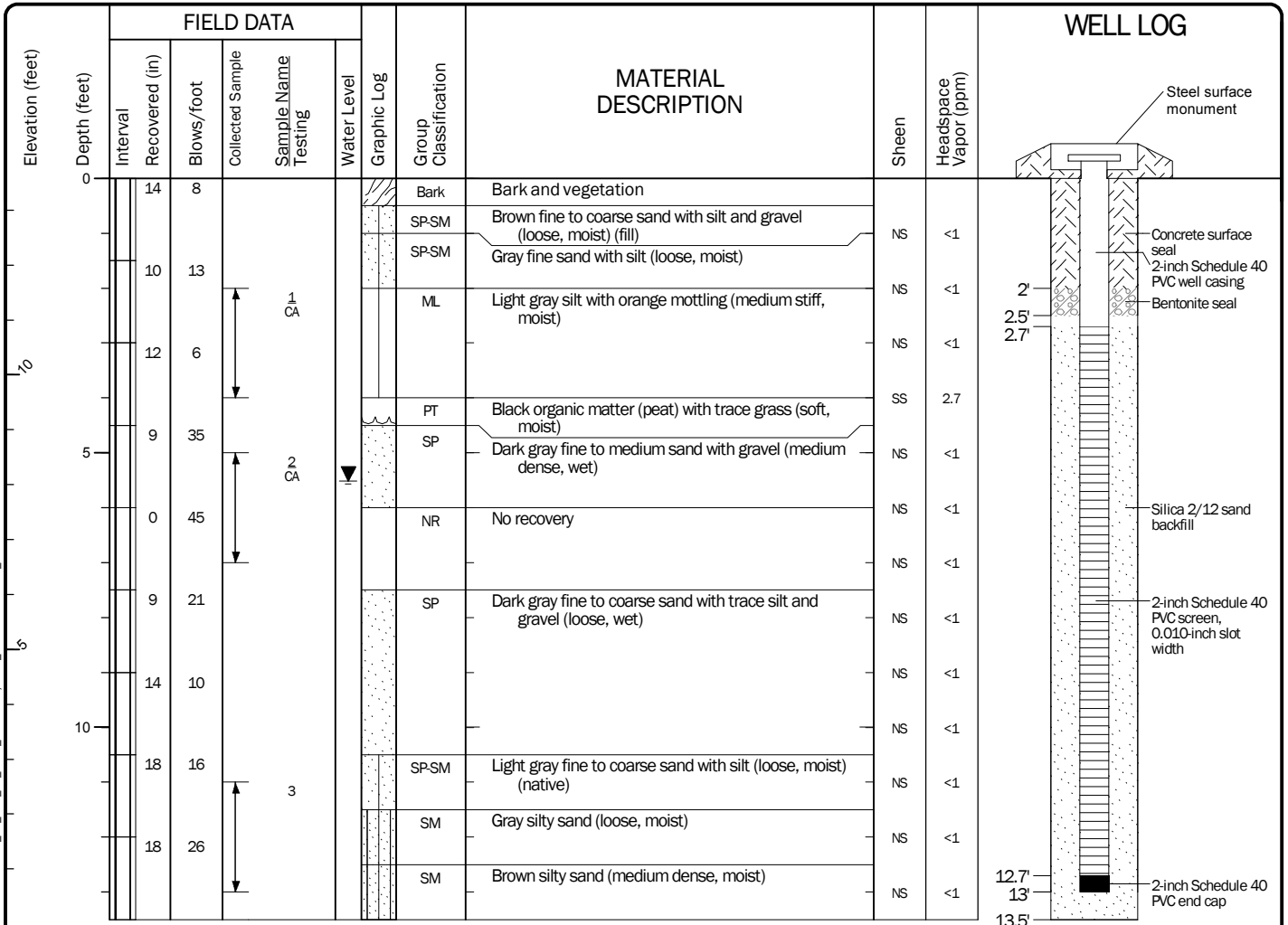
Log of Monitoring Well MW-4



Project: Quiet Cove Property
 Project Location: Anacortes, Washington
 Project Number: 5147-024-01

Seattle, Date: 7/29/14 Path:\SEA\PROJECTS\5147024\GINT\514702401 GP J DBT\template\LBT\template\GEOENGINEERS_GDT\GEIB_ENVIRONMENTAL_WELL

Start Drilled 9/19/2017	End 9/19/2017	Total Depth (ft) 13.5	Logged By Checked By NS BJT	Driller Cascade Drilling, LP	Drilling Method Hollow-stem Auger
Hammer Data	Rope & Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment CME 75	DOE Well I.D.: BKA-356 A 2 (in) well was installed on 9/19/2017 to a depth of 13 (ft).		
Surface Elevation (ft) Vertical Datum	13.58 NAVD88	Top of Casing Elevation (ft) 13.13	Groundwater Date Measured 10/17/2017		
Easting (X) Northing (Y)	1208872.65 559890.97	Horizontal Datum WA State Plane North NAD83 (feet)	Depth to Water (ft) 5.51	Elevation (ft) 7.62	
Notes:					



Note: See Figure B-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on topographic land survey completed by Sound Development Group October 6, 2017. Vertical approximated based on topographic land survey completed by Sound Development Group October 6, 2017.

Log of Monitoring Well MW-8

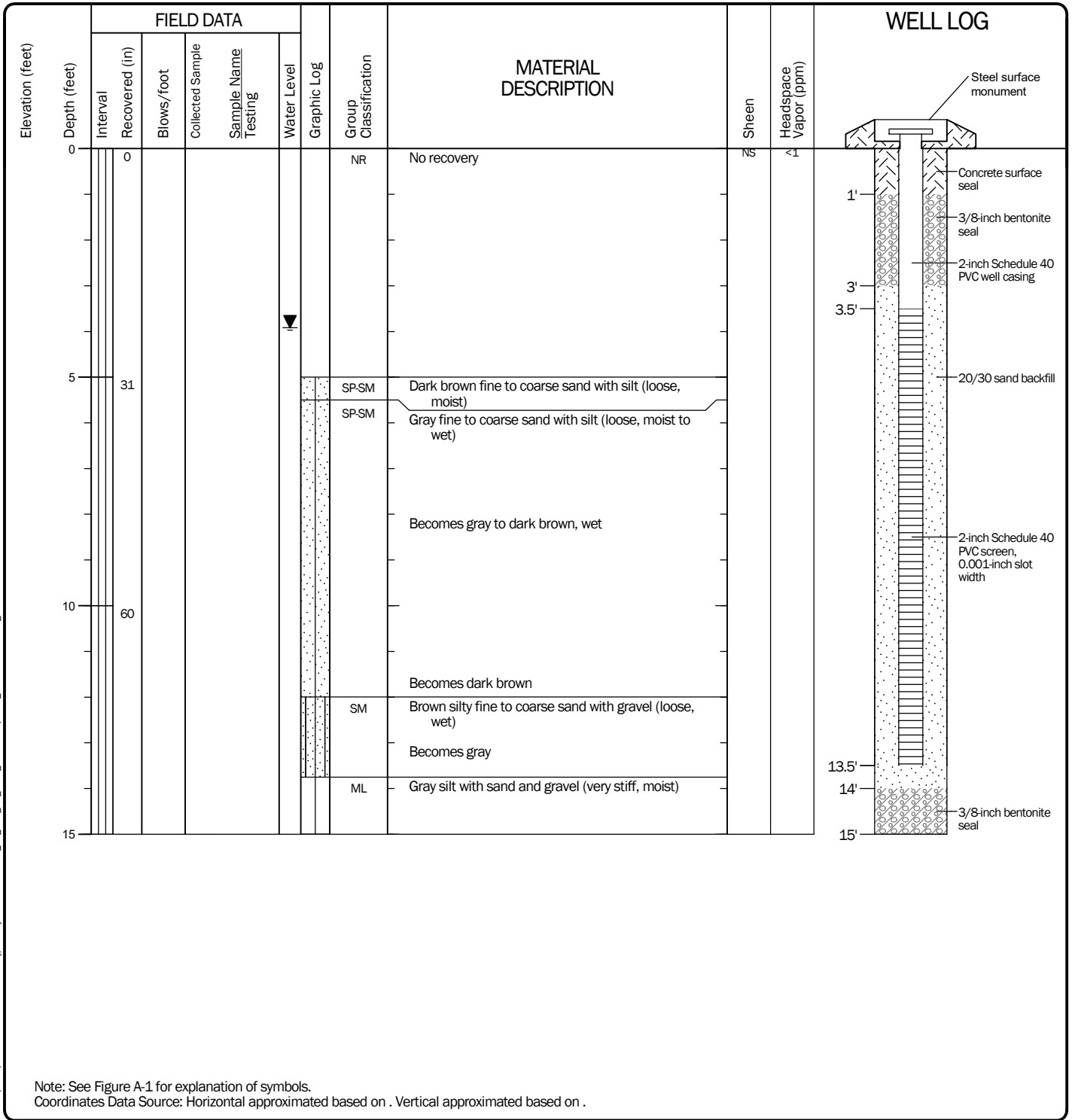


Project: Quiet Cove
Project Location: Anacortes, Washington
Project Number: 5147-024-05

Figure B-20
Sheet 1 of 1

Date: 5/9/18 Path: \\GEOENGINEERS.COM\WAN\PROJECTS\5147-024\GINT\514702405.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 10/20/2021	End 10/20/2021	Total Depth (ft)	15	Logged By Checked By	NRS	Driller	Cascade Drilling, LP	Drilling Method	Direct Push	
Hammer Data	N/A			Drilling Equipment	Track-mounted Auger Rig			DOE Well I.D.: BMM-963 A 2-in well was installed on 10/20/2021 to a depth of 13.5 ft.		
Surface Elevation (ft) Vertical Datum	Undetermined			Top of Casing Elevation (ft)						
Easting (X) Northing (Y)				Horizontal Datum	Groundwater Date Measured		10/22/2021	Depth to Water (ft)	3.92	Elevation (ft)
Notes:										



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

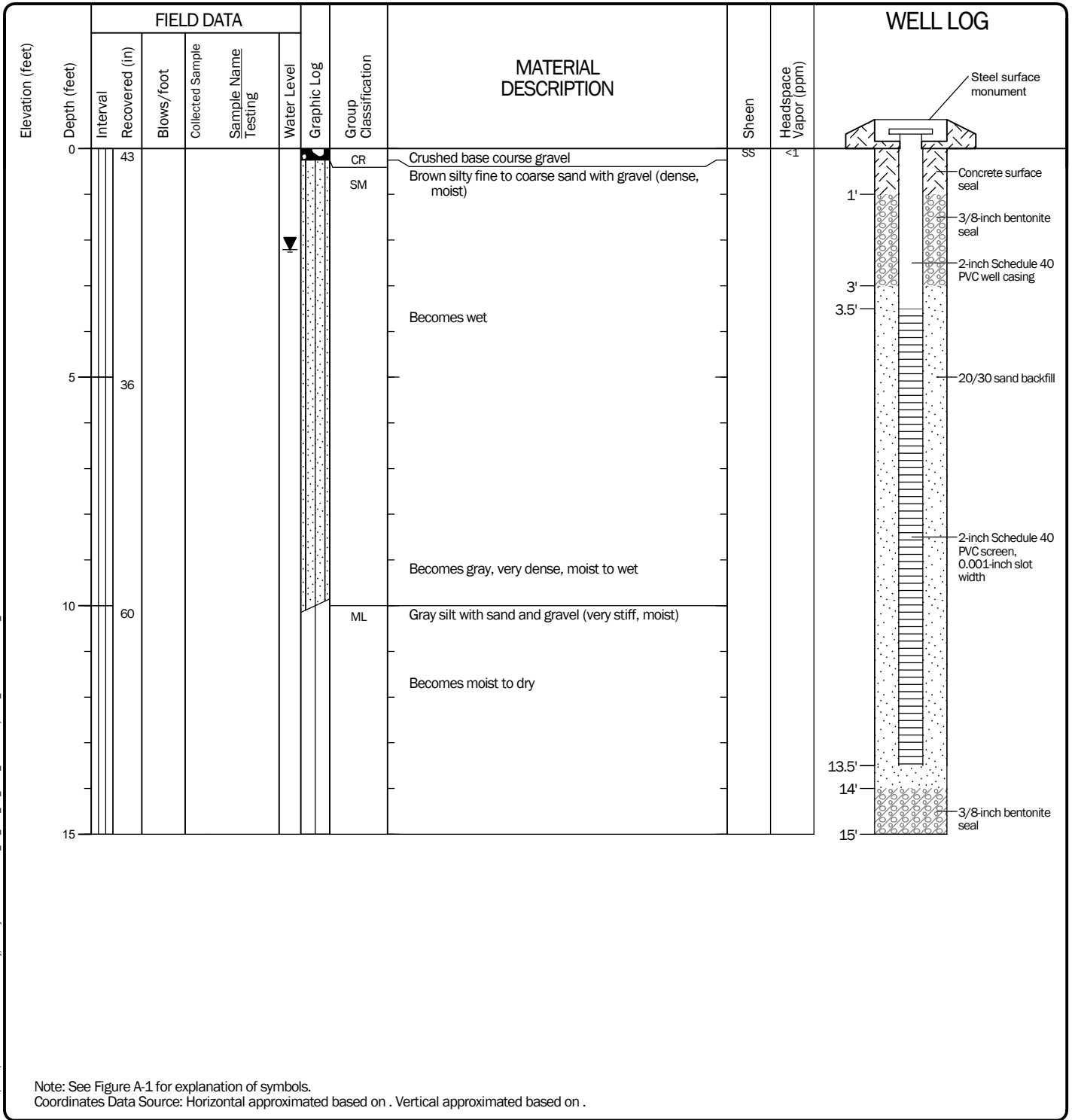
Log of Monitoring Well MW-13



Project: Quiet Cove - Post Interim Action Construction Groundwater Monitoring
Project Location: Anacortes, Washington
Project Number: 5147-024-11

Date: 12/10/21 Path: P:\5147024\GINT\5147024\11.GPJ DBL library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 10/20/2021	End 10/20/2021	Total Depth (ft)	15	Logged By Checked By	NRS	Driller Cascade Drilling, LP	Drilling Method	Direct Push
Hammer Data	N/A			Drilling Equipment	Track-mounted Auger Rig		DOE Well I.D.: BMM-966 A 2-in well was installed on 10/20/2021 to a depth of 13.5 ft.	
Surface Elevation (ft) Vertical Datum	Undetermined			Top of Casing Elevation (ft)				
Easting (X) Northing (Y)				Horizontal Datum				
				Groundwater Date Measured	10/22/2021	Depth to Water (ft)	2.21	Elevation (ft)
Notes:								



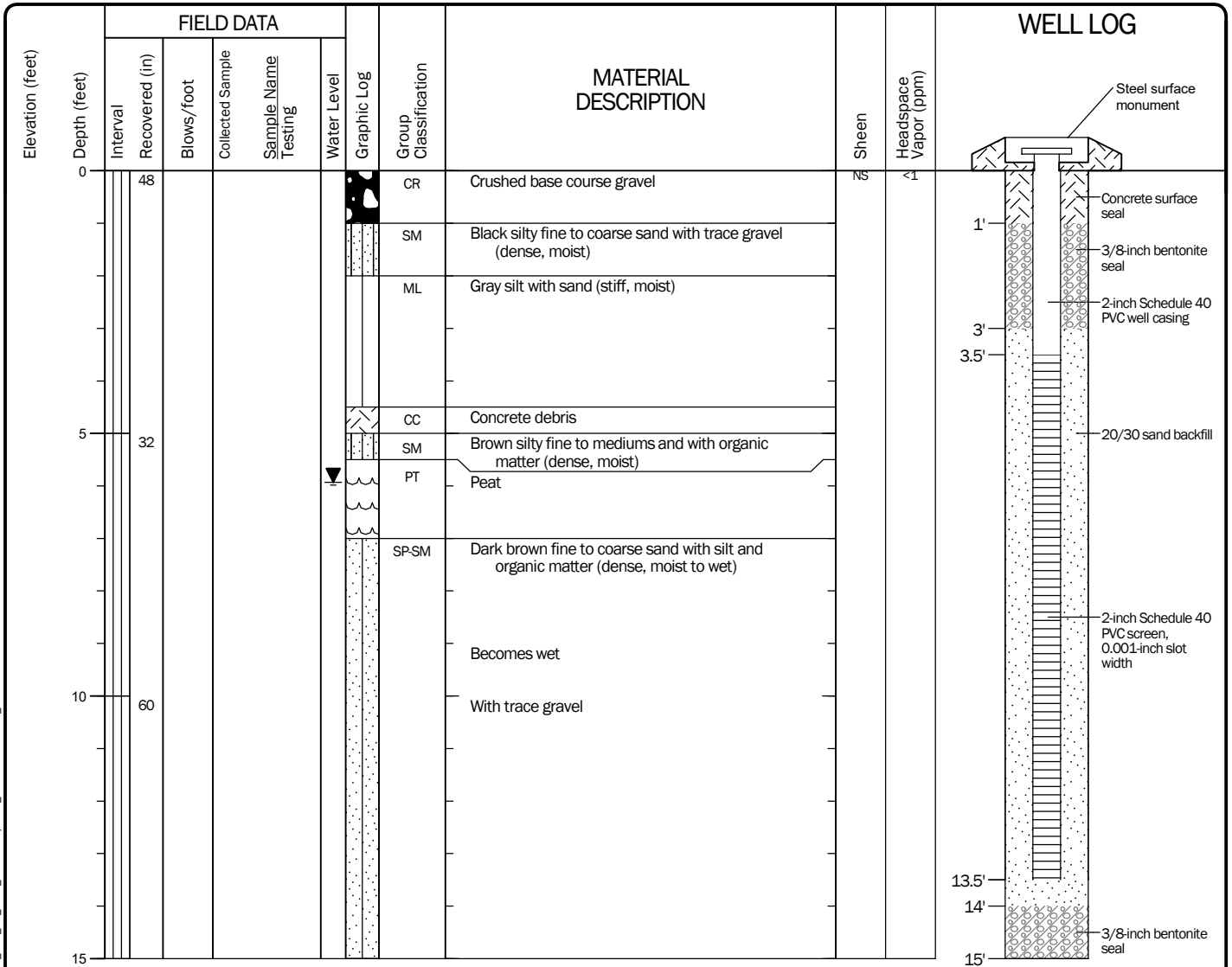
Log of Monitoring Well MW-14



Project: Quiet Cove - Post Interim Action Construction Groundwater Monitoring
 Project Location: Anacortes, Washington
 Project Number: 5147-024-11

Date: 12/10/21 Path: P:\5147024\GINT\5147024\11.GPJ DBL library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 10/20/2021	End 10/20/2021	Total Depth (ft)	15	Logged By Checked By	NRS	Driller Cascade Drilling, LP	Drilling Method	Direct Push	
Hammer Data	N/A			Drilling Equipment	Track-mounted Auger Rig		DOE Well I.D.: BMM-964 A 2-in well was installed on 10/20/2021 to a depth of 13.5 ft.		
Surface Elevation (ft) Vertical Datum	Undetermined			Top of Casing Elevation (ft)					
Easting (X) Northing (Y)				Horizontal Datum			Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
						10/22/2021		5.93	
Notes:									



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on . Vertical approximated based on .

Log of Monitoring Well MW-15



Project: Quiet Cove - Post Interim Action Construction Groundwater Monitoring
Project Location: Anacortes, Washington
Project Number: 5147-024-11

Figure A-6
Sheet 1 of 1

Date: 12/10/21 Path: P:\5147024\GINT\5147024\11.GPJ DBL library\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_WELL

APPENDIX B
Laboratory Data Reports



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 4, 2021

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-024-11
Laboratory Reference No. 2110-231

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", enclosed within a large, loopy circular flourish.

Blair Goodrow
Project Manager

Enclosures



Date of Report: November 4, 2021
Samples Submitted: October 26, 2021
Laboratory Reference: 2110-231
Project: 5147-024-11

Case Narrative

Samples were collected on October 25, 2021 and received by the laboratory on October 26, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 4, 2021
Samples Submitted: October 26, 2021
Laboratory Reference: 2110-231
Project: 5147-024-11

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1A_102521	10-231-01	Water	10-25-21	10-26-21	
MW-3_102521	10-231-02	Water	10-25-21	10-26-21	
MW-4_102521	10-231-03	Water	10-25-21	10-26-21	
MW-8_102521	10-231-04	Water	10-25-21	10-26-21	
MW-13_102521	10-231-05	Water	10-25-21	10-26-21	
MW-14_102521	10-231-06	Water	10-25-21	10-26-21	
MW-15_102521	10-231-07	Water	10-25-21	10-26-21	
DUP-1_102521	10-231-08	Water	10-25-21	10-26-21	



Date of Report: November 4, 2021
 Samples Submitted: October 26, 2021
 Laboratory Reference: 2110-231
 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	66-117				
Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	66-117				
Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	66-117				
Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Gasoline	150	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	107	66-117				
Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	66-117				
Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	102	66-117				
Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	66-117				



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GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	66-117				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Diesel Range Organics	0.65	0.20	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	0.45	0.20	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Diesel Range Organics	0.60	0.22	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	0.46	0.22	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Diesel Range Organics	ND	0.22	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Diesel Range Organics	0.21	0.20	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	0.23	0.20	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				

Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Diesel Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Diesel Range Organics	0.53	0.20	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	0.40	0.20	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Diesel Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Diesel Range Organics	0.47	0.20	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	0.56	0.20	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				

Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Diesel Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Diesel Range Organics	1.6	0.21	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	1.1	0.21	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				

Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	108	50-150				

Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Diesel Range Organics	0.69	0.21	NWTPH-Dx	10-29-21	10-30-21	
Lube Oil Range Organics	0.60	0.21	NWTPH-Dx	10-29-21	10-30-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Diesel Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-29-21	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-29-21	10-29-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	100	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	97	78-125

Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	101	75-127
Toluene-d8	99	80-127
4-Bromofluorobenzene	97	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	101	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	98	78-125

Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	1.3	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	7.4	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	103	75-127
Toluene-d8	102	80-127
4-Bromofluorobenzene	97	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	4.0	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	0.44	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	101	75-127
Toluene-d8	101	80-127
4-Bromofluorobenzene	99	78-125

Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	101	75-127
Toluene-d8	101	80-127
4-Bromofluorobenzene	98	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	100	75-127
Toluene-d8	98	80-127
4-Bromofluorobenzene	95	78-125

Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	99	75-127
Toluene-d8	101	80-127
4-Bromofluorobenzene	97	78-125



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Arsenic	ND	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Arsenic	3.7	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Arsenic	ND	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Arsenic	6.9	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Arsenic	3.6	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Arsenic	ND	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Arsenic	6.2	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Arsenic	ND	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Arsenic	ND	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	120	10	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	

Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Arsenic	3.2	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	59	10	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	

Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Arsenic	ND	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	66	10	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	

Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Arsenic	5.6	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	2000	250	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Arsenic	ND	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	190	10	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	

Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Arsenic	ND	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	320	25	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	

Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Arsenic	5.4	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	3900	250	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	

Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Arsenic	ND	3.0	EPA 200.8		10-28-21	
Cadmium	ND	4.0	EPA 200.8		10-28-21	
Chromium	ND	10	EPA 200.8		10-28-21	
Lead	ND	1.0	EPA 200.8		10-28-21	
Manganese	120	10	EPA 200.8		10-28-21	
Mercury	ND	0.025	EPA 7470A		11-1-21	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Total Alkalinity	310	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Total Alkalinity	190	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Total Alkalinity	200	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Total Alkalinity	210	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Total Alkalinity	270	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Total Alkalinity	120	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Total Alkalinity	570	2.0	SM 2320B	11-2-21	11-2-21	

Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Total Alkalinity	300	2.0	SM 2320B	11-2-21	11-2-21	



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**DISSOLVED METHANE
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_102521					
Laboratory ID:	10-231-01					
Methane	730	11	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	80	70-130				
Client ID:	MW-3_102521					
Laboratory ID:	10-231-02					
Methane	710	11	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	89	70-130				
Client ID:	MW-4_102521					
Laboratory ID:	10-231-03					
Methane	420	5.5	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	90	70-130				
Client ID:	MW-8_102521					
Laboratory ID:	10-231-04					
Methane	430	5.5	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	108	70-130				
Client ID:	MW-13_102521					
Laboratory ID:	10-231-05					
Methane	440	5.5	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	107	70-130				
Client ID:	MW-14_102521					
Laboratory ID:	10-231-06					
Methane	3.9	0.55	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	107	70-130				



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**DISSOLVED METHANE
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15_102521					
Laboratory ID:	10-231-07					
Methane	10000	550	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	83	70-130				
Client ID:	DUP-1_102521					
Laboratory ID:	10-231-08					
Methane	780	5.5	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	94	70-130				



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029W1					
Gasoline	ND	100	NWTPH-Gx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	102	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-231-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				103	103	66-117		



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**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH1028G-1	2.50	2.55	-2	+/- 20%
CCVH1029G-1	2.50	2.58	-3	+/- 20%
CCVD1029G-1	2.50	2.75	-10	+/- 20%
CCVD1029G-2	2.50	2.65	-6	+/- 20%



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029W1					
Diesel Range Organics	ND	0.15	NWTPH-Dx	10-29-21	10-29-21	
Lube Oil Range Organics	ND	0.15	NWTPH-Dx	10-29-21	10-29-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				
Laboratory ID:	MB1029W1					
Diesel Range Organics	ND	0.15	NWTPH-Dx	10-29-21	11-1-21	X1
Lube Oil Range Organics	ND	0.15	NWTPH-Dx	10-29-21	11-1-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB1029W1							
	ORIG	DUP						
Diesel Fuel #2	0.402	0.373	NA	NA	NA	NA	7	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				102	93	50-150		
Laboratory ID:	SB1029W1							
	ORIG	DUP						
Diesel Fuel #2	0.426	0.395	NA	NA	NA	NA	8	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				113	100	50-150		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV1029F-T2	100	95.8	4.2	+/-15%
CCV1029F-T3	100	96.1	3.9	+/-15%
CCV1029F-T4	100	97.2	2.8	+/-15%
CCV1029F-V2	100	89.3	10.7	+/-15%
CCV1029F-V3	100	87.0	13.0	+/-15%
CCV1029R-V2	100	94.5	5.5	+/-15%
CCV1029R-V3	100	95.6	4.4	+/-15%
CCV1101R-T1	100	101	-0.8	+/-15%
CCV1101R-T2	100	106	-5.6	+/-15%
CCV1101F-V3	100	87.6	12.4	+/-15%
CCV1101F-V4	100	88.3	11.7	+/-15%



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W1					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-1-21	11-1-21	
n-Hexane	ND	1.0	EPA 8260D	11-1-21	11-1-21	
Benzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-1-21	11-1-21	
Toluene	ND	1.0	EPA 8260D	11-1-21	11-1-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-1-21	11-1-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-1-21	11-1-21	
o-Xylene	ND	0.20	EPA 8260D	11-1-21	11-1-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.83	10.2	10.0	10.0	98	102	78-125	4	19	
Benzene	9.58	9.93	10.0	10.0	96	99	80-119	4	16	
Trichloroethene	9.86	10.1	10.0	10.0	99	101	80-121	2	18	
Toluene	9.43	9.72	10.0	10.0	94	97	80-117	3	18	
Chlorobenzene	9.54	9.77	10.0	10.0	95	98	80-117	2	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>100</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>100</i>	<i>78-125</i>			



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**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1029WM1					
Arsenic	ND	3.3	EPA 200.8	10-29-21	10-29-21	
Cadmium	ND	4.4	EPA 200.8	10-29-21	10-29-21	
Chromium	ND	11	EPA 200.8	10-29-21	10-29-21	
Lead	ND	1.1	EPA 200.8	10-29-21	10-29-21	

Laboratory ID:	MB1101W1					
Mercury	ND	0.025	EPA 7470A	11-1-21	11-1-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-210-07							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	10-231-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	10-210-07									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	104	113	111	111	ND	94	102	75-125	8	20
Cadmium	102	108	111	111	ND	92	97	75-125	5	20
Chromium	100	106	111	111	ND	91	96	75-125	5	20
Lead	102	108	111	111	ND	92	97	75-125	5	20

Laboratory ID:	10-231-01									
Mercury	6.43	6.40	6.25	6.25	ND	103	102	75-125	0	20



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**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV102921X	50.0	50.1	-0.20	+/- 10%
Cadmium	ICV102921X	50.0	51.2	-2.4	+/- 10%
Chromium	ICV102921X	50.0	51.1	-2.2	+/- 10%
Lead	ICV102921X	50.0	52.7	-5.4	+/- 10%
Mercury	ICV110121Y	2.50	2.64	-5.6	+/- 10%
Arsenic	CCV1102921X	40.0	41.0	-2.5	+/- 10%
Cadmium	CCV1102921X	40.0	40.8	-2.0	+/- 10%
Chromium	CCV1102921X	40.0	39.9	0.25	+/- 10%
Lead	CCV1102921X	40.0	41.0	-2.5	+/- 10%
Mercury	CCV1110121Y	2.50	2.63	-5.2	+/- 20%
Arsenic	CCV1102921X	20.0	20.5	-2.5	+/- 10%
Cadmium	CCV1102921X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV1102921X	20.0	19.8	1.0	+/- 10%
Lead	CCV1102921X	20.0	20.6	-3.0	+/- 10%
Arsenic	CCV2102921X	40.0	40.0	0	+/- 10%
Cadmium	CCV2102921X	40.0	40.2	-0.50	+/- 10%
Chromium	CCV2102921X	40.0	39.1	2.3	+/- 10%
Lead	CCV2102921X	40.0	40.5	-1.3	+/- 10%
Mercury	CCV2110121Y	2.50	2.60	-4.0	+/- 20%
Arsenic	CCV2102921X	20.0	20.3	-1.5	+/- 10%
Cadmium	CCV2102921X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV2102921X	20.0	19.6	2.0	+/- 10%
Lead	CCV2102921X	20.0	20.5	-2.5	+/- 10%
Arsenic	CCV3102921X	40.0	41.1	-2.8	+/- 10%
Cadmium	CCV3102921X	40.0	39.7	0.75	+/- 10%
Chromium	CCV3102921X	40.0	38.4	4.0	+/- 10%
Lead	CCV3102921X	40.0	40.4	-1.0	+/- 10%
Mercury	CCV3110121Y	2.50	2.76	-10	+/- 20%
Arsenic	CCV3102921X	20.0	20.7	-3.5	+/- 10%
Cadmium	CCV3102921X	20.0	19.5	2.5	+/- 10%
Chromium	CCV3102921X	20.0	18.9	5.5	+/- 10%
Lead	CCV3102921X	20.0	20.2	-1.0	+/- 10%



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**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	CCV4102921X	40.0	39.2	2.0	+/- 10%
Cadmium	CCV4102921X	40.0	39.1	2.3	+/- 10%
Chromium	CCV4102921X	40.0	37.8	5.5	+/- 10%
Lead	CCV4102921X	40.0	40.2	-0.50	+/- 10%
Arsenic	CCV4102921X	20.0	20.3	-1.5	+/- 10%
Cadmium	CCV4102921X	20.0	19.9	0.50	+/- 10%
Chromium	CCV4102921X	20.0	18.6	7.0	+/- 10%
Lead	CCV4102921X	20.0	20.1	-0.50	+/- 10%



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**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027F1					
Arsenic	ND	3.0	EPA 200.8	10-27-21	10-28-21	
Cadmium	ND	4.0	EPA 200.8	10-27-21	10-28-21	
Chromium	ND	10	EPA 200.8	10-27-21	10-28-21	
Lead	ND	1.0	EPA 200.8	10-27-21	10-28-21	
Manganese	ND	10	EPA 200.8	10-27-21	10-28-21	

Laboratory ID:	MB1101D1					
Mercury	ND	0.025	EPA 7470A		11-1-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-247-02							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Manganese	46.6	49.0	NA	NA	NA	NA	5	20

Laboratory ID:	10-231-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	10-247-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	79.4	79.6	80.0	80.0	ND	99	100	75-125	0	20
Cadmium	76.8	78.0	80.0	80.0	ND	96	98	75-125	2	20
Chromium	77.6	79.0	80.0	80.0	ND	97	99	75-125	2	20
Lead	79.6	81.0	80.0	80.0	ND	100	101	75-125	2	20
Manganese	123	123	80.0	80.0	46.6	96	96	75-125	0	20

Laboratory ID:	10-231-01									
Mercury	6.83	6.73	6.25	6.25	ND	109	108	75-125	1	20



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**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV102821X	50.0	50.0	0	+/- 10%
Cadmium	ICV102821X	50.0	50.9	-1.8	+/- 10%
Chromium	ICV102821X	50.0	52.2	-4.4	+/- 10%
Lead	ICV102821X	50.0	53.0	-6.0	+/- 10%
Manganese	ICV102821X	50.0	52.4	-4.8	+/- 10%
Mercury	ICV110121Y	2.50	2.64	-5.6	+/- 10%
Arsenic	CCV1102821X	40.0	40.6	-1.5	+/- 10%
Cadmium	CCV1102821X	40.0	40.8	-2.0	+/- 10%
Chromium	CCV1102821X	40.0	40.3	-0.75	+/- 10%
Lead	CCV1102821X	40.0	42.2	-5.5	+/- 10%
Manganese	CCV1102821X	40.0	40.6	-1.5	+/- 10%
Mercury	CCV1110121Y	2.50	2.63	-5.2	+/- 20%
Arsenic	CCV1102821X	20.0	20.5	-2.5	+/- 10%
Cadmium	CCV1102821X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV1102821X	20.0	20.2	-1.0	+/- 10%
Lead	CCV1102821X	20.0	21.0	-5.0	+/- 10%
Manganese	CCV1102821X	20.0	20.4	-2.0	+/- 10%
Arsenic	CCV2102821X	40.0	41.5	-3.8	+/- 10%
Cadmium	CCV2102821X	40.0	40.6	-1.5	+/- 10%
Chromium	CCV2102821X	40.0	40.3	-0.75	+/- 10%
Lead	CCV2102821X	40.0	41.4	-3.5	+/- 10%
Manganese	CCV2102821X	40.0	40.9	-2.3	+/- 10%
Mercury	CCV2110121Y	2.50	2.60	-4.0	+/- 20%
Arsenic	CCV2102821X	20.0	19.9	0.50	+/- 10%
Cadmium	CCV2102821X	20.0	20.0	0	+/- 10%
Chromium	CCV2102821X	20.0	19.9	0.50	+/- 10%
Lead	CCV2102821X	20.0	20.8	-4.0	+/- 10%
Manganese	CCV2102821X	20.0	20.9	-4.5	+/- 10%
Arsenic	CCV3102821X	40.0	40.9	-2.3	+/- 10%
Cadmium	CCV3102821X	40.0	40.1	-0.25	+/- 10%
Chromium	CCV3102821X	40.0	39.7	0.75	+/- 10%
Lead	CCV3102821X	40.0	41.9	-4.8	+/- 10%
Manganese	CCV3102821X	40.0	41.3	-3.2	+/- 10%
Mercury	CCV3102821X	2.50	2.76	-10	+/- 20%



Date of Report: November 4, 2021
 Samples Submitted: October 26, 2021
 Laboratory Reference: 2110-231
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	CCV3102821X	20.0	20.8	-4.0	+/- 10%
Cadmium	CCV3102821X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV3102821X	20.0	19.4	3.0	+/- 10%
Lead	CCV3102821X	20.0	20.8	-4.0	+/- 10%
Manganese	CCV3102821X	20.0	20.8	-4.0	+/- 10%
Manganese	CCV4102821X	40.0	40.0	0	+/- 10%
Mercury	CCV4110121Y	2.50	2.70	-8.0	+/- 20%
Manganese	CCV4102821X	20.0	20.1	-0.50	+/- 10%
Mercury	CCV5110121Y	2.50	2.76	-10	+/- 20%



Date of Report: November 4, 2021
 Samples Submitted: October 26, 2021
 Laboratory Reference: 2110-231
 Project: 5147-024-11

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102W1					
Total Alkalinity	ND	2.0	SM 2320B	11-2-21	11-2-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-231-01							
	ORIG	DUP						
Total Alkalinity	308	310	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB1102W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: November 4, 2021
 Samples Submitted: October 26, 2021
 Laboratory Reference: 2110-231
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1103W1					
Methane	ND	0.55	RSK 175	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	105	70-130				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB1103W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	52.4	52.7	44.2	44.2	119	119	75-125	1	25	
<i>Surrogate:</i>										
1-Butene					105	113	70-130			



Date of Report: November 4, 2021
Samples Submitted: October 26, 2021
Laboratory Reference: 2110-231
Project: 5147-024-11

**DISSOLVED METHANE
RSK 175
CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Methane	CCV1103DG-L1	500	546	-9.2	+/- 15%
Methane	CCV1103DG-L2	500	542	-8.5	+/- 15%





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Nov 2 2021
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your 05147-024-11 project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
MW-1A_102521	Water	21-A016342	NUT, MIN
MW-3_102521	Water	21-A016343	NUT, MIN
MW-4_102521	Water	21-A016344	NUT, MIN
MW-8_102521	Water	21-A016345	NUT, MIN
MW-13_102521	Water	21-A016346	NUT, MIN
MW-14_102521	Water	21-A016347	NUT, MIN
MW-15_102521	Water	21-A016348	NUT, MIN
DUP-1_102521	Water	21-A016349	NUT, MIN

Your samples were received on Tuesday, October 26, 2021. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

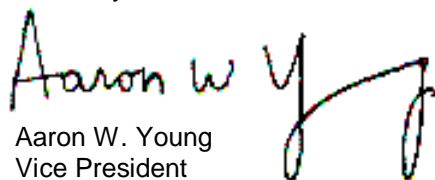
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,



Aaron W. Young
Vice President

SDG #: 2121600
PO Number: 10-231

BACT = Bacteriological
CONV = Conventionals

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



Professional
Analytical
Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: 05147-024-11
SDG Number: 2121600
PO Number: 10-231
All results reported on an as received basis.

Date Received: 10/26/21
Date Reported: 11/ 2/21

AMTEST Identification Number 21-A016342
Client Identification MW-1A_102521
Sampling Date 10/25/21, 16:15

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	7.14	mg/l		0.1	EPA 300.0	KS	10/26/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	KS	10/26/21

On-Site Environmental
Project Name: 05147-024-11
AmTest ID: 21-A016343

AMTEST Identification Number 21-A016343
Client Identification MW-3_102521
Sampling Date 10/25/21, 14:30

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	91.0	mg/l		0.1	EPA 300.0	KS	10/28/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.234	mg/l		0.025	EPA 300.0	KS	10/27/21

AMTEST Identification Number 21-A016344
Client Identification MW-4_102521
Sampling Date 10/25/21, 10:50

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	42.6	mg/l		0.1	EPA 300.0	KS	10/28/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	1.28	mg/l		0.025	EPA 300.0	KS	10/27/21

On-Site Environmental
Project Name: 05147-024-11
AmTest ID: 21-A016345

AMTEST Identification Number 21-A016345
Client Identification MW-8_102521
Sampling Date 10/25/21, 14:15

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	4.69	mg/l		0.1	EPA 300.0	KS	10/27/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.098	mg/l		0.025	EPA 300.0	KS	10/27/21

AMTEST Identification Number 21-A016346
Client Identification MW-13_102521
Sampling Date 10/25/21, 15:45

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	56.6	mg/l		0.1	EPA 300.0	KS	10/28/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	0.053	mg/l		0.025	EPA 300.0	KS	10/27/21

On-Site Environmental
Project Name: 05147-024-11
AmTest ID: 21-A016347

AMTEST Identification Number 21-A016347
Client Identification MW-14_102521
Sampling Date 10/25/21, 10:55

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	176.	mg/l		0.1	EPA 300.0	KS	10/28/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	1.55	mg/l		0.025	EPA 300.0	KS	10/27/21

AMTEST Identification Number 21-A016348
Client Identification MW-15_102521
Sampling Date 10/25/21, 08:50

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	1.48	mg/l		0.1	EPA 300.0	KS	10/27/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	KS	10/27/21

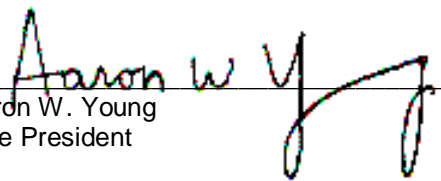
AMTEST Identification Number 21-A016349
Client Identification DUP-1_102521
Sampling Date 10/25/21, 12:00

Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Sulfate	7.38	mg/l		0.1	EPA 300.0	KS	10/27/21

Nutrients

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	KS	10/27/21



Aaron W. Young
Vice President

QC Summary for sample numbers: 21-A016342 to 21-A016349

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
21-A016342	Nitrate	mg/l	< 0.025	< 0.05	
21-A016342	Sulfate	mg/l	7.14	7.17	0.42

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
21-A016342	Nitrate	mg/l	< 0.025	2.06	2.00	103.00 %

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Nitrate	mg/l	2.00	1.98	99.0 %
Nitrate	mg/l	2.00	1.97	98.5 %
Nitrate	mg/l	2.00	2.04	102. %
Sulfate	mg/l	2.00	2.07	104. %
Sulfate	mg/l	2.00	2.17	108. %
Sulfate	mg/l	2.00	2.16	108. %
Sulfate	mg/l	2.00	1.99	99.5 %

BLANKS

ANALYTE	UNITS	RESULT
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Laboratory Reference #: 10-231

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 05147-024-11

Project Name:

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
MMW-1A_102521	16342	10/25/21	16:15	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
MMW-3_102521	43	10/25/21	14:30	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
MMW-4_102521	44	10/25/21	10:50	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
MMW-8_102521	45	10/25/21	14:15	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
MMW-13_102521	46	10/25/21	15:45	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
MMW-14_102521	47	10/25/21	10:55	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
MMW-15_102521	48	10/25/21	8:50	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
DUP-1_102521	49	10/25/21	12:00	W	1	Nitrate by EPA 300.0, Sulfate by EPA 300.0
<p>Relinquished by: <i>[Signature]</i> Company: <i>OSE</i> Date: <i>10/26/21</i> Time: <i>12:28</i></p> <p>Received by: <i>[Signature]</i> Company: <i>AmTest</i> Date: <i>10/26/21</i> Time: <i>12:28</i></p> <p>Relinquished by:</p> <p>Received by:</p> <p>Relinquished by:</p> <p>Received by:</p>						
<p>Comments/Special Instructions</p> <p>TIER 3</p> <p>EDDS</p>						

Client T=5.5



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

**RE: Quiet Cove - Post Interim Action
Work Order Number: 2110361**

October 27, 2021

Attention David Baumeister:

Fremont Analytical, Inc. received 8 sample(s) on 10/26/2021 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove - Post Interim Action
Work Order: 2110361

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2110361-001	MW-1A-102521	10/25/2021 4:15 PM	10/26/2021 7:40 PM
2110361-002	MW-3-102521	10/25/2021 2:30 PM	10/26/2021 7:40 PM
2110361-003	MW-4-102521	10/25/2021 10:50 AM	10/26/2021 7:40 PM
2110361-004	MW-8-102521	10/25/2021 2:15 PM	10/26/2021 7:40 PM
2110361-005	MW-13-102521	10/25/2021 3:45 PM	10/26/2021 7:40 PM
2110361-006	MW-14-102521	10/25/2021 10:55 AM	10/26/2021 7:40 PM
2110361-007	MW-15-102521	10/25/2021 8:50 AM	10/26/2021 7:40 PM
2110361-008	Dup-1-102521	10/25/2021 12:00 PM	10/26/2021 7:40 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove - Post Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc
Project: Quiet Cove - Post Interim Action

Lab ID: 2110361-001 **Collection Date:** 10/25/2021 4:15:00 PM
Client Sample ID: MW-1A-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	2.38	0.500	D	mg/L	5	10/26/2021 7:55:00 AM

Lab ID: 2110361-002 **Collection Date:** 10/25/2021 2:30:00 PM
Client Sample ID: MW-3-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	0.936	0.100		mg/L	1	10/26/2021 7:55:00 AM

Lab ID: 2110361-003 **Collection Date:** 10/25/2021 10:50:00 AM
Client Sample ID: MW-4-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	0.152	0.100		mg/L	1	10/26/2021 7:55:00 AM

Lab ID: 2110361-004 **Collection Date:** 10/25/2021 2:15:00 PM
Client Sample ID: MW-8-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	15.0	2.50	D	mg/L	25	10/26/2021 7:55:00 AM



CLIENT: OnSite Environmental Inc
Project: Quiet Cove - Post Interim Action

Lab ID: 2110361-005 **Collection Date:** 10/25/2021 3:45:00 PM
Client Sample ID: MW-13-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	1.66	0.100		mg/L	1	10/26/2021 7:55:00 AM

Lab ID: 2110361-006 **Collection Date:** 10/25/2021 10:55:00 AM
Client Sample ID: MW-14-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	ND	0.100		mg/L	1	10/26/2021 7:55:00 AM

Lab ID: 2110361-007 **Collection Date:** 10/25/2021 8:50:00 AM
Client Sample ID: MW-15-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	51.2	5.00	D	mg/L	50	10/26/2021 7:55:00 AM

Lab ID: 2110361-008 **Collection Date:** 10/25/2021 12:00:00 PM
Client Sample ID: Dup-1-102521 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ferrous Iron by SM3500-Fe B				Batch ID: R70779		Analyst: SS
Ferrous Iron	2.48	0.500	D	mg/L	5	10/26/2021 7:55:00 AM

Work Order: 2110361
CLIENT: OnSite Environmental Inc
Project: Quiet Cove - Post Interim Action

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R70779	SampType: MBLK	Units: mg/L	Prep Date: 10/26/2021	RunNo: 70779							
Client ID: MBLKW	Batch ID: R70779		Analysis Date: 10/26/2021	SeqNo: 1439566							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R70779	SampType: LCS	Units: mg/L	Prep Date: 10/26/2021	RunNo: 70779							
Client ID: LCSW	Batch ID: R70779		Analysis Date: 10/26/2021	SeqNo: 1439567							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.421 0.100 0.4000 0 105 85 115

Sample ID: 2110361-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 10/26/2021	RunNo: 70779							
Client ID: MW-1A-102521	Batch ID: R70779		Analysis Date: 10/26/2021	SeqNo: 1439688							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 2.48 0.500 2.383 4.04 20 D

Sample ID: 2110361-001AMS	SampType: MS	Units: mg/L	Prep Date: 10/26/2021	RunNo: 70779							
Client ID: MW-1A-102521	Batch ID: R70779		Analysis Date: 10/26/2021	SeqNo: 1439689							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 5.09 0.500 2.000 2.383 135 70 130 DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2110361-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 10/26/2021	RunNo: 70779							
Client ID: MW-1A-102521	Batch ID: R70779		Analysis Date: 10/26/2021	SeqNo: 1439690							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 5.12 0.500 2.000 2.383 137 70 130 5.088 0.642 20 DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Client Name: ONSITE	Work Order Number: 2110361
Logged by: Clare Griggs	Date Received: 10/26/2021 7:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 05147-024-11

OnSite Project Number: 10-231

Initiated by: NB

Date Initiated: 10/26/21

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature: <u>5.3</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A					
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1	2	3	4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- Gasoline Range Organics NWTPH-Gx
- Diesel and Heavy Oil Range Organics NWTPH-Dx
- Volatiles Organics EPA 8260D
- Total Metals EPA 200.8/7470A
- Dissolved Metals EPA 200.8/7470A
- Alkalinity SM 2320B
- Dissolved Methane RSK 175

Gasoline Range Organics
NWTPH-Gx Data

Data File: X:\BTEX\HOPE\DATA\H211029\1029004.D
 Acq On : 29 Oct 2021 14:45
 Sample : 10-231-01h
 Misc :

Vial: 4 Page
 Operator:
 Inst: Hope
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 15:01 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Vial: 4 Page
 Operator:
 Inst: Hope
 Multiplr: 1.00
 Sample Amount: 0.00

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	8871035	41.2069 PPB
11) S BROMOFLUOROBENZENE #2	14.62	12322103	43.933 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	6022795	0.0221 PPM
3) H GASOLINE #2	14.70	4289859	0.0200 PPM
4) MTBE #2	6.53	8727	0.069 PPB
5) BENZENE #2	8.84	27081	0.047 PPB
7) TOLUENE #2	11.32	37638	0.108 PPB
8) ETHYLBENZENE #2	13.35	26102	0.231 PPB
9) m,p-XYLENE #2	13.60	83803	0.274 PPB
10) o-XYLENE #2	14.11	26939	0.123 PPB

1) S FLUOROBENZENE #2	9.05	8871035	41.2069 PPB
1) S BROMOFLUOROBENZENE #2	14.62	12322103	43.933 PPB
2) H Entire GAS Envelope #2	14.08	6022795	0.0221 PPM
3) H GASOLINE #2	14.70	4289859	0.0200 PPM
4) MTBE #2	6.53	8727	0.069 PPB
5) BENZENE #2	8.84	27081	0.047 PPB
7) TOLUENE #2	11.32	37638	0.108 PPB
8) ETHYLBENZENE #2	13.35	26102	0.231 PPB
9) m,p-XYLENE #2	13.60	83803	0.274 PPB
10) o-XYLENE #2	14.11	26939	0.123 PPB

Quantitation Report (Not Reviewed)

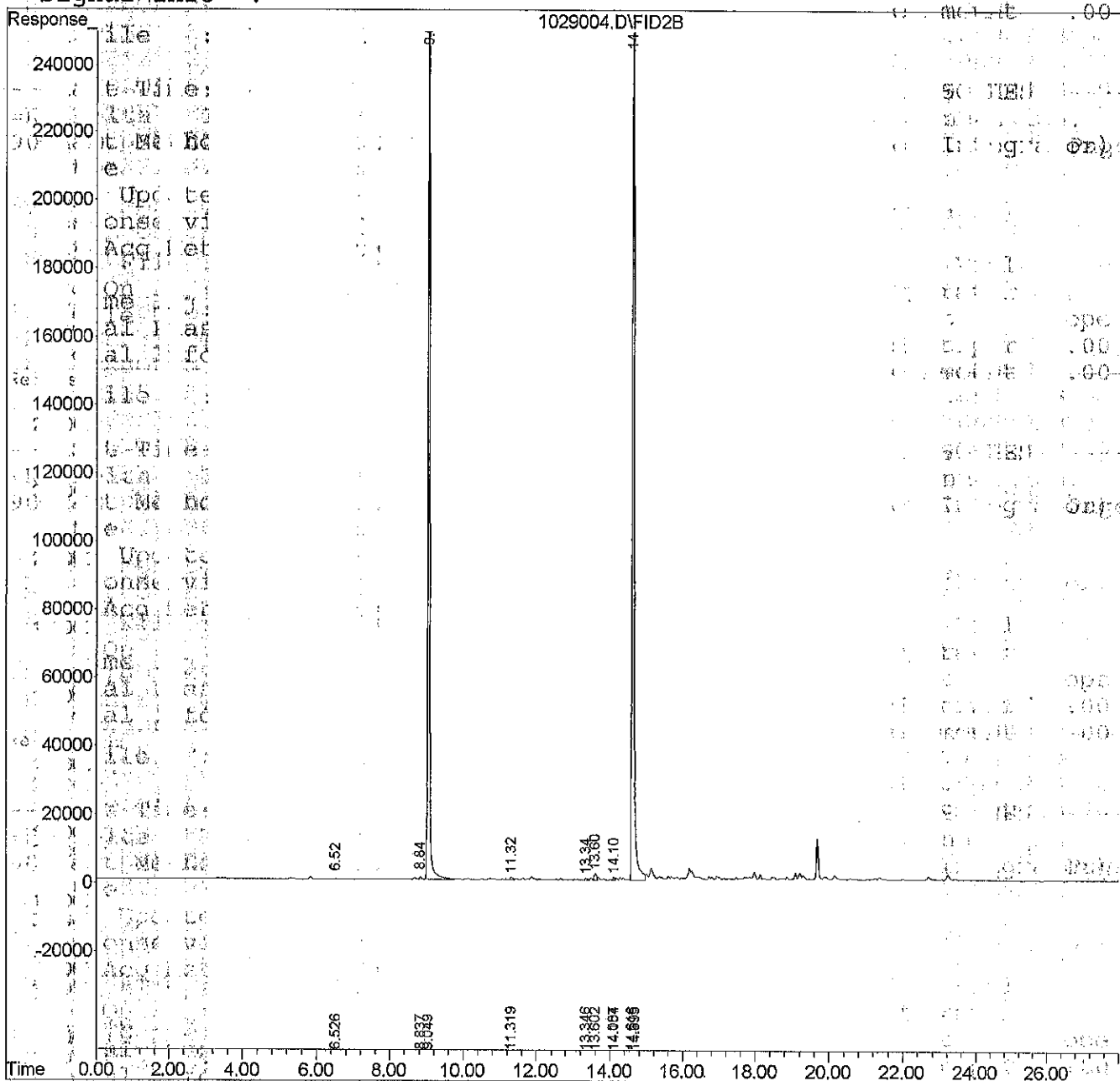
Data File : X:\BTEX\HOPE\DATA\H211029\1029004.D
 Acq On : 29 Oct 2021 14:45
 Sample : 10-231-01h
 Misc :
 IntFile : EVENTS1.E

Vial: 4
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Oct 29 15:01 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :



Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029041.D\FID1A.CH Vial: 41
 Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029041.D\FID2B.CH
 Acq On : 30 Oct 2021 10:08 Operator:
 Sample : 10-231-02h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Oct 30 10:33 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:05:53 2021
 Response via : Initial Calibration
 DataAcq Meth : 211026B.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE	6.86	1582362	34.629 PPB
5) S BROMOFLUOROBENZENE	12.19	939752	36.420 PPB
12) S FLUOROBENZENE #2	6.86	2320132	33.241 PPB
17) S BROMOFLUOROBENZENE #2	12.19	3240224	35.563 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.50	2256022	0.022 PPM
2) H Entire GAS Envelope	12.20	2785534	0.019 PPM
3) H GASOLINE	13.50	1705331	0.043 PPM
7) H MINERAL SPIRITS #2 (10-12-	12.23	2437119	0.082 PPM
8) H entire GAS envelope #2	12.20	2917562	0.040 PPM
9) H GASOLINE #2	13.50	2193375	0.043 PPM
10) SY MTBE #2	4.58	53178	0.926 PPB
11) SY BENZENE #2	6.63	55541	0.525 PPB
13) SY TOLUENE #2	9.00	22644	0.271 PPB
14) SY ETHYLBENZENE #2	10.96	11385	0.258 PPB
15) SY m-CRXYLENE #2	11.22	29527	0.349 PPB
16) SY o-CRXYLENE #2	11.70	20052	0.295 PPB

Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029041.D\FID1A.CH Vial: 41
 Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029041.D\FID2B.CH
 Acq On : 30 Oct 2021 10:08 Operator:
 Sample : 10-231-02h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Oct 30 10:33 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)

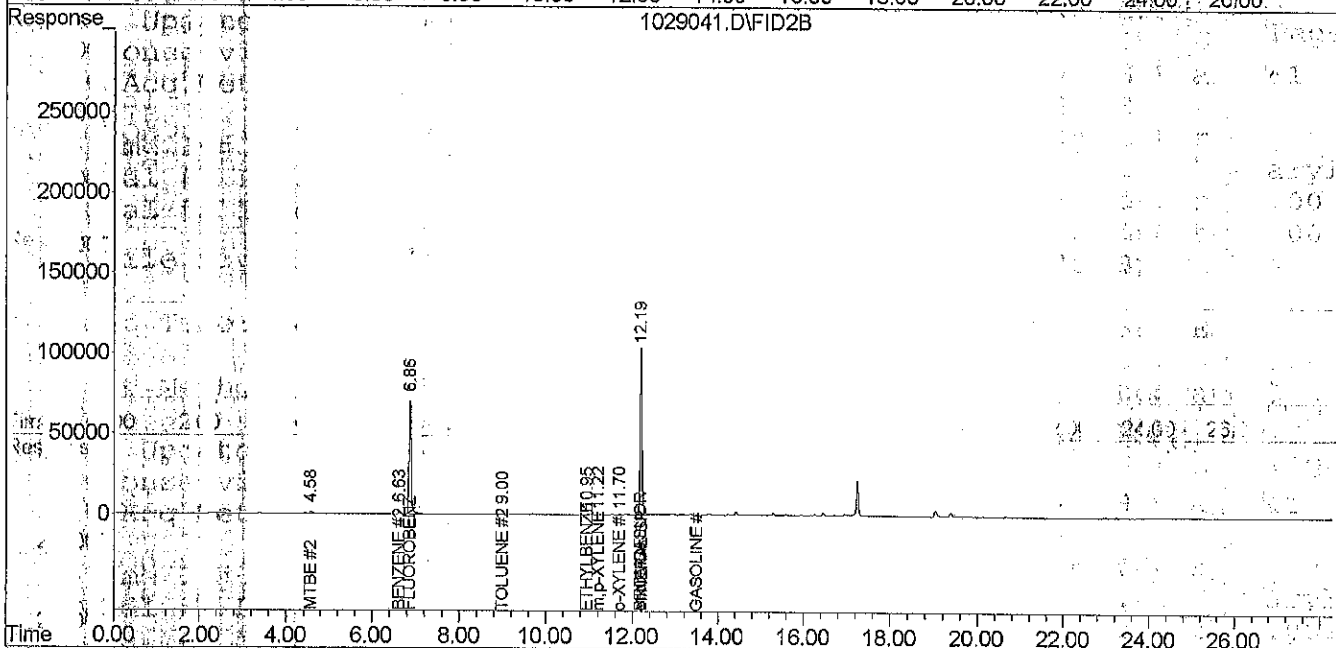
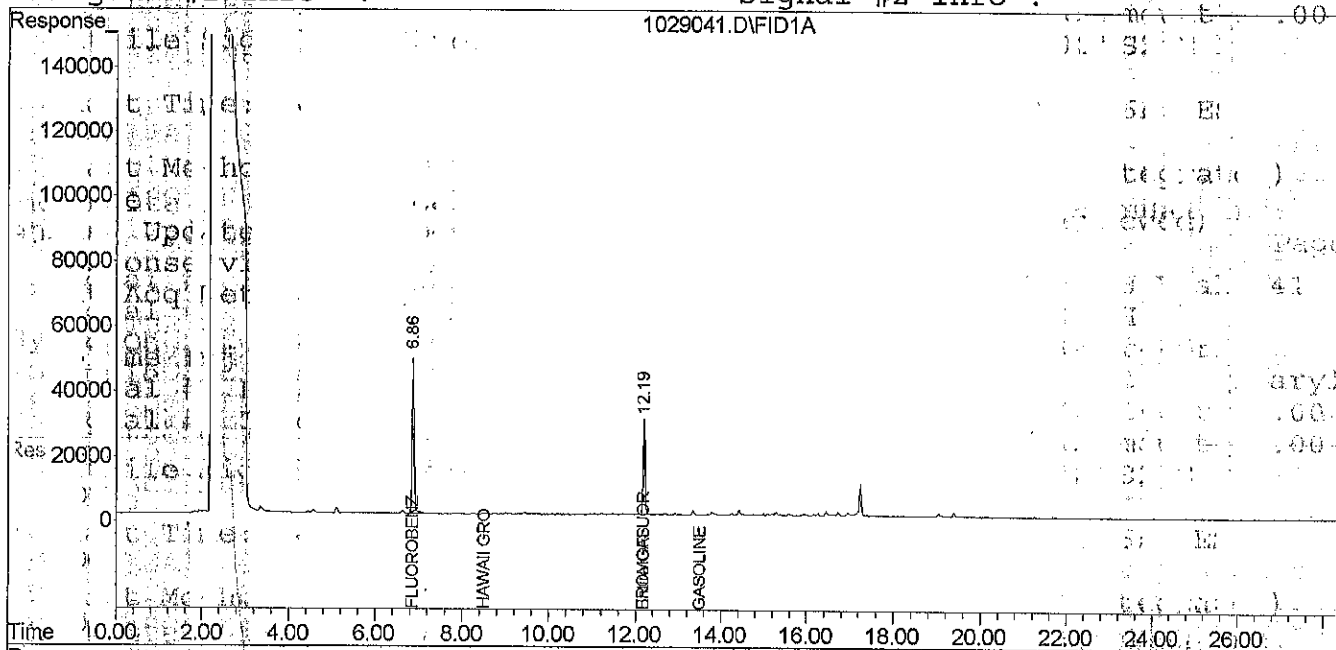
Title : Fid calibration

Last Update : Wed Oct 27 10:05:53 2021

Response via : Multiple Level Calibration

DataAcq Meth : 211026B.M

Volume Inj :
 Signal #1 Phase : Signal #2 Phase : aryl
 Signal #1 Info : Signal #2 Info : .00



Data File : X:\BTEX\HOPE\DATA\H211029\1029006.D Vial: 6
 Acq On : 29 Oct 2021 16:00 Operator:
 Sample : 10-231-03h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 16:14 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)

Title : Fid calibration

Last Update : Wed Oct 27 10:57:49 2021

Response via : Initial Calibration

DataAcq Meth : 211025G.M

Volume Inj. :

Signal Phase :

Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	8832091	41.025 PPB
11) S BROMOFLUOROBENZENE #2	14.62	12278084	43.776 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	4995060	0.0151 PPM
3) H GASOLINE #2	14.70	3351943	0.0121 PPM
4) MIBK #2	6.53	2726	0.021 PPB
5) BENZENE #2	8.85	9345	N.D. PPB
7) TOLUENE #2	11.34	19239	0.046 PPB
8) ETHYLBENZENE #2	13.37	10571	0.174 PPB
9) m,p-XYLENE #2	13.51	3291	0.022 PPB
10) o-XYLENE #2	14.12	11453	0.066 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029006.D
Acq On : 29 Oct 2021 16:00
Sample : 10-231-03h
Misc :

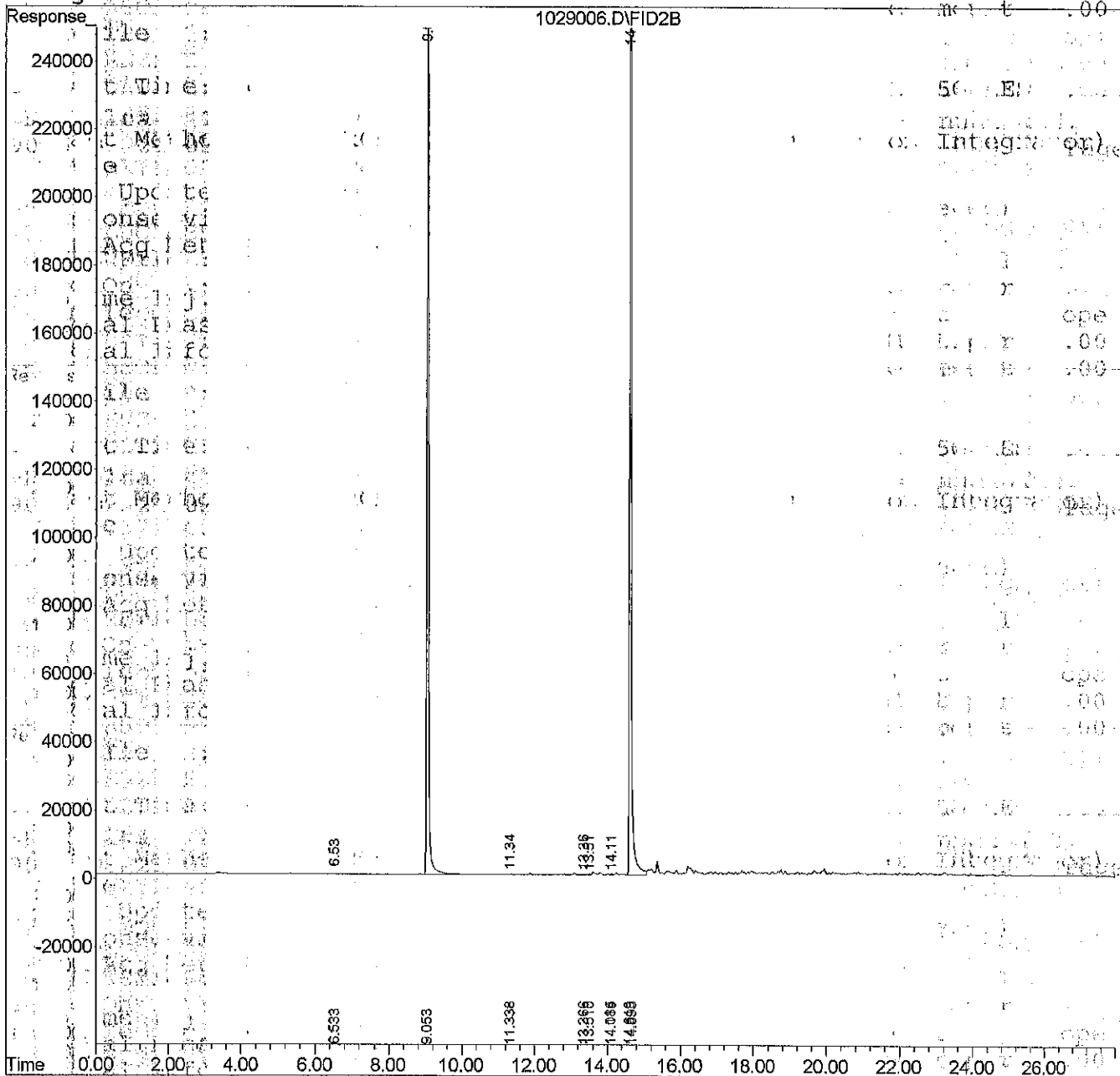
Vial: 6
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 16:14 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Oct 27 10:57:49 2021
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : X:\BTEX\HOPE\DATA\H211029\1029007.D
 Acq On : 29 Oct 2021 16:31
 Sample : 10-231-04h
 Misc :
 IntFile : EVENTS1.E

Vial: 7
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Oct 29 16:51 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :

Vial
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Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	9179899	42.642 PPB
11) S BROMOFLUOROBENZENE #2	14.62	12649426	45.106 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	34154225	0.2161 PPM
3) H GASOLINE #2	14.70	20973788	0.154 PPM
4) MTEE #2	6.54	516570	4.145 PPB
5) BENZENE #2	8.82	2925119	9.512 PPB
7) TOLUENE #2	11.29	131817	0.426 PPB
8) ETHYLBENZENE #2	13.30	84287	0.445 PPB
9) m,p-XYLENE #2	13.59	292496	0.926 PPB
10) o-XYLENE #2	14.09	55720	0.5230 PPB

Quantitation Report (Not Reviewed)

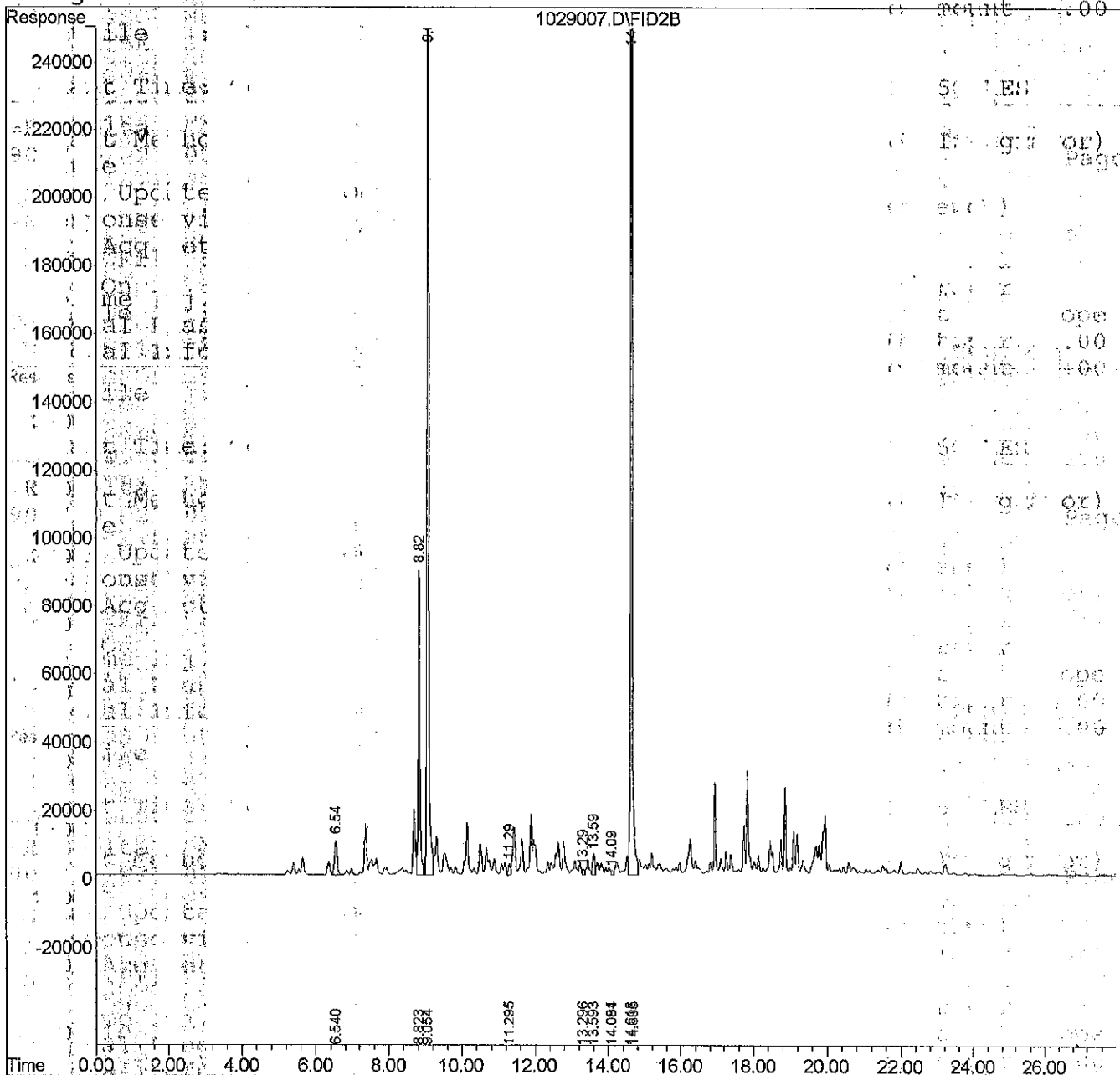
Data File : X:\BTEX\HOPE\DATA\H211029\1029007.D
Acq On : 29 Oct 2021 16:31
Sample : 10-231-04h
Misc :
IntFile : EVENTS1.E

Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Oct 29 16:51 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Oct 27 10:57:49 2021
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029008.D
 Acq On : 29 Oct 2021 17:01
 Sample : 10-231-05h
 Misc :

Vial: 8
 Operator:
 Inst: Hope
 Multiplr: 1.00
 Sample Amount: 0.0000g

IntFile : EVENTS1.E

Quant Time: Oct 29 17:29 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	8830604	41.018 PPB
11) S BROMOFLUOROBENZENE #2	14.62	12149097	43.314 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	10852795	0.055 PPM
3) H GASOLINE #2	14.70	6178260	0.035 PPM
4) M TBE #2	6.52	368457	2.956 PPB
5) BENZENE #2	8.83	1346115	4.355 PPB
7) TOLUENE #2	11.31	33474	0.094 PPB
8) ETHYLBENZENE #2	13.22	39910	0.282 PPB
9) m,p-XYLENE #2	13.60	107682	0.348 PPB
10) o-XYLENE #2	14.11	30785	0.137 PPB

S	FLUOROBENZENE		
S	BROMOFLUOROBENZENE		
H	Entire GAS Envelope		
H	GASOLINE		
M	TBE		
	BENZENE		
	TOLUENE		
	ETHYLBENZENE		
	m,p-XYLENE		
	o-XYLENE		

Data File : X:\BTEX\HOPE\DATA\H211029\1029008.D
Acq On : 29 Oct 2021 17:01
Sample : 10-231-05h
Misc :

Vial: 8
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 17:29 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)

Title : Fid calibration

Last Update : Wed Oct 27 10:57:49 2021

Response via : Multiple Level Calibration

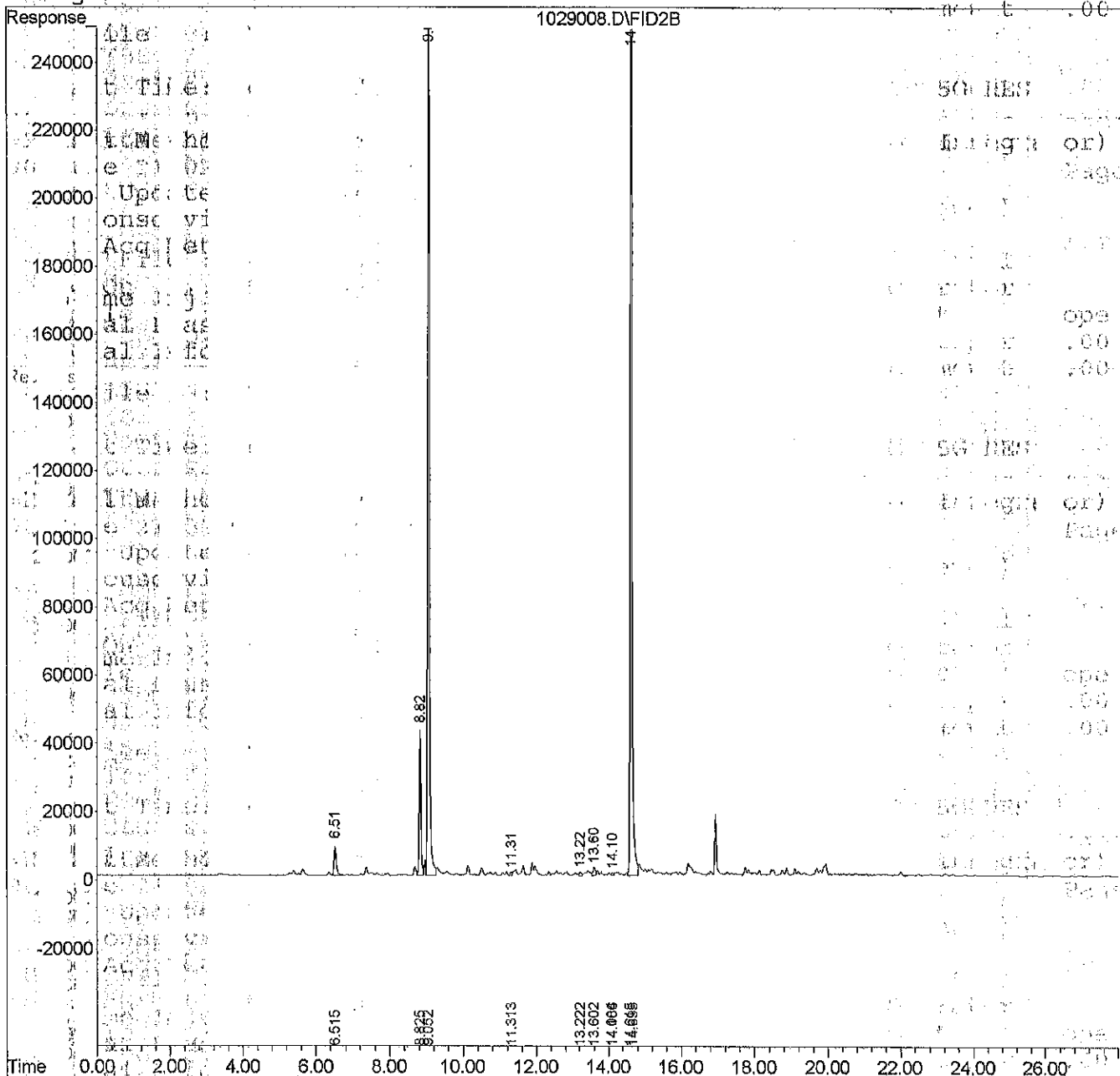
DataAcq Meth : 211025G.M

Volume Inj. :

Signal Phase :

Signal Info :

Operator : hope
Sample : 1029008.D
Vial : 8
Amount : 0.00



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029009.D
 Acq On : 29 Oct 2021 17:46
 Sample : 10-231-06h
 Misc :
 IntFile : EVENTS1.E

Vial: 9
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Oct 29 18:05 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	8810513	40.925 PPB
11) S BROMOFLUOROBENZENE #2	14.62	12246551	43.663 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	2499690	N.D. PPM
3) H GASOLINE #2	14.70	1521274	N.D. PPM
4) MTEE #2	6.53	4126	0.032 PPB
5) BENZENE #2	8.84	18582	0.019 PPB
7) TOLUENE #2	11.34	17357	0.039 PPB
8) ETHYLBENZENE #2	13.37	9516	0.170 PPB
9) m,p-XYLENE #2	13.52	2436	0.019 PPB
10) o-XYLENE #2	14.12	12333	0.069 PPB

1) S	FLUOROBENZENE #2	9.05	8810513	40.925 PPB
1) S	BROMOFLUOROBENZENE #2	14.62	12246551	43.663 PPB
1) H	Entire GAS Envelope #2	14.08	2499690	N.D. PPM
1) H	GASOLINE #2	14.70	1521274	N.D. PPM
1) H	MTEE #2	6.53	4126	0.032 PPB
1) H	BENZENE #2	8.84	18582	0.019 PPB
1) H	TOLUENE #2	11.34	17357	0.039 PPB
1) H	ETHYLBENZENE #2	13.37	9516	0.170 PPB
1) H	m,p-XYLENE #2	13.52	2436	0.019 PPB
1) H	o-XYLENE #2	14.12	12333	0.069 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029009.D
 Acq On : 29 Oct 2021 17:46
 Sample : 10-231-06h
 Misc :
 IntFile : EVENTS1.E

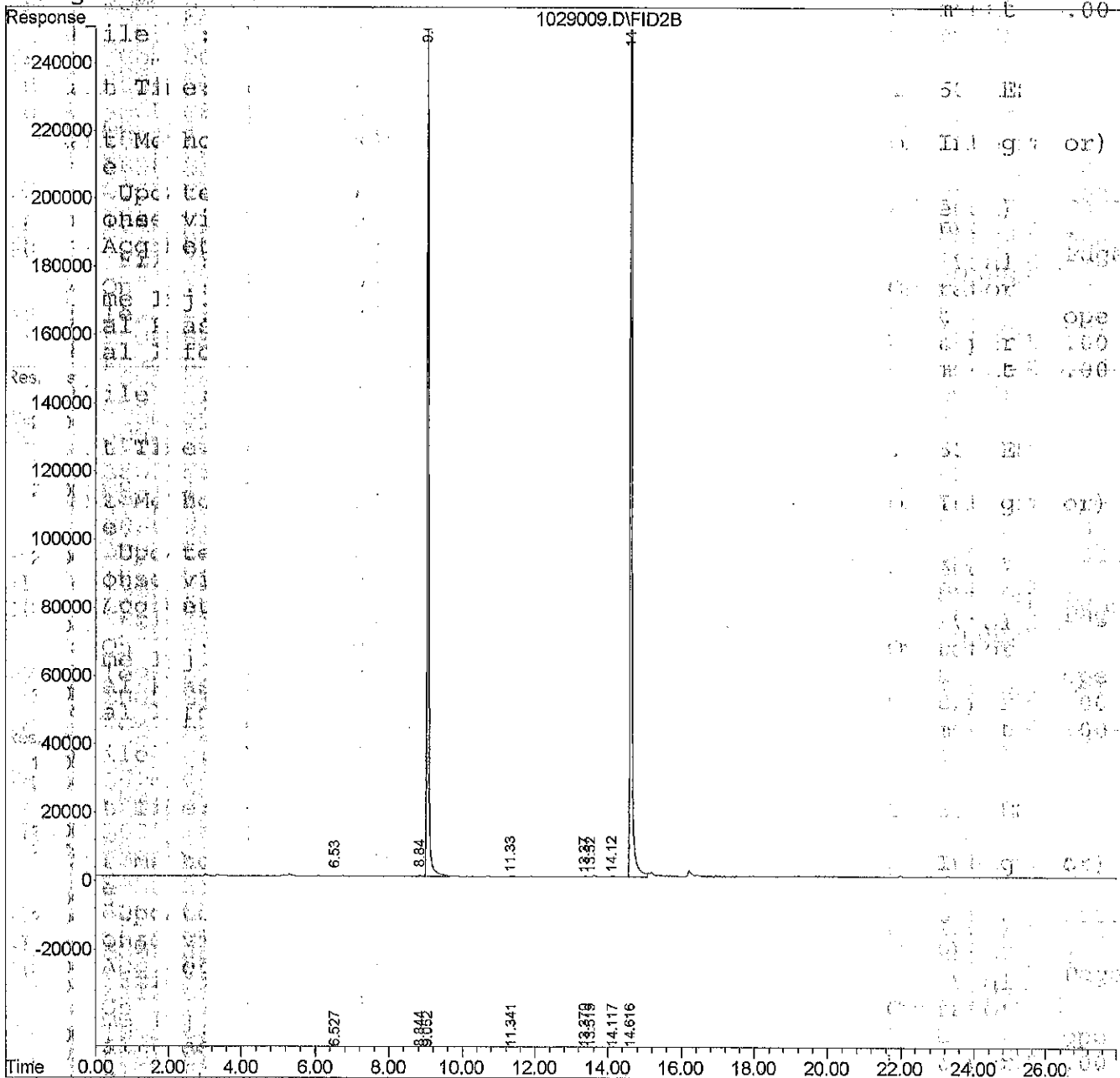
Vial: 9 Page
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Oct 29 18:05 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Vial Page
 Operator
 Multiplr
 Sample Amount



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029042.D\FID1A.CH Vial: 42
 Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029042.D\FID2B.CH
 Acq On : 30 Oct 2021 10:53 Operator:
 Sample : 10-231-07h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00g

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Oct 30 11:07 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:05:53 2021
 Response via : Initial Calibration
 DataAcq Meth : 211026B.M

Volume Inj :
 Signal #1 Phase : Signal #2 Phase :
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE	6.86	1512749	33.112 PPB
5) S BROMOFLUOROBENZENE	12.19	874956	33.929 PPB
12) S FLUOROBENZENE #2	6.86	2219430	31.798 PPB
17) S BROMOFLUOROBENZENE #2	12.19	3039877	33.1373a PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.50	2018076	0.016 PPM
2) H Entire GAS Envelope	12.20	2591734	0.015 PPM
3) H GASOLINE	13.50	1387329	0.031 PPM
7) H MINERAL SPIRITS #2 (10-12-	12.23	1491536	0.061 PPM
8) H entire GAS envelope #2	12.20	1993068	0.022 PPM
9) H GASOLINE #2	13.50	1298978	0.023 PPM
10) MTBE #2	4.58	54391	0.949 PPB
11) BENZENE #2	6.63	54594	0.516 PPB
13) TOLUENE #2	9.00	22144	0.266 PPB
14) ETHYLBENZENE #2	10.96	8101	0.218 PPB
15) m-XYLENE #2	11.32	4201	0.093 PPB
16) o-XYLENE #2	11.71	15935	0.249 PPB

Quantitation Report (Not Reviewed)

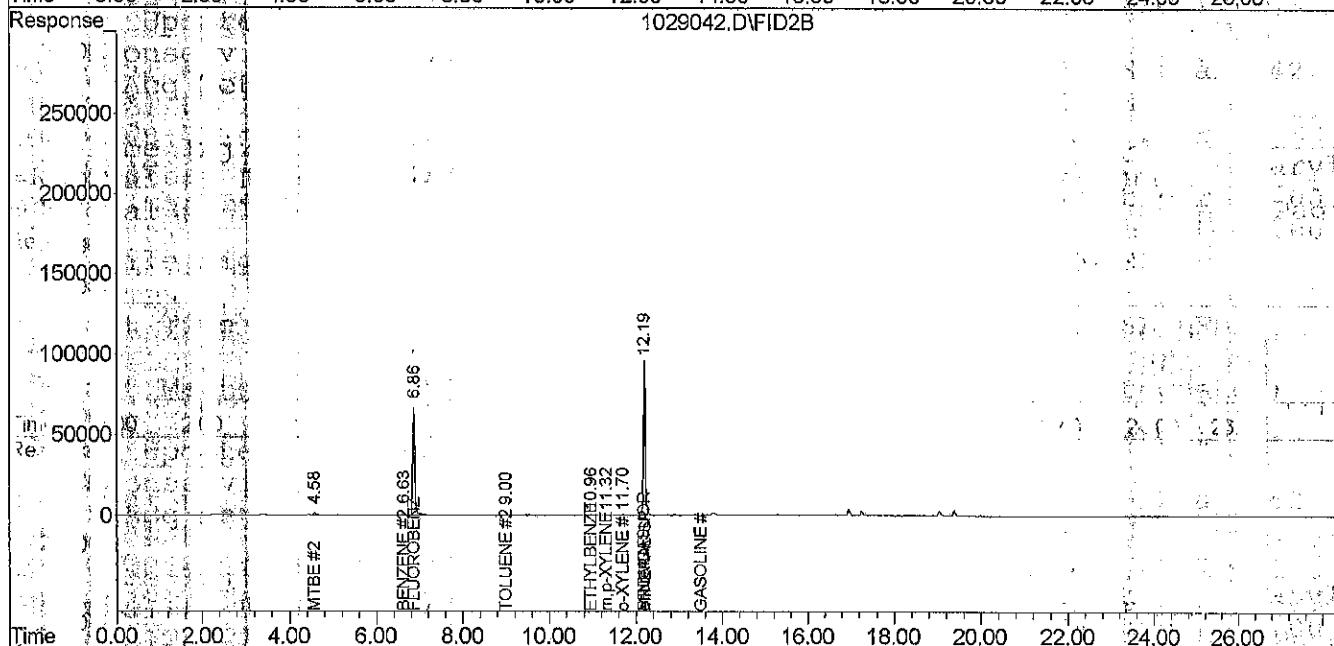
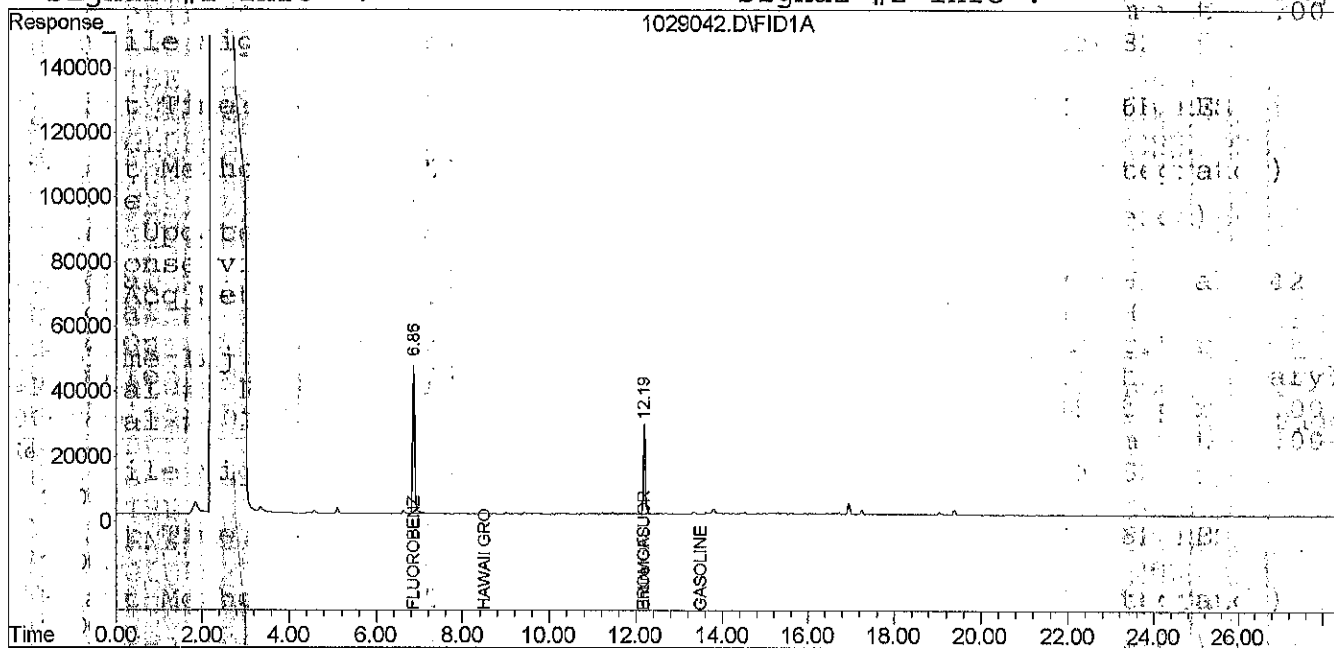
Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029042.D\FID1A.CH Vial: 42
 Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029042.D\FID2B.CH
 Acq On 30 Oct 2021 10:53 Operator:
 Sample 10-231-07h Inst : Daryl
 Misc: 0 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Oct 30 11:07 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:05:53 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : 211026B.M

Volume Inj :
 Signal #1 Phase : Signal #2 Phase :
 Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029010.D
 Acq On : 29 Oct 2021 18:16
 Sample : 10-231-08h
 Misc :

Vial: 10
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00
 Page 2

IntFile : EVENTS1.E

Quant Time: Oct 29 18:42 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :

Vial 0
 rator
 ope
 0.00
 0.00
 Page 2

Compound R.T. Response Conc Units

System Monitoring Compounds

6) S	FLUOROBENZENE #2	9.05	8842852	41.075 (PPB or)
11) S	BROMOFLUOROBENZENE #2	14.61	12250224	43.676 PPB

Target Compounds

2) H	Entire GAS Envelope #2	14.08	5009632	0.0151 PPM
3) H	GASOLINE #2	14.70	3523987	0.014 PPM
4)	MIBI #2	0.00	0	N.D. PPB
5)	BENZENE #2	8.84	17862	0.017 PPB
7)	TOLUENE #2	11.33	16699	0.037 PPB
8)	ETHYLBENZENE #2	13.36	18399	0.202 PPB
9)	m,p-XYLENE #2	13.61	41385	0.141 PPB
10)	o-XYLENE #2	14.11	10499	0.062 PPB

SY : MIBI BE
 S : ROMC LI
 Pa : GASOLINE
 H : MIBI
 H : GASOLINE
 H : BENZENE
 H : TOLUENE
 H : ETHYLBENZENE
 H : m,p-XYLENE
 H : o-XYLENE
 H : MIBI
 H : ROMC LI
 H : GASOLINE
 H : MIBI
 H : GASOLINE
 H : BENZENE
 H : TOLUENE
 H : ETHYLBENZENE
 H : m,p-XYLENE
 H : o-XYLENE

Quantitation Report (Not Reviewed)

Data File: X:\BTEX\HOPE\DATA\H211029\1029010.D
 Acq On: 29 Oct 2021 18:16
 Sample: 10-231-08h
 Misc:
 IntFile: EVENTS1.E

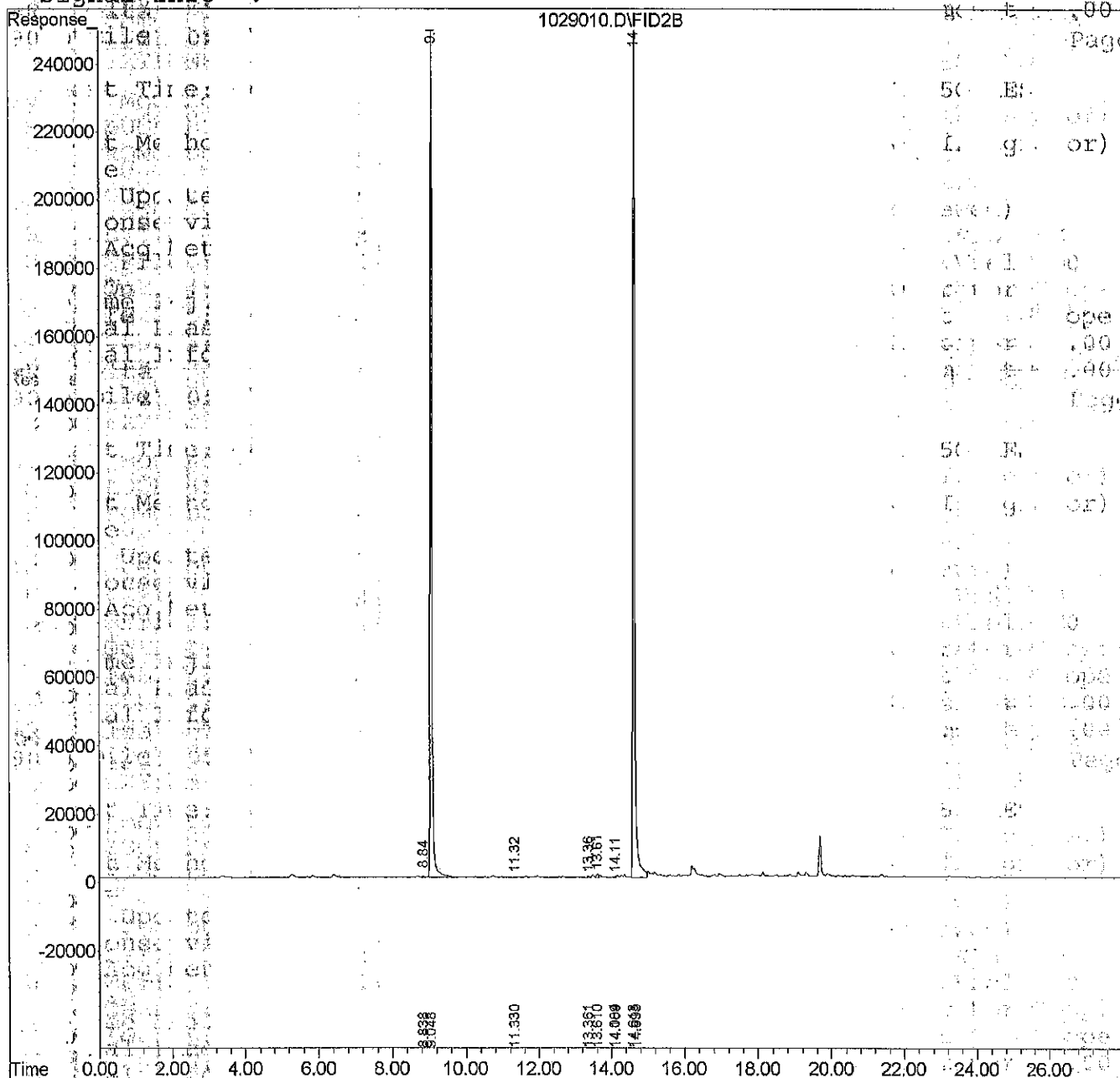
Vial: 10
 Operator:
 Inst: Hope
 Multiplr: 1.00
 Sample Amount: 0.00
 Page

Quant Time: Oct 29 18:42 2021 Quant Results File: 211025G.RES

Quant Method: E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title: Fid calibration
 Last Update: Wed Oct 27 10:57:49 2021
 Response via: Multiple Level Calibration
 DataAcq Meth: 211025G.M

Volume Inj:
 Signal Phase:
 Signal Info:

(evec)
 Vial: 10
 Operator:
 Operator: ope
 Sample: .00
 Sample: .00
 Page



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029002.D
Acq On : 29 Oct 2021 12:44
Sample : MB1029W1
Misc :

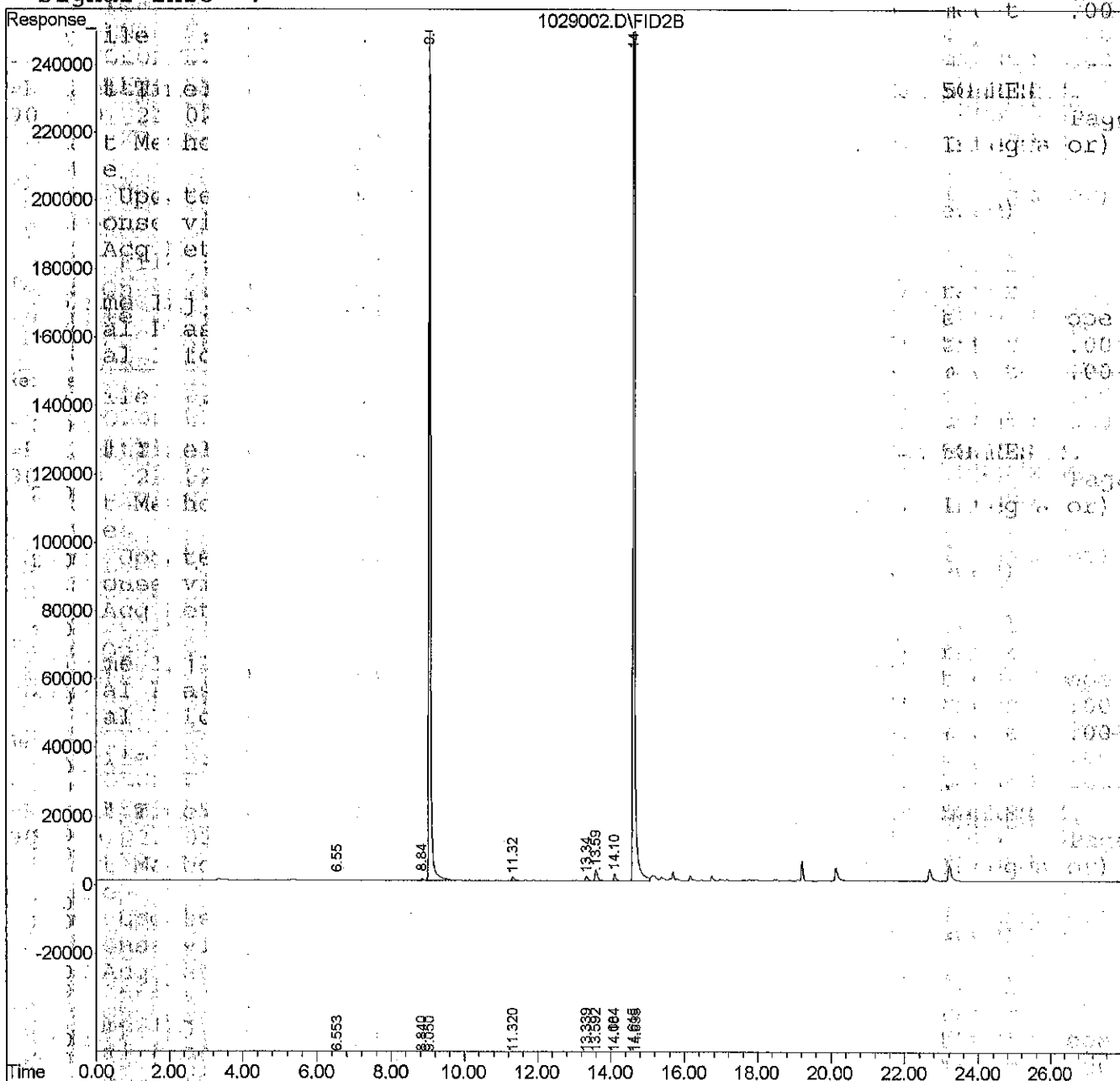
Vial: 2
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 13:10 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Oct 27 10:57:49 2021
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj :
Signal Phase :
Signal Info :



1 Data File: X:\BTEX\HOPE\DATA\H211029\1029004.D
 Acq On : 29 Oct 2021 14:45
 Sample : 10-231-01h
 Misc :

Vial: 4 Page
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 15:01 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Page
 Multiplr
 Amount

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	8871035	41.206 PPB (or)
11) S BROMOFLUOROBENZENE #2	14.62	12322103	43.933 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	6022795	0.022 PPM
3) H GASOLINE #2	14.70	4289859	0.020 PPM
4) MIBE #2	6.53	8727	0.069 PPB
5) BENZENE #2	8.84	27081	0.047 PPB
7) TOLUENE #2	11.32	37638	0.108 PPB
8) ETHYLBENZENE #2	13.35	26102	0.231 PPB
9) m,p-XYLENE #2	13.60	83803	0.274 PPB
10) o-XYLENE #2	14.11	26939	0.123 PPB

1	S	FLUOROBENZENE #2	9.05	8871035	41.206 PPB (or)
1	S	BROMOFLUOROBENZENE #2	14.62	12322103	43.933 PPB
2	H	Entire GAS Envelope #2	14.08	6022795	0.022 PPM
3	H	GASOLINE #2	14.70	4289859	0.020 PPM
4		MIBE #2	6.53	8727	0.069 PPB
5		BENZENE #2	8.84	27081	0.047 PPB
7		TOLUENE #2	11.32	37638	0.108 PPB
8		ETHYLBENZENE #2	13.35	26102	0.231 PPB
9		m,p-XYLENE #2	13.60	83803	0.274 PPB
10		o-XYLENE #2	14.11	26939	0.123 PPB

Quantitation Report (Not Reviewed)

Data File X:\BTEX\HOPE\DATA\H211029\1029004.D
Acq On 29 Oct 2021 14:45
Sample 10-231-01h
Misc

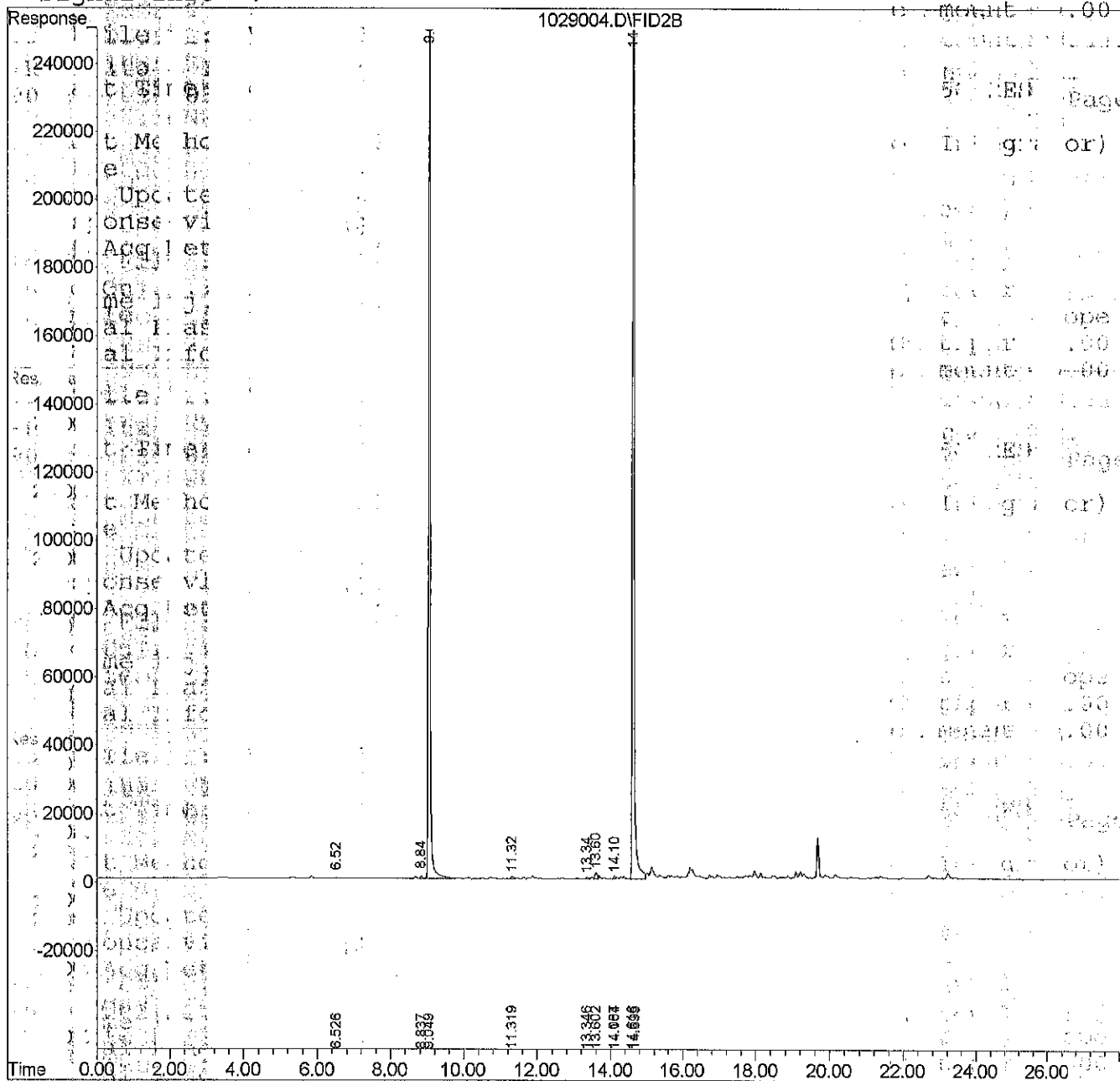
Vial: 4
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 15:01 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Oct 27 10:57:49 2021
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj :
Signal Phase :
Signal Info :



1 Data File: X:\BTEX\HOPE\DATA\H211029\1029005.D Vial: 5 Page 2
 Acq On : 29 Oct 2021 15:15 Operator:
 Sample : 10-231-01h DUP Inst: Hope
 Misc : Multiplr: 1.00
 IntFile : EVENTS1.E Sample Amount: 0.00

Quant Time: Oct 29 15:37 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.05	8836706	41.046 PPB
11) S BROMOFLUOROBENZENE #2	14.62	12211977	43.539 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	5540704	0.0181 PPM
3) H GASOLINE #2	14.70	3936537	0.0177 PPM
4) MTEB #2	6.53	6888	0.054 PPB
5) BENZENE #2	8.84	16938	0.014 PPB
7) TOLUENE #2	11.33	19607	0.047 PPB
8) ETHYLBENZENE #2	13.36	10472	0.173 PPB
9) m,p-XYLENE #2	13.61	51288	0.172 PPB
10) o-XYLENE #2	14.11	15124	0.080 PPB

3Y	FLUOROBENZENE	9.05	8836706	41.046 PPB
1	BROMOFLUOROBENZENE	14.62	12211977	43.539 PPB
Pa	ENTIRE GAS ENVELOPE	14.08	5540704	0.0181 PPM
H	GASOLINE	14.70	3936537	0.0177 PPM
	MTEB	6.53	6888	0.054 PPB
	BENZENE	8.84	16938	0.014 PPB
	TOLUENE	11.33	19607	0.047 PPB
	ETHYLBENZENE	13.36	10472	0.173 PPB
	m,p-XYLENE	13.61	51288	0.172 PPB
1	o-XYLENE	14.11	15124	0.080 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029005.D

Acq On : 29 Oct 2021 15:15

Sample : 10-231-01h DUP

Misc :

Vial: 5

Operator:

Inst : Hope

Multiplr: 1.00

Sample Amount: 0.00

IntFile: EVENTS1.E

Page

Quant Time: Oct 29 15:37 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)

Title : Fid calibration

Last Update : Wed Oct 27 10:57:49 2021

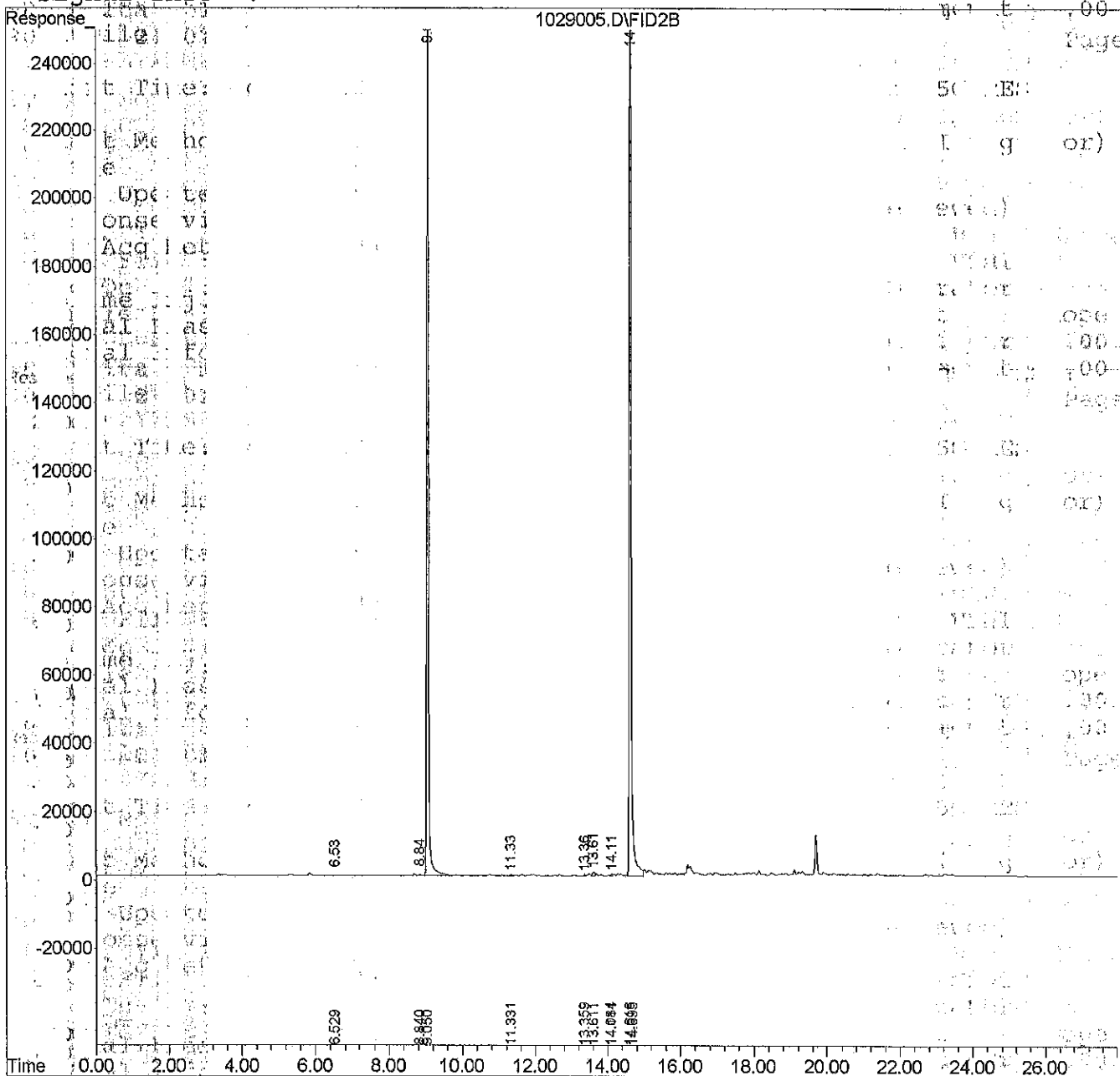
Response via : Multiple Level Calibration

DataAcq Meth : 211025G.M

Volume Inj. :

Signal Phase :

Signal Info :



Data File : X:\BTEX\HOPE\DATA\H211028\1028034.D
Acq On : 29 Oct 2021 11:14
Sample : CCVH1028G-1
Misc : V2-063-05

Vial: 34
Operator:
Inst: Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Oct 29 11:40 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Oct 27 10:57:49 2021
Response via : Initial Calibration
DataAcq Meth : 211025G.M

Volume Inj :
Signal Phase :
Signal Info :

Reviewed) Page 1
Vial: 4
Operator:
Inst: Hope
Multiplr: 1.00
Sample Amount: 0.00

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.04	9038320	41.984 PPB
11) S BROMOFLUOROBENZENE #2	14.61	13923956	49.670 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	364647032	2.493 PPM
3) H GASOLINE #2	14.70	319450773	2.548 PPM
4) MTBE #2	6.53	1341264	10.765 PPB
5) BENZENE #2	8.81	6241613	20.343 PPB
7) TOLUENE #2	11.26	67153108	227.059 PPB
8) ETHYLBENZENE #2	13.29	17052485	62.944 PPB
9) m,p-XYLENE #2	13.54	72755813	227.452 PPB
10) o-XYLENE #2	14.07	28315302	104.729 PPB

1) S	FLUOROBENZENE #2	9.04	9038320	41.984 PPB
1) S	BROMOFLUOROBENZENE #2	14.61	13923956	49.670 PPB
1) H	Entire GAS Envelope #2	14.08	364647032	2.493 PPM
1) H	GASOLINE #2	14.70	319450773	2.548 PPM
1) H	MTBE #2	6.53	1341264	10.765 PPB
1) H	BENZENE #2	8.81	6241613	20.343 PPB
1) H	TOLUENE #2	11.26	67153108	227.059 PPB
1) H	ETHYLBENZENE #2	13.29	17052485	62.944 PPB
1) H	m,p-XYLENE #2	13.54	72755813	227.452 PPB
1) H	o-XYLENE #2	14.07	28315302	104.729 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211028\1028034.D
Acq On : 29 Oct 2021 11:14
Sample : CCVH1028G-1
Misc : V2-063-05
IntFile : EVENTS1.E

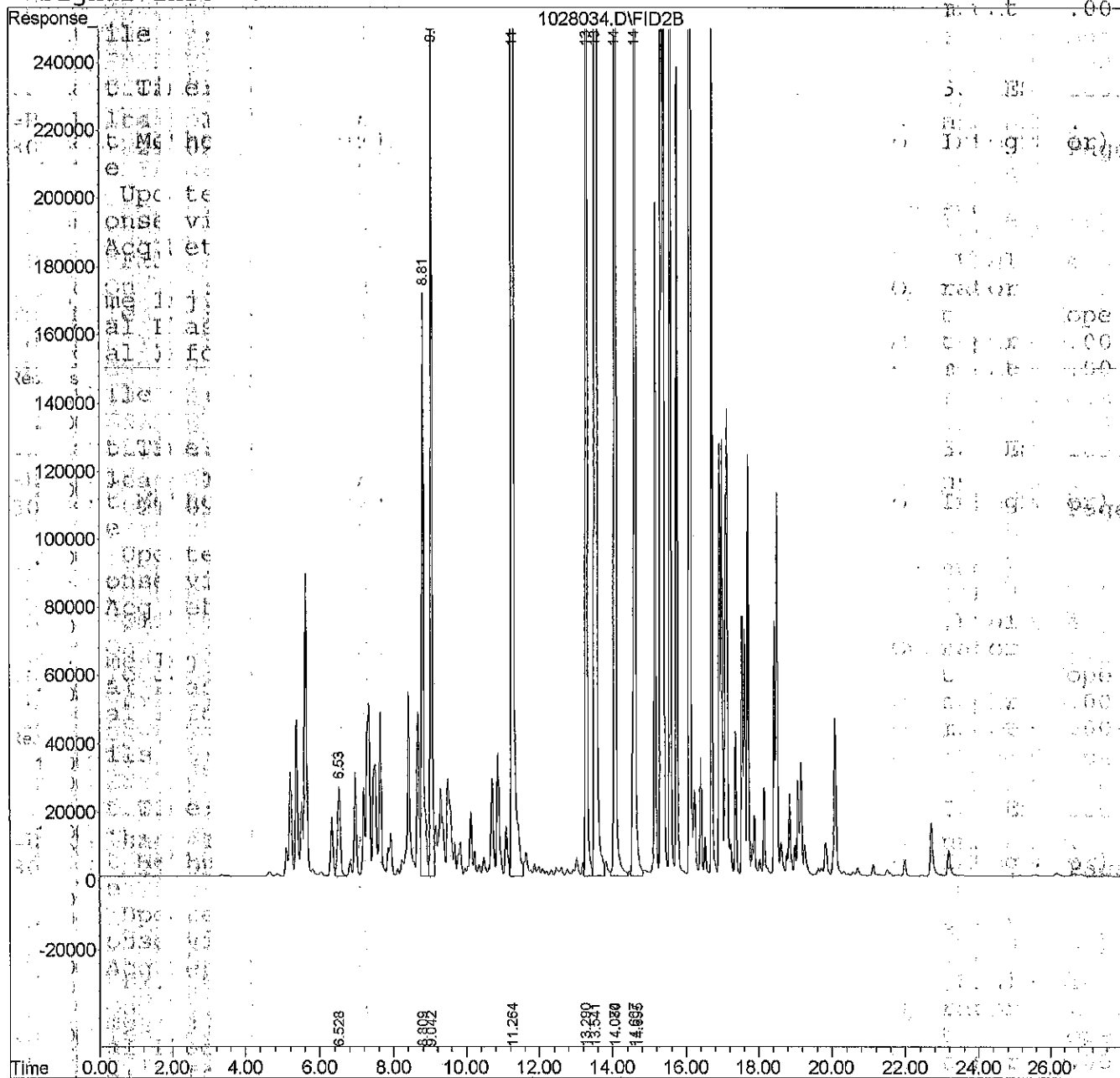
Vial: 34
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Oct 29 11:40 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Oct 27 10:57:49 2021
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj :
Signal Phase :
Signal Info :

Vial 4
Operator
Multiplr 1.00
Sample Amount 0.00



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H211029\1029011.D
 Acq On : 29 Oct 2021 19:02
 Sample : CCVH1029G-1
 Misc : V2-063-05
 IntFile : 0: EVENTS1.E

Vial: 11
 Operator:
 Inst : Hope
 Multiplr: 10.00
 Sample Amount: 0.00
 Page

Quant Time: Oct 29 19:18 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :

Vial 11
 Operator
 Inst Hope
 Multiplr 10.00
 Sample Amount 0.00
 Page

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.04	9037902	41.982 PPB
11) S BROMOFLUOROBENZENE #2	14.61	14008036	49.971 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	370668730	2.534 PPM
3) H GASOLINE #2	14.70	323537428	2.581 PPM
4) MTBE #2	6.53	1373230	11.021 PPB
5) BENZENE #2	8.81	6296237	20.521 PPB
7) TOLUENE #2	11.26	66437222	224.638 PPB
8) ETHYLBENZENE #2	13.29	17065732	62.992 PPB
9) m,p-XYLENE #2	13.54	72201379	225.719 PPB
10) o-XYLENE #2	14.07	27944885	103.360 PPB

6) S	FLUOROBENZENE #2	9.04	9037902	41.982 PPB
11) S	BROMOFLUOROBENZENE #2	14.61	14008036	49.971 PPB
2) H	Entire GAS Envelope #2	14.08	370668730	2.534 PPM
3) H	GASOLINE #2	14.70	323537428	2.581 PPM
4)	MTBE #2	6.53	1373230	11.021 PPB
5)	BENZENE #2	8.81	6296237	20.521 PPB
7)	TOLUENE #2	11.26	66437222	224.638 PPB
8)	ETHYLBENZENE #2	13.29	17065732	62.992 PPB
9)	m,p-XYLENE #2	13.54	72201379	225.719 PPB
10)	o-XYLENE #2	14.07	27944885	103.360 PPB

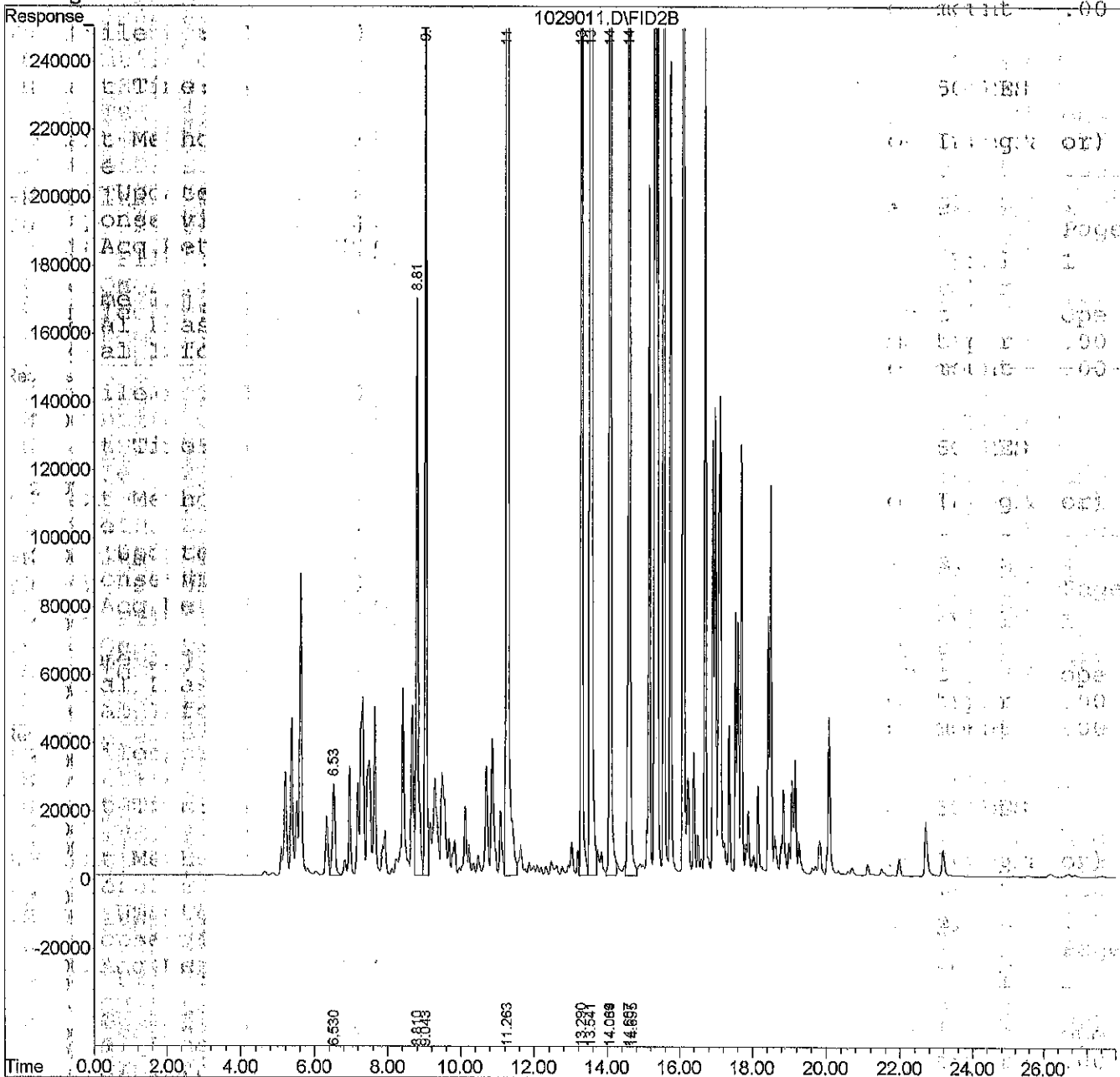
Data File : X:\BTEX\HOPE\DATA\H211029\1029011.D
 Acq On : 29 Oct 2021 19:02
 Sample : CCVH1029G-1
 Misc : V2-063-05
 IntFile : EVENTS1.E

Vial: 11
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Oct 29 19:18 2021 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:57:49 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : 211025G.M

Volume Inj :
 Signal Phase :
 Signal Info :



Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029001.D\FID1A.CH Vial: 1

Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029001.D\FID2B.CH

Acq On : 29 Oct 2021 10:28

Operator:

Sample : CCVD1029G-1

Inst : Daryl

Misc :

Multiplr: 1.00

Sample Amount: 0.00

IntFile Signal #1: events.e

IntFile Signal #2: EVENTS2.E

Quant Time: Oct 29 10:50 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)

Title : Fid calibration

Last Update : Wed Oct 27 10:05:53 2021

Response via : Initial Calibration

DataAcq Meth : 211026B.M

Volume Inj: :

Signal #1 Phase :

Signal #2 Phase:

Signal #1 Info :

Signal #2 Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

4) S	FLUOROBENZENE	6.88	2081268	45.505 PPB
5) S	BROMOFLUOROBENZENE	12.21	1568609	60.599 PPB
12) S	FLUOROBENZENE #2	6.88	3109967	44.560 PPB
17) S	BROMOFLUOROBENZENE #2	12.21	4834831	52.996 PPB

Target Compounds

1) H	HAWAII GRO C-5-C12 RANGES	8.50	109900541	2.523 PPM
2) H	Entire GAS Envelope	12.20	113135326	2.535 PPM
3) H	GASOLINE	13.50	71895700	2.676 PPM
7) H	MINERAL SPIRITS #2 (10-12-	12.23	92713974	2.076 PPM
8) H	entire GAS envelope #2	12.20	139629897	2.703 PPM
9) H	GASOLINE #2	13.50	119534378	2.749 PPM
10) S	MTBE #2	4.52	940391	17.467 PPB
11) S	BENZENE #2	6.64	2934759	28.669 PPB
13) S	TOLUENE #2	9.01	25884497	273.313 PPB
14) S	ETHYLBENZENE #2	10.96	5733248	69.873 PPB
15) S	m-xYLENE #2	11.22	27365186	276.029 PPB
16) S	o-xYLENE #2	11.71	10044109	112.261 PPB

1) H AWA

2) H DCI

3) H ASOL NE

4) H INE

5) H ntl

6) H ASOL NE

1) H TBE

2) H BNE

3) H TOLU

4) H ETHY

5) H m-x

6) H o-x

1) H AWA

2) H DCI

3) H ASOL NE

(f)=RT Delta >=1/2 Window

(m)=manual int

Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029001.D\FID1A.CH Vial: 1

Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029001.D\FID2B.CH

Acq On : 29 Oct 2021 10:28

Operator:

Sample : CCVD1029G-1

Inst : Daryl

Misc :

Multiplr: 1.00

Sample Amount: 0.00

IntFile Signal #1: events.e

IntFile Signal #2: EVENTS2.E

Quant Time: Oct 29 10:50 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)

Title : Fid calibration

Last Update : Wed Oct 27 10:05:53 2021

Response via : Multiple Level Calibration

DataAcq Meth : 211026B.M

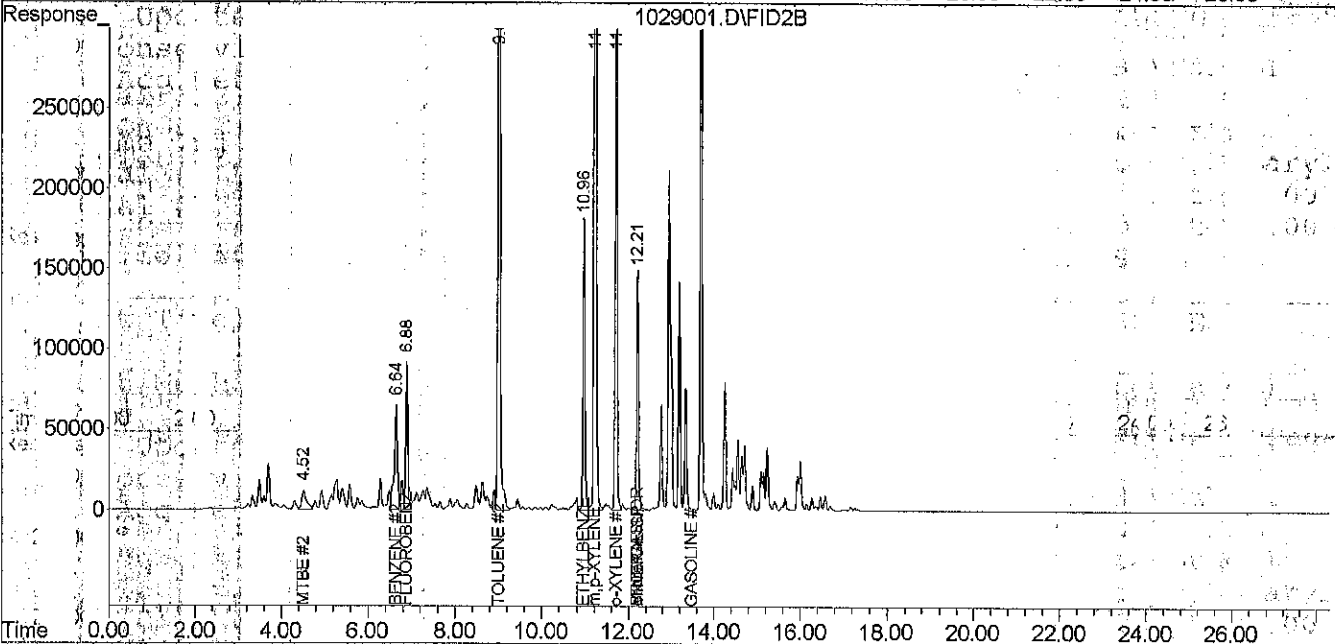
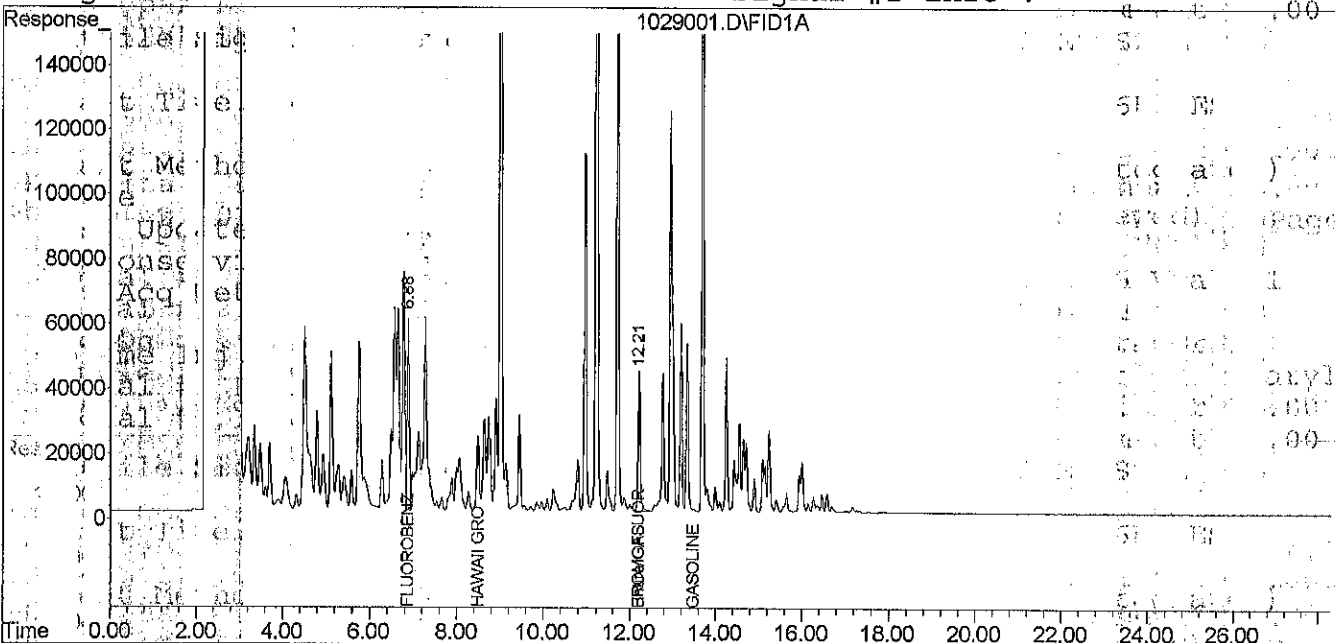
Volume Inj. :

Signal #1 Phase :

Signal #2 Phase:

Signal #1 Info :

Signal #2 Info :



Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029044.D\FID1A.CH Vial: 44
 Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029044.D\FID2B.CH
 Acq On : 30 Oct 2021 11:53 Operator:
 Sample : CCVD1029G-2 Inst : Daryl
 Misc : V2-063-05 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Oct 30 12:15 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Oct 27 10:05:53 2021
 Response via : Initial Calibration
 DataAcq Meth : 211026B.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase :
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE	6.86	1693007	37.041 PPB
5) S BROMOFLUOROBENZENE	12.20	1419336	54.860 PPB
12) S FLUOROBENZENE #2	6.86	2491255	35.694 PPB
17) S BROMOFLUOROBENZENE #2	12.20	4289804	47.038 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.50	105101675	2.412 PPM
2) H Entire GAS Envelope	12.20	107532865	2.407 PPM
3) H GASOLINE	13.50	69725713	2.594 PPM
7) H MINERAL SPIRITS #2 (10-12-	12.23	88683837	1.987 PPM
8) H entire GAS envelope #2	12.20	132959465	2.573 PPM
9) H GASOLINE #2	13.50	115244956	2.650 PPM
10) MTBE #2	0.00	0	N.D. PPB
11) BENZENE #2	6.62	2304913	22.512 PPB
13) TOLUENE #2	8.99	25785413	272.267 PPB
14) ETHYLBENZENE #2	10.95	5725261	69.775 PPB
15) m,p-XYLENE #2	11.20	27531099	277.702 PPB
16) o-XYLENE #2	11.70	10207902	114.091 PPB

Compound	R.T.	Response	Conc Units
1) H AWA			
2) H ntl			
3) H ASOL			
4) H INEI			
5) H ntl			
6) H ASOL			
7) H THE			
8) H ENK			
9) H LLO			
10) H THY			
11) H PUC			
12) H XVI			

Signal #1 : X:\BTEX\DARYL\DATA\D211029\1029044.D\FID1A.CH Vial: 44
 Signal #2 : X:\BTEX\DARYL\DATA\D211029\1029044.D\FID2B.CH
 Acq On : 30 Oct 2021 11:53 Operator:
 Sample : CCVD1029G-2 Inst : Daryl
 Misc : V2-063-05 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Oct 30 12:15 2021 Quant Results File: 211026B.RES

Quant Method : E:\BTEX\METHODS\211026B.M (Chemstation Integrator)

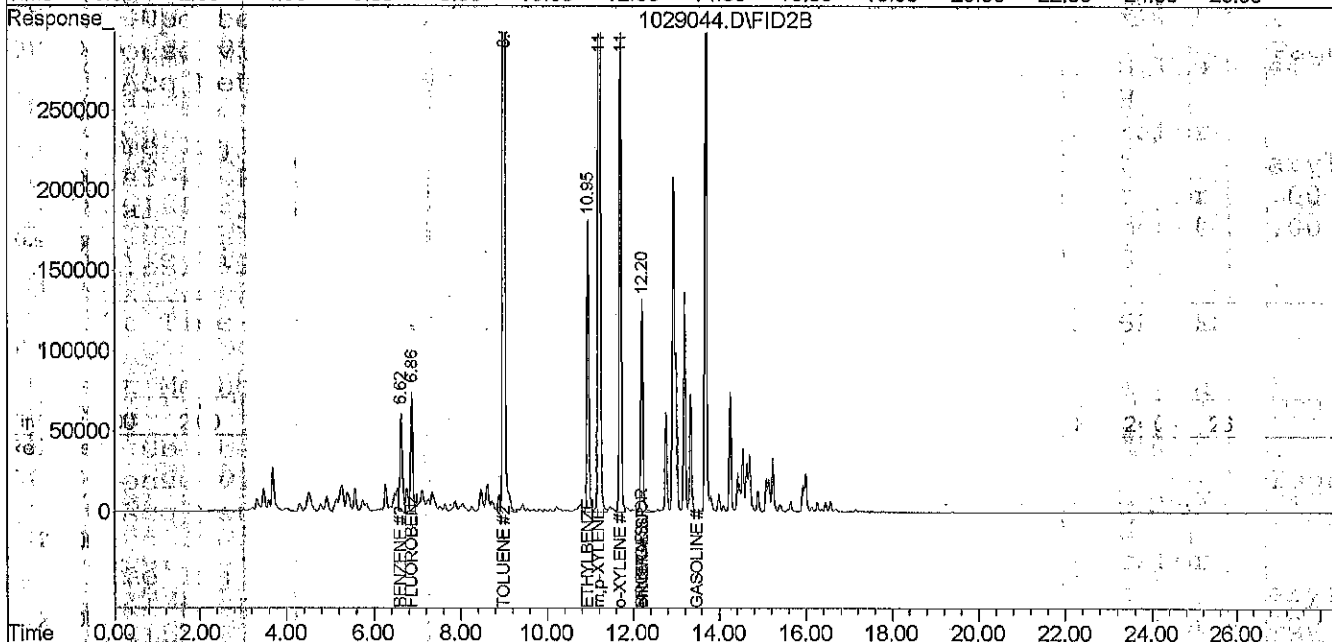
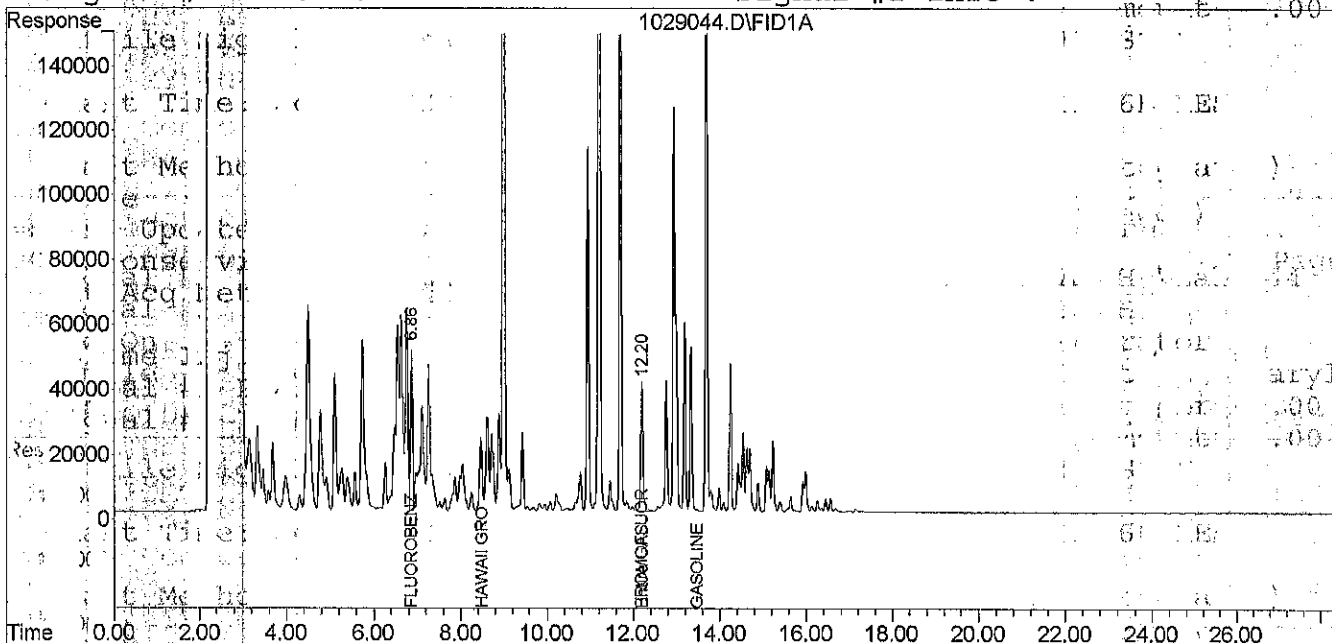
Title : Fid calibration

Last Update : Wed Oct 27 10:05:53 2021

Response via : Multiple Level Calibration

DataAcq Meth : 211026B.M

Volume Inj :
 Signal #1 Phase : Signal #2 Phase :
 Signal #1 Info : Signal #2 Info :



Diesel and Heavy Oil Range Organics
NWTPH-Dx Data

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T27.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 2:33
 Operator : JP
 Sample : 10-231-01
 Misc : Sample
 ALS Vial : 27 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 03:07:58 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.727	129481355	48.450 PPM
Spiked Amount	50.000	Recovery = 96.90%	

Target Compounds

2) H Gasoline	3.500	16929068	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	247086251	94.952 PPM
4) H Diesel Fuel #2 (02-0...	14.000	344956117	143.564 PPM
5) H Oil (08-13-21)	22.000	268387344	120.024 PPM
6) H Oil Acid Clean (08-...	22.000	268387344	78.326 PPM
7) H Diesel Fuel #2 Combo ...	14.000	300404160	128.590 PPM
8) H Oil Combo (08-13-21)	22.000	208530162	87.689 PPM
9) H Oil Acid Clean Combo ...	22.000	208530162	52.214 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	341232698	143.258 PPM
11) H HAWAII 8015M Oil (08-...	22.000	166767989	70.868 PPM
12) H Mineral Oil (02-08-21)	16.000	366130453	149.865 PPM
13) H Mineral Oil Combo (0...	16.000	296704414	128.210 PPM
14) H Oil MO Combo (08-13--21)	22.000	173332620	69.482 PPM
15) H Oil Acid Clean MO Com...	22.000	173332620	37.509 PPM
16) H Hydraulic Oil (02-08-21)	15.000	423484704	88.114 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	344956117	123.236 PPM
18) H Diesel Fuel #2 ACU co...	14.000	300404160	110.400 PPM
19) H JP-4 (04-08-21)	8.000	108020945	70.008 PPM
20) H JP-5 (04-08-21)	8.000	96473772	38.276 PPM
21) H JP-8 (04-08-21)	8.000	171163860	72.008 PPM

(f)=RT Delta > 1/2 Window

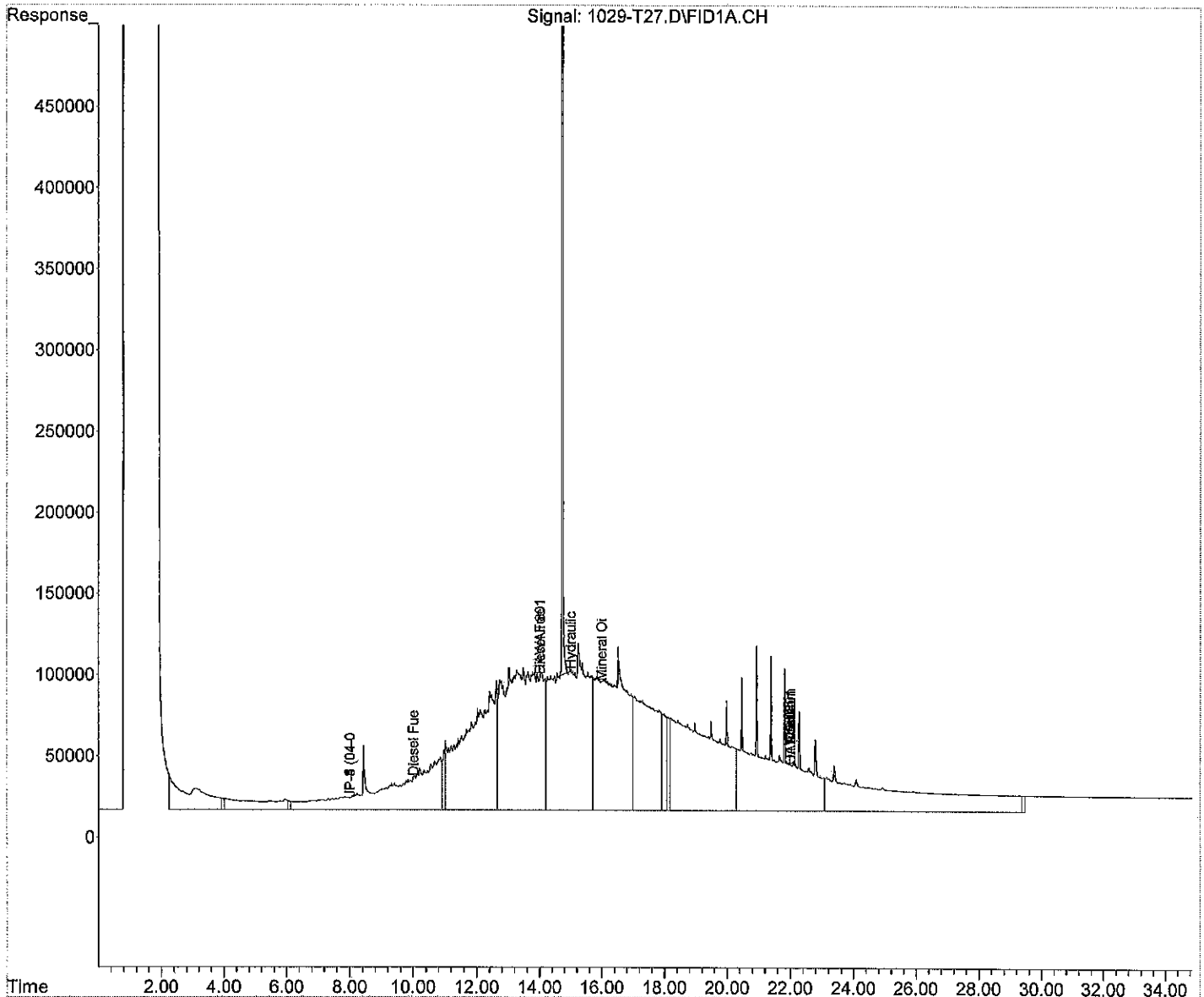
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T27.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 2:33
Operator : JP
Sample : 10-231-01
Misc : Sample
ALS Vial : 27 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 03:07:58 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T28.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 3:14
 Operator : JP
 Sample : 10-231-02
 Misc : Sample
 ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 03:49:48 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.727	125183884	46.848 PPM
Spiked Amount	50.000	Recovery = 93.70%	

Target Compounds

2) H Gasoline	3.500	16603371	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	218388952	83.772 PPM
4) H Diesel Fuel #2 (02-0...	14.000	300910579	125.099 PPM
5) H Oil (08-13-21)	22.000	257081535	113.295 PPM
6) H Oil Acid Clean (08-...	22.000	257081535	72.907 PPM
7) H Diesel Fuel #2 Combo ...	14.000	262323890	112.163 PPM
8) H Oil Combo (08-13-21)	22.000	206488327	86.454 PPM
9) H Oil Acid Clean Combo ...	22.000	206488327	51.219 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	297614421	124.816 PPM
11) H HAWAII 8015M Oil (08-...	22.000	170272634	72.947 PPM
12) H Mineral Oil (02-08-21)	16.000	315152109	128.633 PPM
13) H Mineral Oil Combo (0...	16.000	250854620	108.288 PPM
14) H Oil MO Combo (08-13--21)	22.000	176113685	71.208 PPM
15) H Oil Acid Clean MO Com...	22.000	176113685	38.900 PPM
16) H Hydraulic Oil (02-08-21)	15.000	375836817	78.342 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	300910579	107.177 PPM
18) H Diesel Fuel #2 ACU co...	14.000	262323890	96.100 PPM
19) H JP-4 (04-08-21)	8.000	103851181	67.181 PPM
20) H JP-5 (04-08-21)	8.000	92360674	36.621 PPM
21) H JP-8 (04-08-21)	8.000	154004306	64.703 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\

Data File : 1029-T28.D

Signal(s) : FID1A.CH

Acq On : 30 Oct 2021 3:14

Operator : JP

Sample : 10-231-02

Misc : Sample

ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e

Quant Time: Oct 30 03:49:48 2021

Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M

Quant Title : GCTPH

QLast Update : Fri Oct 15 12:18:31 2021

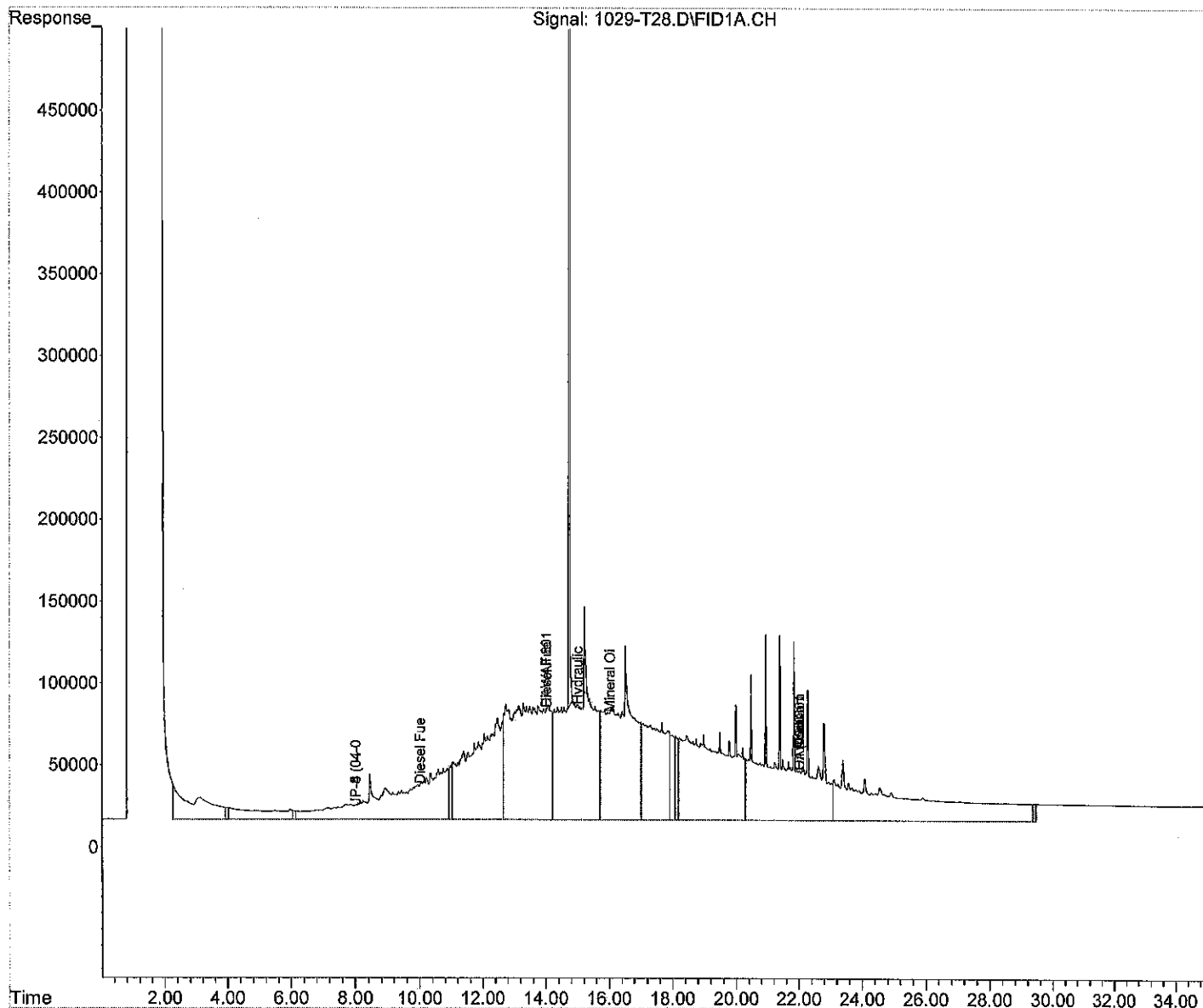
Response via : Initial Calibration

Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :

Signal Phase :

Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T29.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 3:56
 Operator : JP
 Sample : 10-231-03
 Misc : Sample
 ALS Vial : 29 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 04:31:57 2021
 Quant Method : C:\MSDCHEM1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	135269009	50.606 PPM
Spiked Amount	50.000	Recovery = 101.21%	

Target Compounds

2) H Gasoline	3.500	17351556	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	87698205	32.858 PPM
4) H Diesel Fuel #2 (02-0...	14.000	113095555	46.362 PPM
5) H Oil (08-13-21)	22.000	156248457	53.288 PPM
6) H Oil Acid Clean (08-...	22.000	156248457	24.581 PPM
7) H Diesel Fuel #2 Combo ...	14.000	97710647	41.153 PPM
8) H Oil Combo (08-13-21)	22.000	138630387	45.405 PPM
9) H Oil Acid Clean Combo ...	22.000	138630387	18.145 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	111460104	46.110 PPM
11) H HAWAII 8015M Oil (08-...	22.000	123937908	45.468 PPM
12) H Mineral Oil (02-08-21)	16.000	117638857	46.371 PPM
13) H Mineral Oil Combo (0...	16.000	83990825	35.787 PPM
14) H Oil MO Combo (08-13--21)	22.000	126913059	40.679 PPM
15) H Oil Acid Clean MO Com...	22.000	126913059	14.301 PPM
16) H Hydraulic Oil (02-08-21)	15.000	162684059	34.626 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	113095555	38.703 PPM
18) H Diesel Fuel #2 ACU co...	14.000	97710647	34.284 PPM
19) H JP-4 (04-08-21)	8.000	58856292	36.671 PPM
20) H JP-5 (04-08-21)	8.000	47804451	18.696 PPM
21) H JP-8 (04-08-21)	8.000	66119832	27.287 PPM

(f)=RT Delta > 1/2 Window

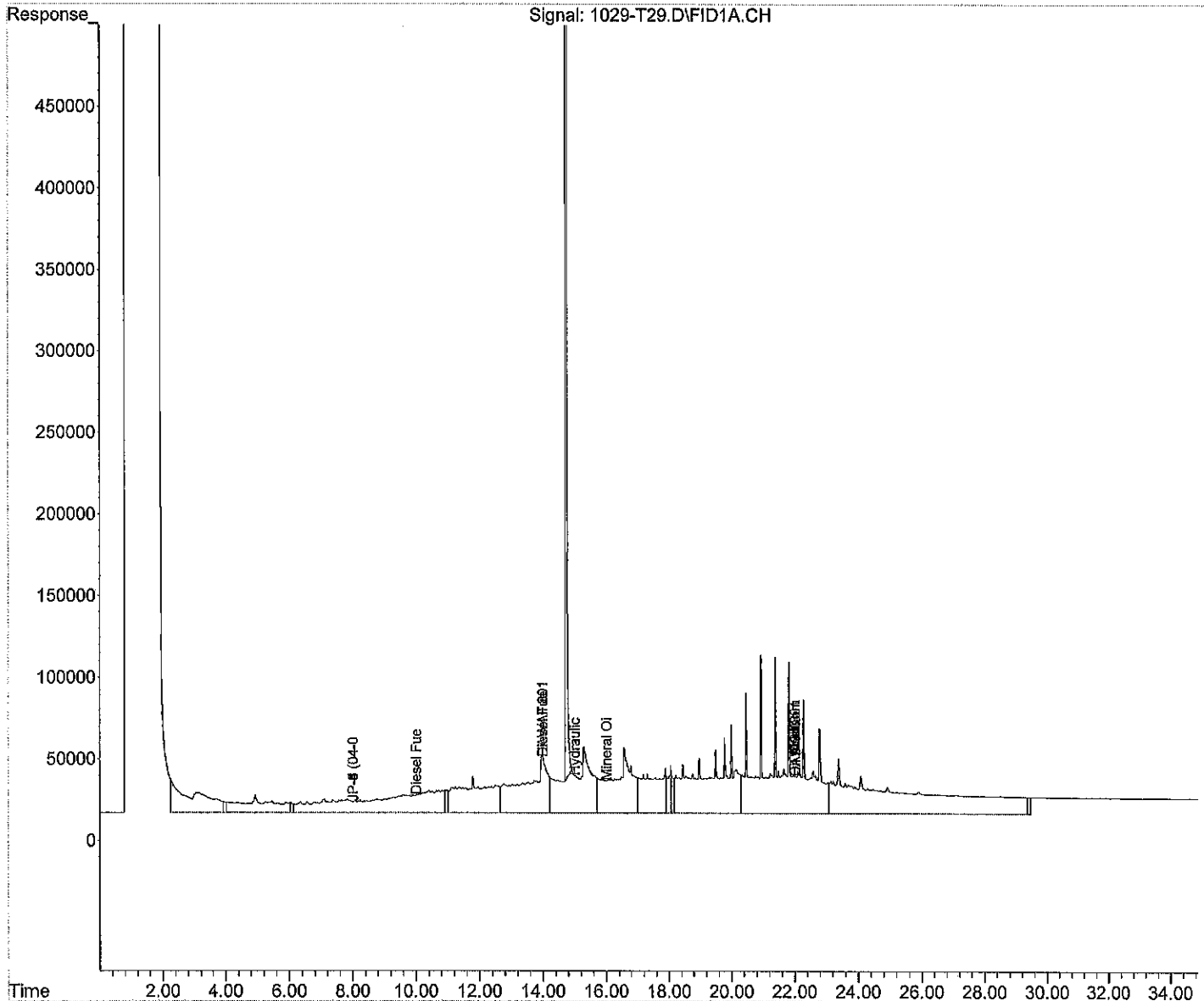
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T29.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 3:56
Operator : JP
Sample : 10-231-03
Misc : Sample
ALS Vial : 29 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 04:31:57 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T30.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 4:38
 Operator : JP
 Sample : 10-231-04
 Misc : Sample
 ALS Vial : 30 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 05:13:52 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.727	127652638	47.768 PPM
Spiked Amount	50.000	Recovery = 95.54%	

Target Compounds

2) H Gasoline	3.500	33465726	NoCal PPM
3) H Diesel Fuel #1 (02-0-...	10.000	209722025	80.396 PPM
4) H Diesel Fuel #2 (02-0-...	14.000	282097864	117.213 PPM
5) H Oil (08-13-21)	22.000	240787761	103.599 PPM
6) H Oil Acid Clean (08-...	22.000	240787761	65.098 PPM
7) H Diesel Fuel #2 Combo ...	14.000	244520532	104.483 PPM
8) H Oil Combo (08-13-21)	22.000	192549810	78.022 PPM
9) H Oil Acid Clean Combo ...	22.000	192549810	44.425 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	278688813	116.815 PPM
11) H HAWAII 8015M Oil (08-...	22.000	157241998	65.219 PPM
12) H Mineral Oil (02-08-21)	16.000	279521394	113.793 PPM
13) H Mineral Oil Combo (0...	16.000	219118602	94.499 PPM
14) H Oil MO Combo (08-13--21)	22.000	162939037	63.033 PPM
15) H Oil Acid Clean MO Com...	22.000	162939037	32.313 PPM
16) H Hydraulic Oil (02-08-21)	15.000	332738380	69.503 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	282097864	100.319 PPM
18) H Diesel Fuel #2 ACU co...	14.000	244520532	89.415 PPM
19) H JP-4 (04-08-21)	8.000	126027584	82.218 PPM
20) H JP-5 (04-08-21)	8.000	102969135	40.889 PPM
21) H JP-8 (04-08-21)	8.000	151767604	63.751 PPM

(f)=RT Delta > 1/2 Window

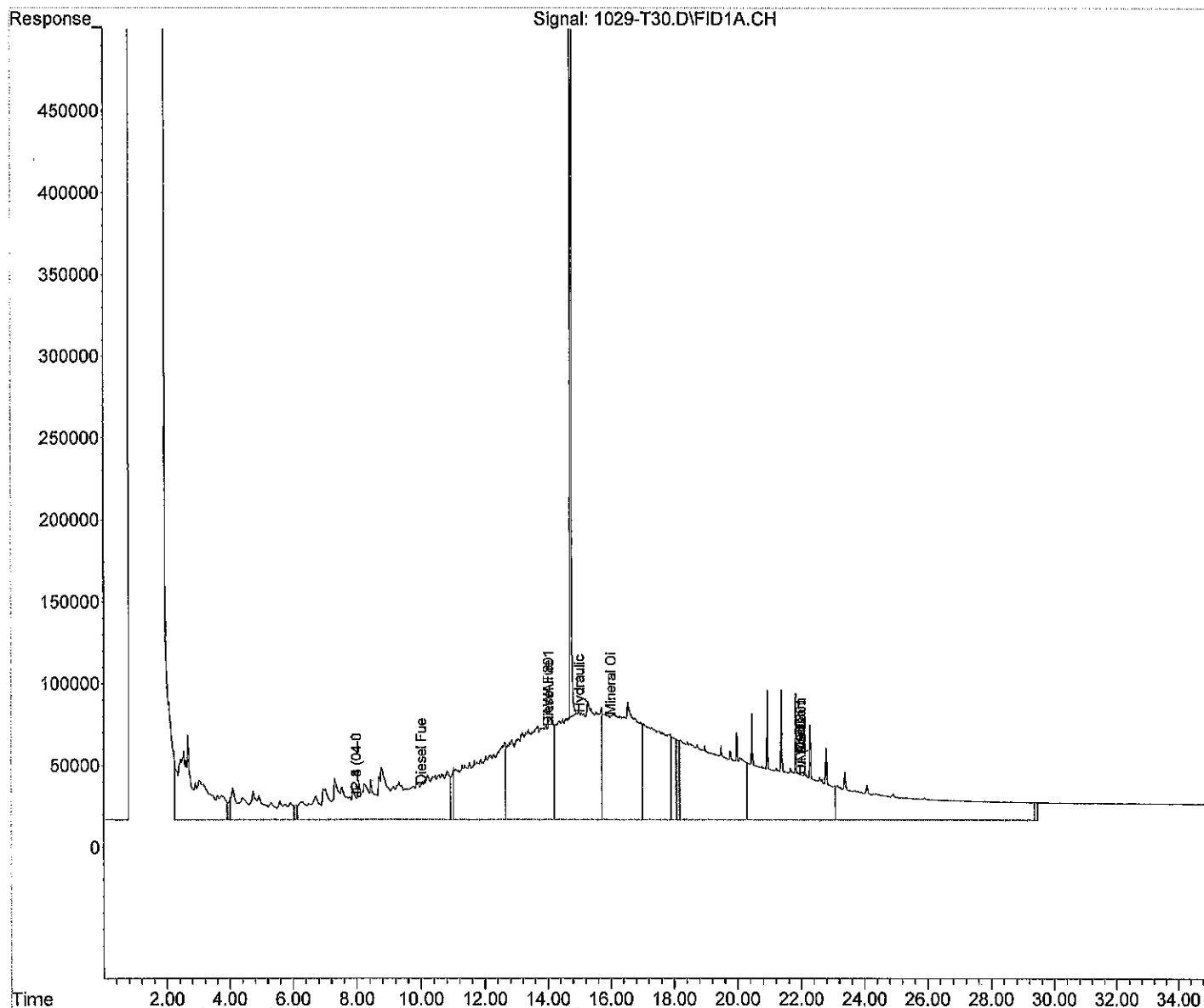
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T30.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 4:38
Operator : JP
Sample : 10-231-04
Misc : Sample
ALS Vial : 30 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 05:13:52 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T31.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 5:21
 Operator : JP
 Sample : 10-231-05
 Misc : Sample
 ALS Vial : 31 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 05:56:00 2021
 Quant Method : C:\MSDCHEM1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.728	138417077	51.780 PPM
Spiked Amount	50.000	Recovery =	103.56%

Target Compounds

2) H Gasoline	3.500	21427996	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	169563399	64.751 PPM
4) H Diesel Fuel #2 (02-0...	14.000	263127071	109.259 PPM
5) H Oil (08-13-21)	22.000	300417119	139.085 PPM
6) H Oil Acid Clean (08-...	22.000	300417119	93.677 PPM
7) H Diesel Fuel #2 Combo ...	14.000	216953035	92.591 PPM
8) H Oil Combo (08-13-21)	22.000	244726349	109.584 PPM
9) H Oil Acid Clean Combo ...	22.000	244726349	69.856 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	259079305	108.524 PPM
11) H HAWAII 8015M Oil (08-...	22.000	201557509	91.501 PPM
12) H Mineral Oil (02-08-21)	16.000	300332822	122.461 PPM
13) H Mineral Oil Combo (0...	16.000	219699326	94.752 PPM
14) H Oil MO Combo (08-13-21)	22.000	208652382	91.398 PPM
15) H Oil Acid Clean MO Com...	22.000	208652382	55.167 PPM
16) H Hydraulic Oil (02-08-21)	15.000	369978557	77.140 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	263127071	93.402 PPM
18) H Diesel Fuel #2 ACU co...	14.000	216953035	79.062 PPM
19) H JP-4 (04-08-21)	8.000	83640284	53.476 PPM
20) H JP-5 (04-08-21)	8.000	68679364	27.094 PPM
21) H JP-8 (04-08-21)	8.000	111275396	46.512 PPM

(f)=RT Delta > 1/2 Window

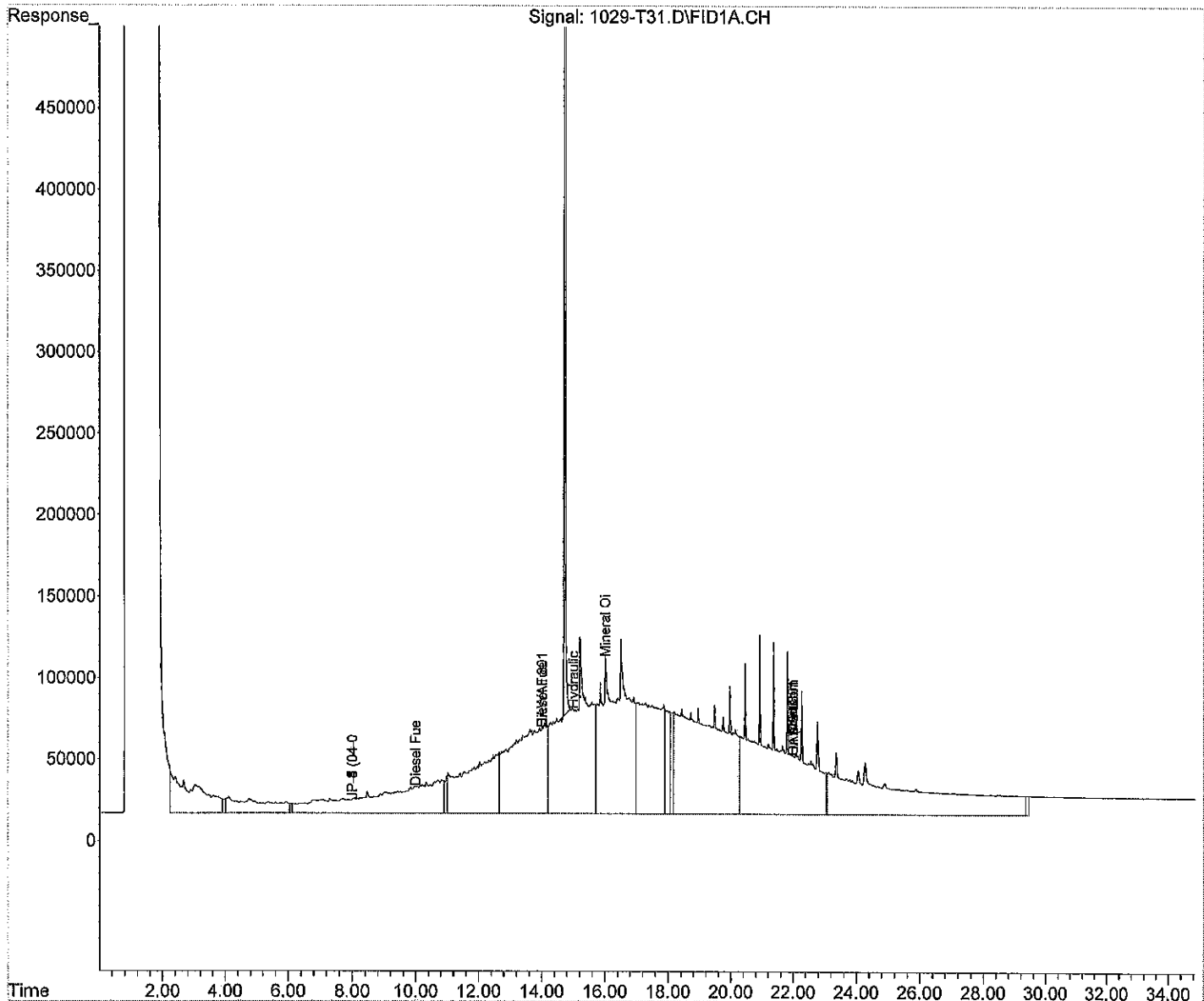
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T31.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 5:21
Operator : JP
Sample : 10-231-05
Misc : Sample
ALS Vial : 31 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 05:56:00 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T32.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 6:02
 Operator : JP
 Sample : 10-231-06
 Misc : Sample
 ALS Vial : 32 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 06:37:50 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.727	125324246	46.901 PPM
Spiked Amount	50.000	Recovery = 93.80%	

Target Compounds

2) H Gasoline	3.500	14490520	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	40510233	14.475 PPM
4) H Diesel Fuel #2 (02-0...	14.000	53576080	21.410 PPM
5) H Oil (08-13-21)	22.000	107036372	24.002 PPM
6) H Oil Acid Clean (08-...	22.000	107036372	0.995 PPM
7) H Diesel Fuel #2 Combo ...	14.000	44630850	18.256 PPM
8) H Oil Combo (08-13-21)	22.000	97217528	20.354 PPM
9) H Oil Acid Clean Combo ...	22.000	97217528	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	52626100	21.234 PPM
11) H HAWAII 8015M Oil (08-...	22.000	88408060	24.396 PPM
12) H Mineral Oil (02-08-21)	16.000	58449506	21.720 PPM
13) H Mineral Oil Combo (0...	16.000	40192379	16.757 PPM
14) H Oil MO Combo (08-13-21)	22.000	90283128	17.950 PPM
15) H Oil Acid Clean MO Com...	22.000	90283128	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	88200811	19.350 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	53576080	17.003 PPM
18) H Diesel Fuel #2 ACU co...	14.000	44630850	14.351 PPM
19) H JP-4 (04-08-21)	8.000	33782085	19.669 PPM
20) H JP-5 (04-08-21)	8.000	23165893	8.783 PPM
21) H JP-8 (04-08-21)	8.000	29790245	11.821 PPM

(f)=RT Delta > 1/2 Window

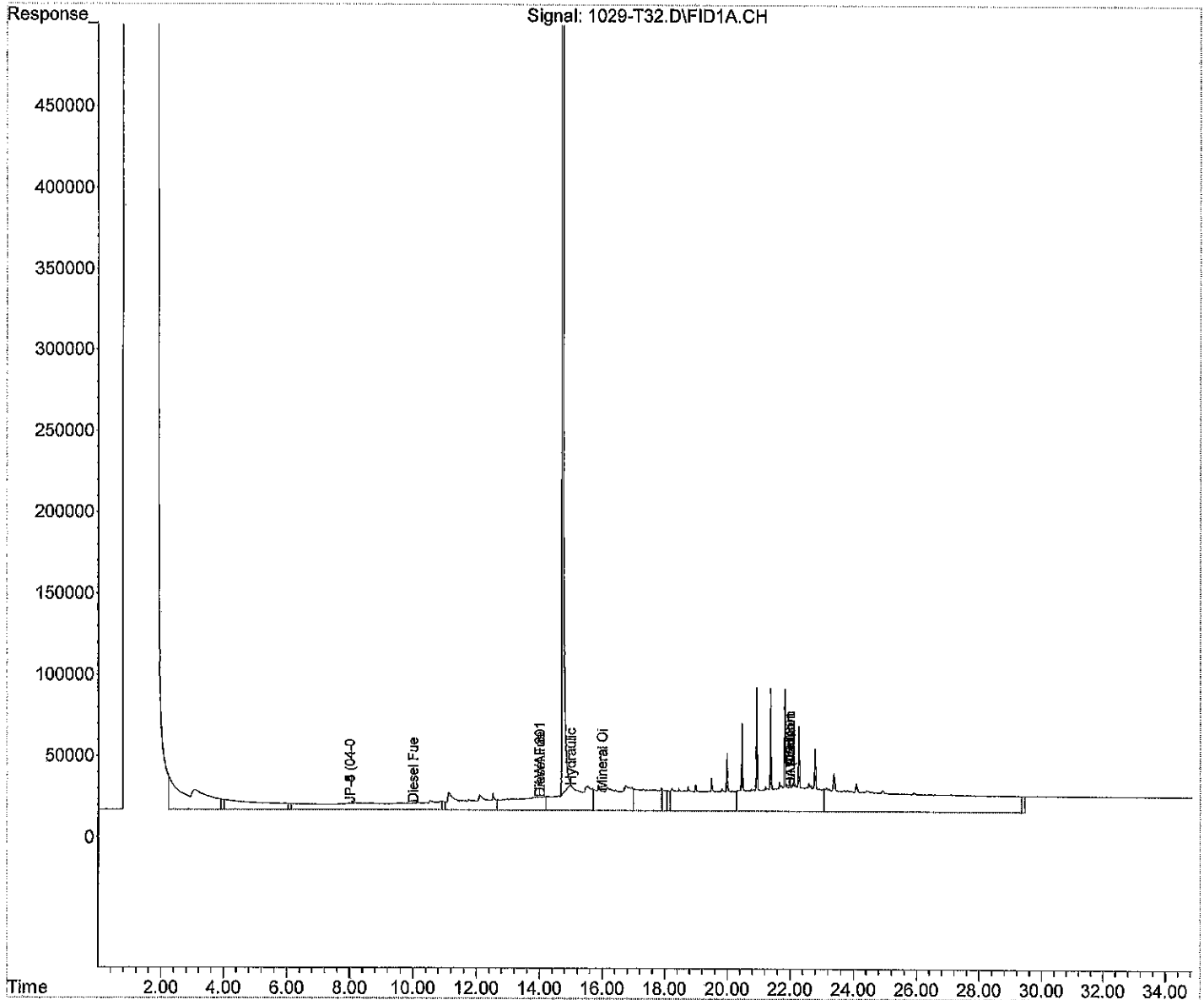
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T32.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 6:02
Operator : JP
Sample : 10-231-06
Misc : Sample
ALS Vial : 32 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 06:37:50 2021
Quant Method : C:\MSDCHEM1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T33.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 6:45
 Operator : JP
 Sample : 10-231-07
 Misc : Sample
 ALS Vial : 33 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 07:20:07 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	141576334	52.957 PPM
Spiked Amount	50.000	Recovery =	105.91%

Target Compounds

2) H Gasoline	3.500	24307490	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	636148411	246.522 PPM
4) H Diesel Fuel #2 (02-0...	14.000	827157723	345.716 PPM
5) H Oil (08-13-21)	22.000	534256732	278.246 PPM
6) H Oil Acid Clean (08-...	22.000	534256732	205.749 PPM
7) H Diesel Fuel #2 Combo ...	14.000	733933414	315.604 PPM
8) H Oil Combo (08-13-21)	22.000	426549436	219.572 PPM
9) H Oil Acid Clean Combo ...	22.000	426549436	158.477 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	818935017	345.233 PPM
11) H HAWAII 8015M Oil (08-...	22.000	340088618	173.658 PPM
12) H Mineral Oil (02-08-21)	16.000	768531572	317.460 PPM
13) H Mineral Oil Combo (0...	16.000	607162291	263.101 PPM
14) H Oil MO Combo (08-13--21)	22.000	354016378	181.596 PPM
15) H Oil Acid Clean MO Com...	22.000	354016378	127.843 PPM
16) H Hydraulic Oil (02-08-21)	15.000	887326138	183.243 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	827157723	299.038 PPM
18) H Diesel Fuel #2 ACU co...	14.000	733933414	273.202 PPM
19) H JP-4 (04-08-21)	8.000	377800833	252.938 PPM
20) H JP-5 (04-08-21)	8.000	363494140	145.700 PPM
21) H JP-8 (04-08-21)	8.000	505431789	214.318 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T34.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 7:27
 Operator : JP
 Sample : 10-231-08
 Misc : Sample
 ALS Vial : 34 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 08:02:00 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.728	133018232	49.768 PPM
Spiked Amount	50.000	Recovery = 99.54%	

Target Compounds

2) H Gasoline	3.500	17389244	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	255594464	98.267 PPM
4) H Diesel Fuel #2 (02-0...	14.000	361310079	150.420 PPM
5) H Oil (08-13-21)	22.000	320060833	150.775 PPM
6) H Oil Acid Clean (08-...	22.000	320060833	103.091 PPM
7) H Diesel Fuel #2 Combo ...	14.000	311865035	133.534 PPM
8) H Oil Combo (08-13-21)	22.000	256722034	116.841 PPM
9) H Oil Acid Clean Combo ...	22.000	256722034	75.703 PPM
10) H HAWAII 8015M DF2 (02-...	14.000	357107444	149.970 PPM
11) H HAWAII 8015M Oil (08-...	22.000	210381921	96.734 PPM
12) H Mineral Oil (02-08-21)	16.000	394049091	161.493 PPM
13) H Mineral Oil Combo (0...	16.000	310410610	134.165 PPM
14) H Oil MO Combo (08-13-21)	22.000	217900480	97.137 PPM
15) H Oil Acid Clean MO Com...	22.000	217900480	59.791 PPM
16) H Hydraulic Oil (02-08-21)	15.000	466376774	96.910 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	361310079	129.198 PPM
18) H Diesel Fuel #2 ACU co...	14.000	311865035	114.704 PPM
19) H JP-4 (04-08-21)	8.000	111285523	72.222 PPM
20) H JP-5 (04-08-21)	8.000	99422404	39.462 PPM
21) H JP-8 (04-08-21)	8.000	176345861	74.215 PPM

(f)=RT Delta > 1/2 Window

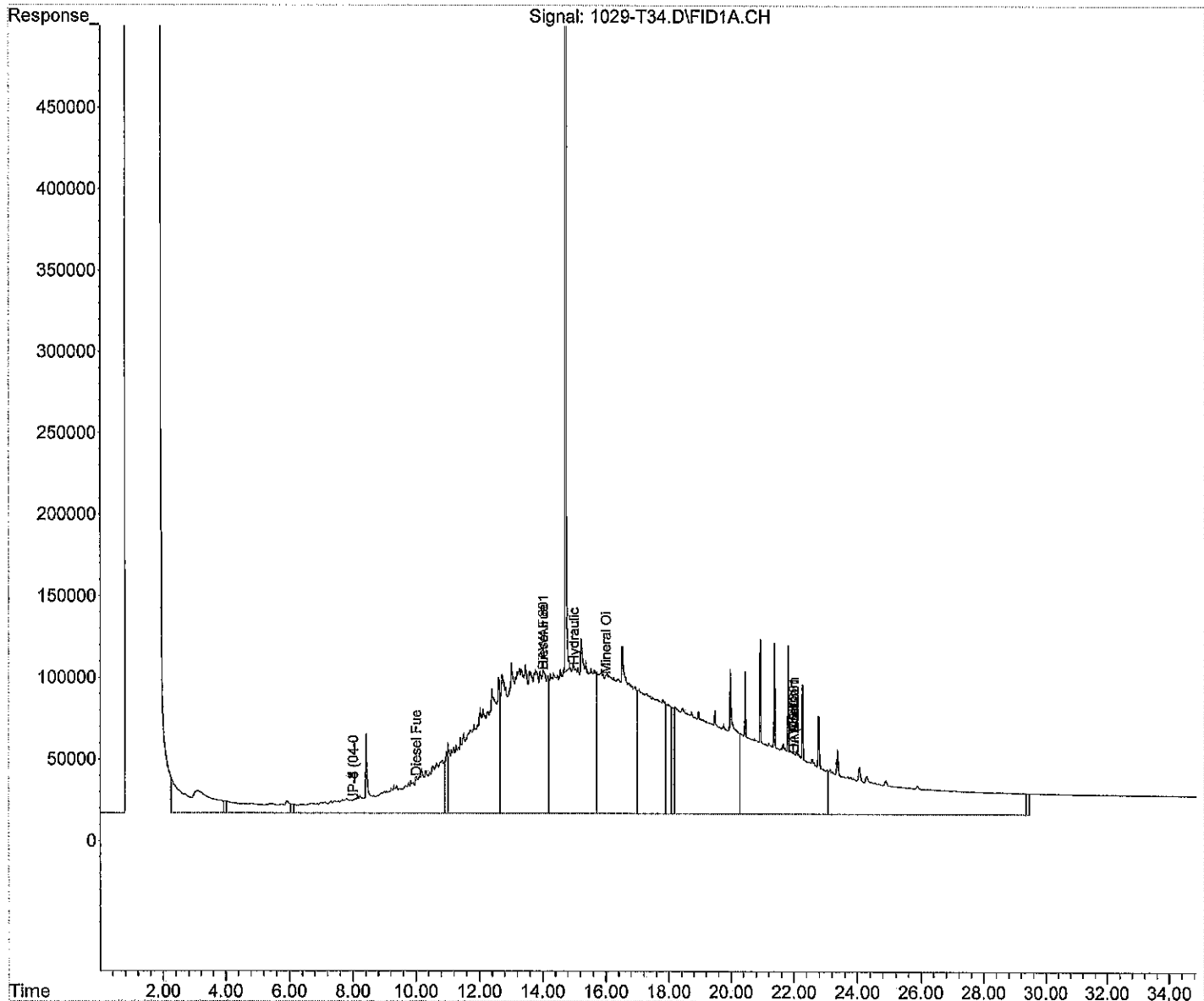
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T34.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 7:27
Operator : JP
Sample : 10-231-08
Misc : Sample
ALS Vial : 34 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 08:02:00 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T22.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 23:02
 Operator : JP
 Sample : 10-231-01 ACU
 Misc : Sample
 ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 23:37:55 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	135914991	50.847 PPM
Spiked Amount	50.000	Recovery = 101.69%	

Target Compounds

2) H Gasoline	3.500	13691236	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	26735082	9.108 PPM
4) H Diesel Fuel #2 (02-0...	14.000	28689676	10.977 PPM
5) H Oil (08-13-21)	22.000	53217288	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	53217288	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	25494110	10.000 PPM
8) H Oil Combo (08-13-21)	22.000	49087256	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	49087256	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	28233980	10.921 PPM
11) H HAWAII 8015M Oil (08-...	22.000	45699348	N.D. PPM
12) H Mineral Oil (02-08-21)	16.000	25579143	8.029 PPM
13) H Mineral Oil Combo (0...	16.000	19633613	7.825 PPM
14) H Oil MO Combo (08-13-21)	22.000	46567982	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	46567982	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	38275184	9.111 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	28689676	7.930 PPM
18) H Diesel Fuel #2 ACU co...	14.000	25494110	7.164 PPM
19) H JP-4 (04-08-21)	8.000	26507598	14.736 PPM
20) H JP-5 (04-08-21)	8.000	16396597	6.060 PPM
21) H JP-8 (04-08-21)	8.000	19338163	7.371 PPM

(f)=RT Delta > 1/2 Window

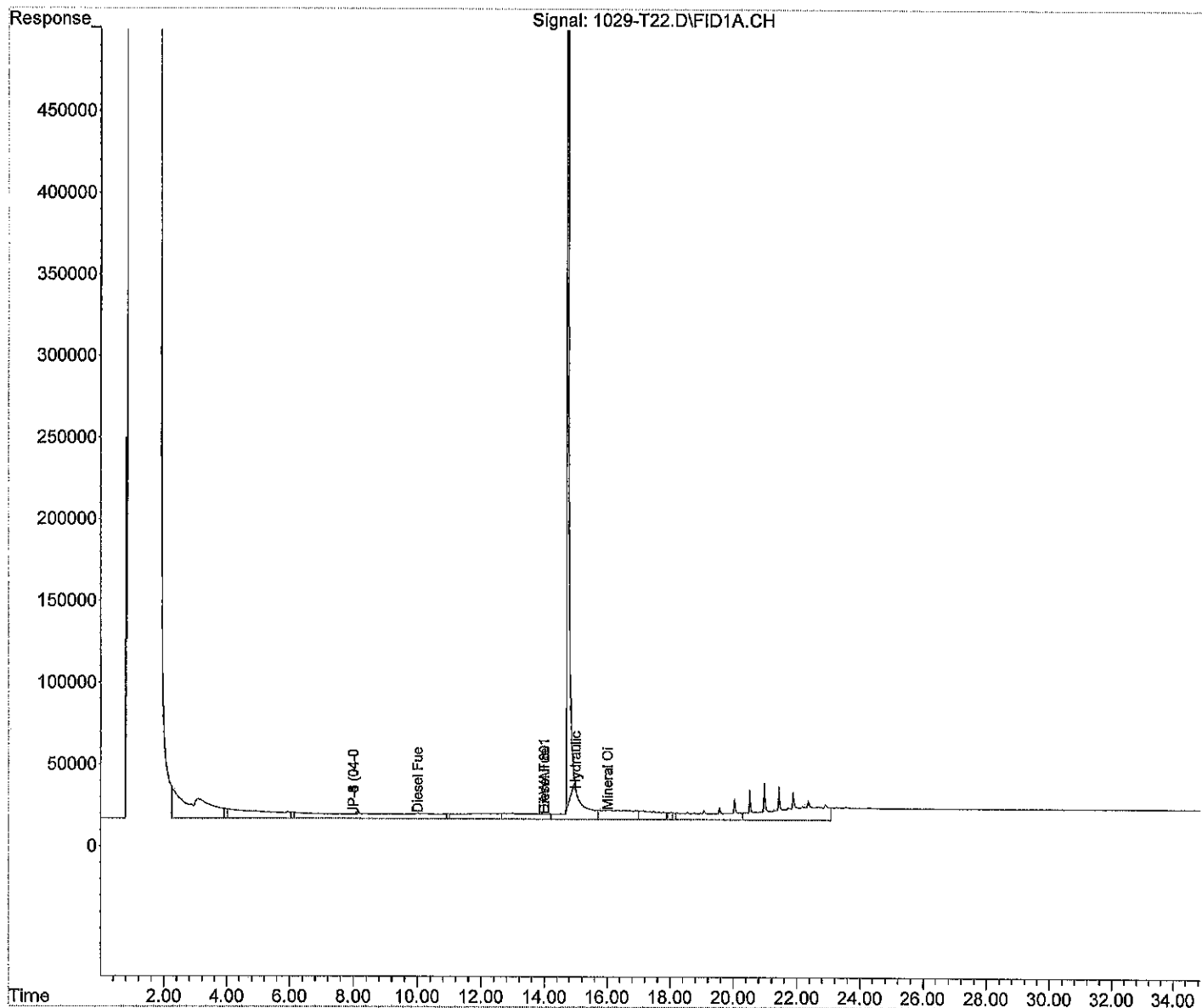
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T22.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 23:02
Operator : JP
Sample : 10-231-01 ACU
Misc : Sample
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 23:37:55 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T21.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 22:21
 Operator : JP
 Sample : 10-231-02 ACU
 Misc : Sample
 ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 22:56:08 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.728	124321496	46.527 PPM
Spiked Amount	50.000	Recovery =	93.05%

Target Compounds

2) H Gasoline	3.500	13729086	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	36742535	13.007 PPM
4) H Diesel Fuel #2 (02-0...	14.000	39055085	15.323 PPM
5) H Oil (08-13-21)	22.000	57546974	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	57546974	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	35641186	14.378 PPM
8) H Oil Combo (08-13-21)	22.000	53280271	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	53280271	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	38584624	15.298 PPM
11) H HAWAII 8015M Oil (08-...	22.000	49693325	1.436 PPM
12) H Mineral Oil (02-08-21)	16.000	31527377	10.507 PPM
13) H Mineral Oil Combo (0...	16.000	24513418	9.945 PPM
14) H Oil MO Combo (08-13--21)	22.000	50621444	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	50621444	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	46681904	10.835 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	39055085	11.709 PPM
18) H Diesel Fuel #2 ACU co...	14.000	35641186	10.975 PPM
19) H JP-4 (04-08-21)	8.000	34680429	20.278 PPM
20) H JP-5 (04-08-21)	8.000	24449466	9.300 PPM
21) H JP-8 (04-08-21)	8.000	29463502	11.682 PPM

(f)=RT Delta > 1/2 Window

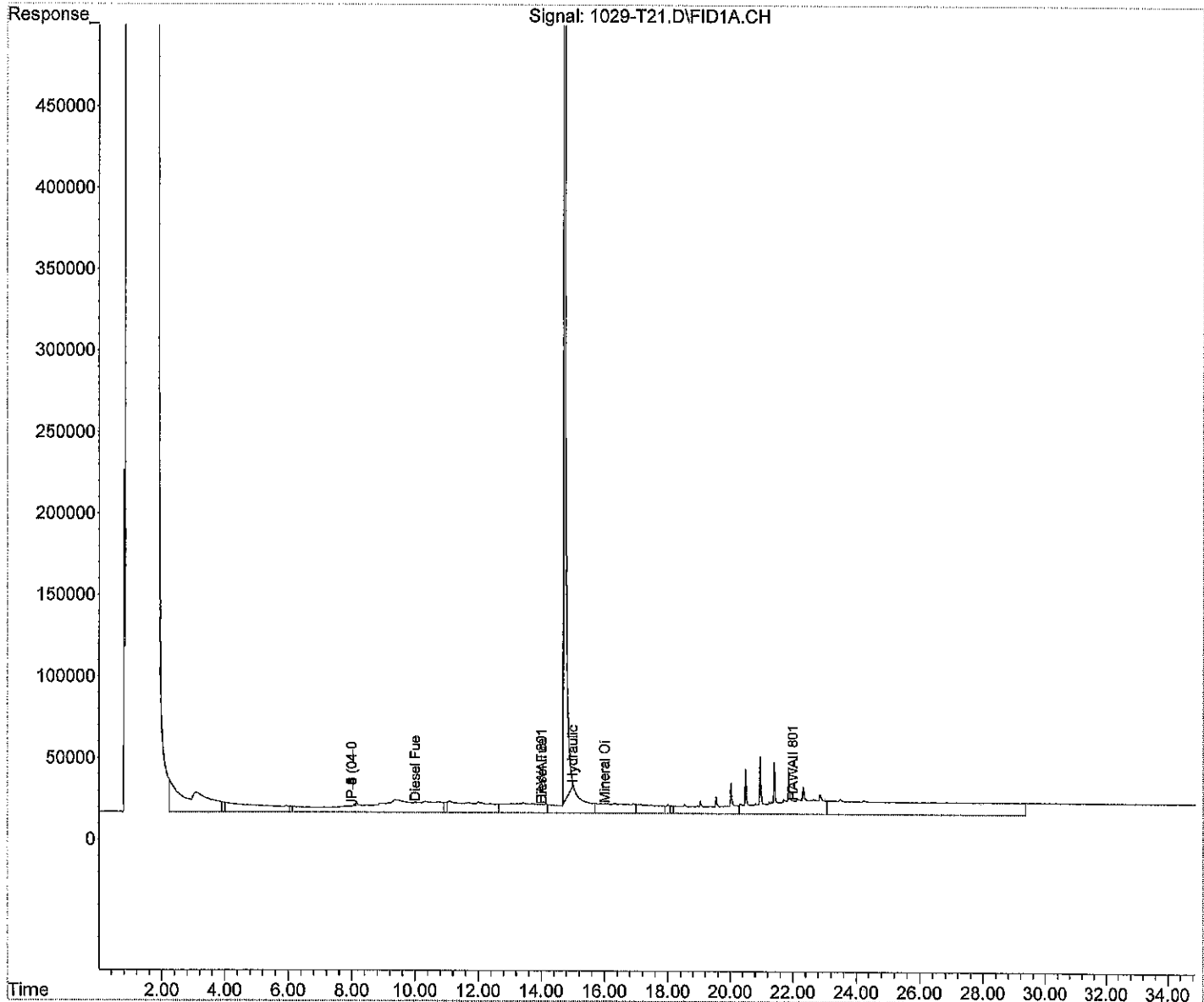
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T21.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 22:21
Operator : JP
Sample : 10-231-02 ACU
Misc : Sample
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 22:56:08 2021
Quant Method : C:\MSDCHEM1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T20.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 21:39
 Operator : JP
 Sample : 10-231-03 ACU
 Misc : Sample
 ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 22:14:03 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.727	138590357	51.844 PPM
Spiked Amount	50.000	Recovery = 103.69%	

Target Compounds

2) H Gasoline	3.500	15918176	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	40505205	14.473 PPM
4) H Diesel Fuel #2 (02-0...	14.000	42275217	16.673 PPM
5) H Oil (08-13-21)	22.000	65260872	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	65260872	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	38083233	15.431 PPM
8) H Oil Combo (08-13-21)	22.000	60774036	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	60774036	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	41654301	16.595 PPM
11) H HAWAII 8015M Oil (08-...	22.000	56456436	5.447 PPM
12) H Mineral Oil (02-08-21)	16.000	35467869	12.148 PPM
13) H Mineral Oil Combo (0...	16.000	25764327	10.488 PPM
14) H Oil MO Combo (08-13--21)	22.000	57584838	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	57584838	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	53250155	12.182 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	42275217	12.883 PPM
18) H Diesel Fuel #2 ACU co...	14.000	38083233	11.892 PPM
19) H JP-4 (04-08-21)	8.000	38940896	23.167 PPM
20) H JP-5 (04-08-21)	8.000	28517278	10.936 PPM
21) H JP-8 (04-08-21)	8.000	33362952	13.342 PPM

(f)=RT Delta > 1/2 Window

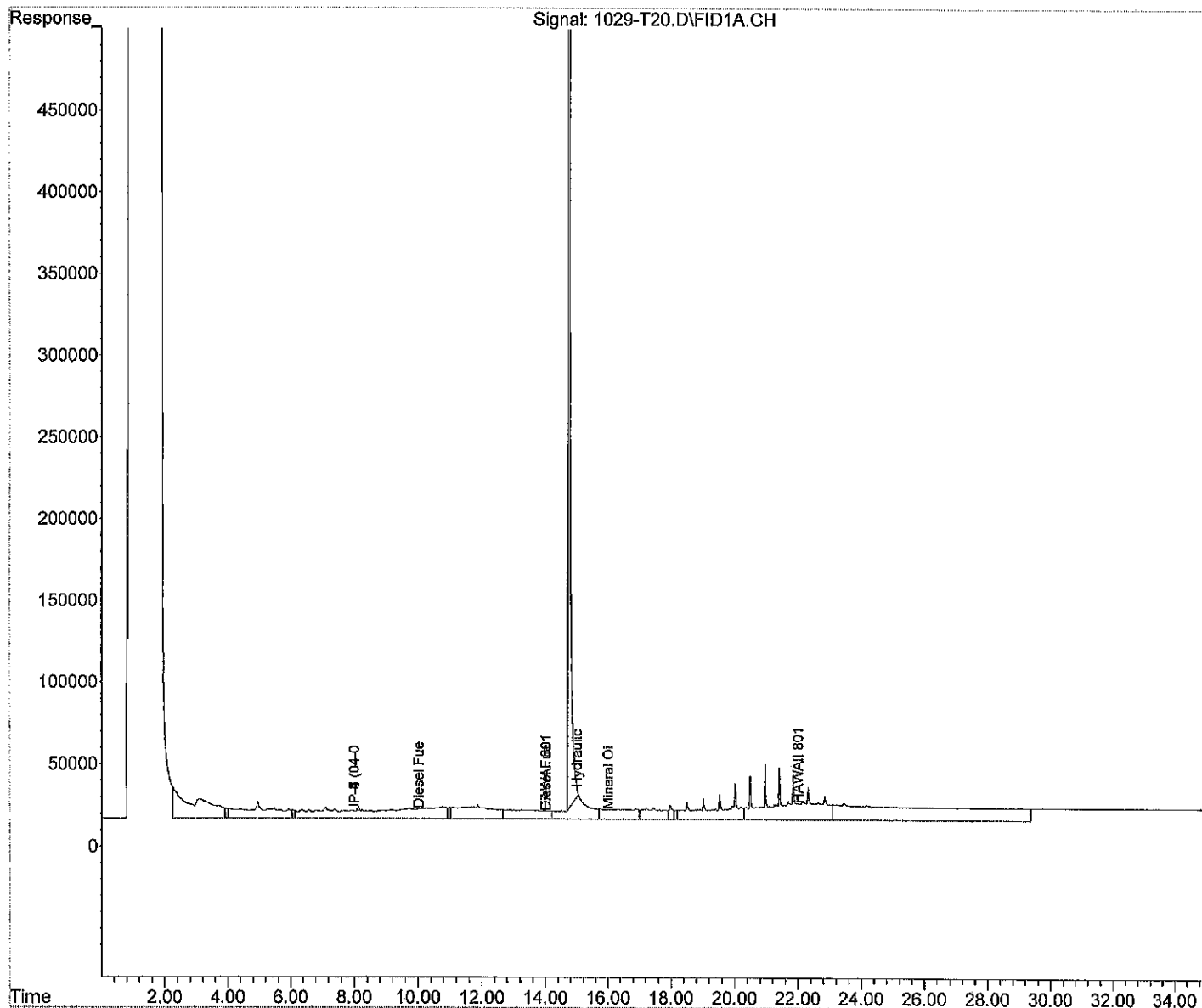
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T20.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 21:39
Operator : JP
Sample : 10-231-03 ACU
Misc : Sample
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 22:14:03 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T19.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 20:57
 Operator : JP
 Sample : 10-231-04 ACU
 Misc : Sample
 ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 21:32:15 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	129782320	48.562 PPM
Spiked Amount	50.000	Recovery = 97.12%	

Target Compounds

2) H Gasoline	3.500	26482791	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	52270730	19.056 PPM
4) H Diesel Fuel #2 (02-0...	14.000	48734701	19.381 PPM
5) H Oil (08-13-21)	22.000	52711298	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	52711298	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	45808748	18.764 PPM
8) H Oil Combo (08-13-21)	22.000	48816259	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	48816259	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	48165713	19.348 PPM
11) H HAWAII 8015M Oil (08-...	22.000	45668164	N.D. PPM
12) H Mineral Oil (02-08-21)	16.000	27407552	8.791 PPM
13) H Mineral Oil Combo (0...	16.000	21895709	8.807 PPM
14) H Oil MO Combo (08-13--21)	22.000	46497421	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	46497421	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	40344612	9.535 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	48734701	15.238 PPM
18) H Diesel Fuel #2 ACU co...	14.000	45808748	14.793 PPM
19) H JP-4 (04-08-21)	8.000	61003411	38.127 PPM
20) H JP-5 (04-08-21)	8.000	40848145	15.897 PPM
21) H JP-8 (04-08-21)	8.000	44613290	18.131 PPM

(f)=RT Delta > 1/2 Window

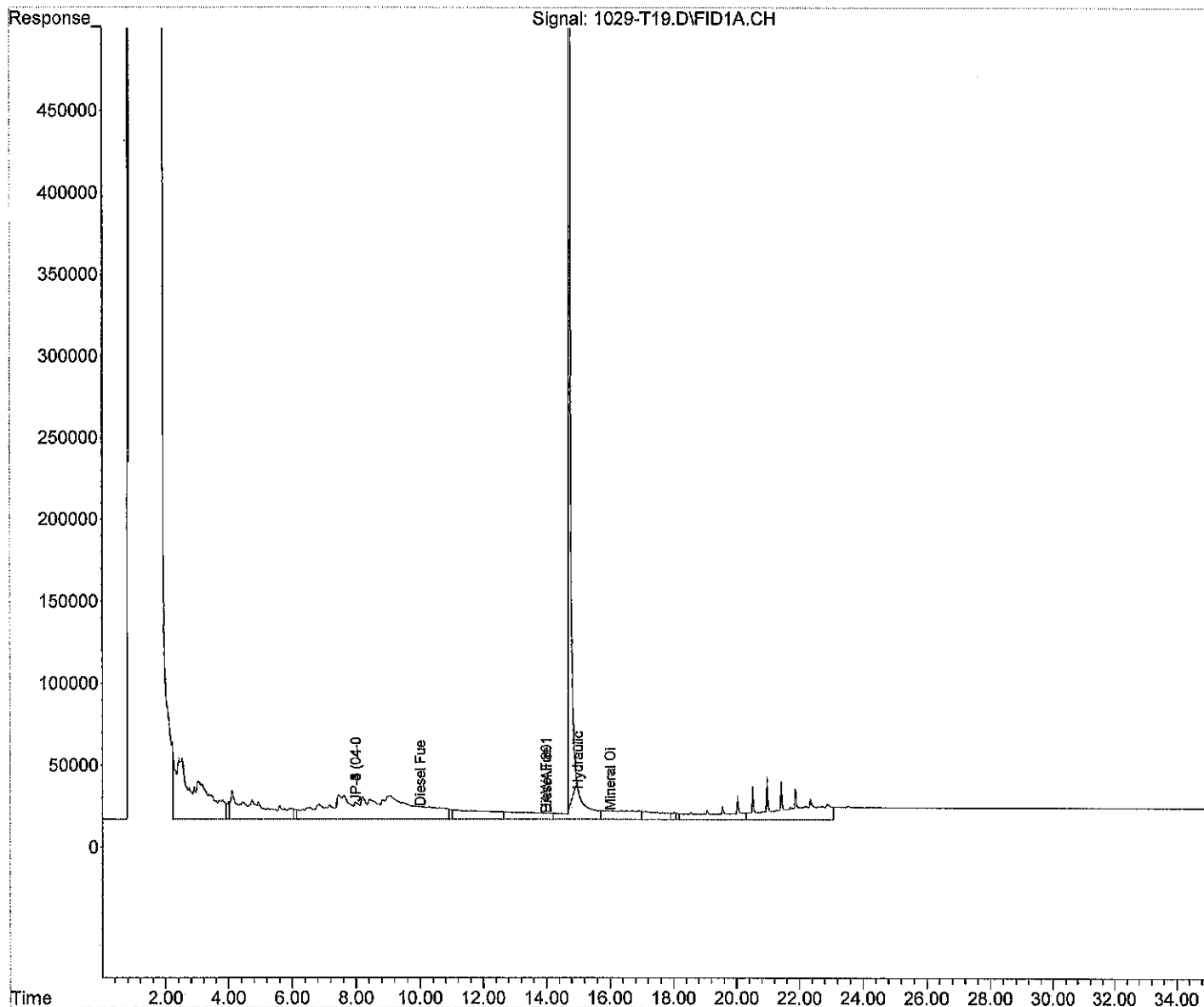
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T19.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 20:57
Operator : JP
Sample : 10-231-04 ACU
Misc : Sample
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 21:32:15 2021
Quant Method : C:\MSDCHEM1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T18.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 20:15
 Operator : JP
 Sample : 10-231-05 ACU
 Misc : Sample
 ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 20:50:14 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.728	122889323	45.993 PPM
Spiked Amount	50.000	Recovery =	91.99%

Target Compounds

2) H Gasoline	3.500	16678022	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	29846244	10.320 PPM
4) H Diesel Fuel #2 (02-0...	14.000	32798035	12.700 PPM
5) H Oil (08-13-21)	22.000	60079813	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	60079813	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	28631965	11.354 PPM
8) H Oil Combo (08-13-21)	22.000	54892734	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	54892734	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	32280217	12.632 PPM
11) H HAWAII 8015M Oil (08-...	22.000	50586053	1.965 PPM
12) H Mineral Oil (02-08-21)	16.000	28836308	9.386 PPM
13) H Mineral Oil Combo (0...	16.000	20935272	8.390 PPM
14) H Oil MO Combo (08-13--21)	22.000	51622940	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	51622940	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	43760220	10.236 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	32798035	9.428 PPM
18) H Diesel Fuel #2 ACU co...	14.000	28631965	8.343 PPM
19) H JP-4 (04-08-21)	8.000	32945713	19.102 PPM
20) H JP-5 (04-08-21)	8.000	20030395	7.522 PPM
21) H JP-8 (04-08-21)	8.000	22581727	8.752 PPM

(f)=RT Delta > 1/2 Window

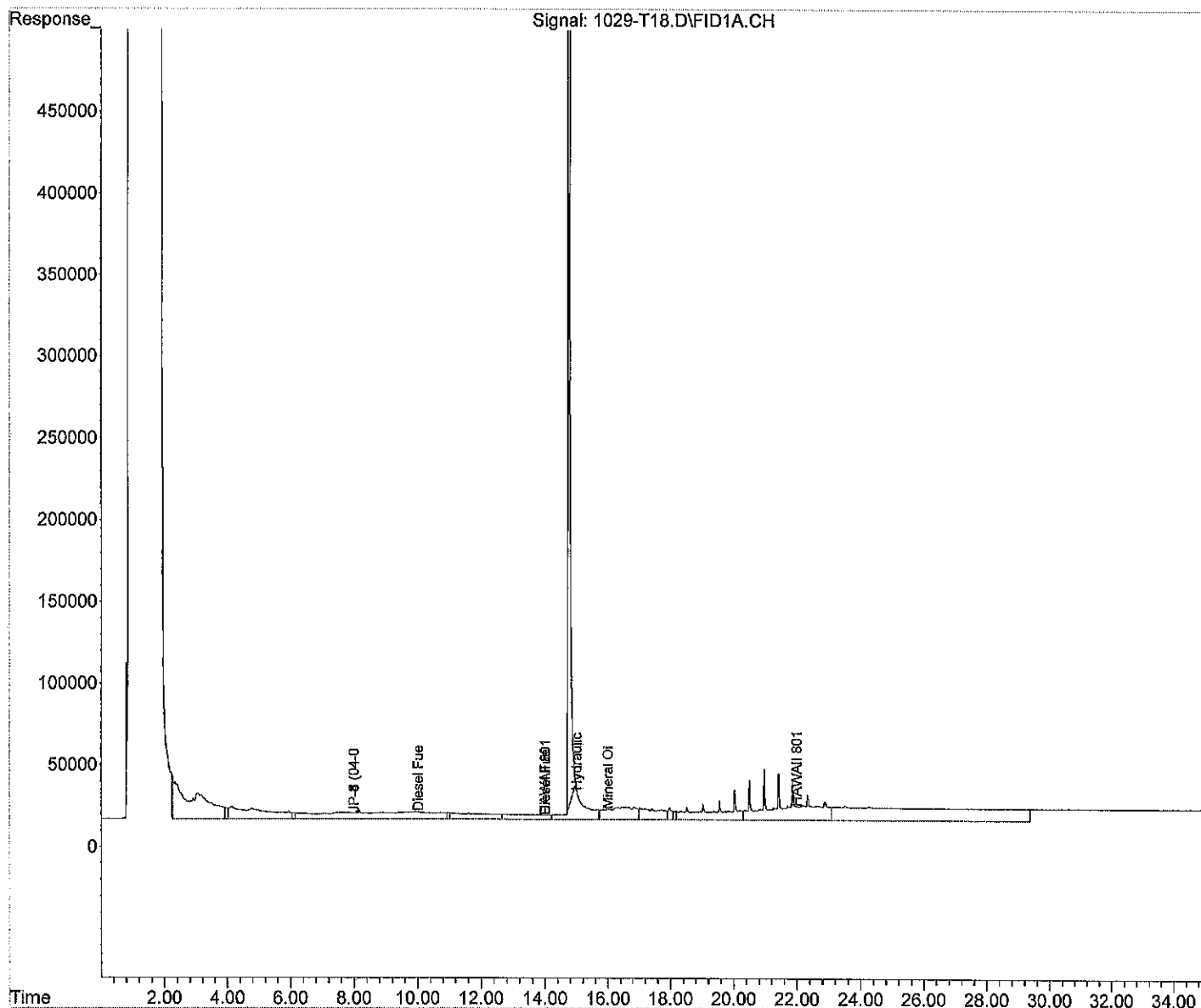
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T18.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 20:15
Operator : JP
Sample : 10-231-05 ACU
Misc : Sample
ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 20:50:14 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T17.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 19:33
 Operator : JP
 Sample : 10-231-06 ACU
 Misc : Sample
 ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 20:08:19 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	126814699	47.456 PPM
Spiked Amount	50.000	Recovery = 94.91%	

Target Compounds

2) H Gasoline	3.500	12898482	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	21602620	7.109 PPM
4) H Diesel Fuel #2 (02-0...	14.000	23777752	8.918 PPM
5) H Oil (08-13-21)	22.000	56558621	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	56558621	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	20515241	7.853 PPM
8) H Oil Combo (08-13-21)	22.000	52629577	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	52629577	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	23354728	8.858 PPM
11) H HAWAII 8015M Oil (08-...	22.000	49160022	1.120 PPM
12) H Mineral Oil (02-08-21)	16.000	23386661	7.116 PPM
13) H Mineral Oil Combo (0...	16.000	16854762	6.617 PPM
14) H Oil MO Combo (08-13-21)	22.000	50063893	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	50063893	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	37504258	8.953 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	23777752	6.139 PPM
18) H Diesel Fuel #2 ACU co...	14.000	20515241	5.295 PPM
19) H JP-4 (04-08-21)	8.000	22510742	12.026 PPM
20) H JP-5 (04-08-21)	8.000	12731979	4.586 PPM
21) H JP-8 (04-08-21)	8.000	14649689	5.375 PPM

(f)=RT Delta > 1/2 Window

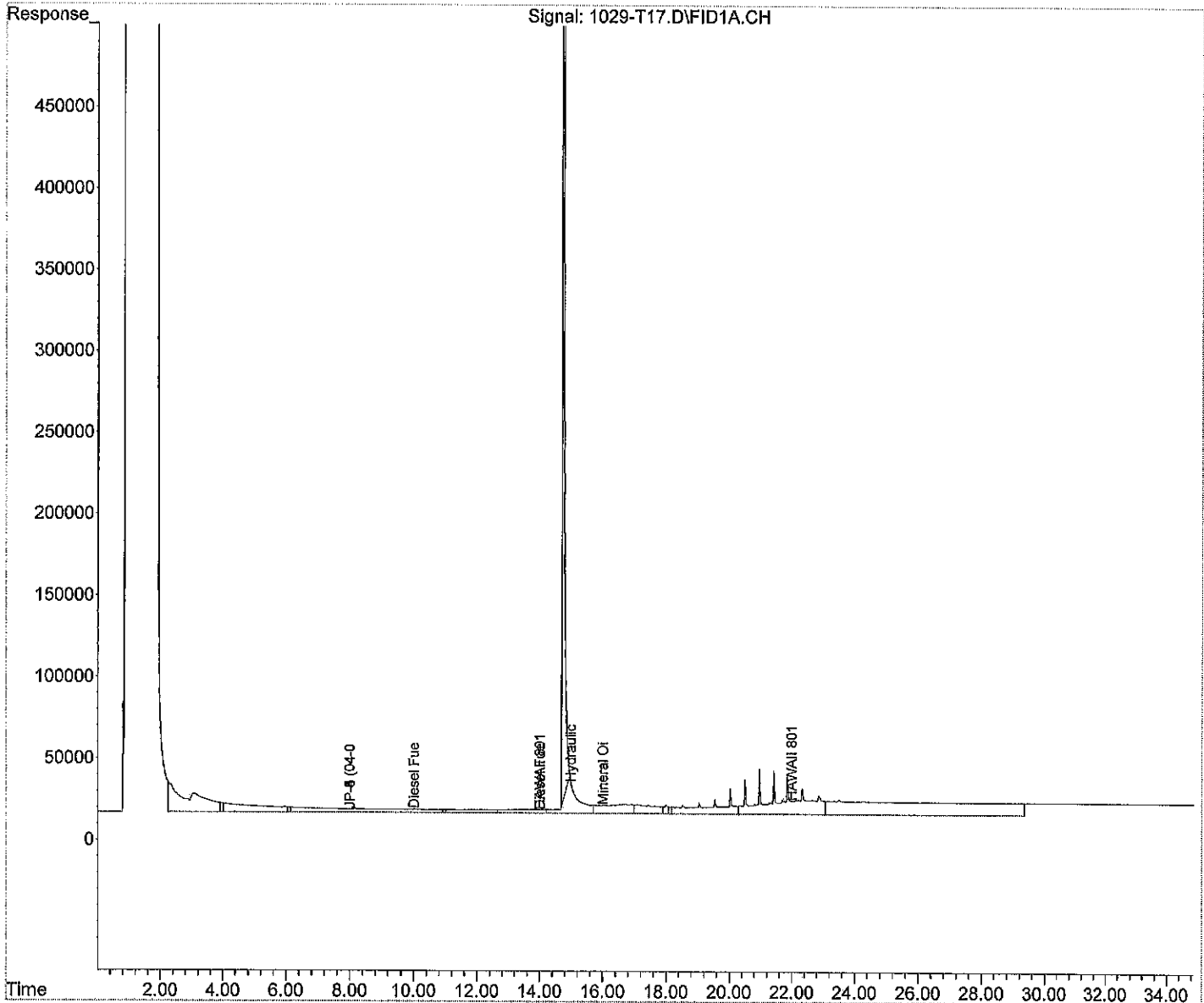
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T17.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 19:33
Operator : JP
Sample : 10-231-06 ACU
Misc : Sample
ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 20:08:19 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T16.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 18:51
 Operator : JP
 Sample : 10-231-07 ACU
 Misc : Sample
 ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 19:26:12 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	144314509	53.977 PPM
Spiked Amount	50.000	Recovery = 107.95%	

Target Compounds

2) H Gasoline	3.500	13824798	NoCal PPM
3) H Diesel Fuel #1 (02-0-...	10.000	24122815	8.090 PPM
4) H Diesel Fuel #2 (02-0-...	14.000	28687737	10.977 PPM
5) H Oil (08-13-21)	22.000	71332058	2.754 PPM
6) H Oil Acid Clean (08-...	22.000	71332058	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	24254322	9.466 PPM
8) H Oil Combo (08-13-21)	22.000	65809242	1.355 PPM
9) H Oil Acid Clean Combo ...	22.000	65809242	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	28129835	10.877 PPM
11) H HAWAII 8015M Oil (08-...	22.000	61228737	8.277 PPM
12) H Mineral Oil (02-08-21)	16.000	28554029	9.268 PPM
13) H Mineral Oil Combo (0...	16.000	19709964	7.858 PPM
14) H Oil MO Combo (08-13-21)	22.000	62319448	0.599 PPM
15) H Oil Acid Clean MO Com...	22.000	62319448	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	50620339	11.643 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	28687737	7.929 PPM
18) H Diesel Fuel #2 ACU co...	14.000	24254322	6.699 PPM
19) H JP-4 (04-08-21)	8.000	25791448	14.251 PPM
20) H JP-5 (04-08-21)	8.000	15481839	5.692 PPM
21) H JP-8 (04-08-21)	8.000	17897352	6.757 PPM

(f)=RT Delta > 1/2 Window

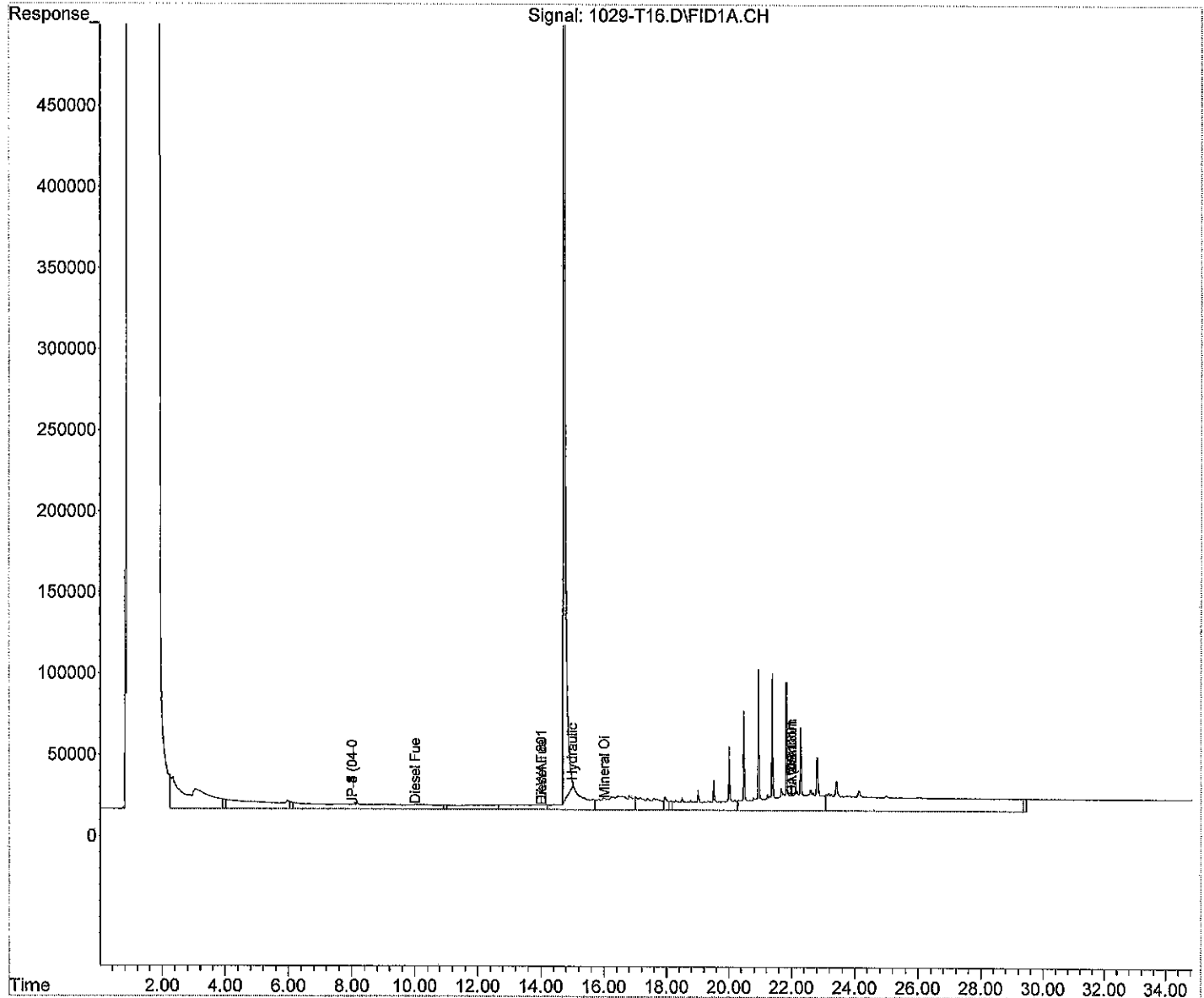
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T16.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 18:51
Operator : JP
Sample : 10-231-07 ACU
Misc : Sample
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 19:26:12 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T15.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 18:09
 Operator : JP
 Sample : 10-231-08 ACU
 Misc : Sample
 ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 18:44:14 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	14.729	133785990	50.054 PPM
Spiked Amount	50.000	Recovery = 100.11%	

Target Compounds

2) H Gasoline	3.500	13768563	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	27338557	9.343 PPM
4) H Diesel Fuel #2 (02-0...	14.000	29382297	11.268 PPM
5) H Oil (08-13-21)	22.000	61885875	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	61885875	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	26039286	10.236 PPM
8) H Oil Combo (08-13-21)	22.000	57745699	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	57745699	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	28907157	11.206 PPM
11) H HAWAII 8015M Oil (08-...	22.000	54176673	4.095 PPM
12) H Mineral Oil (02-08-21)	16.000	26131465	8.259 PPM
13) H Mineral Oil Combo (0...	16.000	19289492	7.675 PPM
14) H Oil MO Combo (08-13-21)	22.000	55112867	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	55112867	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	42934055	10.066 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	29382297	8.183 PPM
18) H Diesel Fuel #2 ACU co...	14.000	26039286	7.369 PPM
19) H JP-4 (04-08-21)	8.000	28104375	15.819 PPM
20) H JP-5 (04-08-21)	8.000	18012460	6.710 PPM
21) H JP-8 (04-08-21)	8.000	21170040	8.151 PPM

(f)=RT Delta > 1/2 Window

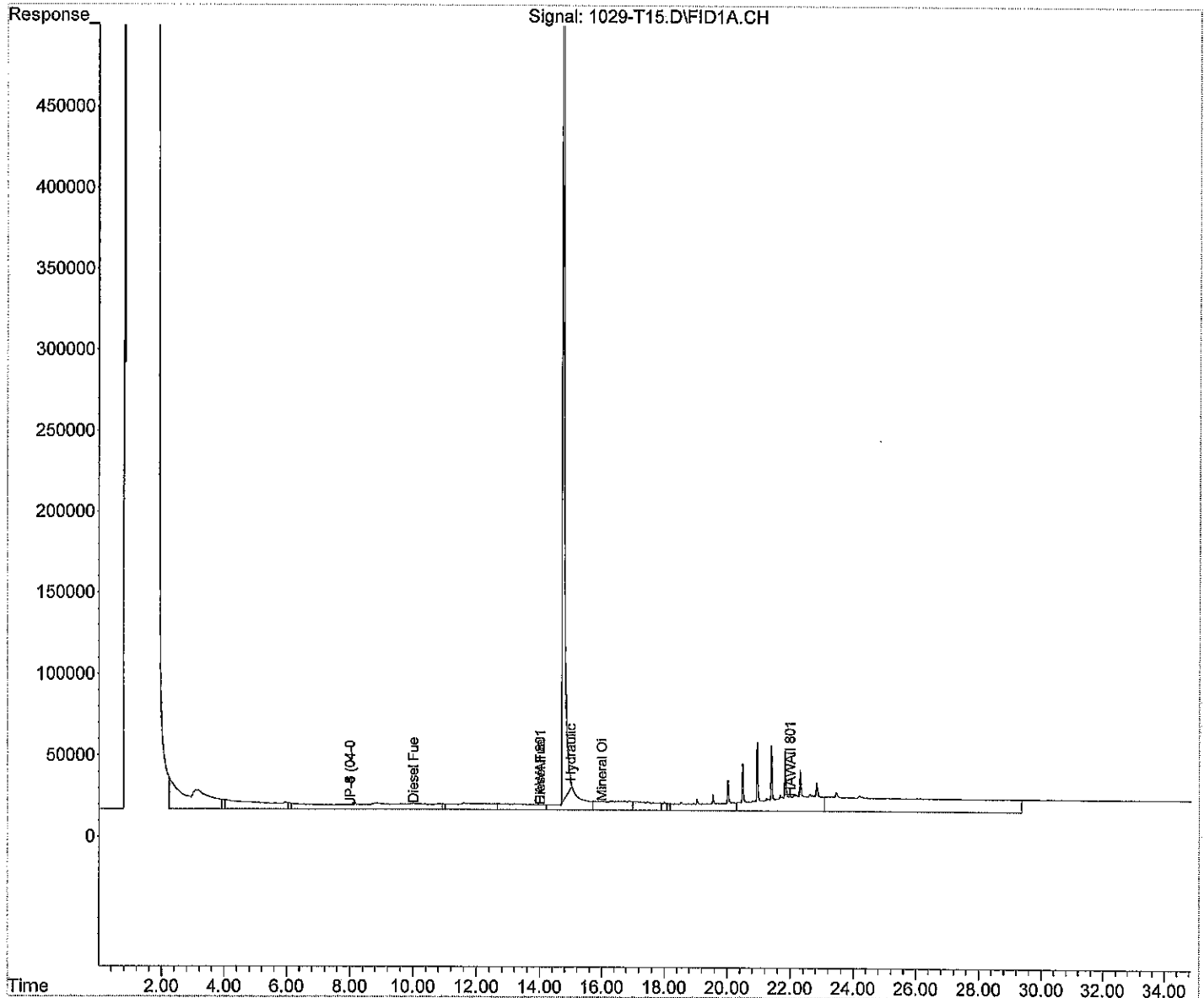
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T15.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 18:09
Operator : JP
Sample : 10-231-08 ACU
Misc : Sample
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 18:44:14 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029.SEC\
 Data File : 1029-V63.D
 Signal(s) : FID2B.ch
 Acq On : 29 Oct 2021 16:54
 Operator : JP
 Sample : MB1029W1
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 17:31:19 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 08 09:57:06 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-19-21)	14.733	161419513	64.910 PPM
Spiked Amount	50.000	Recovery = 129.82%	

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	9600453	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	13981487	N.D. PPM
5) H Diesel Fuel #2 (05-1...	14.000	13911292	2.165 PPM
6) H Oil (05-19-21)	22.000	34256172	6.477 PPM
7) H Oil Acid Clean (05-21...	22.000	34256172	7.793 PPM
8) H Diesel Fuel #2 Combo ...	14.000	12565718	1.942 PPM
9) H Oil Combo (05-19-21)	22.000	32555524	5.904 PPM
10) H Oil Acid Clean Combo ...	22.000	32555524	7.382 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	13655053	2.159 PPM
12) H HAWAII 8015M Oil (05...	22.000	31007024	5.578 PPM
13) H Mineral Oil (05-19-21)	16.000	13681136	4.422 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	13911292	2.045 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	12565718	2.012 PPM
16) H Hydraulic Oil (03-19...	14.000	18931091	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	8911781	3.821 PPM
18) H Oil Acid Clean MO Com...	22.000	30886211	7.208 PPM
19) H Oil MO Combo (05-19-21)	22.000	30886211	5.504 PPM
20) H JP-4 (03-24-21)	8.000	19869236	NoCal PPM
21) H JP-5 (03-25-21)	8.000	9962903	NoCal PPM
22) H JP-8 (03-26-21)	8.000	11324340	NoCal PPM

(f)=RT Delta > 1/2 Window

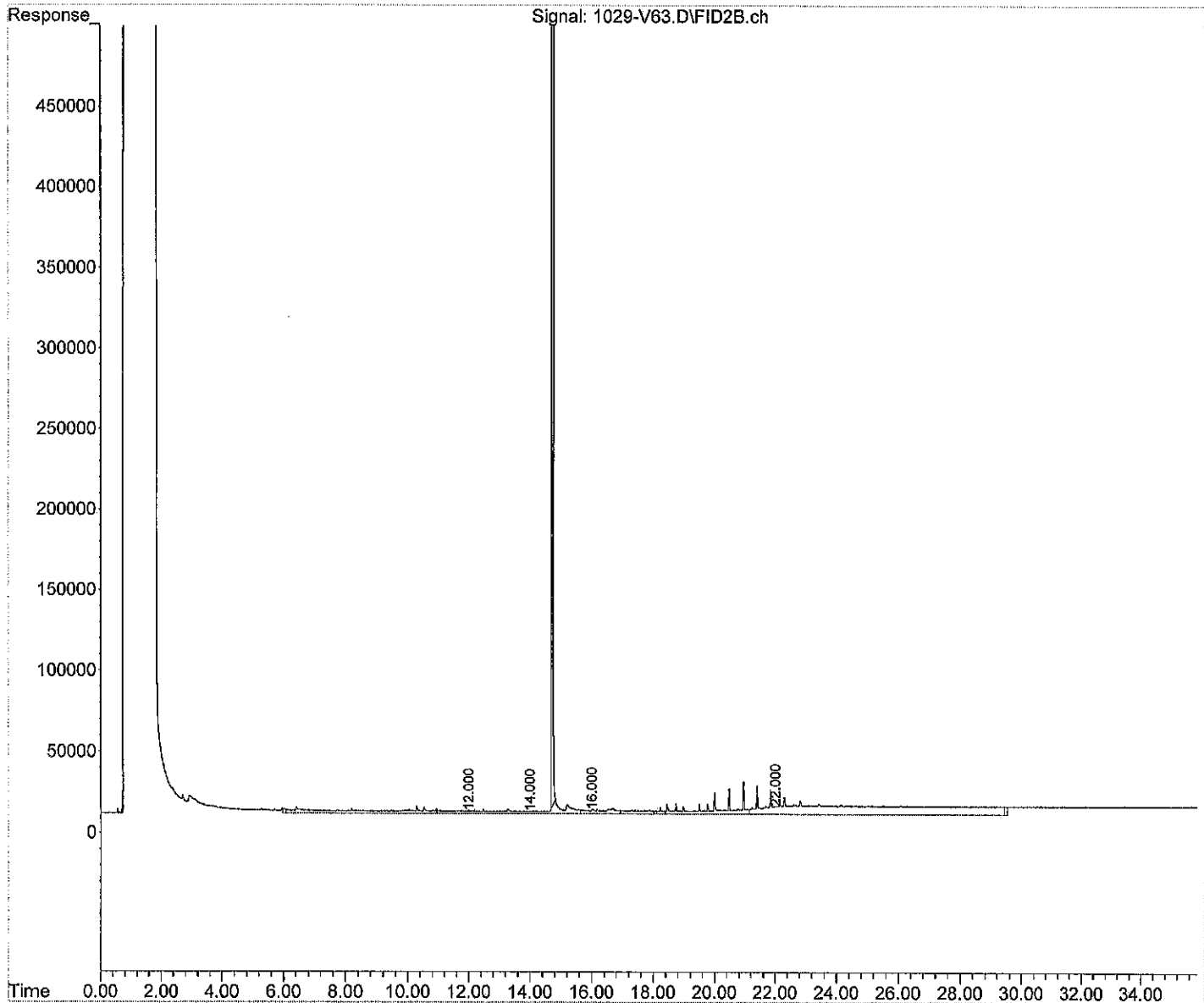
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029.SEC\
Data File : 1029-V63.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2021 16:54
Operator : JP
Sample : MB1029W1
Misc : RearSamp
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 17:31:19 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Oct 08 09:57:06 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211101.SEC\
 Data File : 1101-T56.D
 Signal(s) : FID2B.CH
 Acq On : 01 Nov 2021 11:20
 Operator : JP
 Sample : MB1029W1 ACU
 Misc : RearSamp
 ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Nov 01 12:01:24 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T211028R.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 29 08:03:54 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-04-20)	14.111f	197610058	64.901 PPM
Spiked Amount	50.000	Recovery =	129.80%

Target Compounds

2) H Gasoline	4.000	19015833	NoCal PPM
3) H Diesel Fuel #1 (05-27...	10.000	31025303	7.102 PPM
4) H Diesel Fuel #2 (01-23...	14.000	29859692	5.785 PPM
5) H Oil (10-28-21)	22.000	61881373	7.164 PPM
6) H Oil Acid Clean (05-01...	22.000	61881373	10.166 PPM
7) H Diesel Fuel #2 Combo ...	14.000	27088139	5.333 PPM
8) H Oil Combo (10-28-21)	22.000	57933594	6.257 PPM
9) H Oil Acid Clean Combo ...	22.000	57933594	9.427 PPM
10) H Oil MO Combo (10-28-21)	22.000	55534094	5.900 PPM
11) H Oil Acid Clean MO Com...	22.000	55534094	9.329 PPM
12) H HAWAII 8015M DF2 (01-...	14.000	29385593	6.574 PPM
13) H HAWAII 8015M Oil (10-...	22.000	54863450	5.472 PPM
14) H Mineral Oil (05-01-20)	16.000	27737040	6.126 PPM
15) H Mineral Oil Combo (05...	16.000	21590082	5.937 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	29859692	4.702 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	27088139	4.298 PPM

(f)=RT Delta > 1/2 Window

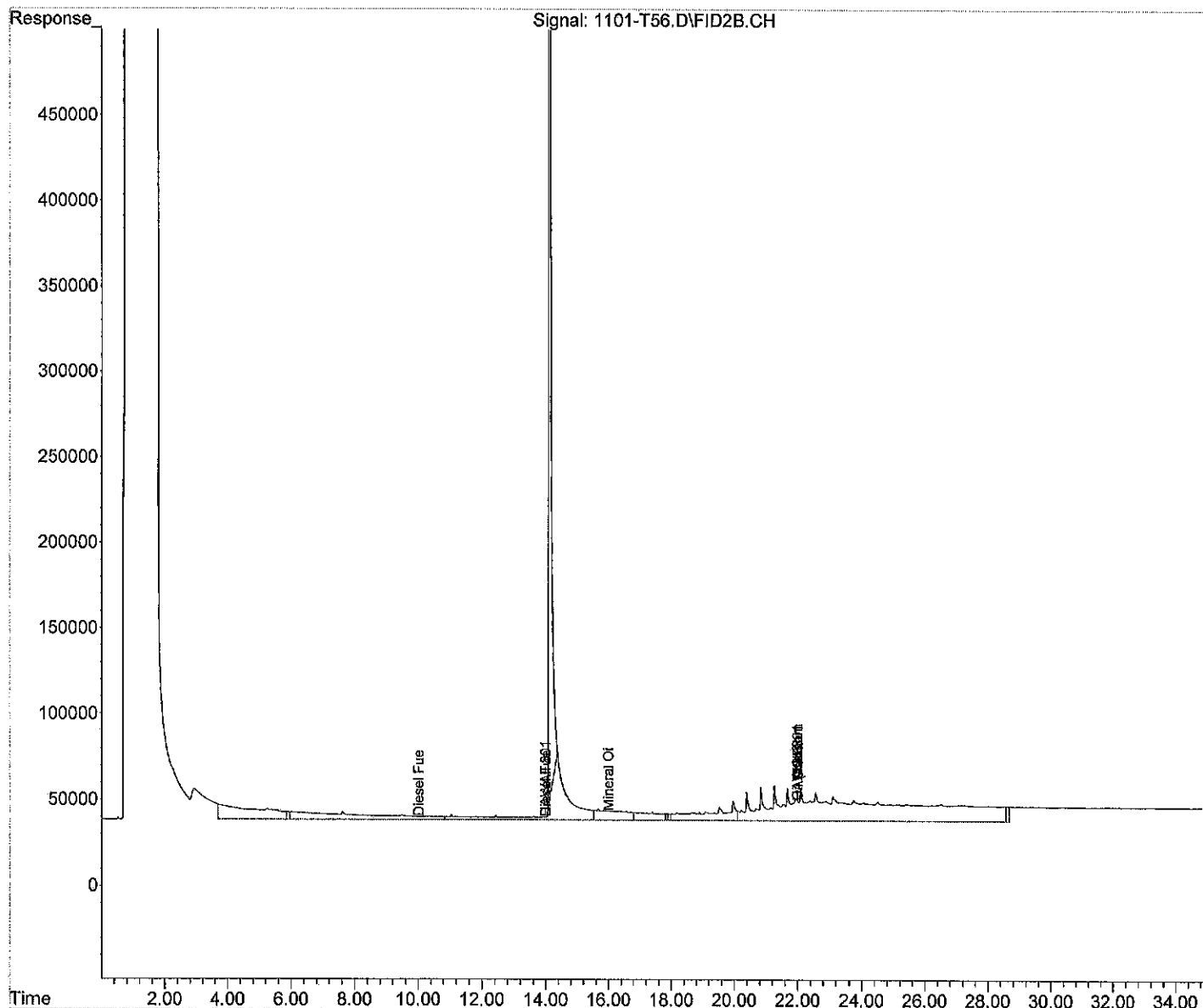
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211101.SEC\
Data File : 1101-T56.D
Signal(s) : FID2B.CH
Acq On : 01 Nov 2021 11:20
Operator : JP
Sample : MB1029W1 ACU
Misc : RearSamp
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 12:01:24 2021
Quant Method : C:\MSDCHEM\1\METHODS\T211028R.M
Quant Title : GCTPH
QLast Update : Fri Oct 29 08:03:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
 Data File : 1029-V14.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2021 17:34
 Operator : JP
 Sample : SB1029W1 RERUN
 Misc : Sample
 ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 18:10:43 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.771	148038928	50.755 PPM
Spiked Amount	50.000	Recovery = 101.51%	

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	13866733	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	208167464	41.192 PPM
5) H Diesel Fuel #2 (05-2...	14.000	217301505	80.433 PPM
6) H Oil (05-21-21)	22.000	67404569	10.580 PPM
7) H Oil Acid Clean (05-2...	22.000	67404569	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	212061574	81.373 PPM
9) H Oil Combo (05-21-21)	22.000	53992263	4.297 PPM
10) H Oil Acid Clean Combo ...	22.000	53992263	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	216351089	80.886 PPM
12) H HAWAII 8015M Oil (05...	22.000	48615049	2.328 PPM
13) H Mineral Oil (05-21-21)	16.000	156649691	54.433 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	217301505	75.755 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	212061574	76.545 PPM
16) H Hydraulic Oil	16.000	182215222	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	150741877	55.826 PPM
18) H Oil Acid Clean MO Com...	22.000	49220812	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	49220812	2.363 PPM

(f)=RT Delta > 1/2 Window

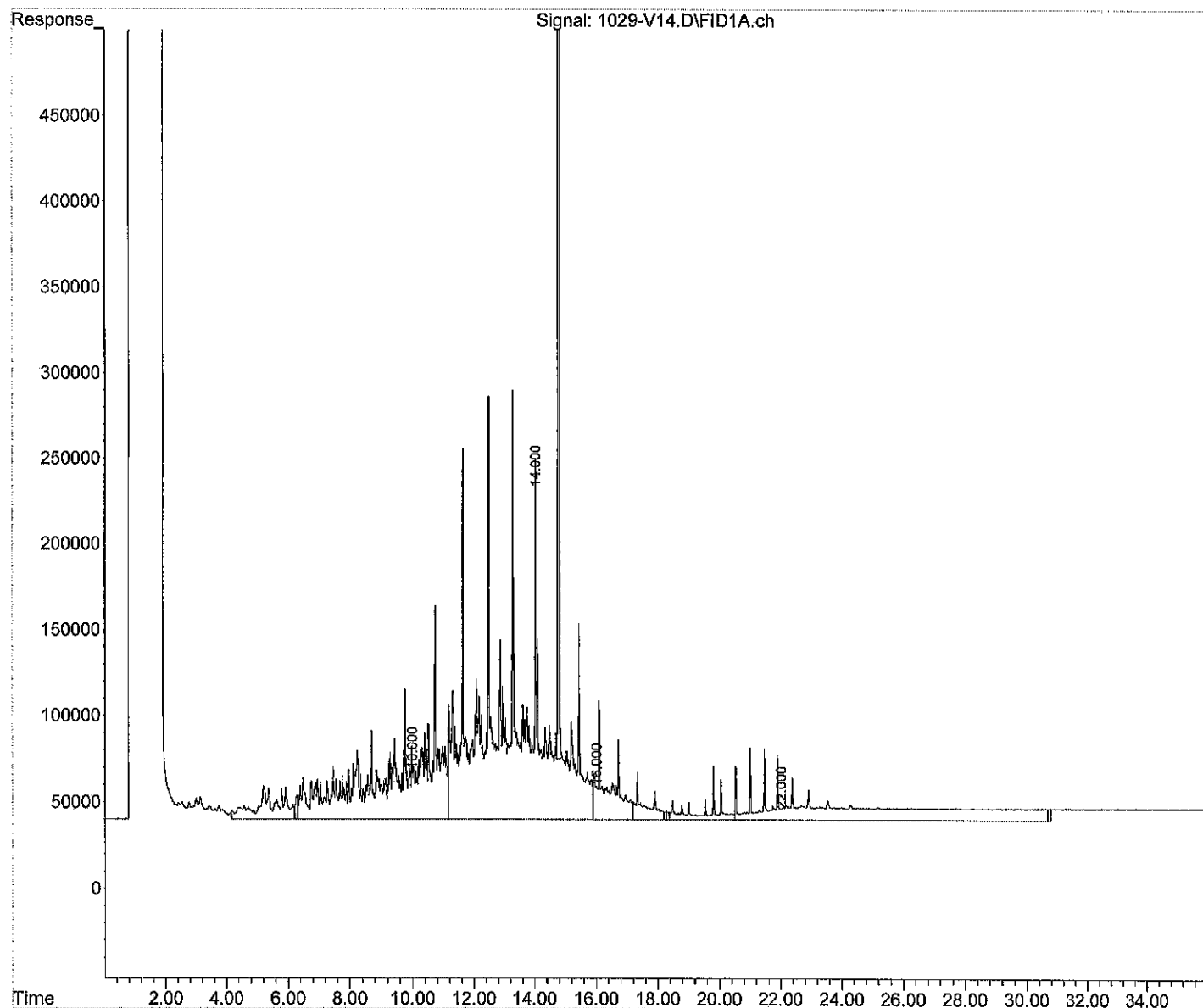
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
Data File : 1029-V14.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2021 17:34
Operator : JP
Sample : SB1029W1 RERUN
Misc : Sample
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 18:10:43 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
 Data File : 1029-V13.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2021 16:54
 Operator : JP
 Sample : SB1029W1 DUP
 Misc : Sample
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 17:30:44 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.770	134911033	46.267 PPM
Spiked Amount	50.000	Recovery =	92.53%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	13923097	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	195907730	38.653 PPM
5) H Diesel Fuel #2 (05-2...	14.000	202774895	74.699 PPM
6) H Oil (05-21-21)	22.000	66040138	9.819 PPM
7) H Oil Acid Clean (05-2...	22.000	66040138	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	198203600	75.747 PPM
9) H Oil Combo (05-21-21)	22.000	54158232	4.391 PPM
10) H Oil Acid Clean Combo ...	22.000	54158232	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	201846660	75.110 PPM
12) H HAWAII 8015M Oil (05...	22.000	49411795	2.793 PPM
13) H Mineral Oil (05-21-21)	16.000	142761640	49.369 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	202774895	70.287 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	198203600	71.177 PPM
16) H Hydraulic Oil	16.000	167537718	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	137480367	50.804 PPM
18) H Oil Acid Clean MO Com...	22.000	50000221	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	50000221	2.815 PPM

(f)=RT Delta > 1/2 Window

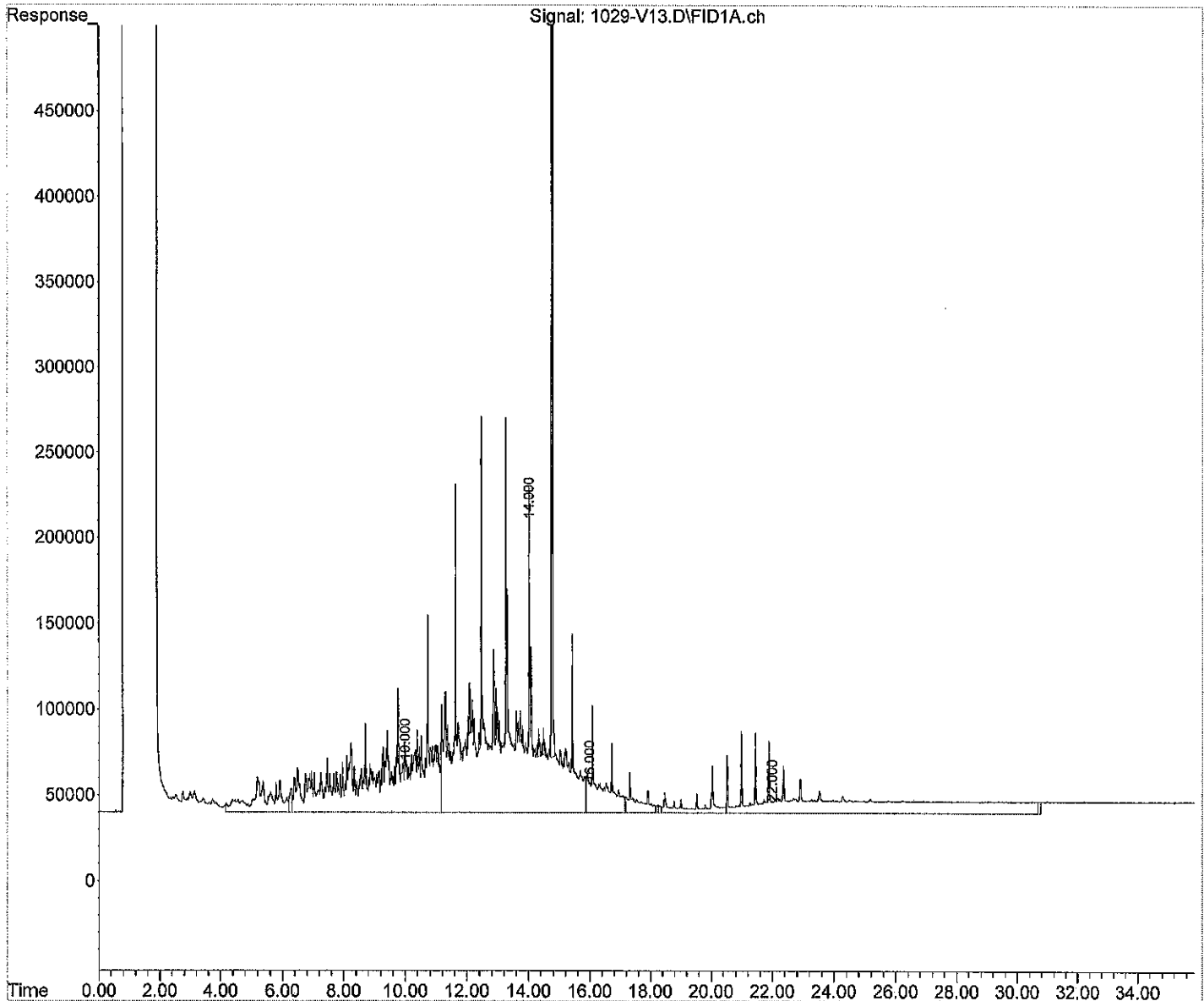
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
Data File : 1029-V13.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2021 16:54
Operator : JP
Sample : SB1029W1 DUP
Misc : Sample
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 17:30:44 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
 Data File : 1101-V11.D
 Signal(s) : FID1A.ch
 Acq On : 1 Nov 2021 14:51
 Operator : JP
 Sample : SB1029W1 ACU
 Misc : Sample
 ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Nov 01 15:27:07 2021
 Quant Method : C:\MSDCHEM\2\METHODS\W210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.773	165201870	56.624 PPM
Spiked Amount	50.000	Recovery = 113.25%	

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	14236634	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	230489477	45.815 PPM
5) H Diesel Fuel #2 (05-2...	14.000	242229607	90.273 PPM
6) H Oil (05-21-21)	22.000	82221232	18.844 PPM
7) H Oil Acid Clean (05-2...	22.000	82221232	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	236154008	91.153 PPM
9) H Oil Combo (05-21-21)	22.000	66769657	11.516 PPM
10) H Oil Acid Clean Combo ...	22.000	66769657	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	241221366	90.790 PPM
12) H HAWAII 8015M Oil (05...	22.000	60533187	9.292 PPM
13) H Mineral Oil (05-21-21)	16.000	177624223	62.081 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	242229607	85.139 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	236154008	85.877 PPM
16) H Hydraulic Oil	16.000	207427388	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	171140644	63.551 PPM
18) H Oil Acid Clean MO Com...	22.000	61223693	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	61223693	9.329 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\

Data File : 1101-V11.D

Signal(s) : FID1A.ch

Acq On : 1 Nov 2021 14:51

Operator : JP

Sample : SB1029W1 ACU

Misc : Sample

ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e

Quant Time: Nov 01 15:27:07 2021

Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M

Quant Title : GCTPH

QLast Update : Wed Sep 22 08:37:48 2021

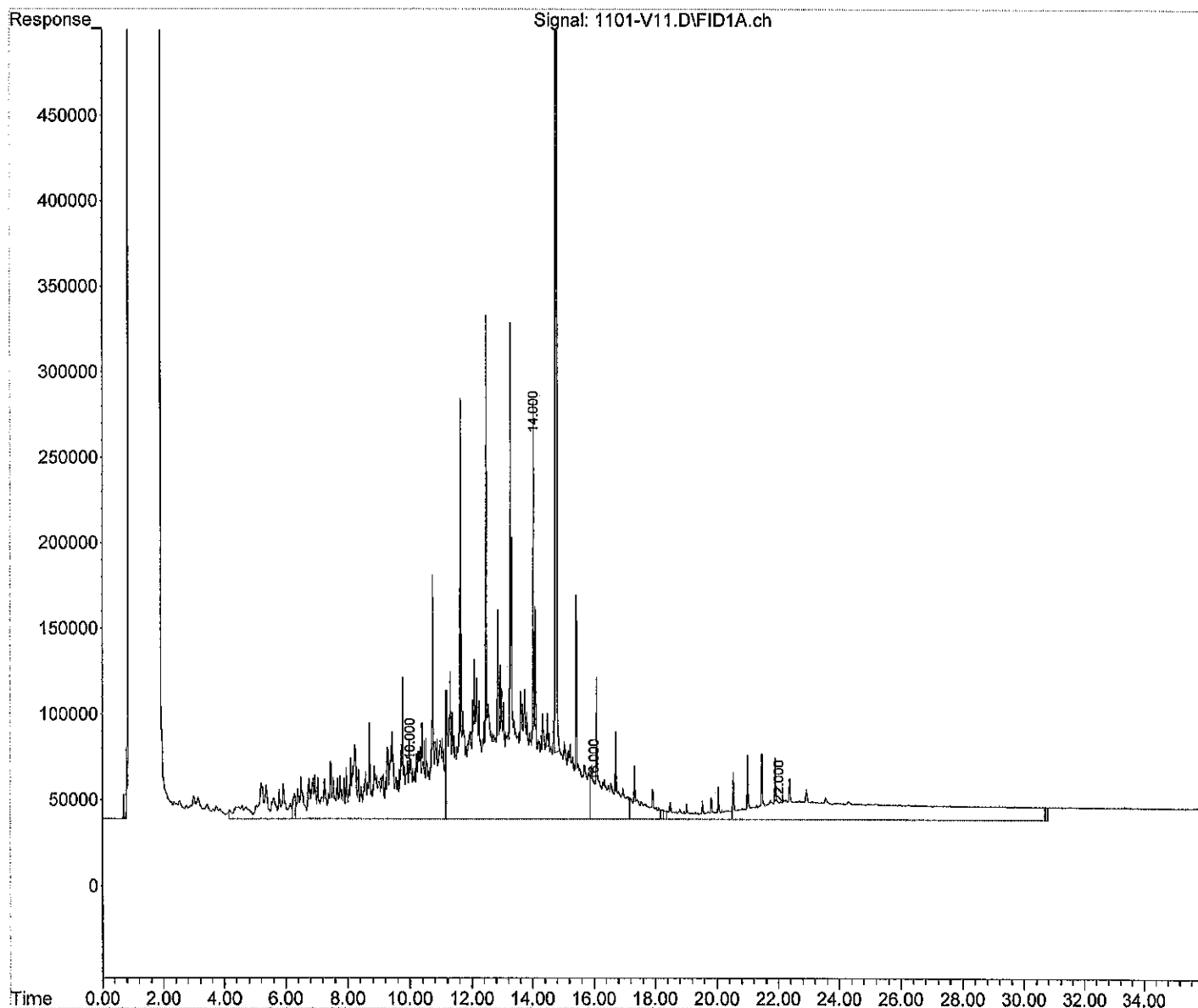
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal Phase :

Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
 Data File : 1101-V12.D
 Signal(s) : FID1A.ch
 Acq On : 1 Nov 2021 15:31
 Operator : JP
 Sample : SB1029W1 DUP ACU
 Misc : Sample
 ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Nov 01 16:07:17 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.771	145997917	50.058 PPM
Spiked Amount	50.000	Recovery = 100.12%	

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	14613265	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	215705886	42.754 PPM
5) H Diesel Fuel #2 (05-2...	14.000	225993654	83.864 PPM
6) H Oil (05-21-21)	22.000	69665993	11.841 PPM
7) H Oil Acid Clean (05-2...	22.000	69665993	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	220115059	84.642 PPM
9) H Oil Combo (05-21-21)	22.000	55120389	4.934 PPM
10) H Oil Acid Clean Combo ...	22.000	55120389	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	224972028	84.319 PPM
12) H HAWAII 8015M Oil (05...	22.000	49122312	2.624 PPM
13) H Mineral Oil (05-21-21)	16.000	161774878	56.301 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	225993654	79.027 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	220115059	79.664 PPM
16) H Hydraulic Oil	16.000	187952017	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	155716115	57.709 PPM
18) H Oil Acid Clean MO Com...	22.000	49750321	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	49750321	2.670 PPM

(f)=RT Delta > 1/2 Window

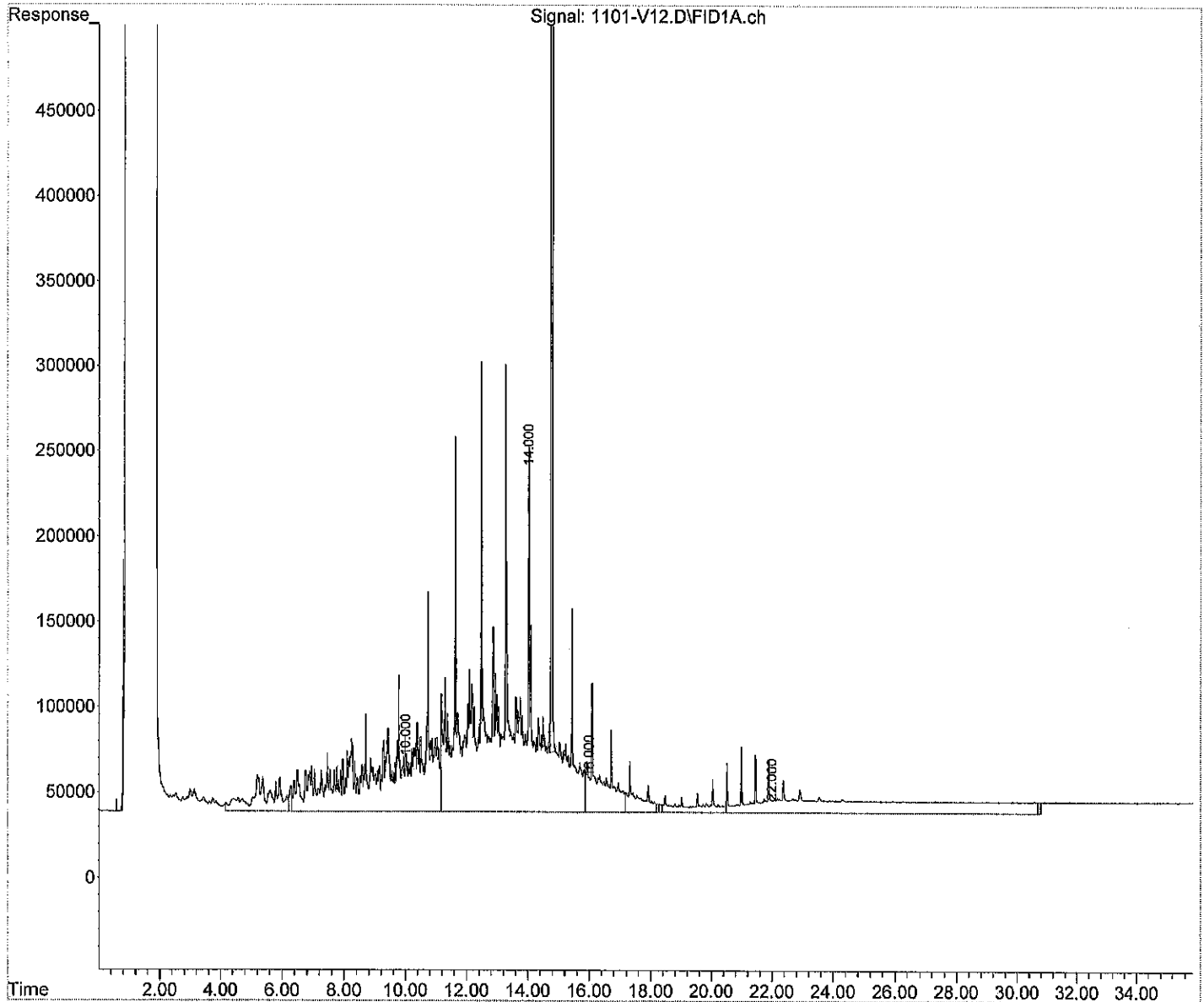
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
Data File : 1101-V12.D
Signal(s) : FID1A.ch
Acq On : 1 Nov 2021 15:31
Operator : JP
Sample : SB1029W1 DUP ACU
Misc : Sample
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 16:07:17 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T14.D
 Signal(s) : FID1A.CH
 Acq On : 29 Oct 2021 17:27
 Operator : JP
 Sample : CCV1029F-T2
 Misc : Sample
 ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 18:02:02 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%

Target Compounds

2) H Gasoline	3.500	32628655	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	227533951	87.335 PPM
4) H Diesel Fuel #2 (02-0...	14.000	231028122	95.803 PPM
5) H Oil (08-13-21)	22.000	76350413	5.740 PPM
6) H Oil Acid Clean (08-...	22.000	76350413	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	224848348	95.997 PPM
8) H Oil Combo (08-13-21)	22.000	62969854	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	62969854	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	229855132	96.168 PPM
11) H HAWAII 8015M Oil (08-...	22.000	56668623	5.573 PPM
12) H Mineral Oil (02-08-21)	16.000	156000984	62.349 PPM
13) H Mineral Oil Combo (0...	16.000	148590484	63.855 PPM
14) H Oil MO Combo (08-13--21)	22.000	57935684	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	57935684	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	172949636	36.731 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	231028122	81.699 PPM
18) H Diesel Fuel #2 ACU co...	14.000	224848348	82.027 PPM
19) H JP-4 (04-08-21)	8.000	161421938	106.218 PPM
20) H JP-5 (04-08-21)	8.000	146161136	58.265 PPM
21) H JP-8 (04-08-21)	8.000	195780096	82.488 PPM

(f)=RT Delta > 1/2 Window

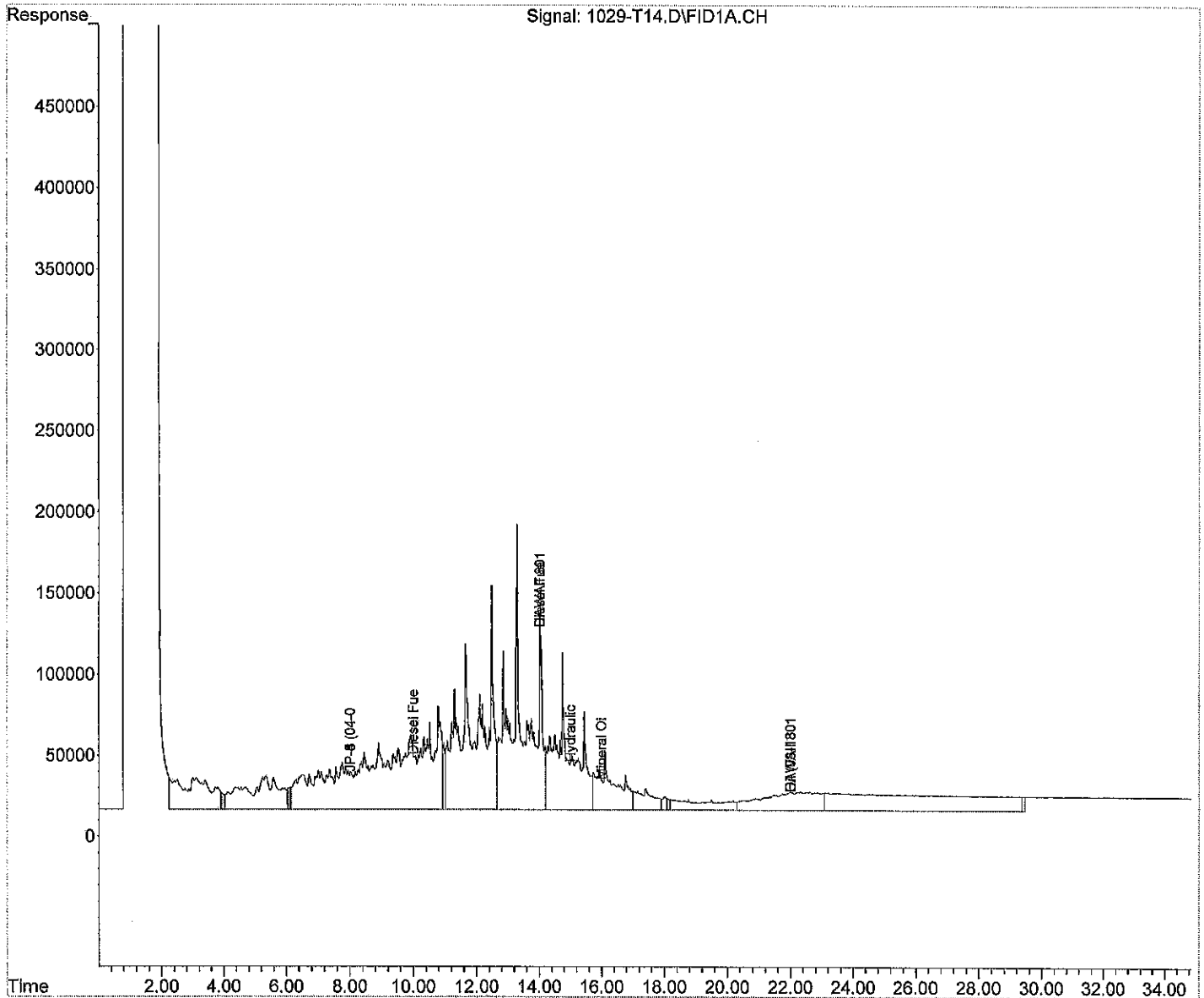
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T14.D
Signal(s) : FID1A.CH
Acq On : 29 Oct 2021 17:27
Operator : JP
Sample : CCV1029F-T2
Misc : Sample
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 18:02:02 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T26.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 1:50
 Operator : JP
 Sample : CCV1029F-T3
 Misc : Sample
 ALS Vial : 26 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 02:25:49 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%

Target Compounds

2) H Gasoline	3.500	33495193	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	229087576	87.940 PPM
4) H Diesel Fuel #2 (02-0...	14.000	231837363	96.142 PPM
5) H Oil (08-13-21)	22.000	65041783	N.D. PPM
6) H Oil Acid Clean (08-...	22.000	65041783	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	225932750	96.465 PPM
8) H Oil Combo (08-13-21)	22.000	51795869	N.D. PPM
9) H Oil Acid Clean Combo ...	22.000	51795869	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	230682515	96.517 PPM
11) H HAWAII 8015M Oil (08-...	22.000	45783593	N.D. PPM
12) H Mineral Oil (02-08-21)	16.000	154910645	61.894 PPM
13) H Mineral Oil Combo (0...	16.000	148863330	63.974 PPM
14) H Oil MO Combo (08-13--21)	22.000	46944108	N.D. PPM
15) H Oil Acid Clean MO Com...	22.000	46944108	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	167665356	35.648 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	231837363	81.994 PPM
18) H Diesel Fuel #2 ACU co...	14.000	225932750	82.434 PPM
19) H JP-4 (04-08-21)	8.000	163261571	107.465 PPM
20) H JP-5 (04-08-21)	8.000	147361841	58.748 PPM
21) H JP-8 (04-08-21)	8.000	197247589	83.113 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
 Data File : 1029-T35.D
 Signal(s) : FID1A.CH
 Acq On : 30 Oct 2021 8:09
 Operator : JP
 Sample : CCV1029F-T4
 Misc : Sample
 ALS Vial : 35 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 30 08:44:08 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 15 12:18:31 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (02-05-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%

Target Compounds

2) H Gasoline	3.500	33584993	NoCal PPM
3) H Diesel Fuel #1 (02-0...	10.000	230522752	88.499 PPM
4) H Diesel Fuel #2 (02-0...	14.000	234295574	97.173 PPM
5) H Oil (08-13-21)	22.000	82930653	9.656 PPM
6) H Oil Acid Clean (08-...	22.000	82930653	N.D. PPM
7) H Diesel Fuel #2 Combo ...	14.000	227836815	97.286 PPM
8) H Oil Combo (08-13-21)	22.000	69133412	3.366 PPM
9) H Oil Acid Clean Combo ...	22.000	69133412	N.D. PPM
10) H HAWAII 8015M DF2 (02-...	14.000	233114493	97.546 PPM
11) H HAWAII 8015M Oil (08-...	22.000	62430899	8.990 PPM
12) H Mineral Oil (02-08-21)	16.000	158554466	63.412 PPM
13) H Mineral Oil Combo (0...	16.000	150888374	64.854 PPM
14) H Oil MO Combo (08-13-21)	22.000	63852450	1.550 PPM
15) H Oil Acid Clean MO Com...	22.000	63852450	N.D. PPM
16) H Hydraulic Oil (02-08-21)	15.000	175788911	37.314 PPM
17) H Diesel Fuel #2 ACU (0...	14.000	234295574	82.891 PPM
18) H Diesel Fuel #2 ACU co...	14.000	227836815	83.149 PPM
19) H JP-4 (04-08-21)	8.000	163858128	107.870 PPM
20) H JP-5 (04-08-21)	8.000	148071522	59.034 PPM
21) H JP-8 (04-08-21)	8.000	198208107	83.522 PPM

(f)=RT Delta > 1/2 Window

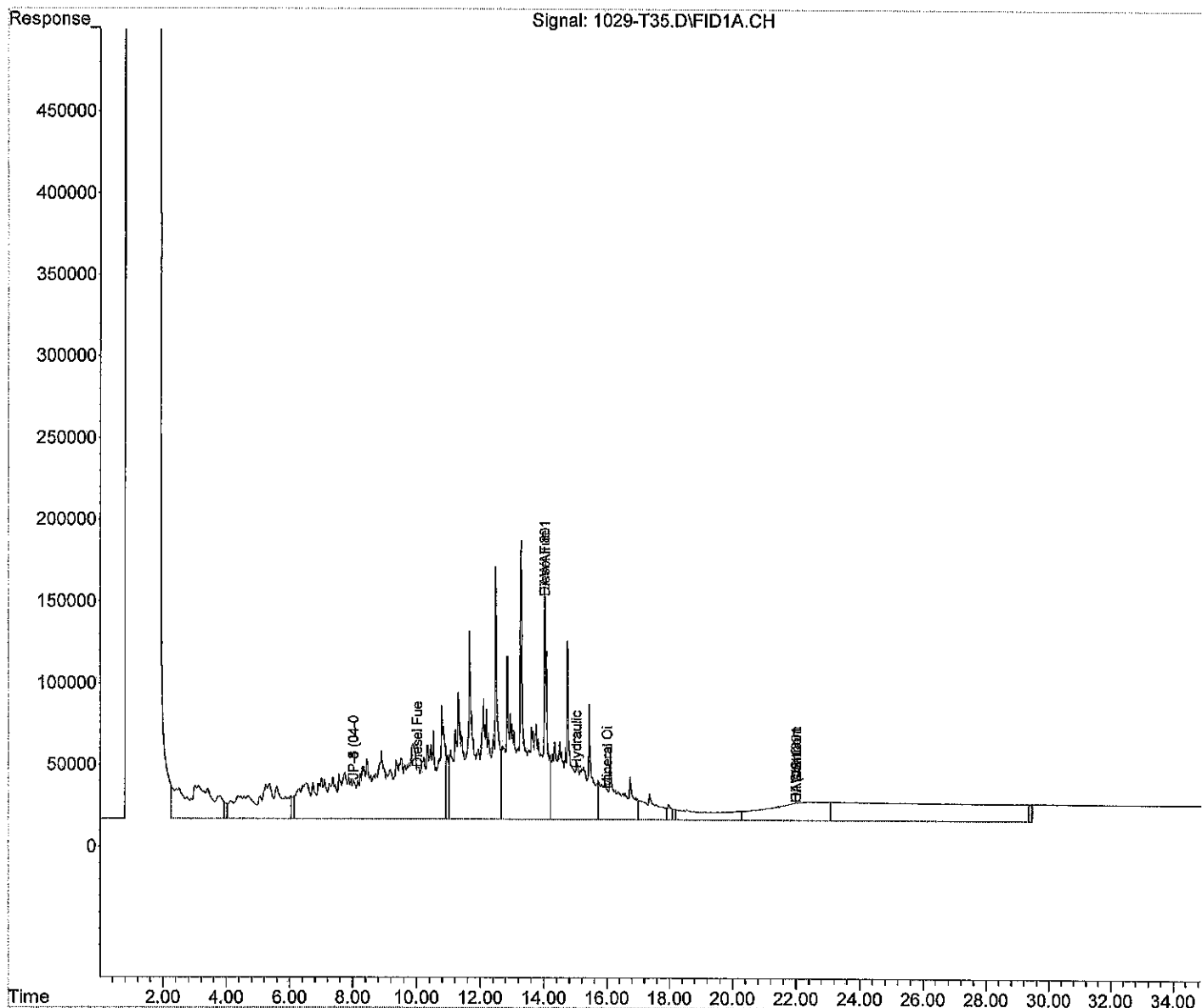
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211029\
Data File : 1029-T35.D
Signal(s) : FID1A.CH
Acq On : 30 Oct 2021 8:09
Operator : JP
Sample : CCV1029F-T4
Misc : Sample
ALS Vial : 35 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 30 08:44:08 2021
Quant Method : C:\MSDCHEM\1\METHODS\T210817F.M
Quant Title : GCTPH
QLast Update : Fri Oct 15 12:18:31 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
 Data File : 1029-V07.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2021 12:19
 Operator : JP
 Sample : CCV1029F-V2
 Misc : Sample
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 12:55:51 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.736	2017779	0.828 PPM
Spiked Amount	50.000	Recovery =	1.66%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	20879799	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	238128833	47.397 PPM
5) H Diesel Fuel #2 (05-2...	14.000	239702770	89.276 PPM
6) H Oil (05-21-21)	22.000	58800752	5.781 PPM
7) H Oil Acid Clean (05-2...	22.000	58800752	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	235251538	90.787 PPM
9) H Oil Combo (05-21-21)	22.000	46775174	0.220 PPM
10) H Oil Acid Clean Combo ...	22.000	46775174	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	238411996	89.671 PPM
12) H HAWAII 8015M Oil (05...	22.000	42134347	N.D. PPM
13) H Mineral Oil (05-21-21)	16.000	154277085	53.567 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	239702770	84.188 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	235251538	85.527 PPM
16) H Hydraulic Oil	16.000	179804185	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	150609046	55.775 PPM
18) H Oil Acid Clean MO Com...	22.000	42716434	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	42716434	N.D. PPM

(f)=RT Delta > 1/2 Window

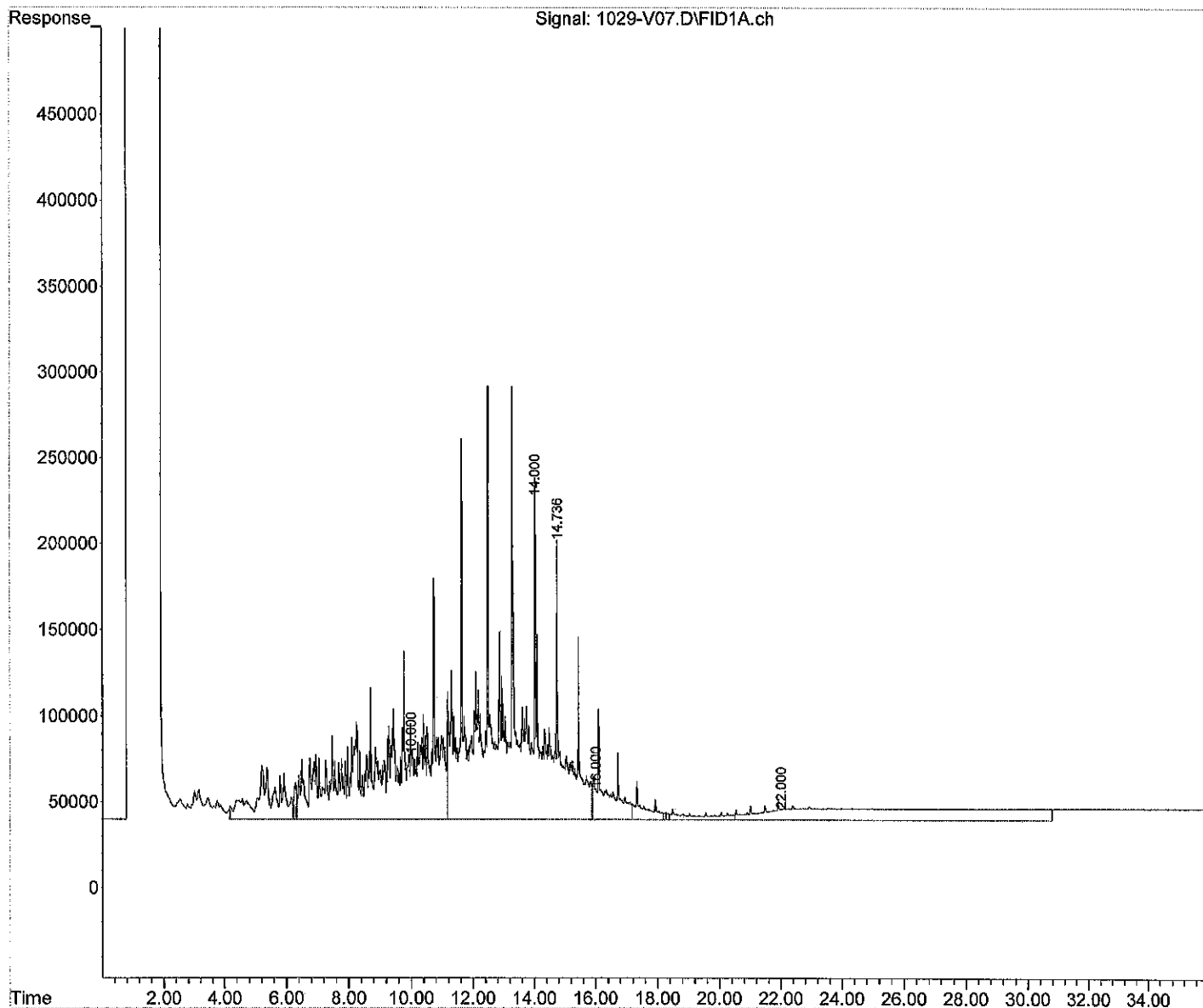
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
Data File : 1029-V07.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2021 12:19
Operator : JP
Sample : CCV1029F-V2
Misc : Sample
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 12:55:51 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
 Data File : 1029-V15.D
 Signal(s) : FID1A.ch
 Acq On : 29 Oct 2021 18:14
 Operator : JP
 Sample : CCV1029F-V3
 Misc : Sample
 ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 18:50:39 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.735	2112615	0.861 PPM
Spiked Amount	50.000	Recovery =	1.72%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	20899250	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	233030049	46.341 PPM
5) H Diesel Fuel #2 (05-2...	14.000	233960331	87.009 PPM
6) H Oil (05-21-21)	22.000	54885193	3.597 PPM
7) H Oil Acid Clean (05-2...	22.000	54885193	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	229758560	88.557 PPM
9) H Oil Combo (05-21-21)	22.000	43269185	N.D. PPM
10) H Oil Acid Clean Combo ...	22.000	43269185	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	232693197	87.393 PPM
12) H HAWAII 8015M Oil (05...	22.000	38873632	N.D. PPM
13) H Mineral Oil (05-21-21)	16.000	149209067	51.719 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	233960331	82.026 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	229758560	83.399 PPM
16) H Hydraulic Oil	16.000	173371835	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	146162782	54.092 PPM
18) H Oil Acid Clean MO Com...	22.000	39421968	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	39421968	N.D. PPM

(f)=RT Delta > 1/2 Window

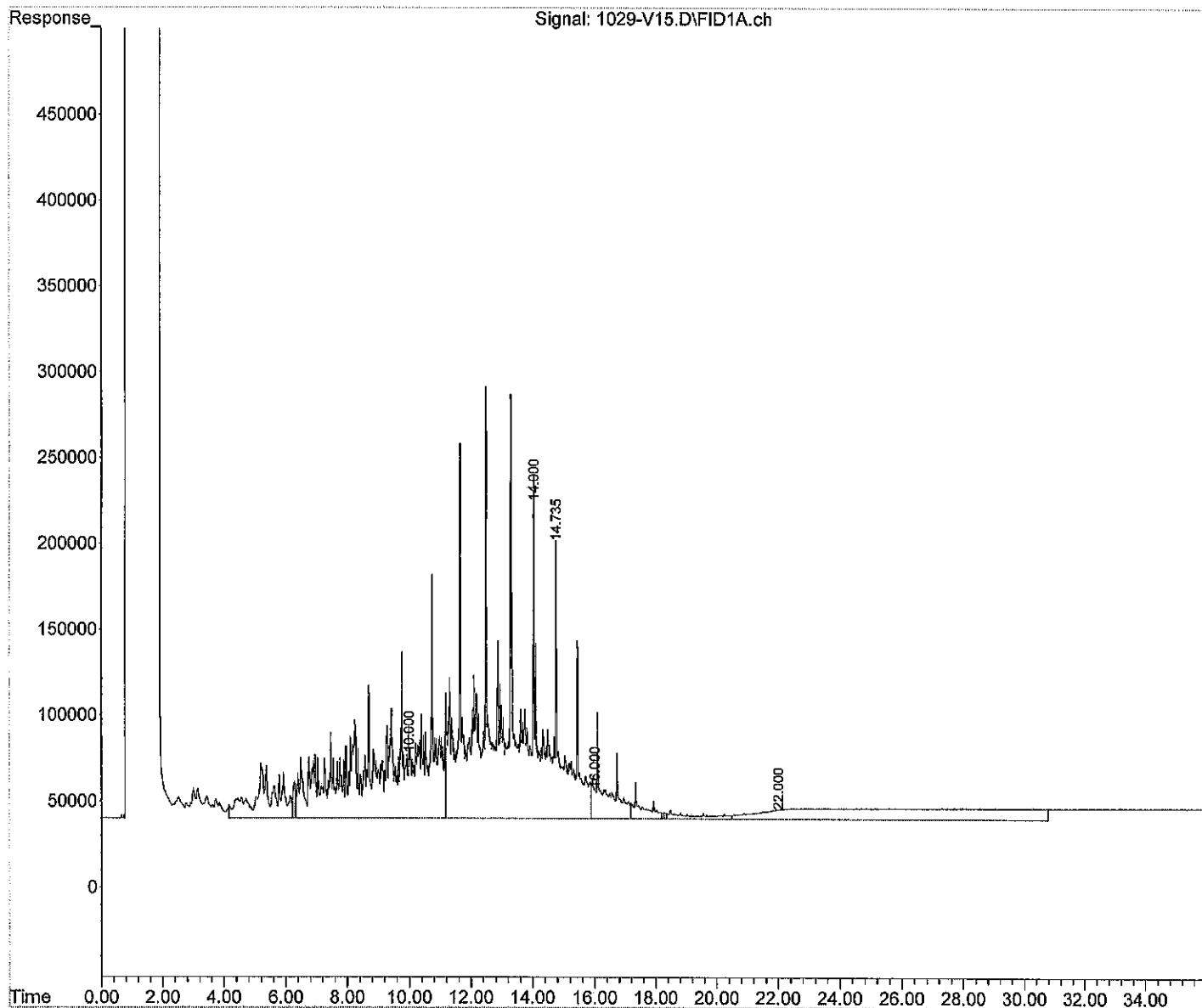
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029\
Data File : 1029-V15.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2021 18:14
Operator : JP
Sample : CCV1029F-V3
Misc : Sample
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 18:50:39 2021
Quant Method : C:\MSDCHEM2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029.SEC\
 Data File : 1029-V57.D
 Signal(s) : FID2B.ch
 Acq On : 29 Oct 2021 12:19
 Operator : JP
 Sample : CCV1029R-V2
 Misc : RearSamp
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 12:56:26 2021
 Quant Method : C:\MSDCHEM2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 08 09:57:06 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-19-21)	14.711	1819858	1.036 PPM
Spiked Amount	50.000	Recovery =	2.07%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	28571142	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	205364437	46.172 PPM
5) H Diesel Fuel #2 (05-1...	14.000	208438146	94.532 PPM
6) H Oil (05-19-21)	22.000	52651932	18.195 PPM
7) H Oil Acid Clean (05-21...	22.000	52651932	18.737 PPM
8) H Diesel Fuel #2 Combo ...	14.000	203375795	95.091 PPM
9) H Oil Combo (05-19-21)	22.000	40448005	11.008 PPM
10) H Oil Acid Clean Combo ...	22.000	40448005	12.148 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	207606143	94.984 PPM
12) H HAWAII 8015M Oil (05...	22.000	35309489	8.457 PPM
13) H Mineral Oil (05-19-21)	16.000	140676458	59.996 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	208438146	82.283 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	203375795	83.052 PPM
16) H Hydraulic Oil (03-19...	14.000	149993410	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	135605941	60.664 PPM
18) H Oil Acid Clean MO Com...	22.000	34681292	9.604 PPM
19) H Oil MO Combo (05-19-21)	22.000	34681292	8.069 PPM
20) H JP-4 (03-24-21)	8.000	144990687	NoCal PPM
21) H JP-5 (03-25-21)	8.000	130539546	NoCal PPM
22) H JP-8 (03-26-21)	8.000	175314432	NoCal PPM

(f)=RT Delta > 1/2 Window

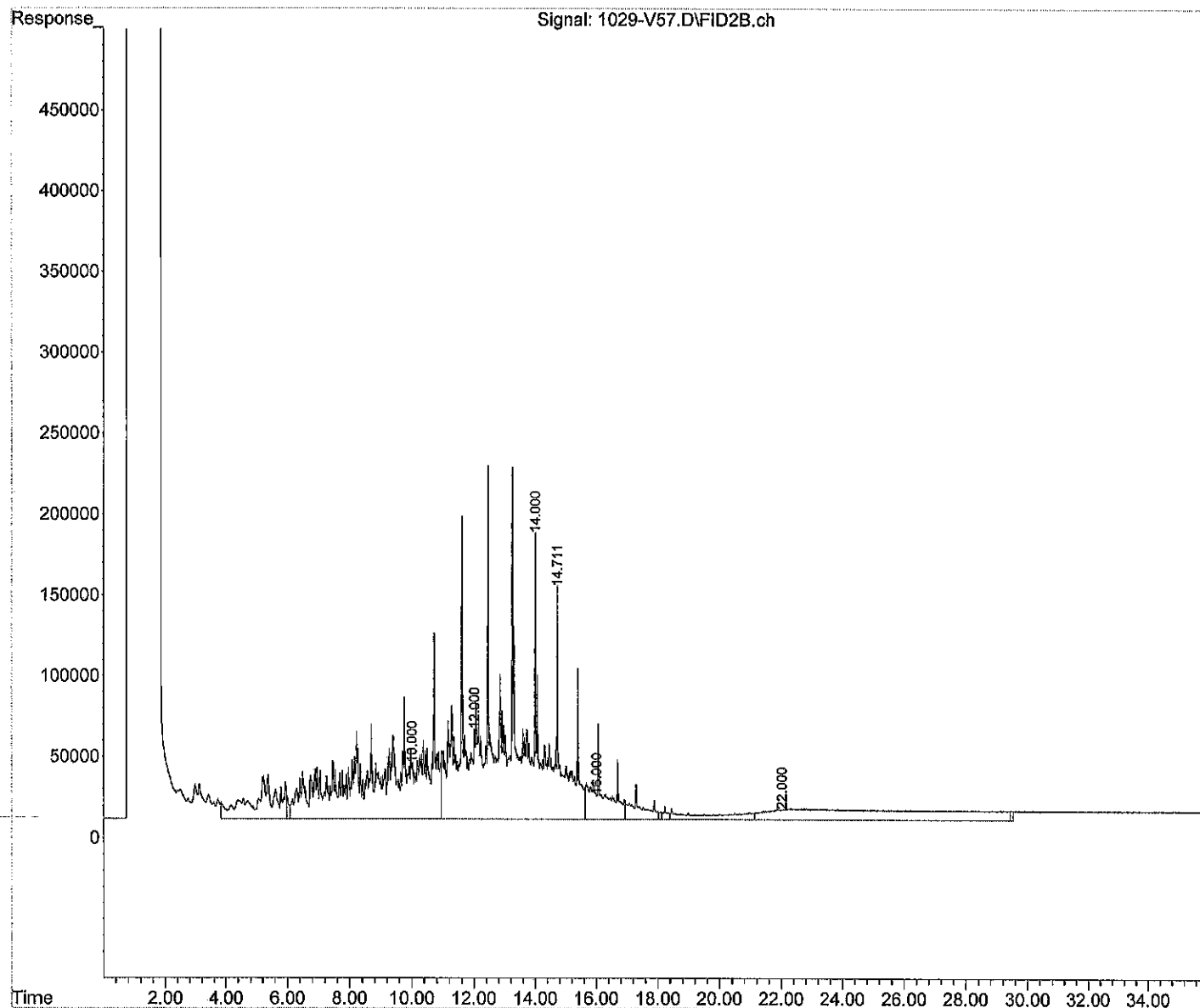
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029.SEC\
Data File : 1029-V57.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2021 12:19
Operator : JP
Sample : CCV1029R-V2
Misc : RearSamp
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 12:56:26 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Oct 08 09:57:06 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029.SEC\
 Data File : 1029-V65.D
 Signal(s) : FID2B.ch
 Acq On : 29 Oct 2021 18:14
 Operator : JP
 Sample : CCV1029R-V3
 Misc : RearSamp
 ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Oct 29 18:51:14 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 08 09:57:06 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-19-21)	14.710	1966866	1.095 PPM
Spiked Amount	50.000	Recovery =	2.19%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	28499893	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	207851066	46.779 PPM
5) H Diesel Fuel #2 (05-1...	14.000	210677721	95.596 PPM
6) H Oil (05-19-21)	22.000	45992106	13.953 PPM
7) H Oil Acid Clean (05-21...	22.000	45992106	14.775 PPM
8) H Diesel Fuel #2 Combo ...	14.000	205784758	96.267 PPM
9) H Oil Combo (05-19-21)	22.000	33826386	6.726 PPM
10) H Oil Acid Clean Combo ...	22.000	33826386	8.149 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	209857633	96.061 PPM
12) H HAWAII 8015M Oil (05...	22.000	28874061	4.151 PPM
13) H Mineral Oil (05-19-21)	16.000	140339669	59.848 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	210677721	83.206 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	205784758	84.075 PPM
16) H Hydraulic Oil (03-19...	14.000	148220776	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	136560256	61.092 PPM
18) H Oil Acid Clean MO Com...	22.000	28316967	5.587 PPM
19) H Oil MO Combo (05-19-21)	22.000	28316967	3.767 PPM
20) H JP-4 (03-24-21)	8.000	146373132	NoCal PPM
21) H JP-5 (03-25-21)	8.000	132378234	NoCal PPM
22) H JP-8 (03-26-21)	8.000	177608868	NoCal PPM

(f)=RT Delta > 1/2 Window

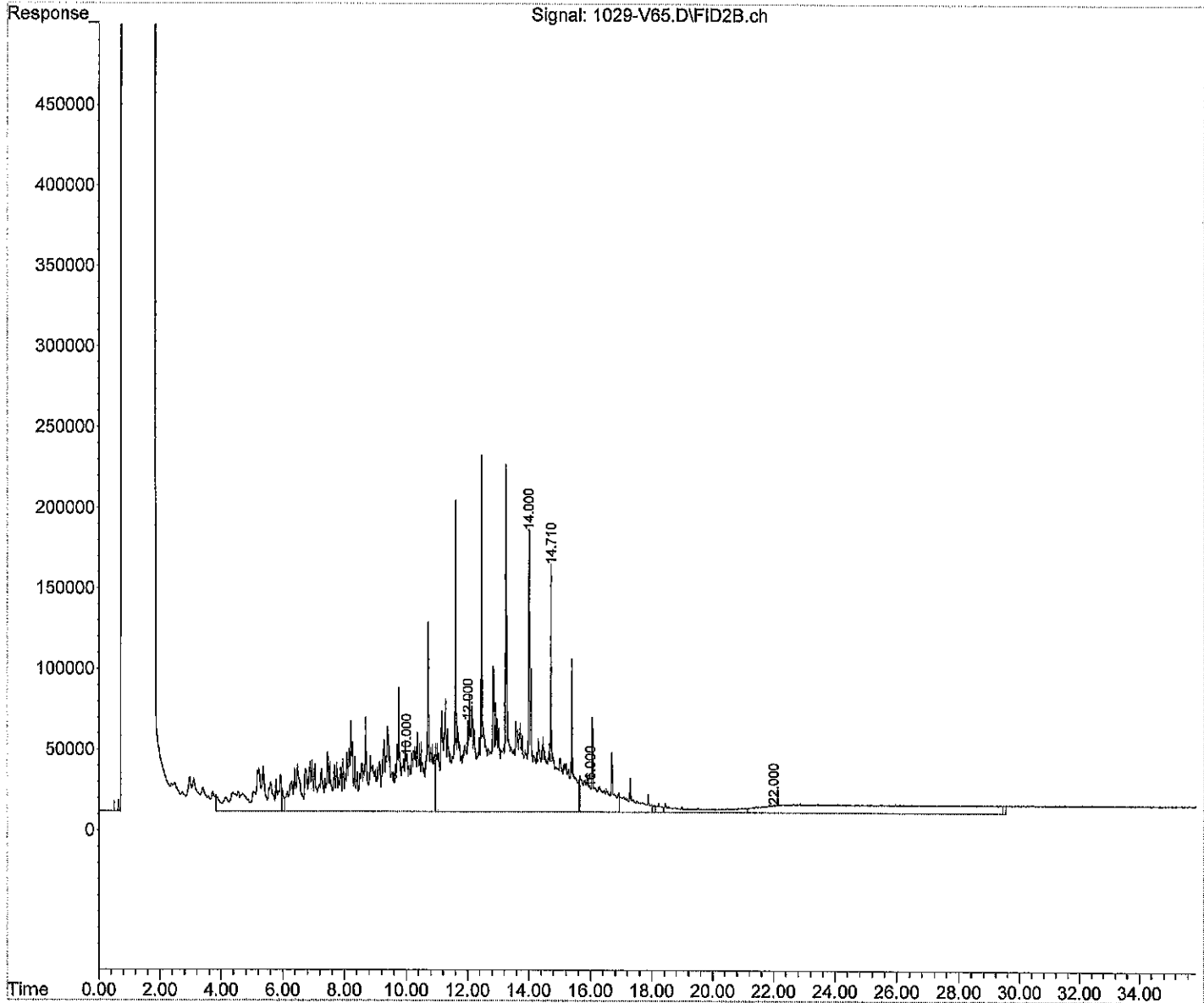
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211029.SEC\
Data File : 1029-V65.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2021 18:14
Operator : JP
Sample : CCV1029R-V3
Misc : RearSamp
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 29 18:51:14 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Oct 08 09:57:06 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211101.SEC\
 Data File : 1101-T55.D
 Signal(s) : FID2B.CH
 Acq On : 01 Nov 2021 10:38
 Operator : JP
 Sample : CCV1101R-T1
 Misc : RearSamp
 ALS Vial : 55 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Nov 01 11:14:37 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T211028R.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 29 08:03:54 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-04-20)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%

Target Compounds

2) H Gasoline	4.000	42650499	NoCal PPM
3) H Diesel Fuel #1 (05-27...	10.000	262800678	93.968 PPM
4) H Diesel Fuel #2 (01-23...	14.000	261330943	100.841 PPM
5) H Oil (10-28-21)	22.000	92695132	17.582 PPM
6) H Oil Acid Clean (05-01...	22.000	92695132	23.836 PPM
7) H Diesel Fuel #2 Combo ...	14.000	255381326	101.390 PPM
8) H Oil Combo (10-28-21)	22.000	80115117	13.938 PPM
9) H Oil Acid Clean Combo ...	22.000	80115117	19.400 PPM
10) H Oil MO Combo (10-28-21)	22.000	74817312	12.824 PPM
11) H Oil Acid Clean MO Com...	22.000	74817312	18.225 PPM
12) H HAWAII 8015M DF2 (01-...	14.000	259768462	99.133 PPM
13) H HAWAII 8015M Oil (10-...	22.000	73851844	12.359 PPM
14) H Mineral Oil (05-01-20)	16.000	167924716	57.823 PPM
15) H Mineral Oil Combo (05...	16.000	159890481	58.951 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	261330943	86.896 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	255381326	87.433 PPM

(f)=RT Delta > 1/2 Window

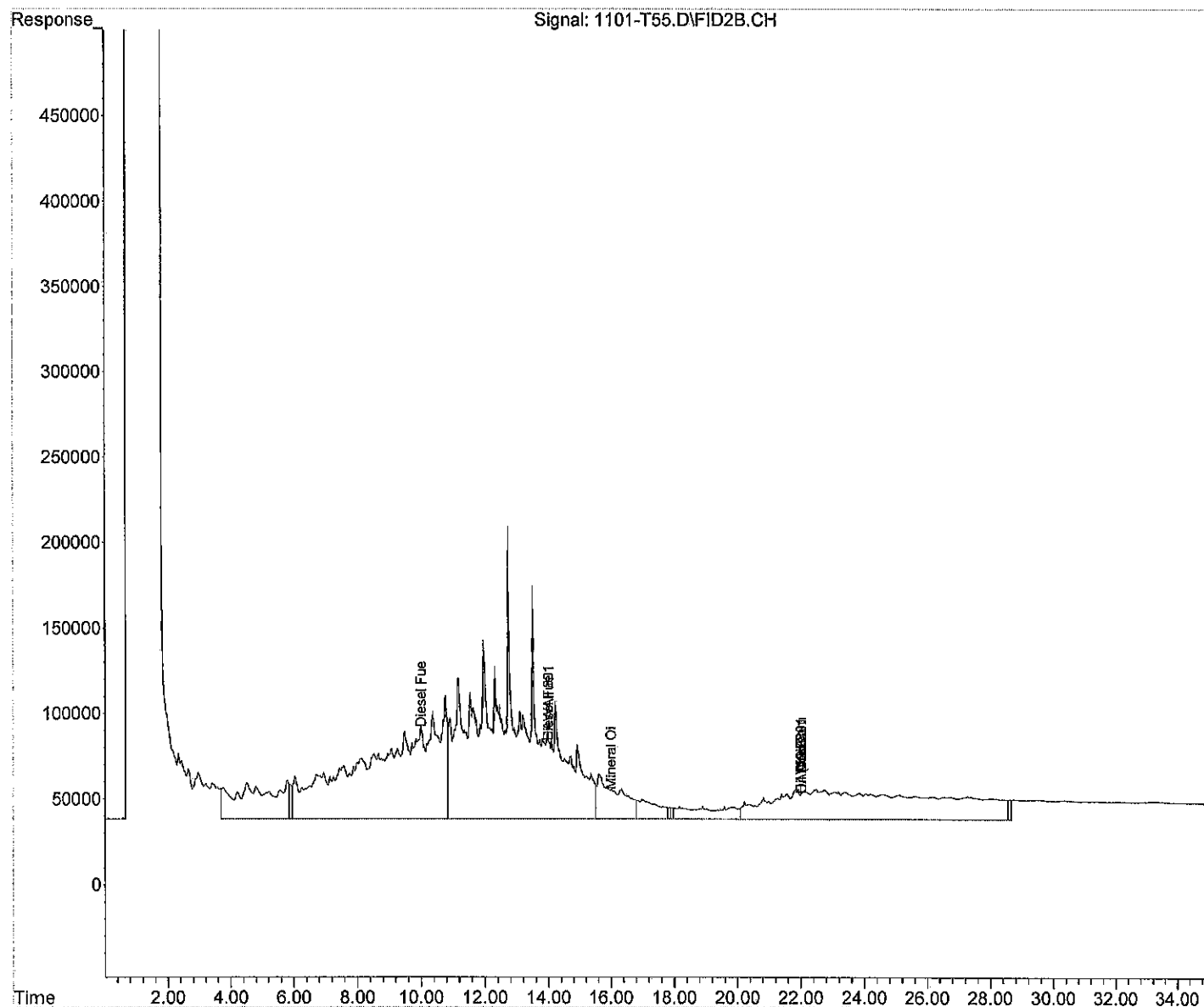
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211101.SEC\
Data File : 1101-T55.D
Signal(s) : FID2B.CH
Acq On : 01 Nov 2021 10:38
Operator : JP
Sample : CCV1101R-T1
Misc : RearSamp
ALS Vial : 55 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 11:14:37 2021
Quant Method : C:\MSDCHEM1\METHODS\T211028R.M
Quant Title : GCTPH
QLast Update : Fri Oct 29 08:03:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211101.SEC\
 Data File : 1101-T61.D
 Signal(s) : FID2B.CH
 Acq On : 01 Nov 2021 14:52
 Operator : JP
 Sample : CCV1101R-T2
 Misc : RearSamp
 ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Nov 01 15:27:36 2021
 Quant Method : C:\MSDCHEM\1\METHODS\T211028R.M
 Quant Title : GCTPH
 QLast Update : Fri Oct 29 08:03:54 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-04-20)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%

Target Compounds

2) H Gasoline	4.000	43251678	NoCal PPM
3) H Diesel Fuel #1 (05-27...	10.000	274295601	98.276 PPM
4) H Diesel Fuel #2 (01-23...	14.000	272904891	105.594 PPM
5) H Oil (10-28-21)	22.000	59808804	6.463 PPM
6) H Oil Acid Clean (05-01...	22.000	59808804	9.247 PPM
7) H Diesel Fuel #2 Combo ...	14.000	267143478	106.339 PPM
8) H Oil Combo (10-28-21)	22.000	46747025	2.384 PPM
9) H Oil Acid Clean Combo ...	22.000	46747025	4.397 PPM
10) H Oil MO Combo (10-28-21)	22.000	41572242	0.887 PPM
11) H Oil Acid Clean MO Com...	22.000	41572242	2.887 PPM
12) H HAWAII 8015M DF2 (01-...	14.000	271314689	103.771 PPM
13) H HAWAII 8015M Oil (10-...	22.000	40908934	0.411 PPM
14) H Mineral Oil (05-01-20)	16.000	172772964	59.610 PPM
15) H Mineral Oil Combo (05...	16.000	166849092	61.619 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	272904891	91.006 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	267143478	91.717 PPM

(f)=RT Delta > 1/2 Window

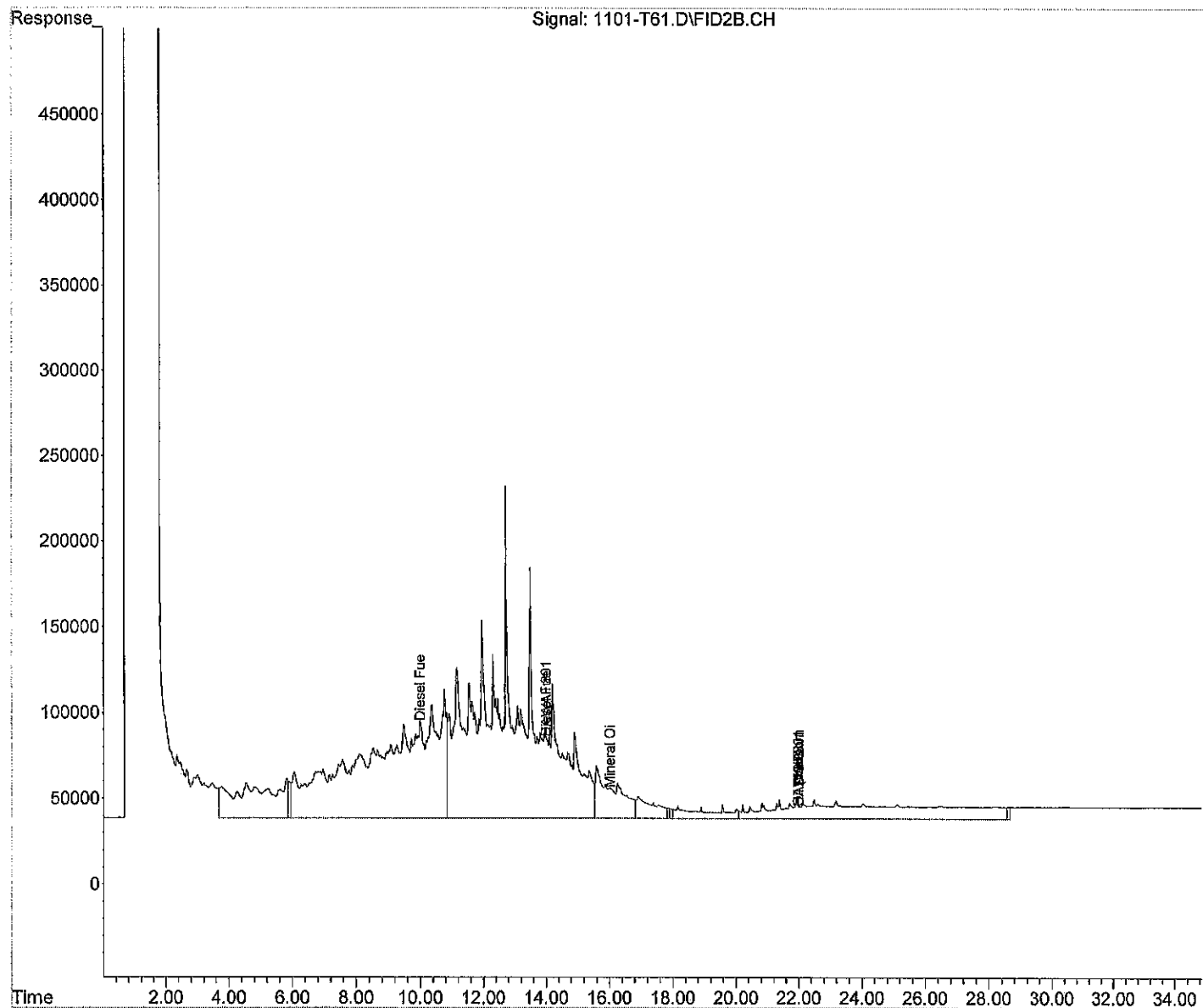
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\T211101.SEC\
Data File : 1101-T61.D
Signal(s) : FID2B.CH
Acq On : 01 Nov 2021 14:52
Operator : JP
Sample : CCV1101R-T2
Misc : RearSamp
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 01 15:27:36 2021
Quant Method : C:\MSDCHEM\1\METHODS\T211028R.M
Quant Title : GCTPH
QLast Update : Fri Oct 29 08:03:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
 Data File : 1101-V08.D
 Signal(s) : FID1A.ch
 Acq On : 1 Nov 2021 12:50
 Operator : JP
 Sample : CCV1101F-V3
 Misc : Sample
 ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Nov 01 13:26:44 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.736	1924157	0.796 PPM
Spiked Amount	50.000	Recovery =	1.59%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	21104531	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	234308722	46.606 PPM
5) H Diesel Fuel #2 (05-2...	14.000	235377350	87.568 PPM
6) H Oil (05-21-21)	22.000	56096939	4.273 PPM
7) H Oil Acid Clean (05-2...	22.000	56096939	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	231078666	89.093 PPM
9) H Oil Combo (05-21-21)	22.000	44332261	N.D. PPM
10) H Oil Acid Clean Combo ...	22.000	44332261	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	234104135	87.955 PPM
12) H HAWAII 8015M Oil (05...	22.000	39844570	N.D. PPM
13) H Mineral Oil (05-21-21)	16.000	150700492	52.263 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	235377350	82.560 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	231078666	83.911 PPM
16) H Hydraulic Oil	16.000	175252812	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	147361069	54.545 PPM
18) H Oil Acid Clean MO Com...	22.000	40400697	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	40400697	N.D. PPM

(f)=RT Delta > 1/2 Window

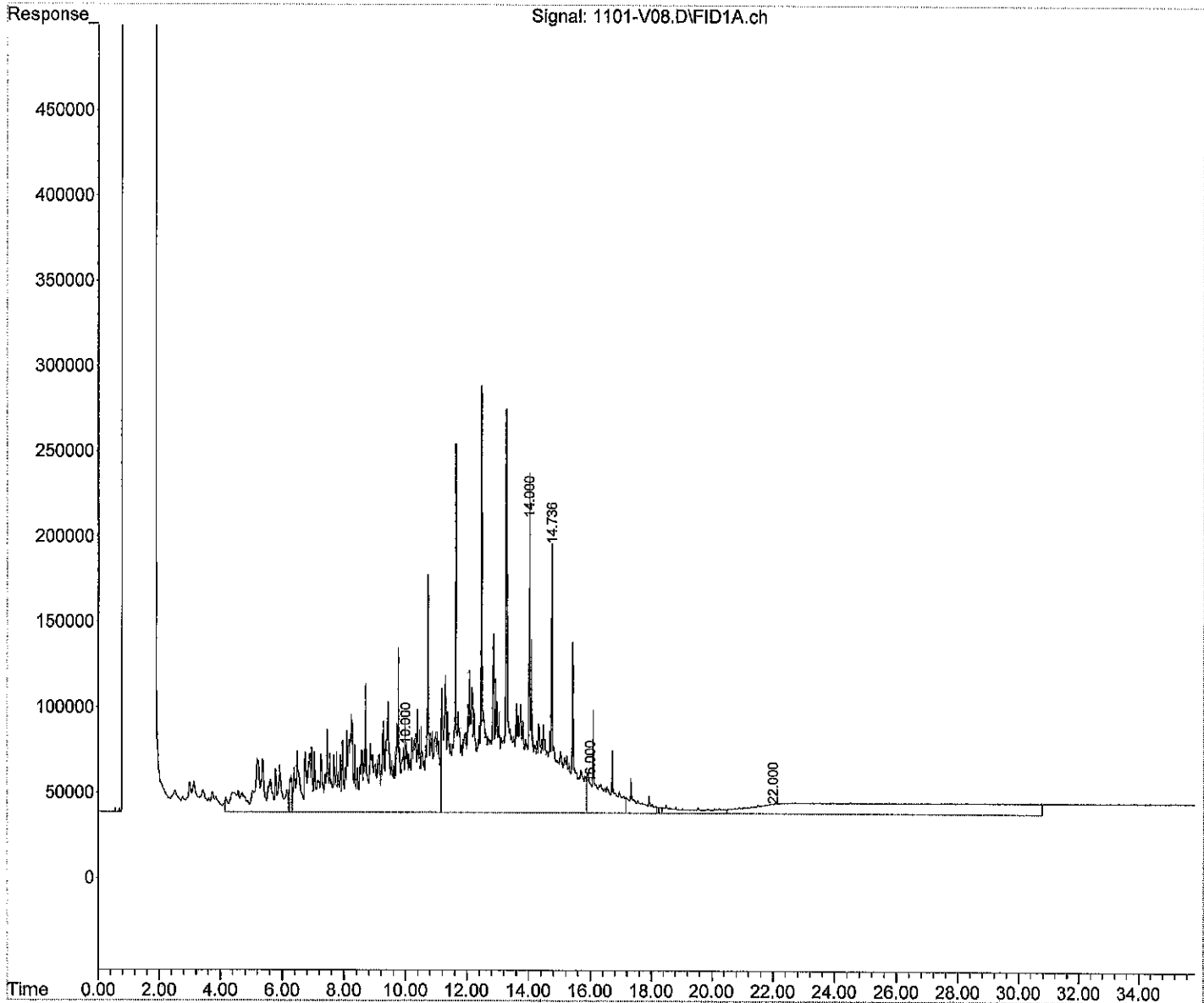
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
Data File : 1101-V08.D
Signal(s) : FID1A.ch
Acq On : 1 Nov 2021 12:50
Operator : JP
Sample : CCV1101F-V3
Misc : Sample
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 13:26:44 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
 Data File : 1101-V22.D
 Signal(s) : FID1A.ch
 Acq On : 1 Nov 2021 22:11
 Operator : JP
 Sample : CCV1101F-V4
 Misc : Sample
 ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Nov 01 22:47:12 2021
 Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
 Quant Title : GCTPH
 QLast Update : Wed Sep 22 08:37:48 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

1) S O-Terphenyl (05-21-21)	14.735	1969881	0.812 PPM
Spiked Amount	50.000	Recovery =	1.62%

Target Compounds

2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	21432453	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	236694299	47.100 PPM
5) H Diesel Fuel #2 (05-2...	14.000	237143813	88.265 PPM
6) H Oil (05-21-21)	22.000	51484489	1.701 PPM
7) H Oil Acid Clean (05-2...	22.000	51484489	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	233096744	89.912 PPM
9) H Oil Combo (05-21-21)	22.000	39858305	N.D. PPM
10) H Oil Acid Clean Combo ...	22.000	39858305	N.D. PPM
11) H HAWAII 8015M DF2 (05...	14.000	235877862	88.662 PPM
12) H HAWAII 8015M Oil (05...	22.000	35629493	N.D. PPM
13) H Mineral Oil (05-21-21)	16.000	150788919	52.296 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	237143813	83.225 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	233096744	84.693 PPM
16) H Hydraulic Oil	16.000	174886891	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	148077534	54.817 PPM
18) H Oil Acid Clean MO Com...	22.000	36140415	N.D. PPM
19) H Oil MO Combo (05-21-21)	22.000	36140415	N.D. PPM

(f)=RT Delta > 1/2 Window

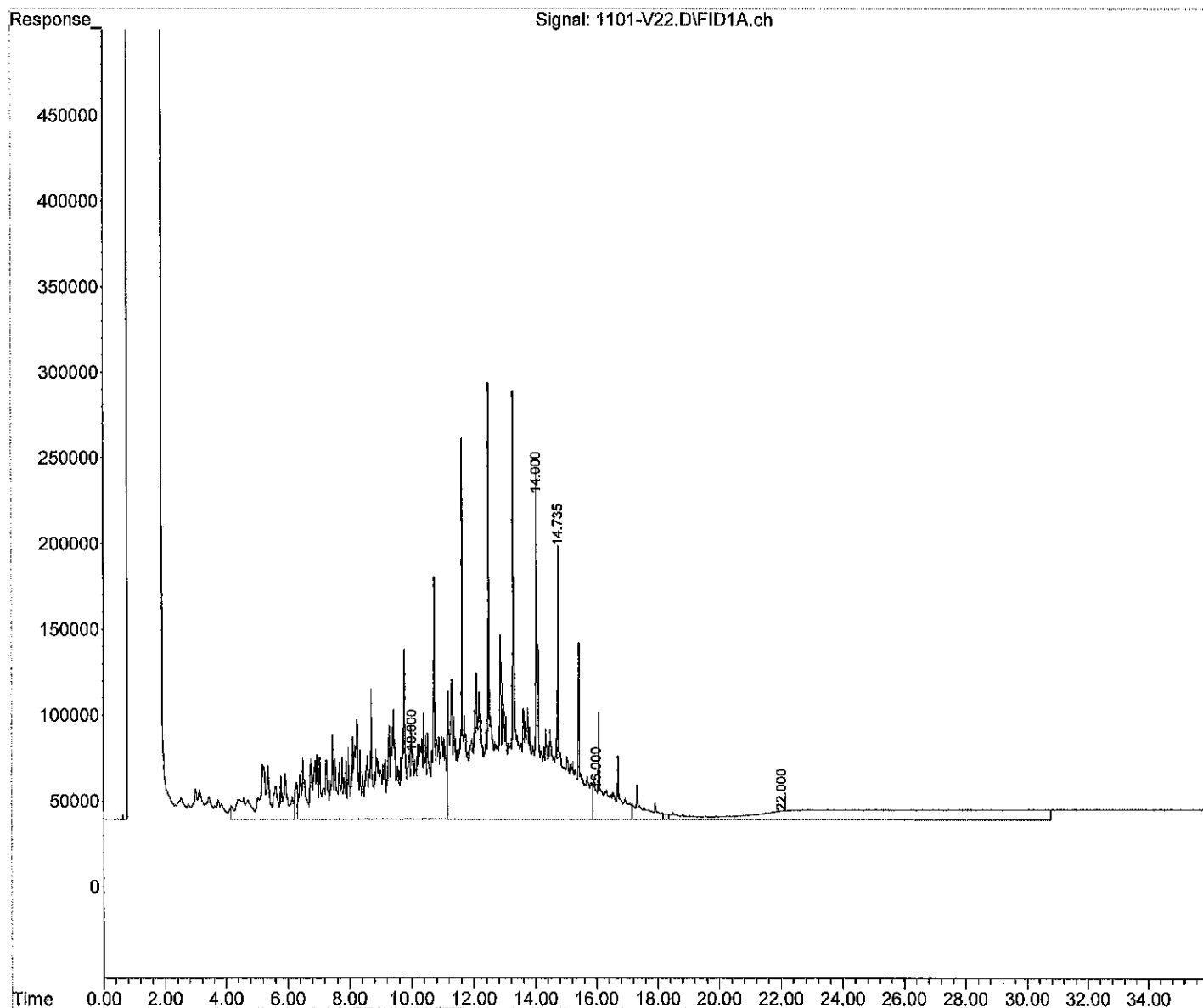
(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\2\data\V211101\
Data File : 1101-V22.D
Signal(s) : FID1A.ch
Acq On : 1 Nov 2021 22:11
Operator : JP
Sample : CCV1101F-V4
Misc : Sample
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 01 22:47:12 2021
Quant Method : C:\MSDCHEM\2\METHODS\V210519F.M
Quant Title : GCTPH
QLast Update : Wed Sep 22 08:37:48 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Volatiles Organics
EPA 8260D Data

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101021.d
 Acq On : 1 Nov 2021 5:48 pm
 Operator :
 Sample : 10-231-01g
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

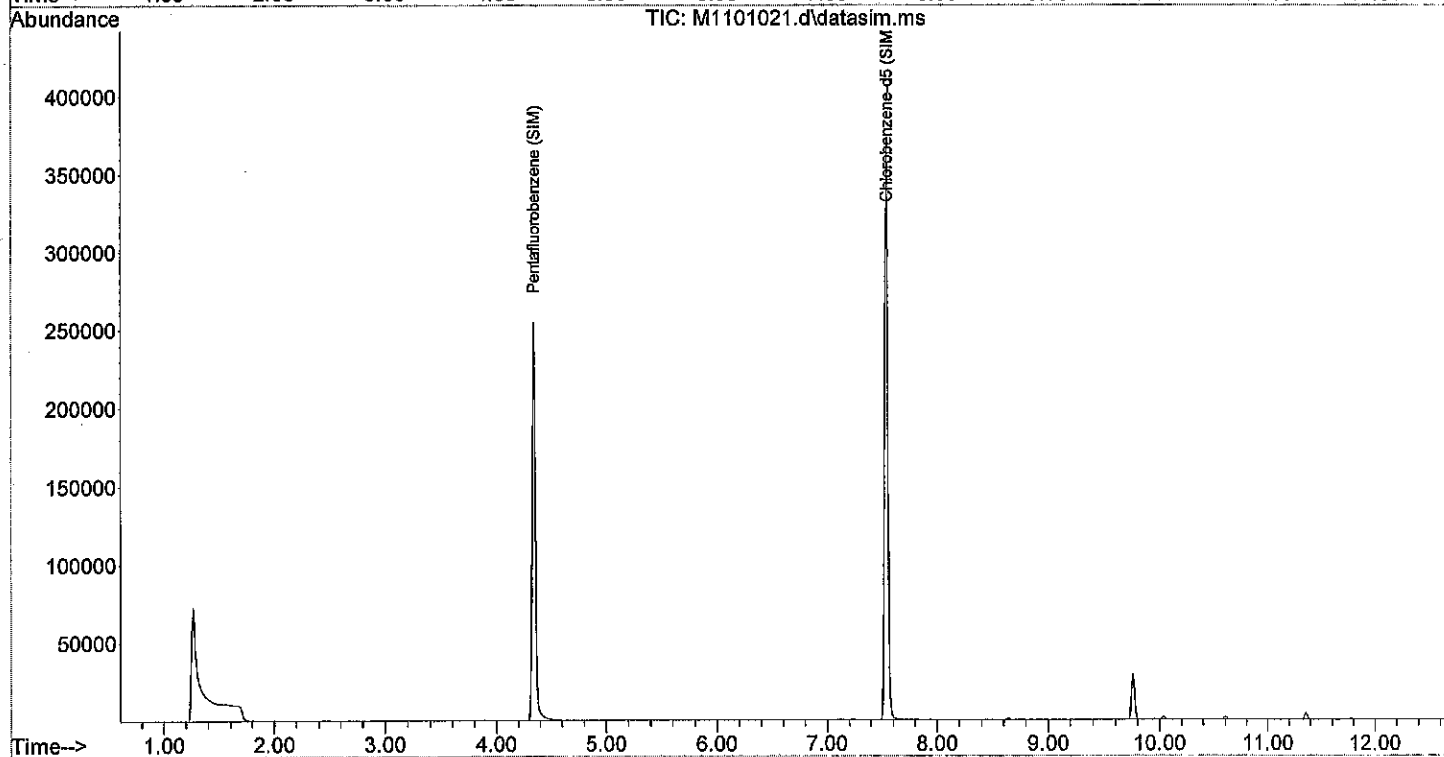
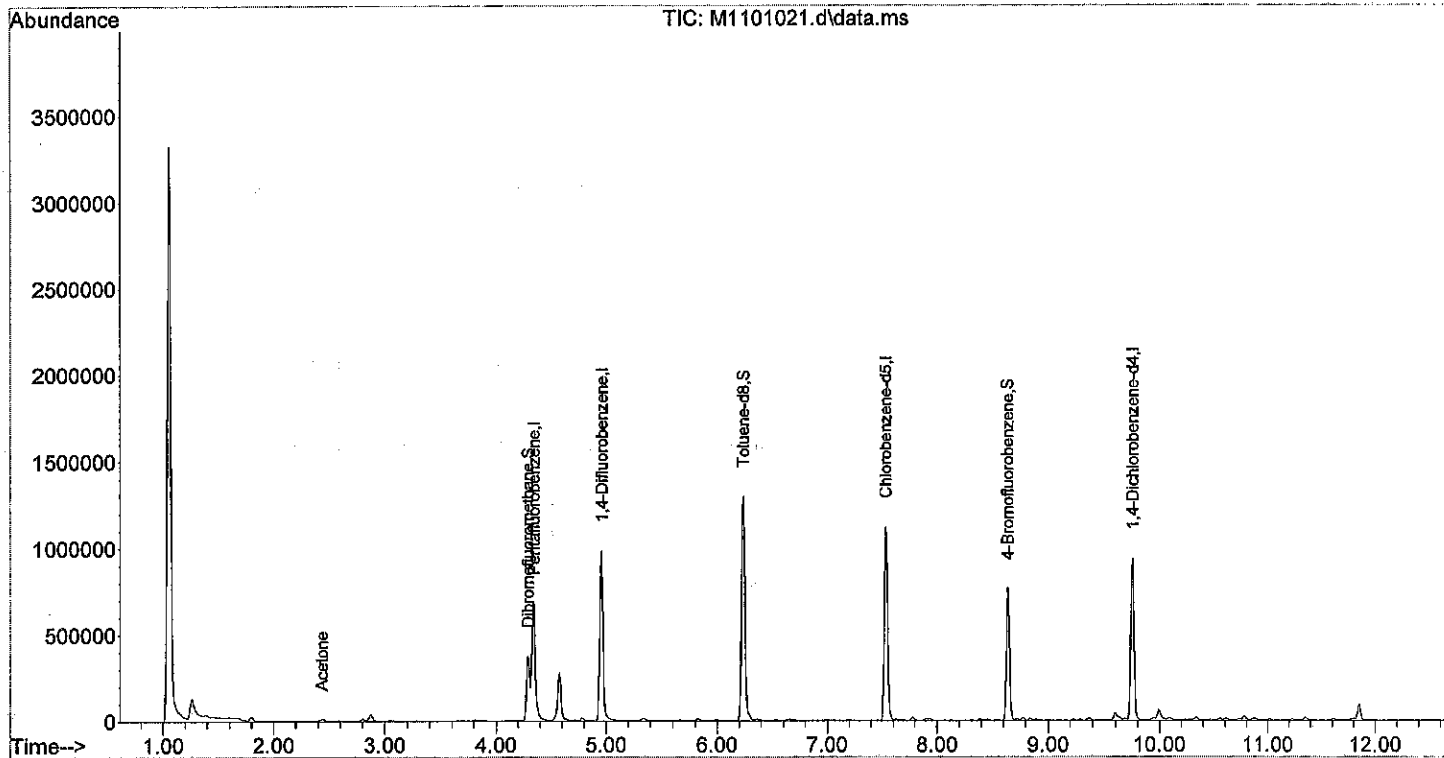
Quant Time: Nov 01 18:01:20 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

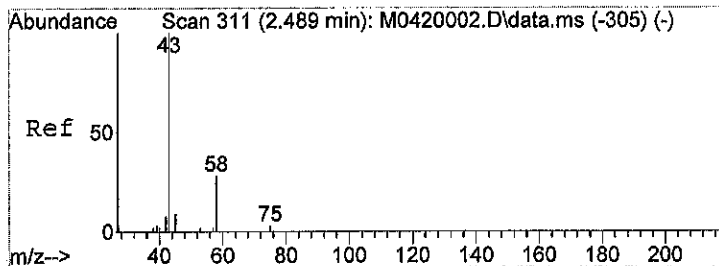
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	506810	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	520027	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	853373	10.00	ppb	0.00
41) Chlorobenzene-d5	7.530	117	718081	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	725413	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	296582	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	247294	9.98	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	99.80%
39) Toluene-d8	6.237	98	968215	10.03	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.30%
57) 4-Bromofluorobenzene	8.636	95	307355	9.70	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	97.00%
Target Compounds						
9) Acetone	2.433	43	7566	2.38	ppb	Qvalue # 67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101021.d
 Acq On : 1 Nov 2021 5:48 pm
 Operator :
 Sample : 10-231-01g
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

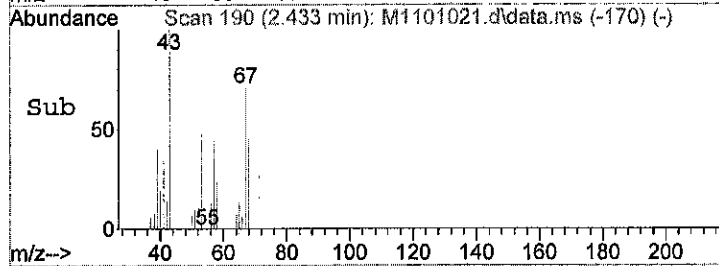
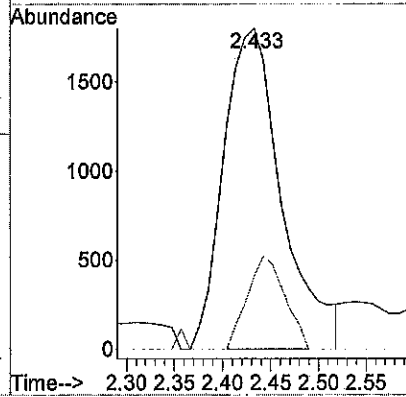
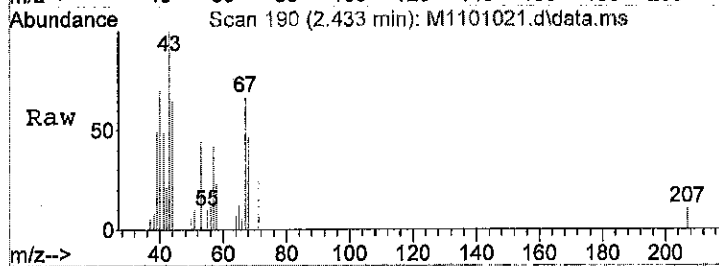
Quant Time: Nov 01 18:01:20 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration





#9
 Acetone
 Concen: 2.38 ppb
 RT: 2.433 min Scan# 190
 Delta R.T. -0.009 min
 Lab File: M1101021.d
 Acq: 1 Nov 2021 5:48 pm

Tgt Ion: 43 Resp: 7566
 Ion Ratio Lower Upper
 43 100
 58 18.7 30.9 46.3#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101021.d
 Acq On : 1 Nov 2021 5:48 pm
 Operator :
 Sample : 10-231-01g
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 02 09:56:19 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

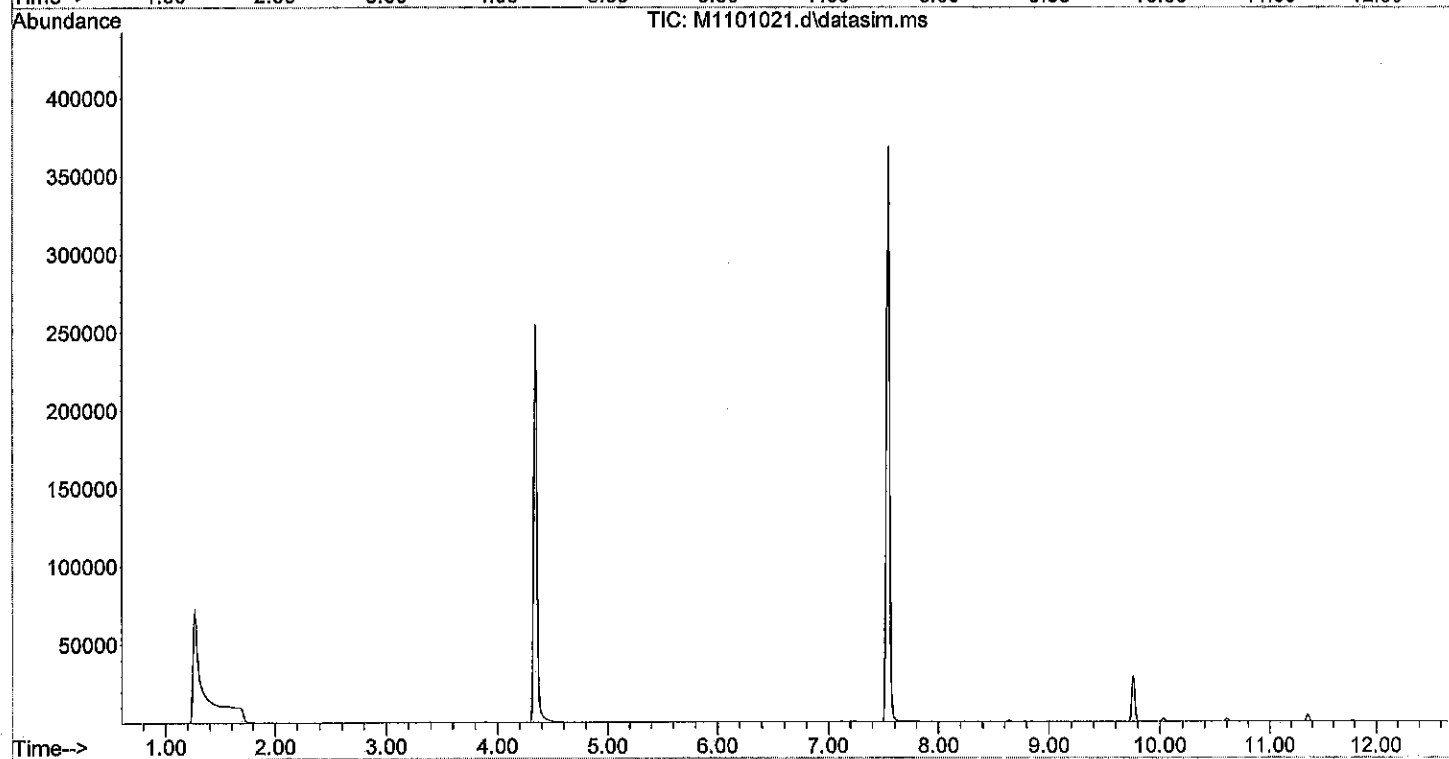
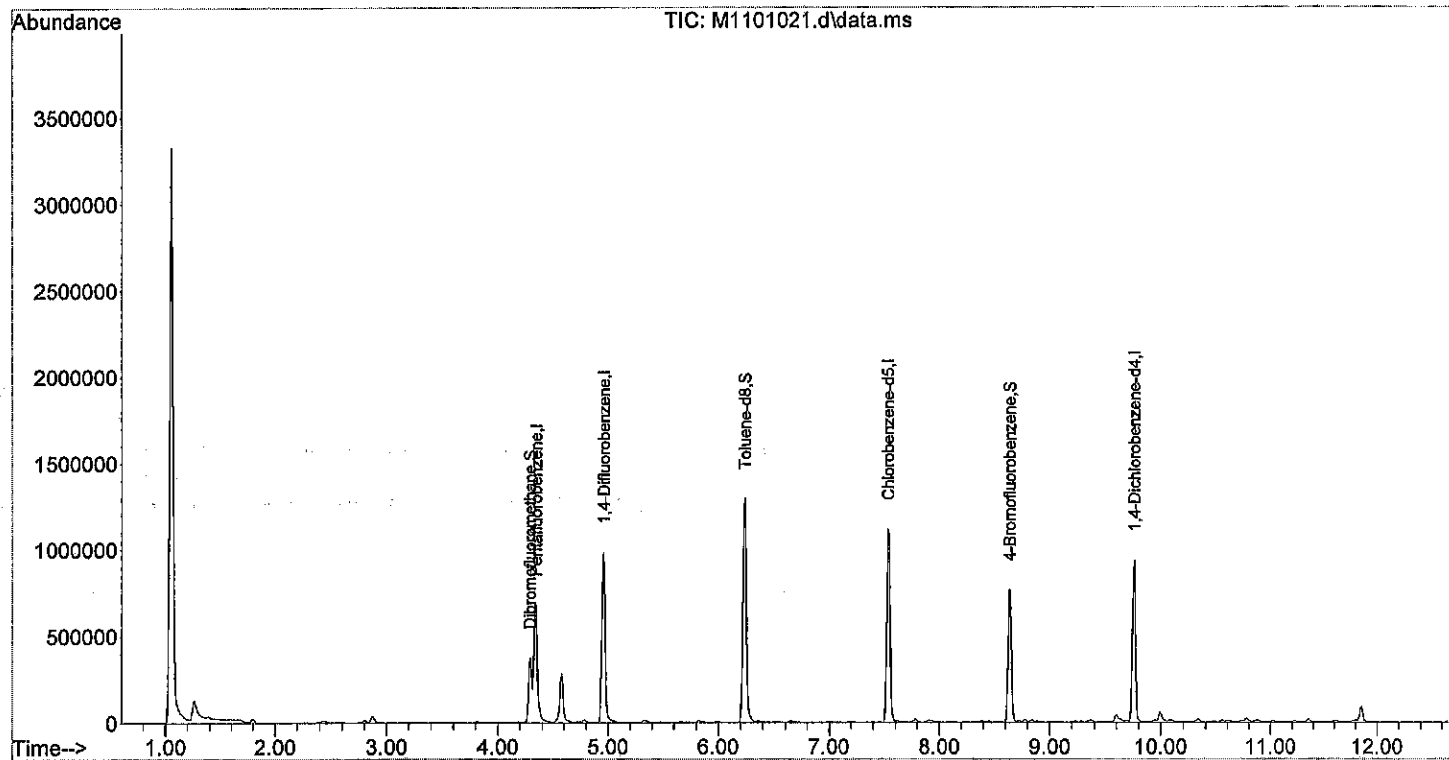
Internal Standards						
1) Pentafluorobenzene	4.342	168	506810	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	853373	10.00	ppb	0.00
6) Chlorobenzene-d5	7.530	117	717800	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	296582	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	247294	10.34	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	103.40%	
5) Toluene-d8	6.237	98	968215	10.11	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	101.10%	
7) 4-Bromofluorobenzene	8.636	95	307569	10.07	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	100.70%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101021.d
 Acq On : 1 Nov 2021 5:48 pm
 Operator :
 Sample : 10-231-01g
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 02 09:56:19 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101017.d
 Acq On : 1 Nov 2021 4:00 pm
 Operator :
 Sample : 10-231-02g
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

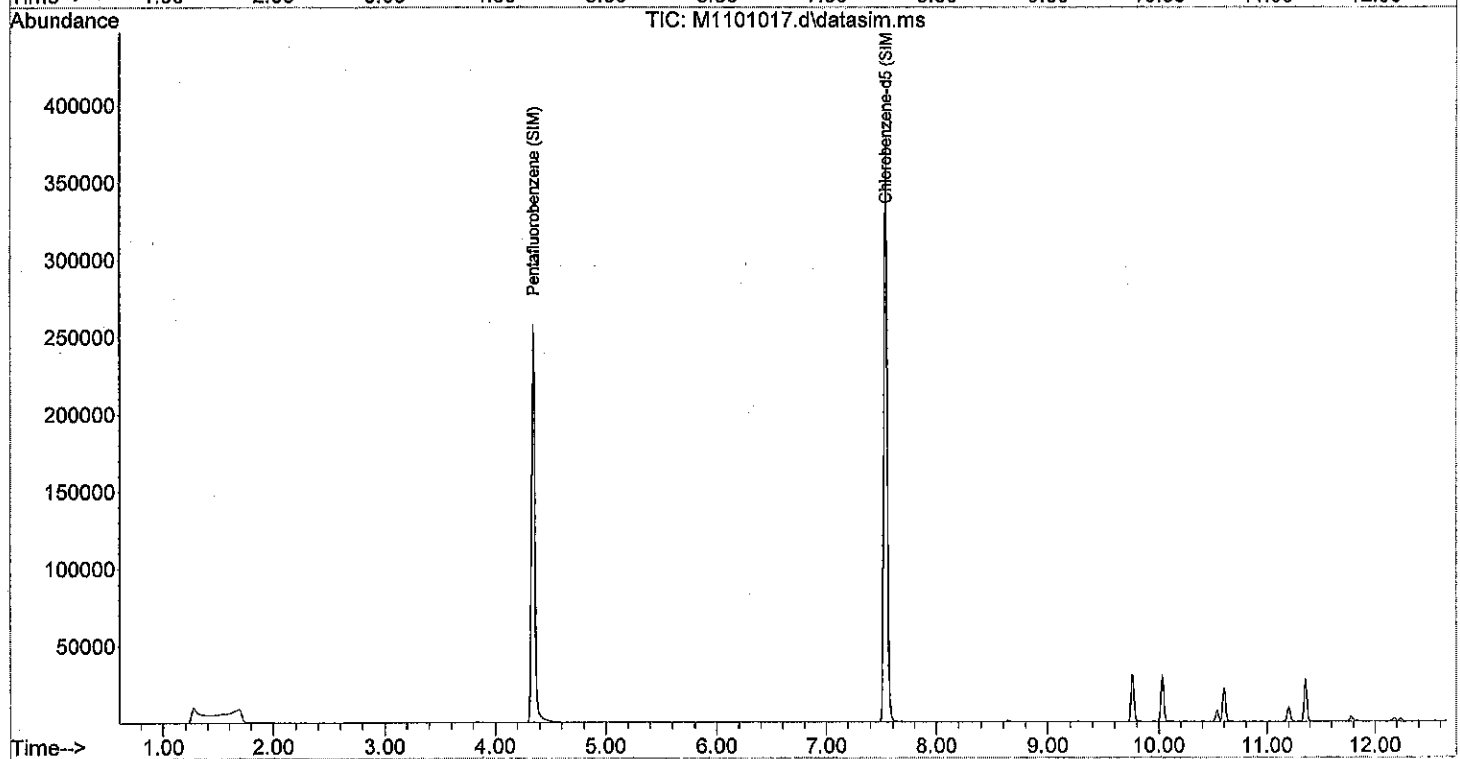
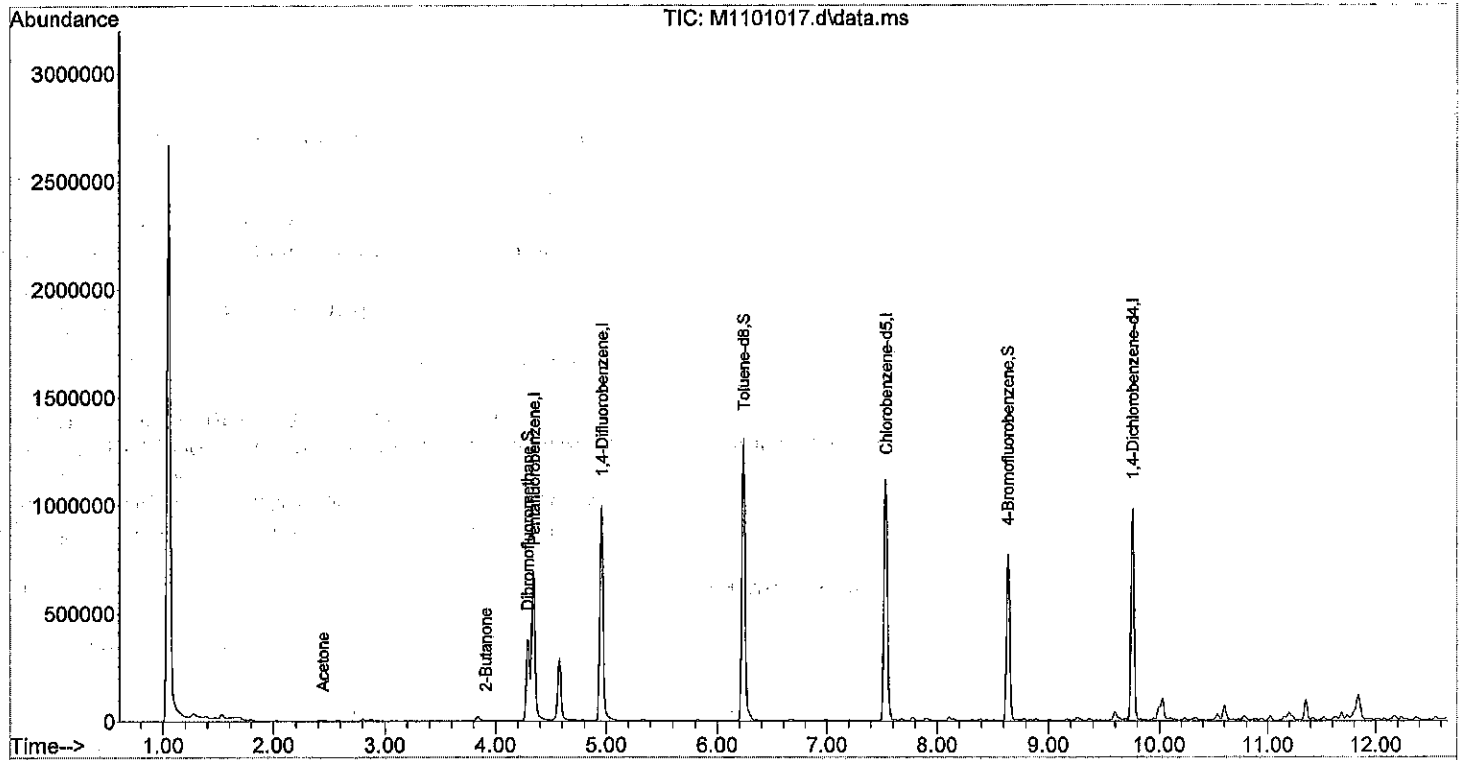
Quant Time: Nov 01 16:16:33 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

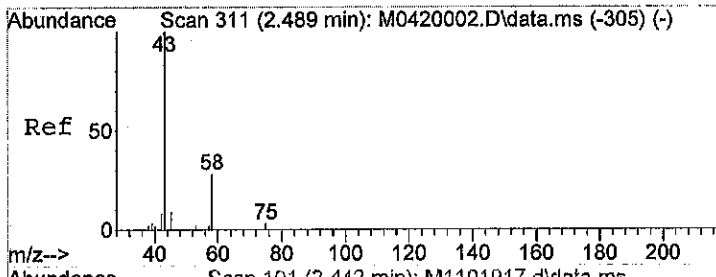
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	511115	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	528175	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	863458	10.00	ppb	0.00
41) Chlorobenzene-d5	7.537	117	730232	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.535	117	741409	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.757	152	313474	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	252006	10.09	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	100.90%
39) Toluene-d8	6.236	98	962972	9.86	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.60%
57) 4-Bromofluorobenzene	8.636	95	312028	9.69	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	96.90%
Target Compounds						
9) Acetone	2.442	43	7000	2.18	ppb	# 77
19) 2-Butanone	3.908	43	3451	0.55	ppb	# 63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101017.d
 Acq On : 1 Nov 2021 4:00 pm
 Operator :
 Sample : 10-231-02g
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

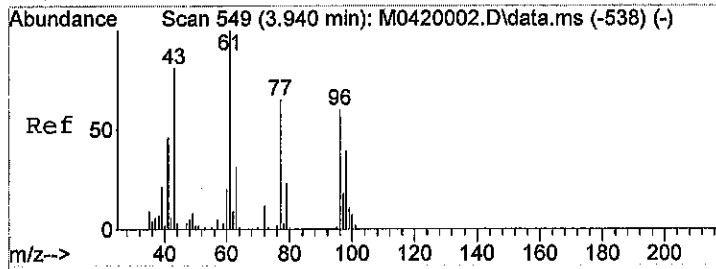
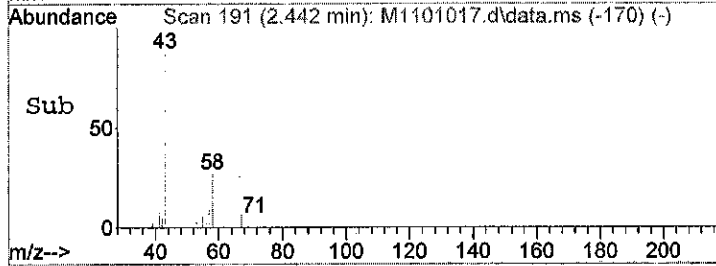
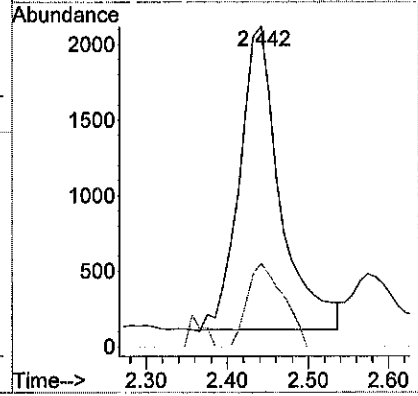
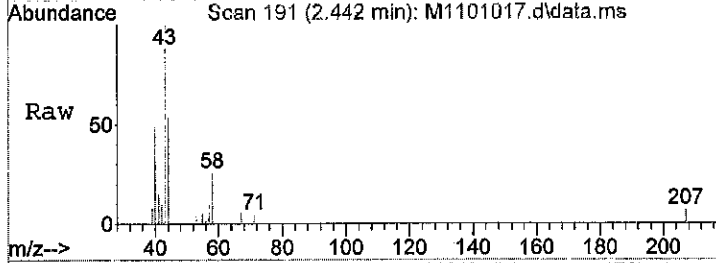
Quant Time: Nov 01 16:16:33 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration





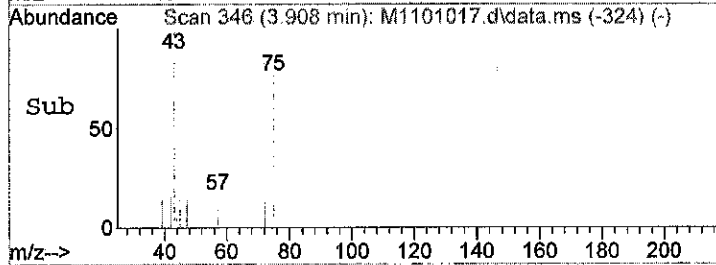
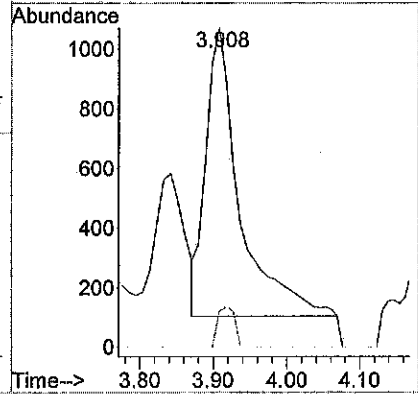
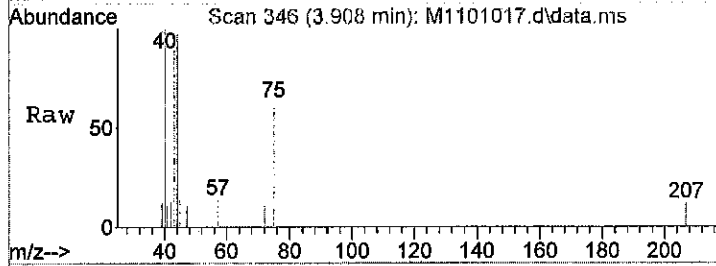
#9
 Acetone
 Concen: 2.18 ppb
 RT: 2.442 min Scan# 191
 Delta R.T. -0.000 min
 Lab File: M1101017.d
 Acq: 1 Nov 2021 4:00 pm

Tgt Ion: 43 Resp: 7000
 Ion Ratio Lower Upper
 43 100
 58 24.4 30.9 46.3#



#19
 2-Butanone
 Concen: 0.55 ppb
 RT: 3.908 min Scan# 346
 Delta R.T. 0.009 min
 Lab File: M1101017.d
 Acq: 1 Nov 2021 4:00 pm

Tgt Ion: 43 Resp: 3451
 Ion Ratio Lower Upper
 43 100
 72 6.3 20.1 30.1#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101017.d
 Acq On : 1 Nov 2021 4:00 pm
 Operator :
 Sample : 10-231-02g
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 01 16:16:47 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

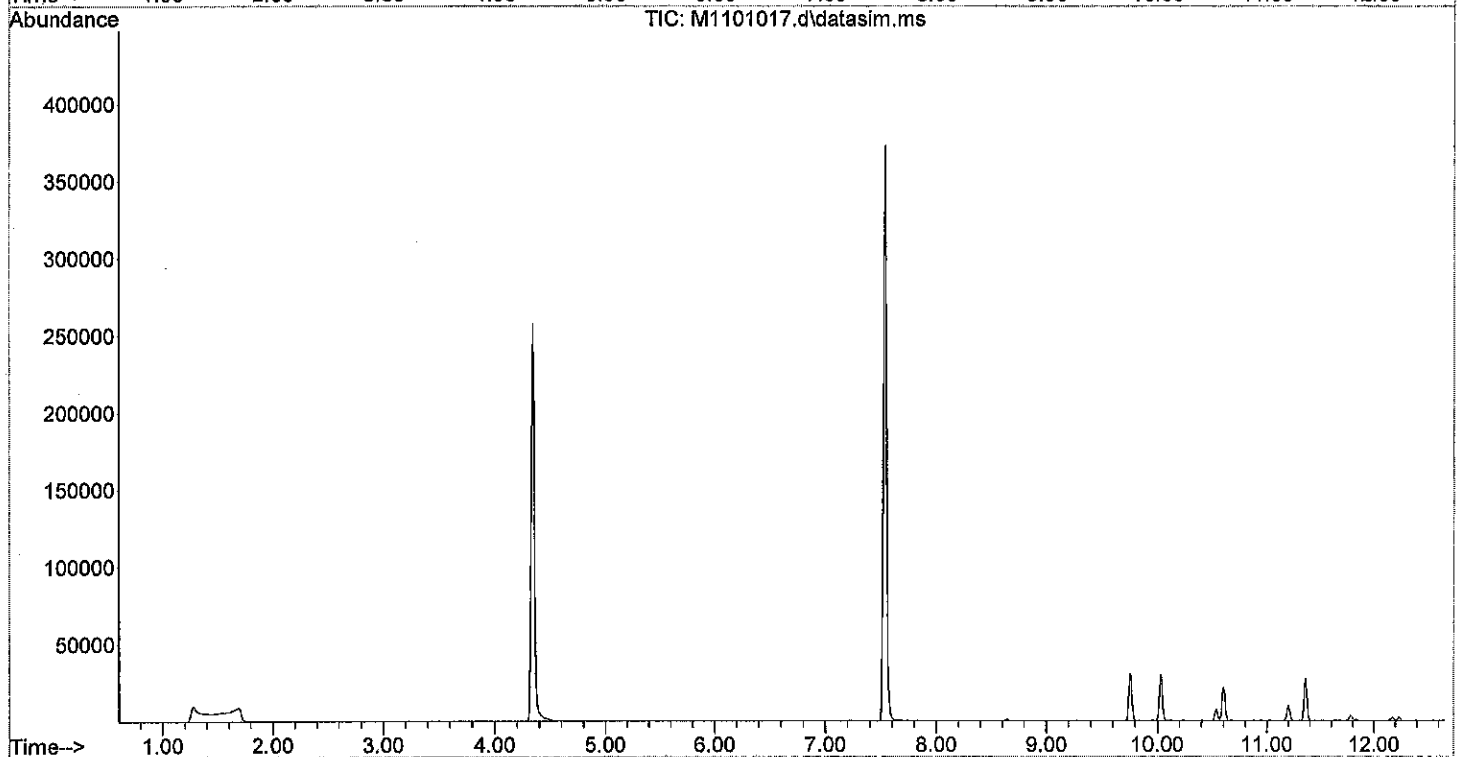
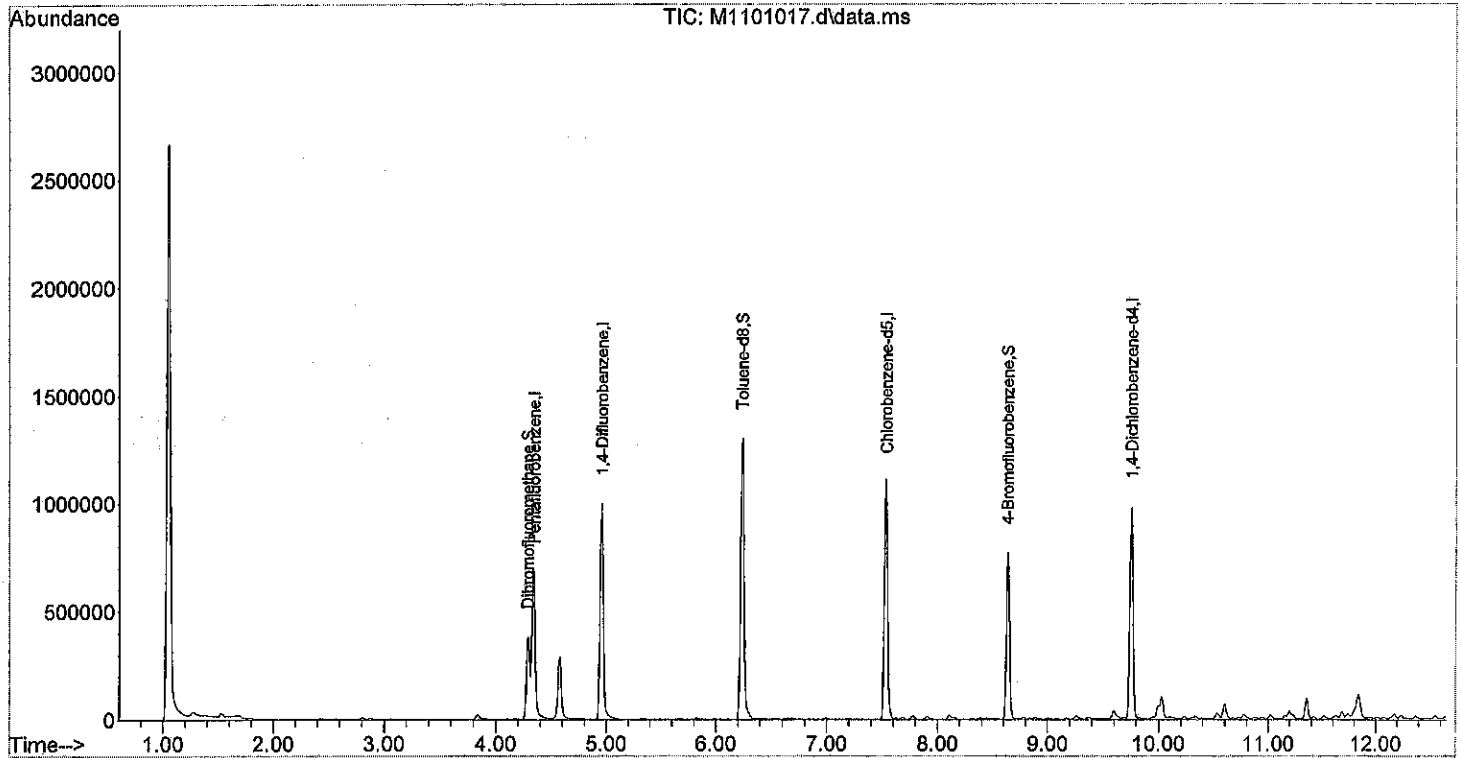
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	511115	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	863458	10.00	ppb	0.00
6) Chlorobenzene-d5	7.537	117	730152	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.757	152	313513	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	252006	10.45	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	104.50%	
5) Toluene-d8	6.236	98	962972	9.93	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.30%	
7) 4-Bromofluorobenzene	8.636	95	312028	10.04	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	100.40%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101017.d
 Acq On : 1 Nov 2021 4:00 pm
 Operator :
 Sample : 10-231-02g
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 01 16:16:47 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101022.d
 Acq On : 1 Nov 2021 6:15 pm
 Operator :
 Sample : 10-231-03g
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

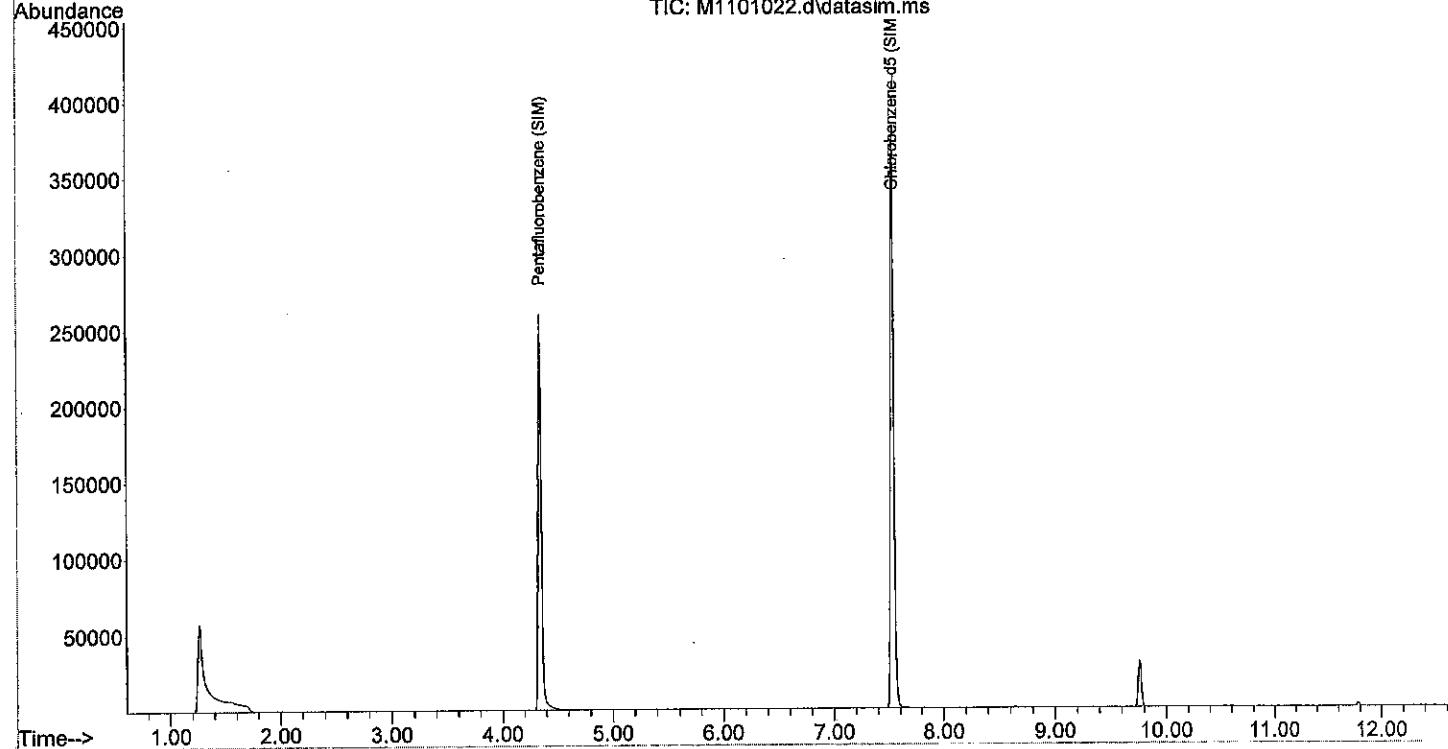
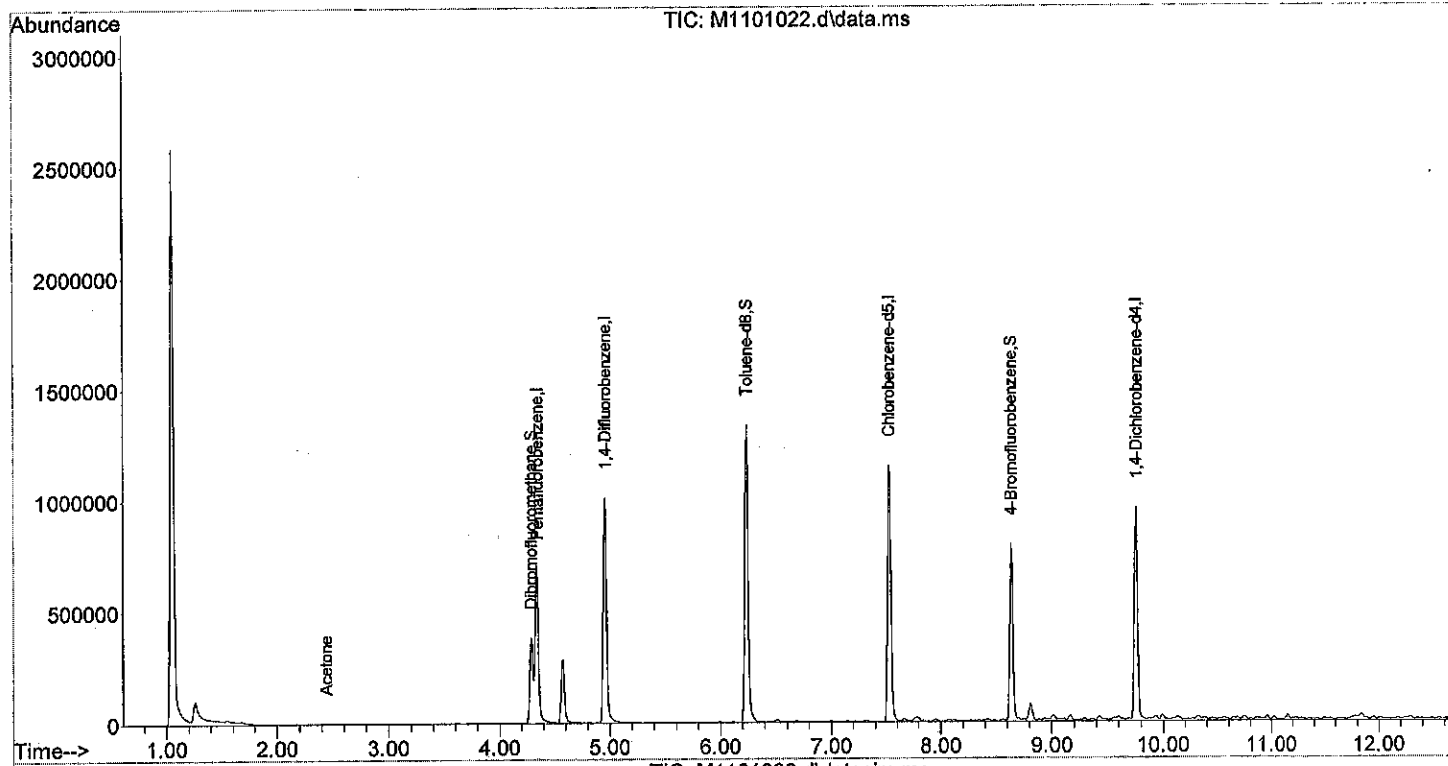
Quant Time: Nov 02 10:05:53 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

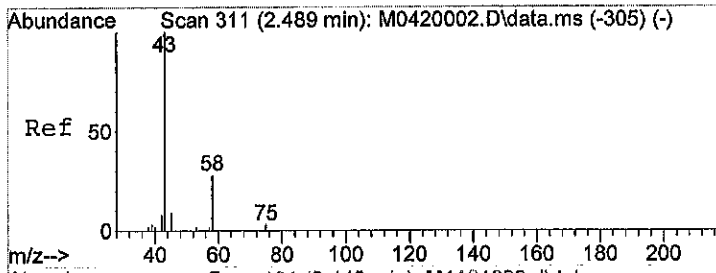
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	515194	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	532317	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	878978	10.00	ppb	0.00
41) Chlorobenzene-d5	7.530	117	738446	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	747142	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	307760	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	254176	10.09	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	100.90%	
39) Toluene-d8	6.237	98	993336	9.99	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.90%	
57) 4-Bromofluorobenzene	8.636	95	319249	9.80	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	98.00%	
Target Compounds						
9) Acetone	2.442	43	3766	1.16	ppb	Qvalue # 73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101022.d
 Acq On : 1 Nov 2021 6:15 pm
 Operator :
 Sample : 10-231-03g
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

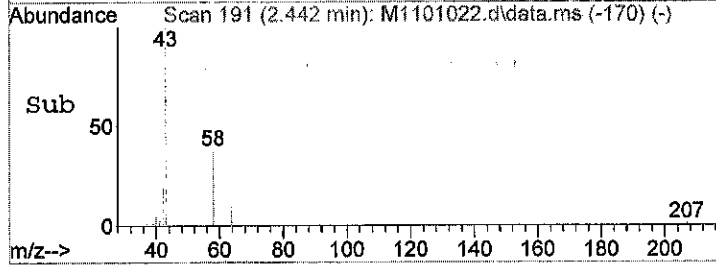
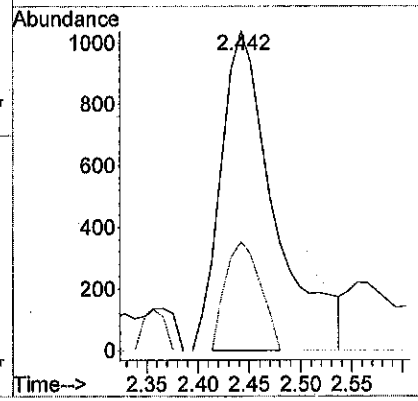
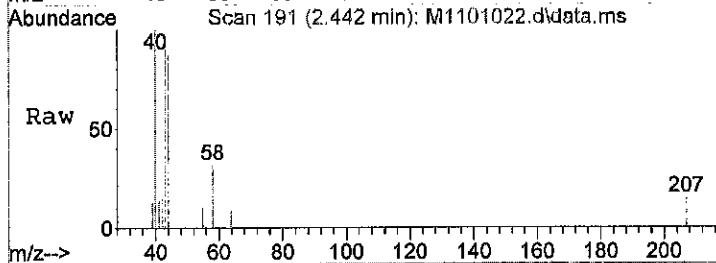
Quant Time: Nov 02 10:05:53 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration





#9
 Acetone
 Concen: 1.16 ppb
 RT: 2.442 min Scan# 191
 Delta R.T. 0.000 min
 Lab File: M1101022.d
 Acq: 1 Nov 2021 6:15 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	22.3	30.9	46.3#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101022.d
 Acq On : 1 Nov 2021 6:15 pm
 Operator :
 Sample : 10-231-03g
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 02 09:56:29 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

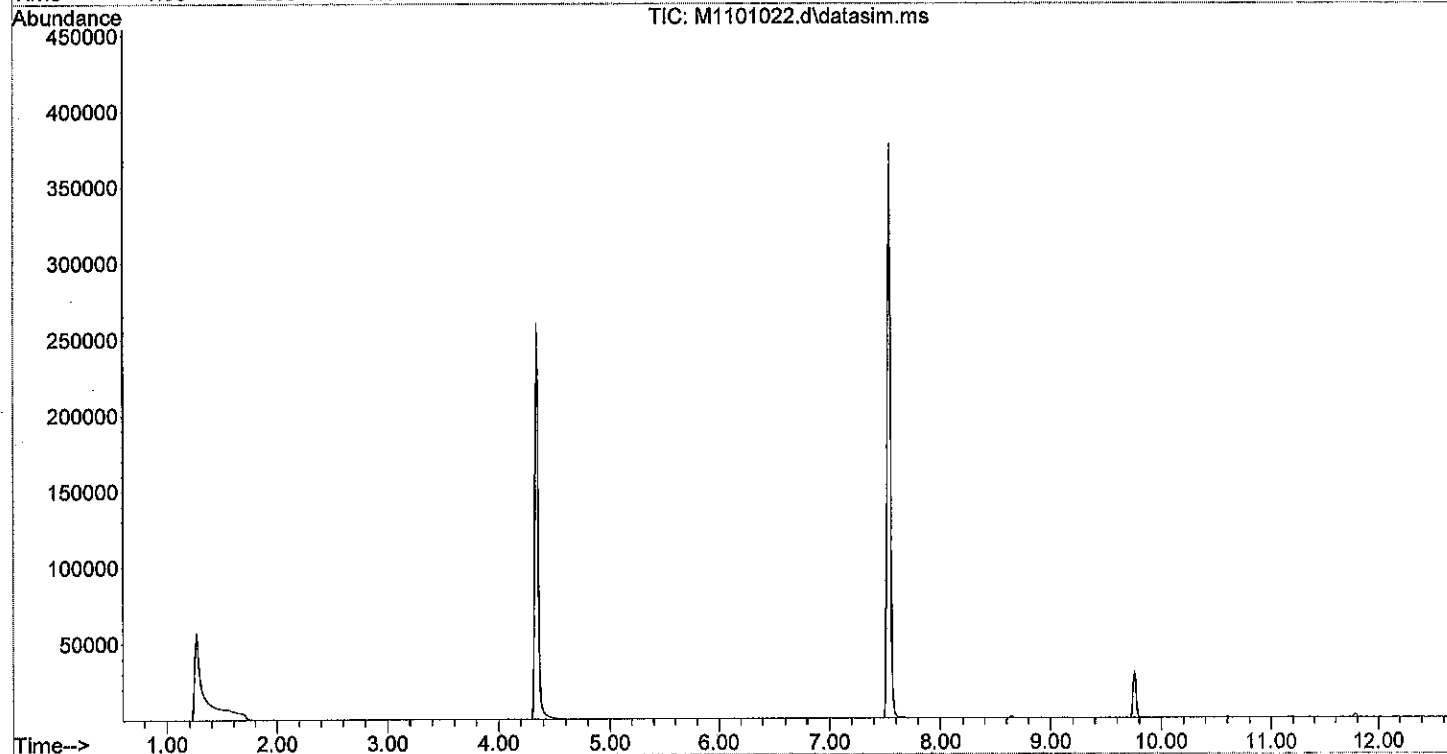
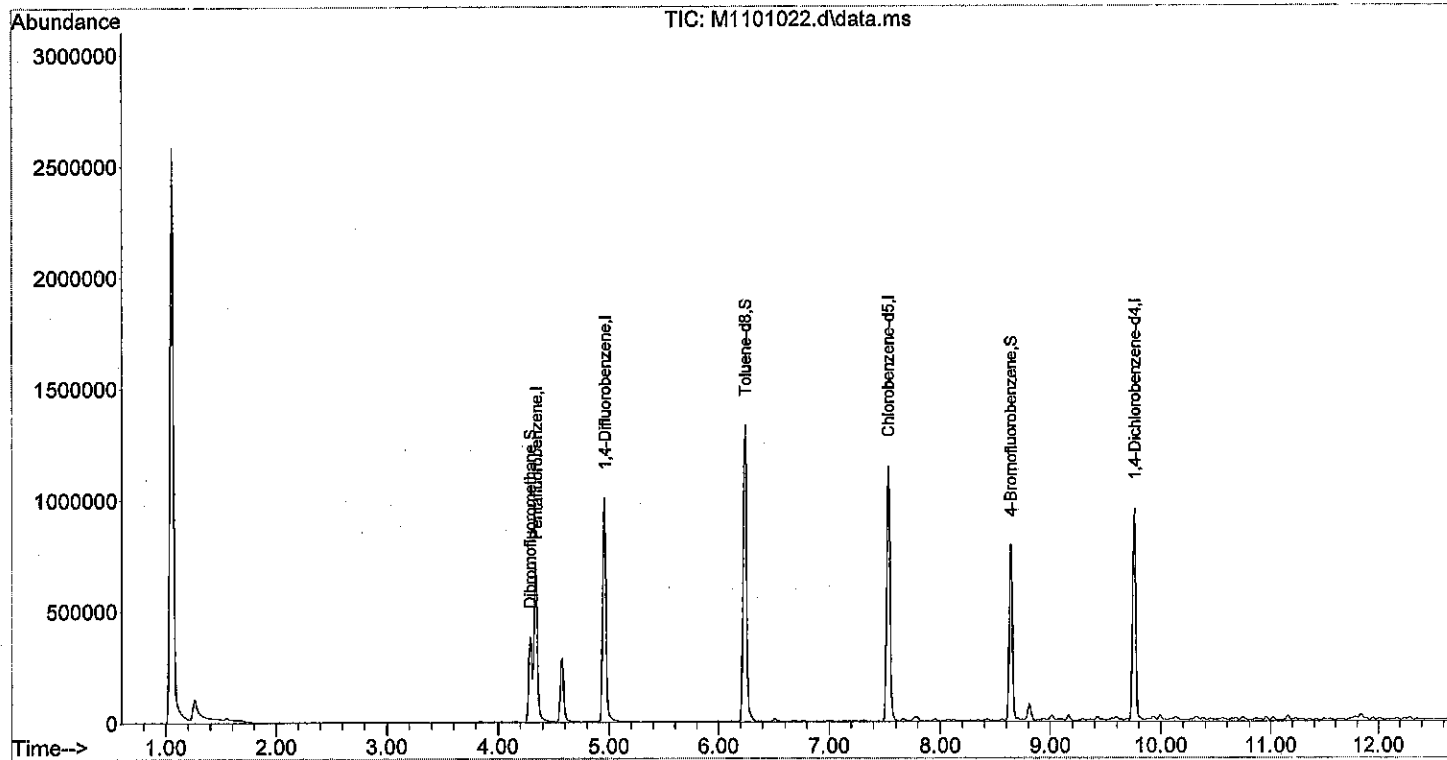
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	515194	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	878978	10.00	ppb	0.00
6) Chlorobenzene-d5	7.530	117	738446	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	307760	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	254176	10.45	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	104.50%	
5) Toluene-d8	6.237	98	993336	10.07	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	100.70%	
7) 4-Bromofluorobenzene	8.636	95	319382	10.16	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	101.60%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101022.d
 Acq On : 1 Nov 2021 6:15 pm
 Operator :
 Sample : 10-231-03g
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 02 09:56:29 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101023.d
 Acq On : 1 Nov 2021 6:41 pm
 Operator :
 Sample : 10-231-04g
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 02 10:38:54 2021
 Quant Method : C:\msdchem\1\methods\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:13:26 2021
 Response via : Initial Calibration

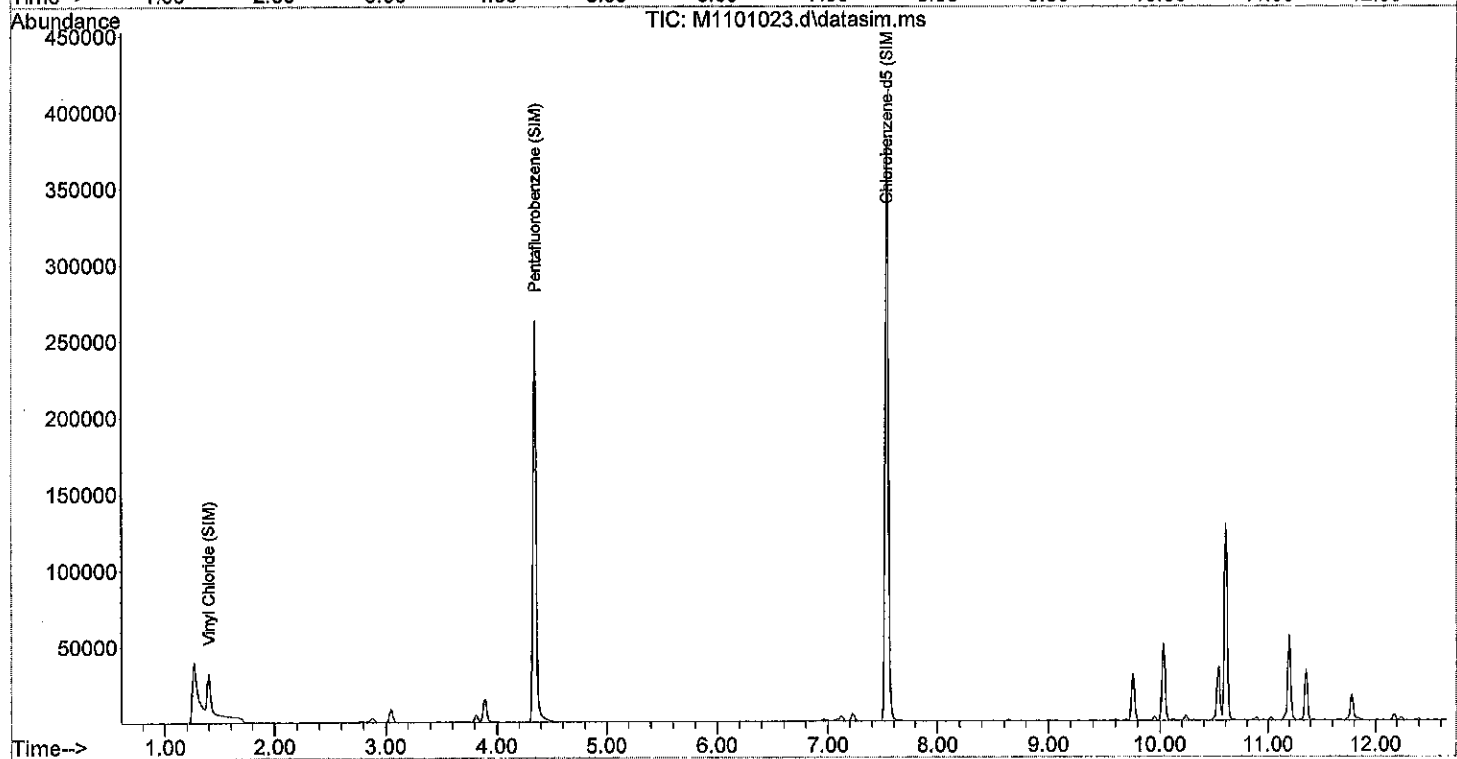
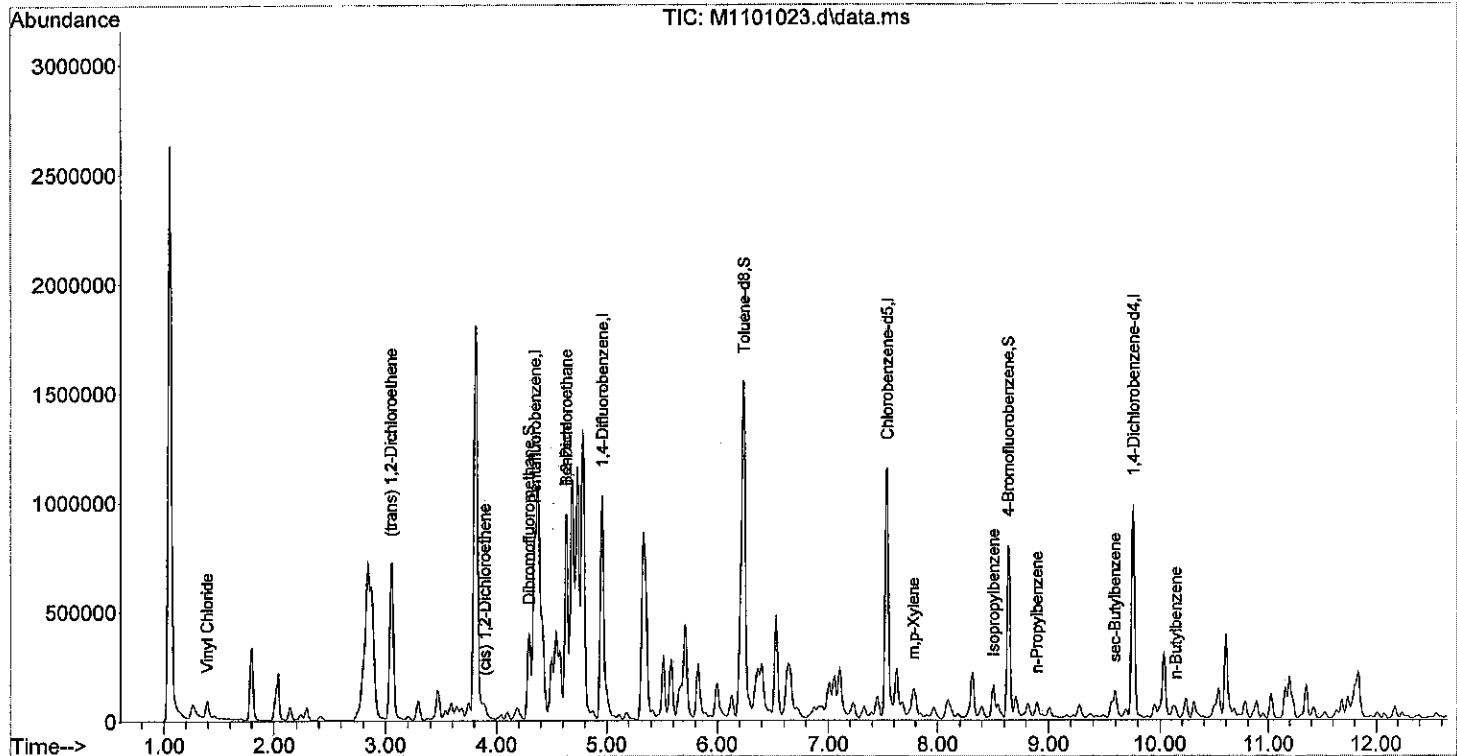
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

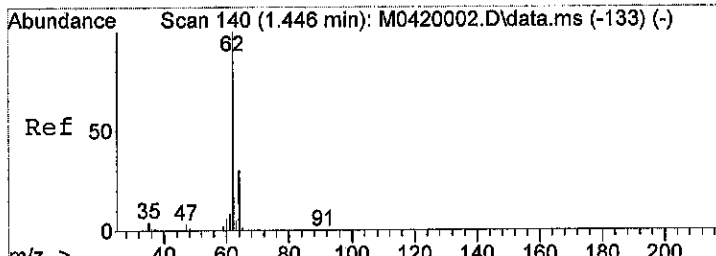
Internal Standards						
1) Pentafluorobenzene	4.342	168	518633	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	537152	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	883919	10.00	ppb	0.00
41) Chlorobenzene-d5	7.538	117	740798	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	748047	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	312168	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	260645	10.28	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	102.80%
39) Toluene-d8	6.237	98	1023964	10.24	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	102.40%
57) 4-Bromofluorobenzene	8.636	95	317858	9.73	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	97.30%
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.392	62	37710	1.42	ppb	# 1
13) (trans) 1,2-Dichloroet...	3.048	61	13951	0.32	ppb	# 86
18) (cis) 1,2-Dichloroethene	3.890	61	30804	0.56	ppb	92
26) Benzene	4.630	78	787505	7.45	ppb	99
27) 1,2-Dichloroethane	4.630	62	10379	0.34	ppb	97
29) Vinyl Chloride (SIM)	1.397	62	38869	1337.48	ppt	# 1
52) m,p-Xylene	7.779	91	31707	0.31	ppb	97
56) Isopropylbenzene	8.503	105	113914	0.97	ppb	99
64) n-Propylbenzene	8.893	91	57209	0.42	ppb	100
70) sec-Butylbenzene	9.594	105	70852	0.67	ppb	# 72
75) n-Butylbenzene	10.139	91	19743	0.25	ppb	# 37

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101023.d
 Acq On : 1 Nov 2021 6:41 pm
 Operator :
 Sample : 10-231-04g
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

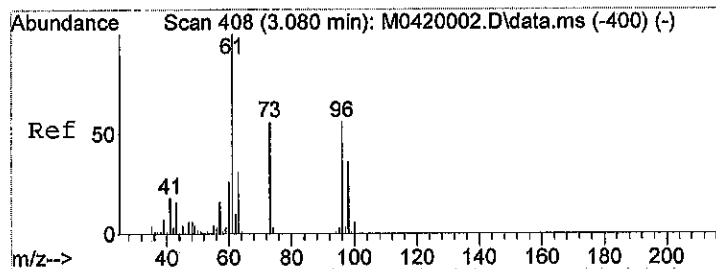
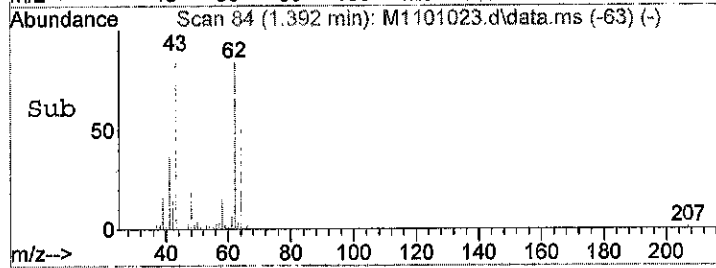
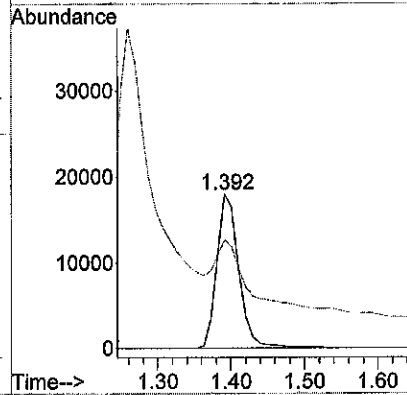
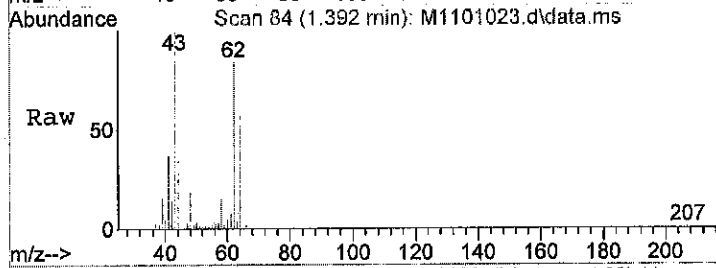
Quant Time: Nov 02 10:38:54 2021
 Quant Method : C:\msdchem\1\methods\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:13:26 2021
 Response via : Initial Calibration





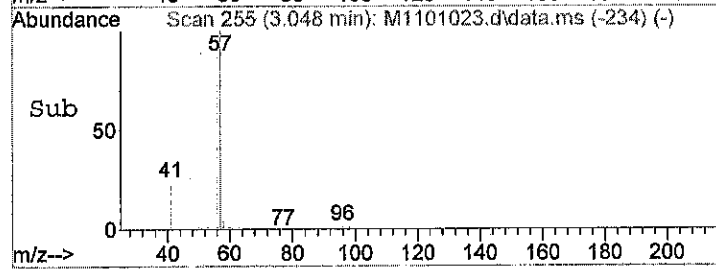
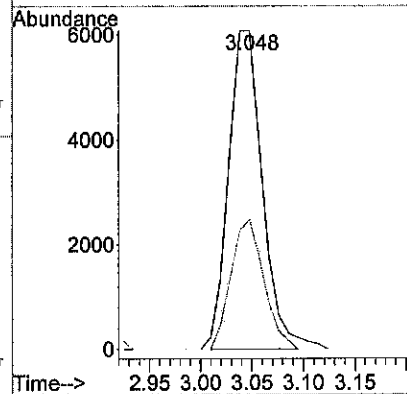
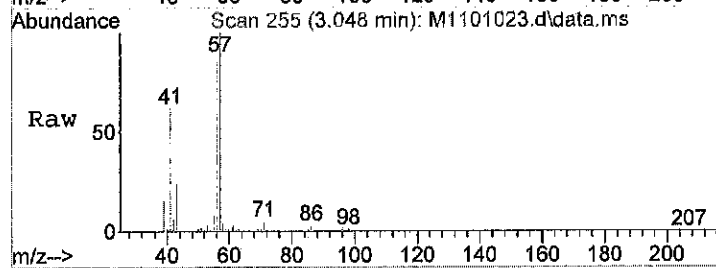
#4
 Vinyl Chloride
 Concen: 1.42 ppb
 RT: 1.392 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

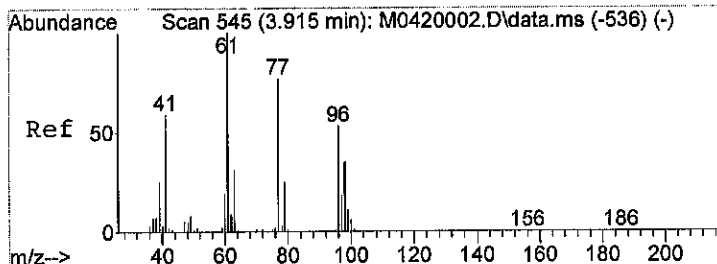
Tgt Ion: 62 Resp: 37710
 Ion Ratio Lower Upper
 62 100
 64 106.5 30.2 45.4#



#13
 (trans) 1,2-Dichloroethene
 Concen: 0.32 ppb
 RT: 3.048 min Scan# 255
 Delta R.T. -0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

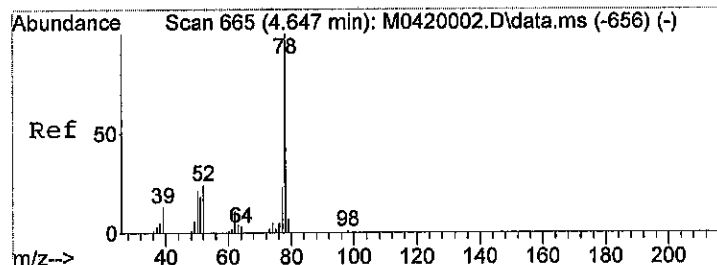
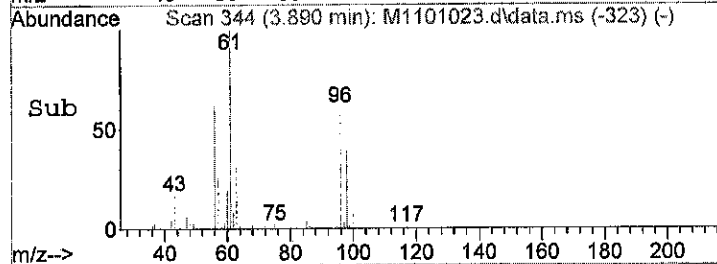
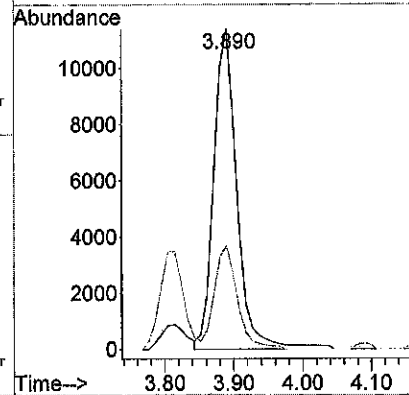
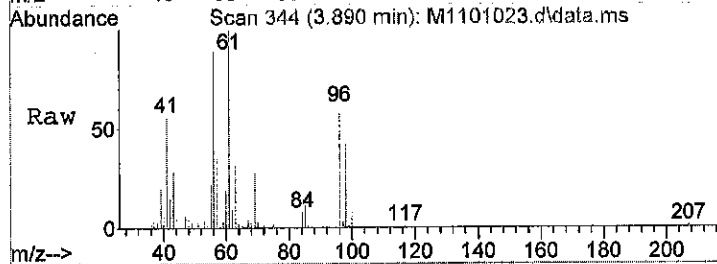
Tgt Ion: 61 Resp: 13951
 Ion Ratio Lower Upper
 61 100
 63 39.5 25.2 37.8#





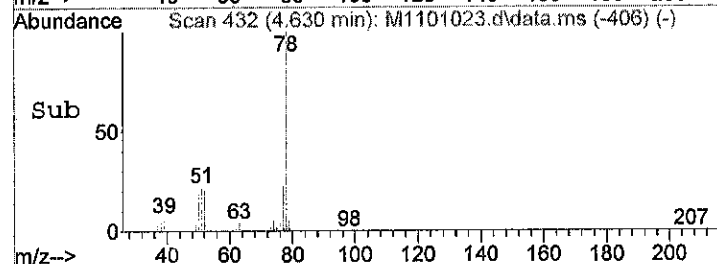
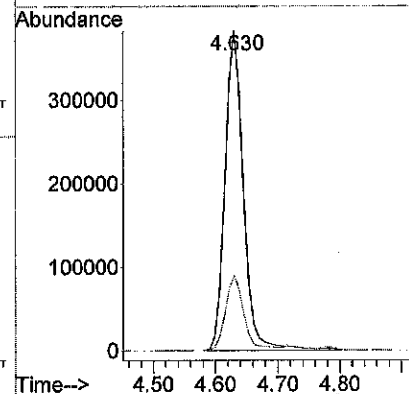
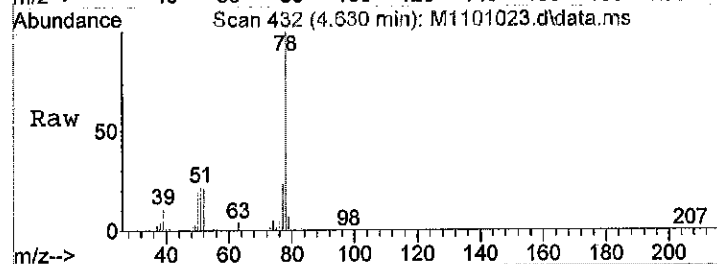
#18
 (cis) 1,2-Dichloroethene
 Concen: 0.56 ppb
 RT: 3.890 min Scan# 344
 Delta R.T. -0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

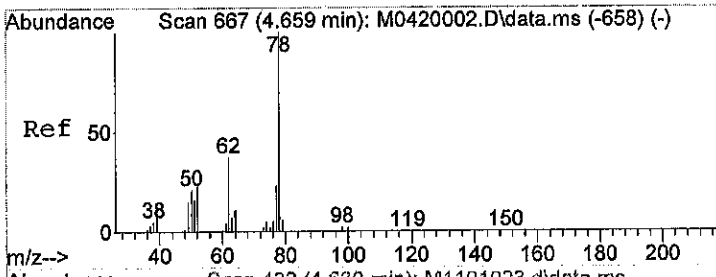
Tgt Ion: 61 Resp: 30804
 Ion Ratio Lower Upper
 61 100
 63 27.7 25.5 38.3



#26
 Benzene
 Concen: 7.45 ppb
 RT: 4.630 min Scan# 432
 Delta R.T. 0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

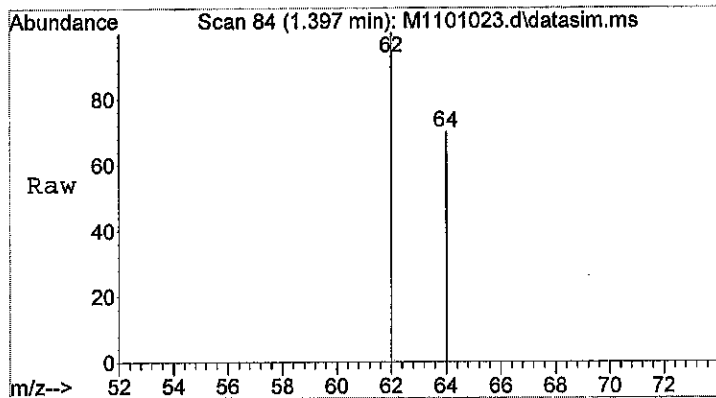
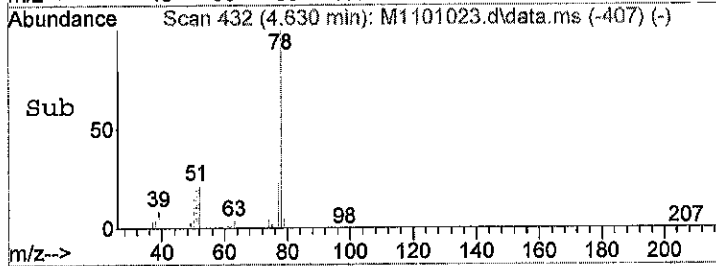
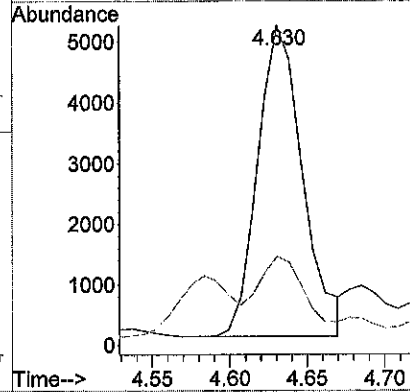
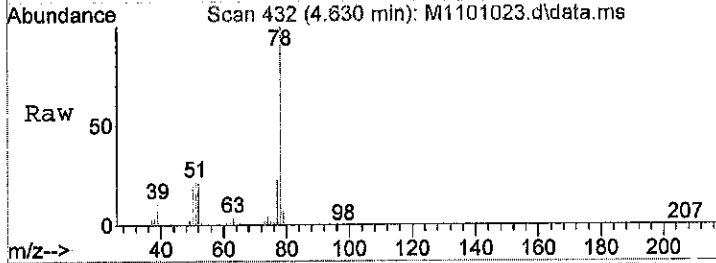
Tgt Ion: 78 Resp: 787505
 Ion Ratio Lower Upper
 78 100
 77 23.7 18.5 27.7





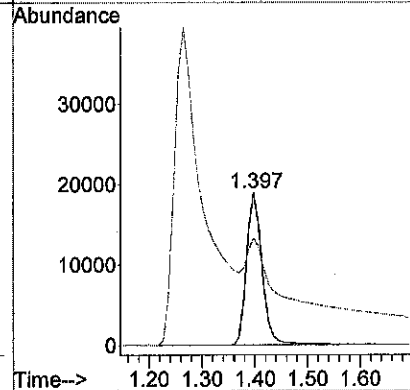
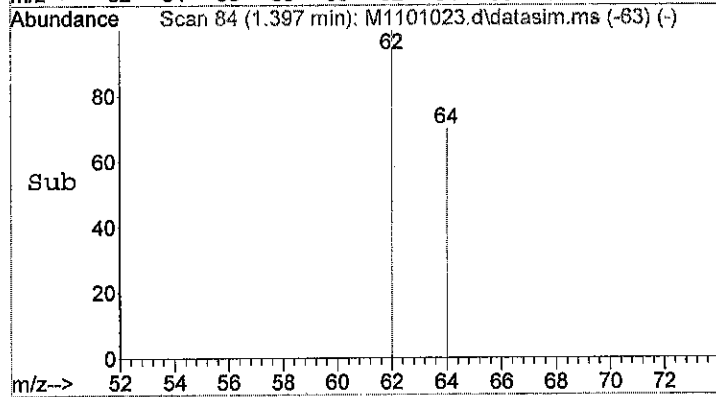
#27
 1,2-Dichloroethane
 Concen: 0.34 ppb
 RT: 4.630 min Scan# 432
 Delta R.T. -0.008 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

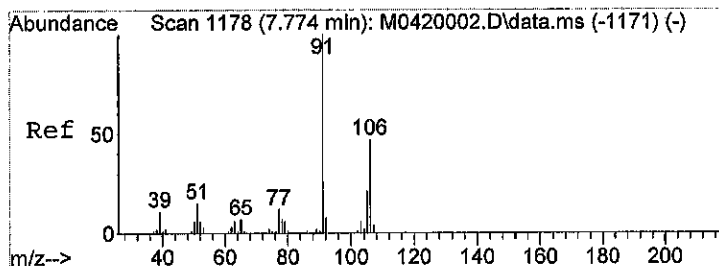
Tgt Ion: 62 Resp: 10379
 Ion Ratio Lower Upper
 62 100
 64 30.4 25.6 38.4



#29
 Vinyl Chloride (SIM)
 Concen: 1337.48 ppt
 RT: 1.397 min Scan# 84
 Delta R.T. 0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

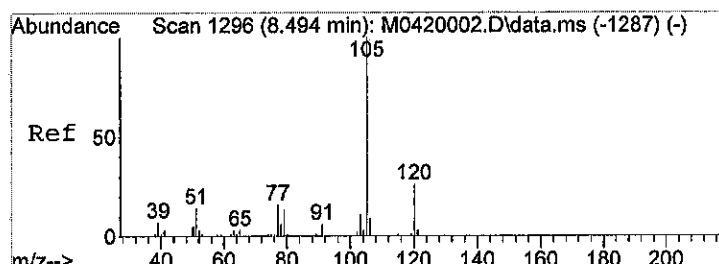
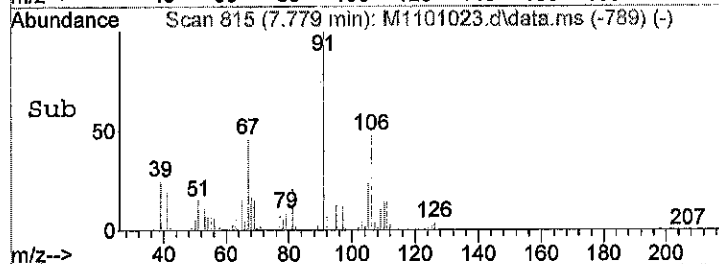
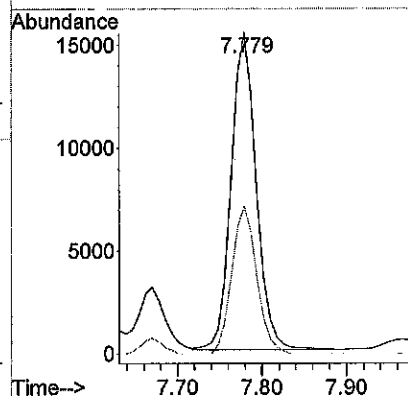
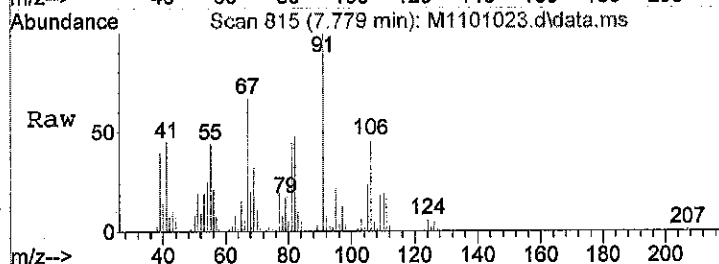
Tgt Ion: 62 Resp: 38869
 Ion Ratio Lower Upper
 62 100
 64 106.8 28.8 43.2#





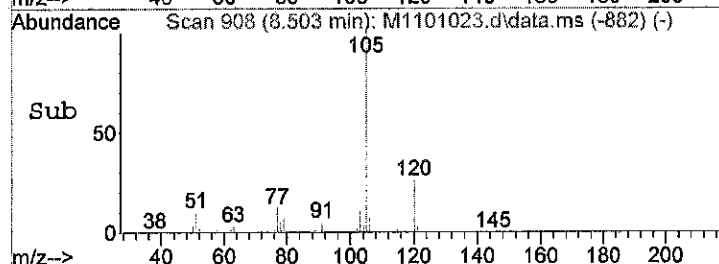
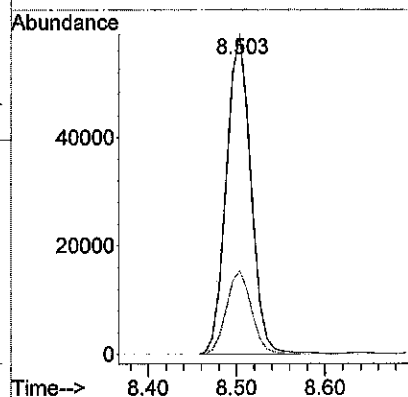
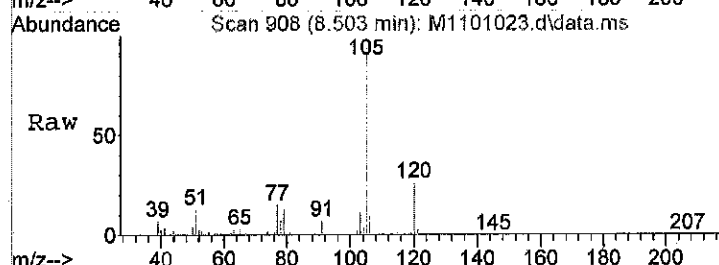
#52
 m,p-Xylene
 Concen: 0.31 ppb
 RT: 7.779 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

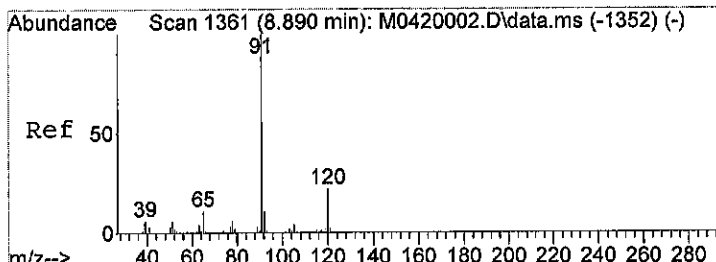
Tgt Ion: 91 Resp: 31707
 Ion Ratio Lower Upper
 91 100
 106 46.4 38.8 58.2



#56
 Isopropylbenzene
 Concen: 0.97 ppb
 RT: 8.503 min Scan# 908
 Delta R.T. 0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

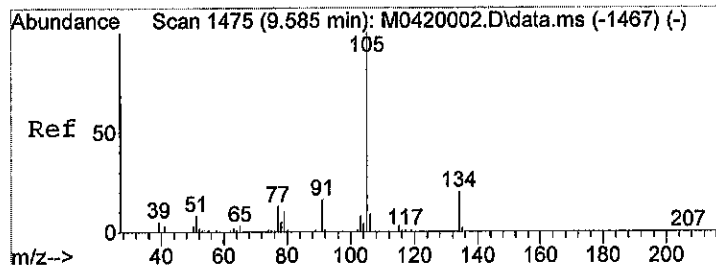
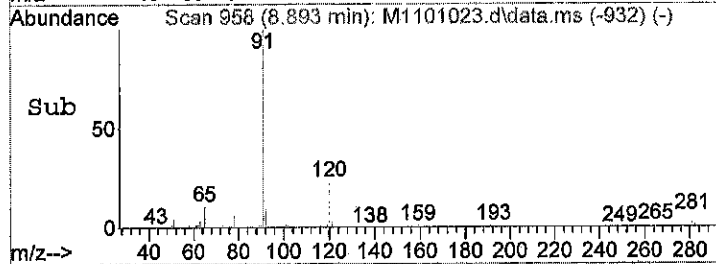
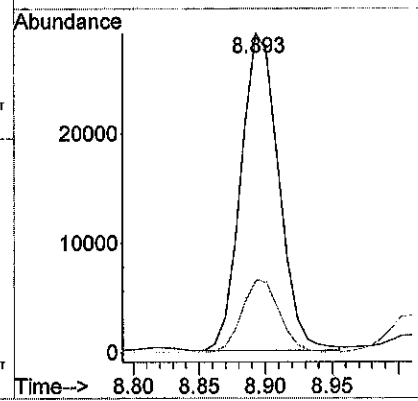
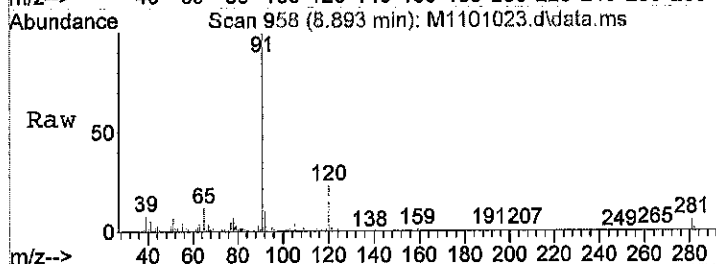
Tgt Ion: 105 Resp: 113914
 Ion Ratio Lower Upper
 105 100
 120 26.7 20.8 31.2





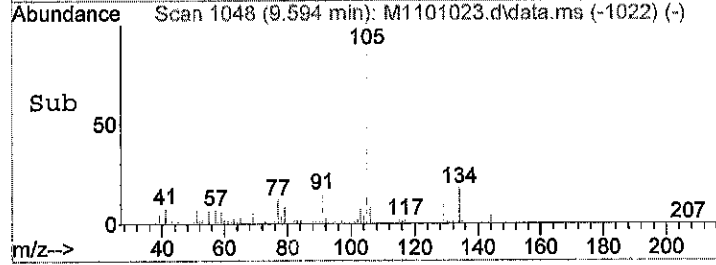
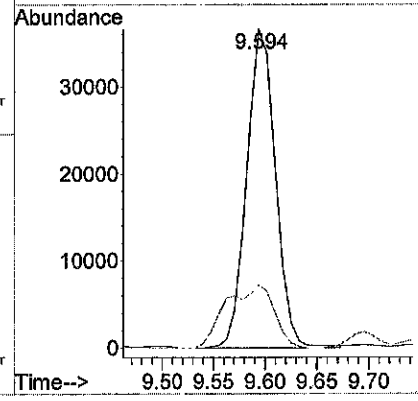
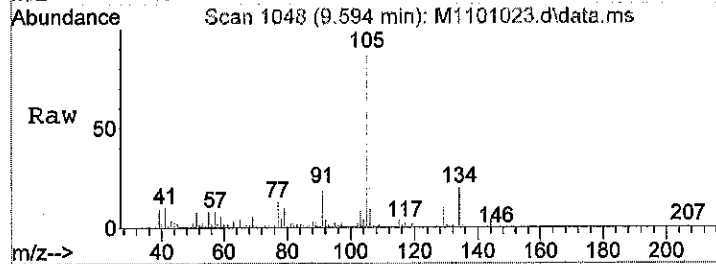
#64
 n-Propylbenzene
 Concen: 0.42 ppb
 RT: 8.893 min Scan# 958
 Delta R.T. -0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

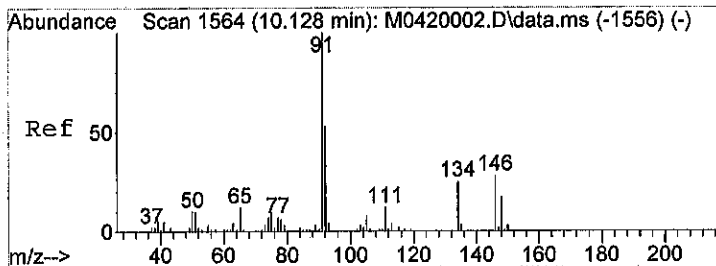
Tgt Ion	Resp	Lower	Upper
91	100		
120	22.8	18.2	27.4



#70
 sec-Butylbenzene
 Concen: 0.67 ppb
 RT: 9.594 min Scan# 1048
 Delta R.T. 0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

Tgt Ion	Resp	Lower	Upper
105	100		
134	33.0	16.1	24.1#

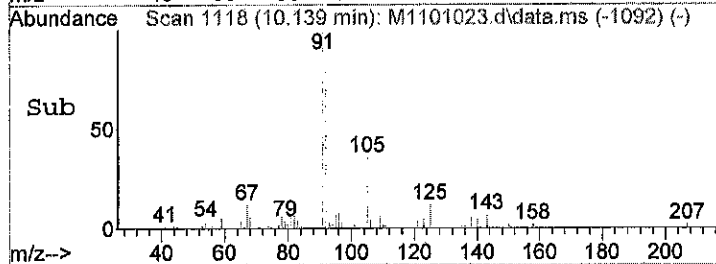
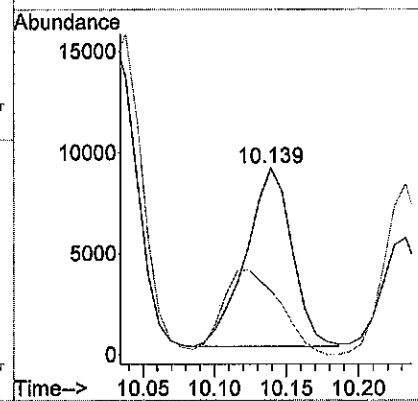
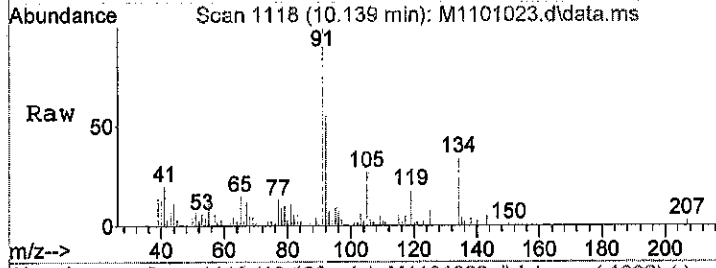




#75
 n-Butylbenzene
 Concen: 0.25 ppb
 RT: 10.139 min Scan# 1118
 Delta R.T. 0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

Tgt Ion: 91 Resp: 19743

Ion	Ratio	Lower	Upper
91	100		
134	59.0	21.2	31.8#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101023.d
 Acq On : 1 Nov 2021 6:41 pm
 Operator :
 Sample : 10-231-04g
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

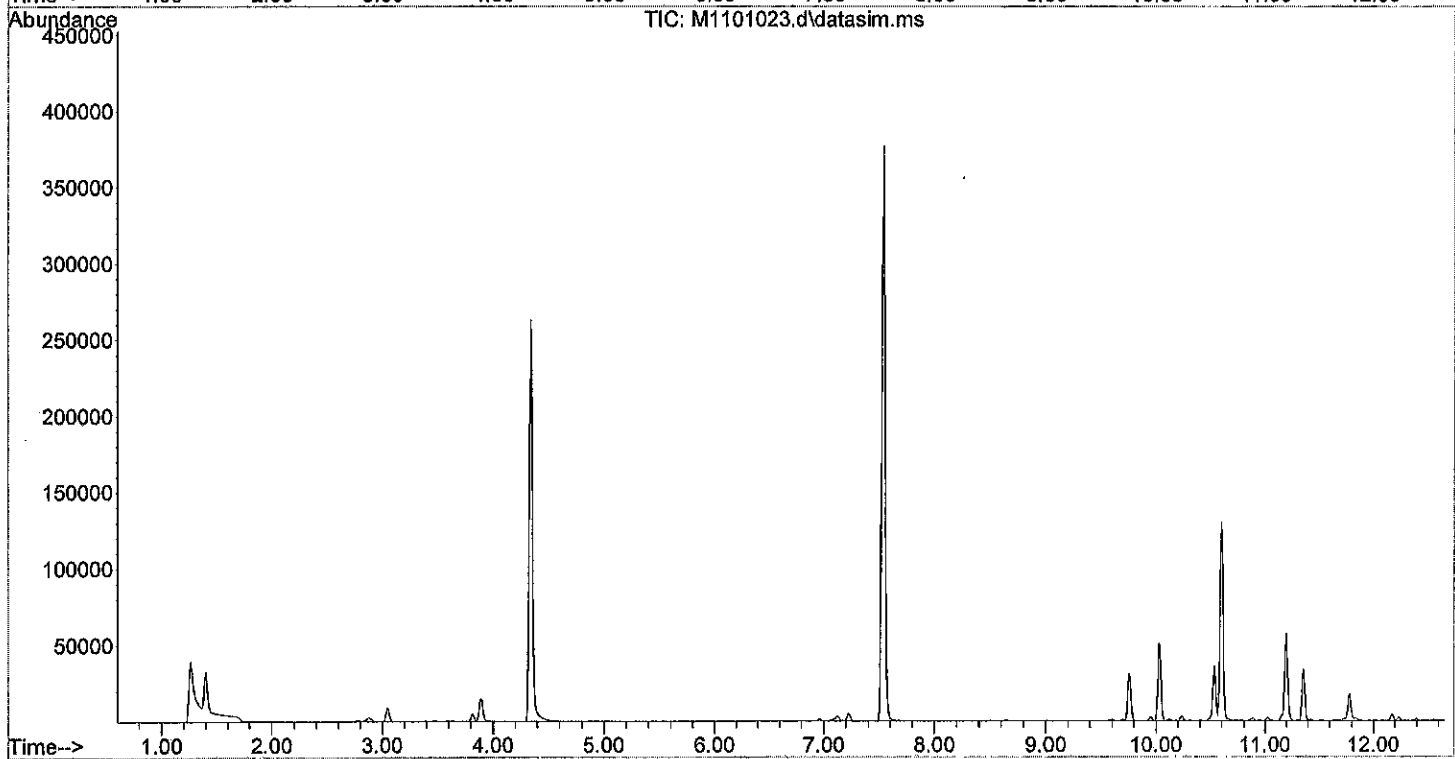
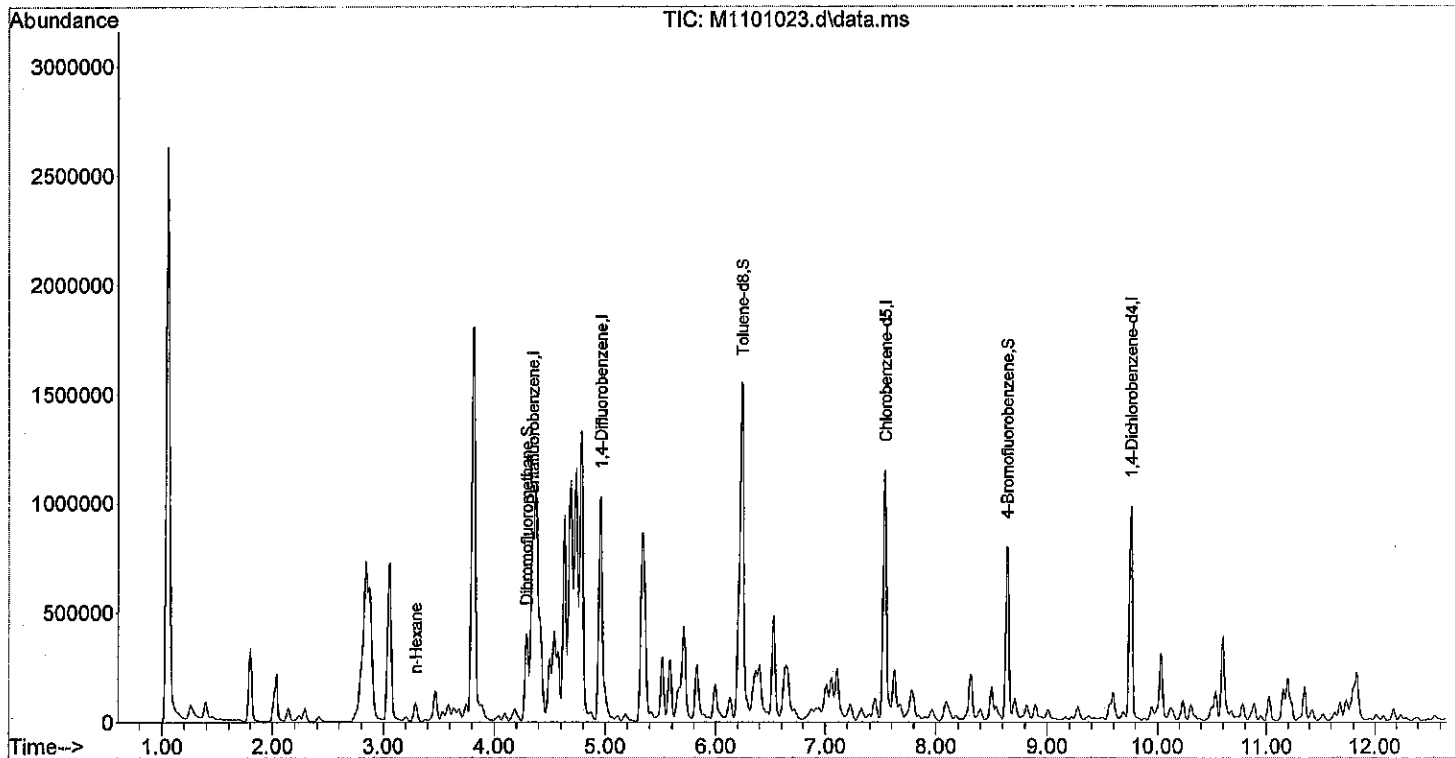
Quant Time: Nov 02 09:56:48 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

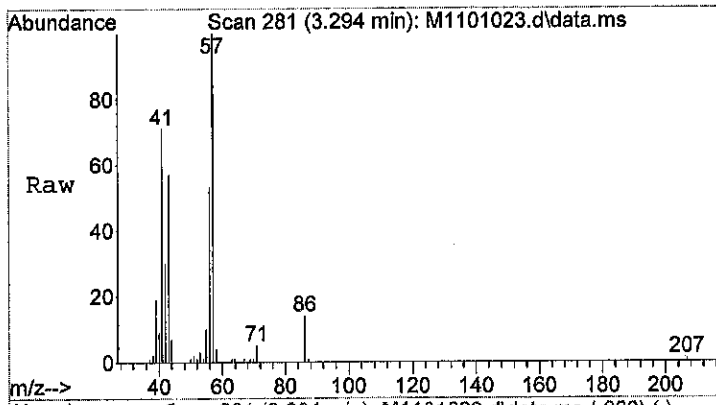
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	518633	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	883919	10.00	ppb	0.00
6) Chlorobenzene-d5	7.538	117	740683	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	312168	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	260645	10.65	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	106.50%	
5) Toluene-d8	6.237	98	1023964	10.32	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	103.20%	
7) 4-Bromofluorobenzene	8.636	95	317858	10.08	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	100.80%	
Target Compounds						
2) n-Hexane	3.294	57	51525	1.25	ppb	Qvalue 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101023.d
 Acq On : 1 Nov 2021 6:41 pm
 Operator :
 Sample : 10-231-04g
 Misc :
 ALS vial : 23 Sample Multiplier: 1

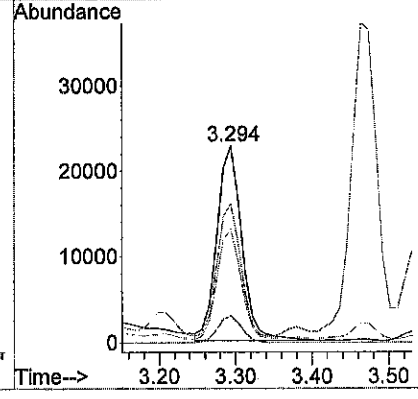
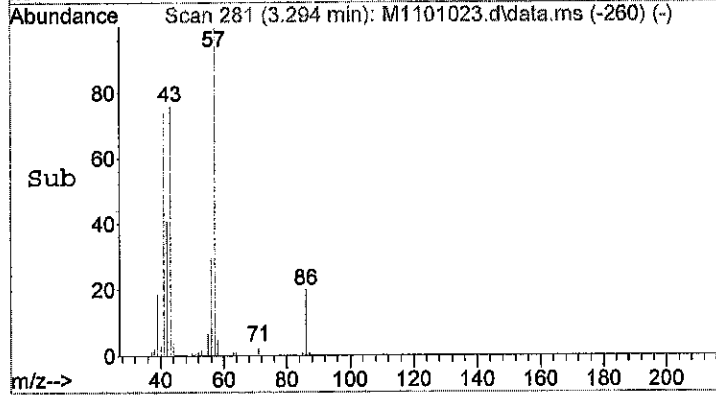
Quant Time: Nov 02 09:56:48 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration





#2
 n-Hexane
 Concen: 1.25 ppb
 RT: 3.294 min Scan# 281
 Delta R.T. -0.000 min
 Lab File: M1101023.d
 Acq: 1 Nov 2021 6:41 pm

Tgt Ion	Ratio	Lower	Upper
57	100		
41	63.3	55.8	83.8
43	53.8	49.7	74.5
86	13.2	10.8	16.2



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101024.d
 Acq On : 1 Nov 2021 7:08 pm
 Operator :
 Sample : 10-231-05g
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

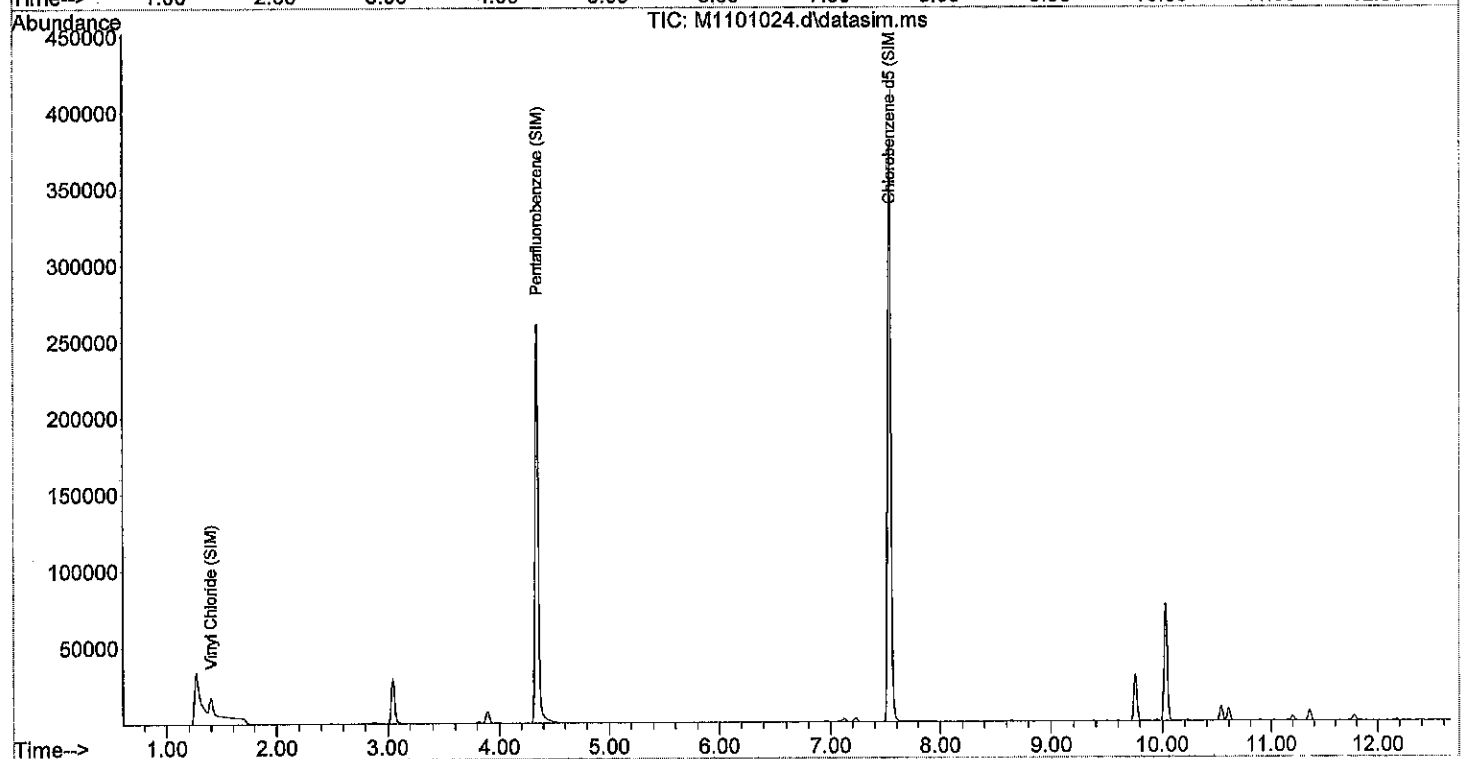
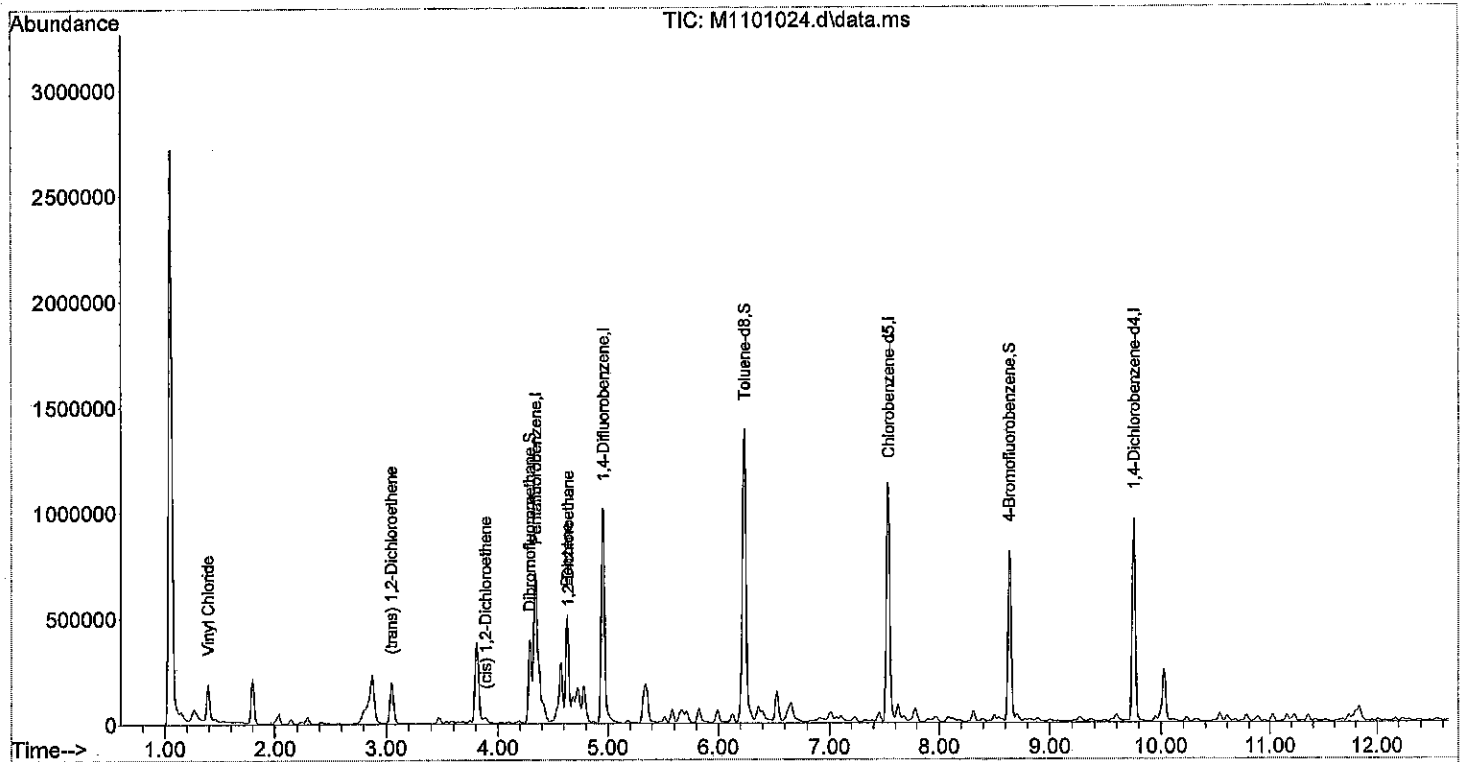
Quant Time: Nov 02 10:24:08 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

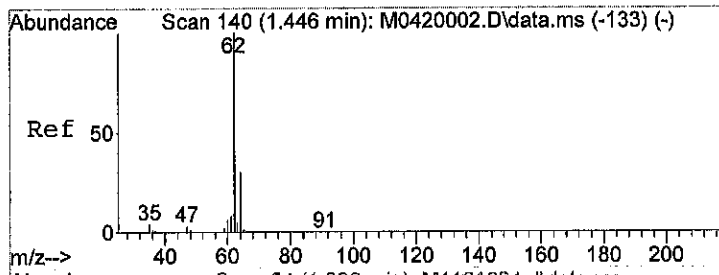
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	521328	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	534539	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	878808	10.00	ppb	0.00
41) Chlorobenzene-d5	7.538	117	733784	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	746120	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	309567	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	258106	10.13	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.30%
39) Toluene-d8	6.237	98	1007017	10.13	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	101.30%
57) 4-Bromofluorobenzene	8.636	95	321210	9.92	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	99.20%
Target Compounds						
4) Vinyl Chloride	1.392	62	16321	0.61	ppb	Qvalue # 37
13) (trans) 1,2-Dichloroet...	3.048	61	48723	1.09	ppb	100
18) (cis) 1,2-Dichloroethene	3.890	61	12544	0.23	ppb	98
26) Benzene	4.631	78	426143	4.01	ppb	100
27) 1,2-Dichloroethane	4.638	62	13342	0.44	ppb	93
29) Vinyl Chloride (SIM)	1.398	62	16331	564.70	ppt	# 39

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101024.d
 Acq On : 1 Nov 2021 7:08 pm
 Operator :
 Sample : 10-231-05g
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

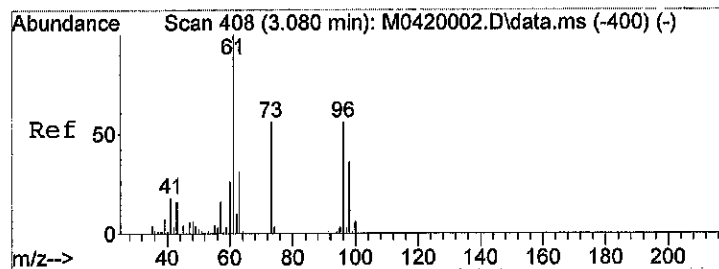
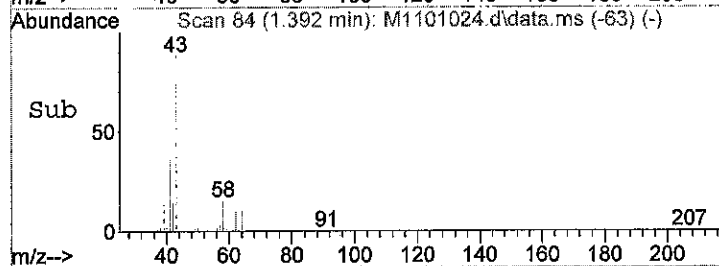
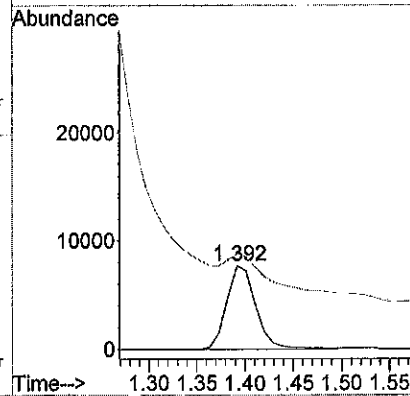
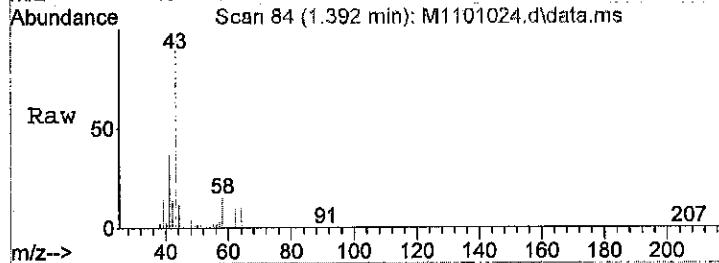
Quant Time: Nov 02 10:24:08 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration





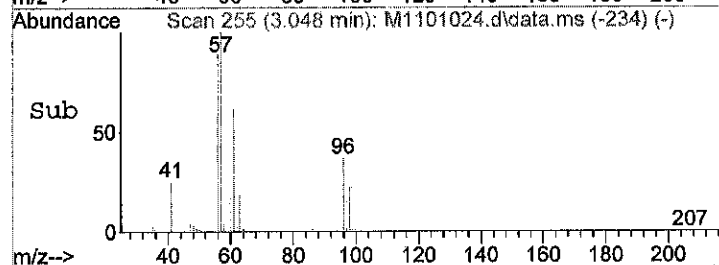
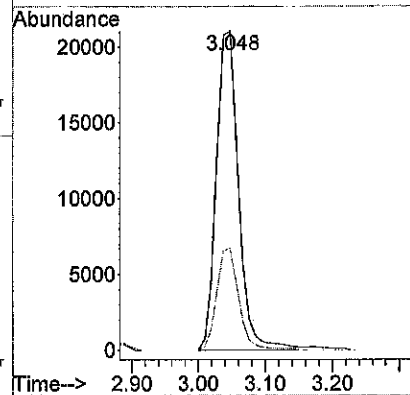
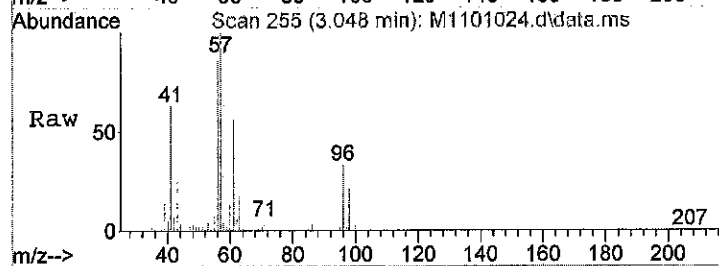
#4
 Vinyl Chloride
 Concen: 0.61 ppb
 RT: 1.392 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: M1101024.d
 Acq: 1 Nov 2021 7:08 pm

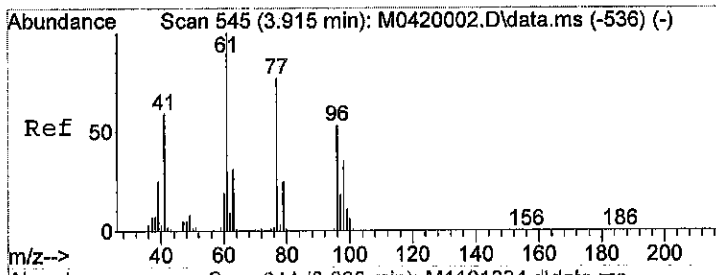
Tgt Ion:	Resp:	Lower	Upper
62	16321	100	
64	0.0	30.2	45.4#



#13
 (trans) 1,2-Dichloroethene
 Concen: 1.09 ppb
 RT: 3.048 min Scan# 255
 Delta R.T. -0.000 min
 Lab File: M1101024.d
 Acq: 1 Nov 2021 7:08 pm

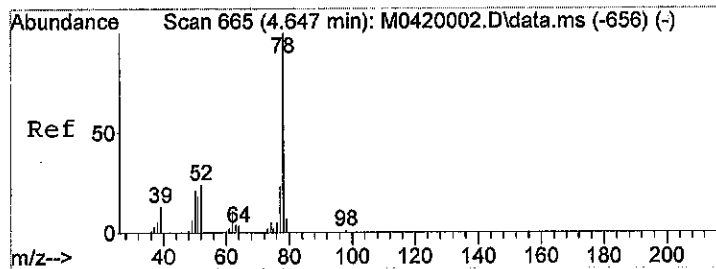
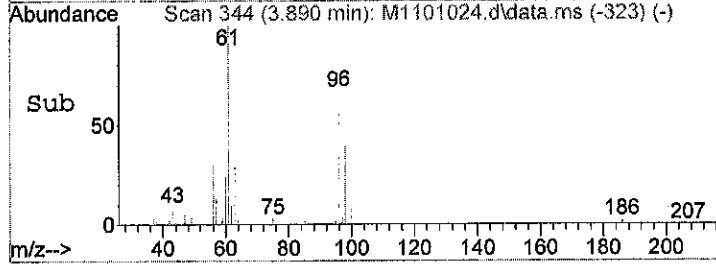
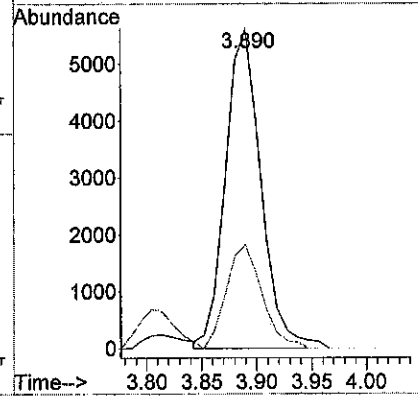
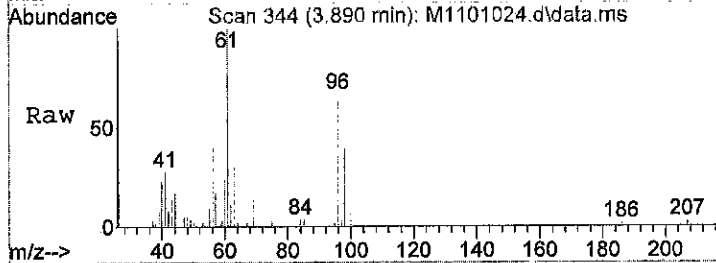
Tgt Ion:	Resp:	Lower	Upper
61	48723	100	
63	31.6	25.2	37.8





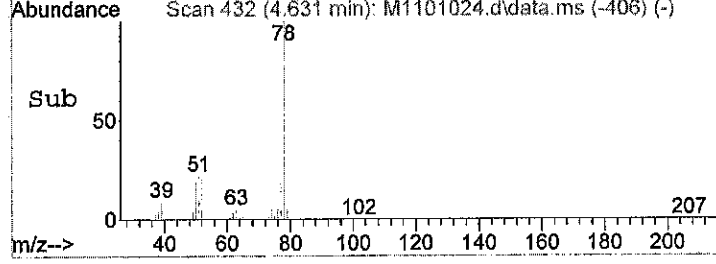
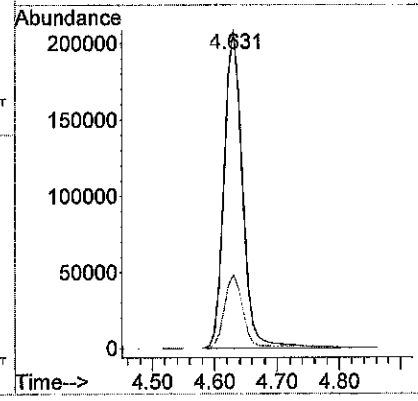
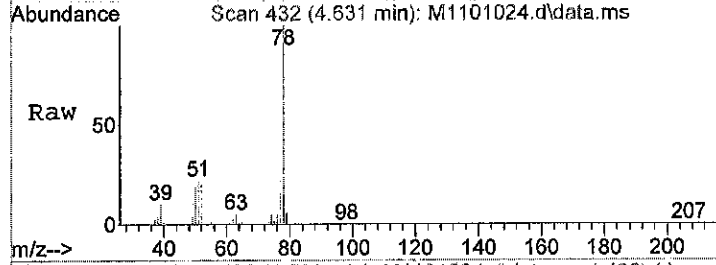
#18
 (cis) 1,2-Dichloroethene
 Concen: 0.23 ppb
 RT: 3.890 min Scan# 344
 Delta R.T. -0.000 min
 Lab File: M1101024.d
 Acq: 1 Nov 2021 7:08 pm

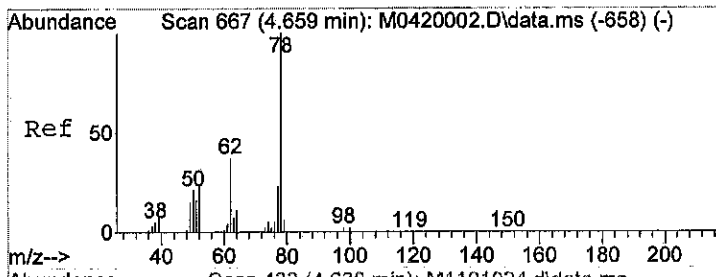
Tgt Ion:	61	Resp:	12544
Ion Ratio	Lower	Upper	
61	100		
63	32.9	25.5	38.3



#26
 Benzene
 Concen: 4.01 ppb
 RT: 4.631 min Scan# 432
 Delta R.T. 0.001 min
 Lab File: M1101024.d
 Acq: 1 Nov 2021 7:08 pm

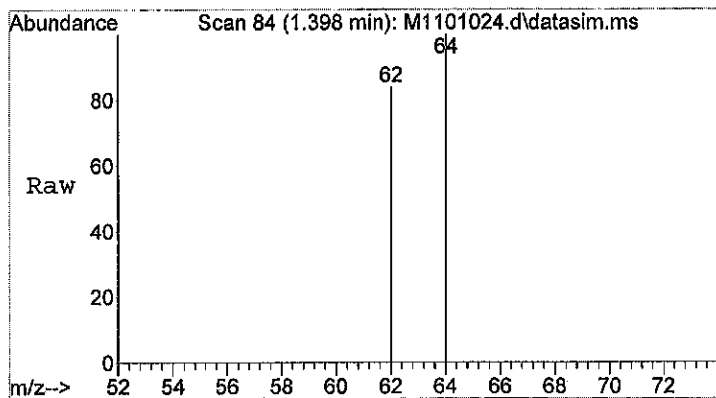
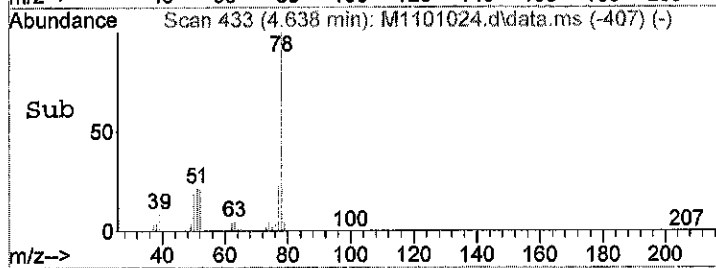
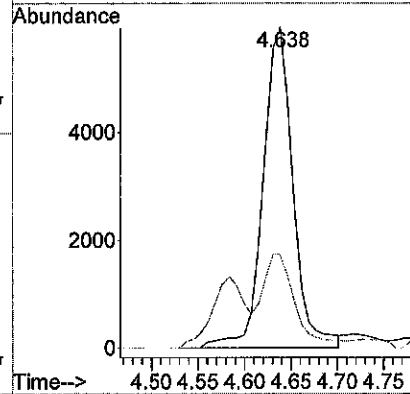
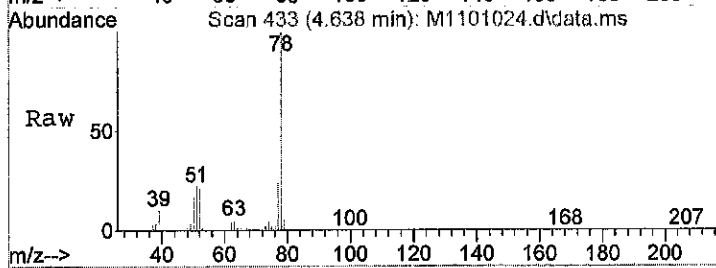
Tgt Ion:	78	Resp:	426143
Ion Ratio	Lower	Upper	
78	100		
77	23.1	18.5	27.7





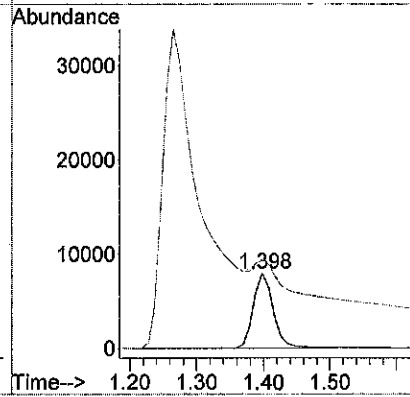
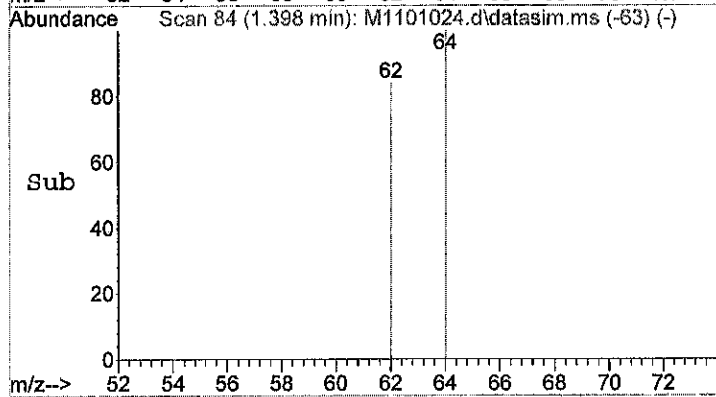
#27
 1,2-Dichloroethane
 Concen: 0.44 ppb
 RT: 4.638 min Scan# 433
 Delta R.T. 0.000 min
 Lab File: M1101024.d
 Acq: 1 Nov 2021 7:08 pm

Tgt Ion: 62 Resp: 13342
 Ion Ratio Lower Upper
 62 100
 64 28.0 25.6 38.4



#29
 Vinyl Chloride (SIM)
 Concen: 564.70 ppt
 RT: 1.398 min Scan# 84
 Delta R.T. 0.001 min
 Lab File: M1101024.d
 Acq: 1 Nov 2021 7:08 pm

Tgt Ion: 62 Resp: 16331
 Ion Ratio Lower Upper
 62 100
 64 0.0 28.8 43.2#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101024.d
 Acq On : 1 Nov 2021 7:08 pm
 Operator :
 Sample : 10-231-05g
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 02 09:57:20 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

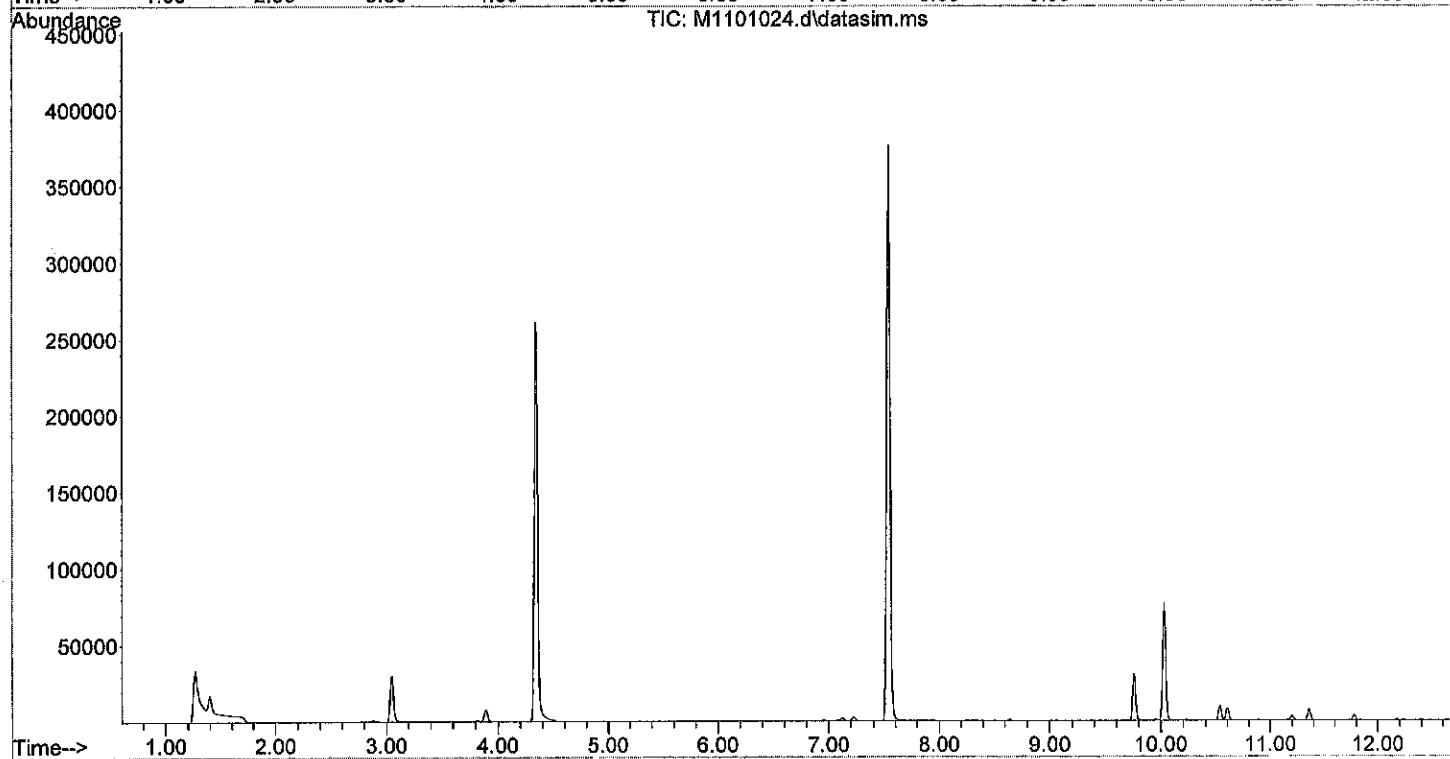
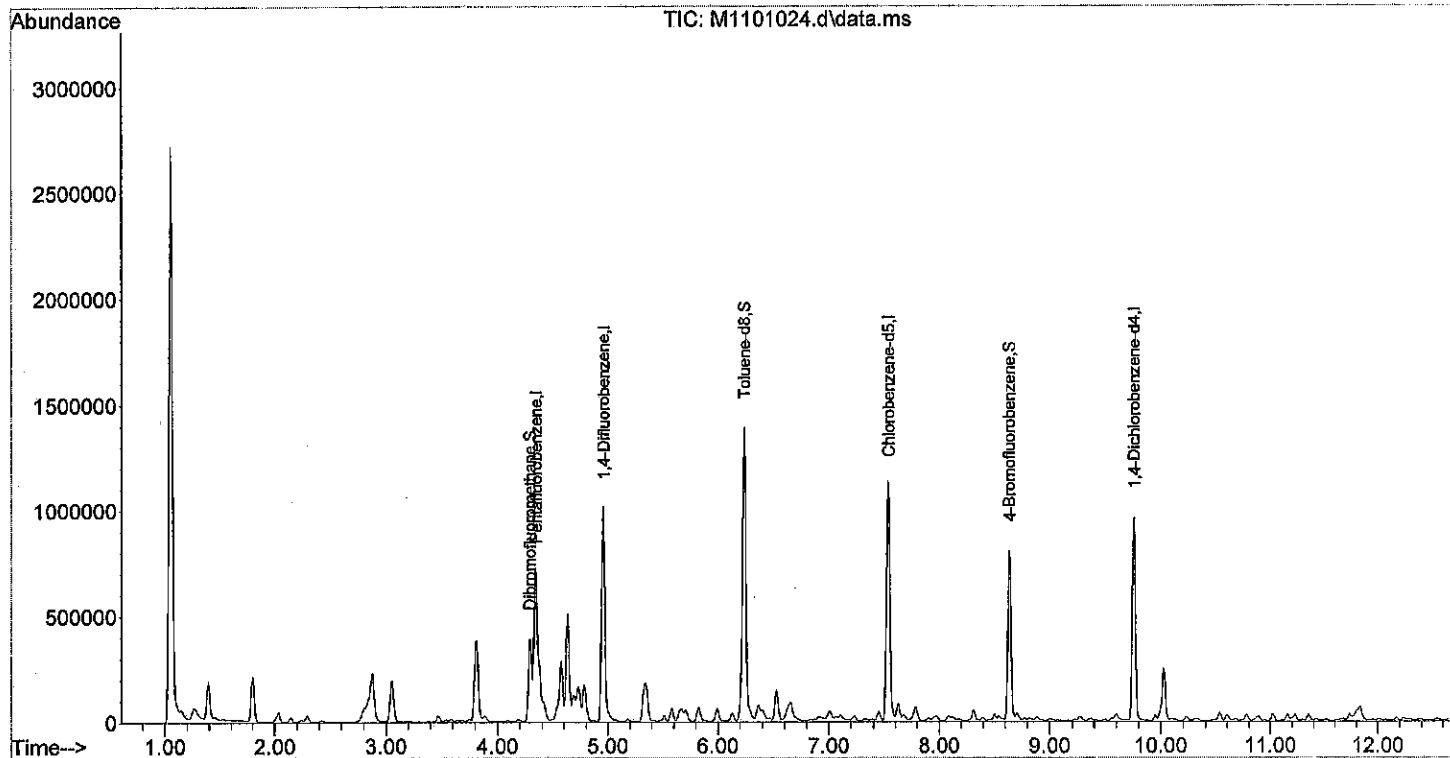
Internal Standards						
1) Pentafluorobenzene	4.342	168	521328	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	878808	10.00	ppb	0.00
6) Chlorobenzene-d5	7.538	117	733657	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	309567	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	258106	10.49	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	104.90%	
5) Toluene-d8	6.237	98	1007017	10.21	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	102.10%	
7) 4-Bromofluorobenzene	8.636	95	321299	10.29	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	102.90%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101024.d
 Acq On : 1 Nov 2021 7:08 pm
 Operator :
 Sample : 10-231-05g
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 02 09:57:20 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101025.d
 Acq On : 1 Nov 2021 7:35 pm
 Operator :
 Sample : 10-231-06g
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

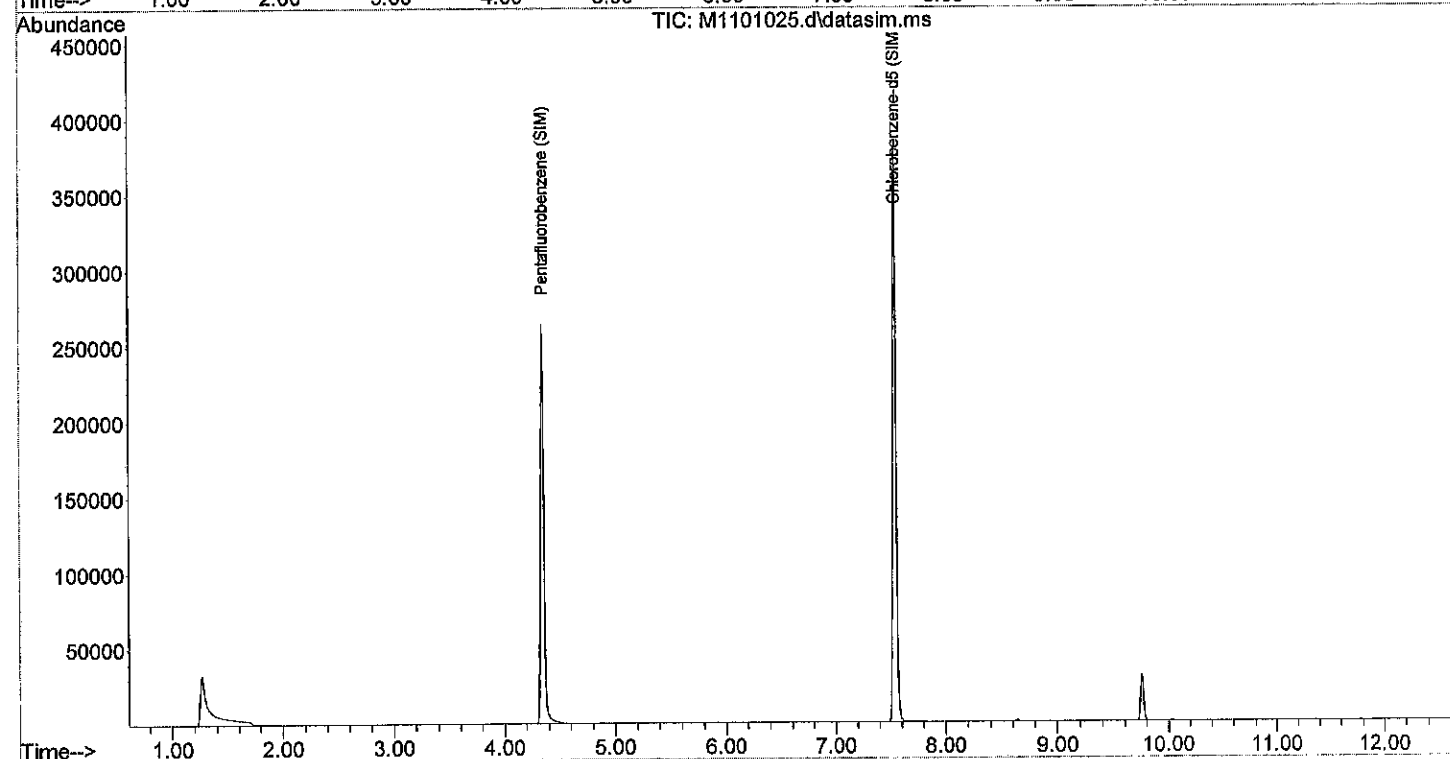
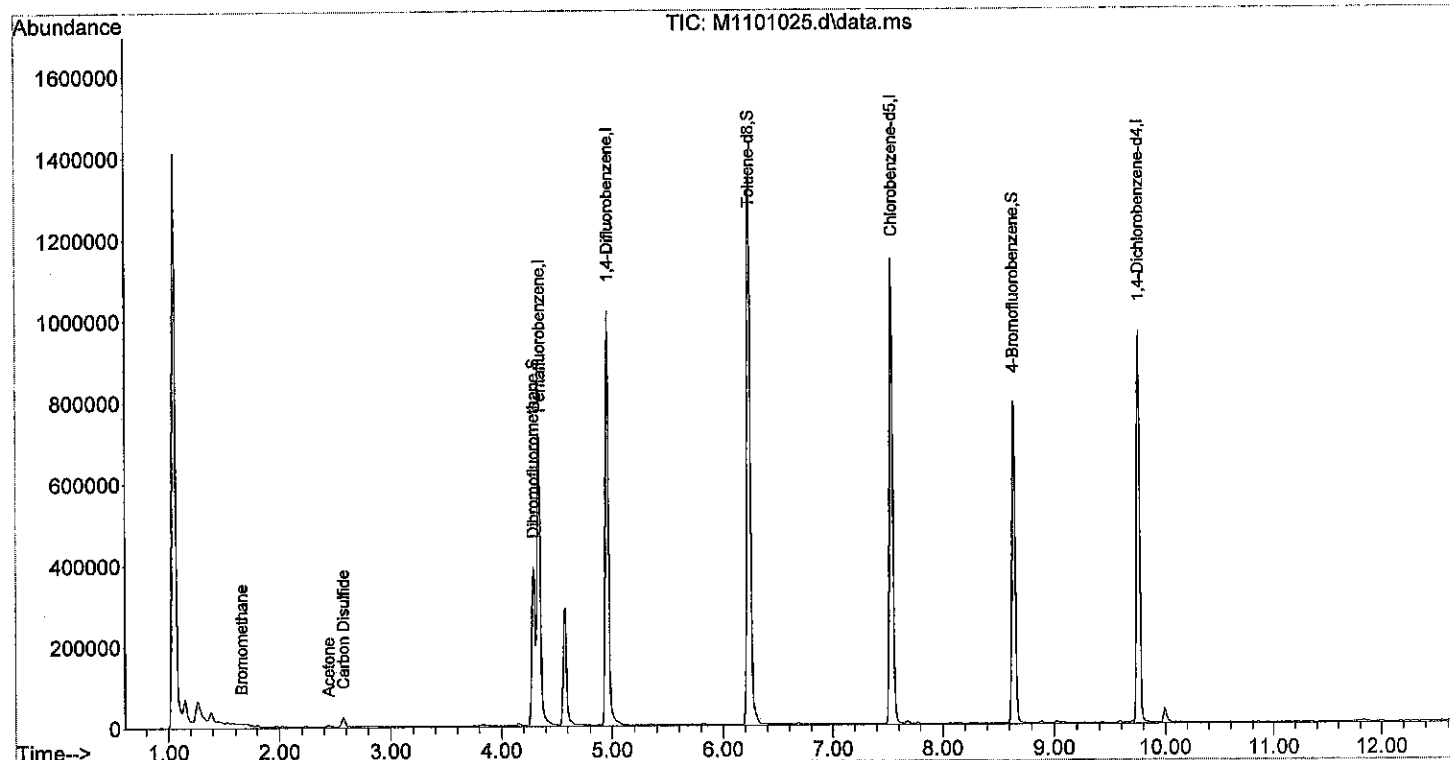
Quant Time: Nov 02 10:19:21 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

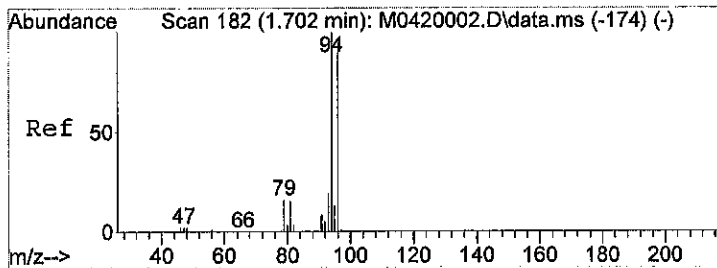
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	525732	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	538570	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	885871	10.00	ppb	0.00
41) Chlorobenzene-d5	7.537	117	749036	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.535	117	755472	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.757	152	311966	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	259160	10.09	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	100.90%
39) Toluene-d8	6.237	98	1008172	10.06	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.60%
57) 4-Bromofluorobenzene	8.636	95	322127	9.75	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	97.50%
Target Compounds						
5) Bromomethane	1.657	96	245	2.13	ppb	Qvalue # 56
9) Acetone	2.442	43	6620	2.01	ppb	88
11) Carbon Disulfide	2.574	76	30321	0.42	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101025.d
 Acq On : 1 Nov 2021 7:35 pm
 Operator :
 Sample : 10-231-06g
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

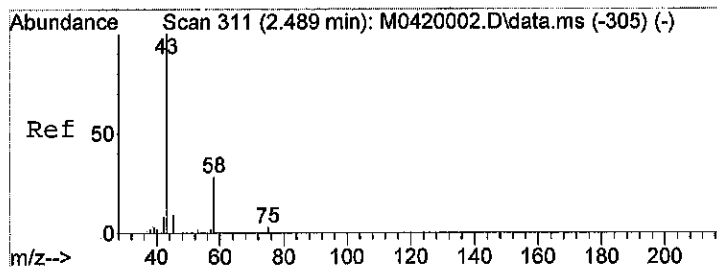
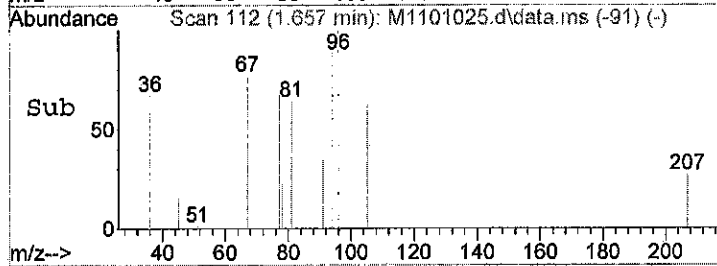
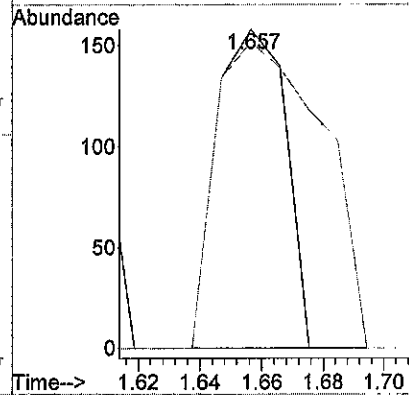
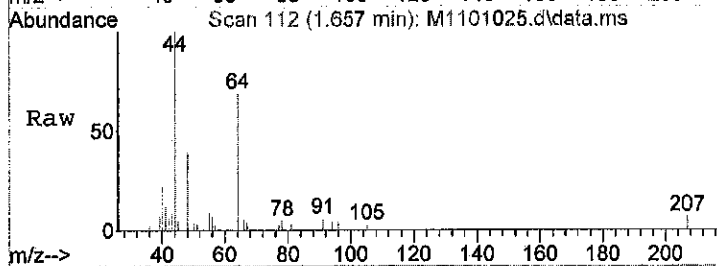
Quant Time: Nov 02 10:19:21 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration





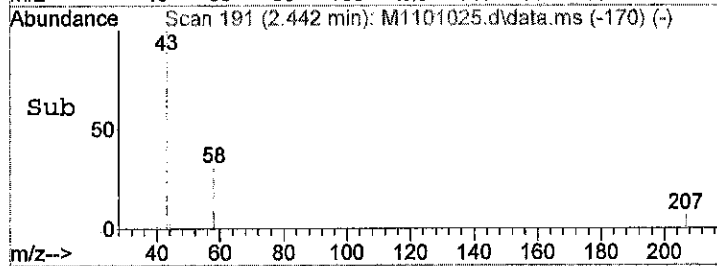
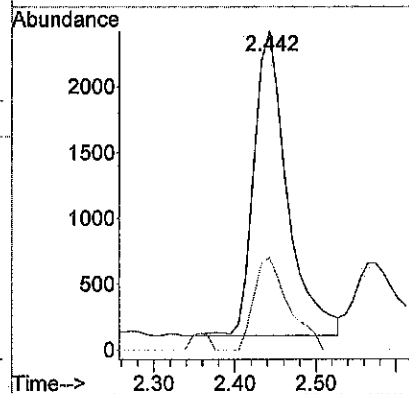
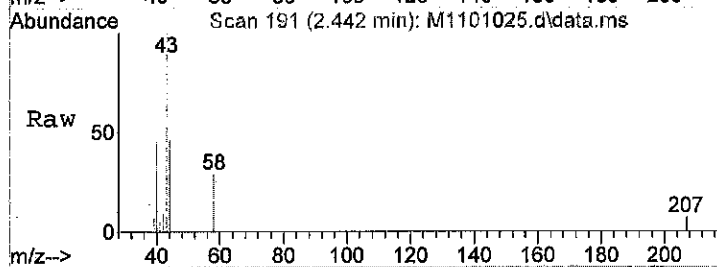
#5
 Bromomethane
 Concen: 2.13 ppb
 RT: 1.657 min Scan# 112
 Delta R.T. -0.000 min
 Lab File: M1101025.d
 Acq: 1 Nov 2021 7:35 pm

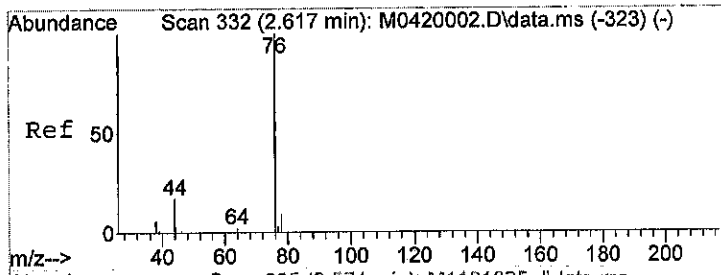
Tgt Ion	Resp	Lower	Upper
96	245		
96	100		
94	149.8	84.0	126.0#



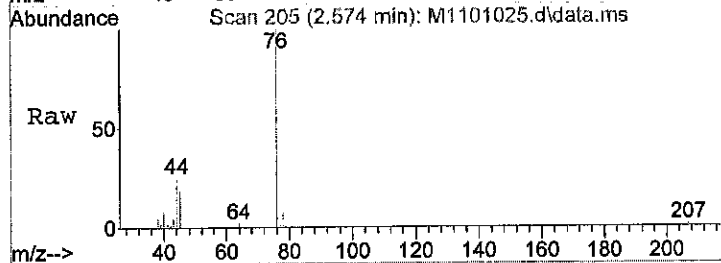
#9
 Acetone
 Concen: 2.01 ppb
 RT: 2.442 min Scan# 191
 Delta R.T. -0.000 min
 Lab File: M1101025.d
 Acq: 1 Nov 2021 7:35 pm

Tgt Ion	Resp	Lower	Upper
43	6620		
43	100		
58	31.3	30.9	46.3



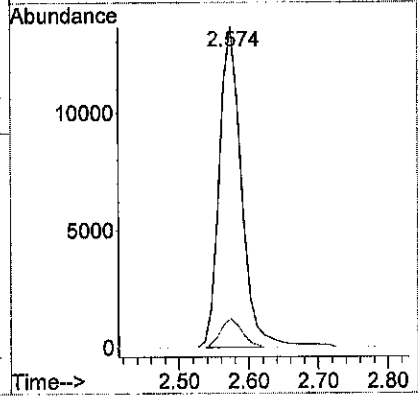
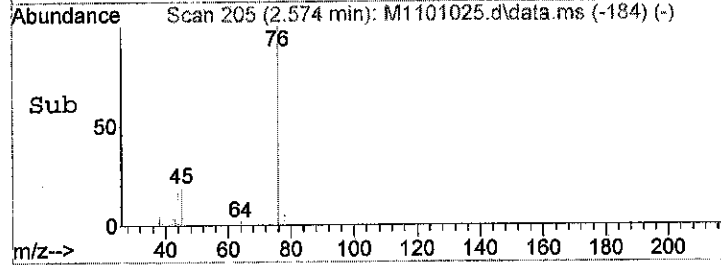


#11
 Carbon Disulfide
 Concen: 0.42 ppb
 RT: 2.574 min Scan# 205
 Delta R.T. 0.000 min
 Lab File: M1101025.d
 Acq: 1 Nov 2021 7:35 pm



Tgt Ion: 76 Resp: 30321

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.0



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101025.d
 Acq On : 1 Nov 2021 7:35 pm
 Operator :
 Sample : 10-231-06g
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 02 09:57:42 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

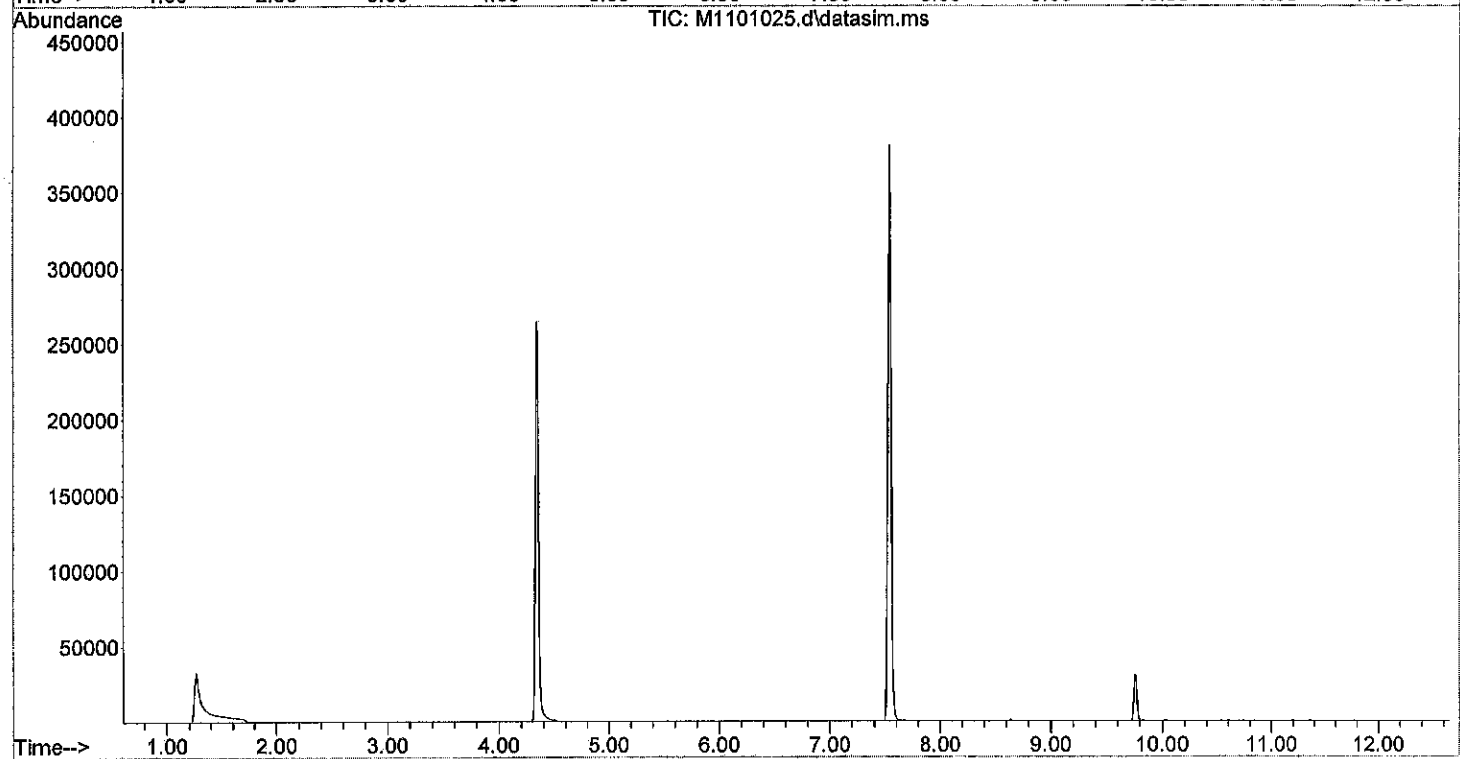
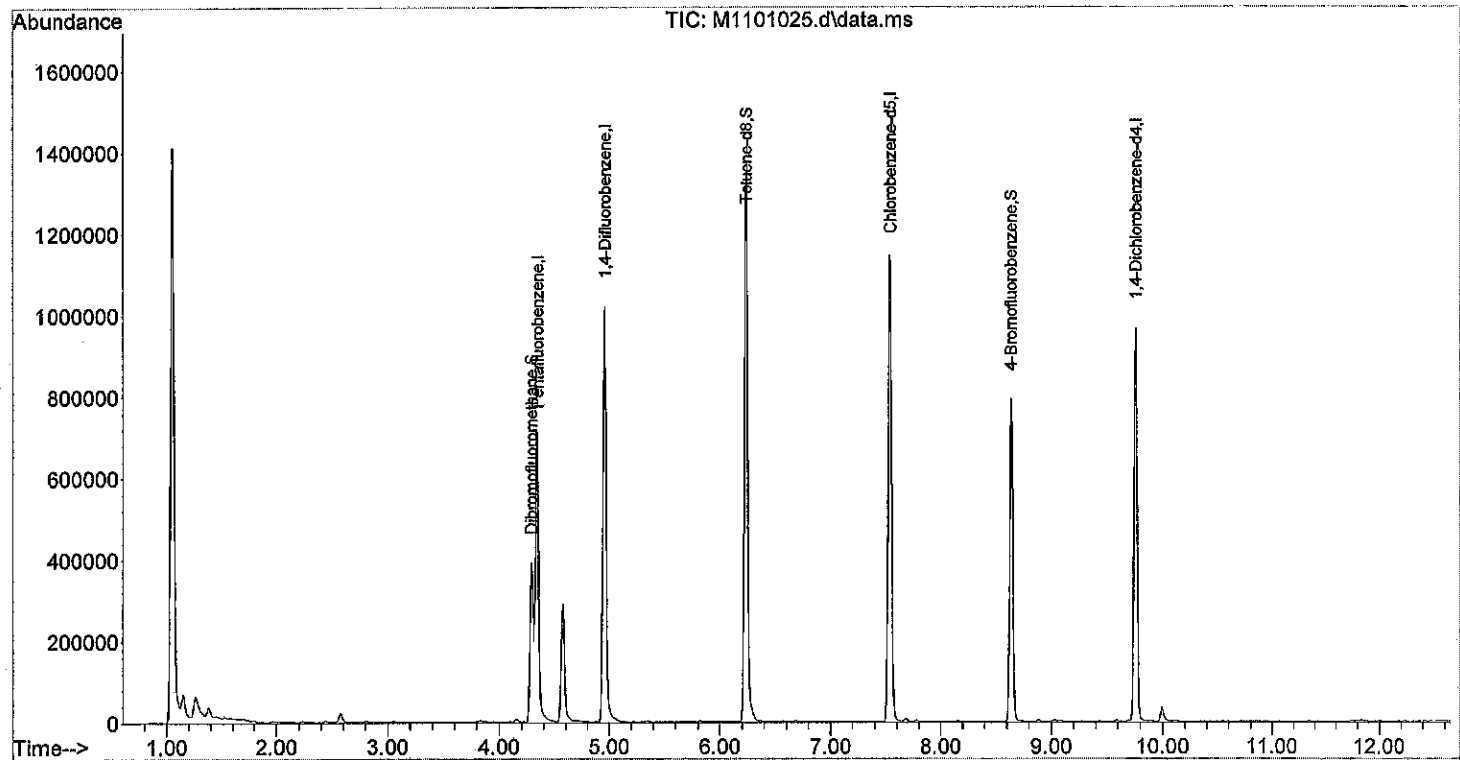
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	525732	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	885871	10.00	ppb	0.00
6) Chlorobenzene-d5	7.537	117	749036	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.757	152	311966	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	259160	10.44	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	104.40%		
5) Toluene-d8	6.237	98	1008172	10.14	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	101.40%		
7) 4-Bromofluorobenzene	8.636	95	322195	10.11	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	101.10%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
Data File : M1101025.d
Acq On : 1 Nov 2021 7:35 pm
Operator :
Sample : 10-231-06g
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 02 09:57:42 2021
Quant Method : C:\msdchem\1\methods\M211101WH.M
Quant Title :
QLast Update : Mon Nov 01 11:43:33 2021
Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101018.d
 Acq On : 1 Nov 2021 4:28 pm
 Operator :
 Sample : 10-231-07g
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

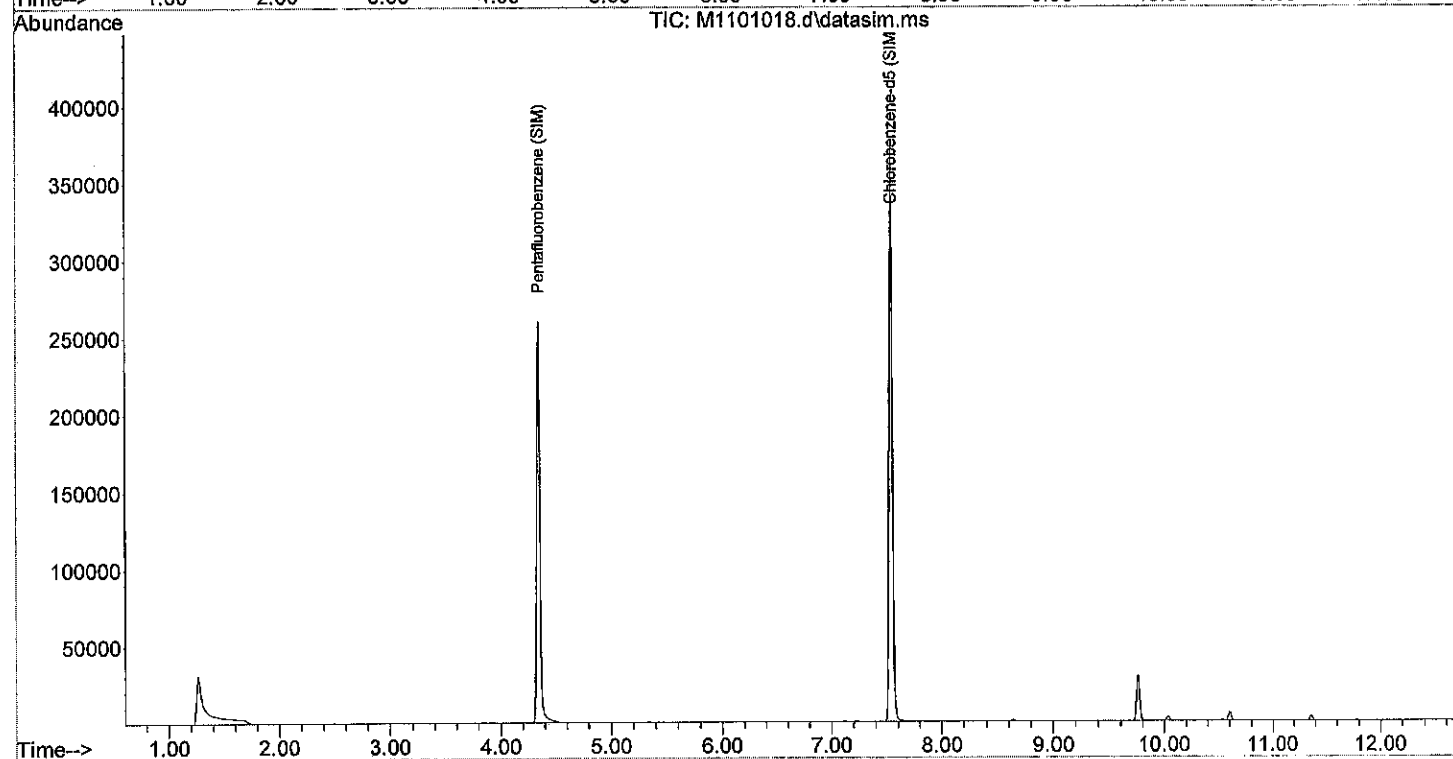
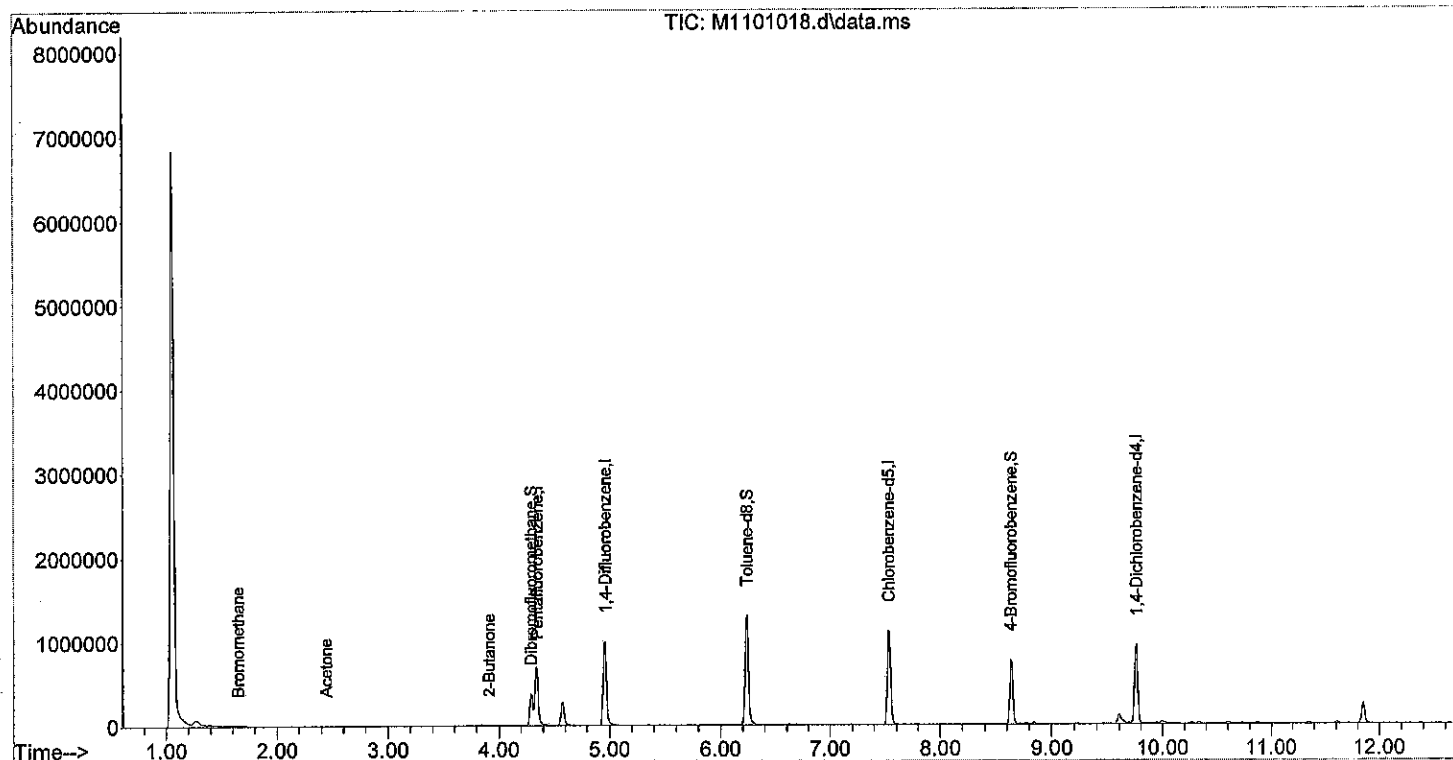
Quant Time: Nov 02 09:33:42 2021
 Quant Method : C:\msdchem\1\methods\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:13:26 2021
 Response via : Initial Calibration

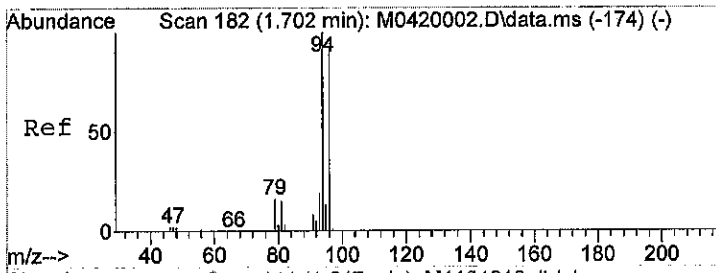
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	515016	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	531700	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	873843	10.00	ppb	0.00
41) Chlorobenzene-d5	7.530	117	720558	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	736448	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	304823	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	251158	9.98	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	99.80%
39) Toluene-d8	6.237	98	972129	9.84	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.40%
57) 4-Bromofluorobenzene	8.636	95	301905	9.50	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	95.00%
Target Compounds						
5) Bromomethane	1.647	96	353	2.15	ppb	# 1
9) Acetone	2.442	43	9267	2.87	ppb	# 92
19) 2-Butanone	3.909	43	2431	0.38	ppb	# 68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101018.d
 Acq On : 1 Nov 2021 4:28 pm
 Operator :
 Sample : 10-231-07g
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

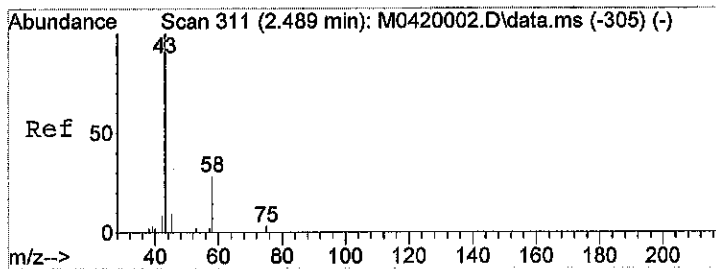
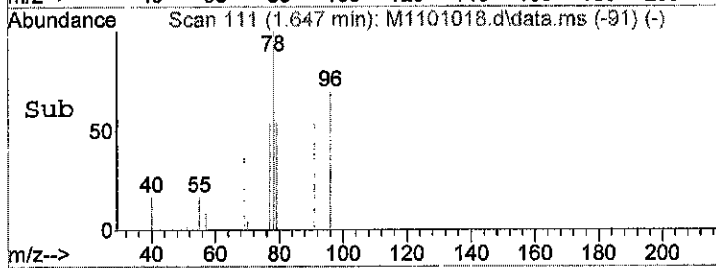
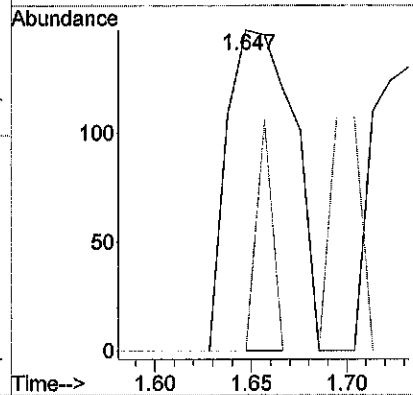
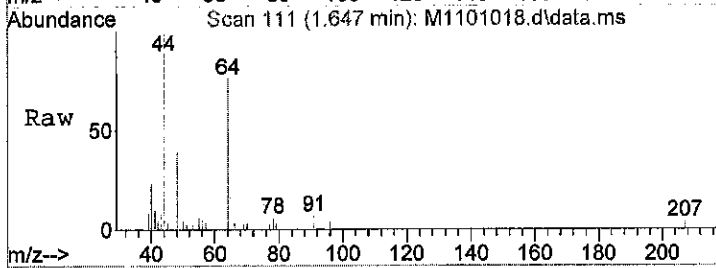
Quant Time: Nov 02 09:33:42 2021
 Quant Method : C:\msdchem\1\methods\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:13:26 2021
 Response via : Initial Calibration





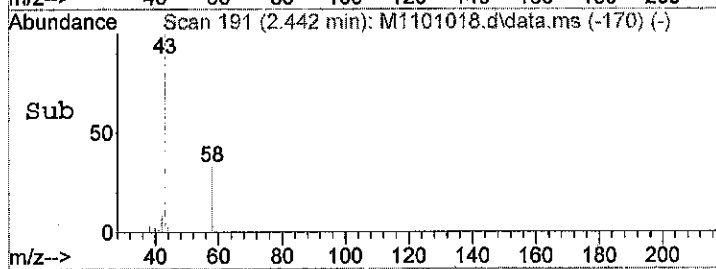
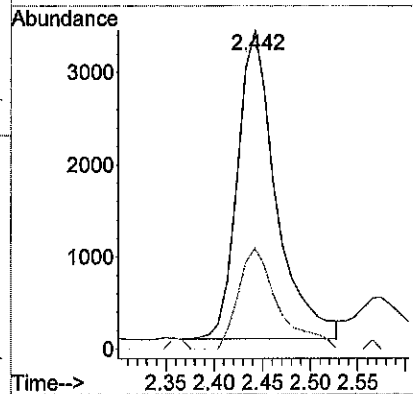
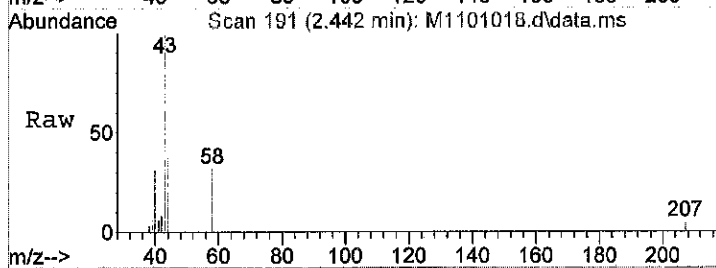
#5
 Bromomethane
 Concen: 2.15 ppb
 RT: 1.647 min Scan# 111
 Delta R.T. -0.010 min
 Lab File: M1101018.d
 Acq: 1 Nov 2021 4:28 pm

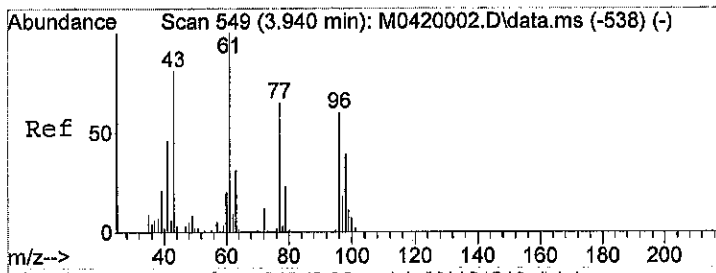
Tgt Ion: 96 Resp: 353
 Ion Ratio Lower Upper
 96 100
 94 0.0 84.0 126.0#



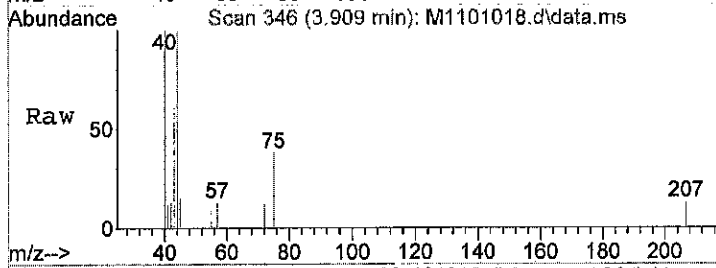
#9
 Acetone
 Concen: 2.87 ppb
 RT: 2.442 min Scan# 191
 Delta R.T. 0.000 min
 Lab File: M1101018.d
 Acq: 1 Nov 2021 4:28 pm

Tgt Ion: 43 Resp: 9267
 Ion Ratio Lower Upper
 43 100
 58 33.8 30.9 46.3

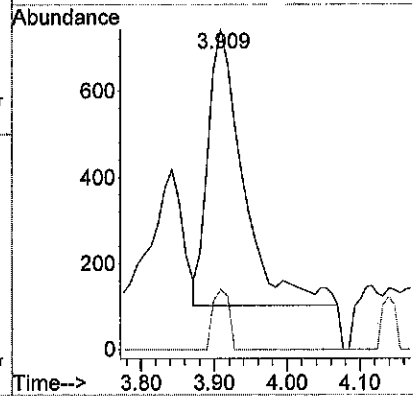
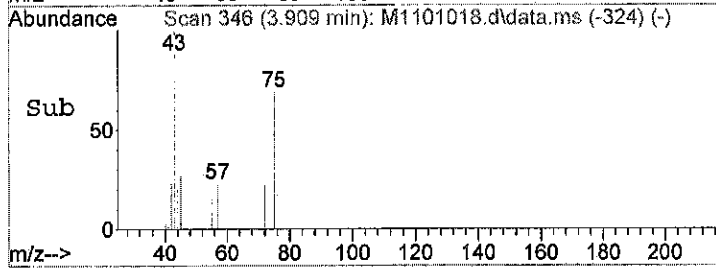




#19
 2-Butanone
 Concen: 0.38 ppb
 RT: 3.909 min Scan# 346
 Delta R.T. 0.010 min
 Lab File: M1101018.d
 Acq: 1 Nov 2021 4:28 pm



Tgt Ion: 43 Resp: 2431
 Ion Ratio Lower Upper
 43 100
 72 8.8 20.1 30.1#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101018.d
 Acq On : 1 Nov 2021 4:28 pm
 Operator :
 Sample : 10-231-07g
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 02 09:33:26 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

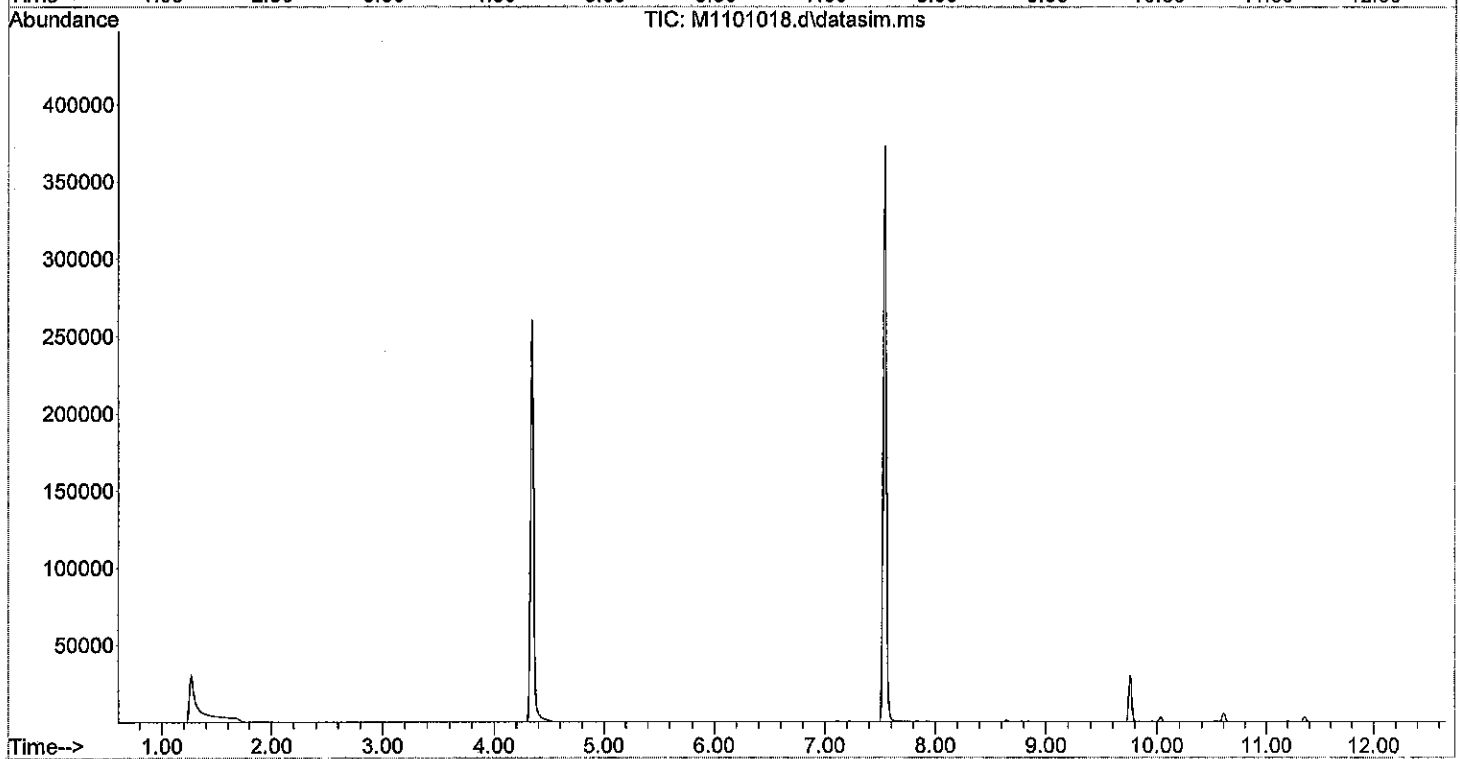
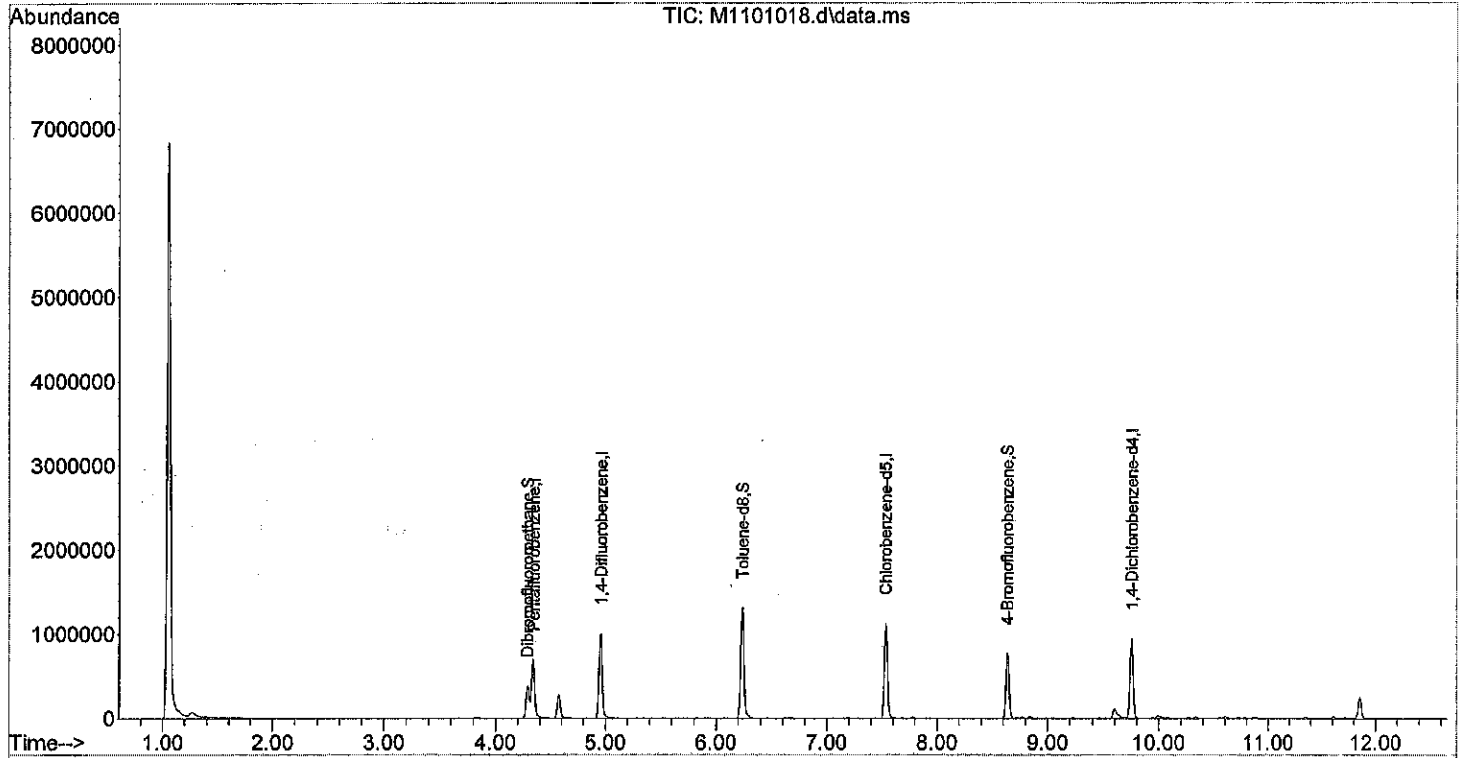
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	515016	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	873843	10.00	ppb	0.00
6) Chlorobenzene-d5	7.530	117	720558	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	304823	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	251158	10.33	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	103.30%	
5) Toluene-d8	6.237	98	972129	9.91	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.10%	
7) 4-Bromofluorobenzene	8.636	95	302126	9.85	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	98.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101018.d
 Acq On : 1 Nov 2021 4:28 pm
 Operator :
 Sample : 10-231-07g
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 02 09:33:26 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101026.d
 Acq On : 1 Nov 2021 8:02 pm
 Operator :
 Sample : 10-231-08g
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 10:27:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

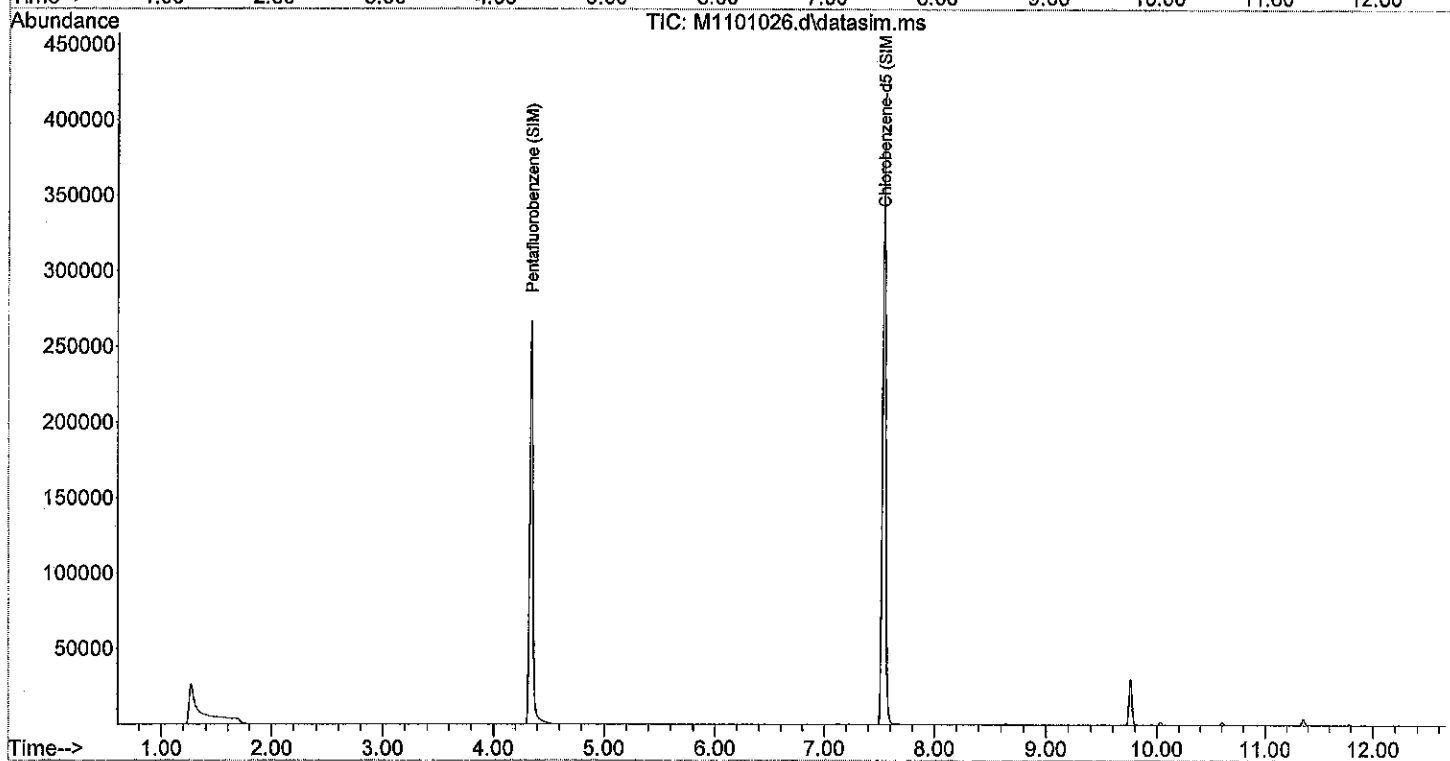
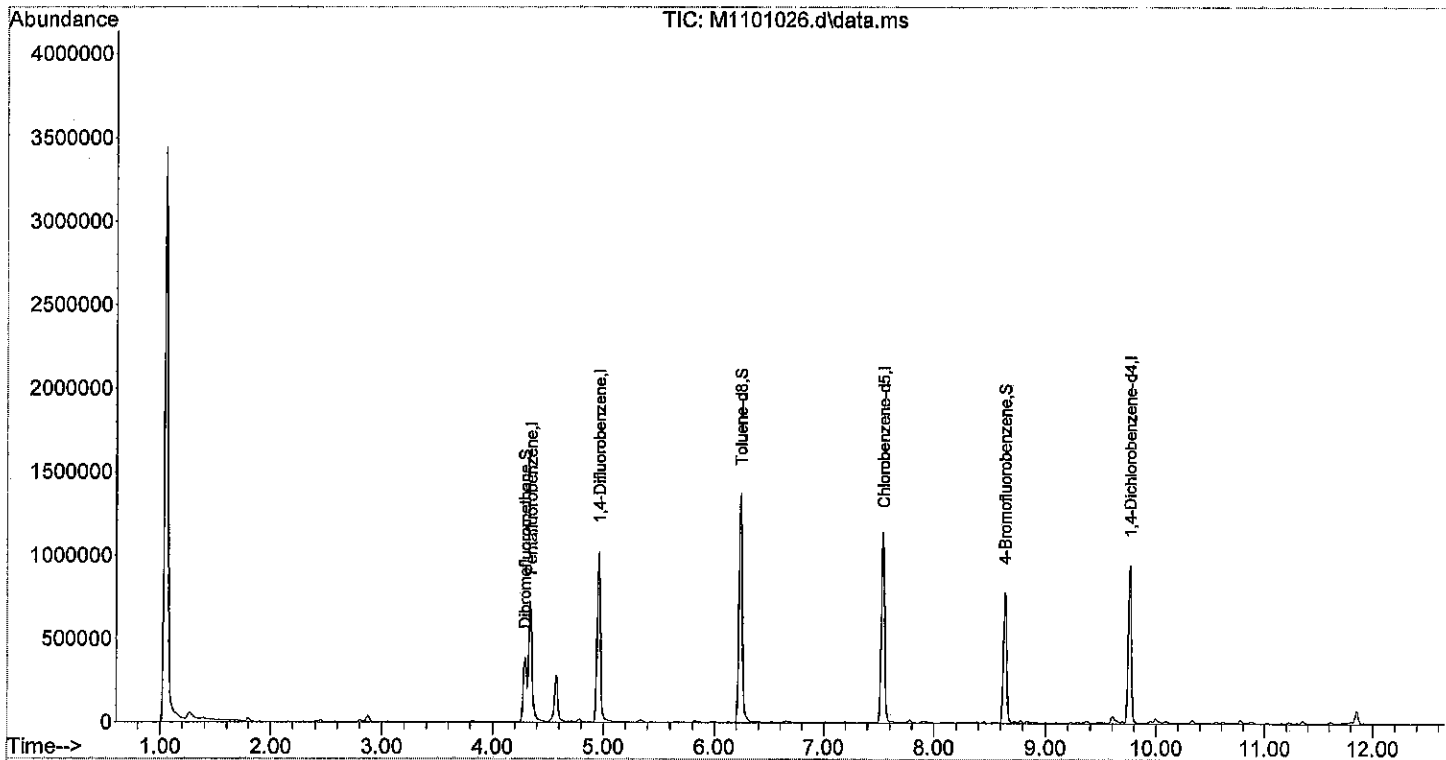
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	532233	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	544393	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	894204	10.00	ppb	0.00
41) Chlorobenzene-d5	7.538	117	736530	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	751958	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	307278	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.288	111	257855	9.91	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	99.10%
39) Toluene-d8	6.237	98	1020020	10.09	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.90%
57) 4-Bromofluorobenzene	8.636	95	316019	9.73	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	97.30%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
Data File : M1101026.d
Acq On : 1 Nov 2021 8:02 pm
Operator :
Sample : 10-231-08g
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 10:27:09 2021
Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
Quant Title :
QLast Update : Thu Oct 14 17:11:56 2021
Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101026.d
 Acq On : 1 Nov 2021 8:02 pm
 Operator :
 Sample : 10-231-08g
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 09:57:58 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

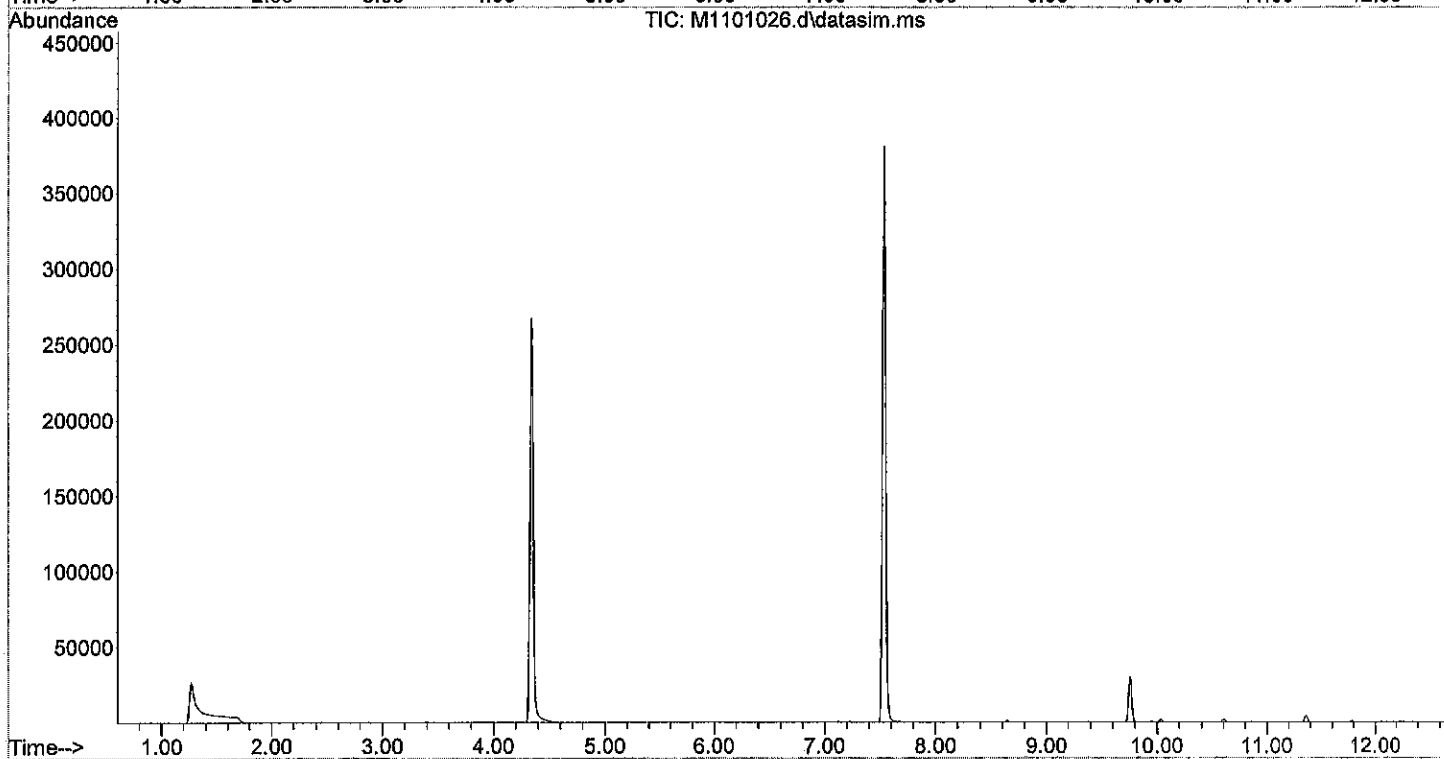
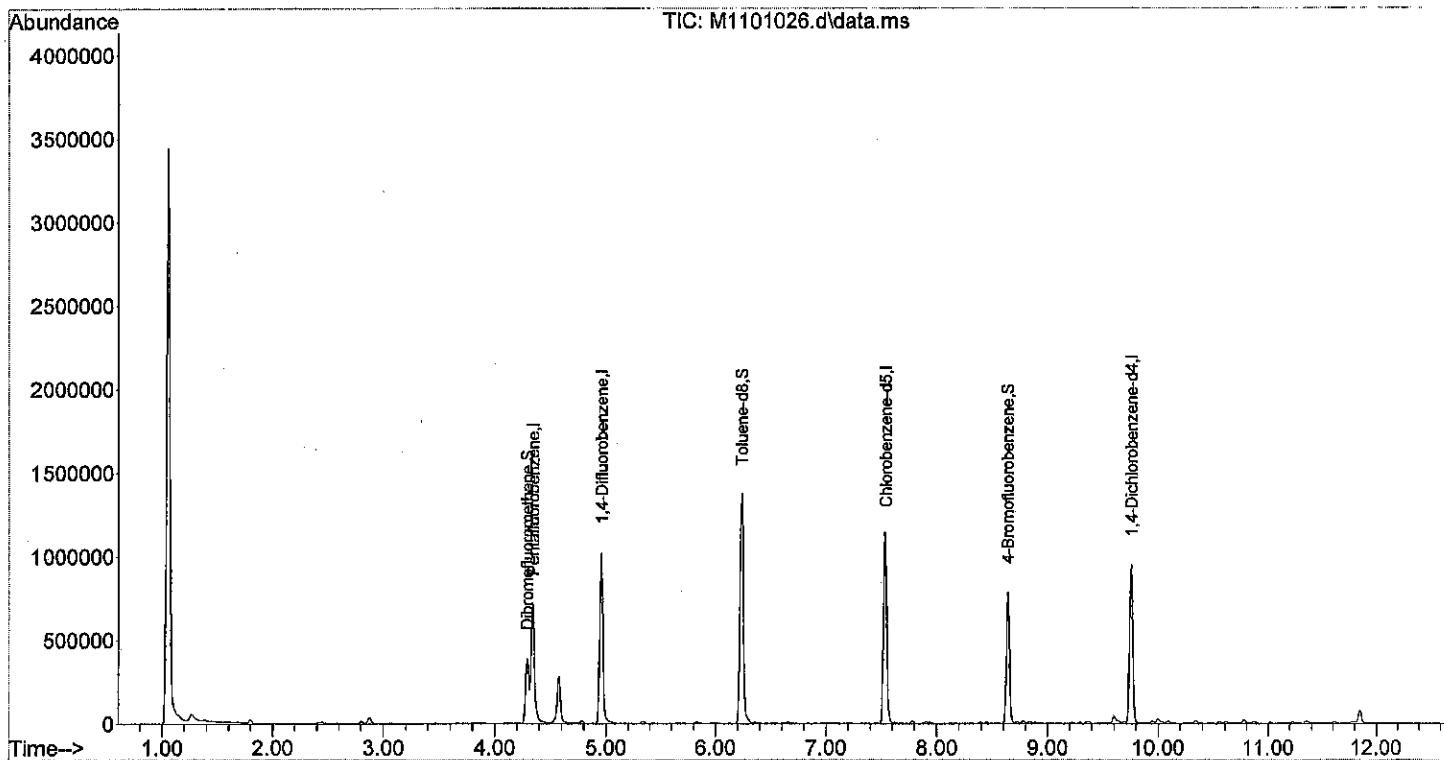
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	532233	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	894204	10.00	ppb	0.00
6) Chlorobenzene-d5	7.538	117	736530	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	307278	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.288	111	257855	10.26	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	102.60%	
5) Toluene-d8	6.237	98	1020020	10.16	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	101.60%	
7) 4-Bromofluorobenzene	8.636	95	316019	10.08	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	100.80%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101026.d
 Acq On : 1 Nov 2021 8:02 pm
 Operator :
 Sample : 10-231-08g
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 09:57:58 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101016.d
 Acq On : 1 Nov 2021 3:33 pm
 Operator :
 Sample : MB1101W1
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

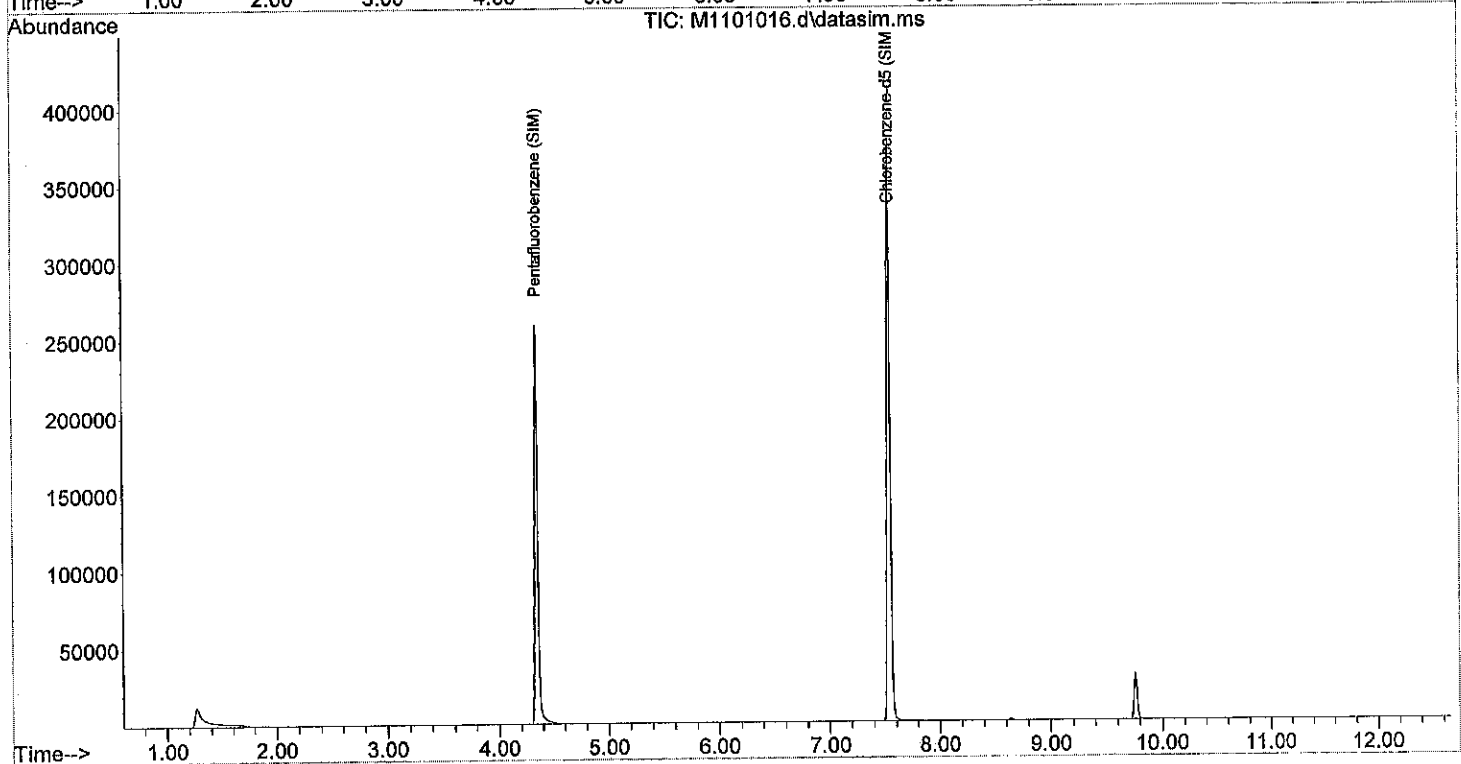
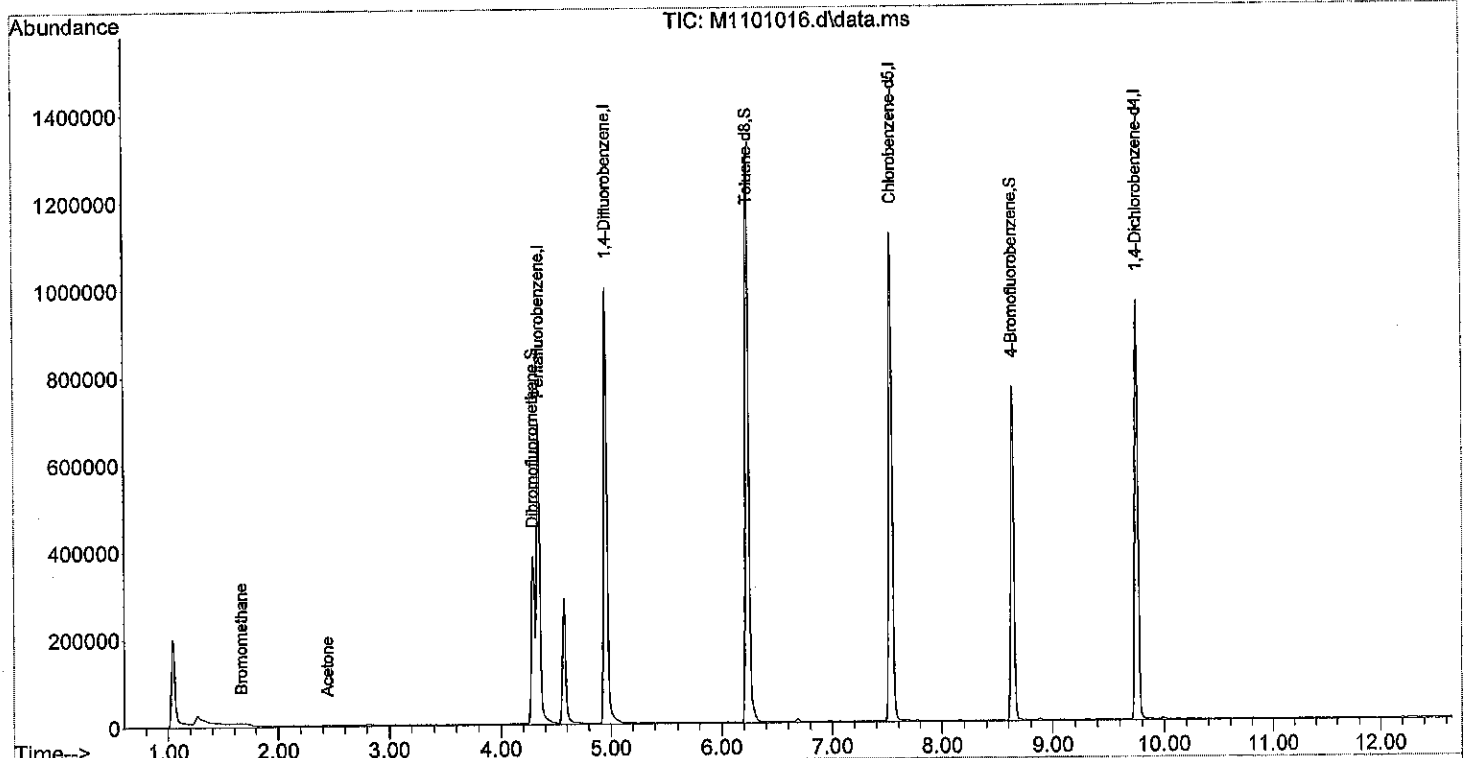
Quant Time: Nov 01 15:53:03 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

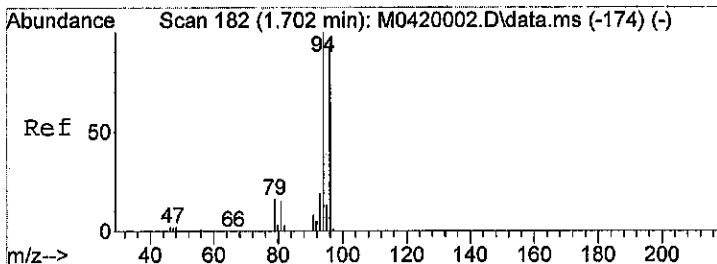
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	511768	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	529195	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	862467	10.00	ppb	0.00
41) Chlorobenzene-d5	7.537	117	734209	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.535	117	741245	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.757	152	310280	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	255084	10.20	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	102.00%	
39) Toluene-d8	6.236	98	978640	10.03	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	100.30%	
57) 4-Bromofluorobenzene	8.636	95	311237	9.61	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	96.10%	
Target Compounds						
5) Bromomethane	1.666	96	446	2.16	ppb	# 66
9) Acetone	2.442	43	2140	0.67	ppb	# 65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101016.d
 Acq On : 1 Nov 2021 3:33 pm
 Operator :
 Sample : MB1101W1
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

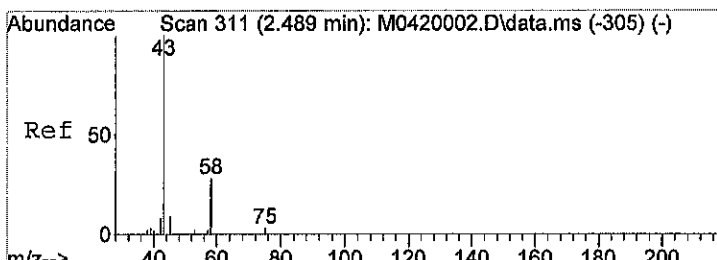
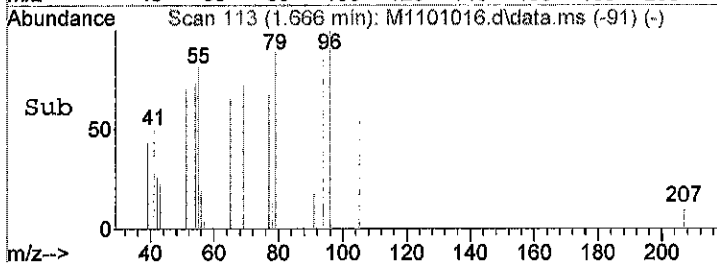
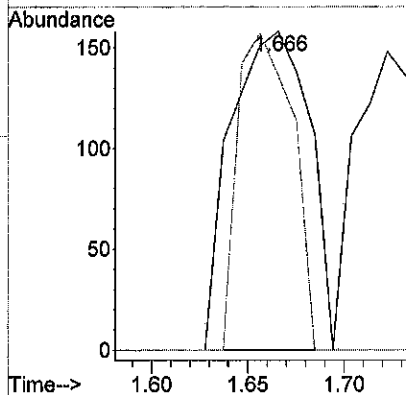
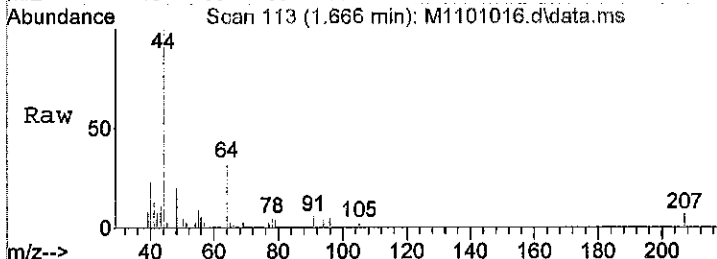
Quant Time: Nov 01 15:53:03 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration





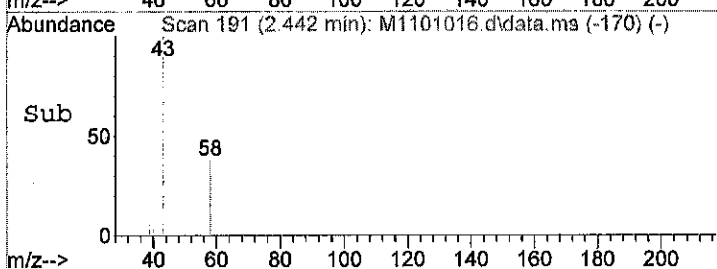
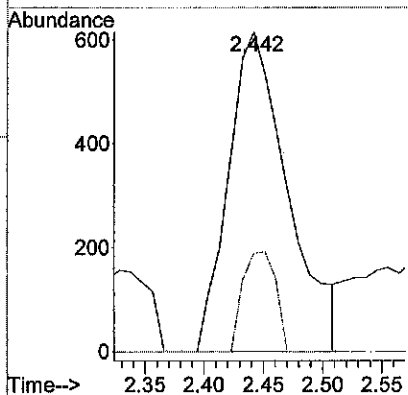
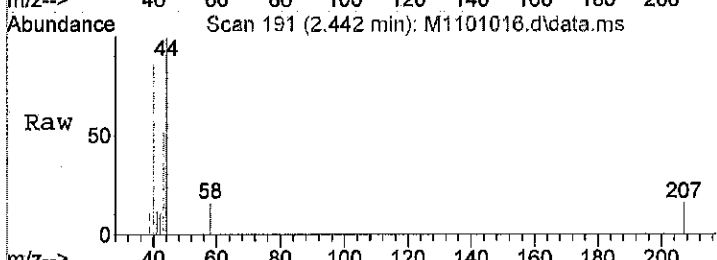
#5
 Bromomethane
 Concen: 2.16 ppb
 RT: 1.666 min Scan# 113
 Delta R.T. 0.009 min
 Lab File: M1101016.d
 Acq: 1 Nov 2021 3:33 pm

Tgt Ion:	96	Resp:	446
Ion Ratio	Lower	Upper	
96	100		
94	70.0	84.0	126.0#



#9
 Acetone
 Concen: 0.67 ppb
 RT: 2.442 min Scan# 191
 Delta R.T. -0.000 min
 Lab File: M1101016.d
 Acq: 1 Nov 2021 3:33 pm

Tgt Ion:	43	Resp:	2140
Ion Ratio	Lower	Upper	
43	100		
58	17.5	30.9	46.3#



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101016.d
 Acq On : 1 Nov 2021 3:33 pm
 Operator :
 Sample : MB1101W1
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 16:23:19 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

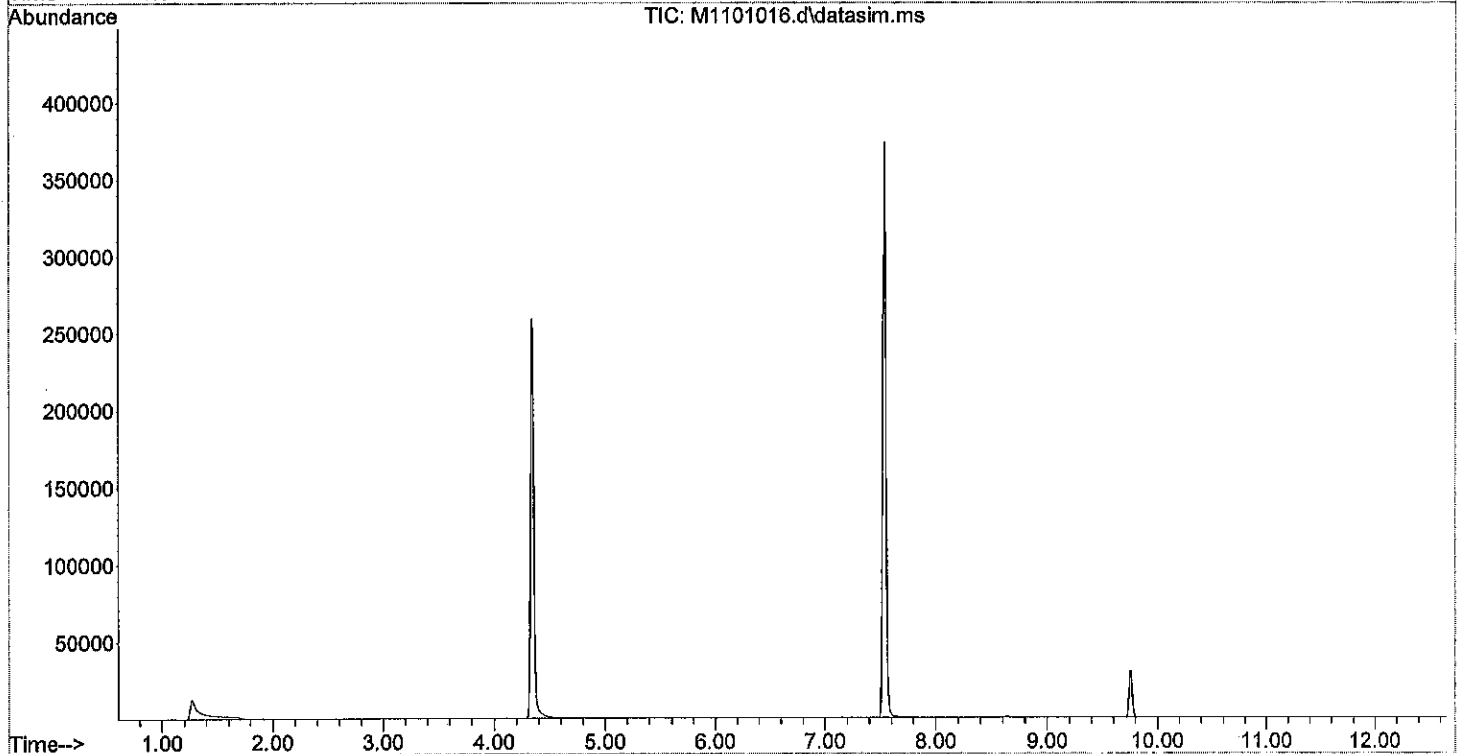
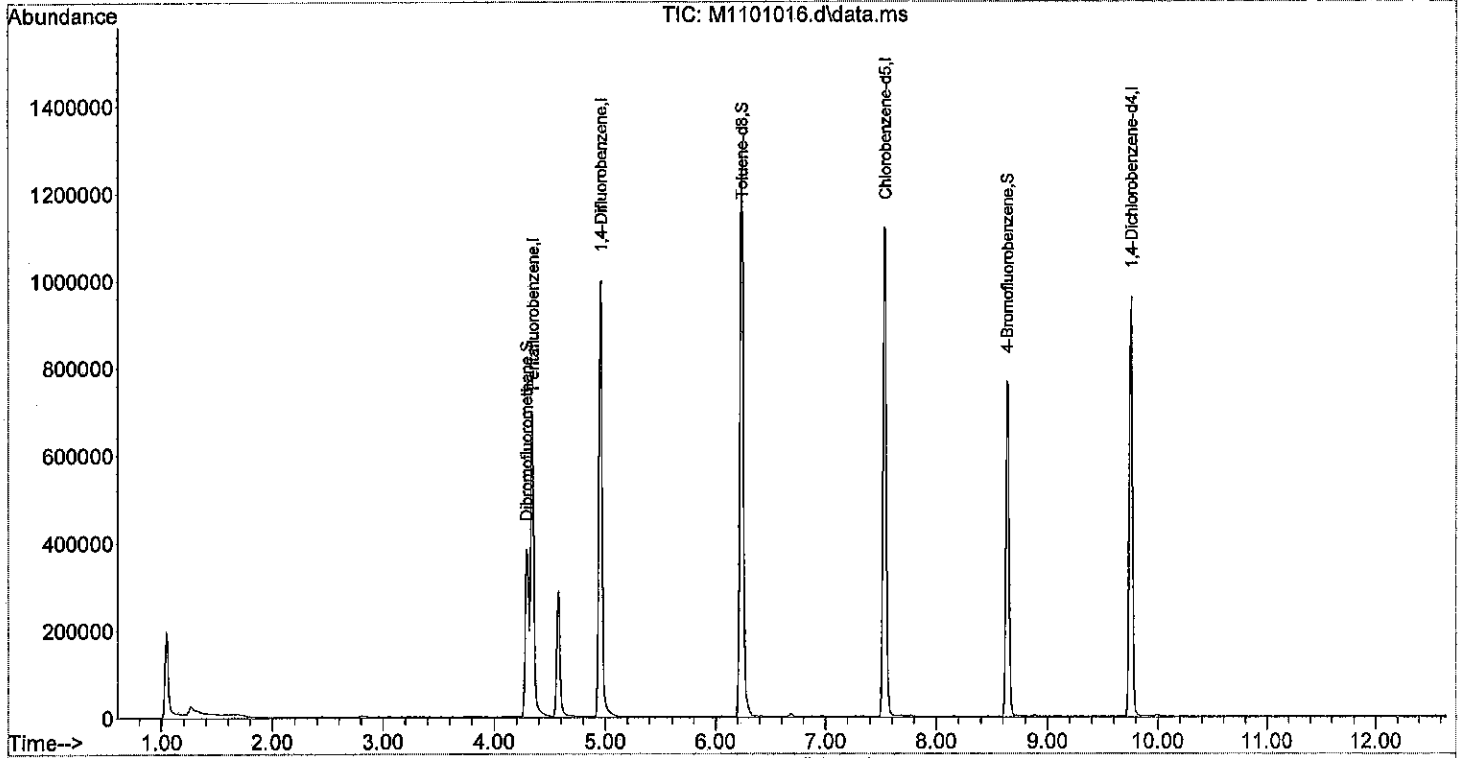
Internal Standards						
1) Pentafluorobenzene	4.342	168	511768	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	862467	10.00	ppb	0.00
6) Chlorobenzene-d5	7.537	117	734047	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.757	152	310293	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	255084	10.56	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	105.60%	
5) Toluene-d8	6.236	98	978640	10.11	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	101.10%	
7) 4-Bromofluorobenzene	8.636	95	311318	9.96	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	99.60%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101016.d
 Acq On : 1 Nov 2021 3:33 pm
 Operator :
 Sample : MB1101W1
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 16:23:19 2021
 Quant Method : C:\msdchem\1\methods\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	544798	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	559118	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	911794	10.00	ppb	0.00
41) Chlorobenzene-d5	7.530	117	754490	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	773810	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	324323	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	266808	10.02	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	100.20%	
39) Toluene-d8	6.237	98	1038531	10.07	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	100.70%	
57) 4-Bromofluorobenzene	8.636	95	330765	9.94	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	99.40%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.184	85	180744	10.76	ppb	99
3) Chloromethane	1.316	50	236004	9.55	ppb	99
4) Vinyl Chloride	1.392	62	285856	10.23	ppb	90
5) Bromomethane	1.647	96	61328	9.76	ppb	99
6) Chloroethane	1.732	64	161541	8.95	ppb	96
7) Trichlorofluoromethane	1.950	101	409995	9.99	ppb	99
8) 1,1-Dichloroethene	2.395	61	470251	9.83	ppb	100
9) Acetone	2.442	43	31053	9.08	ppb	# 87
10) Iodomethane	2.518	142	126306	4.53	ppb	98
11) Carbon Disulfide	2.574	76	654419	8.68	ppb	100
12) Methylene Chloride	2.802	49	387933	9.13	ppb	99
13) (trans) 1,2-Dichloroet...	3.038	61	455743	9.80	ppb	98
14) Methyl t-Butyl Ether	3.048	73	478876	9.00	ppb	99
15) 1,1-Dichloroethane	3.398	63	559199	9.67	ppb	99
16) Vinyl Acetate	3.445	43	333675	8.07	ppb	99
17) 2,2-Dichloropropane	3.890	77	486095	10.82	ppb	98
18) (cis) 1,2-Dichloroethene	3.890	61	586534	10.09	ppb	100
19) 2-Butanone	3.899	43	59919	8.95	ppb	100
20) Bromochloromethane	4.085	130	158925	10.35	ppb	95
21) Chloroform	4.155	83	476813	9.86	ppb	99
22) 1,1,1-Trichloroethane	4.319	97	433172	9.84	ppb	99
24) Carbon Tetrachloride	4.459	117	398699	9.83	ppb	100
25) 1,1-Dichloropropene	4.459	75	387847	9.76	ppb	99
26) Benzene	4.630	78	1064369	9.58	ppb	100
27) 1,2-Dichloroethane	4.638	62	313054	9.82	ppb	99
29] Vinyl Chloride (SIM)	1.397	62	292537	9670.71	ppt	93
30] 1,1-Dichloroethene (SIM)	2.391	61	484493	10080.48	ppt	100
32) Trichloroethene	5.176	130	301788	9.86	ppb	98
33) 1,2-Dichloropropane	5.363	63	304463	9.24	ppb	99
34) Dibromomethane	5.465	174	121309	9.88	ppb	99
35) Bromodichloromethane	5.597	83	326881	9.54	ppb	100
36) 2-Chloroethyl Vinyl Ether	5.870	63	57006	5.57	ppb	98
37) (cis) 1,3-Dichloropropene	5.995	75	402955	9.59	ppb	99
38) Methyl Isobutyl Ketone	6.128	43	142309	8.85	ppb	99
40) Toluene	6.291	91	1120580	9.43	ppb	100

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

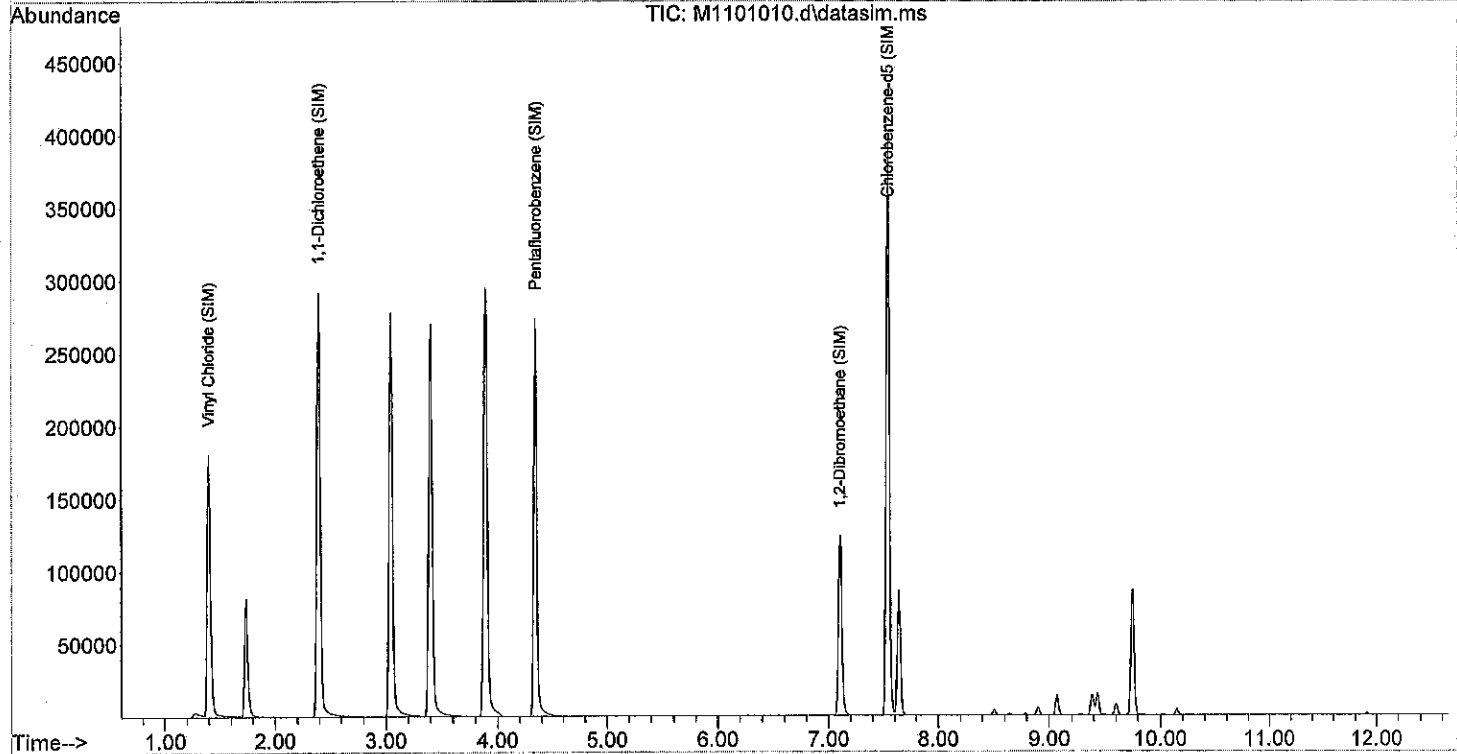
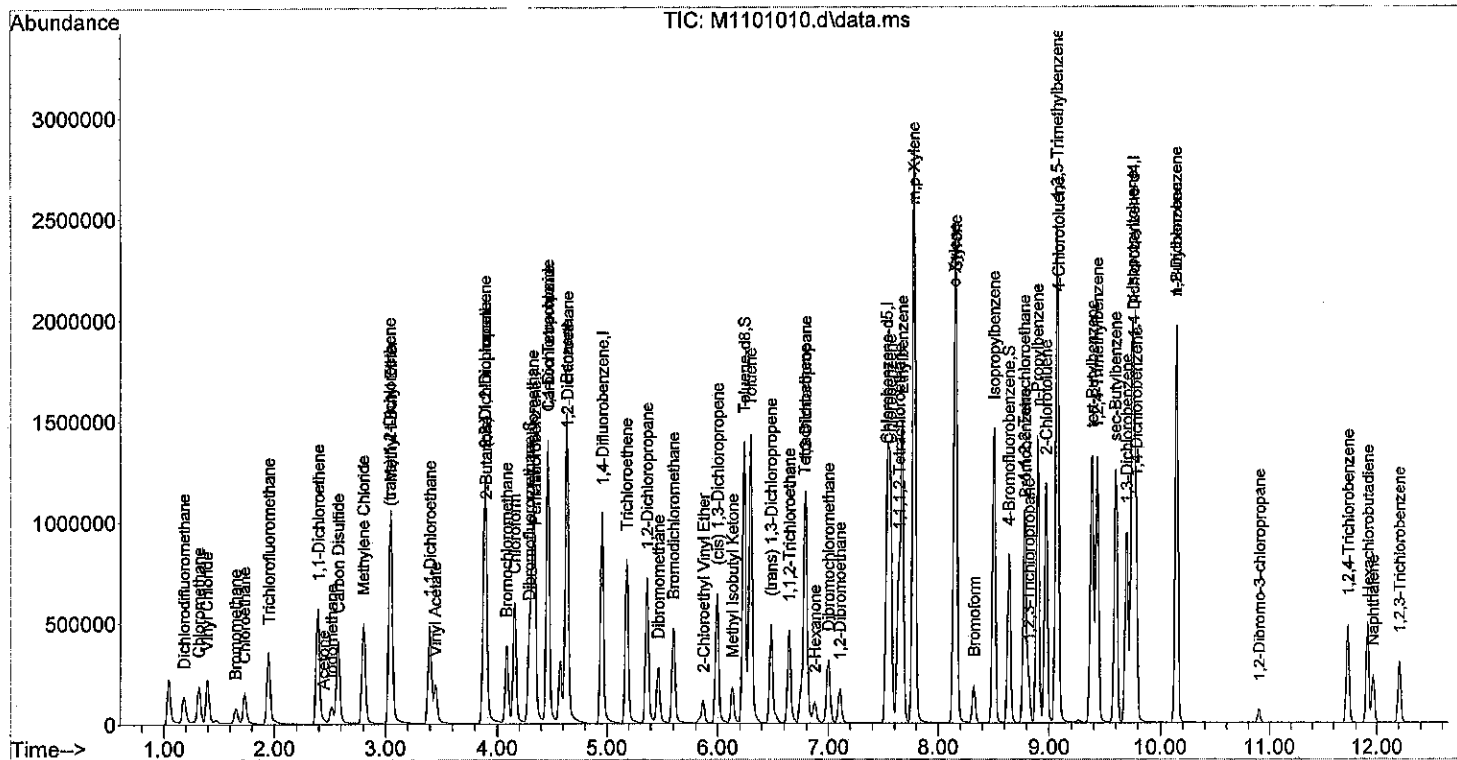
Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) (trans) 1,3-Dichloropr...	6.478	75	291313	9.20	ppb	99
43) 1,1,2-Trichloroethane	6.642	97	152546	8.23	ppb	97
44) Tetrachloroethene	6.781	166	349817	9.54	ppb	99
45) 1,3-Dichloropropane	6.791	76	323019	9.32	ppb	100
46) 2-Hexanone	6.876	43	94069	8.86	ppb	99
47) Dibromochloromethane	6.999	129	207912	9.19	ppb	98
48) 1,2-Dibromoethane	7.103	107	144887	8.95	ppb	100
49) Chlorobenzene	7.561	112	675164	9.54	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.639	133	238916	9.19	ppb	98
51) Ethylbenzene	7.670	91	1211356	9.48	ppb	100
52) m,p-Xylene	7.779	91	1927085	18.74	ppb	99
53) o-Xylene	8.145	91	938028	9.32	ppb	100
54) Styrene	8.161	104	728087	9.26	ppb	100
55) Bromoform	8.324	173	104845	8.98	ppb	98
56) Isopropylbenzene	8.503	105	1138482	9.57	ppb	99
59] 1,2-Dibromoethane (SIM)	7.100	107	148262	9270.88	ppt	100
61) Bromobenzene	8.784	156	265298	9.44	ppb	99
62) 1,1,2,2-Tetrachloroethane	8.776	83	155018	8.89	ppb	100
63) 1,2,3-Trichloropropane	8.815	75	140388	8.74	ppb #	100
64) n-Propylbenzene	8.893	91	1305576	9.29	ppb	100
65) 2-Chlorotoluene	8.971	126	264406	9.55	ppb	100
66) 4-Chlorotoluene	9.080	126	268271	9.42	ppb	99
67) 1,3,5-Trimethylbenzene	9.072	105	893628	9.42	ppb	100
68) tert-Butylbenzene	9.384	119	859075	9.19	ppb	100
69) 1,2,4-Trimethylbenzene	9.430	105	885475	9.24	ppb	99
70) sec-Butylbenzene	9.594	105	1031313	9.41	ppb	100
71) 1,3-Dichlorobenzene	9.695	146	478267	9.43	ppb	100
72) p-Isopropyltoluene	9.742	119	897434	9.44	ppb	100
73) 1,4-Dichlorobenzene	9.781	146	478938	9.58	ppb	100
74) 1,2-Dichlorobenzene	10.139	146	393725	9.44	ppb	99
75) n-Butylbenzene	10.139	91	763739	9.29	ppb	99
76) 1,2-Dibromo-3-chloropr...	10.903	157	21721	8.45	ppb	93
77) 1,2,4-Trichlorobenzene	11.728	180	181005	8.78	ppb	100
78) Hexachlorobutadiene	11.915	225	117273	9.12	ppb	99
79) Naphthalene	11.962	128	228856	7.90	ppb	99
80) 1,2,3-Trichlorobenzene	12.204	180	114690	8.33	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101011.d
 Acq On : 1 Nov 2021 1:19 pm
 Operator :
 Sample : SBD1101W1
 Misc : V4-085-12/V4-084-18
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 13:31:55 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	527036	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	543150	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	882761	10.00	ppb	0.00
41) Chlorobenzene-d5	7.538	117	740280	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	752993	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	323712	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.288	111	258806	10.05	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	100.50%
39) Toluene-d8	6.237	98	998634	10.00	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.00%
57) 4-Bromofluorobenzene	8.636	95	325566	9.97	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	99.70%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.184	85	182004	11.20	ppb	98
3) Chloromethane	1.316	50	235115	9.84	ppb	99
4) Vinyl Chloride	1.401	62	282663	10.46	ppb	89
5) Bromomethane	1.647	96	70710	11.23	ppb	97
6) Chloroethane	1.733	64	167160	9.57	ppb	98
7) Trichlorofluoromethane	1.950	101	420581	10.60	ppb	100
8) 1,1-Dichloroethene	2.395	61	472401	10.21	ppb	99
9) Acetone	2.442	43	29526	8.93	ppb	# 87
10) Iodomethane	2.518	142	173987	6.45	ppb	98
11) Carbon Disulfide	2.575	76	689677	9.46	ppb	100
12) Methylene Chloride	2.802	49	380719	9.26	ppb	98
13) (trans) 1,2-Dichloroet...	3.048	61	455388	10.12	ppb	99
14) Methyl t-Butyl Ether	3.048	73	480389	9.33	ppb	98
15) 1,1-Dichloroethane	3.398	63	562854	10.06	ppb	100
16) Vinyl Acetate	3.445	43	344750	8.62	ppb	98
17) 2,2-Dichloropropane	3.890	77	489835	11.27	ppb	98
18) (cis) 1,2-Dichloroethene	3.890	61	586274	10.43	ppb	99
19) 2-Butanone	3.899	43	59800	9.24	ppb	97
20) Bromochloromethane	4.085	130	157733	10.62	ppb	94
21) Chloroform	4.155	83	479271	10.24	ppb	99
22) 1,1,1-Trichloroethane	4.319	97	435955	10.24	ppb	99
24) Carbon Tetrachloride	4.459	117	404176	10.30	ppb	99
25) 1,1-Dichloropropene	4.459	75	386612	10.06	ppb	99
26) Benzene	4.631	78	1067478	9.93	ppb	99
27) 1,2-Dichloroethane	4.638	62	310301	10.07	ppb	100
29] Vinyl Chloride (SIM)	1.398	62	292897	9967.27	ppt	93
30] 1,1-Dichloroethene (SIM)	2.391	61	485111	10390.07	ppt	100
32) Trichloroethene	5.176	130	300489	10.14	ppb	100
33) 1,2-Dichloropropane	5.364	63	306337	9.60	ppb	100
34) Dibromomethane	5.465	174	120900	10.17	ppb	99
35) Bromodichloromethane	5.597	83	326052	9.83	ppb	99
36) 2-Chloroethyl Vinyl Ether	5.870	63	57552	5.81	ppb	99
37) (cis) 1,3-Dichloropropene	5.995	75	404511	9.94	ppb	100
38) Methyl Isobutyl Ketone	6.128	43	143682	9.23	ppb	99
40) Toluene	6.291	91	1117400	9.72	ppb	100

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101011.d
 Acq On : 1 Nov 2021 1:19 pm
 Operator :
 Sample : SBD1101W1
 Misc : V4-085-12/V4-084-18
 ALS Vial : 11 Sample Multiplier: 1

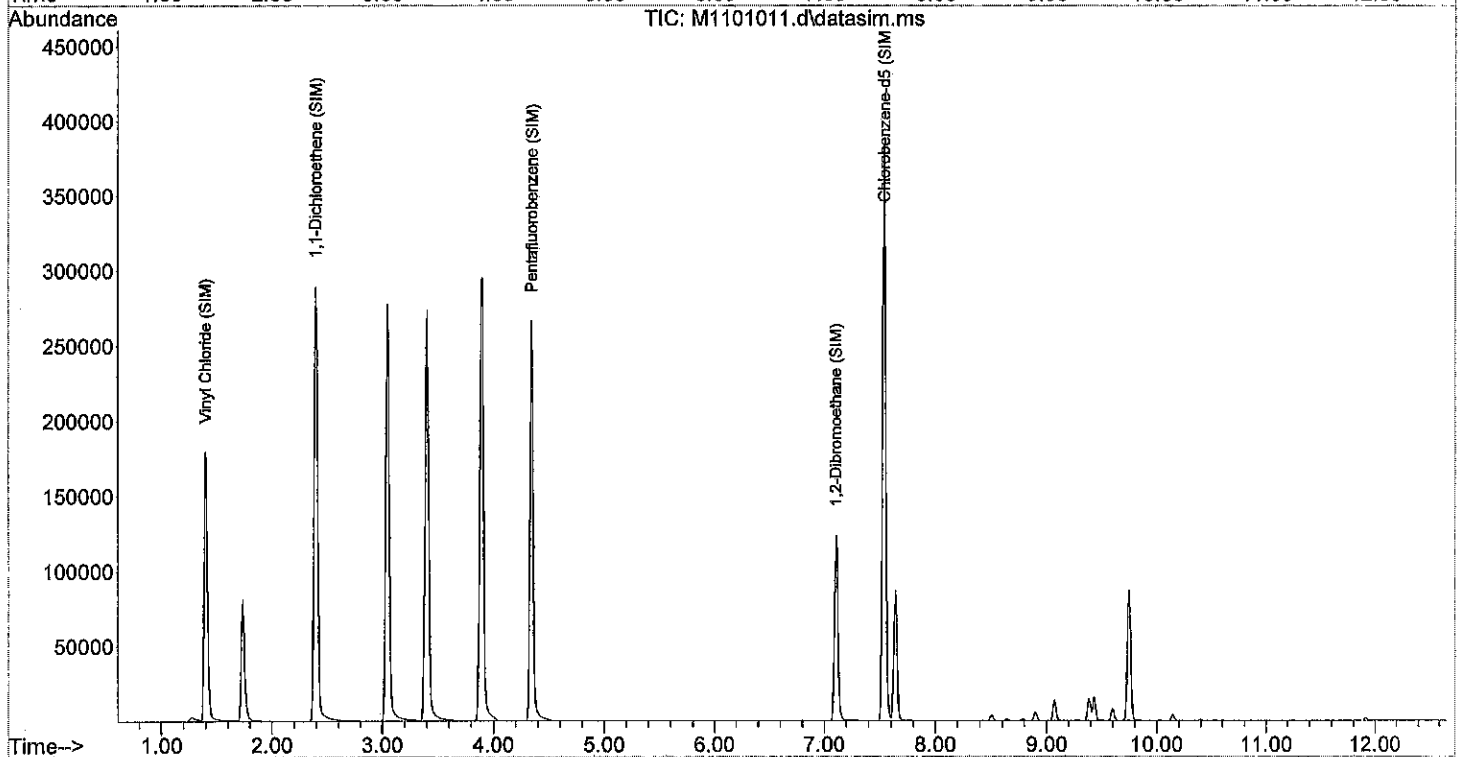
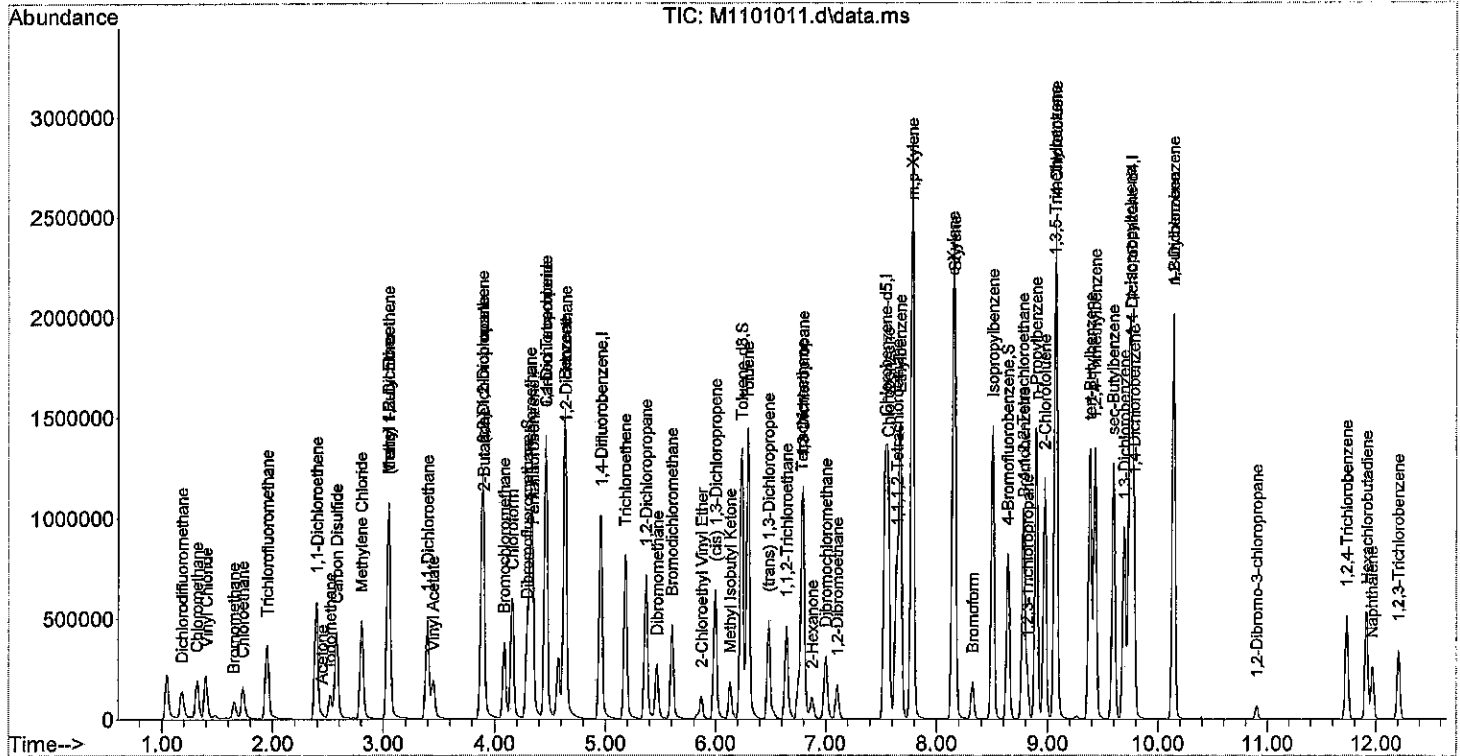
Quant Time: Nov 01 13:31:55 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) (trans) 1,3-Dichloropr...	6.479	75	292904	9.43	ppb	98
43) 1,1,2-Trichloroethane	6.642	97	152305	8.38	ppb	99
44) Tetrachloroethene	6.782	166	345644	9.61	ppb	98
45) 1,3-Dichloropropane	6.791	76	319724	9.40	ppb	99
46) 2-Hexanone	6.876	43	94202	9.04	ppb	98
47) Dibromochloromethane	6.999	129	205845	9.28	ppb	98
48) 1,2-Dibromoethane	7.104	107	144819	9.11	ppb	99
49) Chlorobenzene	7.561	112	677974	9.77	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.639	133	239575	9.39	ppb	99
51) Ethylbenzene	7.670	91	1213286	9.68	ppb	100
52) m,p-Xylene	7.779	91	1934344	19.17	ppb	100
53) o-Xylene	8.145	91	939397	9.51	ppb	100
54) Styrene	8.161	104	733467	9.51	ppb	100
55) Bromoform	8.325	173	102549	8.95	ppb	99
56) Isopropylbenzene	8.504	105	1148453	9.84	ppb	99
59) 1,2-Dibromoethane (SIM)	7.100	107	147960	9507.78	ppt	100
61) Bromobenzene	8.784	156	264200	9.42	ppb	99
62) 1,1,1,2-Tetrachloroethane	8.776	83	152484	8.77	ppb	97
63) 1,2,3-Trichloropropane	8.815	75	139735	8.72	ppb	# 100
64) n-Propylbenzene	8.893	91	1318234	9.40	ppb	100
65) 2-Chlorotoluene	8.971	126	262900	9.51	ppb	99
66) 4-Chlorotoluene	9.072	126	271415	9.54	ppb	99
67) 1,3,5-Trimethylbenzene	9.065	105	899714	9.50	ppb	100
68) tert-Butylbenzene	9.384	119	873075	9.36	ppb	99
69) 1,2,4-Trimethylbenzene	9.431	105	906292	9.47	ppb	100
70) sec-Butylbenzene	9.594	105	1050700	9.60	ppb	100
71) 1,3-Dichlorobenzene	9.695	146	480981	9.50	ppb	99
72) p-Isopropyltoluene	9.742	119	906123	9.55	ppb	100
73) 1,4-Dichlorobenzene	9.781	146	480161	9.62	ppb	99
74) 1,2-Dichlorobenzene	10.139	146	394986	9.49	ppb	100
75) n-Butylbenzene	10.139	91	793041	9.66	ppb	100
76) 1,2-Dibromo-3-chloropr...	10.903	157	20908	8.15	ppb	98
77) 1,2,4-Trichlorobenzene	11.729	180	192119	9.34	ppb	100
78) Hexachlorobutadiene	11.915	225	127723	9.95	ppb	99
79) Naphthalene	11.962	128	246171	8.52	ppb	100
80) 1,2,3-Trichlorobenzene	12.204	180	131004	9.53	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101011.d
 Acq On : 1 Nov 2021 1:19 pm
 Operator :
 Sample : SBD1101W1
 Misc : V4-085-12/V4-084-18
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 13:31:55 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	96	0.00
2	Dichlorodifluoromethane	10.000	10.757	-7.6	99	0.00
3	Chloromethane	10.000	9.554	4.5	90	0.00
4	Vinyl Chloride	10.000	10.229	-2.3	96	0.00
5	Bromomethane	10.000	9.760	2.4	113	0.00
6	Chloroethane	10.000	8.948	10.5	91	0.00
7	Trichlorofluoromethane	10.000	9.992	0.1	100	0.00
8	1,1-Dichloroethene	10.000	9.828	1.7	91	0.00
9	Acetone	10.000	9.082	9.2	97	0.00
10	Iodomethane	10.000	4.527	54.7#	41	0.00
11	Carbon Disulfide	10.000	8.683	13.2	85	0.00
12	Methylene Chloride	10.000	9.128	8.7	89	0.00
13	(trans) 1,2-Dichloroethene	10.000	9.797	2.0	92	0.00
14	Methyl t-Butyl Ether	10.000	9.001	10.0	88	0.00
15	1,1-Dichloroethane	10.000	9.673	3.3	91	0.00
16	Vinyl Acetate	10.000	8.067	19.3	78	0.00
17	2,2-Dichloropropane	10.000	10.816	-8.2	103	0.00
18	(cis) 1,2-Dichloroethene	10.000	10.092	-0.9	93	0.00
19	2-Butanone	10.000	8.953	10.5	89	0.00
20	Bromochloromethane	10.000	10.349	-3.5	92	0.00
21	Chloroform	10.000	9.856	1.4	93	0.00
22	1,1,1-Trichloroethane	10.000	9.844	1.6	93	0.00
23 S	Dibromofluoromethane	10.000	10.020	-0.2	97	0.00
24	Carbon Tetrachloride	10.000	9.827	1.7	94	0.00
25	1,1-Dichloropropene	10.000	9.758	2.4	92	0.00
26	Benzene	10.000	9.582	4.2	92	0.00
27	1,2-Dichloroethane	10.000	9.823	1.8	93	0.00
28	Pentafluorobenzene (SIM)	10000.000	10000.000	0.0	96	0.00
29	Vinyl Chloride (SIM)	10000.000	9670.711	3.3	95	0.00
30	1,1-Dichloroethene (SIM)	10000.000	10080.482	-0.8	92	0.00
31 I	1,4-Difluorobenzene	10.000	10.000	0.0	97	0.00
32	Trichloroethene	10.000	9.864	1.4	95	0.00
33	1,2-Dichloropropane	10.000	9.238	7.6	89	0.00
34	Dibromomethane	10.000	9.878	1.2	92	0.00
35	Bromodichloromethane	10.000	9.538	4.6	91	0.00
36	2-Chloroethyl Vinyl Ether	10.000	5.574	44.3#	56	0.00
37	(cis) 1,3-Dichloropropene	10.000	9.590	4.1	90	0.00
38	Methyl Isobutyl Ketone	10.000	8.847	11.5	88	0.00
39 S	Toluene-d8	10.000	10.070	-0.7	98	0.00
40	Toluene	10.000	9.432	5.7	92	0.00
41 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
42	(trans) 1,3-Dichloropropene	10.000	9.203	8.0	90	0.00
43	1,1,2-Trichloroethane	10.000	8.235	17.7	93	0.00
44	Tetrachloroethene	10.000	9.542	4.6	96	0.00
45	1,3-Dichloropropane	10.000	9.317	6.8	93	0.00

Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
46	2-Hexanone	10.000	8.857	11.4	88	0.00
47	Dibromochloromethane	10.000	9.192	8.1	92	0.00
48	1,2-Dibromoethane	10.000	8.946	10.5	91	0.00
49	Chlorobenzene	10.000	9.542	4.6	94	0.00
50	1,1,1,2-Tetrachloroethane	10.000	9.186	8.1	91	0.00
51	Ethylbenzene	10.000	9.479	5.2	92	0.00
52	m,p-Xylene	20.000	18.737	6.3	92	0.00
53	o-Xylene	10.000	9.322	6.8	93	0.00
54	Styrene	10.000	9.258	7.4	92	0.00
55	Bromoform	10.000	8.976	10.2	89	0.00
56	Isopropylbenzene	10.000	9.567	4.3	92	0.00
57 S	4-Bromofluorobenzene	10.000	9.939	0.6	99	0.00
58	Chlorobenzene-d5 (SIM)	10000.000	10000.000	0.0	101	0.00
59	1,2-Dibromoethane (SIM)	10000.000	9270.882	7.3	92	0.00
60 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	102	0.00
61	Bromobenzene	10.000	9.445	5.5	94	0.00
62	1,1,2,2-Tetrachloroethane	10.000	8.894	11.1	91	0.00
63	1,2,3-Trichloropropane	10.000	8.741	12.6	92	0.00
64	n-Propylbenzene	10.000	9.293	7.1	93	0.00
65	2-Chlorotoluene	10.000	9.550	4.5	94	0.00
66	4-Chlorotoluene	10.000	9.416	5.8	93	0.00
67	1,3,5-Trimethylbenzene	10.000	9.419	5.8	92	0.00
68	tert-Butylbenzene	10.000	9.191	8.1	93	0.00
69	1,2,4-Trimethylbenzene	10.000	9.239	7.6	92	0.00
70	sec-Butylbenzene	10.000	9.409	5.9	93	0.00
71	1,3-Dichlorobenzene	10.000	9.431	5.7	94	0.00
72	p-Isopropyltoluene	10.000	9.440	5.6	94	0.00
73	1,4-Dichlorobenzene	10.000	9.580	4.2	93	0.00
74	1,2-Dichlorobenzene	10.000	9.442	5.6	93	0.00
75	n-Butylbenzene	10.000	9.288	7.1	92	0.00
76	1,2-Dibromo-3-chloropropane	10.000	8.447	15.5	85	0.00
77	1,2,4-Trichlorobenzene	10.000	8.782	12.2	87	0.00
78	Hexachlorobutadiene	10.000	9.121	8.8	90	0.00
79	Naphthalene	10.000	7.903	21.0#	78	0.00
80	1,2,3-Trichlorobenzene	10.000	8.325	16.8	82	0.00

(#) = Out of Range

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

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	544798	10.00	ppb	0.00
28) Pentafluorobenzene (SIM)	4.340	168	559118	10000.00	ppt	0.00
31) 1,4-Difluorobenzene	4.958	114	911794	10.00	ppb	0.00
41) Chlorobenzene-d5	7.530	117	754490	10.00	ppb	0.00
58) Chlorobenzene-d5 (SIM)	7.536	117	773810	10000.00	ppt	0.00
60) 1,4-Dichlorobenzene-d4	9.758	152	324323	10.00	ppb	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	4.287	111	266808	10.02	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	100.20%	
39) Toluene-d8	6.237	98	1038531	10.07	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	100.70%	
57) 4-Bromofluorobenzene	8.636	95	330765	9.94	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	99.40%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.184	85	180744	10.76	ppb	99
3) Chloromethane	1.316	50	236004	9.55	ppb	99
4) Vinyl Chloride	1.392	62	285856	10.23	ppb	90
5) Bromomethane	1.647	96	61328	9.76	ppb	99
6) Chloroethane	1.732	64	161541	8.95	ppb	96
7) Trichlorofluoromethane	1.950	101	409995	9.99	ppb	99
8) 1,1-Dichloroethene	2.395	61	470251	9.83	ppb	100
9) Acetone	2.442	43	31053	9.08	ppb	# 87
10) Iodomethane	2.518	142	126306	4.53	ppb	98
11) Carbon Disulfide	2.574	76	654419	8.68	ppb	100
12) Methylene Chloride	2.802	49	387933	9.13	ppb	99
13) (trans) 1,2-Dichloroet...	3.038	61	455743	9.80	ppb	98
14) Methyl t-Butyl Ether	3.048	73	478876	9.00	ppb	99
15) 1,1-Dichloroethane	3.398	63	559199	9.67	ppb	99
16) Vinyl Acetate	3.445	43	333675	8.07	ppb	99
17) 2,2-Dichloropropane	3.890	77	486095	10.82	ppb	98
18) (cis) 1,2-Dichloroethene	3.890	61	586534	10.09	ppb	100
19) 2-Butanone	3.899	43	59919	8.95	ppb	100
20) Bromochloromethane	4.085	130	158925	10.35	ppb	95
21) Chloroform	4.155	83	476813	9.86	ppb	99
22) 1,1,1-Trichloroethane	4.319	97	433172	9.84	ppb	99
24) Carbon Tetrachloride	4.459	117	398699	9.83	ppb	100
25) 1,1-Dichloropropene	4.459	75	387847	9.76	ppb	99
26) Benzene	4.630	78	1064369	9.58	ppb	100
27) 1,2-Dichloroethane	4.638	62	313054	9.82	ppb	99
29] Vinyl Chloride (SIM)	1.397	62	292537	9670.71	ppt	93
30] 1,1-Dichloroethene (SIM)	2.391	61	484493	10080.48	ppt	100
32) Trichloroethene	5.176	130	301788	9.86	ppb	98
33) 1,2-Dichloropropane	5.363	63	304463	9.24	ppb	99
34) Dibromomethane	5.465	174	121309	9.88	ppb	99
35) Bromodichloromethane	5.597	83	326881	9.54	ppb	100
36) 2-Chloroethyl Vinyl Ether	5.870	63	57006	5.57	ppb	98
37) (cis) 1,3-Dichloropropene	5.995	75	402955	9.59	ppb	99
38) Methyl Isobutyl Ketone	6.128	43	142309	8.85	ppb	99
40) Toluene	6.291	91	1120580	9.43	ppb	100

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

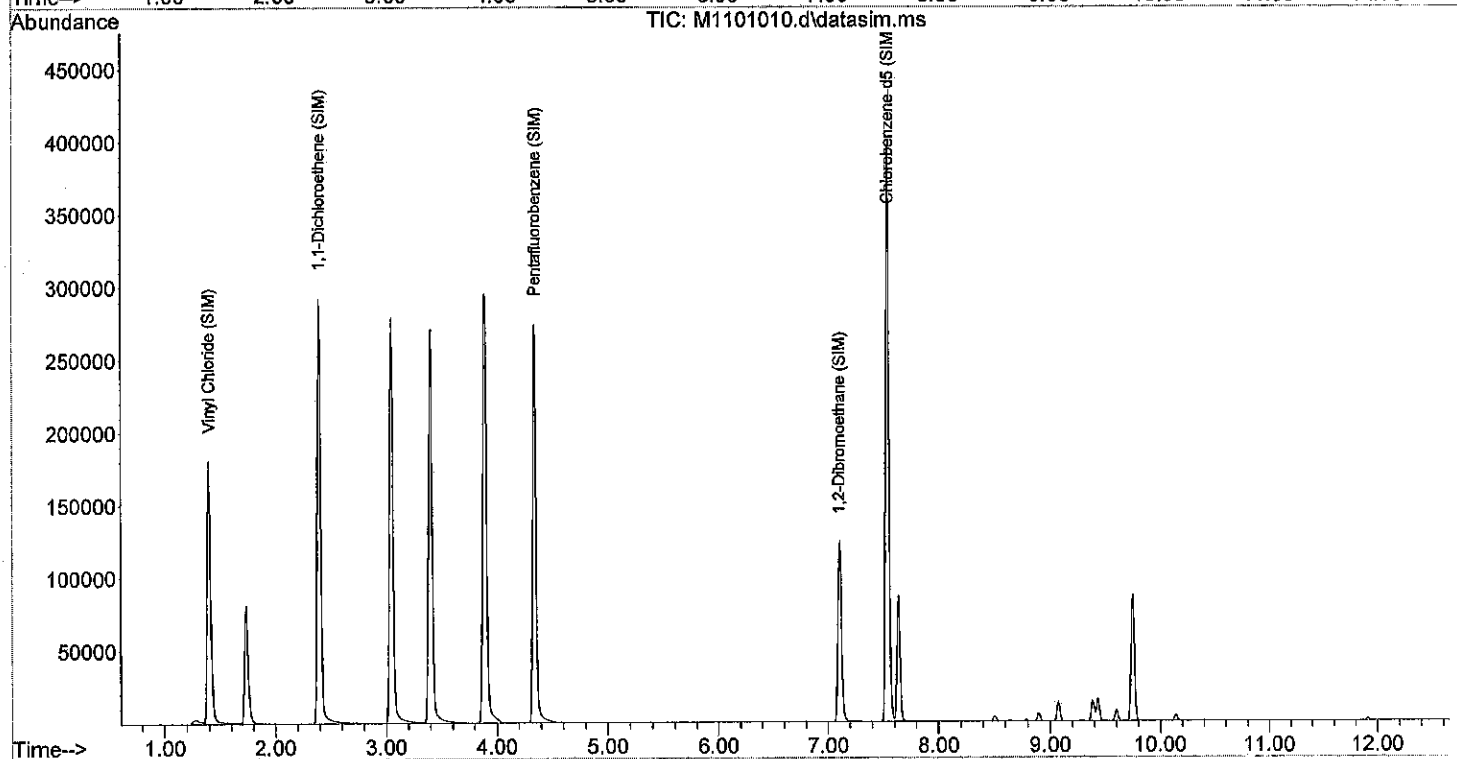
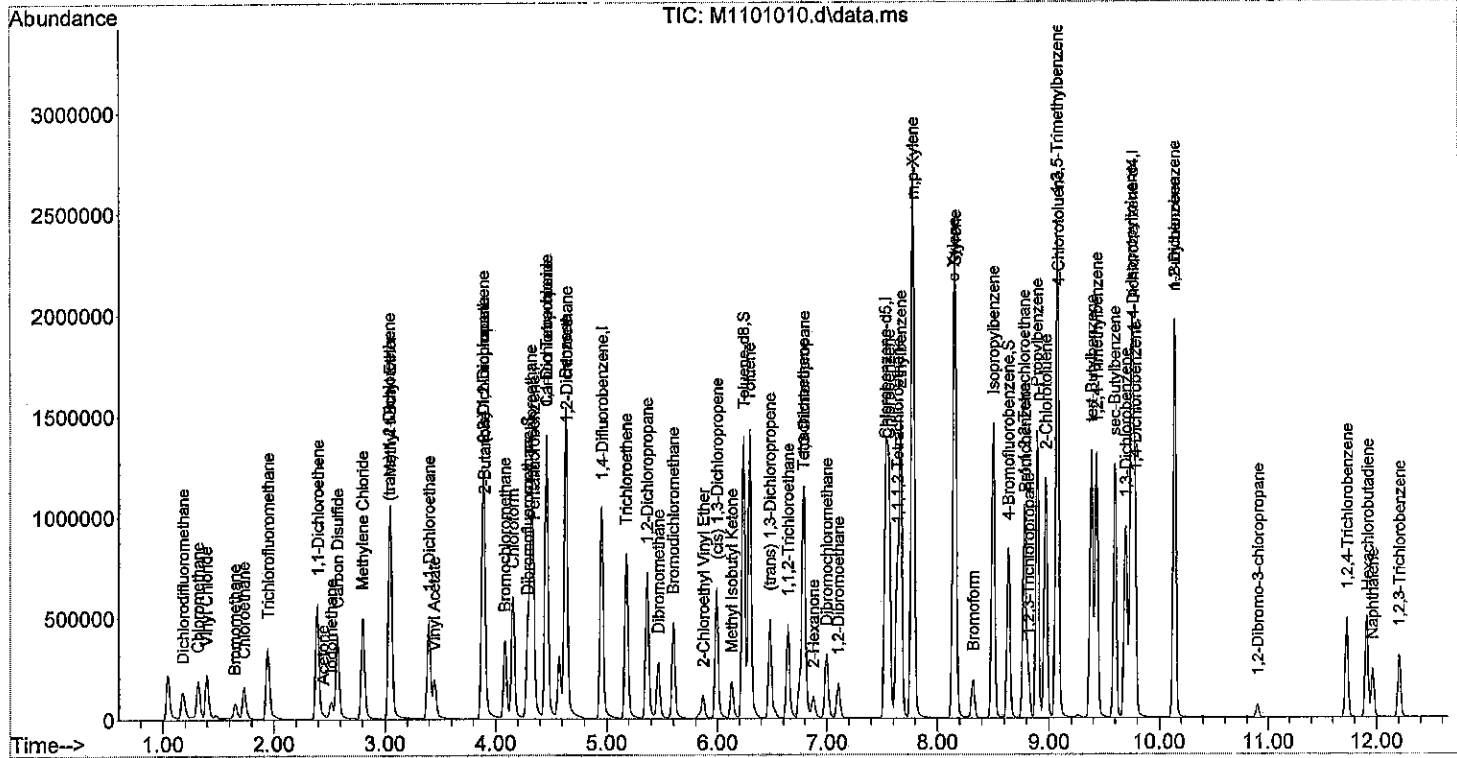
Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) (trans) 1,3-Dichloropr...	6.478	75	291313	9.20	ppb	99
43) 1,1,2-Trichloroethane	6.642	97	152546	8.23	ppb	97
44) Tetrachloroethene	6.781	166	349817	9.54	ppb	99
45) 1,3-Dichloropropane	6.791	76	323019	9.32	ppb	100
46) 2-Hexanone	6.876	43	94069	8.86	ppb	99
47) Dibromochloromethane	6.999	129	207912	9.19	ppb	98
48) 1,2-Dibromoethane	7.103	107	144887	8.95	ppb	100
49) Chlorobenzene	7.561	112	675164	9.54	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.639	133	238916	9.19	ppb	98
51) Ethylbenzene	7.670	91	1211356	9.48	ppb	100
52) m,p-Xylene	7.779	91	1927085	18.74	ppb	99
53) o-Xylene	8.145	91	938028	9.32	ppb	100
54) Styrene	8.161	104	728087	9.26	ppb	100
55) Bromoform	8.324	173	104845	8.98	ppb	98
56) Isopropylbenzene	8.503	105	1138482	9.57	ppb	99
59) 1,2-Dibromoethane (SIM)	7.100	107	148262	9270.88	ppt	100
61) Bromobenzene	8.784	156	265298	9.44	ppb	99
62) 1,1,2,2-Tetrachloroethane	8.776	83	155018	8.89	ppb	100
63) 1,2,3-Trichloropropane	8.815	75	140388	8.74	ppb	# 100
64) n-Propylbenzene	8.893	91	1305576	9.29	ppb	100
65) 2-Chlorotoluene	8.971	126	264406	9.55	ppb	100
66) 4-Chlorotoluene	9.080	126	268271	9.42	ppb	99
67) 1,3,5-Trimethylbenzene	9.072	105	893628	9.42	ppb	100
68) tert-Butylbenzene	9.384	119	859075	9.19	ppb	100
69) 1,2,4-Trimethylbenzene	9.430	105	885475	9.24	ppb	99
70) sec-Butylbenzene	9.594	105	1031313	9.41	ppb	100
71) 1,3-Dichlorobenzene	9.695	146	478267	9.43	ppb	100
72) p-Isopropyltoluene	9.742	119	897434	9.44	ppb	100
73) 1,4-Dichlorobenzene	9.781	146	478938	9.58	ppb	100
74) 1,2-Dichlorobenzene	10.139	146	393725	9.44	ppb	99
75) n-Butylbenzene	10.139	91	763739	9.29	ppb	99
76) 1,2-Dibromo-3-chloropr...	10.903	157	21721	8.45	ppb	93
77) 1,2,4-Trichlorobenzene	11.728	180	181005	8.78	ppb	100
78) Hexachlorobutadiene	11.915	225	117273	9.12	ppb	99
79) Naphthalene	11.962	128	228856	7.90	ppb	99
80) 1,2,3-Trichlorobenzene	12.204	180	114690	8.33	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101010.d
 Acq On : 1 Nov 2021 12:48 pm
 Operator :
 Sample : SB1101W1 (CCV1101W1)
 Misc : V4-085-12/V4-084-18
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 13:01:09 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211014WSHORTSIM.M
 Quant Title :
 QLast Update : Thu Oct 14 17:11:56 2021
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101009.d
 Acq On : 1 Nov 2021 12:21 pm
 Operator :
 Sample : ICV1101WH1
 Misc : V4-082-17
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 12:34:21 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	99	0.00
2	n-Hexane	10.000	10.044	-0.4	99	0.00
3 S	Dibromofluoromethane	10.000	10.393	-3.9	102	0.00
4 I	1,4-Difluorobenzene	10.000	10.000	0.0	101	0.00
5 S	Toluene-d8	10.000	10.053	-0.5	101	0.00
6 I	Chlorobenzene-d5	10.000	10.000	0.0	102	0.00
7 S	4-Bromofluorobenzene	10.000	10.053	-0.5	103	0.00
8 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	103	0.00

(#) = Out of Range

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

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
 Data File : M1101009.d
 Acq On : 1 Nov 2021 12:21 pm
 Operator :
 Sample : ICV1101WH1
 Misc : V4-082-17
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 12:34:21 2021
 Quant Method : C:\MSDCHEM\1\METHODS\M211101WH.M
 Quant Title :
 QLast Update : Mon Nov 01 11:43:33 2021
 Response via : Initial Calibration

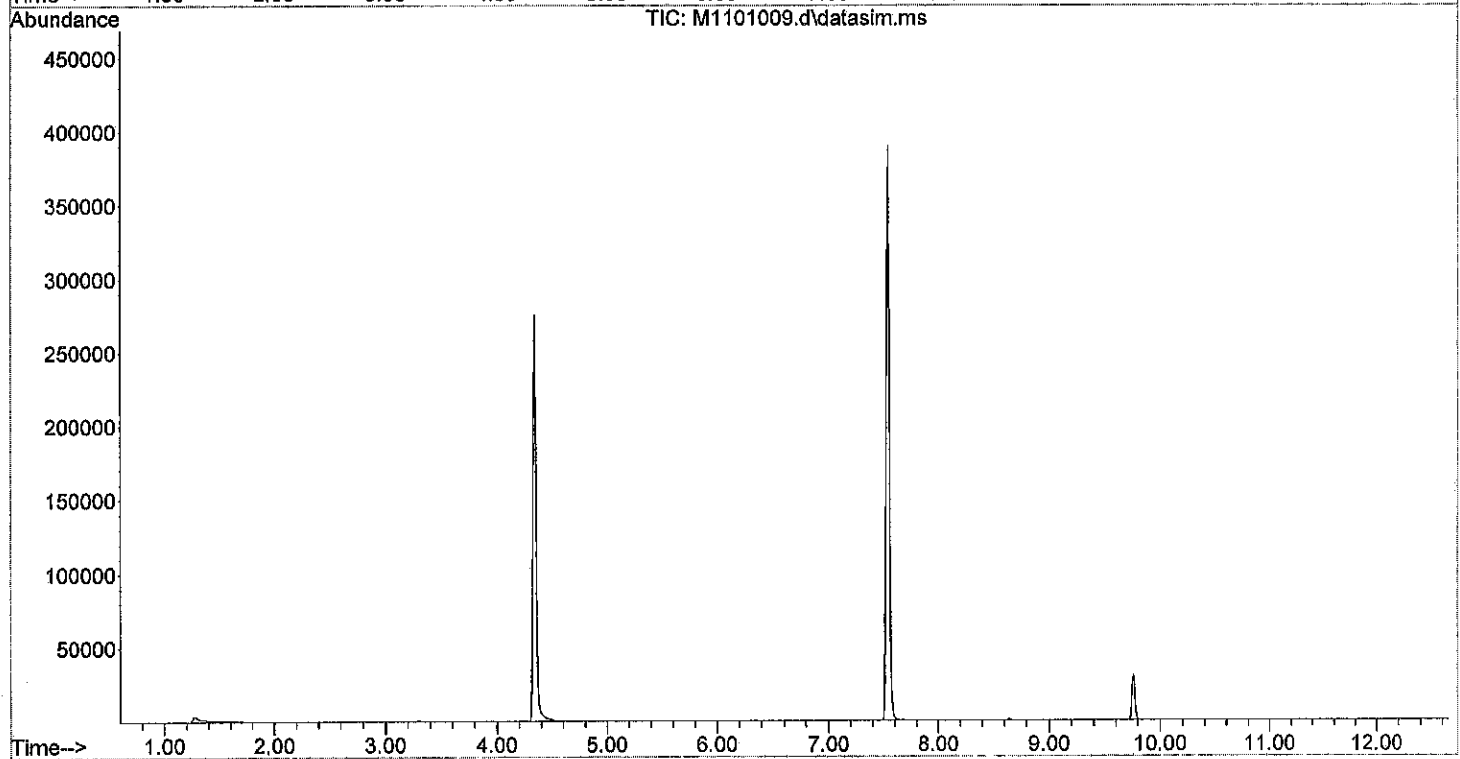
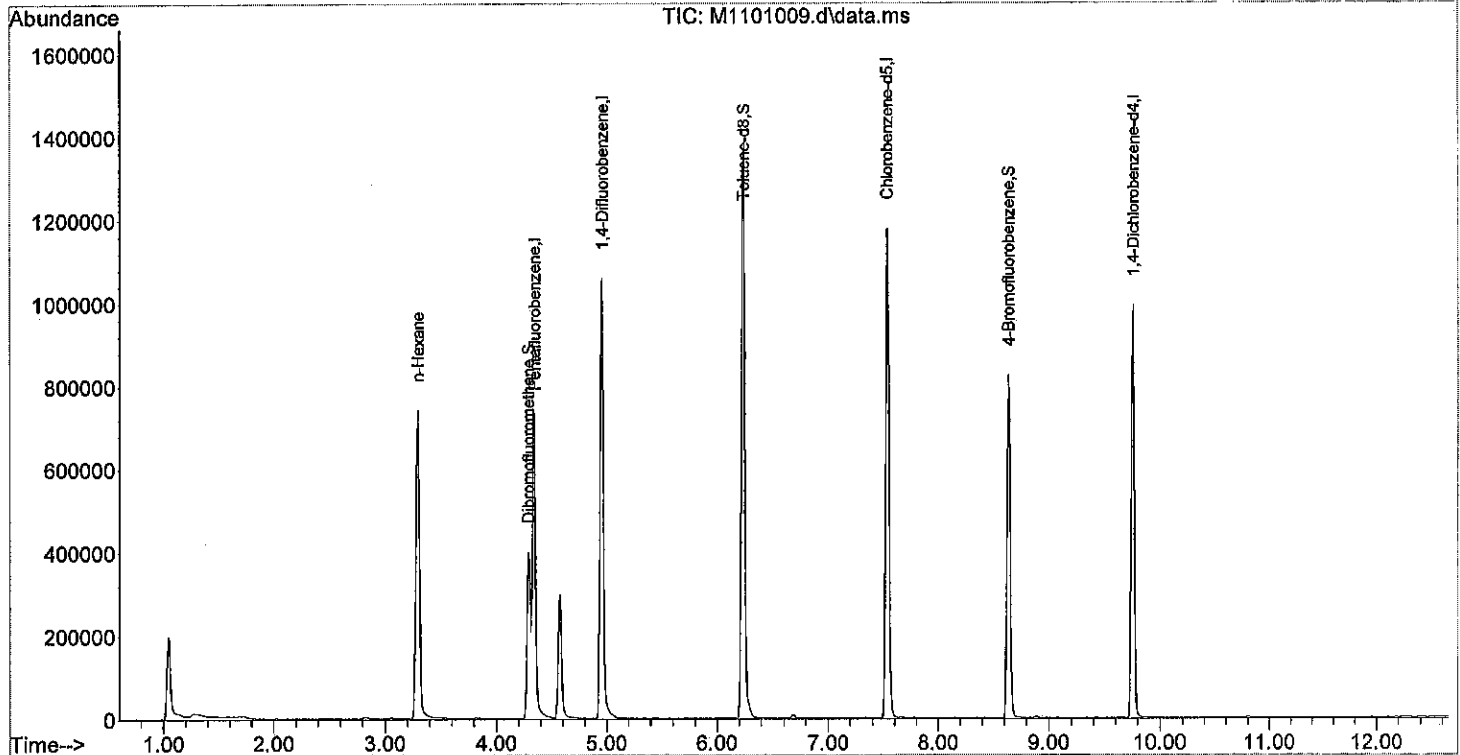
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.342	168	547234	10.00	ppb	0.00
4) 1,4-Difluorobenzene	4.958	114	914474	10.00	ppb	0.00
6) Chlorobenzene-d5	7.530	117	766513	10.00	ppb	0.00
8) 1,4-Dichlorobenzene-d4	9.758	152	320369	10.00	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.287	111	268460	10.39	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	103.90%		
5) Toluene-d8	6.237	98	1032034	10.05	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	100.50%		
7) 4-Bromofluorobenzene	8.636	95	327984	10.05	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	100.50%		
Target Compounds						
2) n-Hexane	3.294	57	436674	10.04	ppb	Qvalue 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M211101\
Data File : M1101009.d
Acq On : 1 Nov 2021 12:21 pm
Operator :
Sample : ICV1101WH1
Misc : V4-082-17
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 12:34:21 2021
Quant Method : C:\MSDCHEM\1\METHODS\M211101WH.M
Quant Title :
QLast Update : Mon Nov 01 11:43:33 2021
Response via : Initial Calibration



Total Metals
EPA 200.8/7470A Data

Report Generated By CETAC QuickTrace

Analyst: JBadger

Worksheet file: C:\Program Files\QuickTrace\Worksheets\11 November 2021\Y211101W1.wsz

Date Started: 11/1/2021 8:47:57 AM

Comment:

*KOM
11-4-21*

Results

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
Calibration Blank	STD	11/01/21 11:11:31 am	0.000	136	0.42	
Standard 0.01 ppb	STD	11/01/21 11:13:23 am	0.010	310	0.76	
Standard 0.05 ppb	STD	11/01/21 11:15:17 am	0.050	902	0.23	
Standard 0.5 ppb	STD	11/01/21 11:17:10 am	0.500	7979	4.55	
Standard 2.5 ppb	STD	11/01/21 11:19:04 am	2.500	38229	3.46	
Standard 5.0 ppb	STD	11/01/21 11:20:59 am	5.000	70944	3.97	

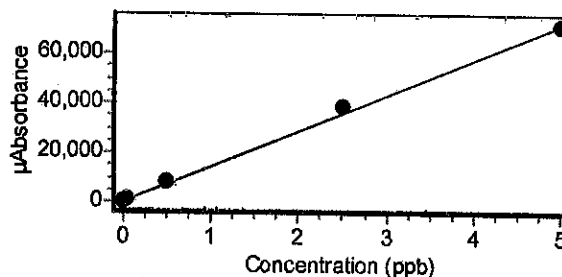
Calibration

Equation: $A = 135.669 + 14387.260C$

R2: 0.99835

SEE: 1438.9070

Flags:



ICV	ICV	11/01/21 11:22:55 am	2.643	38162	3.32	
% Recovery					105.72	
ICB	ICB	11/01/21 11:24:47 am	-0.005	60	16.91	
CCV	CCV	11/01/21 11:26:41 am	2.628	37945	4.08	
% Recovery					105.12	
CCB	CCB	11/01/21 11:28:33 am	-0.008	20	52.18	

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
MB1101W1	UNK	11/01/21 11:30:25 am	0.000	134	5.72	
SB1101W1	UNK	11/01/21 11:32:17 am	2.597	37499	3.13	
10-231-01c	UNK	11/01/21 11:34:10 am	-0.005	66	4.67	
10-231-01c D	UNK	11/01/21 11:36:03 am	0.003	175	2.66	
10-231-01c L	UNK	11/01/21 11:37:57 am	0.004	191	3.49	
10-231-01c MS	UNK	11/01/21 11:39:51 am	2.572	37134	2.41	
10-231-01c MSD	UNK	11/01/21 11:41:45 am	2.557	36923	4.54	
10-231-02c	UNK	11/01/21 11:43:40 am	-0.004	83	4.63	
10-231-03c	UNK	11/01/21 11:45:32 am	0.000	139	0.86	
10-231-04c	UNK	11/01/21 11:47:24 am	0.006	216	4.87	
CCV	CCV	11/01/21 11:49:18 am	2.602	37567	4.46	
% Recovery 104.07						
CCB	CCB	11/01/21 11:51:10 am	-0.008	19	56.82	
10-231-05c	UNK	11/01/21 11:53:03 am	0.000	134	1.80	
10-231-06c	UNK	11/01/21 11:54:56 am	0.003	175	3.46	
10-231-07c	UNK	11/01/21 11:56:49 am	0.003	176	4.40	
10-231-08c	UNK	11/01/21 11:58:43 am	0.004	197	4.75	
MB1101D1	UNK	11/01/21 12:00:38 pm	0.002	159	2.86	

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
SB1101D1	UNK	11/01/21 12:02:30 pm	2.648	38228	3.68	
10-231-01d	UNK	11/01/21 12:04:23 pm	-0.008	23	28.29	
10-231-01d D	UNK	11/01/21 12:06:15 pm	0.003	181	1.88	
10-231-01d L	UNK	11/01/21 12:08:10 pm	0.015	354	0.57	
10-231-01d MS	UNK	11/01/21 12:10:03 pm	2.727	39364	3.79	
CCV % Recovery 110.34	CCV	11/01/21 12:11:57 pm	2.759	39823	4.23	
CCB	CCB	11/01/21 12:13:49 pm	-0.006	49	12.90	
10-231-01d L	UNK	11/01/21 12:22:54 pm	0.006	215	2.16	
CCV	UNK	11/01/21 12:25:17 pm	2.699	38972	2.82	
CCB	UNK	11/01/21 12:27:09 pm	-0.008	24	12.73	
10-231-01d MSD	UNK	11/01/21 12:29:03 pm	2.686	38773	4.80	
10-231-02d	UNK	11/01/21 12:30:57 pm	0.000	132	17.40	
10-231-03d	UNK	11/01/21 12:32:52 pm	0.002	164	3.68	
10-231-04d	UNK	11/01/21 01:34:34 pm	0.002	169	6.74	
10-231-05d	UNK	11/01/21 01:36:27 pm	0.002	162	0.72	
10-231-06d	UNK	11/01/21 01:38:20 pm	0.005	209	1.75	
10-231-07d	UNK	11/01/21 01:40:13 pm	0.002	160	2.70	

Dataset Report

11-4-21
KDM

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X211029B\
 Report Date/Time: Thursday, November 04, 2021 06:13:52

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	10:44:36 Fri 29-Oc	Blank	C:\NexIONData_kmckinney\DataSet\X211029B\Blank.001	
	Standard 2	10:48:27 Fri 29-Oc	Standard #2	C:\NexIONData_kmckinney\DataSet\X211029B\Standard 2.002	
	Standard 3	10:52:19 Fri 29-Oc	Standard #3	C:\NexIONData_kmckinney\DataSet\X211029B\Standard 3.003	
	Standard 5	10:56:10 Fri 29-Oc	Standard #5	C:\NexIONData_kmckinney\DataSet\X211029B\Standard 5.004	
	Standard 6	11:00:01 Fri 29-Oc	Standard #6	C:\NexIONData_kmckinney\DataSet\X211029B\Standard 6.005	
	Standard 7	11:03:52 Fri 29-Oc	Standard #7	C:\NexIONData_kmckinney\DataSet\X211029B\Standard 7.006	
	QC Std 1	11:08:33 Fri 29-Oc	QC Std #1	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 1.007	
	QC Std 2	11:13:15 Fri 29-Oc	QC Std #2	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 2.008	
	QC Std 6	11:17:07 Fri 29-Oc	QC Std #6	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.009	
	QC Std 7	11:21:48 Fri 29-Oc	QC Std #7	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.010	
	QC Std 8	11:26:29 Fri 29-Oc	QC Std #8	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.011	
	MB1029WM1 2X	11:30:20 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\MB1029WM1 2X.012	
	SB1029WM1 2X	11:35:01 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\SB1029WM1 2X.013	
	10-210-07b 2X	11:39:42 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07b 2X.014	
	10-210-07bD 2X	11:44:21 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bD 2X.015	
	10-210-07bL 10X	11:49:02 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bL 10X.016	
	10-210-07bMS 2X	11:53:42 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bMS 2X.017	
	10-210-07bMSD 2X	11:58:22 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bMSD 2X.018	
	10-210-07bPS 2X	12:03:04 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bPS 2X.019	
	QC Std 6	12:07:45 Fri 29-Oc	QC Std #6	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.020	
	QC Std 7	12:12:26 Fri 29-Oc	QC Std #7	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.021	
	QC Std 8	12:17:07 Fri 29-Oc	QC Std #8	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.022	
	10-244-01a 2X	12:21:52 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-244-01a 2X.023	
	10-244-02a 2X	12:26:34 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-244-02a 2X.024	
	10-264-01a 2X	12:31:15 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-264-01a 2X.025	
	10-276-01c 2X	12:35:56 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-276-01c 2X.026	
	BL	12:40:55 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\BL.027	
	QC Std 6	12:45:37 Fri 29-Oc	QC Std #6	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.028	
	QC Std 7	12:50:18 Fri 29-Oc	QC Std #7	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.029	
	QC Std 8	12:54:59 Fri 29-Oc	QC Std #8	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.030	
	10-231-01c 2X	13:03:00 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-01c 2X.031	
	10-231-02c 2X	13:07:41 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-02c 2X.032	
	10-231-03c 2X	13:12:20 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-03c 2X.033	
	10-231-04c 2X	13:17:01 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-04c 2X.034	
	10-231-05c 2X	13:21:41 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-05c 2X.035	
	10-231-06c 2X	13:26:20 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-06c 2X.036	
	10-231-07c 2X	13:31:01 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-07c 2X.037	
	10-231-08c 2X	13:35:42 Fri 29-Oc	Sample	C:\NexIONData_kmckinney\DataSet\X211029B\10-231-08c 2X.038	
	QC Std 6	13:40:22 Fri 29-Oc	QC Std #6	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.039	
	QC Std 7	13:45:03 Fri 29-Oc	QC Std #7	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.040	
	QC Std 8	13:49:44 Fri 29-Oc	QC Std #8	C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.041	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, October 29, 2021 10:44:36

Report Date/Time: Thursday, November 04, 2021 06:11:54

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\Blank.001

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	513504.6	0.6				ug/L		Standard
|	Ho	165	523668.3	0.8				ug/L		Standard
|	Pb	208	535.7	6.2				ug/L		Standard
|	Bi	209	317932.3	0.5				ug/L		Standard
|	Th	232	444354.1	0.6				ug/L		Standard
[	Cr-1	52	48.0	10.8				ug/L		KED
|	Cr-1	53	4.0	66.1				ug/L		KED
[>	Ge-1	72	8705.0	0.5				ug/L		KED
|	As-2	75	1.0	0.0				ug/L		KED
|	Y-1	89	15608.2	1.3				ug/L		KED
|	Rh-1	103	94968.3	1.1				ug/L		KED
[	Cd-1	111	2.7	94.4				ug/L		KED
|	Cd-1	114	1.1	169.2				ug/L		KED
[>	In-1	115	9736.6	1.8				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, October 29, 2021 10:48:27

Report Date/Time: Thursday, November 04, 2021 06:11:56

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\Standard 2.002

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	498886.8	0.6				ug/L	513505	Standard
|	Ho	165	509028.8	0.1				ug/L	523668	Standard
|	Pb	208	20435.4	0.8	0.5000	0.006	1.2	ug/L	536	Standard
|	Bi	209	309894.9	0.5				ug/L	317932	Standard
|	Th	232	434953.2	1.0				ug/L	444354	Standard
[	Cr-1	52	547.3	5.2	0.5000	0.036	7.3	ug/L	48	KED
|	Cr-1	53	66.7	14.2	0.5000	0.081	16.3	ug/L	4	KED
[>	Ge-1	72	8403.1	1.4				ug/L	8705	KED
|	As-2	75	26.0	20.0	0.5000	0.098	19.7	ug/L	1	KED
|	Y-1	89	15207.4	0.8				ug/L	15608	KED
|	Rh-1	103	93476.5	1.2				ug/L	94968	KED
[	Cd-1	111	106.0	8.6	0.5000	0.046	9.2	ug/L	3	KED
|	Cd-1	114	261.2	1.7	0.5000	0.010	2.0	ug/L	1	KED
[>	In-1	115	9506.7	0.5				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, October 29, 2021 10:52:19

Report Date/Time: Thursday, November 04, 2021 06:11:58

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\Standard 3.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	491440.2	1.5				ug/L	513505	Standard
|	Ho	165	499752.7	0.7				ug/L	523668	Standard
|	Pb	208	75760.4	0.6	1.9950	0.029	1.5	ug/L	536	Standard
|	Bi	209	310236.8	0.0				ug/L	317932	Standard
|	Th	232	426579.6	0.4				ug/L	444354	Standard
[	Cr-1	52	1945.1	1.9	1.9952	0.060	3.0	ug/L	48	KED
|	Cr-1	53	223.3	4.5	1.9848	0.085	4.3	ug/L	4	KED
[>	Ge-1	72	8284.4	1.1				ug/L	8705	KED
|	As-2	75	94.3	12.1	1.9935	0.249	12.5	ug/L	1	KED
|	Y-1	89	15024.9	0.4				ug/L	15608	KED
|	Rh-1	103	91352.5	0.2				ug/L	94968	KED
[	Cd-1	111	392.3	6.8	1.9934	0.097	4.9	ug/L	3	KED
|	Cd-1	114	997.6	1.7	1.9955	0.043	2.1	ug/L	1	KED
[>	In-1	115	9457.0	2.1				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, October 29, 2021 10:56:10

Report Date/Time: Thursday, November 04, 2021 06:11:59

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\Standard 5.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	484569.0	0.6				ug/L	513505	Standard
|	Ho	165	495817.9	0.5				ug/L	523668	Standard
|	Pb	208	734435.2	0.7	19.9971	0.219	1.1	ug/L	536	Standard
|	Bi	209	304765.3	0.7				ug/L	317932	Standard
|	Th	232	425874.3	0.8				ug/L	444354	Standard
[	Cr-1	52	18610.4	1.0	19.9942	0.311	1.6	ug/L	48	KED
|	Cr-1	53	2278.2	2.5	20.0054	0.426	2.1	ug/L	4	KED
[>	Ge-1	72	8299.1	0.5				ug/L	8705	KED
|	As-2	75	916.7	5.5	19.9947	1.092	5.5	ug/L	1	KED
|	Y-1	89	14952.2	0.4				ug/L	15608	KED
|	Rh-1	103	91214.3	0.2				ug/L	94968	KED
[	Cd-1	111	3771.5	1.0	19.9979	0.083	0.4	ug/L	3	KED
|	Cd-1	114	9661.8	1.0	19.9985	0.144	0.7	ug/L	1	KED
[>	In-1	115	9212.0	0.6				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, October 29, 2021 11:00:01

Report Date/Time: Thursday, November 04, 2021 06:12:01

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\Standard 6.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	489457.0	1.8				ug/L	513505	Standard
|	Ho	165	496534.8	0.8				ug/L	523668	Standard
|	Pb	208	1480693.9	0.9	39.9868	0.833	2.1	ug/L	536	Standard
|	Bi	209	308728.3	0.5				ug/L	317932	Standard
|	Th	232	432026.2	0.7				ug/L	444354	Standard
[	Cr-1	52	37444.7	0.0	40.0919	0.661	1.6	ug/L	48	KED
|	Cr-1	53	4531.4	1.8	40.0009	0.705	1.8	ug/L	4	KED
[>	Ge-1	72	8263.1	1.7				ug/L	8705	KED
|	As-2	75	1853.8	2.5	40.1258	0.612	1.5	ug/L	1	KED
|	Y-1	89	14988.2	0.7				ug/L	15608	KED
|	Rh-1	103	90902.0	0.3				ug/L	94968	KED
[	Cd-1	111	7608.0	0.6	40.0029	0.690	1.7	ug/L	3	KED
|	Cd-1	114	19496.7	0.5	40.0031	0.492	1.2	ug/L	1	KED
[>	In-1	115	9291.5	1.1				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, October 29, 2021 11:03:52

Report Date/Time: Thursday, November 04, 2021 06:12:04

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\Standard 7.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	504034.7	0.4				ug/L	513505	Standard
|	Ho	165	514098.7	0.9				ug/L	523668	Standard
|	Pb	208	3668160.2	0.6	99.3436	0.428	0.4	ug/L	536	Standard
|	Bi	209	313740.7	0.2				ug/L	317932	Standard
|	Th	232	444932.2	0.9				ug/L	444354	Standard
[	Cr-1	52	92771.3	1.0	99.7185	1.331	1.3	ug/L	48	KED
|	Cr-1	53	11237.4	0.4	99.6942	1.239	1.2	ug/L	4	KED
[>	Ge-1	72	8351.4	1.0				ug/L	8705	KED
|	As-2	75	4443.0	0.6	99.1644	1.614	1.6	ug/L	1	KED
|	Y-1	89	15247.8	0.9				ug/L	15608	KED
|	Rh-1	103	91892.6	1.1				ug/L	94968	KED
[	Cd-1	111	18443.6	0.8	99.3356	0.838	0.8	ug/L	3	KED
|	Cd-1	114	47890.3	0.8	99.5581	0.782	0.8	ug/L	1	KED
[>	In-1	115	9372.1	0.1				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, October 29, 2021 11:08:33

Report Date/Time: Thursday, November 04, 2021 06:12:06

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 1.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	536914.7	0.4				ug/L	513505	Standard
|	Ho	165	549306.0	0.3				ug/L	523668	Standard
|	Pb	208	2074064.2	0.2	52.7255	0.317	0.6	ug/L	536	Standard
|	Bi	209	336070.2	0.7				ug/L	317932	Standard
|	Th	232	476523.6	0.2				ug/L	444354	Standard
[	Cr-1	52	51746.6	0.3	51.1285	0.738	1.4	ug/L	48	KED
|	Cr-1	53	6326.7	1.8	51.5999	1.073	2.1	ug/L	4	KED
[>	Ge-1	72	9081.6	1.2				ug/L	8705	KED
|	As-2	75	2441.5	1.8	50.1079	1.524	3.0	ug/L	1	KED
|	Y-1	89	16495.2	0.7				ug/L	15608	KED
|	Rh-1	103	98444.1	1.1				ug/L	94968	KED
[	Cd-1	111	10377.1	0.6	51.2207	0.370	0.7	ug/L	3	KED
|	Cd-1	114	26711.6	1.2	50.8941	0.219	0.4	ug/L	1	KED
[>	In-1	115	10225.4	0.7				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		104.559
|	Ho	165		
|	Pb	208	105.451	
|	Bi	209		
|	Th	232		
[	Cr-1	52	102.257	
|	Cr-1	53	103.200	
[>	Ge-1	72		104.326
|	As-2	75	100.216	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	102.441	
|	Cd-1	114	101.788	
[>	In-1	115		105.021

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, October 29, 2021 11:13:15

Report Date/Time: Thursday, November 04, 2021 06:12:09

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 2.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	493284.1	0.4				ug/L	513505	Standard
|	Ho	165	499124.9	1.2				ug/L	523668	Standard
|	Pb	208	567.7	1.3	0.0015	0.000	16.2	ug/L	536	Standard
|	Bi	209	305725.8	0.5				ug/L	317932	Standard
|	Th	232	423859.8	0.5				ug/L	444354	Standard
[	Cr-1	52	37.3	17.2	-0.0099	0.007	71.6	ug/L	48	KED
|	Cr-1	53	6.3	24.1	0.0214	0.013	62.3	ug/L	4	KED
[>	Ge-1	72	8472.5	1.4				ug/L	8705	KED
|	As-2	75	2.3	24.7	0.0299	0.012	41.7	ug/L	1	KED
|	Y-1	89	15495.7	1.2				ug/L	15608	KED
|	Rh-1	103	92637.4	0.9				ug/L	94968	KED
[	Cd-1	111	3.3	17.3	0.0037	0.003	90.7	ug/L	3	KED
|	Cd-1	114	1.8	54.6	0.0016	0.002	132.7	ug/L	1	KED
[>	In-1	115	9616.9	1.8				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		96.062
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		97.329
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		98.771

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, October 29, 2021 11:17:07

Report Date/Time: Thursday, November 04, 2021 06:12:12

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	486178.5	0.8				ug/L	513505	Standard
|	Ho	165	495522.6	0.9				ug/L	523668	Standard
|	Pb	208	1461575.8	0.3	41.0302	0.287	0.7	ug/L	536	Standard
|	Bi	209	307018.5	0.7				ug/L	317932	Standard
|	Th	232	429359.8	0.3				ug/L	444354	Standard
[	Cr-1	52	36989.5	1.1	39.8804	1.078	2.7	ug/L	48	KED
|	Cr-1	53	4476.4	2.0	39.8312	0.555	1.4	ug/L	4	KED
[>	Ge-1	72	8322.4	2.2				ug/L	8705	KED
|	As-2	75	1830.8	2.8	40.9833	0.241	0.6	ug/L	1	KED
|	Y-1	89	15141.4	1.6				ug/L	15608	KED
|	Rh-1	103	90383.7	1.7				ug/L	94968	KED
[	Cd-1	111	7670.7	0.6	40.7557	0.556	1.4	ug/L	3	KED
|	Cd-1	114	19465.4	0.3	39.9249	0.330	0.8	ug/L	1	KED
[>	In-1	115	9499.3	0.9				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		94.679
|	Ho	165		
|	Pb	208	102.576	
|	Bi	209		
|	Th	232		
[	Cr-1	52	99.701	
|	Cr-1	53	99.578	
[>	Ge-1	72		95.605
|	As-2	75	102.458	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	101.889	
|	Cd-1	114	99.812	
[>	In-1	115		97.563

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, October 29, 2021 11:21:48

Report Date/Time: Thursday, November 04, 2021 06:12:16

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Tb	159	478584.8	0.9				ug/L	513505	Standard
|	Ho	165	488655.0	1.2				ug/L	523668	Standard
|	Pb	208	723575.0	0.8	20.6275	0.122	0.6	ug/L	536	Standard
|	Bi	209	300012.8	1.2				ug/L	317932	Standard
|	Th	232	421276.7	0.4				ug/L	444354	Standard
|	Cr-1	52	18365.1	0.5	19.7964	0.404	2.0	ug/L	48	KED
|	Cr-1	53	2278.2	2.1	20.2804	0.391	1.9	ug/L	4	KED
>	Ge-1	72	8311.8	1.7				ug/L	8705	KED
|	As-2	75	913.4	2.4	20.4629	0.289	1.4	ug/L	1	KED
|	Y-1	89	15078.0	0.8				ug/L	15608	KED
|	Rh-1	103	89624.3	0.9				ug/L	94968	KED
|	Cd-1	111	3791.2	0.5	20.2594	0.189	0.9	ug/L	3	KED
|	Cd-1	114	9659.9	1.0	19.9331	0.026	0.1	ug/L	1	KED
>	In-1	115	9441.4	1.1				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Tb	159		93.200
|	Ho	165		
|	Pb	208	103.137	
|	Bi	209		
|	Th	232		
|	Cr-1	52	98.992	
|	Cr-1	53	101.402	
>	Ge-1	72		95.483
|	As-2	75	102.315	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	101.297	
|	Cd-1	114	99.665	
>	In-1	115		96.968

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, October 29, 2021 11:26:29

Report Date/Time: Thursday, November 04, 2021 06:12:18

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	491620.8	0.3				ug/L	513505	Standard
|	Ho	165	501798.5	0.6				ug/L	523668	Standard
|	Pb	208	526.3	2.5	0.0004	0.000	104.5	ug/L	536	Standard
|	Bi	209	306319.6	0.3				ug/L	317932	Standard
|	Th	232	426651.5	1.1				ug/L	444354	Standard
[	Cr-1	52	47.0	13.3	-0.0007	0.006	835.8	ug/L	48	KED
|	Cr-1	53	5.7	10.2	0.0145	0.004	28.3	ug/L	4	KED
] >	Ge-1	72	8632.9	1.9				ug/L	8705	KED
|	As-2	75	1.0	173.2	-0.0001	0.037	26130.2	ug/L	1	KED
|	Y-1	89	15600.5	1.4				ug/L	15608	KED
|	Rh-1	103	93471.8	0.6				ug/L	94968	KED
[	Cd-1	111	2.3	65.5	-0.0019	0.008	413.2	ug/L	3	KED
|	Cd-1	114	4.6	66.3	0.0071	0.006	86.0	ug/L	1	KED
] >	In-1	115	9800.4	1.2				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		95.738
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
] >	Ge-1	72		99.172
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
] >	In-1	115		100.655

Quantitative Analysis - Summary Report

Sample ID: MB1029WM1 2X

Sample Date/Time: Friday, October 29, 2021 11:30:20

Report Date/Time: Thursday, November 04, 2021 06:12:21

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\MB1029WM1 2X.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Tb	159	465149.7	0.8				ug/L	513505	Standard
|	Ho	165	473715.7	1.8				ug/L	523668	Standard
|	Pb	208	382.3	5.4	-0.0030	0.001	21.5	ug/L	538	Standard
|	Bi	209	290548.1	1.0				ug/L	317932	Standard
|	Th	232	405889.4	0.4				ug/L	444354	Standard
|	Cr-1	52	51.3	6.0	0.0063	0.003	44.0	ug/L	48	KED
|	Cr-1	53	5.0	34.6	0.0107	0.015	138.5	ug/L	4	KED
>	Ge-1	72	8260.7	1.4				ug/L	8705	KED
|	As-2	75	1.0	100.0	0.0013	0.023	1694.0	ug/L	1	KED
|	Y-1	89	14880.7	1.2				ug/L	15608	KED
|	Rh-1	103	89143.3	0.4				ug/L	94968	KED
|	Cd-1	111	2.0	173.2	-0.0031	0.019	591.5	ug/L	3	KED
|	Cd-1	114	4.4	73.0	0.0071	0.007	94.4	ug/L	1	KED
>	In-1	115	9396.0	1.6				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Tb	159		90.583
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		94.896
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
>	In-1	115		96.502

Quantitative Analysis - Summary Report

Sample ID: SB1029WM1 2X

Sample Date/Time: Friday, October 29, 2021 11:35:01

Report Date/Time: Thursday, November 04, 2021 06:12:23

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\SB1029WM1 2X.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	480176.4	0.7				ug/L	513505	Standard
|	Ho	165	487146.4	0.4				ug/L	523668	Standard
|	Pb	208	1795722.3	0.6	51.0429	0.243	0.5	ug/L	536	Standard
|	Bi	209	302769.9	0.7				ug/L	317932	Standard
|	Th	232	424297.5	0.3				ug/L	444354	Standard
[	Cr-1	52	46322.3	1.2	48.5201	1.071	2.2	ug/L	48	KED
|	Cr-1	53	5681.8	1.4	49.1246	0.964	2.0	ug/L	4	KED
[>	Ge-1	72	8567.2	1.9				ug/L	8705	KED
|	As-2	75	2275.2	1.3	49.4899	0.575	1.2	ug/L	1	KED
|	Y-1	89	15361.6	1.0				ug/L	15608	KED
|	Rh-1	103	91284.8	1.7				ug/L	94968	KED
[	Cd-1	111	9689.0	1.6	50.3798	0.686	1.4	ug/L	3	KED
|	Cd-1	114	24493.3	1.2	49.1642	0.479	1.0	ug/L	1	KED
[>	In-1	115	9706.5	1.0				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		93.510
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		98.418
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		99.691

Quantitative Analysis - Summary Report

Sample ID: 10-210-07b 2X

Sample Date/Time: Friday, October 29, 2021 11:39:42

Report Date/Time: Thursday, November 04, 2021 06:12:25

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07b 2X.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Tb	159	460607.7	0.8				ug/L	513505	Standard
|	Ho	165	469312.8	0.5				ug/L	523668	Standard
|	Pb	208	3573.2	1.3	0.0917	0.002	2.3	ug/L	536	Standard
|	Bi	209	276361.3	0.7				ug/L	317932	Standard
|	Th	232	405541.1	1.1				ug/L	444354	Standard
|	Cr-1	52	295.0	3.9	0.2841	0.019	6.8	ug/L	48	KED
|	Cr-1	53	34.7	29.0	0.2900	0.098	33.9	ug/L	4	KED
>	Ge-1	72	7947.9	2.0				ug/L	8705	KED
|	As-2	75	22.7	14.2	0.5113	0.085	16.5	ug/L	1	KED
|	Y-1	89	14064.5	0.7				ug/L	15608	KED
|	Rh-1	103	85020.9	0.7				ug/L	94968	KED
|	Cd-1	111	3.7	15.7	0.0064	0.003	50.1	ug/L	3	KED
|	Cd-1	114	4.0	23.4	0.0063	0.002	32.0	ug/L	1	KED
>	In-1	115	9159.5	0.7				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Tb	159		89.699
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		91.303
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
>	In-1	115		94.073

Quantitative Analysis - Summary Report

Sample ID: 10-210-07bD 2X

Sample Date/Time: Friday, October 29, 2021 11:44:21

Report Date/Time: Thursday, November 04, 2021 06:12:28

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bD 2X.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	461471.4	0.3				ug/L	513505	Standard
|	Ho	165	474544.5	0.7				ug/L	523668	Standard
|	Pb	208	3789.9	2.4	0.0979	0.003	2.7	ug/L	536	Standard
|	Bi	209	280583.3	0.2				ug/L	317932	Standard
|	Th	232	407706.8	0.6				ug/L	444354	Standard
[	Cr-1	52	351.3	9.7	0.3469	0.044	12.6	ug/L	48	KED
|	Cr-1	53	47.3	6.1	0.4065	0.033	8.2	ug/L	4	KED
[>	Ge-1	72	7967.9	1.6				ug/L	8705	KED
|	As-2	75	26.7	31.2	0.6006	0.184	30.6	ug/L	1	KED
|	Y-1	89	14751.6	0.6				ug/L	15608	KED
|	Rh-1	103	85266.4	0.9				ug/L	94968	KED
[	Cd-1	111	2.0	100.0	-0.0030	0.011	350.3	ug/L	3	KED
|	Cd-1	114	3.4	40.8	0.0050	0.003	59.3	ug/L	1	KED
[>	In-1	115	9282.4	2.0				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		89.867
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		91.532
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		95.336

Quantitative Analysis - Summary Report

Sample ID: 10-210-07bL 10X

Sample Date/Time: Friday, October 29, 2021 11:49:02

Report Date/Time: Thursday, November 04, 2021 06:12:30

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bL 10X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	478467.1	1.0				ug/L	513505	Standard
|	Ho	165	490360.6	0.4				ug/L	523668	Standard
|	Pb	208	1174.0	2.6	0.0193	0.001	5.5	ug/L	536	Standard
|	Bi	209	299019.2	0.9				ug/L	317932	Standard
|	Th	232	420630.1	0.2				ug/L	444354	Standard
[	Cr-1	52	99.0	1.7	0.0558	0.005	8.3	ug/L	48	KED
|	Cr-1	53	10.3	24.4	0.0564	0.021	36.5	ug/L	4	KED
[>	Ge-1	72	8447.5	3.0				ug/L	8705	KED
|	As-2	75	4.3	48.0	0.0747	0.047	62.5	ug/L	1	KED
|	Y-1	89	15524.1	0.3				ug/L	15608	KED
|	Rh-1	103	89900.3	0.4				ug/L	94968	KED
[	Cd-1	111	3.0	33.3	0.0020	0.005	265.4	ug/L	3	KED
|	Cd-1	114	3.7	32.0	0.0054	0.002	43.2	ug/L	1	KED
[>	In-1	115	9592.1	1.9				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		93.177
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		97.042
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		98.516

Quantitative Analysis - Summary Report

Sample ID: 10-210-07bMS 2X

Sample Date/Time: Friday, October 29, 2021 11:53:42

Report Date/Time: Thursday, November 04, 2021 06:12:33

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bMS 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	473068.5	0.8				ug/L	513505	Standard
|	Ho	165	483926.4	0.5				ug/L	523668	Standard
|	Pb	208	1591655.8	0.7	45.9209	0.211	0.5	ug/L	536	Standard
|	Bi	209	287963.4	0.7				ug/L	317932	Standard
|	Th	232	419051.8	0.5				ug/L	444354	Standard
[	Cr-1	52	41059.6	0.7	45.1515	0.695	1.5	ug/L	48	KED
|	Cr-1	53	5055.2	0.8	45.8904	0.779	1.7	ug/L	4	KED
[>	Ge-1	72	8158.7	0.9				ug/L	8705	KED
|	As-2	75	2058.5	3.4	47.0115	1.496	3.2	ug/L	1	KED
|	Y-1	89	15129.7	1.9				ug/L	15608	KED
|	Rh-1	103	86194.9	0.5				ug/L	94968	KED
[	Cd-1	111	8643.9	1.8	45.9893	0.829	1.8	ug/L	3	KED
|	Cd-1	114	21899.0	0.9	44.9779	0.450	1.0	ug/L	1	KED
[>	In-1	115	9487.0	1.7				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		92.125
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		93.724
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		97.436

Quantitative Analysis - Summary Report

Sample ID: 10-210-07bMSD 2X

Sample Date/Time: Friday, October 29, 2021 11:58:22

Report Date/Time: Thursday, November 04, 2021 06:12:35

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bMSD 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	469286.6	0.6				ug/L	513505	Standard
|	Ho	165	477365.0	0.1				ug/L	523668	Standard
|	Pb	208	1663389.0	0.5	48.3774	0.027	0.1	ug/L	536	Standard
|	Bi	209	283497.8	0.8				ug/L	317932	Standard
|	Th	232	410442.0	0.1				ug/L	444354	Standard
[	Cr-1	52	42868.2	0.6	47.7467	0.739	1.5	ug/L	48	KED
|	Cr-1	53	5222.3	2.8	48.0062	1.017	2.1	ug/L	4	KED
[>	Ge-1	72	8055.6	1.0				ug/L	8705	KED
|	As-2	75	2190.5	4.1	50.6858	2.570	5.1	ug/L	1	KED
|	Y-1	89	14885.8	1.9				ug/L	15608	KED
|	Rh-1	103	85130.9	0.9				ug/L	94968	KED
[	Cd-1	111	8934.1	0.6	48.6116	0.986	2.0	ug/L	3	KED
|	Cd-1	114	22934.4	1.2	48.1713	1.024	2.1	ug/L	1	KED
[>	In-1	115	9277.5	1.5				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		91.389
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		92.540
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		95.285

Quantitative Analysis - Summary Report

Sample ID: 10-210-07bPS 2X

Sample Date/Time: Friday, October 29, 2021 12:03:04

Report Date/Time: Thursday, November 04, 2021 06:12:36

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-210-07bPS 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	448485.5	1.0				ug/L	513505	Standard
|	Ho	165	459189.5	0.1				ug/L	523668	Standard
|	Pb	208	1316597.3	0.2	40.0678	0.448	1.1	ug/L	536	Standard
|	Bi	209	274899.1	0.2				ug/L	317932	Standard
|	Th	232	397240.1	0.6				ug/L	444354	Standard
[	Cr-1	52	33990.1	1.0	39.0837	0.337	0.9	ug/L	48	KED
|	Cr-1	53	4206.0	1.5	39.9279	0.753	1.9	ug/L	4	KED
[>	Ge-1	72	7800.5	0.6				ug/L	8705	KED
|	As-2	75	1732.4	1.7	41.3793	0.523	1.3	ug/L	1	KED
|	Y-1	89	14379.2	0.9				ug/L	15608	KED
|	Rh-1	103	82589.7	1.0				ug/L	94968	KED
[	Cd-1	111	7034.4	0.4	39.0654	0.390	1.0	ug/L	3	KED
|	Cd-1	114	18024.5	2.5	38.6371	0.555	1.4	ug/L	1	KED
[>	In-1	115	9088.2	1.4				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		87.338
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		89.609
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		93.341

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, October 29, 2021 12:07:45

Report Date/Time: Thursday, November 04, 2021 06:12:38

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	497730.6	0.0				ug/L	513505	Standard
|	Ho	165	501444.4	0.7				ug/L	523668	Standard
|	Pb	208	1478331.9	1.1	40.5359	0.434	1.1	ug/L	536	Standard
|	Bi	209	308175.0	0.7				ug/L	317932	Standard
|	Th	232	429593.3	0.3				ug/L	444354	Standard
[	Cr-1	52	38565.0	1.4	39.0990	0.509	1.3	ug/L	48	KED
|	Cr-1	53	4693.4	1.6	39.2857	0.833	2.1	ug/L	4	KED
[>	Ge-1	72	8847.7	1.8				ug/L	8705	KED
|	As-2	75	1900.8	2.2	40.0353	1.110	2.8	ug/L	1	KED
|	Y-1	89	15870.8	0.8				ug/L	15608	KED
|	Rh-1	103	93914.1	1.8				ug/L	94968	KED
[	Cd-1	111	8123.0	1.9	40.1679	0.656	1.6	ug/L	3	KED
|	Cd-1	114	20683.3	0.2	39.4865	0.239	0.6	ug/L	1	KED
[>	In-1	115	10205.4	0.4				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		96.928
|	Ho	165		
|	Pb	208	101.340	
|	Bi	209		
|	Th	232		
[	Cr-1	52	97.748	
|	Cr-1	53	98.214	
[>	Ge-1	72		101.640
|	As-2	75	100.088	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	100.420	
|	Cd-1	114	98.716	
[>	In-1	115		104.815

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, October 29, 2021 12:12:26

Report Date/Time: Thursday, November 04, 2021 06:12:41

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	482144.4	0.6				ug/L	513505	Standard
|	Ho	165	493279.5	0.3				ug/L	523668	Standard
|	Pb	208	724969.8	0.1	20.5147	0.112	0.5	ug/L	536	Standard
|	Bi	209	301900.8	0.6				ug/L	317932	Standard
|	Th	232	423104.1	0.8				ug/L	444354	Standard
[	Cr-1	52	19028.3	0.8	19.6422	0.185	0.9	ug/L	48	KED
|	Cr-1	53	2305.5	2.2	19.6536	0.369	1.9	ug/L	4	KED
[>	Ge-1	72	8678.3	0.3				ug/L	8705	KED
|	As-2	75	943.7	2.6	20.2503	0.548	2.7	ug/L	1	KED
|	Y-1	89	15860.8	2.7				ug/L	15608	KED
|	Rh-1	103	93216.8	0.5				ug/L	94968	KED
[	Cd-1	111	4036.2	1.3	20.3282	0.414	2.0	ug/L	3	KED
|	Cd-1	114	10293.1	0.9	20.0166	0.009	0.0	ug/L	1	KED
[>	In-1	115	10018.1	0.8				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		93.893
|	Ho	165		
|	Pb	208	102.573	
|	Bi	209		
|	Th	232		
[	Cr-1	52	98.211	
|	Cr-1	53	98.268	
[>	Ge-1	72		99.693
|	As-2	75	101.252	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	101.641	
|	Cd-1	114	100.083	
[>	In-1	115		102.892

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, October 29, 2021 12:17:07

Report Date/Time: Thursday, November 04, 2021 06:12:43

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	498187.9	0.4				ug/L	513505	Standard
|	Ho	165	508196.0	0.3				ug/L	523668	Standard
|	Pb	208	522.3	7.9	0.0001	0.001	1549.6	ug/L	536	Standard
|	Bi	209	309679.9	1.3				ug/L	317932	Standard
|	Th	232	431912.1	0.5				ug/L	444354	Standard
|	Cr-1	52	47.7	5.3	-0.0023	0.002	89.0	ug/L	48	KED
|	Cr-1	53	6.3	48.2	0.0176	0.024	138.7	ug/L	4	KED
[>	Ge-1	72	9059.5	1.7				ug/L	8705	KED
|	As-2	75	1.0	0.0	-0.0008	0.000	41.4	ug/L	1	KED
|	Y-1	89	16669.4	0.7				ug/L	15608	KED
|	Rh-1	103	97434.2	1.7				ug/L	94968	KED
|	Cd-1	111	2.3	49.5	-0.0025	0.006	223.7	ug/L	3	KED
|	Cd-1	114	3.4	63.5	0.0043	0.004	95.5	ug/L	1	KED
[>	In-1	115	10436.4	0.6				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		97.017
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		104.073
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		107.188

Quantitative Analysis - Summary Report

Sample ID: 10-244-01a 2X

Sample Date/Time: Friday, October 29, 2021 12:21:52

Report Date/Time: Thursday, November 04, 2021 06:12:45

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-244-01a 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	422466.1	0.5				ug/L	513505	Standard
|	Ho	165	433538.6	1.1				ug/L	523668	Standard
|	Pb	208	16670.1	1.1	0.5245	0.008	1.6	ug/L	536	Standard
|	Bi	209	232638.0	0.5				ug/L	317932	Standard
|	Th	232	391362.3	0.1				ug/L	444354	Standard
|	Cr-1	52	3415.4	4.0	4.2217	0.158	3.7	ug/L	48	KED
|	Cr-1	53	410.0	7.0	4.1968	0.282	6.7	ug/L	4	KED
[>	Ge-1	72	7180.8	0.4				ug/L	8705	KED
|	As-2	75	432.0	2.8	11.1939	0.329	2.9	ug/L	1	KED
|	Y-1	89	14270.5	0.8				ug/L	15608	KED
|	Rh-1	103	73552.2	0.9				ug/L	94968	KED
|	Cd-1	111	10.3	20.1	0.0486	0.012	25.7	ug/L	3	KED
|	Cd-1	114	14.2	19.3	0.0310	0.006	20.8	ug/L	1	KED
[>	In-1	115	8351.0	0.5				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		82.271
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		82.491
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		85.769

Quantitative Analysis - Summary Report

Sample ID: 10-244-02a 2X

Sample Date/Time: Friday, October 29, 2021 12:26:34

Report Date/Time: Thursday, November 04, 2021 06:12:47

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-244-02a 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	407262.1	0.6				ug/L	513505	Standard
|	Ho	165	415914.8	1.5				ug/L	523668	Standard
|	Pb	208	17441.2	0.3	0.5705	0.004	0.8	ug/L	536	Standard
|	Bi	209	219831.2	0.3				ug/L	317932	Standard
|	Th	232	370656.0	0.3				ug/L	444354	Standard
[	Cr-1	52	4235.6	3.7	5.4263	0.174	3.2	ug/L	48	KED
|	Cr-1	53	517.3	5.7	5.4869	0.345	6.3	ug/L	4	KED
[>	Ge-1	72	6946.0	0.5				ug/L	8705	KED
|	As-2	75	251.3	6.6	6.7227	0.413	6.1	ug/L	1	KED
|	Y-1	89	14208.4	1.2				ug/L	15608	KED
|	Rh-1	103	70466.7	0.7				ug/L	94968	KED
[	Cd-1	111	5.7	10.2	0.0213	0.004	18.5	ug/L	3	KED
|	Cd-1	114	8.3	33.3	0.0176	0.006	36.2	ug/L	1	KED
[>	In-1	115	8153.9	1.5				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		79.310
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		79.794
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		83.744

Quantitative Analysis - Summary Report

Sample ID: 10-264-01a 2X

Sample Date/Time: Friday, October 29, 2021 12:31:15

Report Date/Time: Thursday, November 04, 2021 06:12:49

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-264-01a 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	400342.9	0.6				ug/L	513505	Standard
|	Ho	165	405973.7	0.4				ug/L	523668	Standard
|	Pb	208	70621.7	0.2	2.3942	0.018	0.7	ug/L	536	Standard
|	Bi	209	201855.2	0.9				ug/L	317932	Standard
|	Th	232	358736.7	0.3				ug/L	444354	Standard
[	Cr-1	52	11894.3	0.3	15.7971	0.228	1.4	ug/L	48	KED
|	Cr-1	53	1484.1	1.5	16.2833	0.407	2.5	ug/L	4	KED
[>	Ge-1	72	6741.6	1.2				ug/L	8705	KED
|	As-2	75	186.0	5.1	5.1243	0.325	6.3	ug/L	1	KED
|	Y-1	89	15566.8	1.2				ug/L	15608	KED
|	Rh-1	103	66140.8	0.2				ug/L	94968	KED
[	Cd-1	111	13.7	33.8	0.0755	0.031	40.8	ug/L	3	KED
|	Cd-1	114	39.8	3.7	0.0981	0.004	4.4	ug/L	1	KED
[>	In-1	115	7734.1	1.7				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		77.963
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		77.445
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		79.434

Quantitative Analysis - Summary Report

Sample ID: 10-276-01c 2X

Sample Date/Time: Friday, October 29, 2021 12:35:56

Report Date/Time: Thursday, November 04, 2021 06:12:51

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-276-01c 2X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	393230.6	0.2				ug/L	513505	Standard
|	Ho	165	400480.3	0.5				ug/L	523668	Standard
|	Pb	208	42079.6	0.6	1.4467	0.010	0.7	ug/L	536	Standard
|	Bi	209	202707.0	0.3				ug/L	317932	Standard
|	Th	232	352178.6	0.4				ug/L	444354	Standard
[	Cr-1	52	6074.3	1.3	7.6262	0.125	1.6	ug/L	48	KED
|	Cr-1	53	751.4	4.9	7.8004	0.378	4.8	ug/L	4	KED
[>	Ge-1	72	7107.4	0.9				ug/L	8705	KED
|	As-2	75	198.0	10.9	5.1695	0.531	10.3	ug/L	1	KED
|	Y-1	89	14815.3	0.7				ug/L	15608	KED
|	Rh-1	103	69128.2	0.6				ug/L	94968	KED
[	Cd-1	111	9.0	22.2	0.0419	0.013	30.8	ug/L	3	KED
|	Cd-1	114	12.6	11.3	0.0279	0.004	14.1	ug/L	1	KED
[>	In-1	115	8174.2	2.0				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		76.578
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		81.648
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		83.953

Quantitative Analysis - Summary Report

Sample ID: BL

Sample Date/Time: Friday, October 29, 2021 12:40:55

Report Date/Time: Thursday, November 04, 2021 06:12:53

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\BL.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	469958.0	0.8				ug/L	513505	Standard
|	Ho	165	475400.0	0.8				ug/L	523668	Standard
|	Pb	208	703.3	3.2	0.0062	0.001	9.4	ug/L	536	Standard
|	Bi	209	287798.5	0.9				ug/L	317932	Standard
|	Th	232	403177.9	0.4				ug/L	444354	Standard
[	Cr-1	52	42.0	15.6	-0.0099	0.006	62.2	ug/L	48	KED
|	Cr-1	53	7.0	49.5	0.0202	0.026	130.6	ug/L	4	KED
[>	Ge-1	72	9515.2	1.6				ug/L	8705	KED
|	As-2	75	0.3	173.2	-0.0149	0.011	75.3	ug/L	1	KED
|	Y-1	89	17330.5	2.1				ug/L	15608	KED
|	Rh-1	103	99592.3	1.1				ug/L	94968	KED
[	Cd-1	111	2.3	24.7	-0.0030	0.002	80.8	ug/L	3	KED
|	Cd-1	114	3.3	5.7	0.0038	0.000	7.8	ug/L	1	KED
[>	In-1	115	10874.0	1.9				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		91.520
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		109.307
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		111.682

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, October 29, 2021 12:45:37

Report Date/Time: Thursday, November 04, 2021 06:12:55

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 6.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Tb	159	467236.0	0.4				ug/L	513505	Standard
|	Ho	165	477171.2	0.6				ug/L	523668	Standard
|	Pb	208	1384139.1	0.3	40.4306	0.201	0.5	ug/L	536	Standard
|	Bi	209	289597.0	0.9				ug/L	317932	Standard
|	Th	232	405178.6	0.3				ug/L	444354	Standard
|	Cr-1	52	39641.6	0.7	38.3985	0.662	1.7	ug/L	48	KED
|	Cr-1	53	4864.8	2.3	38.9059	1.276	3.3	ug/L	4	KED
>	Ge-1	72	9261.3	1.8				ug/L	8705	KED
|	As-2	75	2044.8	1.0	41.1432	0.565	1.4	ug/L	1	KED
|	Y-1	89	17143.3	1.0				ug/L	15608	KED
|	Rh-1	103	98027.5	0.7				ug/L	94968	KED
|	Cd-1	111	8409.8	0.5	39.6879	0.560	1.4	ug/L	3	KED
|	Cd-1	114	21363.1	1.7	38.9220	0.919	2.4	ug/L	1	KED
>	In-1	115	10695.2	1.3				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Tb	159		90.990
|	Ho	165		
|	Pb	208	101.076	
|	Bi	209		
|	Th	232		
|	Cr-1	52	95.996	
|	Cr-1	53	97.265	
>	Ge-1	72		106.391
|	As-2	75	102.858	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	99.220	
|	Cd-1	114	97.305	
>	In-1	115		109.845

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, October 29, 2021 12:50:18

Report Date/Time: Thursday, November 04, 2021 06:12:57

Method File: C:\NexlONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X211029B\QC Std 7.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	458633.0	1.4				ug/L	513505	Standard
|	Ho	165	463526.0	1.0				ug/L	523668	Standard
|	Pb	208	678757.9	0.4	20.1931	0.223	1.1	ug/L	536	Standard
|	Bi	209	284543.2	0.5				ug/L	317932	Standard
|	Th	232	398849.6	0.5				ug/L	444354	Standard
[	Cr-1	52	19479.6	1.4	18.8552	0.339	1.8	ug/L	48	KED
|	Cr-1	53	2383.9	2.8	19.0562	0.517	2.7	ug/L	4	KED
[>	Ge-1	72	9254.3	0.6				ug/L	8705	KED
|	As-2	75	1030.0	1.9	20.7269	0.342	1.7	ug/L	1	KED
|	Y-1	89	16832.2	0.2				ug/L	15608	KED
|	Rh-1	103	95863.6	0.8				ug/L	94968	KED
[	Cd-1	111	4074.2	1.3	19.5450	0.491	2.5	ug/L	3	KED
|	Cd-1	114	10638.7	1.9	19.7100	0.636	3.2	ug/L	1	KED
[>	In-1	115	10519.1	1.8				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		89.314
|	Ho	165		
|	Pb	208	100.965	
|	Bi	209		
|	Th	232		
[	Cr-1	52	94.276	
|	Cr-1	53	95.281	
[>	Ge-1	72		106.311
|	As-2	75	103.635	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	97.725	
|	Cd-1	114	98.550	
[>	In-1	115		108.037

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, October 29, 2021 12:54:59

Report Date/Time: Thursday, November 04, 2021 06:13:00

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	463823.4	0.4				ug/L	513505	Standard
|	Ho	165	475723.3	0.9				ug/L	523668	Standard
|	Pb	208	577.3	4.8	0.0028	0.001	28.1	ug/L	536	Standard
|	Bi	209	287398.9	0.6				ug/L	317932	Standard
|	Th	232	406555.6	0.5				ug/L	444354	Standard
|	Cr-1	52	54.0	27.3	0.0020	0.014	707.6	ug/L	48	KED
|	Cr-1	53	6.0	44.1	0.0130	0.020	154.3	ug/L	4	KED
[>	Ge-1	72	9412.8	1.3				ug/L	8705	KED
|	As-2	75	1.7	69.3	0.0117	0.023	198.2	ug/L	1	KED
|	Y-1	89	17437.3	0.5				ug/L	15608	KED
|	Rh-1	103	98935.1	0.6				ug/L	94968	KED
|	Cd-1	111	2.0	50.0	-0.0046	0.005	102.1	ug/L	3	KED
|	Cd-1	114	5.7	35.9	0.0080	0.004	45.9	ug/L	1	KED
[>	In-1	115	10957.5	0.9				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		90.325
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		108.131
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		112.539

Quantitative Analysis - Summary Report

Sample ID: 10-231-01c 2X

Sample Date/Time: Friday, October 29, 2021 13:03:00

Report Date/Time: Thursday, November 04, 2021 06:13:02

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-01c 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	440979.5	0.4				ug/L	513505	Standard
|	Ho	165	447602.7	0.3				ug/L	523668	Standard
|	Pb	208	2405.4	2.4	0.0602	0.002	3.4	ug/L	536	Standard
|	Bi	209	252121.1	0.8				ug/L	317932	Standard
|	Th	232	384098.5	1.1				ug/L	444354	Standard
[	Cr-1	52	1443.1	3.6	1.4563	0.045	3.1	ug/L	48	KED
|	Cr-1	53	185.7	11.6	1.5641	0.174	11.1	ug/L	4	KED
[>	Ge-1	72	8605.6	0.9				ug/L	8705	KED
|	As-2	75	58.7	11.6	1.2486	0.137	11.0	ug/L	1	KED
|	Y-1	89	16550.2	0.7				ug/L	15608	KED
|	Rh-1	103	87818.2	1.8				ug/L	94968	KED
[	Cd-1	111	3.0	66.7	0.0010	0.010	975.4	ug/L	3	KED
|	Cd-1	114	6.8	54.4	0.0109	0.007	66.6	ug/L	1	KED
[>	In-1	115	10157.9	1.6				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		85.876
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		98.858
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		104.327

Quantitative Analysis - Summary Report

Sample ID: 10-231-02c 2X

Sample Date/Time: Friday, October 29, 2021 13:07:41

Report Date/Time: Thursday, November 04, 2021 06:13:05

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-02c 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	425372.0	0.9				ug/L	513505	Standard
|	Ho	165	433132.7	0.8				ug/L	523668	Standard
|	Pb	208	7552.8	0.7	0.2282	0.004	1.6	ug/L	536	Standard
|	Bi	209	234845.6	0.3				ug/L	317932	Standard
|	Th	232	374919.2	0.6				ug/L	444354	Standard
[	Cr-1	52	2927.0	0.9	3.2055	0.084	2.6	ug/L	48	KED
|	Cr-1	53	356.7	3.2	3.2390	0.122	3.8	ug/L	4	KED
[>	Ge-1	72	8078.0	1.7				ug/L	8705	KED
|	As-2	75	72.3	4.0	1.6483	0.078	4.7	ug/L	1	KED
|	Y-1	89	15613.5	0.4				ug/L	15608	KED
|	Rh-1	103	81161.6	0.4				ug/L	94968	KED
[	Cd-1	111	3.7	63.0	0.0059	0.013	215.2	ug/L	3	KED
|	Cd-1	114	6.6	40.5	0.0113	0.005	45.4	ug/L	1	KED
[>	In-1	115	9524.7	3.5				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		82.837
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		92.797
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		97.824

Quantitative Analysis - Summary Report

Sample ID: 10-231-03c 2X

Sample Date/Time: Friday, October 29, 2021 13:12:20

Report Date/Time: Thursday, November 04, 2021 06:13:07

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-03c 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	439767.1	0.7				ug/L	513505	Standard
|	Ho	165	444915.4	0.4				ug/L	523668	Standard
|	Pb	208	2102.4	0.2	0.0510	0.000	0.6	ug/L	536	Standard
|	Bi	209	252643.1	0.4				ug/L	317932	Standard
|	Th	232	383349.1	0.5				ug/L	444354	Standard
[	Cr-1	52	265.7	4.7	0.2347	0.011	4.5	ug/L	48	KED
|	Cr-1	53	34.0	21.2	0.2667	0.067	25.1	ug/L	4	KED
[>	Ge-1	72	8393.8	1.2				ug/L	8705	KED
|	As-2	75	14.7	25.8	0.3049	0.088	28.8	ug/L	1	KED
|	Y-1	89	15752.0	1.0				ug/L	15608	KED
|	Rh-1	103	86083.6	0.8				ug/L	94968	KED
[	Cd-1	111	5.0	34.6	0.0116	0.009	78.6	ug/L	3	KED
|	Cd-1	114	2.7	148.9	0.0031	0.008	251.2	ug/L	1	KED
[>	In-1	115	9938.6	1.2				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		85.640
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		96.425
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		102.075

Quantitative Analysis - Summary Report

Sample ID: 10-231-04c 2X

Sample Date/Time: Friday, October 29, 2021 13:17:01

Report Date/Time: Thursday, November 04, 2021 06:13:09

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-04c 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	435795.4	0.6				ug/L	513505	Standard
|	Ho	165	446207.1	0.4				ug/L	523668	Standard
|	Pb	208	1939.7	0.8	0.0465	0.000	0.2	ug/L	536	Standard
|	Bi	209	255506.1	0.8				ug/L	317932	Standard
|	Th	232	383346.3	0.2				ug/L	444354	Standard
[	Cr-1	52	1095.0	2.0	1.1307	0.031	2.7	ug/L	48	KED
|	Cr-1	53	130.3	5.4	1.1246	0.048	4.3	ug/L	4	KED
[>	Ge-1	72	8333.8	1.3				ug/L	8705	KED
|	As-2	75	140.7	4.7	3.1242	0.107	3.4	ug/L	1	KED
|	Y-1	89	16170.8	1.2				ug/L	15608	KED
|	Rh-1	103	85870.6	0.1				ug/L	94968	KED
[	Cd-1	111	2.0	50.0	-0.0036	0.005	143.2	ug/L	3	KED
|	Cd-1	114	2.9	107.6	0.0035	0.006	173.1	ug/L	1	KED
[>	In-1	115	9831.6	2.2				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		84.867
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		95.736
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		100.975

Quantitative Analysis - Summary Report

Sample ID: 10-231-05c 2X

Sample Date/Time: Friday, October 29, 2021 13:21:41

Report Date/Time: Thursday, November 04, 2021 06:13:11

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-05c 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	434364.0	1.0				ug/L	513505	Standard
|	Ho	165	444504.5	1.3				ug/L	523668	Standard
|	Pb	208	2696.4	1.1	0.0705	0.001	0.9	ug/L	536	Standard
|	Bi	209	252095.9	0.3				ug/L	317932	Standard
|	Th	232	383781.9	0.6				ug/L	444354	Standard
|	Cr-1	52	1146.7	1.8	1.1770	0.030	2.5	ug/L	48	KED
|	Cr-1	53	132.7	6.8	1.1368	0.079	6.9	ug/L	4	KED
[>	Ge-1	72	8397.1	0.7				ug/L	8705	KED
|	As-2	75	74.0	12.4	1.6223	0.214	13.2	ug/L	1	KED
|	Y-1	89	15757.4	1.0				ug/L	15608	KED
|	Rh-1	103	84893.2	0.8				ug/L	94968	KED
|	Cd-1	111	2.3	24.7	-0.0018	0.003	159.6	ug/L	3	KED
|	Cd-1	114	7.1	25.7	0.0121	0.003	28.5	ug/L	1	KED
[>	In-1	115	9745.0	1.5				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		84.588
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		96.464
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		100.086

Quantitative Analysis - Summary Report

Sample ID: 10-231-06c 2X

Sample Date/Time: Friday, October 29, 2021 13:26:20

Report Date/Time: Thursday, November 04, 2021 06:13:13

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-06c 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	441841.5	0.3				ug/L	513505	Standard
|	Ho	165	449613.5	0.5				ug/L	523668	Standard
|	Pb	208	3275.5	1.8	0.0870	0.002	2.3	ug/L	536	Standard
|	Bi	209	256378.5	0.6				ug/L	317932	Standard
|	Th	232	387317.7	0.3				ug/L	444354	Standard
[	Cr-1	52	995.7	2.6	1.0014	0.029	2.9	ug/L	48	KED
|	Cr-1	53	120.0	6.3	1.0119	0.082	8.1	ug/L	4	KED
[>	Ge-1	72	8509.5	1.6				ug/L	8705	KED
|	As-2	75	51.0	25.9	1.0950	0.282	25.7	ug/L	1	KED
|	Y-1	89	15928.5	2.2				ug/L	15608	KED
|	Rh-1	103	86241.2	0.3				ug/L	94968	KED
[	Cd-1	111	3.3	45.8	0.0032	0.008	243.1	ug/L	3	KED
|	Cd-1	114	7.5	39.4	0.0126	0.006	46.4	ug/L	1	KED
[>	In-1	115	9889.1	0.6				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		86.044
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		97.755
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		101.566

Quantitative Analysis - Summary Report

Sample ID: 10-231-07c 2X

Sample Date/Time: Friday, October 29, 2021 13:31:01

Report Date/Time: Thursday, November 04, 2021 06:13:15

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-07c 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	430066.6	0.4				ug/L	513505	Standard
|	Ho	165	433321.3	0.9				ug/L	523668	Standard
|	Pb	208	8166.9	0.5	0.2450	0.002	1.0	ug/L	536	Standard
|	Bi	209	233679.8	0.6				ug/L	317932	Standard
|	Th	232	371175.3	0.7				ug/L	444354	Standard
[	Cr-1	52	916.4	4.1	0.9848	0.058	5.9	ug/L	48	KED
|	Cr-1	53	116.7	11.0	1.0522	0.120	11.4	ug/L	4	KED
[>	Ge-1	72	7960.9	1.6				ug/L	8705	KED
|	As-2	75	121.0	7.9	2.8102	0.180	6.4	ug/L	1	KED
|	Y-1	89	15660.9	0.3				ug/L	15608	KED
|	Rh-1	103	79469.1	0.3				ug/L	94968	KED
[	Cd-1	111	5.7	50.9	0.0164	0.015	93.7	ug/L	3	KED
|	Cd-1	114	8.8	49.1	0.0161	0.009	56.2	ug/L	1	KED
[>	In-1	115	9474.8	1.0				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		83.751
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		91.452
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		97.312

Quantitative Analysis - Summary Report

Sample ID: 10-231-08c 2X

Sample Date/Time: Friday, October 29, 2021 13:35:42

Report Date/Time: Thursday, November 04, 2021 06:13:18

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\10-231-08c 2X.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	386232.9	1.5				ug/L	513505	Standard
|	Ho	165	392045.9	1.2				ug/L	523668	Standard
|	Pb	208	2654.8	2.0	0.0796	0.001	1.5	ug/L	536	Standard
|	Bi	209	218126.7	0.6				ug/L	317932	Standard
|	Th	232	329320.0	0.6				ug/L	444354	Standard
[	Cr-1	52	1474.7	4.1	1.6959	0.071	4.2	ug/L	48	KED
|	Cr-1	53	186.7	1.7	1.7891	0.031	1.7	ug/L	4	KED
[>	Ge-1	72	7588.3	1.4				ug/L	8705	KED
|	As-2	75	55.3	15.8	1.3396	0.229	17.1	ug/L	1	KED
|	Y-1	89	14632.5	1.6				ug/L	15608	KED
|	Rh-1	103	76684.9	0.7				ug/L	94968	KED
[	Cd-1	111	4.3	48.0	0.0108	0.012	109.4	ug/L	3	KED
|	Cd-1	114	5.0	86.9	0.0088	0.010	107.9	ug/L	1	KED
[>	In-1	115	8870.5	0.1				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		75.215
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		87.172
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		91.105

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, October 29, 2021 13:40:22

Report Date/Time: Thursday, November 04, 2021 06:13:20

Method File: C:\NexlONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X211029B\QC Std 6.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	485409.9	1.5				ug/L	513505	Standard
|	Ho	165	493994.5	0.7				ug/L	523668	Standard
|	Pb	208	1441839.0	0.5	40.5441	0.554	1.4	ug/L	536	Standard
|	Bi	209	298407.5	0.4				ug/L	317932	Standard
|	Th	232	417936.9	1.2				ug/L	444354	Standard
[	Cr-1	52	41544.7	1.7	37.8300	0.666	1.8	ug/L	48	KED
|	Cr-1	53	5010.9	3.2	37.6631	0.940	2.5	ug/L	4	KED
[>	Ge-1	72	9850.4	1.4				ug/L	8705	KED
|	As-2	75	2072.8	2.6	39.2182	1.458	3.7	ug/L	1	KED
|	Y-1	89	18346.8	0.8				ug/L	15608	KED
|	Rh-1	103	102589.1	1.1				ug/L	94968	KED
[	Cd-1	111	8870.1	1.8	39.1131	0.393	1.0	ug/L	3	KED
|	Cd-1	114	22610.0	0.9	38.4952	0.663	1.7	ug/L	1	KED
[>	In-1	115	11444.3	0.8				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		94.529
|	Ho	165		
|	Pb	208	101.360	
|	Bi	209		
|	Th	232		
[	Cr-1	52	94.575	
|	Cr-1	53	94.158	
[>	Ge-1	72		113.158
|	As-2	75	98.046	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	97.783	
|	Cd-1	114	96.238	
[>	In-1	115		117.539

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, October 29, 2021 13:45:03

Report Date/Time: Thursday, November 04, 2021 06:13:23

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 7.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Tb	159	474803.1	0.4				ug/L	513505	Standard
|	Ho	165	480454.0	0.8				ug/L	523668	Standard
|	Pb	208	698612.8	0.3	20.0741	0.130	0.6	ug/L	536	Standard
|	Bi	209	289843.8	0.3				ug/L	317932	Standard
|	Th	232	406013.0	0.7				ug/L	444354	Standard
|	Cr-1	52	20127.2	1.6	18.5822	0.221	1.2	ug/L	48	KED
|	Cr-1	53	2485.5	2.7	18.9514	0.360	1.9	ug/L	4	KED
>	Ge-1	72	9702.6	2.0				ug/L	8705	KED
|	As-2	75	1059.0	3.4	20.3343	0.902	4.4	ug/L	1	KED
|	Y-1	89	17907.6	1.5				ug/L	15608	KED
|	Rh-1	103	100750.7	1.2				ug/L	94968	KED
|	Cd-1	111	4433.4	2.4	19.9403	0.324	1.6	ug/L	3	KED
|	Cd-1	114	11072.4	0.9	19.2343	0.270	1.4	ug/L	1	KED
>	In-1	115	11217.0	2.2				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Tb	159		92.463
|	Ho	165		
|	Pb	208	100.371	
|	Bi	209		
|	Th	232		
|	Cr-1	52	92.911	
|	Cr-1	53	94.757	
>	Ge-1	72		111.461
|	As-2	75	101.671	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	99.701	
|	Cd-1	114	96.171	
>	In-1	115		115.205

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, October 29, 2021 13:49:44

Report Date/Time: Thursday, November 04, 2021 06:13:24

Method File: C:\NexIONData_kmckinney\Method\X211029B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211029B\QC Std 8.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Tb	159	485082.1	1.0				ug/L	513505	Standard
|	Ho	165	488357.1	0.5				ug/L	523668	Standard
|	Pb	208	545.7	8.5	0.0011	0.001	130.6	ug/L	536	Standard
|	Bi	209	295059.4	0.6				ug/L	317932	Standard
|	Th	232	413775.2	0.5				ug/L	444354	Standard
|	Cr-1	52	53.7	8.4	-0.0007	0.005	790.4	ug/L	48	KED
|	Cr-1	53	5.0	40.0	0.0037	0.016	429.2	ug/L	4	KED
[>	Ge-1	72	9890.1	3.0				ug/L	8705	KED
|	As-2	75	1.3	43.3	0.0038	0.011	295.5	ug/L	1	KED
|	Y-1	89	18309.1	1.6				ug/L	15608	KED
|	Rh-1	103	103535.8	0.8				ug/L	94968	KED
|	Cd-1	111	4.0	25.0	0.0034	0.004	114.6	ug/L	3	KED
|	Cd-1	114	1.6	92.8	0.0005	0.002	474.3	ug/L	1	KED
[>	In-1	115	11653.6	2.3				ug/L	9737	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Tb	159		94.465
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		113.614
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		119.689

Dissolved Metals
EPA 200.8/7470A Data

Analyst: JBadger

Worksheet file: C:\Program Files\QuickTrace\Worksheets\11 November 2021\Y211101W1.wsz

Date Started: 11/1/2021 8:47:57 AM

Comment:

KAM
11-3-21

Results

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
Calibration Blank	STD	11/01/21 11:11:31 am	0.000	138	0.42	
Standard 0.01 ppb	STD	11/01/21 11:13:23 am	0.010	310	0.76	
Standard 0.05 ppb	STD	11/01/21 11:15:17 am	0.050	902	0.23	
Standard 0.5 ppb	STD	11/01/21 11:17:10 am	0.600	7979	4.55	
Standard 2.5 ppb	STD	11/01/21 11:19:04 am	2.500	36229	3.46	
Standard 5.0 ppb	STD	11/01/21 11:20:59 am	5.000	70944	3.97	

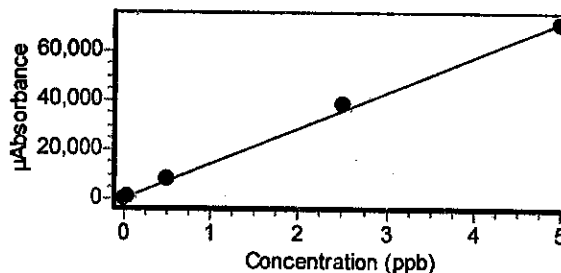
Calibration

Equation: $A = 135.669 + 14387.260C$

R2: 0.99835

SEE: 1438.9070

Flags:



ICV	ICV	11/01/21 11:22:55 am	2.643	38162	3.32	
% Recovery					105.72	
ICB	ICB	11/01/21 11:24:47 am	-0.005	60	16.91	
CCV	CCV	11/01/21 11:26:41 am	2.628	37945	4.08	
% Recovery					105.12	
CCB	CCB	11/01/21 11:28:33 am	-0.008	20	52.18	

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
MB1101W1	UNK	11/01/21 11:30:25 am	0.000	134	5.72	
SB1101W1	UNK	11/01/21 11:32:17 am	2.597	37499	3.13	
10-231-01c	UNK	11/01/21 11:34:10 am	-0.005	66	4.67	
10-231-01c D	UNK	11/01/21 11:36:03 am	0.003	175	2.66	
10-231-01c L	UNK	11/01/21 11:37:57 am	0.004	191	3.49	
10-231-01c MS	UNK	11/01/21 11:39:51 am	2.572	37134	2.41	
10-231-01c MSD	UNK	11/01/21 11:41:45 am	2.557	36923	4.54	
10-231-02c	UNK	11/01/21 11:43:40 am	-0.004	83	4.63	
10-231-03c	UNK	11/01/21 11:45:32 am	0.000	139	0.86	
10-231-04c	UNK	11/01/21 11:47:24 am	0.006	216	4.87	
CCV	CCV	11/01/21 11:49:18 am	2.602	37567	4.46	
% Recovery	104.07					
CCB	CCB	11/01/21 11:51:10 am	-0.008	19	56.82	
10-231-05c	UNK	11/01/21 11:53:03 am	0.000	134	1.80	
10-231-06c	UNK	11/01/21 11:54:56 am	0.003	175	3.46	
10-231-07c	UNK	11/01/21 11:56:49 am	0.003	176	4.40	
10-231-08c	UNK	11/01/21 11:58:43 am	0.004	197	4.75	
MB1101D1	UNK	11/01/21 12:00:38 pm	0.002	159	2.86	

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
SB1101D1	UNK	11/01/21 12:02:30 pm	2.648	38228	3.68	
10-231-01d	UNK	11/01/21 12:04:23 pm	-0.008	23	28.29	
10-231-01d D	UNK	11/01/21 12:08:15 pm	0.003	181	1.88	
10-231-01d L	UNK	11/01/21 12:08:10 pm	0.015	354	0.57	
10-231-01d MS	UNK	11/01/21 12:10:03 pm	2.727	39364	3.79	
CCV % Recovery 110.34	CCV	11/01/21 12:11:57 pm	2.759	39823	4.23	
CCB	CCB	11/01/21 12:13:49 pm	-0.006	49	12.90	
10-231-01d L	UNK	11/01/21 12:22:54 pm	0.006	215	2.16	
CCV	UNK	11/01/21 12:25:17 pm	2.699	38972	2.82	
CCB	UNK	11/01/21 12:27:09 pm	-0.008	24	12.73	
10-231-01d MSD	UNK	11/01/21 12:29:03 pm	2.686	38773	4.80	
10-231-02d	UNK	11/01/21 12:30:57 pm	0.000	132	17.40	
10-231-03d	UNK	11/01/21 12:32:52 pm	0.002	164	3.68	
10-231-04d	UNK	11/01/21 01:34:34 pm	0.002	169	6.74	
10-231-05d	UNK	11/01/21 01:36:27 pm	0.002	162	0.72	
10-231-06d	UNK	11/01/21 01:38:20 pm	0.005	209	1.75	
10-231-07d	UNK	11/01/21 01:40:13 pm	0.002	160	2.70	

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
10-231-08d	UNK	11/01/21 01:42:07 pm	0.003	180	2.86	
10-295-02g	UNK	11/01/21 01:44:01 pm	0.057	961	5.01	
10-295-04g	UNK	11/01/21 01:45:56 pm	0.034	624	2.57	
CCV % Recovery 108.29	CCV	11/01/21 01:47:50 pm	2.707	39085	5.20	(S)
CCB	CCB	11/01/21 01:51:31 pm	0.017	384	13.61	
CCV % Recovery 110.39	CCV	11/01/21 01:54:42 pm	2.760	39842	5.80	(S)
CCV	UNK	11/01/21 01:58:41 pm	2.756	39779	5.47	(S)
CCB	UNK	11/01/21 02:00:33 pm	0.001	145	8.09	
CCV	UNK	11/01/21 02:05:32 pm	2.755	39768	4.99	
CCB	UNK	11/01/21 02:07:24 pm	0.001	152	14.00	
MDL 0.01	UNK	11/01/21 02:09:54 pm	0.049	641	7.99	
MDL 0.01	UNK	11/01/21 02:11:47 pm	0.039	696	10.51	
MDL 0.01	UNK	11/01/21 02:13:41 pm	0.030	572	8.99	
MDL 0.01	UNK	11/01/21 02:15:34 pm	0.042	737	5.50	
MDL 0.01	UNK	11/01/21 02:17:28 pm	0.032	593	12.31	
MDL 0.01	UNK	11/01/21 02:19:22 pm	0.032	601	8.47	
MDL 0.01	UNK	11/01/21 02:21:17 pm	0.033	616	4.34	

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags
MDL 0.01	UNK	11/01/21 02:23:11 pm	0.033	604	7.33	
MDL 0.01	UNK	11/01/21 02:25:05 pm	0.035	637	6.83	
CCV % Recovery 109.35	CCV	11/01/21 02:26:59 pm	2.734	39467	5.78	s
CCB	CCB	11/01/21 02:28:51 pm	0.001	152	10.78	

Dataset Report

11-4-21
ICOM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X211028C\
Report Date/Time: Thursday, November 04, 2021 06:09:22

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	11:39:40 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\Sample.001	
	Sample	11:44:24 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\Sample.002	
	Blank	11:49:51 Thu	28-OBBlank	C:\NexIONData_kmckinney\DataSet\X211028C\Blank.003	
	Standard 1	11:53:45 Thu	28-OSstandard #1	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 1.004	
	Standard 2	11:57:40 Thu	28-OSstandard #2	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 2.005	
	Standard 3	12:01:34 Thu	28-OSstandard #3	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 3.006	
	Standard 4	12:05:29 Thu	28-OSstandard #4	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 4.007	
	Standard 5	12:09:23 Thu	28-OSstandard #5	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 5.008	
	Standard 6	12:13:17 Thu	28-OSstandard #6	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 6.009	
	Standard 7	12:17:11 Thu	28-OSstandard #7	C:\NexIONData_kmckinney\DataSet\X211028C\Standard 7.010	
	QC Std 1	12:21:55 Thu	28-OQC Std #1	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 1.011	
	QC Std 2	12:26:40 Thu	28-OQC Std #2	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 2.012	
	QC Std 6	12:30:34 Thu	28-OQC Std #6	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.013	
	QC Std 7	12:35:19 Thu	28-OQC Std #7	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.014	
	QC Std 8	12:40:03 Thu	28-OQC Std #8	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.015	
	MB1026F1 2X	12:43:57 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\MB1026F1 2X.016	
	MB1027F1 2X	12:48:41 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\MB1027F1 2X.017	
	SB1026F1 2X	12:53:24 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\SB1026F1 2X.018	
	SB1027F1 2X	12:58:39 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\SB1027F1 2X.019	
	10-244-01b 2X 26	13:03:22 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-244-01b 2X 26.020	
	10-244-02b 2X	13:08:05 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-244-02b 2X.021	
	10-247-01a 2X 27	13:12:48 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-247-01a 2X 27.022	
	10-247-02a 2X	13:17:33 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02a 2X.023	
	10-247-02aD 2X	13:24:45 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aD 2X.024	
	10-247-02aL 10X	13:29:29 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aL 10X.025	
	QC Std 6	13:34:13 Thu	28-OQC Std #6	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.026	
	QC Std 7	13:38:57 Thu	28-OQC Std #7	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.027	
	QC Std 8	13:43:42 Thu	28-OQC Std #8	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.028	
	10-247-02aMS 2X	13:48:38 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aMS 2X.029	
	10-247-02aMSD 2X	13:53:22 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aMSD 2X.030	
	10-231-01d 2X	13:58:06 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-01d 2X.031	
	10-231-02d 2X	14:02:49 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-02d 2X.032	
	10-231-03d 2X	14:07:33 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-03d 2X.033	
	10-231-04d 2X	14:12:16 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-04d 2X.034	
	10-231-05d 2X	14:16:59 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-05d 2X.035	
	10-231-06d 2X	14:21:43 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-06d 2X.036	
	10-231-07d 2X	14:26:26 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-07d 2X.037	
	10-231-08d 2X	14:31:11 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-08d 2X.038	
	QC Std 6	14:35:56 Thu	28-OQC Std #6	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.039	
	QC Std 7	14:40:40 Thu	28-OQC Std #7	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.040	
	QC Std 8	14:45:25 Thu	28-OQC Std #8	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.041	
	10-231-04d 50X	14:49:56 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-04d 50X.042	
	10-231-06d 5X	15:00:26 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-06d 5X.044	
	10-231-07 50X	15:05:10 Thu	28-OSample	C:\NexIONData_kmckinney\DataSet\X211028C\10-231-07 50X.045	
	QC Std 6	15:09:54 Thu	28-OQC Std #6	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.046	
	QC Std 7	15:14:39 Thu	28-OQC Std #7	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.047	
	QC Std 8	15:19:23 Thu	28-OQC Std #8	C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.048	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, October 28, 2021 11:49:51

Report Date/Time: Thursday, November 04, 2021 06:07:10

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Blank.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	442531.1	1.0				ug/L		Standard
[	Mn	55	3212.0	2.8				ug/L		Standard
	Ge	72	222138.0	2.2				ug/L		Standard
	Y	89	555833.8	1.1				ug/L		Standard
[	Rh	103	433908.6	2.5				ug/L		Standard
>	In	115	396663.6	0.4				ug/L		Standard
>	Tb	159	458426.1	1.1				ug/L		Standard
	Ho	165	470340.0	0.8				ug/L		Standard
	Pb	208	947.3	5.0				ug/L		Standard
	Bi	209	314405.2	0.5				ug/L		Standard
	Th	232	429805.0	0.6				ug/L		Standard
[	Cr-1	52	51.7	8.1				ug/L		KED
	Cr-1	53	8.0	33.1				ug/L		KED
>	Ge-1	72	9175.3	1.3				ug/L		KED
[	As-2	75	3.0	33.3				ug/L		KED
	Y-1	89	15729.3	0.8				ug/L		KED
	Rh-1	103	96361.2	0.9				ug/L		KED
[	Cd-1	111	5.7	66.8				ug/L		KED
	Cd-1	114	2.9	95.3				ug/L		KED
>	In-1	115	10059.6	1.4				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		

Sample ID: Blank

Report Date/Time: Thursday, November 04, 2021 06:07:10

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Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, October 28, 2021 11:53:45

Report Date/Time: Thursday, November 04, 2021 06:07:12

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Standard 1.004

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	534272.9	2.9			ug/L	442531	Standard
[	Mn	55	6928.0	2.3			ug/L	3212	Standard
	Ge	72	263621.3	2.3			ug/L	222138	Standard
	Y	89	685110.5	1.1			ug/L	555834	Standard
[	Rh	103	537664.4	1.7			ug/L	433909	Standard
>	In	115	472351.9	1.0			ug/L	396664	Standard
>	Tb	159	551853.6	0.7			ug/L	458426	Standard
	Ho	165	570619.1	0.7			ug/L	470340	Standard
	Pb	208	12094.7	1.9	0.2000	0.004	2.1	947	Standard
	Bi	209	377384.2	0.8			ug/L	314405	Standard
	Th	232	524470.5	1.3			ug/L	429805	Standard
[	Cr-1	52	350.7	7.1			ug/L	52	KED
	Cr-1	53	42.0	2.4			ug/L	8	KED
>	Ge-1	72	10975.5	1.4			ug/L	9175	KED
[	As-2	75	17.7	8.6	0.2000	0.020	10.2	3	KED
	Y-1	89	18727.6	1.1			ug/L	15729	KED
	Rh-1	103	114419.4	0.3			ug/L	96361	KED
[	Cd-1	111	64.0	11.8	0.2000	0.024	12.0	6	KED
	Cd-1	114	149.2	1.2	0.2000	0.004	1.9	3	KED
>	In-1	115	11917.6	1.3			ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45	
[	Mn	55	
	Ge	72	
	Y	89	
[	Rh	103	
>	In	115	
>	Tb	159	
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
[	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	
[	As-2	75	
	Y-1	89	
	Rh-1	103	
[	Cd-1	111	
	Cd-1	114	
>	In-1	115	

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, October 28, 2021 11:57:40

Report Date/Time: Thursday, November 04, 2021 06:07:14

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Standard 2.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	402023.8	2.0				ug/L	442531	Standard
[	Mn	55	8544.6	1.5				ug/L	3212	Standard
	Ge	72	201467.6	1.7				ug/L	222138	Standard
	Y	89	502590.9	2.2				ug/L	555834	Standard
[	Rh	103	390980.3	2.6				ug/L	433909	Standard
[>	In	115	365222.9	0.2				ug/L	396664	Standard
[>	Tb	159	423269.3	0.9				ug/L	458426	Standard
[	Ho	165	433462.6	0.5				ug/L	470340	Standard
|	Pb	208	19066.3	0.6	0.4896	0.008	1.6	ug/L	947	Standard
|	Bi	209	289147.0	0.8				ug/L	314405	Standard
[	Th	232	394239.9	0.3				ug/L	429805	Standard
[	Cr-1	52	510.3	6.9	0.5000	0.048	9.6	ug/L	52	KED
|	Cr-1	53	55.7	13.0	0.5000	0.082	16.4	ug/L	8	KED
[>	Ge-1	72	8440.2	1.9				ug/L	9175	KED
[	As-2	75	30.0	12.0	0.5006	0.075	15.0	ug/L	3	KED
	Y-1	89	14190.0	0.2				ug/L	15729	KED
	Rh-1	103	86825.1	0.4				ug/L	96361	KED
[	Cd-1	111	99.7	10.7	0.4903	0.059	12.1	ug/L	6	KED
|	Cd-1	114	263.7	3.0	0.4962	0.011	2.3	ug/L	3	KED
[>	In-1	115	9011.6	0.8				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, October 28, 2021 12:01:34

Report Date/Time: Thursday, November 04, 2021 06:07:16

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Standard 3.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	397102.0	0.7				ug/L	442531	Standard
[	Mn	55	31019.3	3.0	2.0000	0.053	2.7	ug/L	3212	Standard
	Ge	72	197294.4	0.9				ug/L	222138	Standard
	Y	89	493824.7	1.7				ug/L	555834	Standard
[	Rh	103	395442.5	1.1				ug/L	433909	Standard
[>	In	115	365574.6	0.8				ug/L	396664	Standard
[>	Tb	159	420133.4	0.3				ug/L	458426	Standard
[	Ho	165	436164.9	0.9				ug/L	470340	Standard
|	Pb	208	70426.9	0.6	1.9918	0.008	0.4	ug/L	947	Standard
|	Bi	209	293034.3	0.5				ug/L	314405	Standard
[	Th	232	395678.9	0.4				ug/L	429805	Standard
[	Cr-1	52	1776.1	2.2	1.9955	0.075	3.8	ug/L	52	KED
|	Cr-1	53	231.0	2.4	2.0193	0.082	4.1	ug/L	8	KED
[>	Ge-1	72	8184.0	1.9				ug/L	9175	KED
[	As-2	75	85.0	6.2	1.9624	0.140	7.1	ug/L	3	KED
	Y-1	89	14115.6	0.9				ug/L	15729	KED
	Rh-1	103	86329.8	1.2				ug/L	96361	KED
[	Cd-1	111	364.7	2.0	1.9913	0.060	3.0	ug/L	6	KED
|	Cd-1	114	930.2	5.9	1.9832	0.138	7.0	ug/L	3	KED
[>	In-1	115	8938.9	1.1				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
[	Ho	165		
	Pb	208		
	Bi	209		
[	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Thursday, October 28, 2021 12:05:29

Report Date/Time: Thursday, November 04, 2021 06:07:18

Method File: C:\NexlONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X211028C\Standard 4.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	464220.7	1.5				ug/L	442531	Standard
[	Mn	55	87852.0	1.5	5.0186	0.094	1.9	ug/L	3212	Standard
	Ge	72	233546.2	2.2				ug/L	222138	Standard
	Y	89	609805.7	3.6				ug/L	555834	Standard
[	Rh	103	467855.0	3.0				ug/L	433909	Standard
>	In	115	424935.9	0.2				ug/L	396664	Standard
>	Tb	159	501862.2	0.4				ug/L	458426	Standard
|	Ho	165	508577.3	1.6				ug/L	470340	Standard
|	Pb	208	209794.5	0.5	5.0007	0.038	0.8	ug/L	947	Standard
|	Bi	209	337908.4	0.5				ug/L	314405	Standard
[	Th	232	464355.6	0.4				ug/L	429805	Standard
[	Cr-1	52	5231.6	1.3	5.0278	0.063	1.3	ug/L	52	KED
|	Cr-1	53	651.7	6.8	5.0072	0.331	6.6	ug/L	8	KED
>	Ge-1	72	9401.1	0.9				ug/L	9175	KED
[	As-2	75	277.7	3.2	5.0911	0.152	3.0	ug/L	3	KED
	Y-1	89	16329.0	0.4				ug/L	15729	KED
	Rh-1	103	101145.2	1.4				ug/L	96361	KED
[	Cd-1	111	1089.7	4.1	5.0313	0.177	3.5	ug/L	6	KED
|	Cd-1	114	2811.5	1.4	5.0317	0.142	2.8	ug/L	3	KED
>	In-1	115	10271.5	1.7				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Thursday, October 28, 2021 12:09:23

Report Date/Time: Thursday, November 04, 2021 06:07:20

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Standard 5.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	388429.8	1.3				ug/L	442531	Standard
[	Mn	55	281004.5	0.4	19.9829	0.293	1.5	ug/L	3212	Standard
	Ge	72	197358.2	3.2				ug/L	222138	Standard
	Y	89	488289.1	2.4				ug/L	555834	Standard
[	Rh	103	379591.0	1.8				ug/L	433909	Standard
[>	In	115	355290.7	0.7				ug/L	396664	Standard
[>	Tb	159	415388.2	1.3				ug/L	458426	Standard
|	Ho	165	418688.7	0.6				ug/L	470340	Standard
|	Pb	208	681407.2	0.4	19.9790	0.181	0.9	ug/L	947	Standard
|	Bi	209	283369.5	0.5				ug/L	314405	Standard
[	Th	232	384280.8	0.8				ug/L	429805	Standard
|	Cr-1	52	16692.7	0.6	19.9434	0.223	1.1	ug/L	52	KED
|	Cr-1	53	2032.1	2.4	19.9073	0.418	2.1	ug/L	8	KED
[>	Ge-1	72	7914.5	0.9				ug/L	9175	KED
[	As-2	75	941.4	2.6	20.0447	0.508	2.5	ug/L	3	KED
	Y-1	89	13600.1	0.5				ug/L	15729	KED
	Rh-1	103	83574.4	0.1				ug/L	96361	KED
[	Cd-1	111	3568.8	3.6	20.0036	1.009	5.0	ug/L	6	KED
|	Cd-1	114	8989.7	0.9	19.9654	0.420	2.1	ug/L	3	KED
[>	In-1	115	8478.5	1.7				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
-----	Ho	165		
-----	Pb	208		
-----	Bi	209		
-----	Th	232		
-----	Cr-1	52		
-----	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
-----	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Thursday, October 28, 2021 12:13:17

Report Date/Time: Thursday, November 04, 2021 06:07:22

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Standard 6.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	389283.8	1.6				ug/L	442531	Standard
[	Mn	55	553962.5	2.6	39.8919	0.423	1.1	ug/L	3212	Standard
	Ge	72	192061.7	1.7				ug/L	222138	Standard
	Y	89	485106.9	1.6				ug/L	555834	Standard
[	Rh	103	384094.5	1.6				ug/L	433909	Standard
[>	In	115	354313.6	0.3				ug/L	396664	Standard
[>	Tb	159	414517.6	0.3				ug/L	458426	Standard
|	Ho	165	427740.1	0.7				ug/L	470340	Standard
|	Pb	208	1367611.9	0.9	40.0432	0.226	0.6	ug/L	947	Standard
|	Bi	209	288599.0	0.4				ug/L	314405	Standard
[	Th	232	395258.8	0.4				ug/L	429805	Standard
[	Cr-1	52	33625.9	0.8	40.0063	0.785	2.0	ug/L	52	KED
|	Cr-1	53	4088.3	2.2	39.9818	0.441	1.1	ug/L	8	KED
[>	Ge-1	72	7954.5	1.4				ug/L	9175	KED
[	As-2	75	1814.1	1.7	39.6718	1.205	3.0	ug/L	3	KED
	Y-1	89	13540.4	0.7				ug/L	15729	KED
	Rh-1	103	82866.0	1.6				ug/L	96361	KED
[	Cd-1	111	7079.4	1.3	39.8964	0.927	2.3	ug/L	6	KED
|	Cd-1	114	18386.1	0.4	40.1362	0.652	1.6	ug/L	3	KED
[>	In-1	115	8516.9	1.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Thursday, October 28, 2021 12:17:11

Report Date/Time: Thursday, November 04, 2021 06:07:23

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\Standard 7.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	399429.7	1.3				ug/L	442531	Standard
[	Mn	55	1366312.4	2.8	99.3339	1.426	1.4	ug/L	3212	Standard
	Ge	72	198971.0	2.7				ug/L	222138	Standard
	Y	89	505248.3	1.8				ug/L	555834	Standard
[	Rh	103	402179.2	0.9				ug/L	433909	Standard
[>	In	115	365976.1	0.2				ug/L	396664	Standard
[>	Tb	159	429683.8	1.2				ug/L	458426	Standard
|	Ho	165	440152.6	1.0				ug/L	470340	Standard
|	Pb	208	3344071.6	0.1	99.0280	1.210	1.2	ug/L	947	Standard
|	Bi	209	295275.4	0.6				ug/L	314405	Standard
[	Th	232	408015.3	0.9				ug/L	429805	Standard
[	Cr-1	52	83114.8	1.2	99.6429	1.482	1.5	ug/L	52	KED
|	Cr-1	53	10202.3	1.4	99.8032	1.623	1.6	ug/L	8	KED
[>	Ge-1	72	8038.3	0.3				ug/L	9175	KED
[	As-2	75	4532.4	0.8	99.6814	0.802	0.8	ug/L	3	KED
	Y-1	89	13737.9	2.2				ug/L	15729	KED
	Rh-1	103	84238.3	1.3				ug/L	96361	KED
[	Cd-1	111	17675.6	1.5	99.5067	0.282	0.3	ug/L	6	KED
|	Cd-1	114	45644.9	0.3	99.5090	1.150	1.2	ug/L	3	KED
[>	In-1	115	8735.0	1.3				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
---	Ho	165		
---	Pb	208		
---	Bi	209		
---	Th	232		
---	Cr-1	52		
---	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
---	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, October 28, 2021 12:21:55

Report Date/Time: Thursday, November 04, 2021 06:07:25

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 1.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	502970.7	1.1				ug/L	442531	Standard
[	Mn	55	910058.5	2.3	52.4479	0.908	1.7	ug/L	3212	Standard
	Ge	72	254016.4	3.7				ug/L	222138	Standard
	Y	89	653978.7	2.0				ug/L	555834	Standard
[	Rh	103	497688.9	3.7				ug/L	433909	Standard
[>	In	115	452911.0	1.1				ug/L	396664	Standard
[>	Tb	159	533244.9	1.3				ug/L	458426	Standard
|	Ho	165	544329.6	0.5				ug/L	470340	Standard
|	Pb	208	2221229.7	0.1	52.9908	0.646	1.2	ug/L	947	Standard
|	Bi	209	362735.9	0.5				ug/L	314405	Standard
[	Th	232	505643.1	0.4				ug/L	429805	Standard
[	Cr-1	52	53688.4	0.2	52.2100	0.776	1.5	ug/L	52	KED
|	Cr-1	53	6617.5	1.2	52.5098	1.353	2.6	ug/L	8	KED
[>	Ge-1	72	9905.8	1.4				ug/L	9175	KED
[	As-2	75	2804.9	0.9	50.0336	0.424	0.8	ug/L	3	KED
	Y-1	89	17125.9	0.9				ug/L	15729	KED
	Rh-1	103	103957.6	0.6				ug/L	96361	KED
[	Cd-1	111	11244.8	0.7	50.9238	0.340	0.7	ug/L	6	KED
|	Cd-1	114	28710.8	1.3	50.3570	0.785	1.6	ug/L	3	KED
[>	In-1	115	10855.8	0.3				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		113.658
[	Mn	55	104.896	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		114.180
[>	Tb	159		116.321
	Ho	165		
	Pb	208	105.982	
	Bi	209		
	Th	232		
	Cr-1	52	104.420	
	Cr-1	53	105.020	
[>	Ge-1	72		107.961
[	As-2	75	100.067	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.848	
	Cd-1	114	100.714	
[>	In-1	115		107.916

Sample ID: QC Std 1

Report Date/Time: Thursday, November 04, 2021 06:07:25

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Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, October 28, 2021 12:26:40

Report Date/Time: Thursday, November 04, 2021 06:07:28

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 2.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	413216.5	2.4				ug/L	442531	Standard
[	Mn	55	3147.7	5.4	0.0103	0.007	64.1	ug/L	3212	Standard
	Ge	72	207549.3	3.4				ug/L	222138	Standard
	Y	89	522293.5	2.1				ug/L	555834	Standard
[	Rh	103	406539.7	1.2				ug/L	433909	Standard
[>	In	115	375796.8	0.3				ug/L	396664	Standard
[>	Tb	159	437755.6	1.0				ug/L	458426	Standard
|	Ho	165	444914.2	0.7				ug/L	470340	Standard
|	Pb	208	986.0	3.5	0.0024	0.001	33.1	ug/L	947	Standard
|	Bi	209	296421.8	0.7				ug/L	314405	Standard
[	Th	232	407466.7	0.5				ug/L	429805	Standard
|	Cr-1	52	53.3	11.0	0.0073	0.006	82.5	ug/L	52	KED
|	Cr-1	53	5.0	0.0	-0.0214	0.001	4.9	ug/L	8	KED
[>	Ge-1	72	8342.8	2.2				ug/L	9175	KED
[	As-2	75	2.3	65.5	-0.0086	0.032	370.2	ug/L	3	KED
	Y-1	89	14452.3	1.1				ug/L	15729	KED
	Rh-1	103	87802.0	1.7				ug/L	96361	KED
[	Cd-1	111	5.3	28.6	0.0012	0.008	696.3	ug/L	6	KED
|	Cd-1	114	5.5	69.4	0.0060	0.008	129.5	ug/L	3	KED
[>	In-1	115	9075.3	2.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.376
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		94.739
[>	Tb	159		95.491
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		90.927
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		90.215

Sample ID: QC Std 2

Report Date/Time: Thursday, November 04, 2021 06:07:28

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Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, October 28, 2021 12:30:34

Report Date/Time: Thursday, November 04, 2021 06:07:30

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	386877.1	1.5				ug/L	442531	Standard
[	Mn	55	541922.0	2.0	40.5558	0.187	0.5	ug/L	3212	Standard
	Ge	72	193647.1	1.3				ug/L	222138	Standard
	Y	89	500715.2	2.4				ug/L	555834	Standard
[	Rh	103	386282.3	2.9				ug/L	433909	Standard
[>	In	115	345060.9	0.5				ug/L	396664	Standard
[>	Tb	159	408260.4	0.7				ug/L	458426	Standard
|	Ho	165	422431.4	0.9				ug/L	470340	Standard
|	Pb	208	1354775.9	0.2	42.2068	0.360	0.9	ug/L	947	Standard
|	Bi	209	285975.7	0.3				ug/L	314405	Standard
[	Th	232	389466.9	0.3				ug/L	429805	Standard
[	Cr-1	52	32783.9	0.5	40.2769	0.315	0.8	ug/L	52	KED
|	Cr-1	53	4079.6	2.5	40.8828	0.580	1.4	ug/L	8	KED
[>	Ge-1	72	7837.8	1.1				ug/L	9175	KED
[	As-2	75	1799.4	0.2	40.5561	0.412	1.0	ug/L	3	KED
	Y-1	89	13532.7	1.2				ug/L	15729	KED
	Rh-1	103	81920.2	0.7				ug/L	96361	KED
[	Cd-1	111	7060.7	0.4	40.7871	0.173	0.4	ug/L	6	KED
|	Cd-1	114	18366.8	0.8	41.0951	0.371	0.9	ug/L	3	KED
[>	In-1	115	8509.5	0.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		87.424
[	Mn	55	101.389	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		86.991
[>	Tb	159		89.057
|	Ho	165		
|	Pb	208	105.517	
|	Bi	209		
[	Th	232		
|	Cr-1	52	100.692	
|	Cr-1	53	102.207	
[>	Ge-1	72		85.423
[	As-2	75	101.390	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.968	
|	Cd-1	114	102.738	
[>	In-1	115		84.591

Sample ID: QC Std 6

Report Date/Time: Thursday, November 04, 2021 06:07:30

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Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, October 28, 2021 12:35:19

Report Date/Time: Thursday, November 04, 2021 06:07:33

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381927.8	0.5				ug/L	442531	Standard
[	Mn	55	269990.3	3.4	20.3660	0.799	3.9	ug/L	3212	Standard
	Ge	72	188630.5	2.1				ug/L	222138	Standard
	Y	89	486005.8	1.2				ug/L	555834	Standard
[	Rh	103	382588.0	1.4				ug/L	433909	Standard
[>	In	115	340702.1	0.5				ug/L	396664	Standard
[>	Tb	159	399389.9	0.8				ug/L	458426	Standard
|	Ho	165	411886.8	1.0				ug/L	470340	Standard
|	Pb	208	661111.2	0.1	21.0407	0.174	0.8	ug/L	947	Standard
|	Bi	209	278758.2	0.6				ug/L	314405	Standard
[	Th	232	381192.5	0.3				ug/L	429805	Standard
[	Cr-1	52	16369.0	0.3	20.2089	0.450	2.2	ug/L	52	KED
|	Cr-1	53	1956.5	1.3	19.7001	0.684	3.5	ug/L	8	KED
[>	Ge-1	72	7791.5	2.4				ug/L	9175	KED
[	As-2	75	905.0	1.7	20.4981	0.682	3.3	ug/L	3	KED
	Y-1	89	13449.3	1.3				ug/L	15729	KED
	Rh-1	103	81640.6	1.1				ug/L	96361	KED
[	Cd-1	111	3536.4	1.9	20.3359	0.703	3.5	ug/L	6	KED
|	Cd-1	114	9056.4	1.0	20.1793	0.453	2.2	ug/L	3	KED
[>	In-1	115	8545.7	1.7				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		86.305
[	Mn	55	101.830	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		85.892
[>	Tb	159		87.122
	Ho	165		
	Pb	208	105.203	
	Bi	209		
	Th	232		
	Cr-1	52	101.044	
	Cr-1	53	98.500	
[>	Ge-1	72		84.918
[	As-2	75	102.491	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.680	
[	Cd-1	114	100.896	
[>	In-1	115		84.951

Sample ID: QC Std 7

Report Date/Time: Thursday, November 04, 2021 06:07:33

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Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, October 28, 2021 12:40:03

Report Date/Time: Thursday, November 04, 2021 06:07:36

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	414223.3	1.4				ug/L	442531	Standard
[	Mn	55	3063.0	3.6	0.0039	0.006	150.7	ug/L	3212	Standard
	Ge	72	207151.9	2.1				ug/L	222138	Standard
	Y	89	518396.3	0.5				ug/L	555834	Standard
[	Rh	103	411260.9	1.1				ug/L	433909	Standard
[>	In	115	370146.7	0.2				ug/L	396664	Standard
[>	Tb	159	435972.8	1.2				ug/L	458426	Standard
|	Ho	165	444555.7	0.8				ug/L	470340	Standard
|	Pb	208	922.7	3.4	0.0006	0.001	106.2	ug/L	947	Standard
|	Bi	209	299418.0	0.7				ug/L	314405	Standard
|	Th	232	413785.6	0.7				ug/L	429805	Standard
[	Cr-1	52	50.3	19.1	0.0028	0.011	385.3	ug/L	52	KED
|	Cr-1	53	7.7	37.7	0.0021	0.026	1204.1	ug/L	8	KED
[>	Ge-1	72	8502.5	1.7				ug/L	9175	KED
[	As-2	75	2.3	49.5	-0.0091	0.024	269.7	ug/L	3	KED
	Y-1	89	14723.3	1.1				ug/L	15729	KED
	Rh-1	103	88545.9	0.5				ug/L	96361	KED
[	Cd-1	111	3.7	15.7	-0.0084	0.003	34.3	ug/L	6	KED
|	Cd-1	114	5.5	8.0	0.0059	0.001	17.9	ug/L	3	KED
[>	In-1	115	9354.9	2.0				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.603
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		93.315
[>	Tb	159		95.102
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		92.668
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		92.995

Sample ID: QC Std 8

Report Date/Time: Thursday, November 04, 2021 06:07:36

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Quantitative Analysis - Summary Report

Sample ID: MB1026F1 2X

Sample Date/Time: Thursday, October 28, 2021 12:43:57

Report Date/Time: Thursday, November 04, 2021 06:07:39

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\MB1026F1 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	397351.5	1.9				ug/L	442531	Standard
[	Mn	55	7942.5	2.0	0.3705	0.009	2.4	ug/L	3212	Standard
	Ge	72	196867.1	2.5				ug/L	222138	Standard
	Y	89	504457.3	1.2				ug/L	555834	Standard
[	Rh	103	403702.2	0.7				ug/L	433909	Standard
[>	In	115	349456.3	1.2				ug/L	396664	Standard
[>	Tb	159	414560.8	1.0				ug/L	458426	Standard
|	Ho	165	428042.7	0.1				ug/L	470340	Standard
|	Pb	208	1389.0	3.2	0.0164	0.002	10.5	ug/L	947	Standard
|	Bi	209	282061.4	0.3				ug/L	314405	Standard
[	Th	232	389808.0	0.2				ug/L	429805	Standard
[	Cr-1	52	63.0	19.8	0.0212	0.014	67.5	ug/L	52	KED
|	Cr-1	53	9.7	39.2	0.0260	0.037	143.1	ug/L	8	KED
[>	Ge-1	72	8043.3	1.0				ug/L	9175	KED
[	As-2	75	0.7	173.2	-0.0433	0.025	58.0	ug/L	3	KED
	Y-1	89	13872.1	0.7				ug/L	15729	KED
	Rh-1	103	84693.3	1.4				ug/L	96361	KED
[	Cd-1	111	2.0	50.0	-0.0164	0.006	34.2	ug/L	6	KED
|	Cd-1	114	-12.1	20.6	-0.0318	0.006	19.3	ug/L	3	KED
[>	In-1	115	8752.4	2.5				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		89.791
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		88.099
[>	Tb	159		90.431
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		87.662
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		87.006

Sample ID: MB1026F1 2X

Report Date/Time: Thursday, November 04, 2021 06:07:39

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Quantitative Analysis - Summary Report

Sample ID: MB1027F1 2X

Sample Date/Time: Thursday, October 28, 2021 12:48:41

Report Date/Time: Thursday, November 04, 2021 06:07:41

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\MB1027F1 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	415535.2	0.5				ug/L	442531	Standard
[	Mn	55	12560.5	0.7	0.6685	0.010	1.5	ug/L	3212	Standard
	Ge	72	200392.1	2.8				ug/L	222138	Standard
	Y	89	524936.4	2.6				ug/L	555834	Standard
[	Rh	103	406292.6	2.7				ug/L	433909	Standard
>	In	115	366554.1	0.3				ug/L	396664	Standard
>	Tb	159	427887.3	0.6				ug/L	458426	Standard
	Ho	165	434597.5	0.7				ug/L	470340	Standard
	Pb	208	4475.6	2.4	0.1068	0.003	2.6	ug/L	947	Standard
	Bi	209	287520.6	0.5				ug/L	314405	Standard
[	Th	232	398749.8	0.2				ug/L	429805	Standard
	Cr-1	52	56.0	17.6	0.0116	0.012	106.9	ug/L	52	KED
	Cr-1	53	9.7	21.5	0.0243	0.021	87.4	ug/L	8	KED
>	Ge-1	72	8202.0	2.2				ug/L	9175	KED
[	As-2	75	1.0	0.0	-0.0363	0.000	1.3	ug/L	3	KED
	Y-1	89	14165.4	1.8				ug/L	15729	KED
	Rh-1	103	86095.7	0.9				ug/L	96361	KED
[	Cd-1	111	3.3	69.3	-0.0096	0.012	129.5	ug/L	6	KED
	Cd-1	114	0.1	2293.7	-0.0053	0.003	65.7	ug/L	3	KED
>	In-1	115	9071.4	0.8				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.900
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		92.409
>	Tb	159		93.338
	Ho	165		
	Pb	208		
	Bi	209		
[	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		89.393
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		90.177

Sample ID: MB1027F1 2X

Report Date/Time: Thursday, November 04, 2021 06:07:41

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Quantitative Analysis - Summary Report

Sample ID: SB1026F1 2X

Sample Date/Time: Thursday, October 28, 2021 12:53:24

Report Date/Time: Thursday, November 04, 2021 06:07:44

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\SB1026F1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	412970.1	3.4				ug/L	442531	Standard
[	Mn	55	595643.6	2.3	41.7785	0.470	1.1	ug/L	3212	Standard
	Ge	72	206503.2	2.0				ug/L	222138	Standard
	Y	89	537715.0	1.9				ug/L	555834	Standard
[	Rh	103	424143.6	1.8				ug/L	433909	Standard
[>	In	115	364104.6	0.6				ug/L	396664	Standard
[>	Tb	159	434685.6	0.3				ug/L	458426	Standard
|	Ho	165	446405.8	0.1				ug/L	470340	Standard
|	Pb	208	1401797.6	0.1	41.0147	0.135	0.3	ug/L	947	Standard
|	Bi	209	293285.8	0.8				ug/L	314405	Standard
[	Th	232	408530.1	0.4				ug/L	429805	Standard
[	Cr-1	52	34699.4	1.0	40.5529	0.463	1.1	ug/L	52	KED
|	Cr-1	53	4295.3	1.6	40.9510	0.404	1.0	ug/L	8	KED
[>	Ge-1	72	8239.4	1.1				ug/L	9175	KED
[	As-2	75	1909.8	2.5	40.9499	1.307	3.2	ug/L	3	KED
	Y-1	89	14544.1	0.5				ug/L	15729	KED
	Rh-1	103	86529.3	0.5				ug/L	96361	KED
[	Cd-1	111	7524.6	1.5	40.0775	0.674	1.7	ug/L	6	KED
|	Cd-1	114	19066.9	1.9	39.3388	1.055	2.7	ug/L	3	KED
[>	In-1	115	9230.9	2.4				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.320
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		91.792
[>	Tb	159		94.821
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		89.800
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		91.762

Sample ID: SB1026F1 2X

Report Date/Time: Thursday, November 04, 2021 06:07:44

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Quantitative Analysis - Summary Report

Sample ID: SB1027F1 2X

Sample Date/Time: Thursday, October 28, 2021 12:58:39

Report Date/Time: Thursday, November 04, 2021 06:07:46

Method File: C:\NexlONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X211028C\SB1027F1 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	397204.9	2.5				ug/L	442531	Standard
[	Mn	55	576370.8	2.4	42.0280	0.829	2.0	ug/L	3212	Standard
	Ge	72	199482.4	3.2				ug/L	222138	Standard
	Y	89	503754.7	1.4				ug/L	555834	Standard
[	Rh	103	396414.9	1.5				ug/L	433909	Standard
[>	In	115	353555.4	0.4				ug/L	396664	Standard
[>	Tb	159	415296.6	1.2				ug/L	458426	Standard
|	Ho	165	426768.5	0.5				ug/L	470340	Standard
|	Pb	208	1350220.9	0.2	41.3537	0.451	1.1	ug/L	947	Standard
|	Bi	209	283557.7	1.0				ug/L	314405	Standard
[	Th	232	393457.5	0.7				ug/L	429805	Standard
[	Cr-1	52	33693.7	0.4	40.1056	0.152	0.4	ug/L	52	KED
|	Cr-1	53	4238.6	2.1	41.1612	0.878	2.1	ug/L	8	KED
[>	Ge-1	72	8089.3	0.4				ug/L	9175	KED
[	As-2	75	1893.8	0.9	41.3534	0.299	0.7	ug/L	3	KED
	Y-1	89	14120.3	0.7				ug/L	15729	KED
	Rh-1	103	83658.2	0.6				ug/L	96361	KED
[	Cd-1	111	7202.1	1.1	40.1573	1.258	3.1	ug/L	6	KED
|	Cd-1	114	18624.7	0.8	40.2130	0.501	1.2	ug/L	3	KED
[>	In-1	115	8819.6	2.0				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		89.758
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		89.132
[>	Tb	159		90.592
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		88.164
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		87.674

Sample ID: SB1027F1 2X

Report Date/Time: Thursday, November 04, 2021 06:07:46

Quantitative Analysis - Summary Report

Sample ID: 10-244-01b 2X 26

Sample Date/Time: Thursday, October 28, 2021 13:03:22

Report Date/Time: Thursday, November 04, 2021 06:07:48

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-244-01b 2X 26.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	424168.8	1.3				ug/L	442531	Standard
[	Mn	55	2699361.2	1.9	185.0005	1.153	0.6	ug/L	3212	Standard
	Ge	72	185203.7	1.6				ug/L	222138	Standard
	Y	89	489756.1	0.4				ug/L	555834	Standard
[	Rh	103	361109.5	0.7				ug/L	433909	Standard
[>	In	115	323931.4	0.4				ug/L	396664	Standard
[>	Tb	159	397134.2	0.7				ug/L	458426	Standard
|	Ho	165	412846.6	0.6				ug/L	470340	Standard
|	Pb	208	2408.7	2.3	0.0509	0.002	4.4	ug/L	947	Standard
|	Bi	209	243914.4	0.4				ug/L	314405	Standard
[	Th	232	377988.3	1.4				ug/L	429805	Standard
[	Cr-1	52	862.7	2.3	1.0704	0.009	0.8	ug/L	52	KED
|	Cr-1	53	107.0	6.5	1.0706	0.087	8.1	ug/L	8	KED
[>	Ge-1	72	7395.6	2.0				ug/L	9175	KED
[	As-2	75	362.7	3.9	8.6233	0.508	5.9	ug/L	3	KED
	Y-1	89	13227.5	0.6				ug/L	15729	KED
	Rh-1	103	73658.8	1.5				ug/L	96361	KED
[	Cd-1	111	6.7	37.7	0.0131	0.015	117.3	ug/L	6	KED
|	Cd-1	114	1.5	304.2	-0.0018	0.011	612.0	ug/L	3	KED
[>	In-1	115	8040.5	0.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.851
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		81.664
[>	Tb	159		86.630
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		80.603
[	As-2	75		
	Y-1	89		
	Rh-1	103		
	Cd-1	111		
	Cd-1	114		
[>	In-1	115		79.928

Sample ID: 10-244-01b 2X 26

Report Date/Time: Thursday, November 04, 2021 06:07:48

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Quantitative Analysis - Summary Report

Sample ID: 10-244-02b 2X

Sample Date/Time: Thursday, October 28, 2021 13:08:05

Report Date/Time: Thursday, November 04, 2021 06:07:50

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-244-02b 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	443181.5	1.8				ug/L	442531	Standard
[	Mn	55	5384853.6	2.0	353.4297	3.564	1.0	ug/L	3212	Standard
	Ge	72	187077.6	2.8				ug/L	222138	Standard
	Y	89	501048.9	2.5				ug/L	555834	Standard
[	Rh	103	354986.6	3.2				ug/L	433909	Standard
[>	In	115	326404.7	0.5				ug/L	396664	Standard
[>	Tb	159	399590.0	1.9				ug/L	458426	Standard
	Ho	165	406703.1	1.7				ug/L	470340	Standard
	Pb	208	3448.8	2.1	0.0836	0.003	3.2	ug/L	947	Standard
	Bi	209	236901.2	1.9				ug/L	314405	Standard
	Th	232	374139.1	0.6				ug/L	429805	Standard
[	Cr-1	52	1886.8	0.6	2.3303	0.044	1.9	ug/L	52	KED
	Cr-1	53	221.7	13.3	2.2190	0.325	14.6	ug/L	8	KED
[>	Ge-1	72	7630.4	1.6				ug/L	9175	KED
[	As-2	75	237.3	2.3	5.4448	0.142	2.6	ug/L	3	KED
	Y-1	89	13855.0	0.7				ug/L	15729	KED
	Rh-1	103	75172.3	0.5				ug/L	96361	KED
[	Cd-1	111	4.3	26.6	-0.0021	0.007	349.5	ug/L	6	KED
	Cd-1	114	-4.6	126.4	-0.0158	0.013	82.9	ug/L	3	KED
[>	In-1	115	8332.8	1.7				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		100.147
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		82.288
[>	Tb	159		87.166
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		83.162
[	As-2	75		
	Y-1	89		
	Rh-1	103		
	Cd-1	111		
	Cd-1	114		
[>	In-1	115		82.834

Quantitative Analysis - Summary Report

Sample ID: 10-247-01a 2X 27

Sample Date/Time: Thursday, October 28, 2021 13:12:48

Report Date/Time: Thursday, November 04, 2021 06:07:52

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-247-01a 2X 27.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	420342.5	1.9				ug/L	442531	Standard
[	Mn	55	111624.8	1.8	7.5182	0.090	1.2	ug/L	3212	Standard
	Ge	72	209672.1	2.5				ug/L	222138	Standard
	Y	89	524909.5	2.2				ug/L	555834	Standard
[	Rh	103	401757.1	3.1				ug/L	433909	Standard
[>	In	115	370405.2	1.2				ug/L	396664	Standard
[>	Tb	159	430408.4	0.6				ug/L	458426	Standard
|	Ho	165	437392.5	1.5				ug/L	470340	Standard
|	Pb	208	3908.5	0.8	0.0893	0.002	1.8	ug/L	947	Standard
|	Bi	209	284192.8	0.9				ug/L	314405	Standard
[	Th	232	400170.8	0.4				ug/L	429805	Standard
[	Cr-1	52	177.0	8.3	0.1436	0.018	12.3	ug/L	52	KED
|	Cr-1	53	28.7	20.4	0.1928	0.053	27.5	ug/L	8	KED
[>	Ge-1	72	8626.3	0.6				ug/L	9175	KED
[	As-2	75	19.7	29.8	0.3452	0.119	34.6	ug/L	3	KED
	Y-1	89	14915.4	0.5				ug/L	15729	KED
	Rh-1	103	89035.3	0.7				ug/L	96361	KED
[	Cd-1	111	2.3	65.5	-0.0154	0.008	52.4	ug/L	6	KED
|	Cd-1	114	2.1	228.7	-0.0011	0.010	878.9	ug/L	3	KED
[>	In-1	115	9290.5	1.3				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.986
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		93.380
[>	Tb	159		93.888
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		94.016
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		92.355

Sample ID: 10-247-01a 2X 27

Report Date/Time: Thursday, November 04, 2021 06:07:52

Quantitative Analysis - Summary Report

Sample ID: 10-247-02a 2X

Sample Date/Time: Thursday, October 28, 2021 13:17:33

Report Date/Time: Thursday, November 04, 2021 06:07:55

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02a 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	421565.6	3.3				ug/L	442531	Standard
[	Mn	55	340494.7	1.7	23.3048	0.380	1.6	ug/L	3212	Standard
	Ge	72	206343.1	2.5				ug/L	222138	Standard
	Y	89	505761.4	1.7				ug/L	555834	Standard
[	Rh	103	392987.3	1.3				ug/L	433909	Standard
[>	In	115	360603.5	1.1				ug/L	396664	Standard
[>	Tb	159	424270.1	0.5				ug/L	458426	Standard
|	Ho	165	434583.5	0.9				ug/L	470340	Standard
|	Pb	208	3634.8	0.5	0.0827	0.001	0.6	ug/L	947	Standard
|	Bi	209	282852.4	0.2				ug/L	314405	Standard
[	Th	232	401771.1	0.5				ug/L	429805	Standard
|	Cr-1	52	156.7	14.4	0.1262	0.028	22.5	ug/L	52	KED
|	Cr-1	53	22.3	10.3	0.1410	0.019	13.8	ug/L	8	KED
[>	Ge-1	72	8378.5	1.3				ug/L	9175	KED
[	As-2	75	14.3	10.7	0.2447	0.030	12.3	ug/L	3	KED
	Y-1	89	14558.7	1.2				ug/L	15729	KED
	Rh-1	103	86781.8	0.5				ug/L	96361	KED
[	Cd-1	111	2.0	50.0	-0.0171	0.005	30.9	ug/L	6	KED
|	Cd-1	114	6.4	103.7	0.0078	0.014	177.2	ug/L	3	KED
[>	In-1	115	9239.5	1.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.262
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		90.909
[>	Tb	159		92.549
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		91.316
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		91.848

Sample ID: 10-247-02a 2X

Report Date/Time: Thursday, November 04, 2021 06:07:55

Quantitative Analysis - Summary Report

Sample ID: 10-247-02aD 2X

Sample Date/Time: Thursday, October 28, 2021 13:24:45

Report Date/Time: Thursday, November 04, 2021 06:07:56

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aD 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	413386.2	1.0				ug/L	442531	Standard
[	Mn	55	350842.0	0.7	24.4909	0.158	0.6	ug/L	3212	Standard
	Ge	72	206842.3	1.9				ug/L	222138	Standard
	Y	89	511040.1	3.5				ug/L	555834	Standard
[	Rh	103	391669.5	2.6				ug/L	433909	Standard
[>	In	115	353436.9	0.5				ug/L	396664	Standard
[>	Tb	159	419363.4	0.6				ug/L	458426	Standard
|	Ho	165	429085.0	0.2				ug/L	470340	Standard
|	Pb	208	3743.9	2.2	0.0873	0.002	2.1	ug/L	947	Standard
|	Bi	209	281248.4	1.0				ug/L	314405	Standard
[	Th	232	392605.1	0.3				ug/L	429805	Standard
[	Cr-1	52	161.3	7.5	0.1333	0.014	10.4	ug/L	52	KED
|	Cr-1	53	20.3	32.7	0.1243	0.063	50.5	ug/L	8	KED
[>	Ge-1	72	8289.7	0.4				ug/L	9175	KED
[	As-2	75	13.7	11.2	0.2338	0.033	14.2	ug/L	3	KED
	Y-1	89	14573.4	0.4				ug/L	15729	KED
	Rh-1	103	85829.7	0.3				ug/L	96361	KED
[	Cd-1	111	4.3	35.3	-0.0051	0.008	158.5	ug/L	6	KED
|	Cd-1	114	1.2	208.3	-0.0030	0.005	167.7	ug/L	3	KED
[>	In-1	115	9447.4	0.9				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.414
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		89.102
[>	Tb	159		91.479
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		90.349
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		93.914

Sample ID: 10-247-02aD 2X

Report Date/Time: Thursday, November 04, 2021 06:07:56

Quantitative Analysis - Summary Report

Sample ID: 10-247-02aL 10X

Sample Date/Time: Thursday, October 28, 2021 13:29:29

Report Date/Time: Thursday, November 04, 2021 06:07:58

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aL 10X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	411181.8	0.9				ug/L	442531	Standard
[	Mn	55	69895.7	2.9	4.7357	0.105	2.2	ug/L	3212	Standard
	Ge	72	207877.9	1.9				ug/L	222138	Standard
	Y	89	513566.5	0.7				ug/L	555834	Standard
[	Rh	103	397791.6	3.5				ug/L	433909	Standard
[>	In	115	362728.6	0.5				ug/L	396664	Standard
[>	Tb	159	422304.4	0.1				ug/L	458426	Standard
	Ho	165	434497.7	0.4				ug/L	470340	Standard
	Pb	208	1031.7	3.7	0.0048	0.001	24.7	ug/L	947	Standard
	Bi	209	286363.3	0.1				ug/L	314405	Standard
	Th	232	395881.7	0.2				ug/L	429805	Standard
[	Cr-1	52	70.7	12.0	0.0266	0.009	35.6	ug/L	52	KED
	Cr-1	53	8.7	24.0	0.0123	0.019	156.1	ug/L	8	KED
[>	Ge-1	72	8423.5	0.4				ug/L	9175	KED
[	As-2	75	3.7	15.7	0.0191	0.012	61.9	ug/L	3	KED
	Y-1	89	14738.9	1.9				ug/L	15729	KED
	Rh-1	103	88161.9	0.7				ug/L	96361	KED
[	Cd-1	111	3.0	57.7	-0.0122	0.009	72.4	ug/L	6	KED
	Cd-1	114	1.2	141.0	-0.0030	0.003	112.4	ug/L	3	KED
[>	In-1	115	9513.0	1.0				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.916
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		91.445
[>	Tb	159		92.120
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		91.806
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		94.567

Sample ID: 10-247-02aL 10X

Report Date/Time: Thursday, November 04, 2021 06:07:58

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, October 28, 2021 13:34:13

Report Date/Time: Thursday, November 04, 2021 06:08:00

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	394055.1	2.9				ug/L	442531	Standard
[	Mn	55	556373.0	0.7	40.9000	0.910	2.2	ug/L	3212	Standard
	Ge	72	199180.9	1.7				ug/L	222138	Standard
	Y	89	485696.1	2.1				ug/L	555834	Standard
[	Rh	103	374466.1	1.8				ug/L	433909	Standard
[>	In	115	345286.7	1.1				ug/L	396664	Standard
[>	Tb	159	407466.7	1.4				ug/L	458426	Standard
|	Ho	165	416956.6	0.8				ug/L	470340	Standard
|	Pb	208	1326856.1	0.4	41.4206	0.578	1.4	ug/L	947	Standard
|	Bi	209	275256.6	0.8				ug/L	314405	Standard
[	Th	232	381296.3	0.5				ug/L	429805	Standard
[	Cr-1	52	33681.0	1.1	40.2759	0.978	2.4	ug/L	52	KED
|	Cr-1	53	4104.6	2.1	40.0601	1.920	4.8	ug/L	8	KED
[>	Ge-1	72	8055.3	2.7				ug/L	9175	KED
[	As-2	75	1891.8	2.6	41.4879	0.577	1.4	ug/L	3	KED
	Y-1	89	14000.5	0.9				ug/L	15729	KED
	Rh-1	103	84089.4	1.0				ug/L	96361	KED
[	Cd-1	111	7418.3	0.5	40.6449	0.626	1.5	ug/L	6	KED
|	Cd-1	114	18880.2	0.9	40.0648	0.411	1.0	ug/L	3	KED
[>	In-1	115	8973.0	1.5				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		89.046
[	Mn	55	102.250	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.048
[>	Tb	159		88.884
|	Ho	165		
|	Pb	208	103.551	
|	Bi	209		
|	Th	232		
|	Cr-1	52	100.690	
|	Cr-1	53	100.150	
[>	Ge-1	72		87.793
[	As-2	75	103.720	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.612	
|	Cd-1	114	100.162	
[>	In-1	115		89.198

Sample ID: QC Std 6

Report Date/Time: Thursday, November 04, 2021 06:08:00

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Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, October 28, 2021 13:38:57
 Report Date/Time: Thursday, November 04, 2021 06:08:03
 Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	383796.9	2.9				ug/L	442531	Standard
[	Mn	55	278566.5	3.2	20.9142	0.358	1.7	ug/L	3212	Standard
	Ge	72	191107.6	3.7				ug/L	222138	Standard
	Y	89	471672.4	2.0				ug/L	555834	Standard
[	Rh	103	370618.8	0.7				ug/L	433909	Standard
[>	In	115	339209.0	0.4				ug/L	396664	Standard
[>	Tb	159	393439.0	0.6				ug/L	458426	Standard
|	Ho	165	405572.6	0.5				ug/L	470340	Standard
|	Pb	208	644916.3	0.4	20.8348	0.123	0.6	ug/L	947	Standard
|	Bi	209	270279.2	0.2				ug/L	314405	Standard
[	Th	232	375573.2	1.0				ug/L	429805	Standard
[	Cr-1	52	16519.2	0.7	19.8779	0.197	1.0	ug/L	52	KED
|	Cr-1	53	2076.5	0.9	20.3780	0.118	0.6	ug/L	8	KED
[>	Ge-1	72	7990.9	0.3				ug/L	9175	KED
[	As-2	75	901.4	5.8	19.8936	1.112	5.6	ug/L	3	KED
	Y-1	89	13904.8	1.7				ug/L	15729	KED
	Rh-1	103	82310.1	0.5				ug/L	96361	KED
[	Cd-1	111	3597.1	1.0	20.0225	0.090	0.5	ug/L	6	KED
|	Cd-1	114	9345.6	1.5	20.1604	0.250	1.2	ug/L	3	KED
[>	In-1	115	8824.9	1.0				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		86.728
[	Mn	55	104.571	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		85.516
[>	Tb	159		85.824
|	Ho	165		
|	Pb	208	104.174	
|	Bi	209		
|	Th	232		
|	Cr-1	52	99.389	
|	Cr-1	53	101.890	
[>	Ge-1	72		87.092
[	As-2	75	99.468	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	100.113	
|	Cd-1	114	100.802	
[>	In-1	115		87.726

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, October 28, 2021 13:43:42

Report Date/Time: Thursday, November 04, 2021 06:08:05

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	422626.2	2.5				ug/L	442531	Standard
[	Mn	55	3176.7	1.5	0.0076	0.005	64.0	ug/L	3212	Standard
	Ge	72	207982.8	1.0				ug/L	222138	Standard
	Y	89	519186.3	2.6				ug/L	555834	Standard
[	Rh	103	403148.4	3.1				ug/L	433909	Standard
>	In	115	366866.1	1.5				ug/L	396664	Standard
>	Tb	159	427605.3	0.1				ug/L	458426	Standard
|	Ho	165	431667.6	1.1				ug/L	470340	Standard
|	Pb	208	946.7	3.1	0.0019	0.001	47.7	ug/L	947	Standard
|	Bi	209	288962.0	0.7				ug/L	314405	Standard
[	Th	232	402194.1	1.1				ug/L	429805	Standard
[	Cr-1	52	50.0	15.6	0.0016	0.009	529.3	ug/L	52	KED
|	Cr-1	53	5.0	20.0	-0.0229	0.010	41.7	ug/L	8	KED
>	Ge-1	72	8619.6	1.2				ug/L	9175	KED
[	As-2	75	3.7	15.7	0.0175	0.012	71.1	ug/L	3	KED
	Y-1	89	14834.0	1.1				ug/L	15729	KED
	Rh-1	103	88924.3	0.8				ug/L	96361	KED
[	Cd-1	111	3.7	31.5	-0.0091	0.006	66.8	ug/L	6	KED
|	Cd-1	114	5.5	20.1	0.0054	0.002	41.5	ug/L	3	KED
>	In-1	115	9701.1	1.0				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		95.502
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		92.488
>	Tb	159		93.277
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		93.944
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		96.437

Sample ID: QC Std 8

Report Date/Time: Thursday, November 04, 2021 06:08:05

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Quantitative Analysis - Summary Report

Sample ID: 10-247-02aMS 2X

Sample Date/Time: Thursday, October 28, 2021 13:48:38

Report Date/Time: Thursday, November 04, 2021 06:08:07

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aMS 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	427471.1	2.3				ug/L	442531	Standard
[	Mn	55	905801.6	2.6	61.4703	1.561	2.5	ug/L	3212	Standard
	Ge	72	204893.6	3.7				ug/L	222138	Standard
	Y	89	507724.0	2.7				ug/L	555834	Standard
[	Rh	103	394856.4	1.9				ug/L	433909	Standard
[>	In	115	356947.9	0.4				ug/L	396664	Standard
[>	Tb	159	419764.1	1.3				ug/L	458426	Standard
[	Ho	165	427019.2	0.5				ug/L	470340	Standard
|	Pb	208	1312506.0	0.2	39.7701	0.444	1.1	ug/L	947	Standard
|	Bi	209	283668.0	0.1				ug/L	314405	Standard
[	Th	232	404222.3	0.8				ug/L	429805	Standard
[	Cr-1	52	33925.9	0.6	38.7752	0.855	2.2	ug/L	52	KED
|	Cr-1	53	4109.9	2.3	38.3295	1.591	4.1	ug/L	8	KED
[>	Ge-1	72	8426.5	2.0				ug/L	9175	KED
[	As-2	75	1892.8	2.9	39.6961	1.767	4.5	ug/L	3	KED
	Y-1	89	14936.8	0.7				ug/L	15729	KED
	Rh-1	103	86260.7	0.6				ug/L	96361	KED
[	Cd-1	111	7387.2	1.2	38.4313	0.963	2.5	ug/L	6	KED
|	Cd-1	114	18861.5	1.9	38.0060	1.007	2.6	ug/L	3	KED
[>	In-1	115	9450.4	1.4				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.597
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		89.988
[>	Tb	159		91.566
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		91.839
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		93.945

Sample ID: 10-247-02aMS 2X

Report Date/Time: Thursday, November 04, 2021 06:08:07

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Quantitative Analysis - Summary Report

Sample ID: 10-247-02aMSD 2X

Sample Date/Time: Thursday, October 28, 2021 13:53:22

Report Date/Time: Thursday, November 04, 2021 06:08:09

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-247-02aMSD 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	421436.3	1.3				ug/L	442531	Standard
[	Mn	55	894834.2	1.6	61.5869	0.523	0.8	ug/L	3212	Standard
	Ge	72	203926.5	1.9				ug/L	222138	Standard
	Y	89	505653.6	2.1				ug/L	555834	Standard
[	Rh	103	389410.8	3.1				ug/L	433909	Standard
[>	In	115	351255.5	0.5				ug/L	396664	Standard
[>	Tb	159	415851.5	0.4				ug/L	458426	Standard
|	Ho	165	426162.5	1.4				ug/L	470340	Standard
|	Pb	208	1324023.7	0.6	40.4939	0.383	0.9	ug/L	947	Standard
|	Bi	209	280657.8	0.7				ug/L	314405	Standard
[	Th	232	397481.2	0.3				ug/L	429805	Standard
[	Cr-1	52	33531.0	0.6	39.5471	0.577	1.5	ug/L	52	KED
|	Cr-1	53	4125.9	1.5	39.6955	0.465	1.2	ug/L	8	KED
[>	Ge-1	72	8164.7	1.3				ug/L	9175	KED
[	As-2	75	1841.5	1.1	39.8382	0.139	0.3	ug/L	3	KED
	Y-1	89	14392.9	1.4				ug/L	15729	KED
	Rh-1	103	83816.5	0.3				ug/L	96361	KED
[	Cd-1	111	7265.5	1.5	39.0302	0.906	2.3	ug/L	6	KED
|	Cd-1	114	18559.6	0.4	38.6173	0.594	1.5	ug/L	3	KED
[>	In-1	115	9151.5	1.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.233
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		88.553
[>	Tb	159		90.713
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		88.985
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		90.973

Sample ID: 10-247-02aMSD 2X

Report Date/Time: Thursday, November 04, 2021 06:08:09

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Quantitative Analysis - Summary Report

Sample ID: 10-231-01d 2X

Sample Date/Time: Thursday, October 28, 2021 13:58:06

Report Date/Time: Thursday, November 04, 2021 06:08:11

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-01d 2X.031

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode	
[>	Sc	45	439501.5	2.1			ug/L	442531	Standard	
[Mn	55	894667.1	2.1	59.0374	0.516	0.9	ug/L	3212	Standard
	Ge	72	191081.6	1.3			ug/L	222138	Standard	
	Y	89	490514.8	2.4			ug/L	555834	Standard	
[	Rh	103	363748.9	2.2			ug/L	433909	Standard
[>	In	115	326482.0	0.4			ug/L	396664	Standard	
[>	Tb	159	395138.6	0.5			ug/L	458426	Standard	
|	Ho	165	403357.2	1.4			ug/L	470340	Standard	
|	Pb	208	1822.7	1.8	0.0324	0.001	3.8	ug/L	947	Standard
|	Bi	209	252856.7	1.3			ug/L	314405	Standard	
[	Th	232	371992.3	1.5			ug/L	429805	Standard
[Cr-1	52	1047.0	3.6	1.2206	0.052	4.2	ug/L	52	KED
|	Cr-1	53	145.7	11.7	1.3779	0.157	11.4	ug/L	8	KED
[>	Ge-1	72	7919.5	1.0			ug/L	9175	KED	
[As-2	75	59.3	3.9	1.2674	0.049	3.8	ug/L	3	KED
	Y-1	89	14291.1	1.1			ug/L	15729	KED	
	Rh-1	103	78862.1	1.7			ug/L	96361	KED	
[Cd-1	111	2.3	89.2	-0.0148	0.011	77.6	ug/L	6	KED
|	Cd-1	114	2.8	92.6	0.0005	0.006	1050.7	ug/L	3	KED
[>	In-1	115	8816.2	1.5			ug/L	10060	KED	

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45	99.315
[	Mn	55	
	Ge	72	
	Y	89	
[	Rh	103	
[>	In	115	82.307
[>	Tb	159	86.195
|	Ho	165	
|	Pb	208	
|	Bi	209	
|	Th	232	
|	Cr-1	52	
|	Cr-1	53	
[>	Ge-1	72	86.314
[	As-2	75	
	Y-1	89	
	Rh-1	103	
[	Cd-1	111	
|	Cd-1	114	
[>	In-1	115	87.640

Sample ID: 10-231-01d 2X

Report Date/Time: Thursday, November 04, 2021 06:08:11

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Quantitative Analysis - Summary Report

Sample ID: 10-231-02d 2X

Sample Date/Time: Thursday, October 28, 2021 14:02:49

Report Date/Time: Thursday, November 04, 2021 06:08:14

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-02d 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	429327.5	1.3				ug/L	442531	Standard
[	Mn	55	439291.5	2.7	29.5656	0.449	1.5	ug/L	3212	Standard
	Ge	72	182170.0	1.8				ug/L	222138	Standard
	Y	89	471649.2	0.4				ug/L	555834	Standard
[	Rh	103	341470.9	1.1				ug/L	433909	Standard
[>	In	115	324680.3	0.5				ug/L	396664	Standard
[>	Tb	159	388447.3	0.9				ug/L	458426	Standard
	Ho	165	403276.2	0.3				ug/L	470340	Standard
	Pb	208	4246.6	1.2	0.1128	0.002	1.5	ug/L	947	Standard
	Bi	209	238430.0	0.9				ug/L	314405	Standard
[	Th	232	370769.2	0.3				ug/L	429805	Standard
	Cr-1	52	1808.1	1.7	2.1433	0.028	1.3	ug/L	52	KED
	Cr-1	53	223.3	2.5	2.1467	0.055	2.6	ug/L	8	KED
[>	Ge-1	72	7932.9	0.9				ug/L	9175	KED
[	As-2	75	73.3	5.5	1.5770	0.078	4.9	ug/L	3	KED
	Y-1	89	14408.9	1.0				ug/L	15729	KED
	Rh-1	103	76870.9	0.6				ug/L	96361	KED
[	Cd-1	111	2.0	50.0	-0.0163	0.006	35.0	ug/L	6	KED
	Cd-1	114	8.3	11.9	0.0129	0.002	16.7	ug/L	3	KED
[>	In-1	115	8594.6	0.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		97.016
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		81.853
[>	Tb	159		84.735
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		86.459
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		85.437

Quantitative Analysis - Summary Report

Sample ID: 10-231-03d 2X

Sample Date/Time: Thursday, October 28, 2021 14:07:33

Report Date/Time: Thursday, November 04, 2021 06:08:15

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-03d 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	421318.6	1.9				ug/L	442531	Standard
[	Mn	55	479901.3	1.7	32.9414	0.075	0.2	ug/L	3212	Standard
	Ge	72	191647.8	1.4				ug/L	222138	Standard
	Y	89	476972.6	4.2				ug/L	555834	Standard
[	Rh	103	356477.6	1.9				ug/L	433909	Standard
[>	In	115	326818.8	0.9				ug/L	396664	Standard
[>	Tb	159	392679.8	0.2				ug/L	458426	Standard
[	Ho	165	398411.3	0.6				ug/L	470340	Standard
|	Pb	208	904.3	2.7	0.0030	0.001	26.8	ug/L	947	Standard
|	Bi	209	249481.3	0.5				ug/L	314405	Standard
[	Th	232	370708.7	0.5				ug/L	429805	Standard
[	Cr-1	52	197.3	3.7	0.1819	0.011	6.2	ug/L	52	KED
|	Cr-1	53	28.3	19.4	0.2082	0.054	26.0	ug/L	8	KED
[>	Ge-1	72	8057.6	1.3				ug/L	9175	KED
[	As-2	75	17.0	5.9	0.3156	0.027	8.5	ug/L	3	KED
	Y-1	89	14095.6	1.0				ug/L	15729	KED
	Rh-1	103	79712.1	1.4				ug/L	96361	KED
[	Cd-1	111	3.3	45.8	-0.0092	0.009	94.9	ug/L	6	KED
|	Cd-1	114	4.3	83.3	0.0039	0.008	200.9	ug/L	3	KED
[>	In-1	115	8888.8	2.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.207
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		82.392
[>	Tb	159		85.658
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		87.819
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		88.362

Quantitative Analysis - Summary Report

Sample ID: 10-231-04d 2X

Sample Date/Time: Thursday, October 28, 2021 14:12:16

Report Date/Time: Thursday, November 04, 2021 06:08:17

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-04d 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	461252.3	1.3				ug/L	442531	Standard
[	Mn	55	12159294.5	2.0	766.9914	5.850	0.8	ug/L	3212	Standard
	Ge	72	203190.6	1.0				ug/L	222138	Standard
	Y	89	520432.0	2.3				ug/L	555834	Standard
[	Rh	103	377551.7	3.1				ug/L	433909	Standard
[>	In	115	343879.3	0.7				ug/L	396664	Standard
[>	Tb	159	414647.2	0.9				ug/L	458426	Standard
|	Ho	165	420318.9	0.7				ug/L	470340	Standard
|	Pb	208	789.0	3.1	-0.0021	0.001	38.2	ug/L	947	Standard
|	Bi	209	266663.3	1.7				ug/L	314405	Standard
[	Th	232	390458.8	0.4				ug/L	429805	Standard
[	Cr-1	52	866.0	0.8	0.9599	0.013	1.4	ug/L	52	KED
|	Cr-1	53	90.7	15.7	0.7980	0.137	17.2	ug/L	8	KED
[>	Ge-1	72	8233.4	0.6				ug/L	9175	KED
[	As-2	75	133.7	6.1	2.8145	0.189	6.7	ug/L	3	KED
	Y-1	89	14887.1	1.8				ug/L	15729	KED
	Rh-1	103	82280.3	0.8				ug/L	96361	KED
[	Cd-1	111	3.0	88.2	-0.0119	0.014	115.2	ug/L	6	KED
|	Cd-1	114	3.6	96.8	0.0019	0.007	379.1	ug/L	3	KED
[>	In-1	115	9321.2	1.5				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		104.230
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		86.693
[>	Tb	159		90.450
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		89.734
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		92.660

Sample ID: 10-231-04d 2X

Report Date/Time: Thursday, November 04, 2021 06:08:17

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Quantitative Analysis - Summary Report

Sample ID: 10-231-05d 2X

Sample Date/Time: Thursday, October 28, 2021 14:16:59

Report Date/Time: Thursday, November 04, 2021 06:08:19

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-05d 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	439704.4	1.3				ug/L	442531	Standard
[	Mn	55	1412719.4	1.2	93.3013	0.490	0.5	ug/L	3212	Standard
	Ge	72	198816.4	1.4				ug/L	222138	Standard
	Y	89	501174.9	1.5				ug/L	555834	Standard
[	Rh	103	374998.8	3.0				ug/L	433909	Standard
[>	In	115	342284.4	0.8				ug/L	396664	Standard
[>	Tb	159	406084.8	0.4				ug/L	458426	Standard
|	Ho	165	415834.1	1.4				ug/L	470340	Standard
|	Pb	208	1097.7	0.4	0.0081	0.000	1.5	ug/L	947	Standard
|	Bi	209	261298.0	0.2				ug/L	314405	Standard
[	Th	232	388179.5	0.8				ug/L	429805	Standard
[	Cr-1	52	861.0	3.1	0.9697	0.042	4.4	ug/L	52	KED
|	Cr-1	53	106.7	7.0	0.9660	0.064	6.7	ug/L	8	KED
[>	Ge-1	72	8111.0	2.3				ug/L	9175	KED
[	As-2	75	69.0	17.6	1.4453	0.250	17.3	ug/L	3	KED
	Y-1	89	14721.6	1.7				ug/L	15729	KED
	Rh-1	103	81913.5	1.3				ug/L	96361	KED
[	Cd-1	111	4.0	66.1	-0.0063	0.014	226.3	ug/L	6	KED
|	Cd-1	114	5.6	93.9	0.0062	0.011	176.5	ug/L	3	KED
[>	In-1	115	9228.2	0.9				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		99.361
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		86.291
[>	Tb	159		88.582
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		88.400
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		91.735

Quantitative Analysis - Summary Report

Sample ID: 10-231-06d 2X

Sample Date/Time: Thursday, October 28, 2021 14:21:43

Report Date/Time: Thursday, November 04, 2021 06:08:21

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-06d 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	423705.3	2.9				ug/L	442531	Standard
[	Mn	55	2195768.7	1.3	150.6680	2.687	1.8	ug/L	3212	Standard
	Ge	72	200281.9	3.5				ug/L	222138	Standard
	Y	89	495875.0	3.0				ug/L	555834	Standard
[	Rh	103	372518.8	1.8				ug/L	433909	Standard
[>	In	115	341305.2	1.2				ug/L	396664	Standard
[>	Tb	159	405026.7	0.9				ug/L	458426	Standard
|	Ho	165	417390.1	0.4				ug/L	470340	Standard
|	Pb	208	538.3	2.2	-0.0094	0.000	2.4	ug/L	947	Standard
|	Bi	209	263560.4	0.4				ug/L	314405	Standard
[	Th	232	393107.8	0.8				ug/L	429805	Standard
[	Cr-1	52	479.7	3.7	0.5109	0.023	4.5	ug/L	52	KED
|	Cr-1	53	68.7	15.6	0.5934	0.120	20.2	ug/L	8	KED
[>	Ge-1	72	8185.3	2.5				ug/L	9175	KED
[	As-2	75	55.3	10.6	1.1383	0.127	11.1	ug/L	3	KED
	Y-1	89	14616.8	0.9				ug/L	15729	KED
	Rh-1	103	81869.6	0.7				ug/L	96361	KED
[	Cd-1	111	4.3	53.3	-0.0045	0.012	269.4	ug/L	6	KED
|	Cd-1	114	5.5	78.8	0.0059	0.009	148.0	ug/L	3	KED
[>	In-1	115	9131.0	1.4				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.746
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		86.044
[>	Tb	159		88.352
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		89.211
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		90.770

Quantitative Analysis - Summary Report

Sample ID: 10-231-07d 2X

Sample Date/Time: Thursday, October 28, 2021 14:26:26

Report Date/Time: Thursday, November 04, 2021 06:08:24

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-07d 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	473823.7	2.7				ug/L	442531	Standard
[	Mn	55	23947272.8	4.1	1470.4216	22.009	1.5	ug/L	3212	Standard
	Ge	72	196248.7	1.7				ug/L	222138	Standard
	Y	89	506495.6	1.8				ug/L	555834	Standard
[	Rh	103	370557.1	2.7				ug/L	433909	Standard
[>	In	115	324544.6	0.8				ug/L	396664	Standard
[>	Tb	159	403968.8	0.5				ug/L	458426	Standard
[	Ho	165	413603.9	0.9				ug/L	470340	Standard
|	Pb	208	1768.4	1.3	0.0294	0.001	3.1	ug/L	947	Standard
|	Bi	209	248900.2	0.2				ug/L	314405	Standard
[	Th	232	386059.5	0.8				ug/L	429805	Standard
[	Cr-1	52	779.0	2.2	0.9073	0.019	2.1	ug/L	52	KED
|	Cr-1	53	101.0	11.0	0.9490	0.113	11.9	ug/L	8	KED
[>	Ge-1	72	7810.8	1.0				ug/L	9175	KED
[	As-2	75	121.7	4.1	2.6979	0.123	4.6	ug/L	3	KED
	Y-1	89	14430.3	1.2				ug/L	15729	KED
	Rh-1	103	77817.7	1.1				ug/L	96361	KED
[	Cd-1	111	3.3	17.3	-0.0093	0.003	32.0	ug/L	6	KED
|	Cd-1	114	7.4	43.6	0.0104	0.007	67.2	ug/L	3	KED
[>	In-1	115	8895.5	1.1				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.071
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		81.819
[>	Tb	159		88.121
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		85.129
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		88.428

Sample ID: 10-231-07d 2X

Report Date/Time: Thursday, November 04, 2021 06:08:24

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Quantitative Analysis - Summary Report

Sample ID: 10-231-08d 2X

Sample Date/Time: Thursday, October 28, 2021 14:31:11

Report Date/Time: Thursday, November 04, 2021 06:08:26

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-08d 2X.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	469333.0	2.0				ug/L	442531	Standard
[	Mn	55	940443.7	3.9	58.0945	1.071	1.8	ug/L	3212	Standard
	Ge	72	206355.9	3.5				ug/L	222138	Standard
	Y	89	517502.6	2.0				ug/L	555834	Standard
[	Rh	103	384840.6	1.3				ug/L	433909	Standard
[>	In	115	345735.7	0.8				ug/L	396664	Standard
[>	Tb	159	413930.0	1.4				ug/L	458426	Standard
	Ho	165	424412.9	1.1				ug/L	470340	Standard
	Pb	208	1211.7	7.8	0.0109	0.002	22.0	ug/L	947	Standard
	Bi	209	264404.4	0.4				ug/L	314405	Standard
[	Th	232	393223.8	0.3				ug/L	429805	Standard
[	Cr-1	52	1121.7	3.4	1.1956	0.042	3.5	ug/L	52	KED
	Cr-1	53	128.3	2.2	1.0987	0.039	3.5	ug/L	8	KED
[>	Ge-1	72	8653.0	1.1				ug/L	9175	KED
[	As-2	75	67.7	14.6	1.3260	0.208	15.7	ug/L	3	KED
	Y-1	89	15422.7	0.9				ug/L	15729	KED
	Rh-1	103	85848.9	0.7				ug/L	96361	KED
[	Cd-1	111	3.0	57.7	-0.0123	0.009	72.6	ug/L	6	KED
	Cd-1	114	3.7	40.8	0.0019	0.003	150.3	ug/L	3	KED
[>	In-1	115	9626.5	1.2				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		106.057
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.161
[>	Tb	159		90.294
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		94.307
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		95.695

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, October 28, 2021 14:35:56

Report Date/Time: Thursday, November 04, 2021 06:08:28

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	398443.9	1.5				ug/L	442531	Standard
[	Mn	55	568802.3	1.5	41.3382	0.184	0.4	ug/L	3212	Standard
	Ge	72	200883.2	0.5				ug/L	222138	Standard
	Y	89	495455.1	1.7				ug/L	555834	Standard
[	Rh	103	383169.5	3.3				ug/L	433909	Standard
[>	In	115	348953.3	0.6				ug/L	396664	Standard
[>	Tb	159	402566.6	1.0				ug/L	458426	Standard
|	Ho	165	415203.9	0.8				ug/L	470340	Standard
|	Pb	208	1327117.6	0.7	41.9305	0.470	1.1	ug/L	947	Standard
|	Bi	209	276464.9	0.6				ug/L	314405	Standard
[	Th	232	376122.8	0.6				ug/L	429805	Standard
[	Cr-1	52	34967.7	0.7	39.7221	0.293	0.7	ug/L	52	KED
|	Cr-1	53	4303.3	2.4	39.8794	0.913	2.3	ug/L	8	KED
[>	Ge-1	72	8476.5	1.2				ug/L	9175	KED
[	As-2	75	1963.5	5.0	40.9202	2.102	5.1	ug/L	3	KED
	Y-1	89	14807.7	1.3				ug/L	15729	KED
	Rh-1	103	86980.3	0.5				ug/L	96361	KED
[	Cd-1	111	7739.1	1.2	40.0726	1.032	2.6	ug/L	6	KED
|	Cd-1	114	19986.3	1.3	40.0806	0.821	2.0	ug/L	3	KED
[>	In-1	115	9495.4	1.4				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		90.038
[	Mn	55	103.346	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.972
[>	Tb	159		87.815
	Ho	165		
|	Pb	208	104.826	
|	Bi	209		
[	Th	232		
|	Cr-1	52	99.305	
|	Cr-1	53	99.699	
[>	Ge-1	72		92.384
[	As-2	75	102.301	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	100.181	
|	Cd-1	114	100.202	
[>	In-1	115		94.392

Sample ID: QC Std 6

Report Date/Time: Thursday, November 04, 2021 06:08:28

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Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, October 28, 2021 14:40:40

Report Date/Time: Thursday, November 04, 2021 06:08:30

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	393151.2	1.8				ug/L	442531	Standard
[	Mn	55	284152.4	2.3	20.8232	0.105	0.5	ug/L	3212	Standard
	Ge	72	198488.3	3.7				ug/L	222138	Standard
	Y	89	477616.2	2.3				ug/L	555834	Standard
[	Rh	103	378815.7	2.2				ug/L	433909	Standard
[>	In	115	339581.5	1.1				ug/L	396664	Standard
[>	Tb	159	390391.1	0.6				ug/L	458426	Standard
[	Ho	165	399001.6	0.9				ug/L	470340	Standard
[	Pb	208	638022.2	0.2	20.7731	0.133	0.6	ug/L	947	Standard
[	Bi	209	267915.6	0.1				ug/L	314405	Standard
[	Th	232	371491.3	1.2				ug/L	429805	Standard
[	Cr-1	52	16948.0	0.6	19.4303	0.421	2.2	ug/L	52	KED
[	Cr-1	53	2131.5	2.7	19.9311	0.723	3.6	ug/L	8	KED
[>	Ge-1	72	8388.5	1.7				ug/L	9175	KED
[	As-2	75	990.0	2.8	20.8193	0.466	2.2	ug/L	3	KED
	Y-1	89	14681.9	0.2				ug/L	15729	KED
	Rh-1	103	85611.8	0.7				ug/L	96361	KED
[	Cd-1	111	3808.2	1.1	20.3160	0.602	3.0	ug/L	6	KED
[	Cd-1	114	9649.2	1.2	19.9502	0.641	3.2	ug/L	3	KED
[>	In-1	115	9211.5	2.1				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		88.841
[	Mn	55	104.116	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		85.609
[>	Tb	159		85.159
	Ho	165		
	Pb	208	103.866	
	Bi	209		
	Th	232		
	Cr-1	52	97.151	
	Cr-1	53	99.656	
[>	Ge-1	72		91.425
[	As-2	75	104.096	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.580	
[	Cd-1	114	99.751	
[>	In-1	115		91.569

Sample ID: QC Std 7

Report Date/Time: Thursday, November 04, 2021 06:08:30

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Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, October 28, 2021 14:45:25

Report Date/Time: Thursday, November 04, 2021 06:08:32

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	426733.4	2.8				ug/L	442531	Standard
[	Mn	55	3239.4	3.5	0.0097	0.005	47.9	ug/L	3212	Standard
	Ge	72	214821.5	2.6				ug/L	222138	Standard
	Y	89	517694.0	3.1				ug/L	555834	Standard
[	Rh	103	407438.8	1.8				ug/L	433909	Standard
[>	In	115	363481.8	0.9				ug/L	396664	Standard
[>	Tb	159	425869.7	1.1				ug/L	458426	Standard
[	Ho	165	430735.3	1.6				ug/L	470340	Standard
|	Pb	208	922.0	3.5	0.0013	0.001	86.6	ug/L	947	Standard
|	Bi	209	285315.5	1.6				ug/L	314405	Standard
[	Th	232	396606.4	0.4				ug/L	429805	Standard
|	Cr-1	52	61.7	6.6	0.0119	0.005	40.7	ug/L	52	KED
|	Cr-1	53	5.3	28.6	-0.0218	0.014	63.7	ug/L	8	KED
[>	Ge-1	72	8980.8	1.0				ug/L	9175	KED
[	As-2	75	3.3	45.8	0.0077	0.030	386.4	ug/L	3	KED
	Y-1	89	15789.1	1.8				ug/L	15729	KED
	Rh-1	103	93231.3	1.0				ug/L	96361	KED
[	Cd-1	111	4.3	35.3	-0.0066	0.008	116.0	ug/L	6	KED
|	Cd-1	114	4.3	38.3	0.0027	0.003	116.9	ug/L	3	KED
[>	In-1	115	10095.8	0.7				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.430
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		91.635
[>	Tb	159		92.898
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		97.881
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		100.360

Sample ID: QC Std 8

Report Date/Time: Thursday, November 04, 2021 06:08:32

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Quantitative Analysis - Summary Report

Sample ID: 10-231-04d 50X

Sample Date/Time: Thursday, October 28, 2021 14:49:56

Report Date/Time: Thursday, November 04, 2021 06:08:34

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-04d 50X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	356257.1	2.4				ug/L	442531	Standard
[	Mn	55	483466.2	3.0	39.2822	0.270	0.7	ug/L	3212	Standard
	Ge	72	183029.0	2.0				ug/L	222138	Standard
	Y	89	429049.0	1.4				ug/L	555834	Standard
[	Rh	103	338667.1	0.8				ug/L	433909	Standard
[>	In	115	316012.8	0.7				ug/L	396664	Standard
[>	Tb	159	367726.4	0.4				ug/L	458426	Standard
[	Ho	165	375832.0	1.2				ug/L	470340	Standard
|	Pb	208	467.7	1.4	-0.0101	0.000	1.6	ug/L	947	Standard
|	Bi	209	253837.3	0.3				ug/L	314405	Standard
[	Th	232	322903.6	1.3				ug/L	429805	Standard
[	Cr-1	52	71.0	7.0	0.0293	0.007	23.0	ug/L	52	KED
|	Cr-1	53	8.7	37.1	0.0144	0.030	209.7	ug/L	8	KED
[>	Ge-1	72	8197.0	1.0				ug/L	9175	KED
[	As-2	75	6.0	28.9	0.0714	0.036	51.0	ug/L	3	KED
	Y-1	89	14135.0	2.1				ug/L	15729	KED
	Rh-1	103	80884.3	0.3				ug/L	96361	KED
[	Cd-1	111	3.3	17.3	-0.0093	0.003	33.7	ug/L	6	KED
|	Cd-1	114	3.1	36.6	0.0011	0.002	210.6	ug/L	3	KED
[>	In-1	115	8916.2	1.4				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		80.504
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		79.668
[>	Tb	159		80.215
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		89.338
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		88.634

Quantitative Analysis - Summary Report

Sample ID: 10-231-06d 5X

Sample Date/Time: Thursday, October 28, 2021 15:00:26

Report Date/Time: Thursday, November 04, 2021 06:08:39

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-06d 5X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	428807.0	1.9				ug/L	442531	Standard
[	Mn	55	944037.3	1.8	63.8669	0.643	1.0	ug/L	3212	Standard
	Ge	72	208187.2	3.0				ug/L	222138	Standard
	Y	89	517820.1	2.7				ug/L	555834	Standard
[	Rh	103	395183.8	2.6				ug/L	433909	Standard
[>	In	115	352898.9	1.7				ug/L	396664	Standard
[>	Tb	159	418288.4	0.2				ug/L	458426	Standard
|	Ho	165	425993.5	0.9				ug/L	470340	Standard
|	Pb	208	528.0	4.0	-0.0102	0.001	6.1	ug/L	947	Standard
|	Bi	209	268138.3	1.2				ug/L	314405	Standard
[	Th	232	387053.9	0.9				ug/L	429805	Standard
[	Cr-1	52	246.7	4.5	0.2179	0.015	6.7	ug/L	52	KED
|	Cr-1	53	28.3	18.1	0.1868	0.049	26.2	ug/L	8	KED
[>	Ge-1	72	8741.0	1.0				ug/L	9175	KED
[	As-2	75	19.7	22.9	0.3396	0.088	25.8	ug/L	3	KED
	Y-1	89	15359.9	1.7				ug/L	15729	KED
	Rh-1	103	88385.9	0.7				ug/L	96361	KED
[	Cd-1	111	1.0	100.0	-0.0228	0.005	21.7	ug/L	6	KED
|	Cd-1	114	4.6	86.1	0.0033	0.008	225.6	ug/L	3	KED
[>	In-1	115	9941.0	0.1				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.899
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		88.967
[>	Tb	159		91.244
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		95.267
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		98.821

Quantitative Analysis - Summary Report

Sample ID: 10-231-07 50X

Sample Date/Time: Thursday, October 28, 2021 15:05:10

Report Date/Time: Thursday, November 04, 2021 06:08:41

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\10-231-07 50X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	387688.5	1.7				ug/L	442531	Standard
[	Mn	55	1042391.3	2.9	78.0337	0.895	1.1	ug/L	3212	Standard
	Ge	72	193657.4	2.0				ug/L	222138	Standard
	Y	89	472386.7	1.3				ug/L	555834	Standard
[	Rh	103	373935.2	1.2				ug/L	433909	Standard
[>	In	115	327118.0	1.6				ug/L	396664	Standard
[>	Tb	159	384698.0	0.5				ug/L	458426	Standard
	Ho	165	393660.2	0.2				ug/L	470340	Standard
	Pb	208	805.7	2.9	0.0004	0.001	187.6	ug/L	947	Standard
	Bi	209	258706.6	0.7				ug/L	314405	Standard
[	Th	232	359466.8	1.6				ug/L	429805	Standard
	Cr-1	52	84.0	17.5	0.0446	0.017	38.1	ug/L	52	KED
	Cr-1	53	12.7	38.9	0.0532	0.048	89.4	ug/L	8	KED
[>	Ge-1	72	8185.7	0.6				ug/L	9175	KED
[	As-2	75	5.7	44.4	0.0644	0.054	83.5	ug/L	3	KED
	Y-1	89	14607.1	1.2				ug/L	15729	KED
	Rh-1	103	83997.6	1.1				ug/L	96361	KED
[	Cd-1	111	2.0	50.0	-0.0171	0.005	31.0	ug/L	6	KED
	Cd-1	114	3.1	69.8	0.0009	0.004	478.4	ug/L	3	KED
[>	In-1	115	9231.5	0.5				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		87.607
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		82.467
[>	Tb	159		83.917
	Ho	165		
	Pb	208		
	Bi	209		
[	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		89.214
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		91.768

Sample ID: 10-231-07 50X

Report Date/Time: Thursday, November 04, 2021 06:08:41

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Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, October 28, 2021 15:09:54

Report Date/Time: Thursday, November 04, 2021 06:08:44

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 6.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	408507.8	1.0				ug/L	442531	Standard
[	Mn	55	564623.6	2.0	40.0149	0.555	1.4	ug/L	3212	Standard
	Ge	72	202435.4	2.3				ug/L	222138	Standard
	Y	89	504657.7	1.9				ug/L	555834	Standard
[	Rh	103	391524.0	3.3				ug/L	433909	Standard
[>	In	115	347584.2	0.5				ug/L	396664	Standard
[>	Tb	159	404234.4	0.1				ug/L	458426	Standard
[	Ho	165	410700.8	1.5				ug/L	470340	Standard
|	Pb	208	1296855.7	0.5	40.8023	0.218	0.5	ug/L	947	Standard
|	Bi	209	273070.5	0.3				ug/L	314405	Standard
[	Th	232	378419.5	0.9				ug/L	429805	Standard
[	Cr-1	52	35143.5	0.8	39.3115	0.478	1.2	ug/L	52	KED
|	Cr-1	53	4303.6	0.8	39.2745	0.649	1.7	ug/L	8	KED
[>	Ge-1	72	8608.6	1.7				ug/L	9175	KED
[	As-2	75	1978.1	2.1	40.5892	0.582	1.4	ug/L	3	KED
	Y-1	89	15114.0	0.6				ug/L	15729	KED
	Rh-1	103	88635.8	1.2				ug/L	96361	KED
[	Cd-1	111	7903.2	2.0	40.0577	0.812	2.0	ug/L	6	KED
|	Cd-1	114	20018.7	1.0	39.3012	0.456	1.2	ug/L	3	KED
[>	In-1	115	9698.2	0.5				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.312
[	Mn	55	100.037	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.627
[>	Tb	159		88.179
	Ho	165		
	Pb	208	102.006	
	Bi	209		
	Th	232		
	Cr-1	52	98.279	
	Cr-1	53	98.186	
[>	Ge-1	72		93.824
[	As-2	75	101.473	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	100.144	
|	Cd-1	114	98.253	
[>	In-1	115		96.408

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, October 28, 2021 15:14:39

Report Date/Time: Thursday, November 04, 2021 06:08:45

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 7.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	399665.7	1.8				ug/L	442531	Standard
[	Mn	55	278564.1	0.7	20.0778	0.271	1.3	ug/L	3212	Standard
	Ge	72	199334.7	1.9				ug/L	222138	Standard
	Y	89	489449.9	1.5				ug/L	555834	Standard
[	Rh	103	383929.1	2.3				ug/L	433909	Standard
[>	In	115	341607.0	0.5				ug/L	396664	Standard
[>	Tb	159	396948.1	0.7				ug/L	458426	Standard
|	Ho	165	402093.8	1.3				ug/L	470340	Standard
|	Pb	208	638011.0	0.5	20.4298	0.233	1.1	ug/L	947	Standard
|	Bi	209	267085.7	0.6				ug/L	314405	Standard
[	Th	232	370619.4	0.5				ug/L	429805	Standard
[	Cr-1	52	17210.0	0.2	19.3716	0.401	2.1	ug/L	52	KED
|	Cr-1	53	2100.2	4.0	19.2714	0.655	3.4	ug/L	8	KED
[>	Ge-1	72	8544.2	2.0				ug/L	9175	KED
[	As-2	75	1003.4	1.7	20.7229	0.684	3.3	ug/L	3	KED
	Y-1	89	14950.8	0.6				ug/L	15729	KED
	Rh-1	103	86306.6	1.0				ug/L	96361	KED
[	Cd-1	111	3888.9	1.3	20.0813	0.326	1.6	ug/L	6	KED
|	Cd-1	114	9811.8	0.6	19.6354	0.228	1.2	ug/L	3	KED
[>	In-1	115	9513.6	1.4				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		90.314
[	Mn	55	100.389	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		86.120
[>	Tb	159		86.589
|	Ho	165		
|	Pb	208	102.149	
|	Bi	209		
[	Th	232		
|	Cr-1	52	96.858	
|	Cr-1	53	96.357	
[>	Ge-1	72		93.122
[	As-2	75	103.615	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	100.406	
|	Cd-1	114	98.177	
[>	In-1	115		94.573

Sample ID: QC Std 7

Report Date/Time: Thursday, November 04, 2021 06:08:45

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, October 28, 2021 15:19:23

Report Date/Time: Thursday, November 04, 2021 06:08:48

Method File: C:\NexIONData_kmckinney\Method\X211028C2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X211028C\QC Std 8.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	430528.1	3.7				ug/L	442531	Standard
[	Mn	55	3217.0	1.2	0.0064	0.006	86.6	ug/L	3212	Standard
	Ge	72	214801.9	3.2				ug/L	222138	Standard
	Y	89	522111.7	2.9				ug/L	555834	Standard
[	Rh	103	406482.8	1.3				ug/L	433909	Standard
[>	In	115	362948.7	1.3				ug/L	396664	Standard
[>	Tb	159	420226.1	1.0				ug/L	458426	Standard
|	Ho	165	429152.8	0.6				ug/L	470340	Standard
|	Pb	208	888.7	3.1	0.0006	0.001	155.9	ug/L	947	Standard
|	Bi	209	284779.1	0.2				ug/L	314405	Standard
[	Th	232	397676.4	0.8				ug/L	429805	Standard
[	Cr-1	52	54.0	8.5	0.0029	0.005	171.1	ug/L	52	KED
|	Cr-1	53	7.0	49.5	-0.0081	0.030	367.0	ug/L	8	KED
[>	Ge-1	72	9109.9	0.1				ug/L	9175	KED
[	As-2	75	3.3	69.3	0.0069	0.045	651.4	ug/L	3	KED
	Y-1	89	16180.2	0.2				ug/L	15729	KED
	Rh-1	103	94108.6	1.0				ug/L	96361	KED
[	Cd-1	111	4.0	50.0	-0.0086	0.010	111.1	ug/L	6	KED
|	Cd-1	114	4.7	29.4	0.0032	0.002	76.1	ug/L	3	KED
[>	In-1	115	10259.4	1.8				ug/L	10060	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		97.288
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		91.500
[>	Tb	159		91.667
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		99.287
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		101.987

Sample ID: QC Std 8

Report Date/Time: Thursday, November 04, 2021 06:08:48

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Alkalinity
SM 2320B Data

Alkalinity
Method SM2320 B

Date Analyzed: 11/2/21
 Analyst: CV
 Titrant Lot #: 252219

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 1102W1	0.02N	50	X	X	0.05	
SB 1102W1		25			2.40 - 0.05 = 2.35	Spike ID =
10-231-01e					10 - 2.40 = 7.6 + 0.10 = 7.70	
- 01eDVP					7.85 - 0.10 = 7.75	
- 02e					10 - 7.85 = 2.15 + 2.70 = 4.85	
- 03e					7.7 - 2.70 = 5.0	
- 04e					10 - 7.7 = 2.3 + 3.05 = 5.35	
- 05e					9.85 - 3.05 = 6.76	
- 06e					3.4 WENT PAST 45 REFL	
- 06e					6.4 - 3.4 = 3.0	
- 07e					10 - 6.4 = 3.6 + 1.0 + 0.70 = 4.3	
- 08e					8.25 - 0.70 = 7.55	

11/2/21 CV

Dissolved Methane
RSK 175 Data

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L211103\1103007.D
 Acq On : 3 Nov 2021 14:05
 Sample : 10-231-01 20X
 Misc :

Vial: 7
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 4 13:00 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1141775	331.669 ppm m
2) Ethane	0.84	84636	10.822 ppm
3) Ethene	1.08	18512	2.326 ppm
4) 1-Butene	4.53	376593	23.297 ppm

Handwritten: 11/4/21

Quantitation Report

Data File : E:\1\DATA\L211103\1103007.D
Acq On : 3 Nov 2021 14:05
Sample : 10-231-01 20X
Misc :

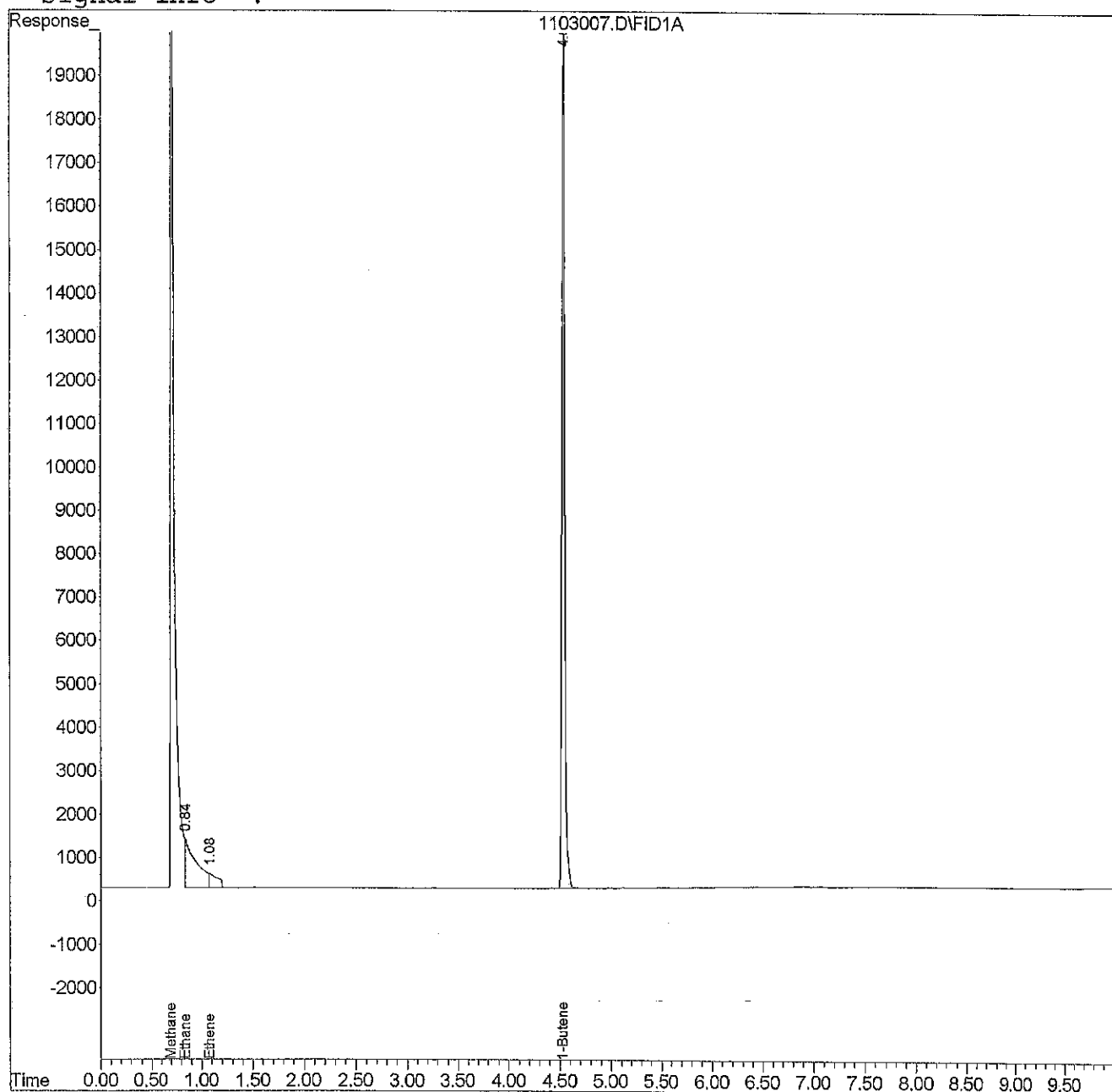
Vial: 7
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 4 13:00 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103009.D
 Acq On : 3 Nov 2021 14:33
 Sample : 10-231-02 20X
 Misc :

Vial: 9
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 14:31 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) Methane	0.70	1104501	320.812	ppm
2) Ethane	0.70	1104501	141.795	ppm
3) Ethene	0.00	0	N.D.	ppm
4) 1-Butene	4.53	411203	25.745	ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103009.D
Acq On : 3 Nov 2021 14:33
Sample : 10-231-02 20X
Misc :

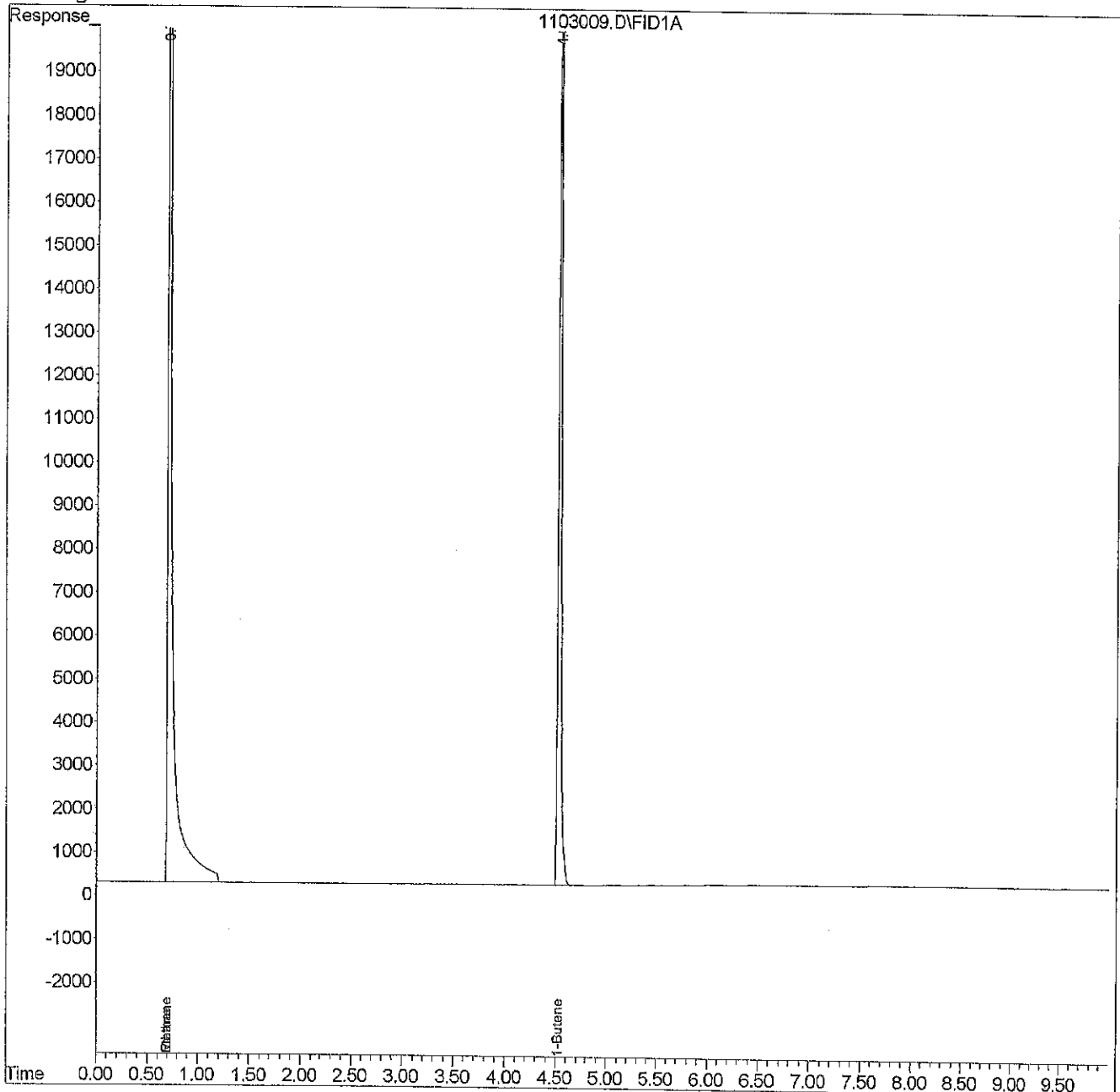
Vial: 9
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 14:31 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103012.D Vial: 12
 Acq On : 3 Nov 2021 15:12 Operator: KH
 Sample : 10-231-03 10X Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS.E

Quant Time: Nov 3 15:09 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1302233	378.404 ppm
2) Ethane	0.70	1302233	167.189 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	4.53	788386	52.423 ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103012.D
Acq On : 3 Nov 2021 15:12
Sample : 10-231-03 10X
Misc :

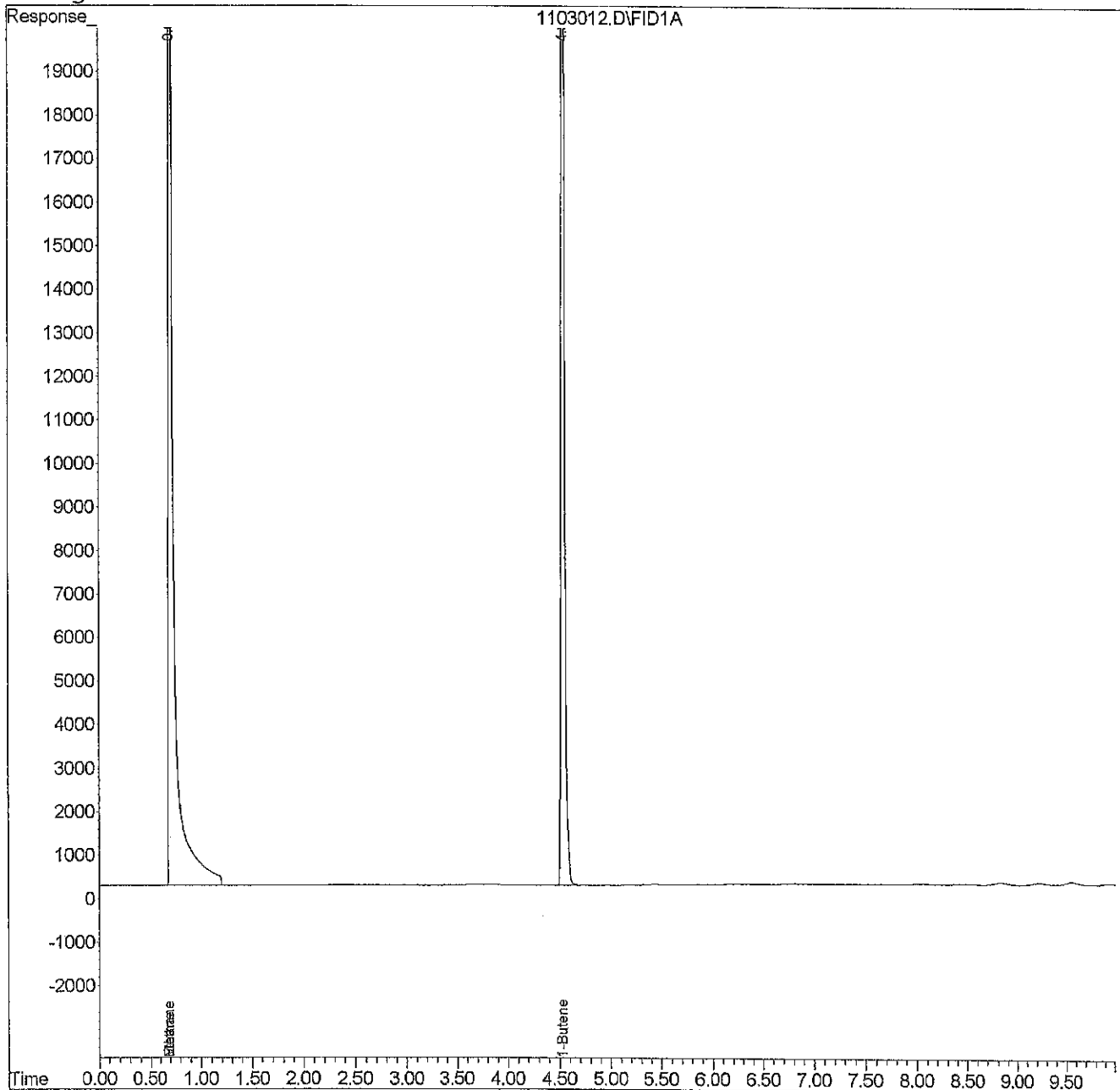
Vial: 12
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 15:09 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L211103\1103011.D
 Acq On : 3 Nov 2021 14:59
 Sample : 10-231-04 10X
 Misc :

Vial: 11
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 4 12:58 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) Methane	0.69	1349288	392.109	ppm m
2) Ethane	0.84	98795	12.640	ppm
3) Ethene	1.08	24114	3.002	ppm
4) 1-Butene	4.52	929528	62.406	ppm

Wm
11-04-21

Quantitation Report

Data File : E:\1\DATA\L211103\1103011.D
Acq On : 3 Nov 2021 14:59
Sample : 10-231-04 10X
Misc :

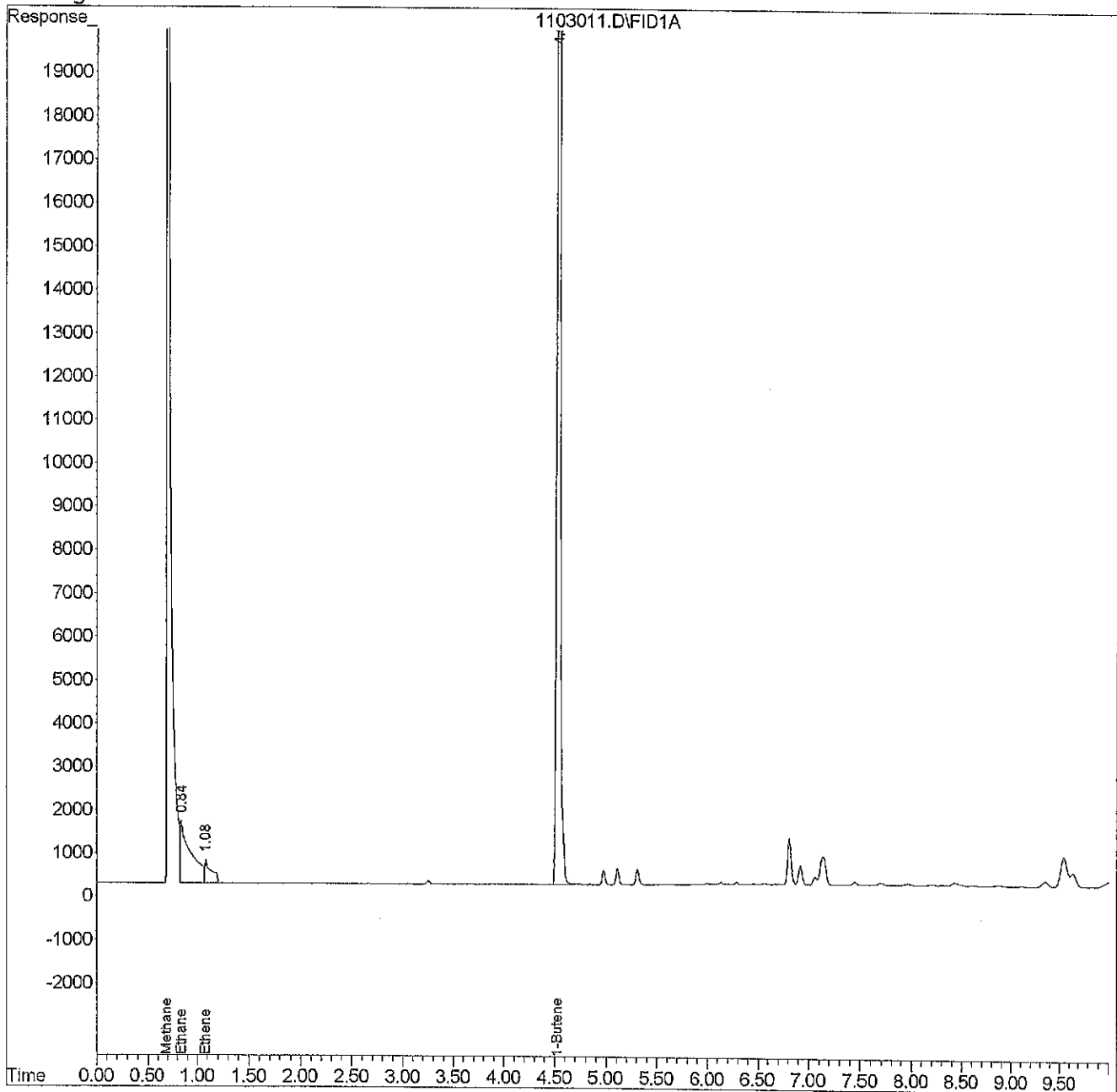
Vial: 11
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 4 12:58 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L211103\1103013.D Vial: 13
 Acq On : 3 Nov 2021 15:27 Operator: KH
 Sample : 10-231-05 10X Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 4 12:58 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) Methane	0.69	1352569	393.065	ppm m
2) Ethane	0.84	104326	13.350	ppm
3) Ethene	1.08	21983	2.745	ppm
4) 1-Butene	4.53	923351	61.969	ppm

*W
11/4/21*

Quantitation Report

Data File : E:\1\DATA\L211103\1103013.D
Acq On : 3 Nov 2021 15:27
Sample : 10-231-05 10X
Misc :

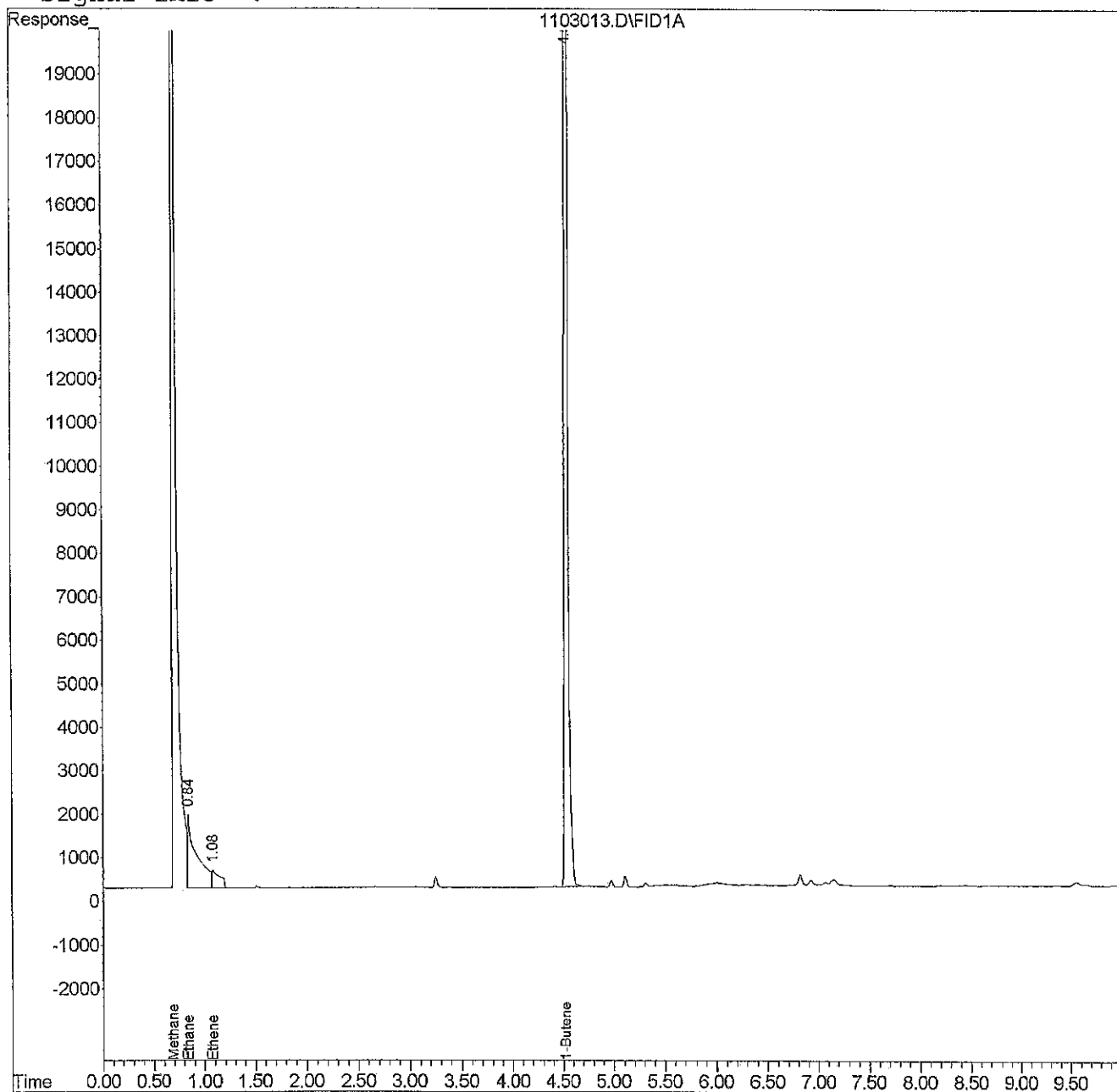
Vial: 13
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 4 12:58 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L211103\1103015.D
 Acq On : 3 Nov 2021 15:51
 Sample : 10-231-06
 Misc :

Vial: 15
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 15:48 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	123249	35.013 ppm
2) Ethane	0.85	30970	3.930 ppm
3) Ethene	1.09	13076	1.670 ppm
4) 1-Butene	4.50	8841581	622.011 ppm

WV

Quantitation Report

Data File : E:\1\DATA\L211103\1103015.D
Acq On : 3 Nov 2021 15:51
Sample : 10-231-06
Misc :

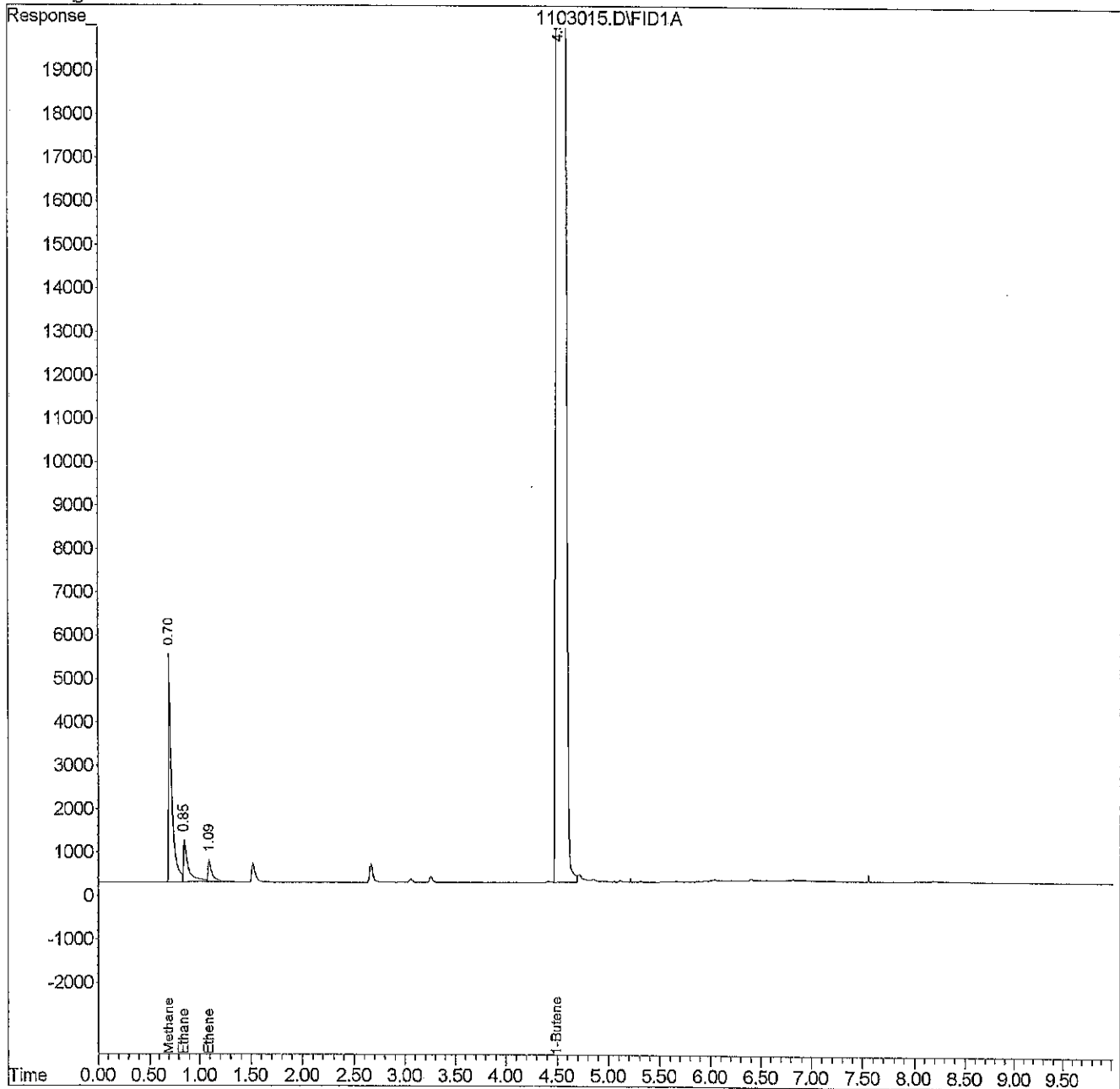
Vial: 15
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 15:48 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103018.D
 Acq On : 3 Nov 2021 16:36
 Sample : 10-231-07 1000X
 Misc :

Vial: 18
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 16:31 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	316711	91.361 ppm
2) Ethane	0.70	316711	40.625 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	4.49	13945200	982.981 ppm

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 11/4/21

Quantitation Report

Data File : E:\1\DATA\L211103\1103018.D
Acq On : 3 Nov 2021 16:36
Sample : 10-231-07 1000X
Misc :

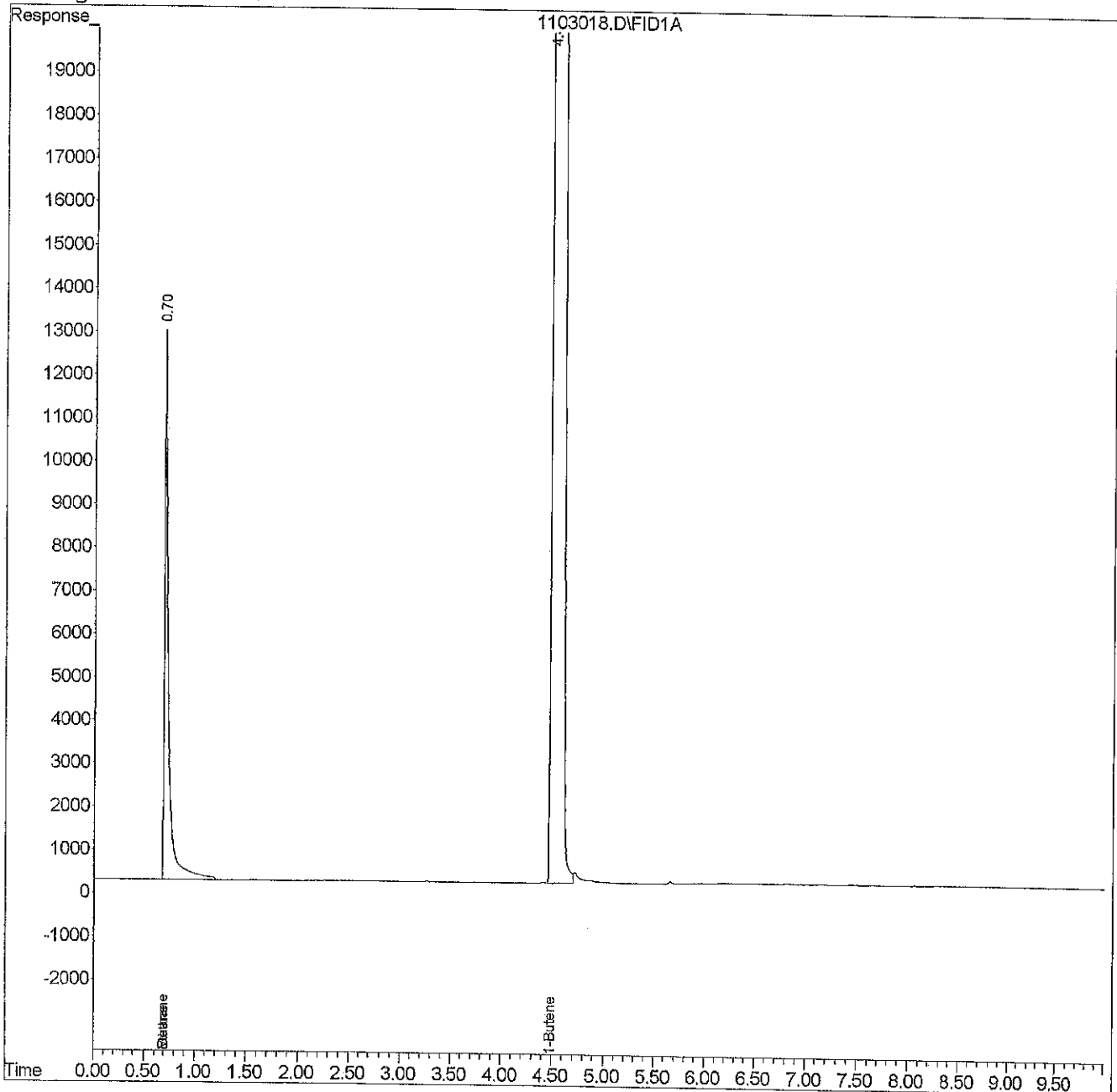
Vial: 18
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 16:31 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103016.D Vial: 16
 Acq On : 3 Nov 2021 16:03 Operator: KH
 Sample : 10-231-08 10X Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 16:01 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	2426375	705.821 ppm
2) Ethane	0.70	2426375	311.554 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	4.53	820596	54.701 ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103016.D
Acq On : 3 Nov 2021 16:03
Sample : 10-231-08 10X
Misc :

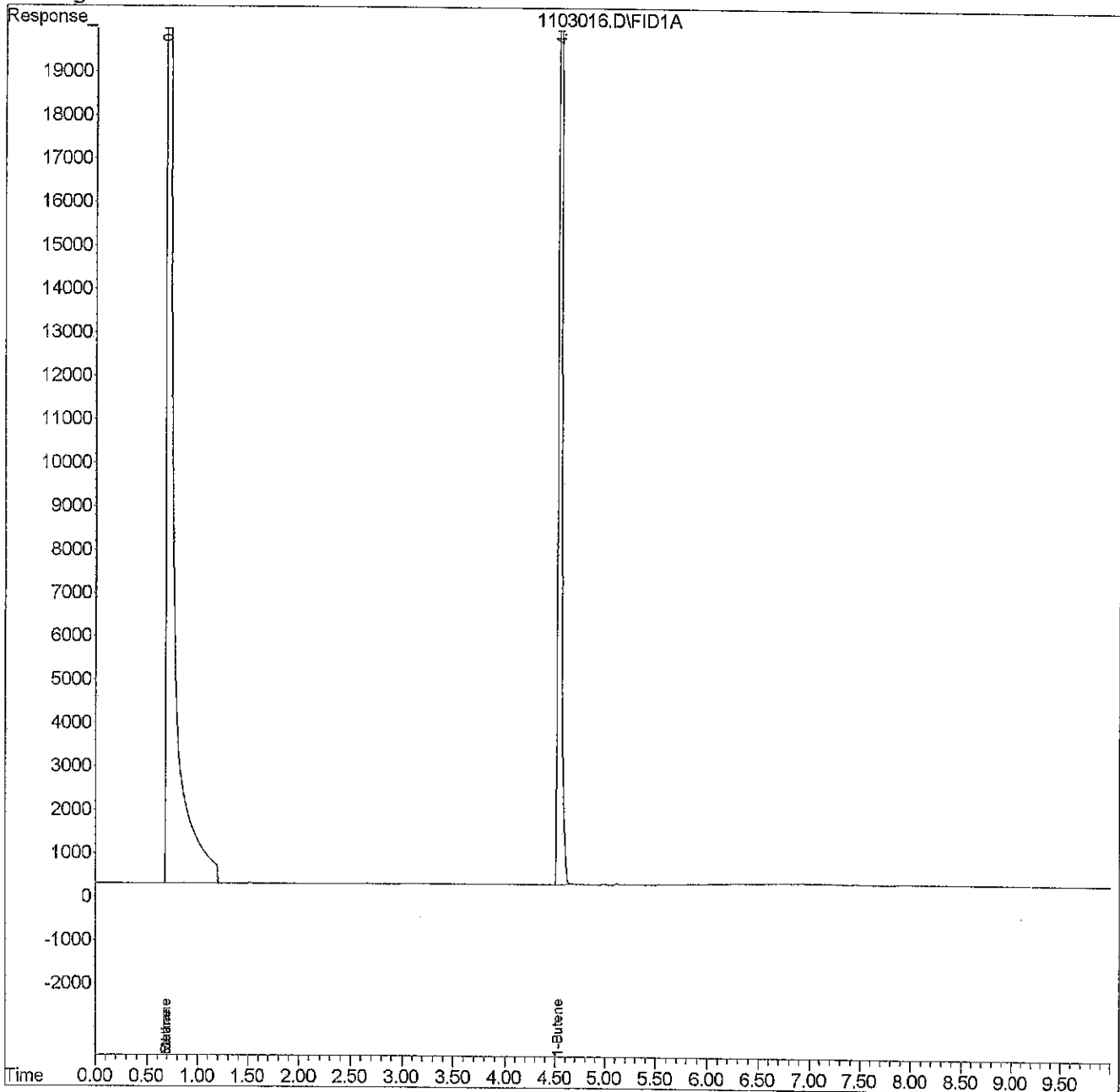
Vial: 16
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 16:01 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103001.D Vial: 1
 Acq On : 3 Nov 2021 10:16 Operator: KH
 Sample : CCV1103DG-L1 Inst : LUCY
 Misc : DG1-002-04 Multiplr: 1.00
 IntFile : EVENTS.E Sample Amount: 0.00

Quant Time: Nov 3 10:17 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1877070	545.831 ppm
2) Ethane	0.84	3954039	507.740 ppm
3) Ethene	1.08	4140800	499.853 ppm
4) 1-Butene	4.50	7144712	501.994 ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103001.D
Acq On : 3 Nov 2021 10:16
Sample : CCV1103DG-L1
Misc : DG1-002-04

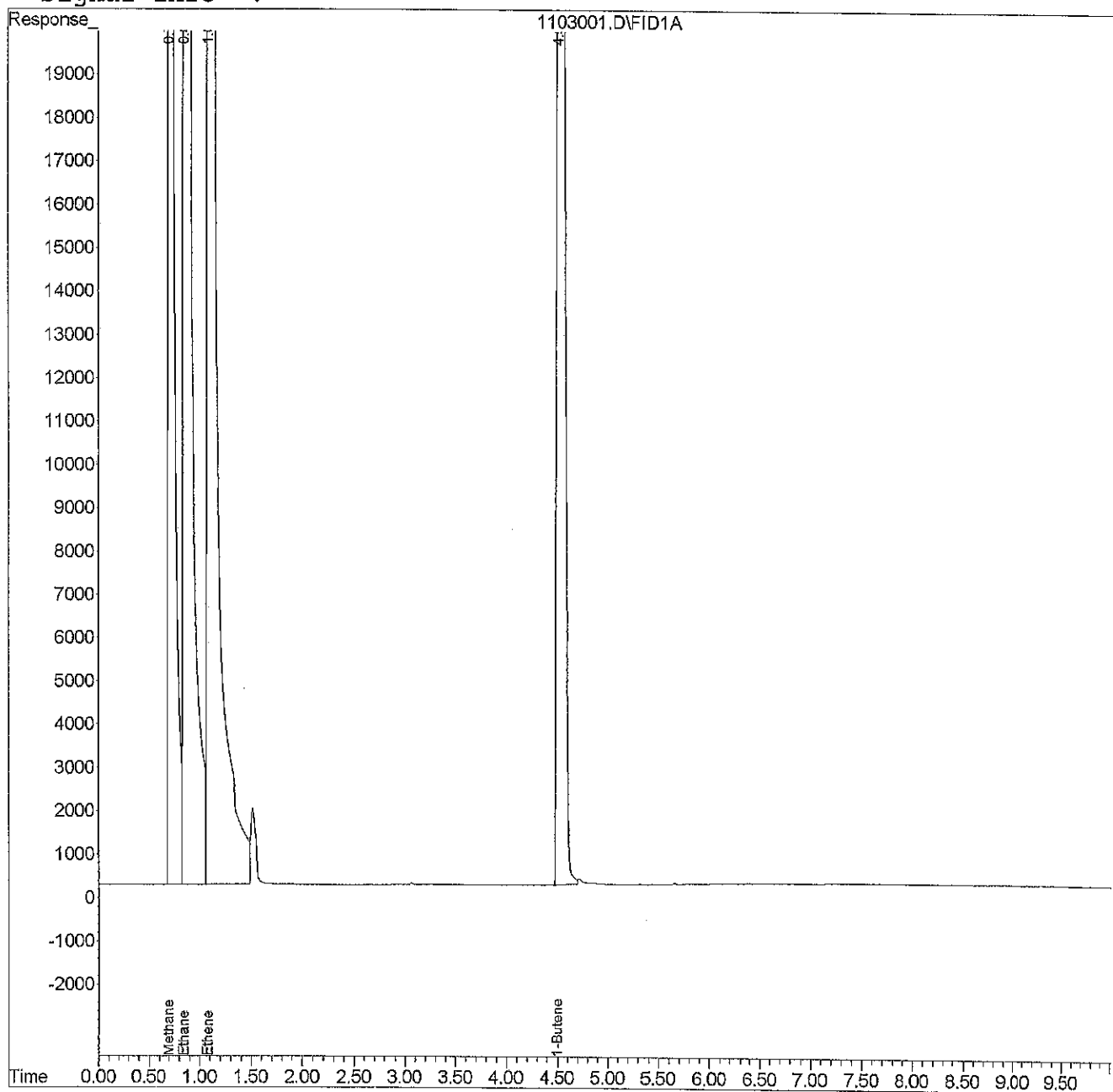
Vial: 1
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 10:17 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103019.D
 Acq On : 3 Nov 2021 16:59
 Sample : CCV1103DG-L2
 Misc : DG1-002-04

Vial: 19
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 16:56 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.69	1865286	542.399 ppm
2) Ethane	0.84	3877503	497.911 ppm
3) Ethene	1.09	4013306	484.466 ppm
4) 1-Butene	4.51	6891021	484.051 ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103019.D
Acq On : 3 Nov 2021 16:59
Sample : CCV1103DG-L2
Misc : DG1-002-04

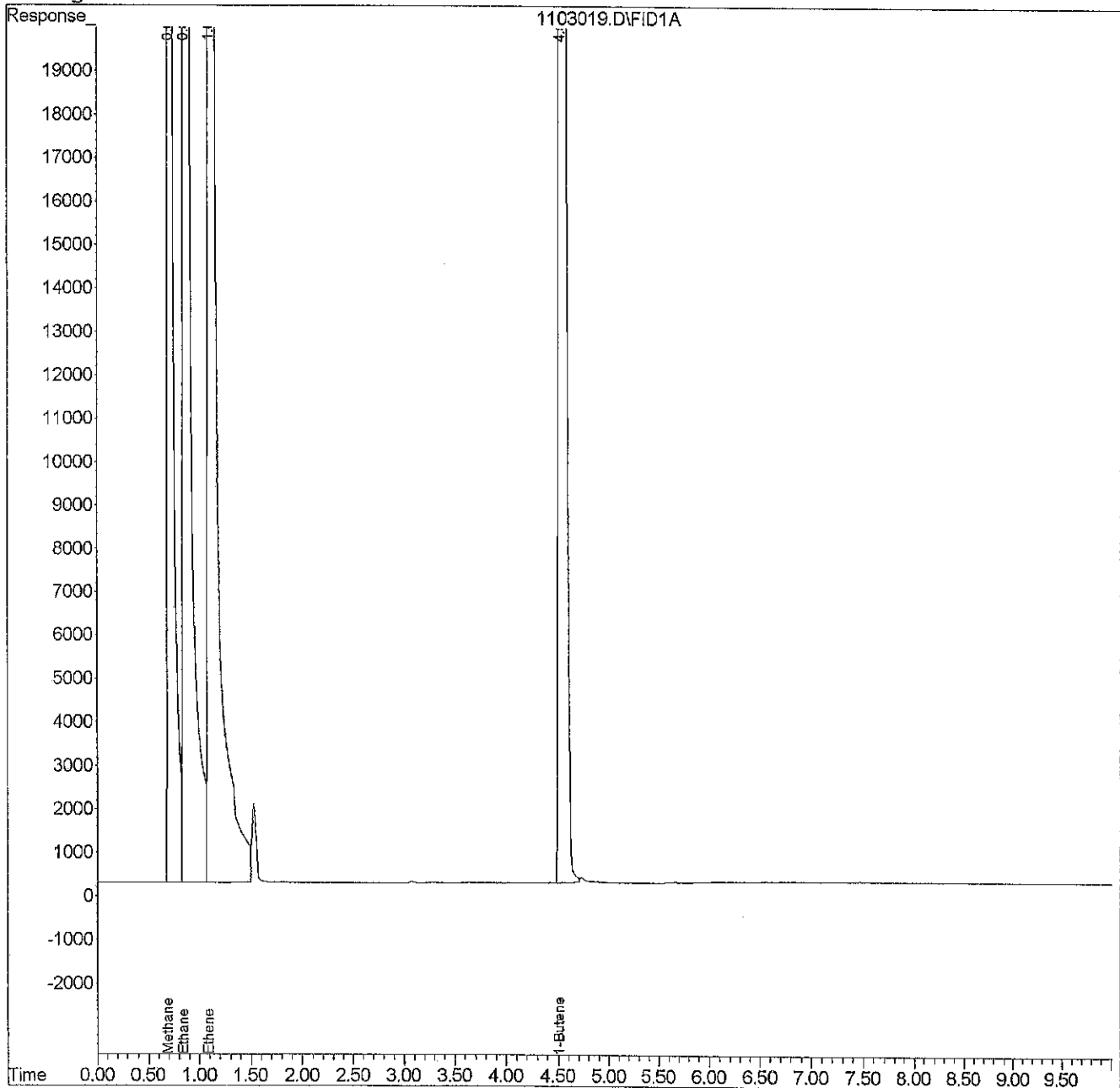
Vial: 19
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 16:56 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L211103\1103003.D
 Acq On : 3 Nov 2021 11:01
 Sample : MB1103W1 RR
 Misc :

Vial: 3
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 11:02 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) Methane	0.74	14812	3.429	ppm m
2) Ethane	0.85	164	N.D.	ppm
3) Ethene	0.85	164	0.112	ppm
4) 1-Butene	4.50	8670142	609.885	ppm

*Ww
114-21*

Quantitation Report

Data File : E:\1\DATA\L211103\1103003.D
Acq On : 3 Nov 2021 11:01
Sample : MB1103W1 RR
Misc :

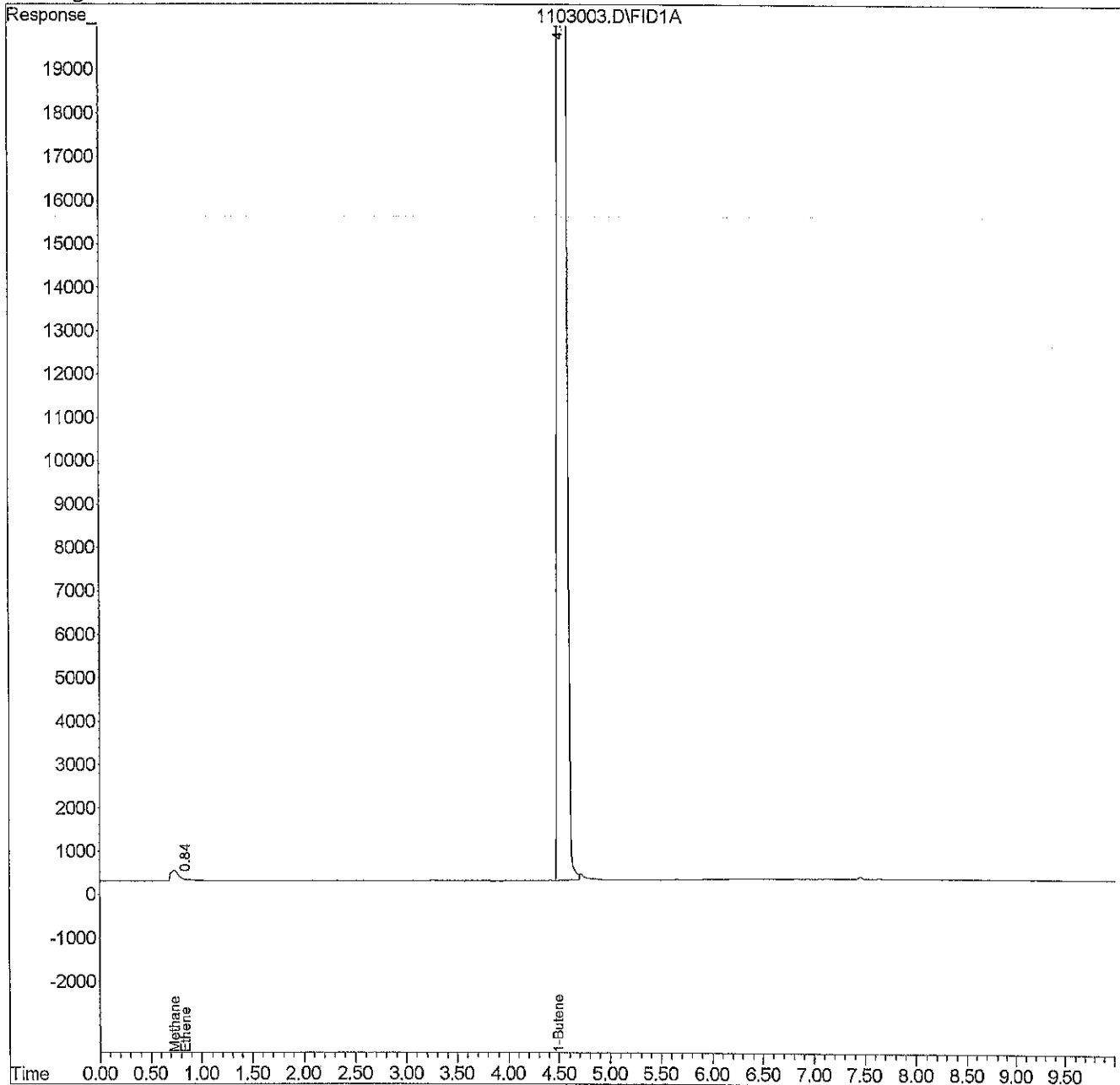
Vial: 3
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 11:02 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L211103\1103004.D
 Acq On : 3 Nov 2021 11:32
 Sample : SB1103W1
 Misc :

Vial: 4
 Operator: KH
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 11:32 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1625962	472.693 ppm
2) Ethane	0.85	3276220	420.693 ppm
3) Ethene	1.09	2631336	317.673 ppm
4) 1-Butene	4.51	4664040	326.541 ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103004.D
Acq On : 3 Nov 2021 11:32
Sample : SB1103W1
Misc :

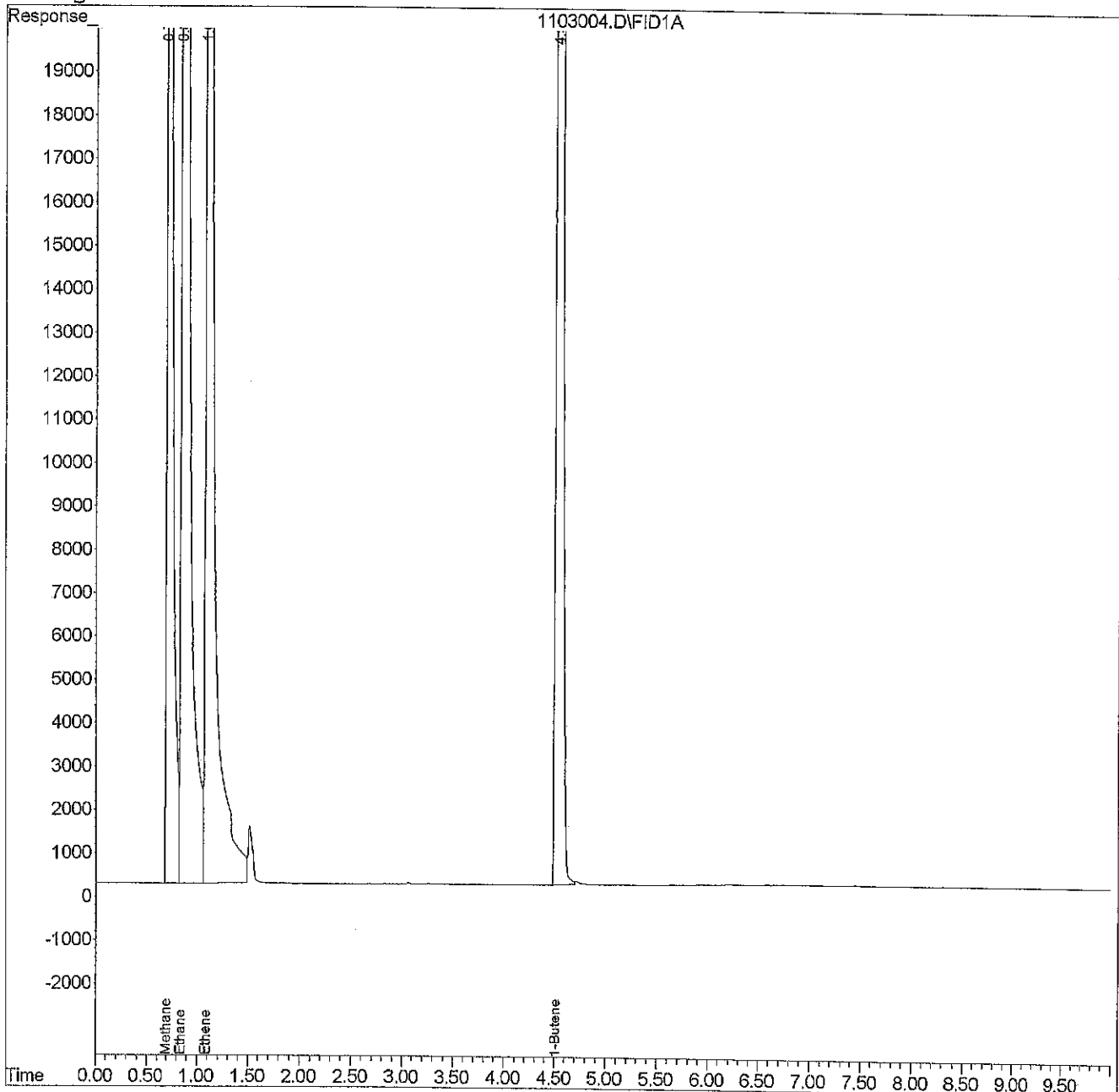
Vial: 4
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 11:32 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L211103\1103005.D Vial: 5
 Acq On : 3 Nov 2021 11:54 Operator: KH
 Sample : SB1103W1 DUP Inst : LUCY
 Misc : Multiplr: 1.00
Sample Amount: 0.00
 IntFile : EVENTS.E

Quant Time: Nov 3 11:50 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
 Title : Gases
 Last Update : Wed Sep 29 16:24:23 2021
 Response via : Initial Calibration
 DataAcq Meth : L191016.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1635397	475.441 ppm
2) Ethane	0.84	3283537	421.633 ppm
3) Ethene	1.08	2585616	312.155 ppm
4) 1-Butene	4.51	4591392	321.403 ppm

Quantitation Report

Data File : E:\1\DATA\L211103\1103005.D
Acq On : 3 Nov 2021 11:54
Sample : SB1103W1 DUP
Misc :

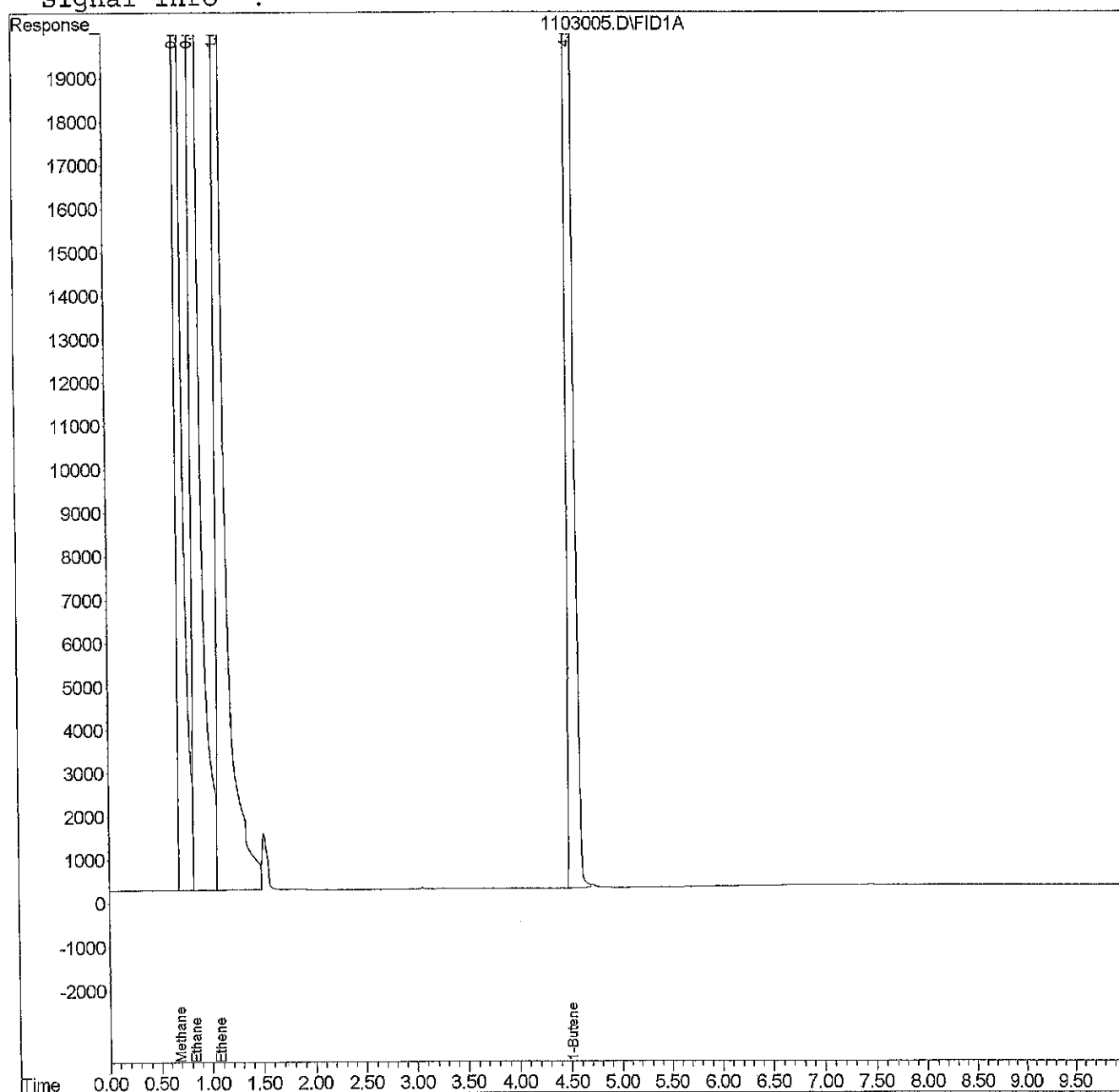
Vial: 5
Operator: KH
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS.E

Quant Time: Nov 3 11:50 2021 Quant Results File: L191016.RES

Quant Method : E:\1\METHODS\L191016.M (Chemstation Integrator)
Title : Gases
Last Update : Wed Sep 29 16:24:23 2021
Response via : Multiple Level Calibration
DataAcq Meth : L191016.M

Volume Inj. :
Signal Phase :
Signal Info :





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 15, 2022

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-024-11
Laboratory Reference No. 2202-007

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on February 1, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", enclosed within a large, loopy circular flourish.

Blair Goodrow
Project Manager

Enclosures



Date of Report: February 15, 2022
Samples Submitted: February 1, 2022
Laboratory Reference: 2202-007
Project: 5147-024-11

Case Narrative

Samples were collected on February 1, 2022 and received by the laboratory on February 1, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: February 15, 2022
Samples Submitted: February 1, 2022
Laboratory Reference: 2202-007
Project: 5147-024-11

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-8_020122	02-007-01	Water	2-1-22	2-1-22	



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Gasoline	120	100	NWTPH-Gx	2-2-22	2-2-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	66-117				



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Diesel Range Organics	0.65	0.20	NWTPH-Dx	2-7-22	2-10-22	
Lube Oil Range Organics	0.73	0.20	NWTPH-Dx	2-7-22	2-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				

Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	2-7-22	2-10-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	2-7-22	2-10-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-1-22	2-1-22	
n-Hexane	ND	1.0	EPA 8260D	2-1-22	2-1-22	
Benzene	6.3	0.20	EPA 8260D	2-1-22	2-1-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	1.0	EPA 8260D	2-1-22	2-1-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.20	EPA 8260D	2-1-22	2-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Arsenic	6.6	3.3	EPA 200.8	2-4-22	2-4-22	
Cadmium	ND	4.4	EPA 200.8	2-4-22	2-4-22	
Chromium	ND	11	EPA 200.8	2-4-22	2-4-22	
Lead	ND	1.1	EPA 200.8	2-4-22	2-4-22	
Mercury	ND	0.025	EPA 7470A	2-4-22	2-4-22	



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

DISSOLVED METALS
EPA 200.8/6010D/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Arsenic	3.5	3.0	EPA 200.8	2-1-22	2-4-22	
Cadmium	ND	4.0	EPA 200.8	2-1-22	2-4-22	
Chromium	ND	10	EPA 200.8	2-1-22	2-4-22	
Lead	ND	1.0	EPA 200.8	2-1-22	2-4-22	
Manganese	2500	11	EPA 6010D	2-1-22	2-4-22	
Mercury	ND	0.025	EPA 7470A	2-1-22	2-4-22	



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
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**DISSOLVED METHANE
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Methane	1000	5.5	RSK 175	2-8-22	2-8-22	



Date of Report: February 15, 2022
Samples Submitted: February 1, 2022
Laboratory Reference: 2202-007
Project: 5147-024-11

**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_020122					
Laboratory ID:	02-007-01					
Total Alkalinity	260	2.0	SM 2320B	2-14-22	2-14-22	



Date of Report: February 15, 2022
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 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202W1					
Gasoline	ND	100	NWTPH-Gx	2-2-22	2-2-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-186-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				93	92	66-117		



Date of Report: February 15, 2022
Samples Submitted: February 1, 2022
Laboratory Reference: 2202-007
Project: 5147-024-11

**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0202G-1	2.50	2.44	2	+/- 20%
CCVH0202G-2	2.50	2.38	5	+/- 20%



Date of Report: February 15, 2022
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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0207W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	2-7-22	2-7-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	2-7-22	2-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				
Laboratory ID:	MB0207W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	2-7-22	2-10-22	X1
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	2-7-22	2-10-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0207W1							
	ORIG	DUP						
Diesel Fuel #2	0.389	0.368	NA	NA	NA	NA	6	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				116	103	50-150		
Laboratory ID:	SB0207W1							
	ORIG	DUP						
Diesel Fuel #2	0.532	0.417	NA	NA	NA	NA	24	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				108	90	50-150		



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0207R-V2	100	105	-4.7	+/-15%
CCV0207R-V3	100	103	-3.4	+/-15%
CCV0209R-T4	100	101	-0.9	+/-15%
CCV0209R-T5	100	112	-12.3	+/-15%
CCV0210R-V1	100	94.0	6.0	+/-15%
CCV0210R-V2	100	93.8	6.2	+/-15%
CCV0210F-T1	100	103	-3.0	+/-15%
CCV0210F-T2	100	106	-6.0	+/-15%
CCV0210R-T1	100	103	-3.4	+/-15%
CCV0210R-T3	100	110	-9.7	+/-15%



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
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 Project: 5147-024-11

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0201W1					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-1-22	2-1-22	
n-Hexane	ND	1.0	EPA 8260D	2-1-22	2-1-22	
Benzene	ND	0.20	EPA 8260D	2-1-22	2-1-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	1.0	EPA 8260D	2-1-22	2-1-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.20	EPA 8260D	2-1-22	2-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0201W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	12.1	11.7	10.0	10.0	121	117	78-125	3	19	
Benzene	11.8	11.7	10.0	10.0	118	117	80-119	1	16	
Trichloroethene	11.6	11.6	10.0	10.0	116	116	80-121	0	18	
Toluene	11.3	11.3	10.0	10.0	113	113	80-117	0	18	
Chlorobenzene	11.1	11.0	10.0	10.0	111	110	80-117	1	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>102</i>	<i>100</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>100</i>	<i>99</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>93</i>	<i>78-125</i>			



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0204WM1					
Arsenic	ND	3.3	EPA 200.8	2-4-22	2-4-22	
Cadmium	ND	4.4	EPA 200.8	2-4-22	2-4-22	
Chromium	ND	11	EPA 200.8	2-4-22	2-4-22	
Lead	ND	1.1	EPA 200.8	2-4-22	2-4-22	

Laboratory ID:	MB0204W1					
Mercury	ND	0.025	EPA 7470A	2-4-22	2-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-007-01							
	ORIG	DUP						
Arsenic	6.58	6.64	NA	NA	NA	NA	1	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	02-042-04							
Mercury	1.11	0.990	NA	NA	NA	NA	11	20

MATRIX SPIKES

Laboratory ID:	02-007-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	124	124	111	111	6.58	106	105	75-125	0	20
Cadmium	116	115	111	111	ND	104	104	75-125	0	20
Chromium	121	120	111	111	ND	109	108	75-125	1	20
Lead	111	112	111	111	ND	100	101	75-125	1	20

Laboratory ID:	02-042-04									
Mercury	13.0	12.5	12.5	12.5	1.11	95	91	75-125	4	20



Date of Report: February 15, 2022
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 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV020422X	50.0	50.8	-1.6	+/- 10%
Cadmium	ICV020422X	50.0	49.4	1.2	+/- 10%
Chromium	ICV020422X	50.0	51.1	-2.2	+/- 10%
Lead	ICV020422X	50.0	50.2	-0.40	+/- 10%
Mercury	ICV020422I	2.50	2.70	-8.0	+/- 10%
Arsenic	CCV1020422X	40.0	39.5	1.3	+/- 10%
Cadmium	CCV1020422X	40.0	40.0	0	+/- 10%
Chromium	CCV1020422X	40.0	40.5	-1.3	+/- 10%
Lead	CCV1020422X	40.0	40.8	-2.0	+/- 10%
Mercury	CCV1020422I	2.50	2.76	-10	+/- 20%
Arsenic	CCV1020422X	20.0	19.7	1.5	+/- 10%
Cadmium	CCV1020422X	20.0	19.8	1.0	+/- 10%
Chromium	CCV1020422X	20.0	19.9	0.50	+/- 10%
Lead	CCV1020422X	20.0	19.9	0.50	+/- 10%
Arsenic	CCV2020422X	40.0	40.5	-1.3	+/- 10%
Cadmium	CCV2020422X	40.0	40.7	-1.8	+/- 10%
Chromium	CCV2020422X	40.0	39.5	1.3	+/- 10%
Lead	CCV2020422X	40.0	40.7	-1.8	+/- 10%
Mercury	CCV2020422I	2.50	2.58	-3.2	+/- 20%
Arsenic	CCV2020422X	20.0	19.8	1.0	+/- 10%
Cadmium	CCV2020422X	20.0	19.9	0.50	+/- 10%
Chromium	CCV2020422X	20.0	19.5	2.5	+/- 10%
Lead	CCV2020422X	20.0	20.0	0	+/- 10%
Mercury	CCV3020422I	2.50	2.63	-5.2	+/- 20%
Mercury	CCV4020422I	2.50	2.66	-6.4	+/- 20%



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0201F1					
Manganese	ND	11	EPA 6010D	2-1-22	2-4-22	
METHOD BLANK						
Laboratory ID:	MB0201F1					
Arsenic	ND	3.0	EPA 200.8	2-1-22	2-4-22	
Cadmium	ND	4.0	EPA 200.8	2-1-22	2-4-22	
Chromium	ND	10	EPA 200.8	2-1-22	2-4-22	
Lead	ND	1.0	EPA 200.8	2-1-22	2-4-22	
METHOD BLANK						
Laboratory ID:	MB0201F1					
Mercury	ND	0.025	EPA 7470A	2-1-22	2-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	02-050-01									
	ORIG	DUP								
Manganese	263	269	NA	NA	NA	NA	2	20		
DUPLICATE										
Laboratory ID:	02-007-01									
Arsenic	3.46	3.60	NA	NA	NA	NA	4	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
DUPLICATE										
Laboratory ID:	01-246-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	02-050-01									
	MS	MSD	MS	MSD	MS	MSD				
Manganese	788	788	556	556	263	94	94	75-125	0	20
MATRIX SPIKES										
Laboratory ID:	02-007-01									
Arsenic	86.0	86.6	80.0	80.0	3.46	103	104	75-125	1	20
Cadmium	80.0	79.8	80.0	80.0	ND	100	100	75-125	0	20
Chromium	81.4	78.6	80.0	80.0	ND	102	98	75-125	4	20
Lead	77.4	76.6	80.0	80.0	ND	97	96	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	01-246-01									
Mercury	6.25	5.90	6.25	6.25	ND	100	94	75-125	6	20



Date of Report: February 15, 2022
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**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV020422X	50.0	47.6	4.8	+/- 10%
Cadmium	ICV020422X	50.0	48.7	2.6	+/- 10%
Chromium	ICV020422X	50.0	50.0	0	+/- 10%
Lead	ICV020422X	50.0	50.2	-0.40	+/- 10%
Manganese	ICV020422B	1000	1030	-3.0	+/- 10%
Mercury	ICV020422I	2.50	2.70	-8.0	+/- 10%
Manganese	LLV020422B	10.0	10.5	-5.0	+/- 20%
Arsenic	CCV1020422X	40.0	39.5	1.3	+/- 10%
Cadmium	CCV1020422X	40.0	39.6	1.0	+/- 10%
Chromium	CCV1020422X	40.0	39.9	0.25	+/- 10%
Lead	CCV1020422X	40.0	40.8	-2.0	+/- 10%
Manganese	CCV1020422B	1000	1010	-1.0	+/- 10%
Mercury	CCV1020422I	2.50	2.76	-10	+/- 20%
Arsenic	CCV1020422X	20.0	19.6	2.0	+/- 10%
Cadmium	CCV1020422X	20.0	19.8	1.0	+/- 10%
Chromium	CCV1020422X	20.0	19.3	3.5	+/- 10%
Lead	CCV1020422X	20.0	20.0	0	+/- 10%
Arsenic	CCV2020422X	40.0	40.2	-0.50	+/- 10%
Cadmium	CCV2020422X	40.0	40.0	0	+/- 10%
Chromium	CCV2020422X	40.0	37.7	5.7	+/- 10%
Lead	CCV2020422X	40.0	40.3	-0.75	+/- 10%
Manganese	CCV2020422B	1000	993	0.70	+/- 10%
Mercury	CCV2020422I	2.50	2.58	-3.2	+/- 20%
Arsenic	CCV2020422X	20.0	19.7	1.5	+/- 10%
Cadmium	CCV2020422X	20.0	19.8	1.0	+/- 10%
Chromium	CCV2020422X	20.0	18.4	8.0	+/- 10%
Lead	CCV2020422X	20.0	19.9	0.50	+/- 10%
Manganese	CCV3020422B	1000	1020	-2.0	+/- 10%
Manganese	CCV4020422B	1000	1010	-1.0	+/- 10%



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0208W1					
Methane	ND	0.55	RSK 175	2-8-22	2-8-22	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANK										
Laboratory ID:	SB0208W1									
Methane	37.0	38.4	44.2	44.2	84	87	75-125	4	25	
Ethane	68.2	70.9	83.2	83.2	82	85	75-125	4	25	
Ethene	62.3	65.4	77.7	77.7	80	84	75-125	5	25	



Date of Report: February 15, 2022
Samples Submitted: February 1, 2022
Laboratory Reference: 2202-007
Project: 5147-024-11

**DISSOLVED METHANE
RSK 175
CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Methane	CCV0208DG-L1	500	493	1.3	+/- 15%
Methane	CCV0208DG-L2	500	491	1.9	+/- 15%



Date of Report: February 15, 2022
 Samples Submitted: February 1, 2022
 Laboratory Reference: 2202-007
 Project: 5147-024-11

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0214W1					
Total Alkalinity	ND	2.0	SM 2320B	2-14-22	2-14-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-007-01							
	ORIG	DUP						
Total Alkalinity	260	256	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0214W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

**RE: Quiet Cove- Post Interim Action
Work Order Number: 2202019**

February 07, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 2/1/2022 for the analyses presented in the following report.

***Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action
Work Order: 2202019

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2202019-001	MW-8_020122	02/01/2022 9:45 AM	02/01/2022 3:25 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action
Lab ID: 2202019-001
Client Sample ID: MW-8_020122

Collection Date: 2/1/2022 9:45:00 AM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 35238		Analyst: SLL
Nitrate (as N)	1.14	1.00	D	mg/L	10	2/3/2022 3:15:00 AM
Sulfate	9.08	6.00	D	mg/L	10	2/3/2022 3:15:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R73002		Analyst: SLL
Ferrous Iron	24.3	5.00	D	mg/L	50	2/1/2022 4:00:00 PM



Work Order: 2202019
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R73002	SampType: MBLK	Units: mg/L	Prep Date: 2/1/2022	RunNo: 73002							
Client ID: MBLKW	Batch ID: R73002	Analysis Date: 2/1/2022	SeqNo: 1490631								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R73002	SampType: LCS	Units: mg/L	Prep Date: 2/1/2022	RunNo: 73002							
Client ID: LCSW	Batch ID: R73002	Analysis Date: 2/1/2022	SeqNo: 1490632								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.441 0.100 0.4000 0 110 85 115

Sample ID: 2202019-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/1/2022	RunNo: 73002							
Client ID: MW-8_020122	Batch ID: R73002	Analysis Date: 2/1/2022	SeqNo: 1490634								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 24.7 5.00 24.32 1.34 20 D

Sample ID: 2202019-001BMS	SampType: MS	Units: mg/L	Prep Date: 2/1/2022	RunNo: 73002							
Client ID: MW-8_020122	Batch ID: R73002	Analysis Date: 2/1/2022	SeqNo: 1490635								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 48.1 5.00 20.00 24.32 119 70 130 D

Sample ID: 2202019-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 2/1/2022	RunNo: 73002							
Client ID: MW-8_020122	Batch ID: R73002	Analysis Date: 2/1/2022	SeqNo: 1490636								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 47.3 5.00 20.00 24.32 115 70 130 48.10 1.72 20 D

Work Order: 2202019
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-35238	SampType: MBLK	Units: mg/L			Prep Date: 2/2/2022	RunNo: 73032					
Client ID: MBLKW	Batch ID: 35238				Analysis Date: 2/2/2022	SeqNo: 1491085					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: LCS-35238	SampType: LCS	Units: mg/L			Prep Date: 2/2/2022	RunNo: 73032					
Client ID: LCSW	Batch ID: 35238				Analysis Date: 2/2/2022	SeqNo: 1491086					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.705	0.100	0.7500	0	94.0	90	110				
Sulfate	3.53	0.600	3.750	0	94.2	90	110				

Sample ID: 2202015-004BDUP	SampType: DUP	Units: mg/L			Prep Date: 2/2/2022	RunNo: 73032					
Client ID: BATCH	Batch ID: 35238				Analysis Date: 2/3/2022	SeqNo: 1491089					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.500						0		20	D
Sulfate	ND	3.00						0		20	D

Sample ID: 2202015-004BMS	SampType: MS	Units: mg/L			Prep Date: 2/2/2022	RunNo: 73032					
Client ID: BATCH	Batch ID: 35238				Analysis Date: 2/3/2022	SeqNo: 1491090					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	4.08	0.500	3.750	0	109	80	120				D
Sulfate	25.6	3.00	18.75	0	136	80	120				DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Work Order: 2202019
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2202015-004BMSD		SampType: MSD		Units: mg/L		Prep Date: 2/2/2022		RunNo: 73032			
Client ID: BATCH		Batch ID: 35238				Analysis Date: 2/3/2022		SeqNo: 1491091			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.26	0.500	3.750	0	86.9	80	120	4.085	22.5	20	DR
Sulfate	16.0	3.00	18.75	0	85.1	80	120	25.58	46.4	20	DR

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2202028-001ADUP		SampType: DUP		Units: mg/L		Prep Date: 2/2/2022		RunNo: 73032			
Client ID: BATCH		Batch ID: 35238				Analysis Date: 2/3/2022		SeqNo: 1491107			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0		20	
Sulfate	1.57	0.600						1.569	0.0637	20	

Sample ID: 2202028-001AMS		SampType: MS		Units: mg/L		Prep Date: 2/2/2022		RunNo: 73032			
Client ID: BATCH		Batch ID: 35238				Analysis Date: 2/3/2022		SeqNo: 1491108			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.704	0.100	0.7500	0.09800	80.8	80	120				
Sulfate	3.49	0.600	3.750	1.569	51.3	80	120				S

NOTES:

S - Outlying spike recoveries were associated with this sample.

Client Name: **ONSITE**

 Work Order Number: **2202019**

 Logged by: **Gabrielle Coeuille**

 Date Received: **2/1/2022 3:25:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	1.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Telephone: 425.883.3881

Company: GeoEngineers, Inc.

Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action

Project Manager: Brian Tracy

Field Leads: ~~Neil~~ ^{MAE} Solomon

CHAIN OF CUSTODY

2202019

2202019

Turnaround Requested:
 1 Day
 2 Day
 3 Day
 Standard

Requested Analyses

Nitrate and Sulfate EPA 300.0***		
Ferrous Iron SM 3500B ***		

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.			
	MW-8-020188	2.1.22	945	Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	

Relinquished by MAE Date 2-1-22 Received by AWP/STC/ep Date 2-1-22
 Firm Time 15:25 Firm FAI

Comments:
 * BTEX, EDB, EDC, MTBE, n-hexane
 ** field filtered
 *** sent directly to Fremont Analytical

Relinquished by _____ Date _____ Received by _____
 Firm Time _____ Firm Time _____



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Laboratory Number: **02-007**

34

Company: GEOTECHNICALS INC.
 Project Number: 05147-024-11
 Project Name: ASBESTOS ABNORMALS
 Project Manager: BRAND TRACY
 Sampled by: NATE SOROMAL

Turnaround Request (in working days)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (other) _____

Lab ID: MW-8-020122
 Sample Identification: _____

Number of Containers: 13

Matrix	Analysis	Result
Water	NWTPH-HCID	
Water	NWTPH-Gx/BTEX	
Water	NWTPH-Gx	X
Water	NWTPH-Dx (Acid / SG Clean-up)	X
Water	Volatiles 8260D	X
Water	Halogenated Volatiles 8260D	
Water	EDB EPA 8011 (Waters Only)	
Water	Semivolatiles 8270E/SIM (with low-level PAHs)	
Water	PAHs 8270E/SIM (low-level)	
Water	PCBs 8082A	
Water	Organochlorine Pesticides 8081B	
Water	Organophosphorus Pesticides 8270E/SIM	
Water	Chlorinated Acid Herbicides 8151A	
Water	Total RCRA Metals	
Water	Total MTCA Metals	X
Water	TCLP Metals	(X)
Water	Alkalinity	
Water	HEM (oil and grease) 1664A	
Water	DISSOLVED MTCA METALS	X
Water	NITRATE & SULFATE 300.0	X
Water	DISSOLVED METHANE	X
Water	DISSOLVED MANGANESE	X
Water	DISSOLVED FERROUS IRON	X

Signature	Company	Date	Time	Comments/Special Instructions
<u>Nicholas Bellini</u>	<u>OSSE</u>	<u>2/1/22</u>	<u>1352</u>	<u>BTEX, EDB, EDC, MTBE, n-HEXANE LAB FILTER</u>
<u>Mr. P.D.</u>	<u>AEI</u>	<u>02.01.22</u>	<u>1352</u>	<u>* DIRECT TO FREIGHT ANALYTICAL</u>
				<u>(X) Added 2/10/22. JB (STA)</u>
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 05147-024-11

Initiated by: NB

OnSite Project Number: 02-007

Date Initiated: 2/1/22

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature:	<u>6</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A			
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- Gasoline Range Organics NWTPH-Gx
- Diesel and Heavy Oil Range Organics NWTPH-Dx
- Volatiles Organics EPA 8260D
- Total Metals EPA 200.8/7470A
- Dissolved Metals EPA 200.8/7470A
- Dissolved Methane RSK 175
- Alkalinity SM 2320B

Gasoline Range Organics
NWTPH-Gx Data

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202016.D Vial: 16
 Acq On : 2 Feb 2022 23:10 Operator:
 Sample : 02-007-01i Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 3 16:19 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.04	8337740	38.727 PPB
11) S BROMOFLUOROBENZENE #2	14.61	11130057	39.664 PPB m
Target Compounds			
2) H Entire GAS Envelope #2	14.08	27394948	0.169 PPM
3) H GASOLINE #2	14.70	17073398	0.122 PPM
4) MTBE #2 (1-21-22)	6.52	421032	5.685 PPB
5) BENZENE #2	8.81	1681252	5.449 PPB m
7) TOLUENE #2	11.27	84865	0.268 PPB
8) ETHYLBENZENE #2	13.29	98029	0.496 PPB
9) m,p-XYLENE #2	13.60	235389	0.747 PPB
10) o-XYLENE #2	14.09	61631	0.252 PPB

m
BCW
2-24

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202016.D
Acq On : 2 Feb 2022 23:10
Sample : 02-007-01i
Misc :

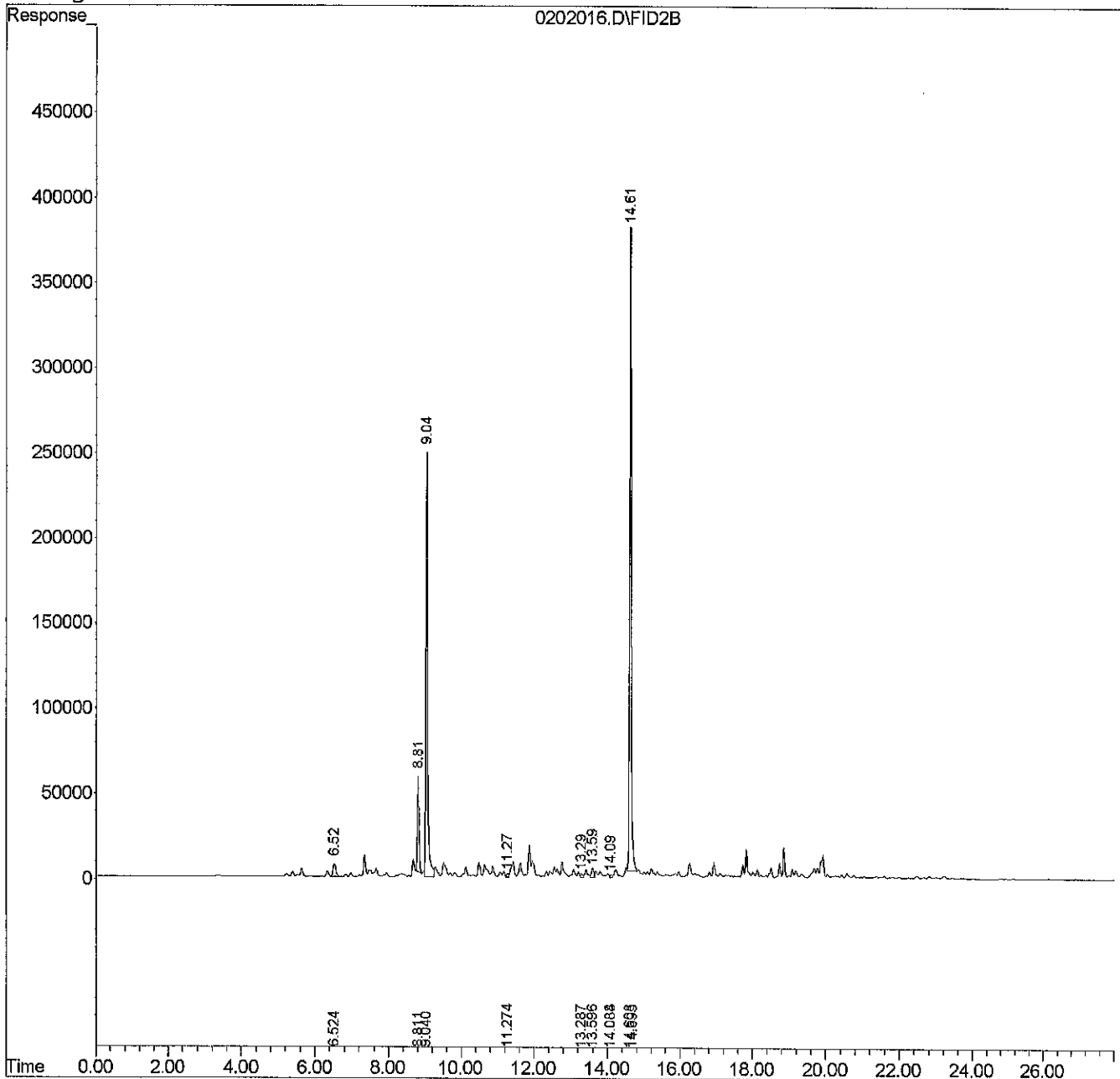
Vial: 16
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 3 16:19 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202003.D
 Acq On : 2 Feb 2022 13:36
 Sample : MB0202W1
 Misc :

Vial: 3
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 3 16:16 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.06	7953809	36.942 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11449265	40.808 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	5495882	0.018 PPM
3) H GASOLINE #2	14.70	3444465	0.013 PPM
4) MTBE #2 (1-21-22)	0.00	0	N.D. PPB
5) BENZENE #2	8.85	83260	0.230 PPB
7) TOLUENE #2	11.33	186644	0.612 PPB
8) ETHYLBENZENE #2	13.24	6623	0.159 PPB
9) m,p-XYLENE #2	13.61	311080	0.984 PPB
10) o-XYLENE #2	14.13	172805	0.663 PPB

m
2-7

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202003.D
Acq On : 2 Feb 2022 13:36
Sample : MB0202W1
Misc :

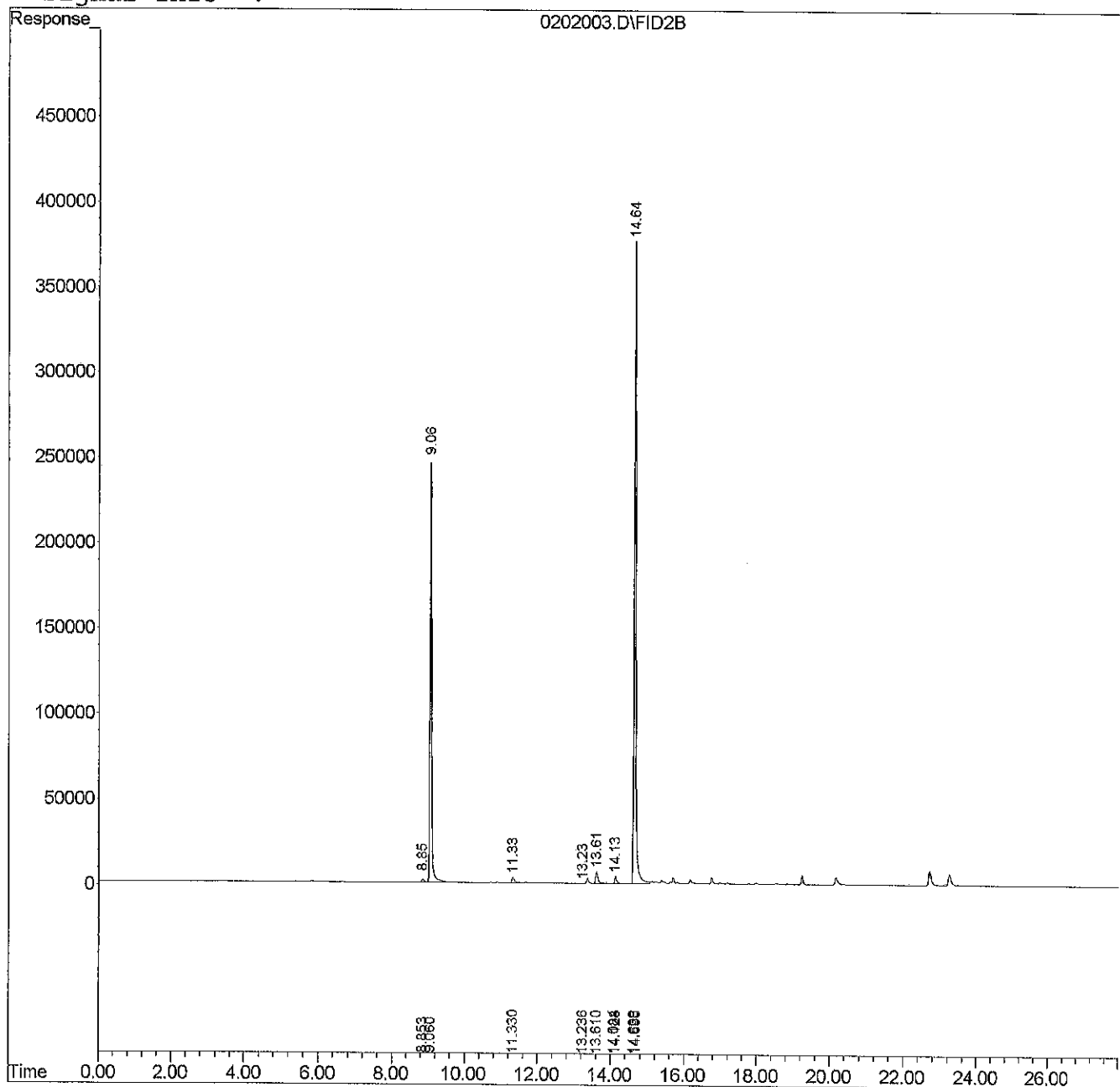
Vial: 3
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 3 16:16 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202005.D Vial: 5
 Acq On : 2 Feb 2022 15:22 Operator:
 Sample : 01-186-04g Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 2 15:44 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	8007938	37.193 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11547136	41.158 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	3708482	0.006 PPM
3) H GASOLINE #2	14.70	2446656	0.005 PPM
4) MTBE #2 (1-21-22)	6.54	7937	0.107 PPB
5) BENZENE #2	8.87	25159	0.041 PPB
7) TOLUENE #2	11.35	88918	0.281 PPB
8) ETHYLBENZENE #2	13.24	4690	0.152 PPB
9) m,p-XYLENE #2	13.62	147682	0.473 PPB
10) o-XYLENE #2	14.14	52167	0.217 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202005.D
Acq On : 2 Feb 2022 15:22
Sample : 01-186-04g
Misc :

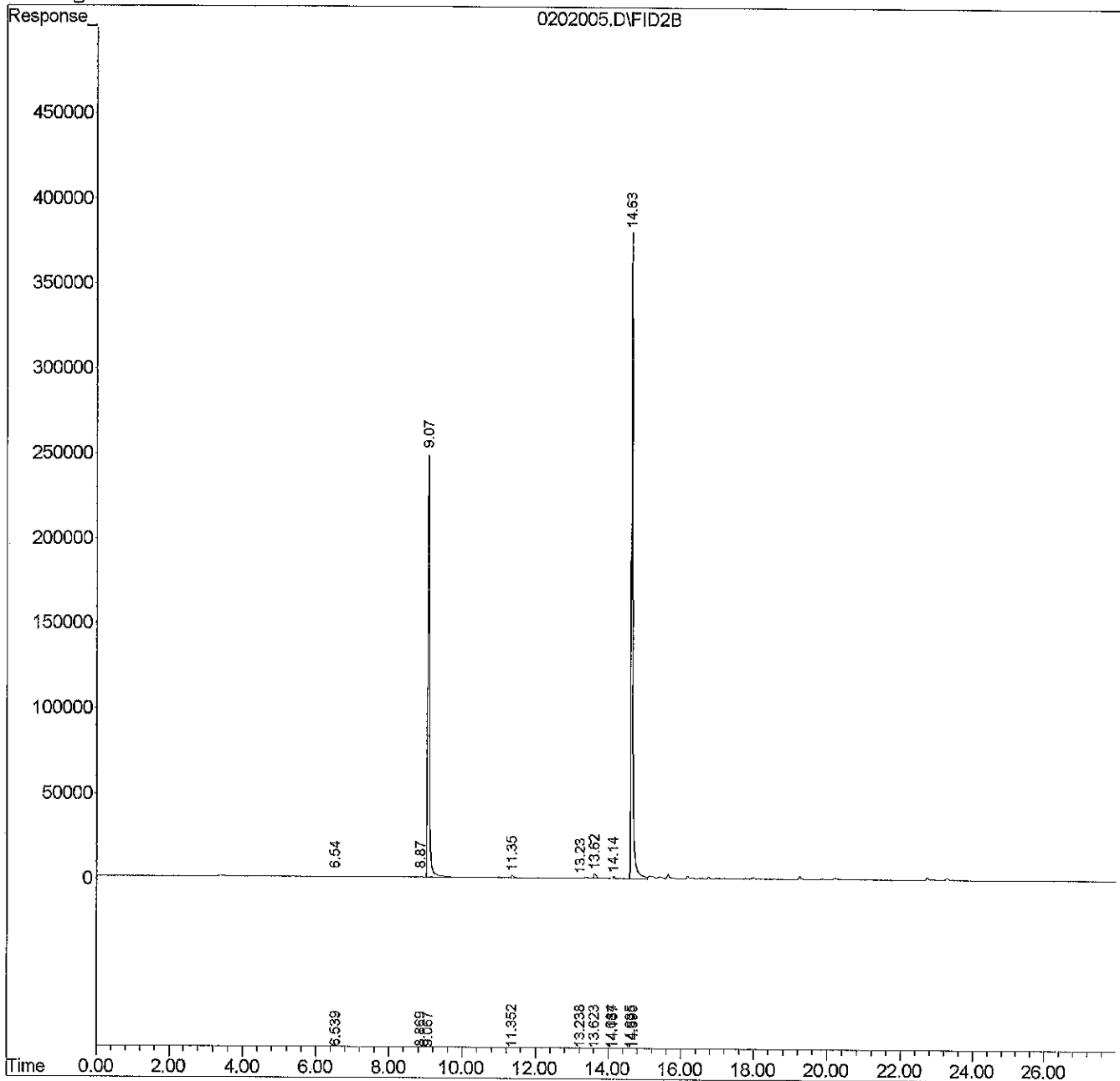
Vial: 5
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 15:44 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202006.D Vial: 6
 Acq On : 2 Feb 2022 16:07 Operator:
 Sample : 01-186-04g DUP Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 2 16:21 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	7953514	36.940 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11410569	40.669 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	3089257	0.001 PPM
3) H GASOLINE #2	14.70	1968772	0.001 PPM
4) MTBE #2 (1-21-22)	6.50	12272	0.166 PPB
5) BENZENE #2	8.88	16301	0.012 PPB
7) TOLUENE #2	0.00	0	N.D. PPB
8) ETHYLBENZENE #2	13.24	3264	0.147 PPB
9) m,p-XYLENE #2	13.64	75630	0.248 PPB
10) o-XYLENE #2	14.15	24978	0.116 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202006.D
Acq On : 2 Feb 2022 16:07
Sample : 01-186-04g DUP
Misc :

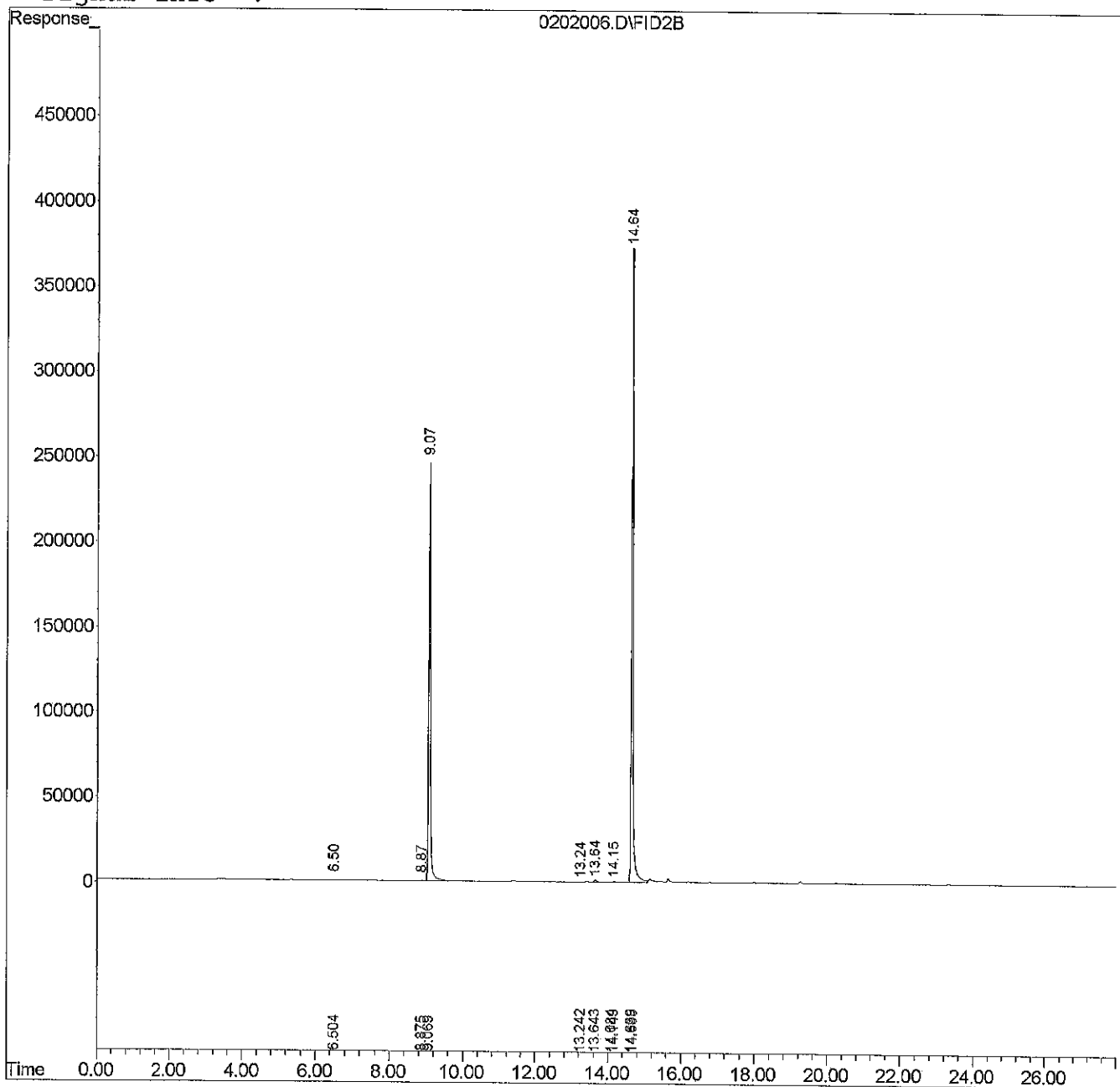
Vial: 6
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 16:21 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202001.D Vial: 1
 Acq On : 2 Feb 2022 12:21 Operator:
 Sample : CCVH0202G-1 Inst : Hope
 Misc : V2-064-09 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 2 12:40 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.06	8193332	38.055 PPB
11) S BROMOFLUOROBENZENE #2	14.64	13222435	47.158 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	353424773	2.415 PPM
3) H GASOLINE #2	14.70	305862110	2.439 PPM
4) MTBE #2 (1-21-22)	6.54	1429627	19.304 PPB
5) BENZENE #2	8.83	6113268	19.924 PPB
7) TOLUENE #2	11.29	63033983	213.130 PPB
8) ETHYLBENZENE #2	13.32	16111194	59.477 PPB
9) m,p-XYLENE #2	13.57	67606580	211.355 PPB
10) o-XYLENE #2	14.10	26555159	98.221 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202001.D
Acq On : 2 Feb 2022 12:21
Sample : CCVH0202G-1
Misc : V2-064-09

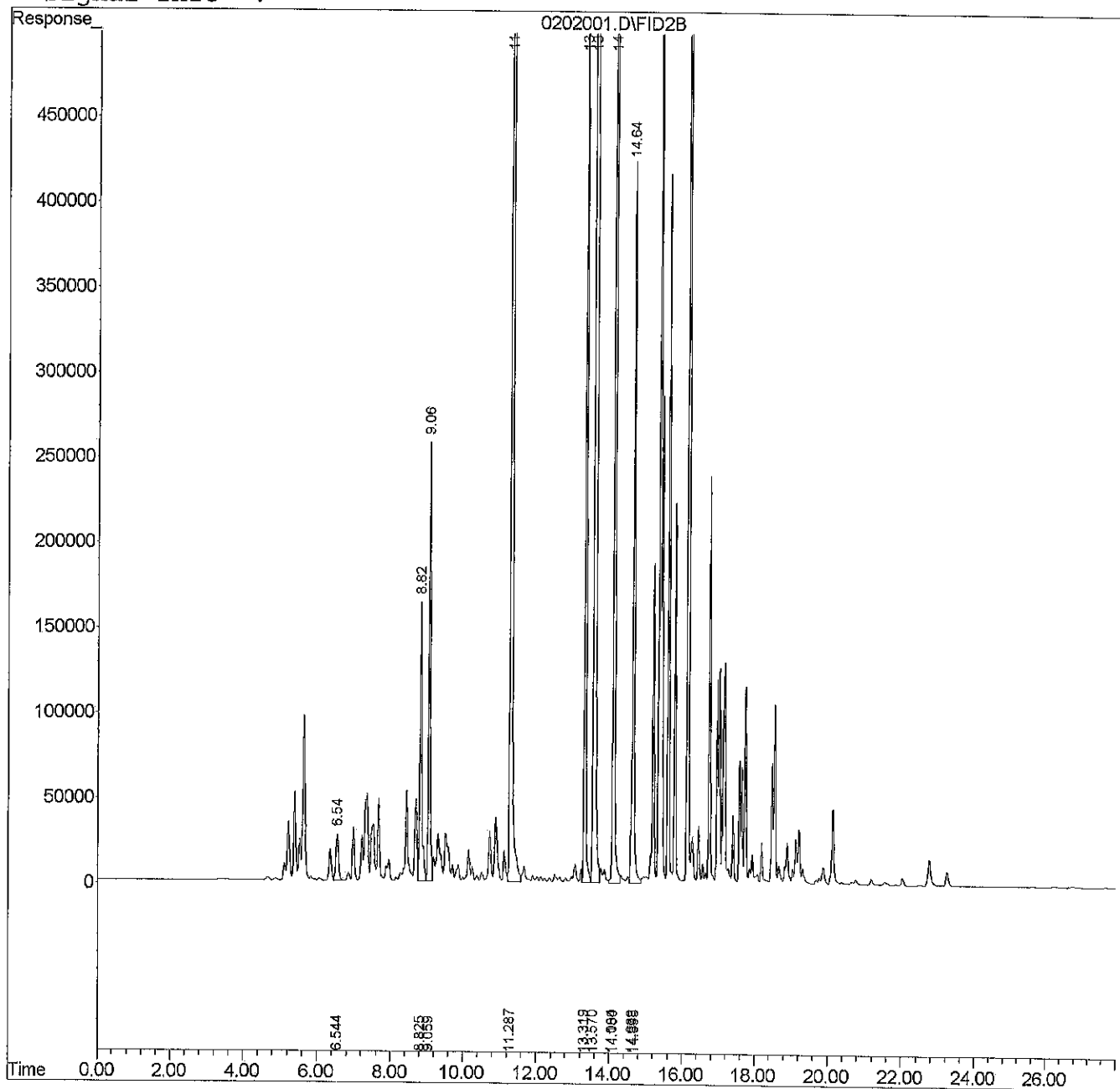
Vial: 1
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 2 12:40 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202021.D Vial: 21
 Acq On : 3 Feb 2022 2:11 Operator:
 Sample : CCVH0202G-2 Inst : Hope
 Misc : V2-064-09 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 3 2:26 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.03	8168680	37.941 PPB
11) S BROMOFLUOROBENZENE #2	14.60	12987708	46.317 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	344974266	2.357 PPM
3) H GASOLINE #2	14.70	298040608	2.376 PPM
4) MTBE #2 (1-21-22)	6.52	1444193	19.501 PPB
5) BENZENE #2	8.80	5979166	19.486 PPB
7) TOLUENE #2	11.25	62400182	210.987 PPB
8) ETHYLBENZENE #2	13.28	15903447	58.711 PPB
9) m,p-XYLENE #2	13.53	66886574	209.104 PPB
10) o-XYLENE #2	14.06	26266181	97.152 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220202\0202021.D
Acq On : 3 Feb 2022 2:11
Sample : CCVH0202G-2
Misc : V2-064-09

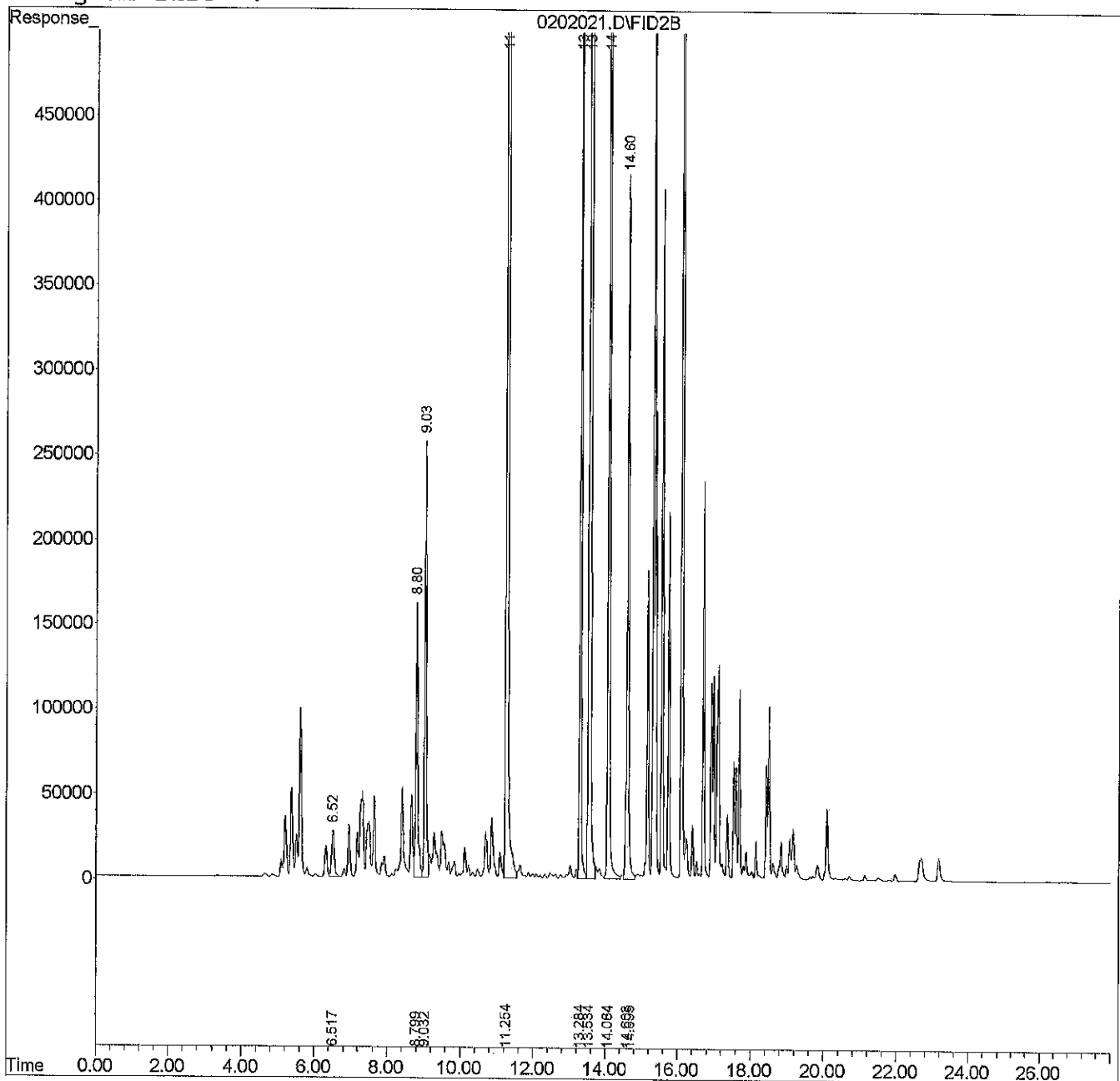
Vial: 21
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 3 2:26 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Diesel and Heavy Oil Range Organics
NWTPH-Dx Data

Data Path : X:\DIESELS\Teri\Data\T220209.SEC\
 Data File : 0209-T74.D
 Signal(s) : FID2B.CH
 Acq On : 10 Feb 2022 1:58
 Operator : JP
 Sample : 02-007-01
 Misc : RearSamp
 ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 02:34:00 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:22:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (02-01-22)	14.758	157864605	55.307 PPM
Spiked Amount	50.000	Recovery =	110.61%
Target Compounds			
2) H Gasoline	4.000	25129081	NoCal PPM
3) H Diesel Fuel #1	10.000	249869703	NoCal PPM
4) H Diesel Fuel #2 (2-01-22)	14.000	365919278	150.920 PPM
5) H Oil (02-01-22)	22.000	341193672	182.293 PPM
6) H Oil Acid Clean (02-08...	22.000	341193672	162.937 PPM
7) H Diesel Fuel #2 Combo ...	14.000	307972275	130.429 PPM
8) H Oil Combo (02-01-22)	22.000	270953213	145.016 PPM
9) H Oil Acid Clean Combo ...	22.000	270953213	128.876 PPM
10) H Oil MO Combo (02-01-22)	22.000	221253880	119.859 PPM
11) H Oil Acid Clean MO Com...	22.000	221253880	105.818 PPM
12) H HAWAII 8015M DF2 (02-...	14.000	360902697	150.260 PPM
13) H HAWAII 8015M Oil (02-...	22.000	216500024	118.290 PPM
14) H Mineral Oil (02-08-22)	16.000	389800664	147.457 PPM
15) H Mineral Oil Combo (02...	16.000	306093714	120.629 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	365919278	143.874 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	307972275	124.314 PPM

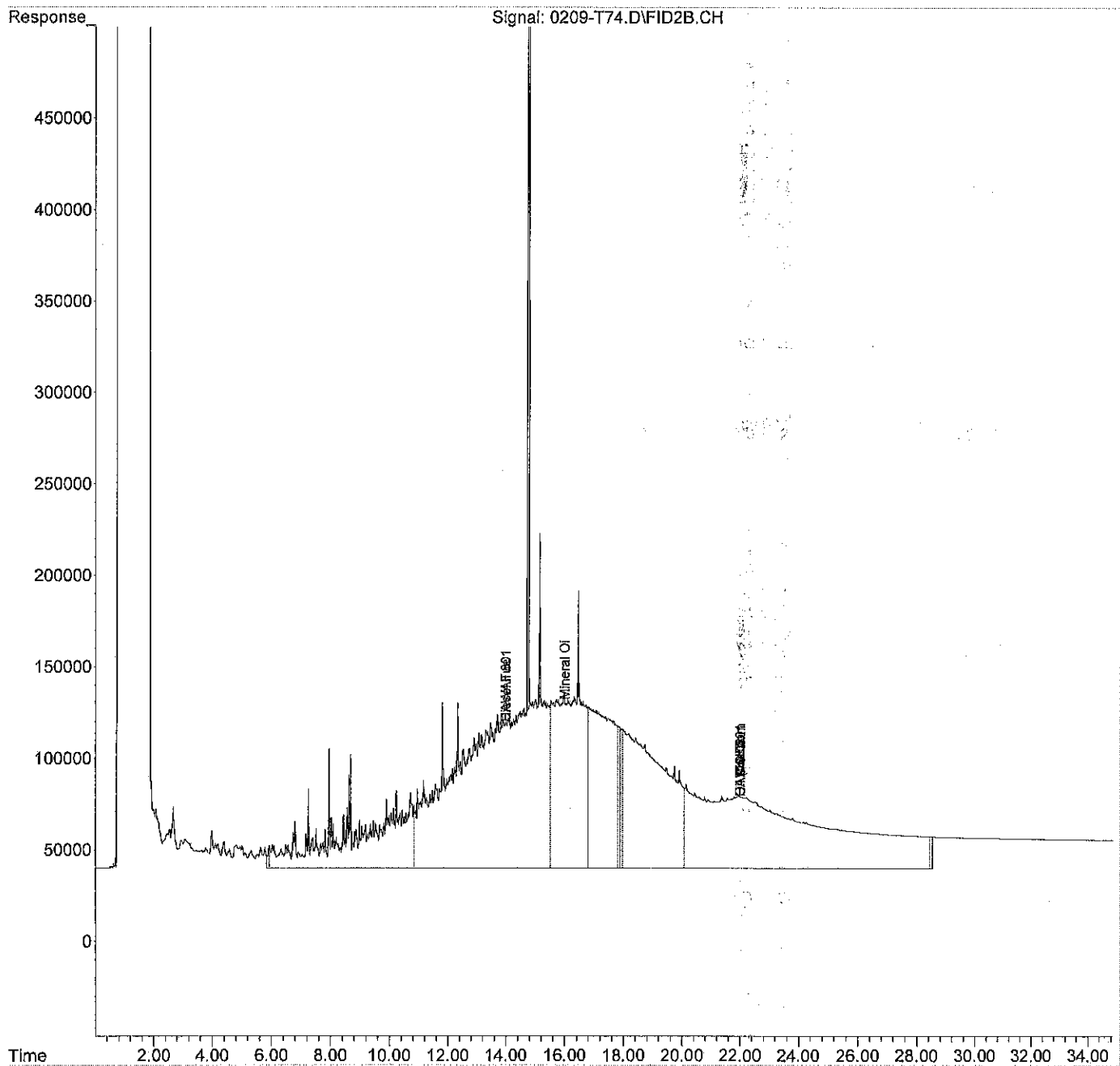
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220209.SEC\
Data File : 0209-T74.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2022 1:58
Operator : JP
Sample : 02-007-01
Misc : RearSamp
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 02:34:00 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:22:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V55.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 11:19
 Operator : JP
 Sample : 02-007-01 ACU RECON
 Misc : RearSamp
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 11:56:08 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.622	142112318	57.183 PPM
Spiked Amount 50.000		Recovery =	114.37%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	32369659	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	50562375	8.394 PPM
5) H Diesel Fuel #2 (05-1...	14.000	41264450	15.153 PPM
6) H Oil (05-19-21)	22.000	32530770	5.378 PPM
7) H Oil Acid Clean (05-21...	22.000	32530770	6.766 PPM
8) H Diesel Fuel #2 Combo ...	14.000	39548304	15.114 PPM
9) H Oil Combo (05-19-21)	22.000	30607745	4.644 PPM
10) H Oil Acid Clean Combo ...	22.000	30607745	6.206 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	40613021	15.061 PPM
12) H HAWAII 8015M Oil (05...	22.000	28746734	4.066 PPM
13) H Mineral Oil (05-19-21)	16.000	21607822	7.891 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	41264450	13.328 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	39548304	13.472 PPM
16) H Hydraulic Oil (03-19...	14.000	26266648	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	15852794	6.935 PPM
18) H Oil Acid Clean MO Com...	22.000	28515336	5.712 PPM
19) H Oil MO Combo (05-19-21)	22.000	28515336	3.901 PPM
20) H JP-4 (03-24-21)	8.000	71130500	NoCal PPM
21) H JP-5 (03-25-21)	8.000	43501704	NoCal PPM
22) H JP-8 (03-26-21)	8.000	47019367	NoCal PPM

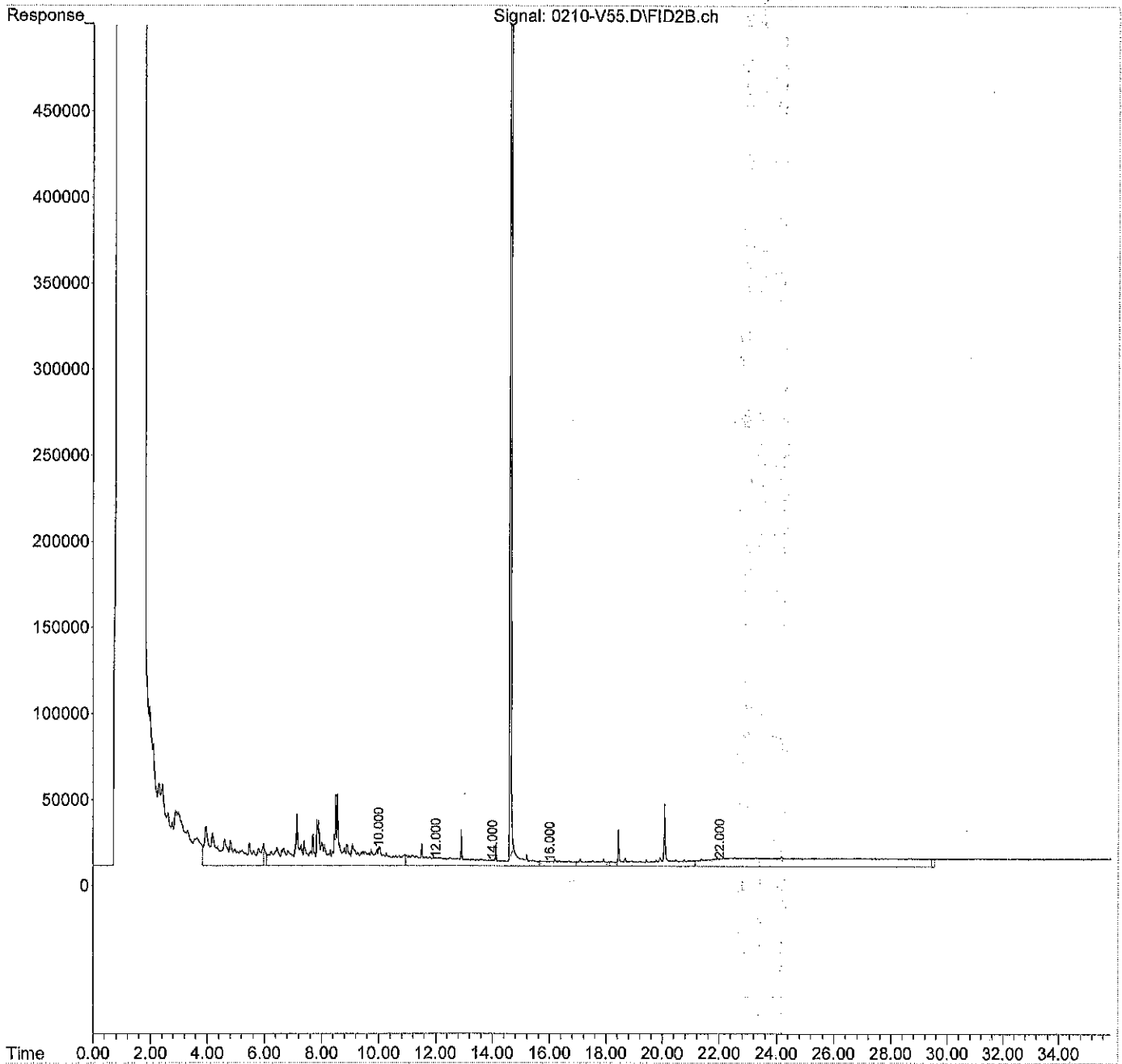
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V55.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 11:19
Operator : JP
Sample : 02-007-01 ACU RECON
Misc : RearSamp
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 11:56:08 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
 Data File : 0207-V55.D
 Signal(s) : FID2B.ch
 Acq On : 7 Feb 2022 12:53
 Operator : LIMS import
 Sample : MB0207W1
 Misc : RearSamp
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 07 13:29:49 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.605	166725207	67.034 PPM
Spiked Amount	50.000	Recovery	= 134.07%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17622370	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	20964870	1.171 PPM
5) H Diesel Fuel #2 (05-1...	14.000	17091516	3.675 PPM
6) H Oil (05-19-21)	22.000	30935254	4.362 PPM
7) H Oil Acid Clean (05-21...	22.000	30935254	5.817 PPM
8) H Diesel Fuel #2 Combo ...	14.000	15992312	3.615 PPM
9) H Oil Combo (05-19-21)	22.000	29655029	4.028 PPM
10) H Oil Acid Clean Combo ...	22.000	29655029	5.631 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	16753327	3.642 PPM
12) H HAWAII 8015M Oil (05-...	22.000	28379309	3.820 PPM
13) H Mineral Oil (05-19-21)	16.000	12675822	3.982 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	17091516	3.357 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	15992312	3.467 PPM
16) H Hydraulic Oil (03-19...	14.000	17567100	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	8978552	3.851 PPM
18) H Oil Acid Clean MO Com...	22.000	28271219	5.558 PPM
19) H Oil MO Combo (05-19-21)	22.000	28271219	3.736 PPM
20) H JP-4 (03-24-21)	8.000	33527621	NoCal PPM
21) H JP-5 (03-25-21)	8.000	16752962	NoCal PPM
22) H JP-8 (03-26-21)	8.000	18485067	NoCal PPM

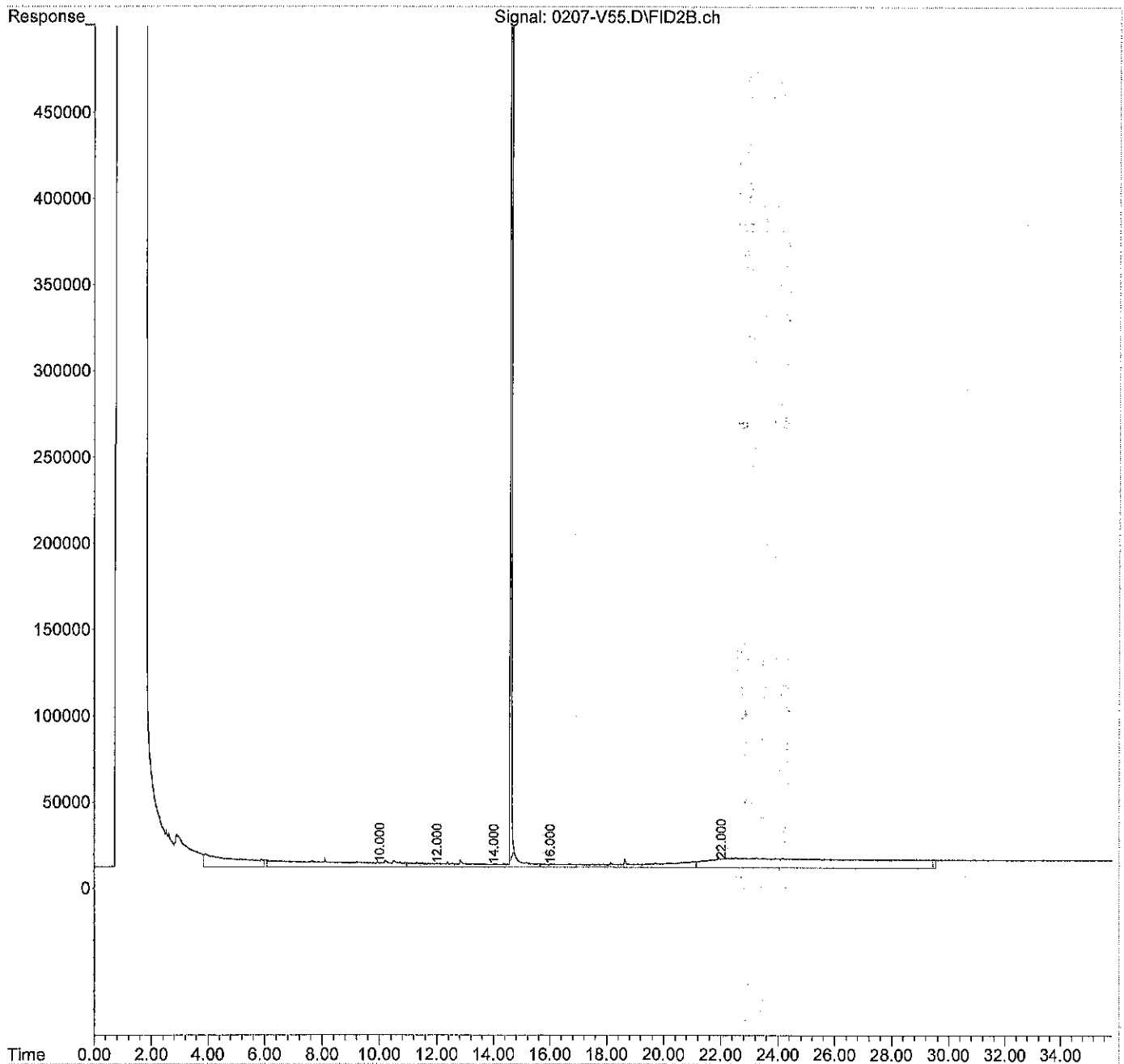
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(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
Data File : 0207-V55.D
Signal(s) : FID2B.ch
Acq On : 7 Feb 2022 12:53
Operator : LIMS import
Sample : MB0207W1
Misc : RearSamp
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 13:29:49 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V53.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 9:21
 Operator : JP
 Sample : MB0207W1 ACU
 Misc : RearSamp
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 09:58:38 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.622	149501316	60.140 PPM
Spiked Amount 50.000		Recovery =	120.28%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	16906664	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	19870335	0.904 PPM
5) H Diesel Fuel #2 (05-1...	14.000	17336875	3.792 PPM
6) H Oil (05-19-21)	22.000	28636725	2.898 PPM
7) H Oil Acid Clean (05-21...	22.000	28636725	4.450 PPM
8) H Diesel Fuel #2 Combo ...	14.000	16069287	3.652 PPM
9) H Oil Combo (05-19-21)	22.000	26517301	1.998 PPM
10) H Oil Acid Clean Combo ...	22.000	26517301	3.736 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	17027330	3.773 PPM
12) H HAWAII 8015M Oil (05...	22.000	25082059	1.614 PPM
13) H Mineral Oil (05-19-21)	16.000	13468877	4.329 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	17336875	3.458 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	16069287	3.500 PPM
16) H Hydraulic Oil (03-19...	14.000	17450793	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	10011044	4.315 PPM
18) H Oil Acid Clean MO Com...	22.000	24988223	3.486 PPM
19) H Oil MO Combo (05-19-21)	22.000	24988223	1.517 PPM
20) H JP-4 (03-24-21)	8.000	31632521	NoCal PPM
21) H JP-5 (03-25-21)	8.000	15367141	NoCal PPM
22) H JP-8 (03-26-21)	8.000	16860976	NoCal PPM

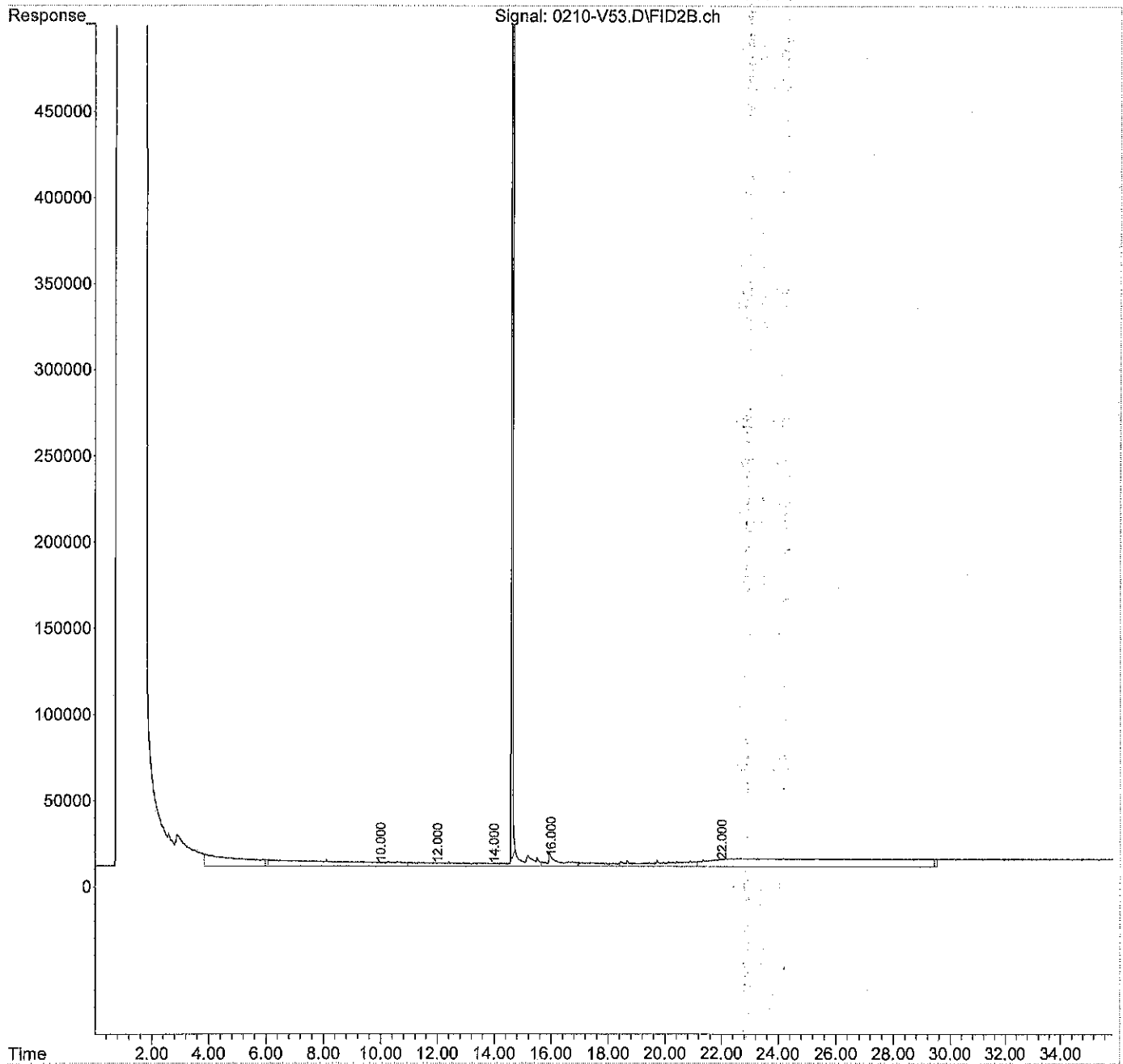
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(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V53.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 9:21
Operator : JP
Sample : MB0207W1 ACU
Misc : RearSamp
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 09:58:38 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
 Data File : 0207-V56.D
 Signal(s) : FID2B.ch
 Acq On : 7 Feb 2022 13:33
 Operator : LIMS import
 Sample : SB0207W1
 Misc : RearSamp
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 07 14:09:40 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.602	143662478	57.804 PPM
Spiked Amount 50.000		Recovery =	115.61%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	25883071	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	168208568	37.104 PPM
5) H Diesel Fuel #2 (05-1...	14.000	173017587	77.714 PPM
6) H Oil (05-19-21)	22.000	40370375	10.372 PPM
7) H Oil Acid Clean (05-21...	22.000	40370375	11.431 PPM
8) H Diesel Fuel #2 Combo ...	14.000	168645485	78.136 PPM
9) H Oil Combo (05-19-21)	22.000	29061456	3.644 PPM
10) H Oil Acid Clean Combo ...	22.000	29061456	5.272 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	172323549	78.097 PPM
12) H HAWAII 8015M Oil (05-...	22.000	24676070	1.342 PPM
13) H Mineral Oil (05-19-21)	16.000	127903695	54.406 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	173017587	67.673 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	168645485	68.301 PPM
16) H Hydraulic Oil (03-19...	14.000	134303244	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	124277105	55.581 PPM
18) H Oil Acid Clean MO Com...	22.000	24135077	2.948 PPM
19) H Oil MO Combo (05-19-21)	22.000	24135077	0.941 PPM
20) H JP-4 (03-24-21)	8.000	115814416	NoCal PPM
21) H JP-5 (03-25-21)	8.000	97038174	NoCal PPM
22) H JP-8 (03-26-21)	8.000	140234630	NoCal PPM

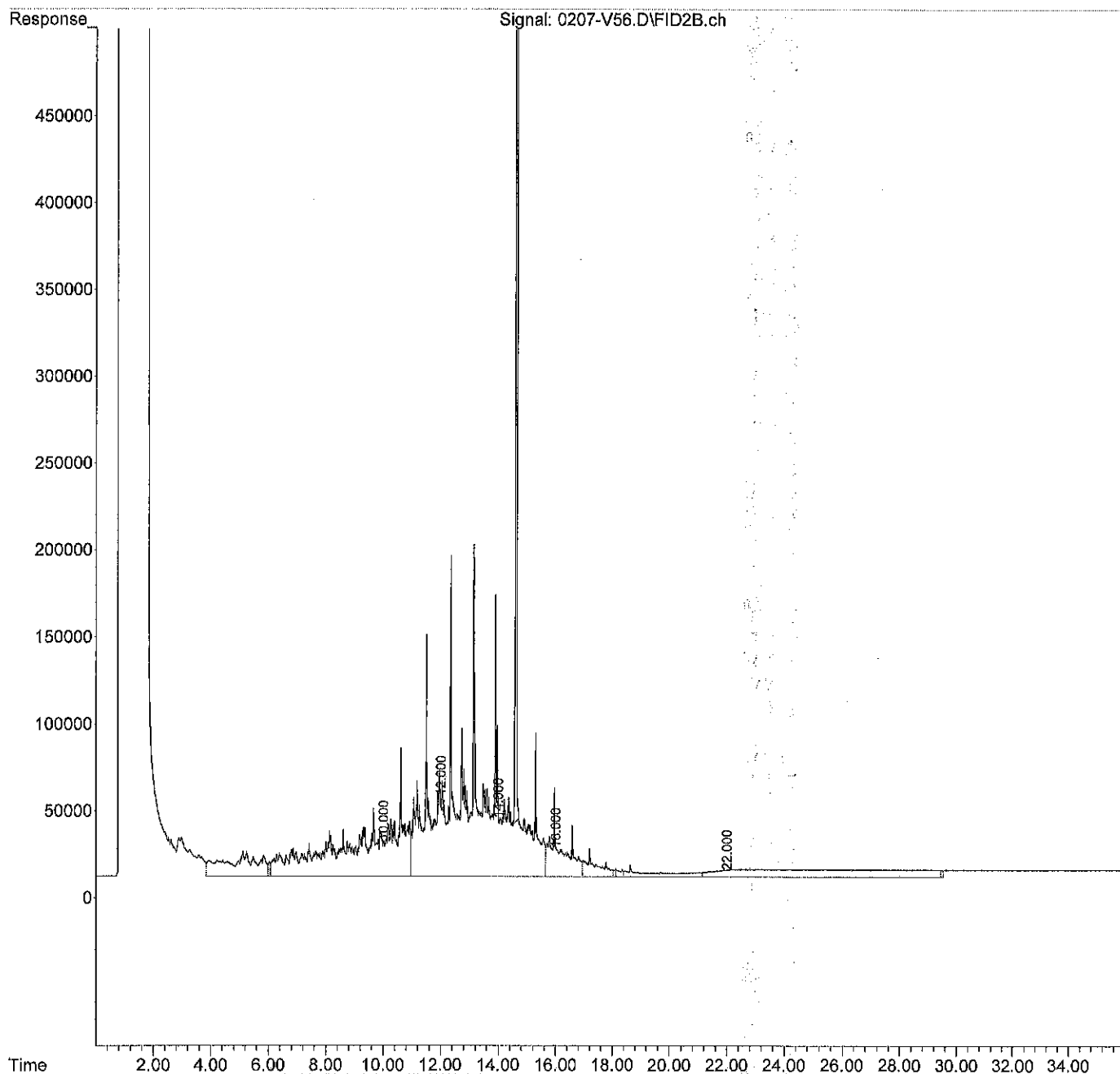
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
Data File : 0207-V56.D
Signal(s) : FID2B.ch
Acq On : 7 Feb 2022 13:33
Operator : LIMS import
Sample : SB0207W1
Misc : RearSamp
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 14:09:40 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
 Data File : 0207-V57.D
 Signal(s) : FID2B.ch
 Acq On : 7 Feb 2022 14:12
 Operator : LIMS import
 Sample : SB0207W1 DUP
 Misc : RearSamp
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 07 14:49:36 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.601	128230367	51.627 PPM
Spiked Amount	50.000	Recovery =	103.25%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	25405891	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	161274835	35.412 PPM
5) H Diesel Fuel #2 (05-1...	14.000	164465796	73.653 PPM
6) H Oil (05-19-21)	22.000	36521431	7.920 PPM
7) H Oil Acid Clean (05-21...	22.000	36521431	9.141 PPM
8) H Diesel Fuel #2 Combo ...	14.000	160595823	74.207 PPM
9) H Oil Combo (05-19-21)	22.000	26293759	1.854 PPM
10) H Oil Acid Clean Combo ...	22.000	26293759	3.601 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	163796510	74.016 PPM
12) H HAWAII 8015M Oil (05-...	22.000	22387657	N.D. PPM
13) H Mineral Oil (05-19-21)	16.000	117953168	50.052 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	164465796	64.145 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	160595823	64.883 PPM
16) H Hydraulic Oil (03-19...	14.000	123887589	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	115059171	51.445 PPM
18) H Oil Acid Clean MO Com...	22.000	21952277	1.570 PPM
19) H Oil MO Combo (05-19-21)	22.000	21952277	N.D. PPM
20) H JP-4 (03-24-21)	8.000	113021403	NoCal PPM
21) H JP-5 (03-25-21)	8.000	95294949	NoCal PPM
22) H JP-8 (03-26-21)	8.000	135332837	NoCal PPM

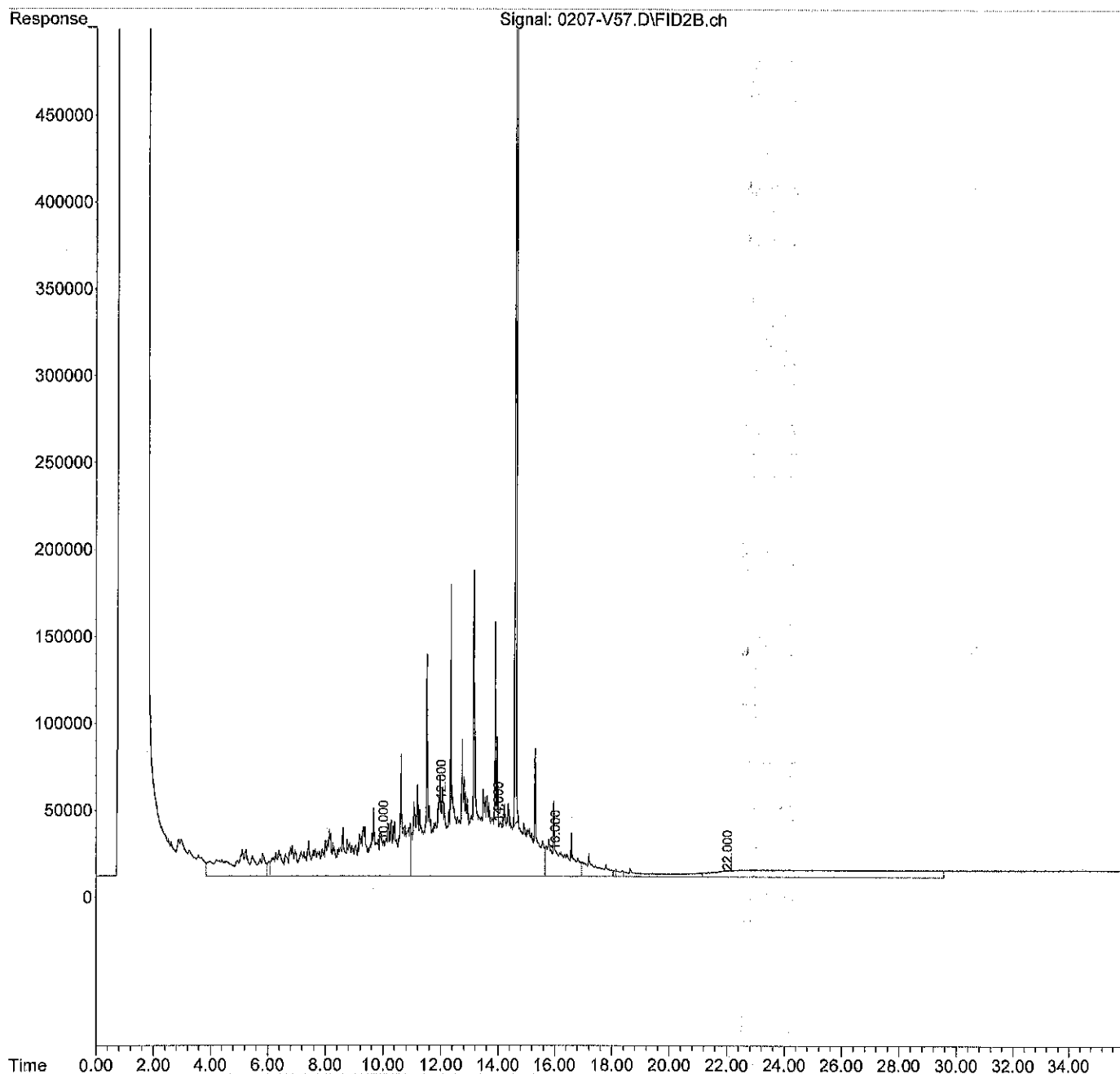
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
Data File : 0207-V57.D
Signal(s) : FID2B.ch
Acq On : 7 Feb 2022 14:12
Operator : LIMS import
Sample : SB0207W1 DUP
Misc : RearSamp
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 14:49:36 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220210.SEC\
 Data File : 0210-T57.D
 Signal(s) : FID2B.CH
 Acq On : 10 Feb 2022 14:23
 Operator : JP
 Sample : SB0207W1 ACU
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 14:58:53 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:22:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (02-01-22)	14.767	154129065	53.995 PPM
Spiked Amount 50.000		Recovery =	107.99%
Target Compounds			
2) H Gasoline	4.000	28067303	NoCal PPM
3) H Diesel Fuel #1	10.000	256125805	NoCal PPM
4) H Diesel Fuel #2 (2-01-22)	14.000	271977375	111.709 PPM
5) H Oil (02-01-22)	22.000	135708757	66.206 PPM
6) H Oil Acid Clean (02-08...	22.000	135708757	56.730 PPM
7) H Diesel Fuel #2 Combo ...	14.000	262600732	110.964 PPM
8) H Oil Combo (02-01-22)	22.000	115146577	55.620 PPM
9) H Oil Acid Clean Combo ...	22.000	115146577	47.220 PPM
10) H Oil MO Combo (02-01-22)	22.000	106934740	52.445 PPM
11) H Oil Acid Clean MO Com...	22.000	106934740	44.374 PPM
12) H HAWAII 8015M DF2 (02-...	14.000	270605980	112.247 PPM
13) H HAWAII 8015M Oil (02-...	22.000	105151695	52.465 PPM
14) H Mineral Oil (02-08-22)	16.000	196785373	73.828 PPM
15) H Mineral Oil Combo (02...	16.000	186201278	73.137 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	271977375	106.320 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	262600732	105.674 PPM

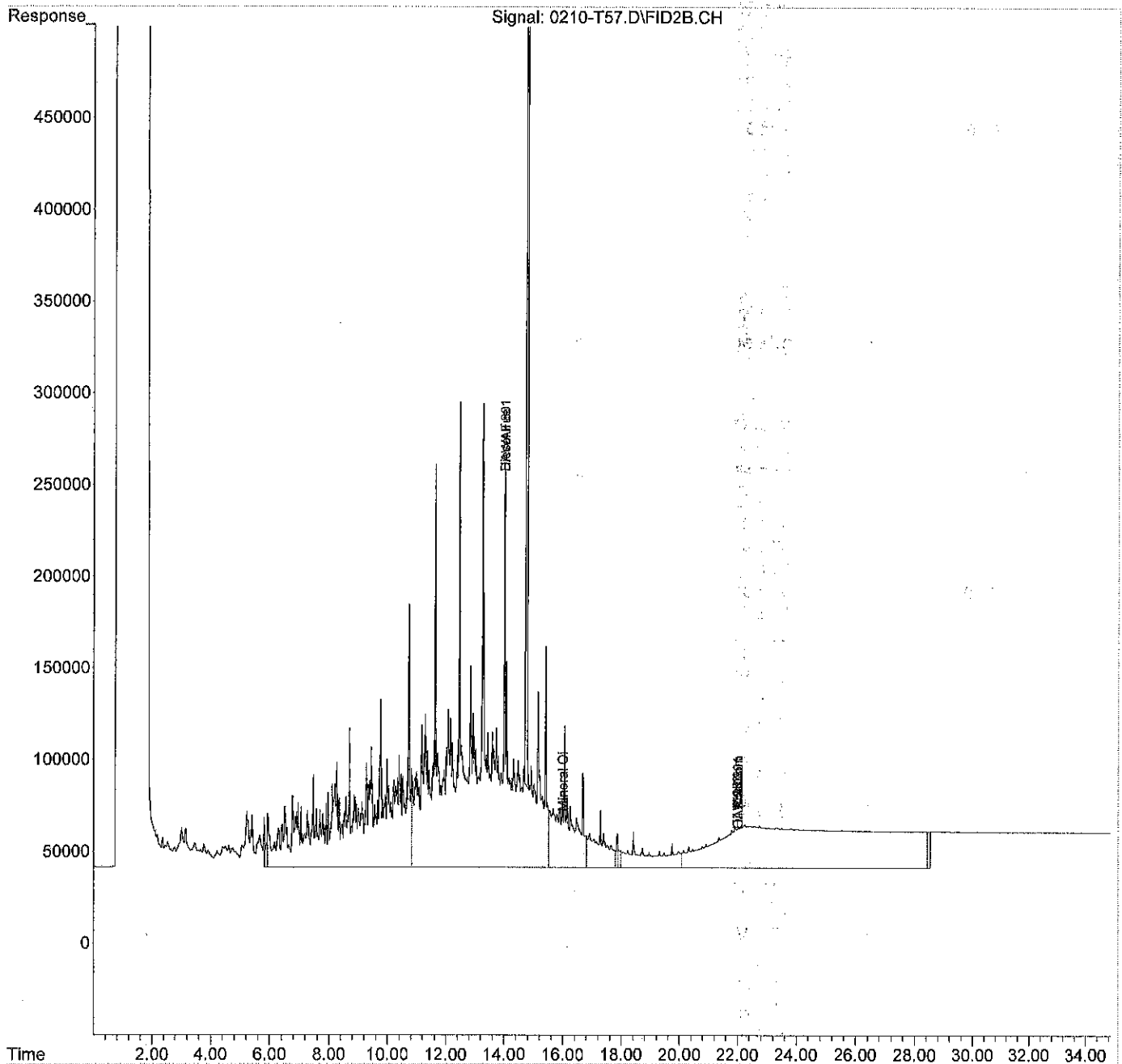
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220210.SEC\
Data File : 0210-T57.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2022 14:23
Operator : JP
Sample : SB0207W1 ACU
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 14:58:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:22:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220210\
 Data File : 0210-T07.D
 Signal(s) : FID1A.CH
 Acq On : 10 Feb 2022 14:23
 Operator : JP
 Sample : SB0207W1 ACU DUP
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 14:58:31 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201F.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:03:56 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (02-01-22)	14.874	111185636	45.131 PPM
Spiked Amount 50.000		Recovery =	90.26%
Target Compounds			
2) H Gasoline	4.000	24757872	NoCal PPM
3) H Diesel Fuel #1	10.000	178200535	NoCal PPM
4) H Diesel Fuel #2 (02-01-22)	14.000	183960713	88.005 PPM
5) H Oil (02-01-22)	22.000	54323745	20.086 PPM
6) H Oil Acid Clean (02-08-22)	22.000	54323745	19.276 PPM
7) H Diesel Fuel #2 Combo ...	14.000	179291039	88.296 PPM
8) H Oil Combo (02-01-22)	22.000	41959975	11.941 PPM
9) H Oil Acid Clean Combo ...	22.000	41959975	12.331 PPM
10) H Oil MO Combo (02-01-22)	22.000	37830670	9.244 PPM
11) H Oil Acid Clean MO Com...	22.000	37830670	10.509 PPM
12) H HAWAII 8015M DF2 (02-01-22)	14.000	183031774	88.803 PPM
13) H HAWAII 8015M Oil (02-01-22)	22.000	37117308	8.739 PPM
14) H Mineral Oil (02-08-22)	16.000	127503485	57.435 PPM
15) H Mineral Oil Combo (02-08-22)	16.000	123982645	58.415 PPM
16) H Diesel Fuel #2 ACU (02-01-22)	14.000	183960713	83.328 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	179291039	83.765 PPM

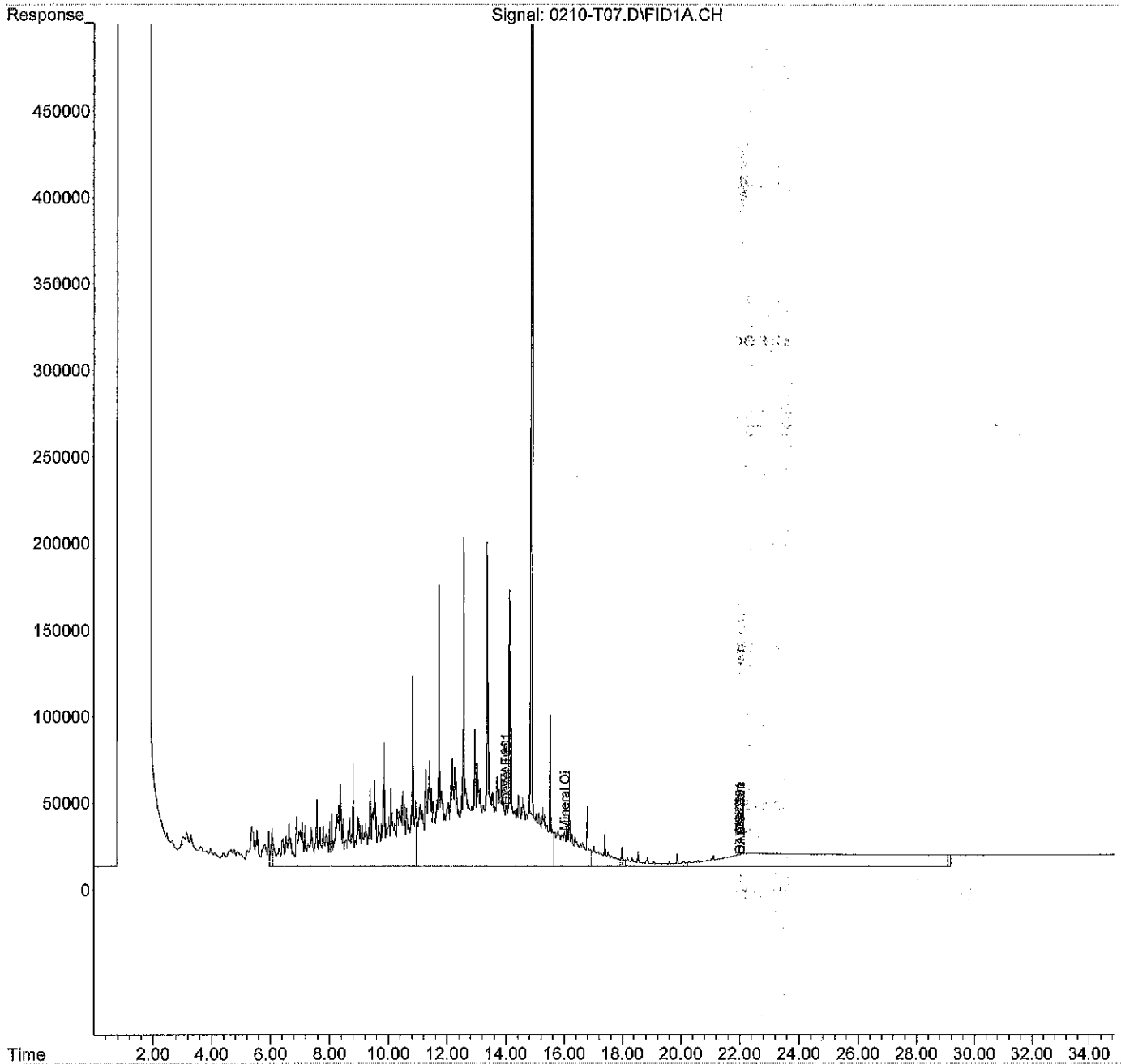
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220210\
Data File : 0210-T07.D
Signal(s) : FID1A.CH
Acq On : 10 Feb 2022 14:23
Operator : JP
Sample : SB0207W1 ACU DUP
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 14:58:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201F.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:03:56 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
 Data File : 0207-V53.D
 Signal(s) : FID2B.ch
 Acq On : 7 Feb 2022 11:26
 Operator : LIMS import
 Sample : CCV0207R-V2
 Misc : RearSamp
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 07 12:02:57 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	41689224	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	230065125	52.200	PPM
5) H Diesel Fuel #2 (05-1...	14.000	229857622	104.703	PPM
6) H Oil (05-19-21)	22.000	56561470	20.686	PPM
7) H Oil Acid Clean (05-21...	22.000	56561470	21.063	PPM
8) H Diesel Fuel #2 Combo ...	14.000	223947402	105.133	PPM
9) H Oil Combo (05-19-21)	22.000	43457438	12.955	PPM
10) H Oil Acid Clean Combo ...	22.000	43457438	13.965	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	228656094	105.058	PPM
12) H HAWAII 8015M Oil (05-...	22.000	37617337	10.001	PPM
13) H Mineral Oil (05-19-21)	16.000	151143805	64.576	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	229857622	91.118	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	223947402	91.789	PPM
16) H Hydraulic Oil (03-19...	14.000	161148143	NoCal	PPM
17) H Mineral Oil Combo (05-...	16.000	143617445	64.258	PPM
18) H Oil Acid Clean MO Com...	22.000	36620236	10.827	PPM
19) H Oil MO Combo (05-19-21)	22.000	36620236	9.380	PPM
20) H JP-4 (03-24-21)	8.000	176178824	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	152139622	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	198168153	NoCal	PPM

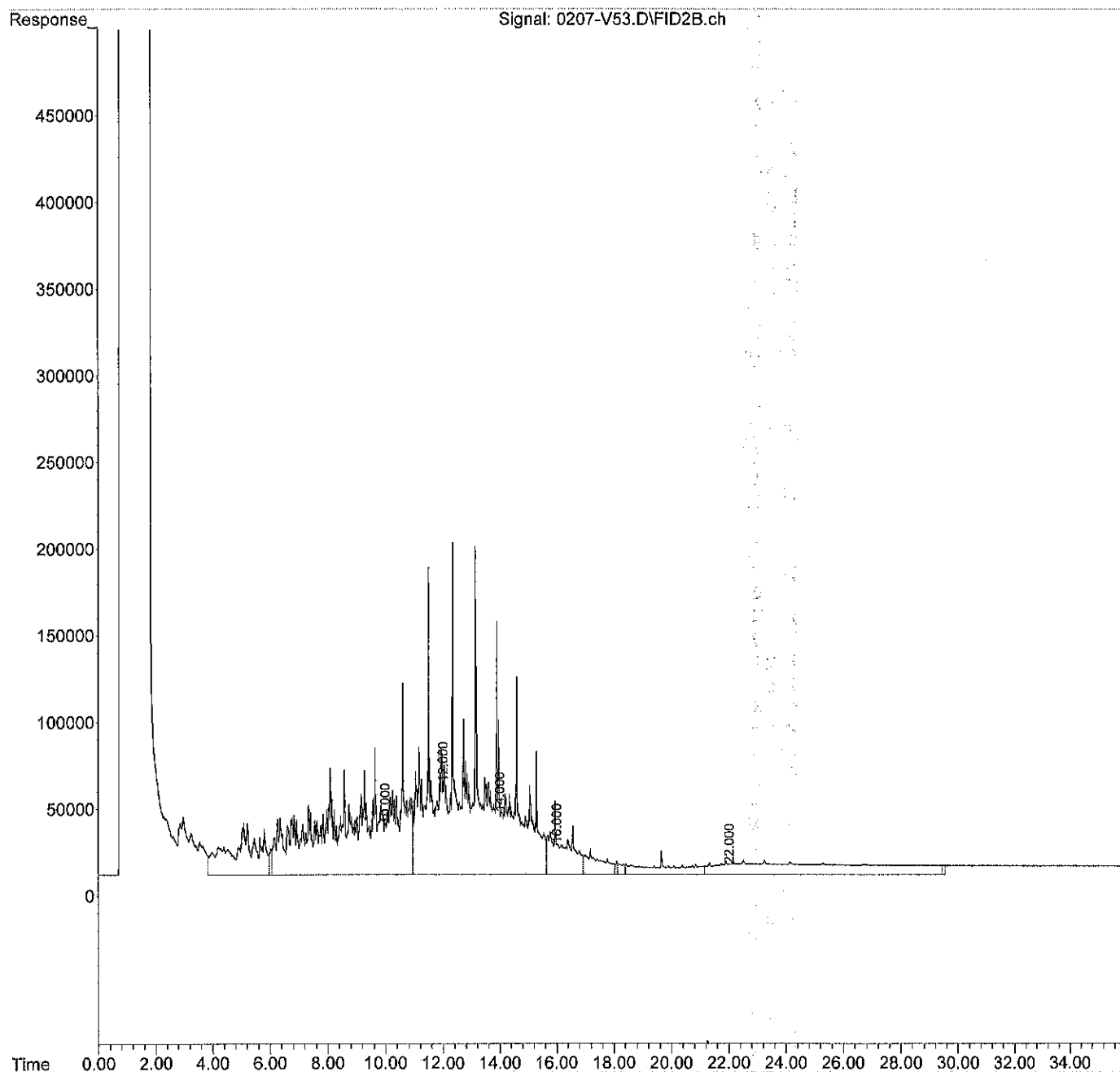
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
Data File : 0207-V53.D
Signal(s) : FID2B.ch
Acq On : 7 Feb 2022 11:26
Operator : LIMS import
Sample : CCV0207R-V2
Misc : RearSamp
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 12:02:57 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
 Data File : 0207-V63.D
 Signal(s) : FID2B.ch
 Acq On : 7 Feb 2022 18:29
 Operator : LIMS import
 Sample : CCV0207R-V3
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 07 19:06:01 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.595	1754292	1.010 PPM
Spiked Amount 50.000		Recovery =	2.02%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	39157987	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	229260292	52.003 PPM
5) H Diesel Fuel #2 (05-1...	14.000	227145874	103.415 PPM
6) H Oil (05-19-21)	22.000	42185353	11.528 PPM
7) H Oil Acid Clean (05-21...	22.000	42185353	12.510 PPM
8) H Diesel Fuel #2 Combo ...	14.000	222654007	104.502 PPM
9) H Oil Combo (05-19-21)	22.000	30309938	4.451 PPM
10) H Oil Acid Clean Combo ...	22.000	30309938	6.026 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	226166359	103.866 PPM
12) H HAWAII 8015M Oil (05-...	22.000	25790249	2.088 PPM
13) H Mineral Oil (05-19-21)	16.000	146749758	62.653 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	227145874	89.999 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	222654007	91.240 PPM
16) H Hydraulic Oil (03-19...	14.000	154864528	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	143114973	64.033 PPM
18) H Oil Acid Clean MO Com...	22.000	25274011	3.666 PPM
19) H Oil MO Combo (05-19-21)	22.000	25274011	1.710 PPM
20) H JP-4 (03-24-21)	8.000	172529634	NoCal PPM
21) H JP-5 (03-25-21)	8.000	150412700	NoCal PPM
22) H JP-8 (03-26-21)	8.000	199238220	NoCal PPM

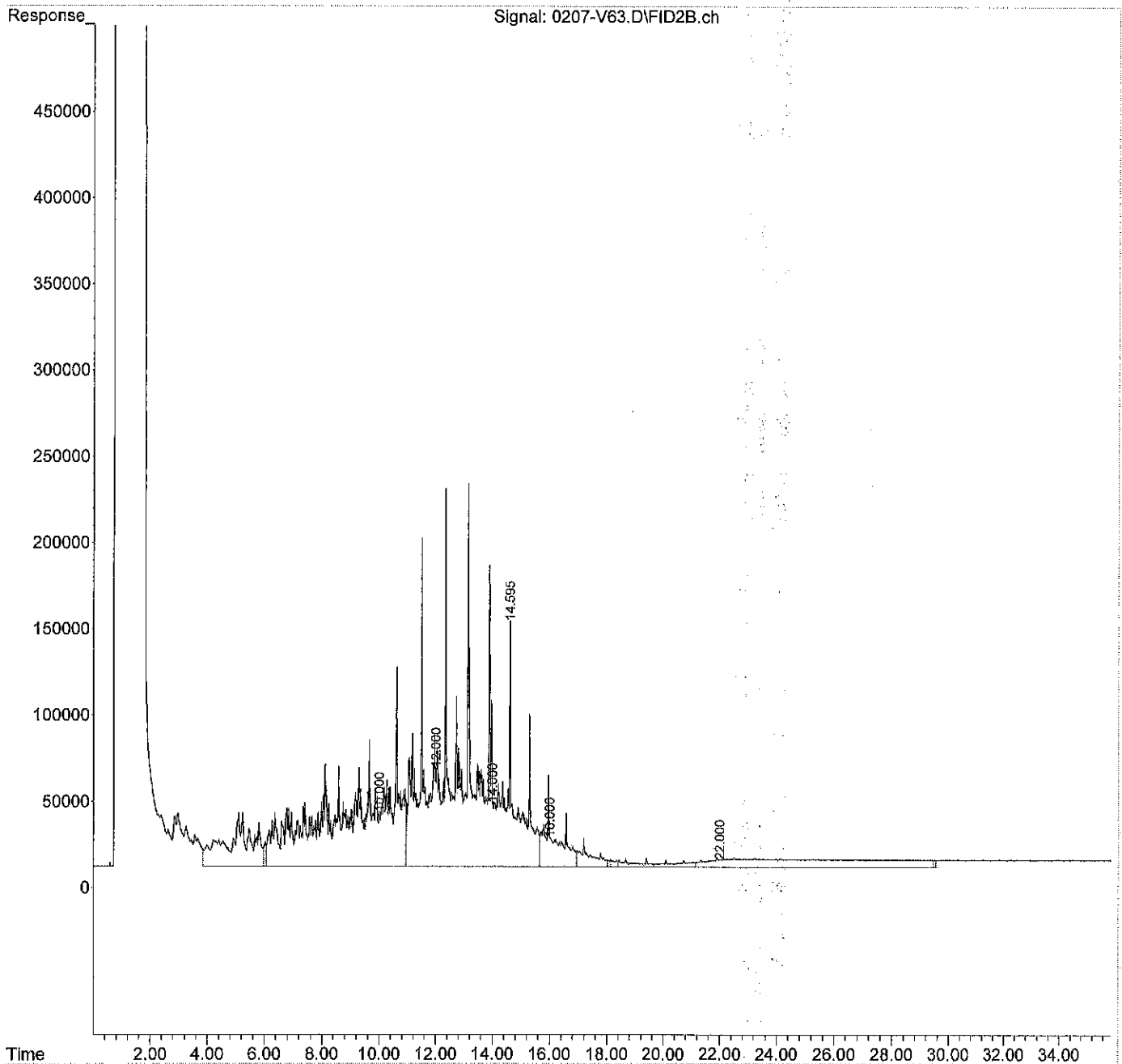
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220207.SEC\
Data File : 0207-V63.D
Signal(s) : FID2B.ch
Acq On : 7 Feb 2022 18:29
Operator : LIMS import
Sample : CCV0207R-V3
Misc : RearSamp
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 07 19:06:01 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220209.SEC\
 Data File : 0209-T71.D
 Signal(s) : FID2B.CH
 Acq On : 09 Feb 2022 23:52
 Operator : JP
 Sample : CCV0209R-T4
 Misc : RearSamp
 ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 00:27:50 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:22:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (02-01-22)	14.711	1896784	0.549 PPM
Spiked Amount	50.000	Recovery =	1.10%
Target Compounds			
2) H Gasoline	4.000	32071981	NoCal PPM
3) H Diesel Fuel #1	10.000	242278204	NoCal PPM
4) H Diesel Fuel #2 (2-01-22)	14.000	245976906	100.856 PPM
5) H Oil (02-01-22)	22.000	105170577	48.954 PPM
6) H Oil Acid Clean (02-08...	22.000	105170577	40.946 PPM
7) H Diesel Fuel #2 Combo ...	14.000	239806977	101.185 PPM
8) H Oil Combo (02-01-22)	22.000	90702589	41.595 PPM
9) H Oil Acid Clean Combo ...	22.000	90702589	34.409 PPM
10) H Oil MO Combo (02-01-22)	22.000	85274122	39.672 PPM
11) H Oil Acid Clean MO Com...	22.000	85274122	32.731 PPM
12) H HAWAII 8015M DF2 (02-...	14.000	244598589	101.298 PPM
13) H HAWAII 8015M Oil (02-...	22.000	83881060	39.890 PPM
14) H Mineral Oil (02-08-22)	16.000	163049239	60.959 PPM
15) H Mineral Oil Combo (02...	16.000	157062460	61.595 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	245976906	95.926 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	239806977	96.310 PPM

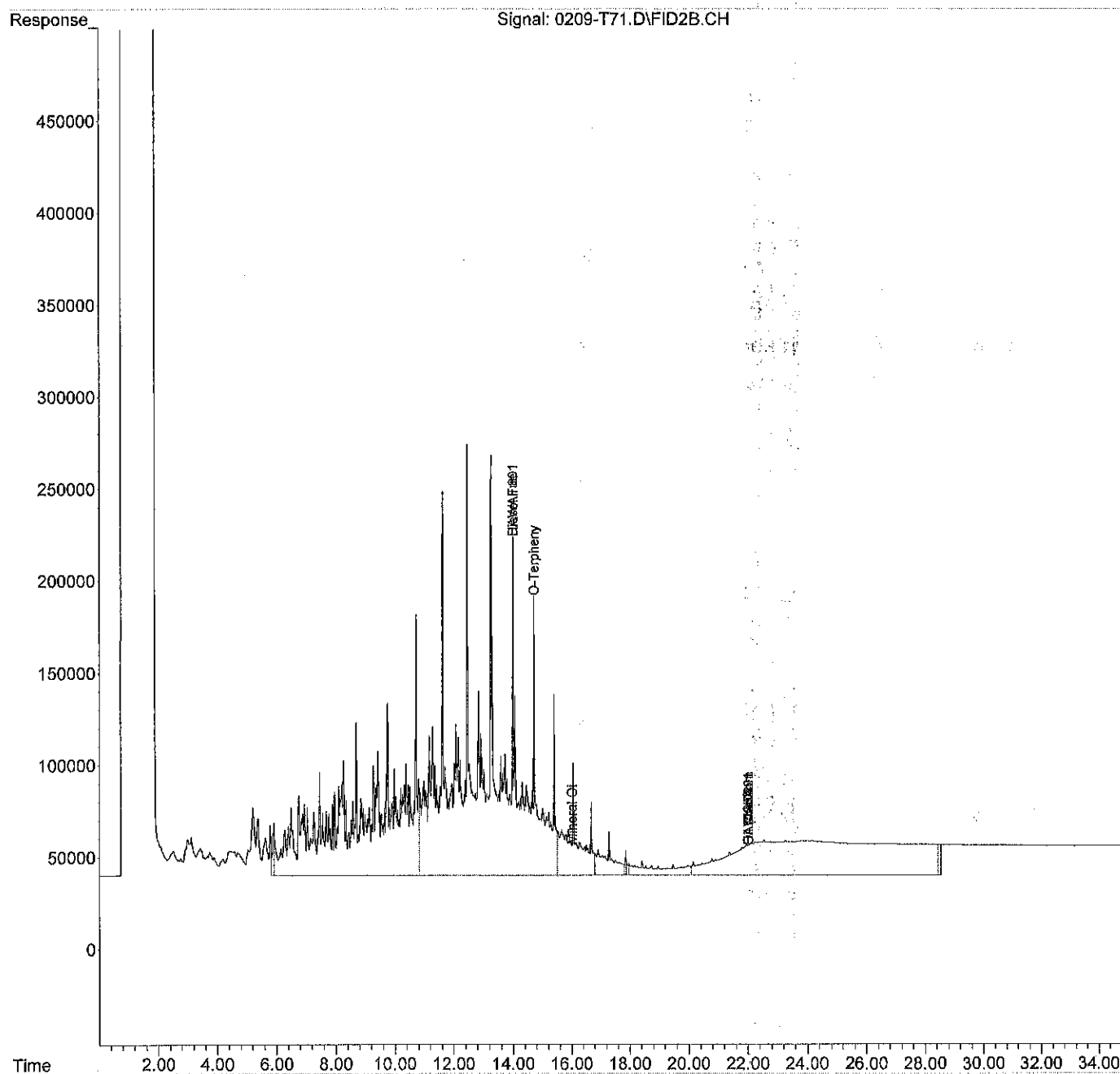
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220209.SEC\
Data File : 0209-T71.D
Signal(s) : FID2B.CH
Acq On : 09 Feb 2022 23:52
Operator : JP
Sample : CCV0209R-T4
Misc : RearSamp
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 00:27:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:22:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220209.SEC\
 Data File : 0209-T81.D
 Signal(s) : FID2B.CH
 Acq On : 10 Feb 2022 6:53
 Operator : JP
 Sample : CCV0209R-T5
 Misc : RearSamp
 ALS Vial : 81 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 07:28:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:22:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (02-01-22)	14.710	2186615	0.651 PPM
Spiked Amount 50.000		Recovery =	1.30%
Target Compounds			
2) H Gasoline	4.000	34467642	NoCal PPM
3) H Diesel Fuel #1	10.000	267833336	NoCal PPM
4) H Diesel Fuel #2 (2-01-22)	14.000	273384279	112.296 PPM
5) H Oil (02-01-22)	22.000	134428222	65.482 PPM
6) H Oil Acid Clean (02-08...	22.000	134428222	56.068 PPM
7) H Diesel Fuel #2 Combo ...	14.000	266149121	112.486 PPM
8) H Oil Combo (02-01-22)	22.000	117909275	57.205 PPM
9) H Oil Acid Clean Combo ...	22.000	117909275	48.668 PPM
10) H Oil MO Combo (02-01-22)	22.000	111559367	55.172 PPM
11) H Oil Acid Clean MO Com...	22.000	111559367	46.859 PPM
12) H HAWAII 8015M DF2 (02-...	14.000	271838660	112.766 PPM
13) H HAWAII 8015M Oil (02-...	22.000	109897697	55.270 PPM
14) H Mineral Oil (02-08-22)	16.000	184485740	69.136 PPM
15) H Mineral Oil Combo (02...	16.000	176003537	69.098 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	273384279	106.882 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	266149121	107.132 PPM

(f)=RT Delta > 1/2 Window

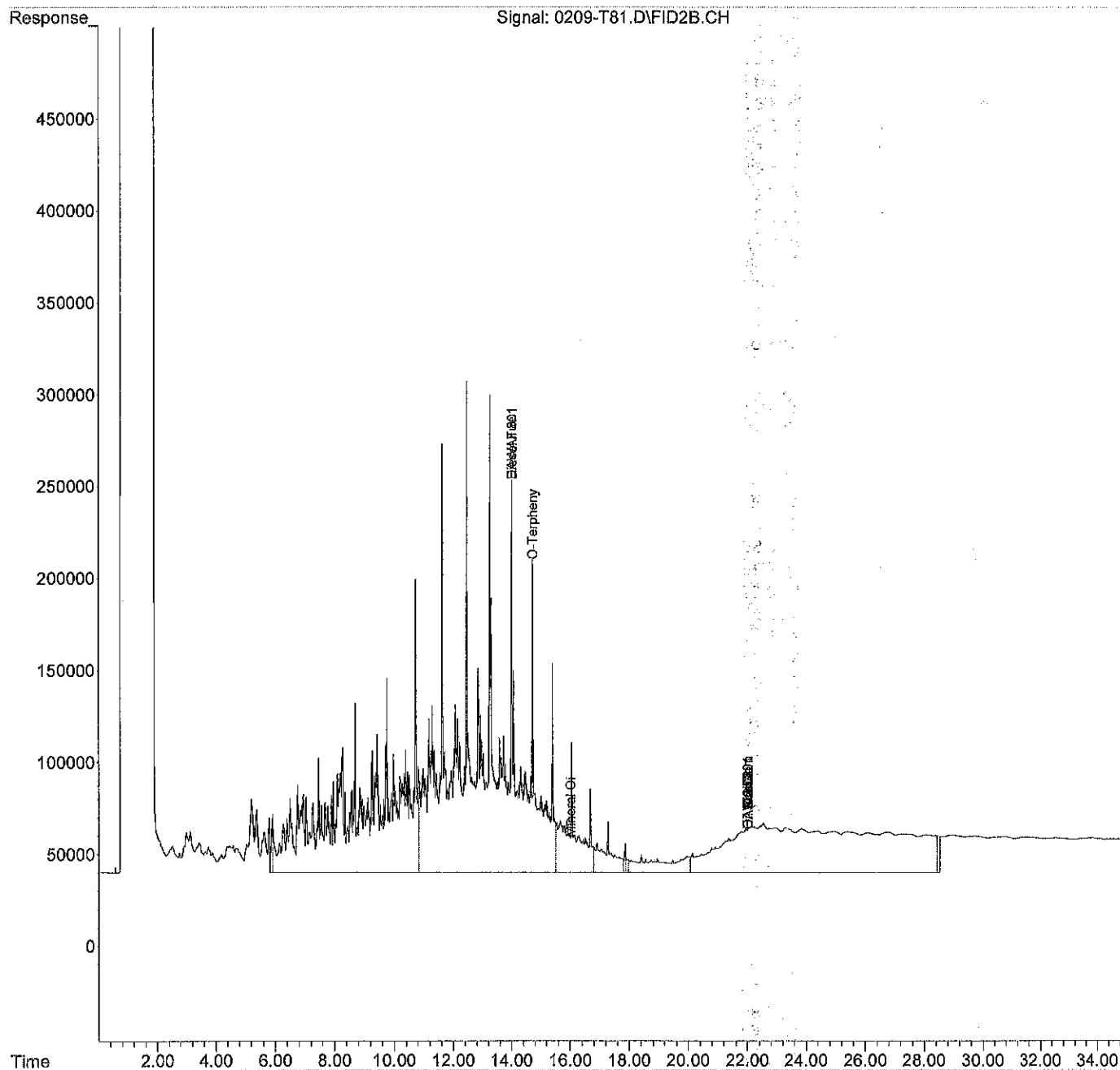
(m)=manual int.

11.0
 13.4
 26.1
 11.6
 57.2
 41.6
 5.1
 5.1
 11.2
 11.2
 11.2

Data Path : X:\DIESELS\Teri\Data\T220209.SEC\
Data File : 0209-T81.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2022 6:53
Operator : JP
Sample : CCV0209R-T5
Misc : RearSamp
ALS Vial : 81 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 07:28:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:22:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V52.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 8:38
 Operator : JP
 Sample : CCV0210R-V1
 Misc : RearSamp
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 09:15:27 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	35457141	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	208465967	46.929	PPM
5) H Diesel Fuel #2 (05-1...	14.000	207300622	93.992	PPM
6) H Oil (05-19-21)	22.000	48728971	15.696	PPM
7) H Oil Acid Clean (05-21...	22.000	48728971	16.404	PPM
8) H Diesel Fuel #2 Combo ...	14.000	202886569	94.852	PPM
9) H Oil Combo (05-19-21)	22.000	37688127	9.223	PPM
10) H Oil Acid Clean Combo ...	22.000	37688127	10.481	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	206381293	94.397	PPM
12) H HAWAII 8015M Oil (05-...	22.000	33206547	7.050	PPM
13) H Mineral Oil (05-19-21)	16.000	137196840	58.473	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	207300622	81.813	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	202886569	82.844	PPM
16) H Hydraulic Oil (03-19...	14.000	146552486	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	132424589	59.236	PPM
18) H Oil Acid Clean MO Com...	22.000	32700725	8.354	PPM
19) H Oil MO Combo (05-19-21)	22.000	32700725	6.730	PPM
20) H JP-4 (03-24-21)	8.000	155255530	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	134856831	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	179280720	NoCal	PPM

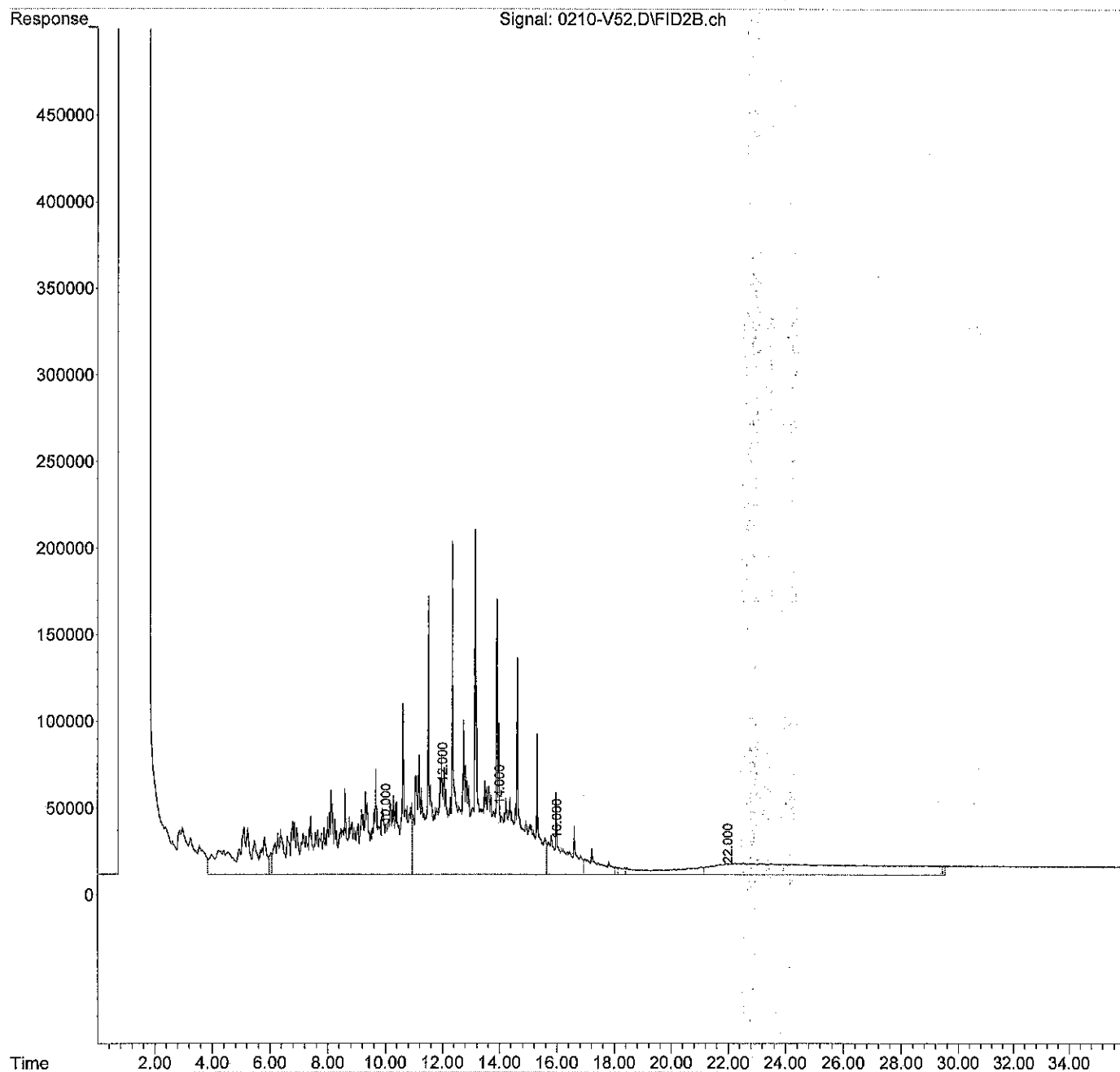
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V52.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 8:38
Operator : JP
Sample : CCV0210R-V1
Misc : RearSamp
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 09:15:27 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V56.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 11:59
 Operator : JP
 Sample : CCV0210R-V2
 Misc : RearSamp
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 15:32:57 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Thu Jul 29 10:20:16 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount 50.000		Recovery =	0.00%	
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	36502430	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	209221405	47.113	PPM
5) H Diesel Fuel #2 (05-1...	14.000	206986848	93.843	PPM
6) H Oil (05-19-21)	22.000	36354065	7.814	PPM
7) H Oil Acid Clean (05-21...	22.000	36354065	9.041	PPM
8) H Diesel Fuel #2 Combo ...	14.000	203011226	94.913	PPM
9) H Oil Combo (05-19-21)	22.000	25641035	1.431	PPM
10) H Oil Acid Clean Combo ...	22.000	25641035	3.207	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	206104676	94.265	PPM
12) H HAWAII 8015M Oil (05...	22.000	21626988	N.D.	PPM
13) H Mineral Oil (05-19-21)	16.000	134421569	57.258	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	206986848	81.684	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	203011226	82.897	PPM
16) H Hydraulic Oil (03-19...	14.000	141264180	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	131691008	58.907	PPM
18) H Oil Acid Clean MO Com...	22.000	21216044	1.105	PPM
19) H Oil MO Combo (05-19-21)	22.000	21216044	N.D.	PPM
20) H JP-4 (03-24-21)	8.000	157209615	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	135644428	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	180122994	NoCal	PPM

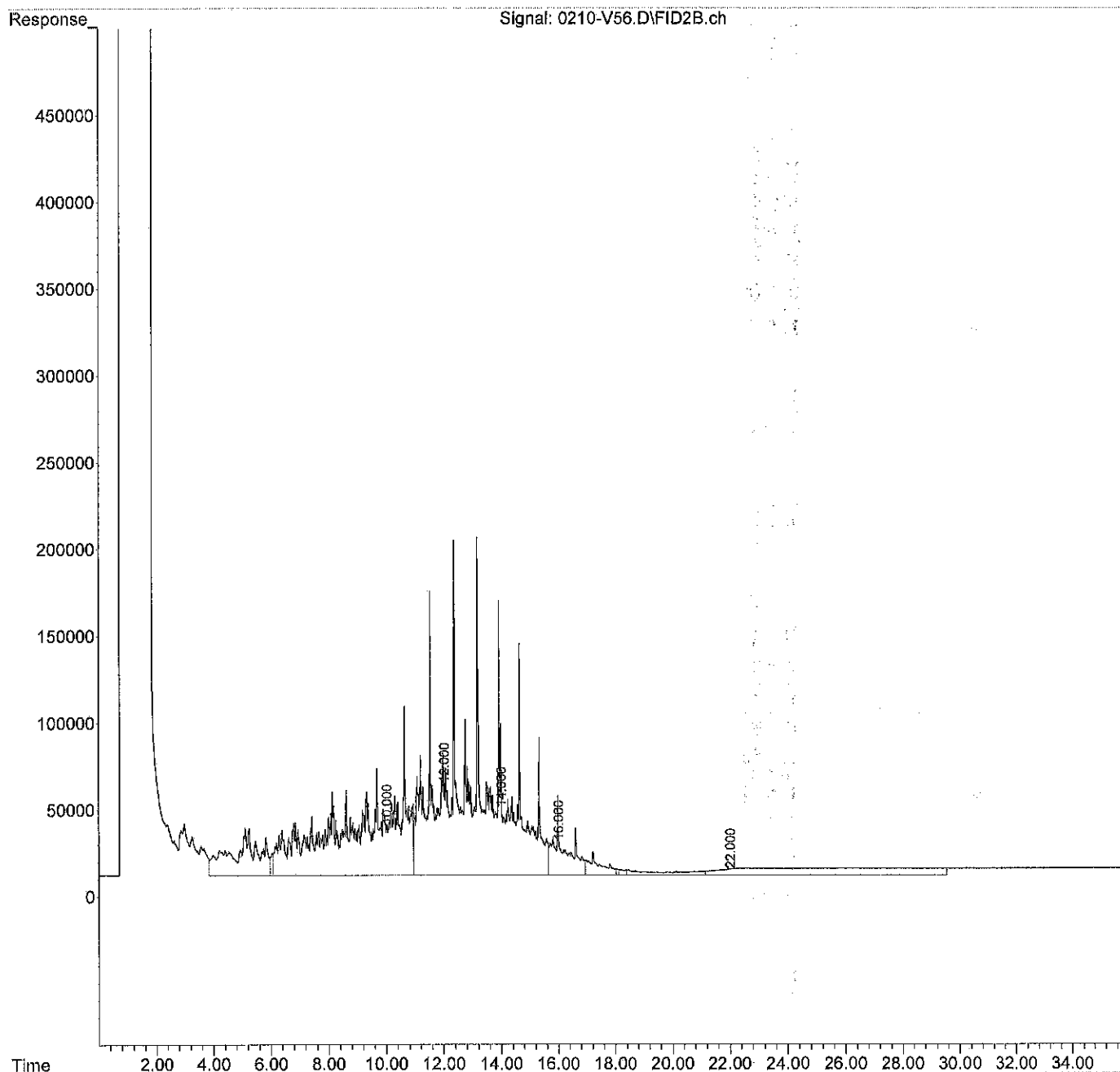
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V56.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 11:59
Operator : JP
Sample : CCV0210R-V2
Misc : RearSamp
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 15:32:57 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Thu Jul 29 10:20:16 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220210\
 Data File : 0210-T02.D
 Signal(s) : FID1A.CH
 Acq On : 10 Feb 2022 9:07
 Operator : JP
 Sample : CCV0210F-T1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 09:42:53 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201F.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:03:56 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (02-01-22)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) H Gasoline	4.000	27686118	NoCal	PPM
3) H Diesel Fuel #1	10.000	211132776	NoCal	PPM
4) H Diesel Fuel #2 (02-01-22)	14.000	215264125	103.008	PPM
5) H Oil (02-01-22)	22.000	111527073	57.195	PPM
6) H Oil Acid Clean (02-08-22)	22.000	111527073	51.501	PPM
7) H Diesel Fuel #2 Combo (02-01-22)	14.000	209497831	103.213	PPM
8) H Oil Combo (02-01-22)	22.000	98502651	49.202	PPM
9) H Oil Acid Clean Combo (02-01-22)	22.000	98502651	44.914	PPM
10) H Oil MO Combo (02-01-22)	22.000	93454397	46.926	PPM
11) H Oil Acid Clean MO Combo (02-01-22)	22.000	93454397	43.217	PPM
12) H HAWAII 8015M DF2 (02-01-22)	14.000	213928475	103.806	PPM
13) H HAWAII 8015M Oil (02-01-22)	22.000	92218488	46.434	PPM
14) H Mineral Oil (02-08-22)	16.000	148516374	66.974	PPM
15) H Mineral Oil Combo (02-01-22)	16.000	139719433	65.836	PPM
16) H Diesel Fuel #2 ACU (02-01-22)	14.000	215264125	97.719	PPM
17) H Diesel Fuel #2 ACU Co (02-01-22)	14.000	209497831	98.025	PPM

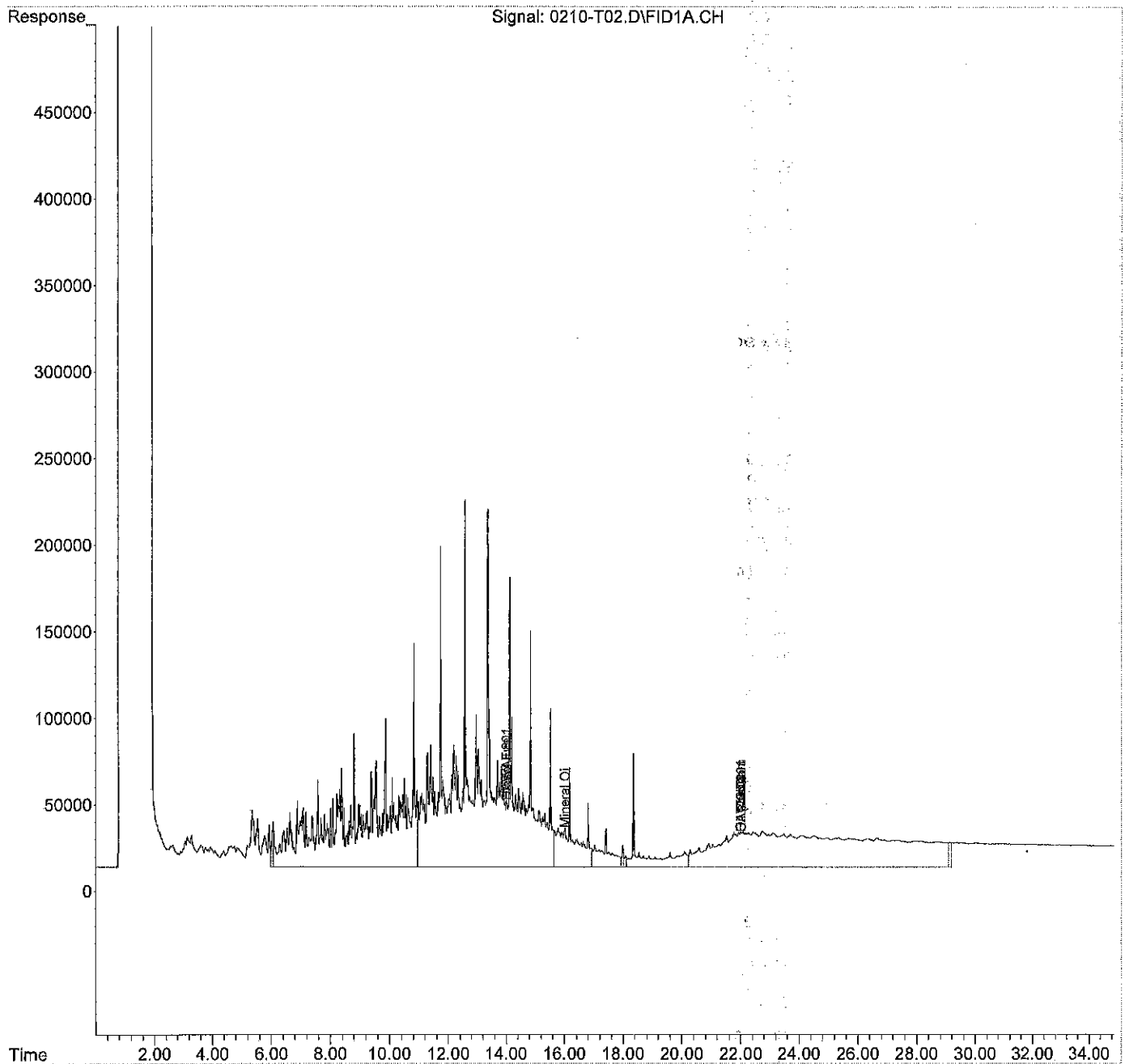
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220210\
Data File : 0210-T02.D
Signal(s) : FID1A.CH
Acq On : 10 Feb 2022 9:07
Operator : JP
Sample : CCV0210F-T1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 09:42:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201F.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:03:56 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220210\
 Data File : 0210-T08.D
 Signal(s) : FID1A.CH
 Acq On : 10 Feb 2022 15:09
 Operator : JP
 Sample : CCV0210F-T2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 15:44:54 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201F.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:03:56 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (02-01-22)	14.830	1793662	0.697	PPM
Spiked Amount	50.000	Recovery =	1.39%	
Target Compounds				
2) H Gasoline	4.000	33447224	NoCal	PPM
3) H Diesel Fuel #1	10.000	218310936	NoCal	PPM
4) H Diesel Fuel #2 (02-01-22)	14.000	221581717	106.036	PPM
5) H Oil (02-01-22)	22.000	66473121	27.968	PPM
6) H Oil Acid Clean (02-08-22)	22.000	66473121	26.120	PPM
7) H Diesel Fuel #2 Combo ...	14.000	215838371	106.344	PPM
8) H Oil Combo (02-01-22)	22.000	52756299	19.056	PPM
9) H Oil Acid Clean Combo ...	22.000	52756299	18.552	PPM
10) H Oil MO Combo (02-01-22)	22.000	47706856	15.935	PPM
11) H Oil Acid Clean MO Com...	22.000	47706856	16.316	PPM
12) H HAWAII 8015M DF2 (02-01-22)	14.000	220321379	106.910	PPM
13) H HAWAII 8015M Oil (02-01-22)	22.000	46848827	15.396	PPM
14) H Mineral Oil (02-08-22)	16.000	147916389	66.701	PPM
15) H Mineral Oil Combo (02-01-22)	16.000	142876297	67.324	PPM
16) H Diesel Fuel #2 ACU (02-01-22)	14.000	221581717	100.623	PPM
17) H Diesel Fuel #2 ACU Co...	14.000	215838371	101.019	PPM

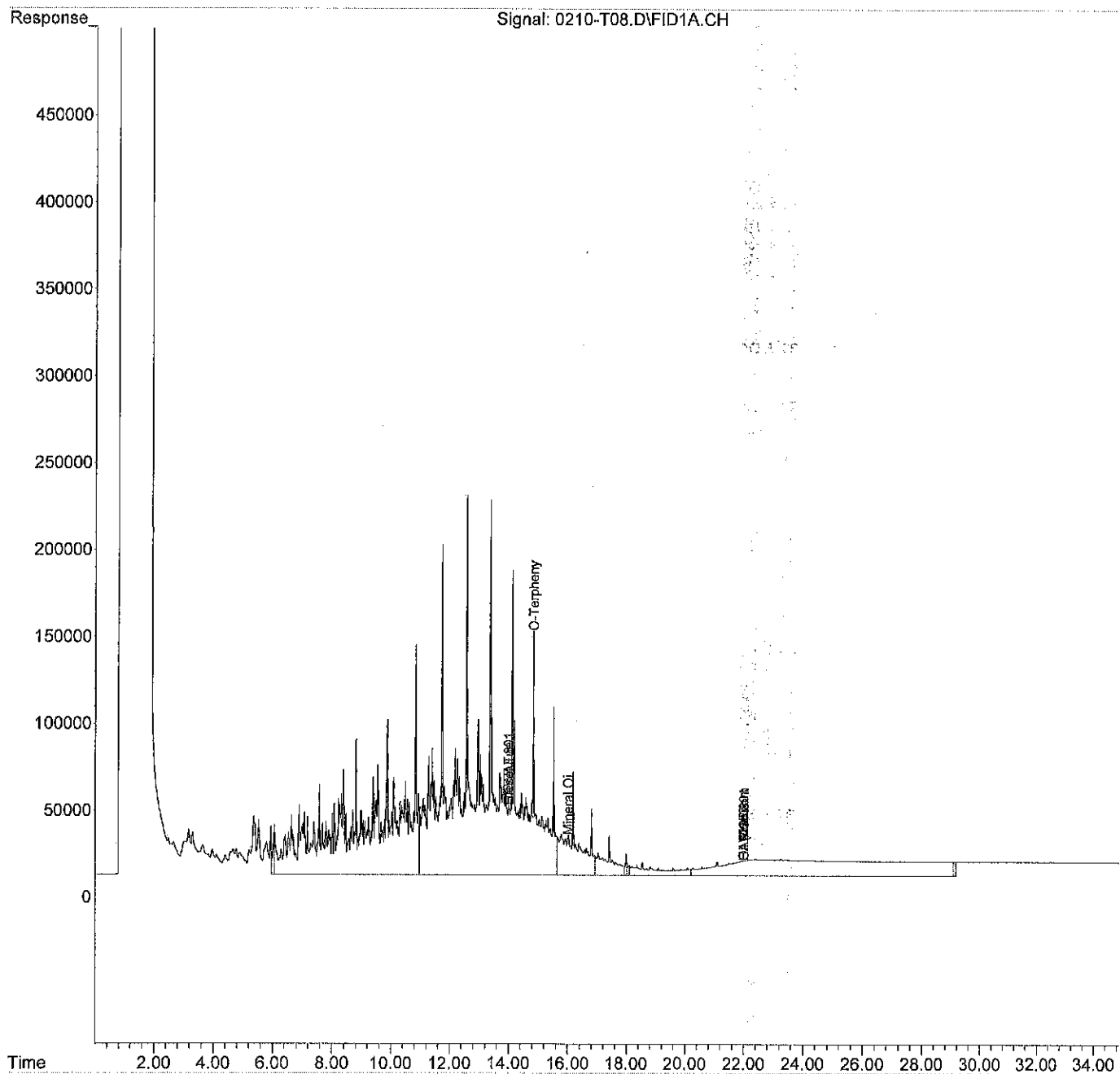
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220210\
Data File : 0210-T08.D
Signal(s) : FID1A.CH
Acq On : 10 Feb 2022 15:09
Operator : JP
Sample : CCV0210F-T2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 15:44:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201F.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:03:56 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220210.SEC\
 Data File : 0210-T52.D
 Signal(s) : FID2B.CH
 Acq On : 10 Feb 2022 9:07
 Operator : JP
 Sample : CCV0210R-T1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 09:43:16 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:22:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (02-01-22)	14.712	1826280	0.524 PPM
Spiked Amount 50.000		Recovery =	1.05%
Target Compounds			
2) H Gasoline	4.000	32320166	NoCal PPM
3) H Diesel Fuel #1	10.000	247371729	NoCal PPM
4) H Diesel Fuel #2 (2-01-22)	14.000	252124992	103.422 PPM
5) H Oil (02-01-22)	22.000	128733362	62.265 PPM
6) H Oil Acid Clean (02-08...	22.000	128733362	53.125 PPM
7) H Diesel Fuel #2 Combo ...	14.000	245332289	103.556 PPM
8) H Oil Combo (02-01-22)	22.000	113692099	54.785 PPM
9) H Oil Acid Clean Combo ...	22.000	113692099	46.458 PPM
10) H Oil MO Combo (02-01-22)	22.000	107826886	52.971 PPM
11) H Oil Acid Clean MO Com...	22.000	107826886	44.853 PPM
12) H HAWAII 8015M DF2 (02-...	14.000	250642687	103.842 PPM
13) H HAWAII 8015M Oil (02-...	22.000	106270403	53.126 PPM
14) H Mineral Oil (02-08-22)	16.000	169953973	63.593 PPM
15) H Mineral Oil Combo (02...	16.000	161676705	63.423 PPM
16) H Diesel Fuel #2 ACU (0...	14.000	252124992	98.384 PPM
17) H Diesel Fuel #2 ACU Co...	14.000	245332289	98.580 PPM

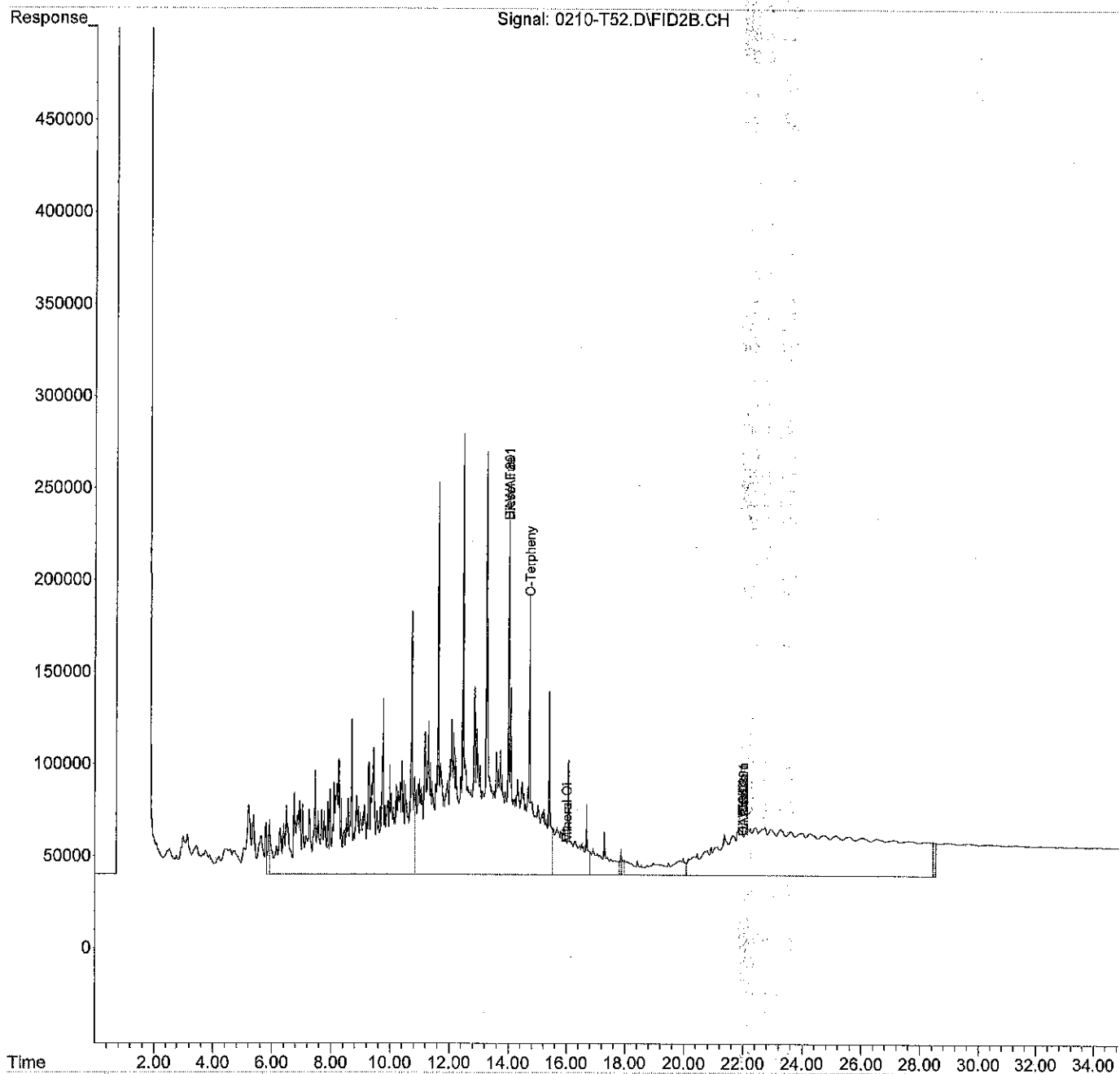
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220210.SEC\
Data File : 0210-T52.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2022 9:07
Operator : JP
Sample : CCV0210R-T1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 09:43:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:22:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Teri\Data\T220210.SEC\
 Data File : 0210-T59.D
 Signal(s) : FID2B.CH
 Acq On : 10 Feb 2022 15:52
 Operator : JP
 Sample : CCV0210R-T3
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Feb 10 16:27:34 2022
 Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
 Quant Title : GCTPH
 QLast Update : Wed Feb 09 09:22:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (02-01-22)	14.712	2070501	0.610	PPM
Spiked Amount	50.000	Recovery =	1.22%	
Target Compounds				
2) H Gasoline	4.000	33230579	NoCal	PPM
3) H Diesel Fuel #1	10.000	259855749	NoCal	PPM
4) H Diesel Fuel #2 (2-01-22)	14.000	267117867	109.680	PPM
5) H Oil (02-01-22)	22.000	117043382	55.661	PPM
6) H Oil Acid Clean (02-08...	22.000	117043382	47.083	PPM
7) H Diesel Fuel #2 Combo ...	14.000	259617012	109.684	PPM
8) H Oil Combo (02-01-22)	22.000	99913381	46.880	PPM
9) H Oil Acid Clean Combo ...	22.000	99913381	39.236	PPM
10) H Oil MO Combo (02-01-22)	22.000	93304293	44.407	PPM
11) H Oil Acid Clean MO Com...	22.000	93304293	37.047	PPM
12) H HAWAII 8015M DF2 (02-...	14.000	265724279	110.192	PPM
13) H HAWAII 8015M Oil (02-...	22.000	91758513	44.547	PPM
14) H Mineral Oil (02-08-22)	16.000	181628665	68.046	PPM
15) H Mineral Oil Combo (02...	16.000	173908896	68.268	PPM
16) H Diesel Fuel #2 ACU (0...	14.000	267117867	104.377	PPM
17) H Diesel Fuel #2 ACU Co...	14.000	259617012	104.448	PPM

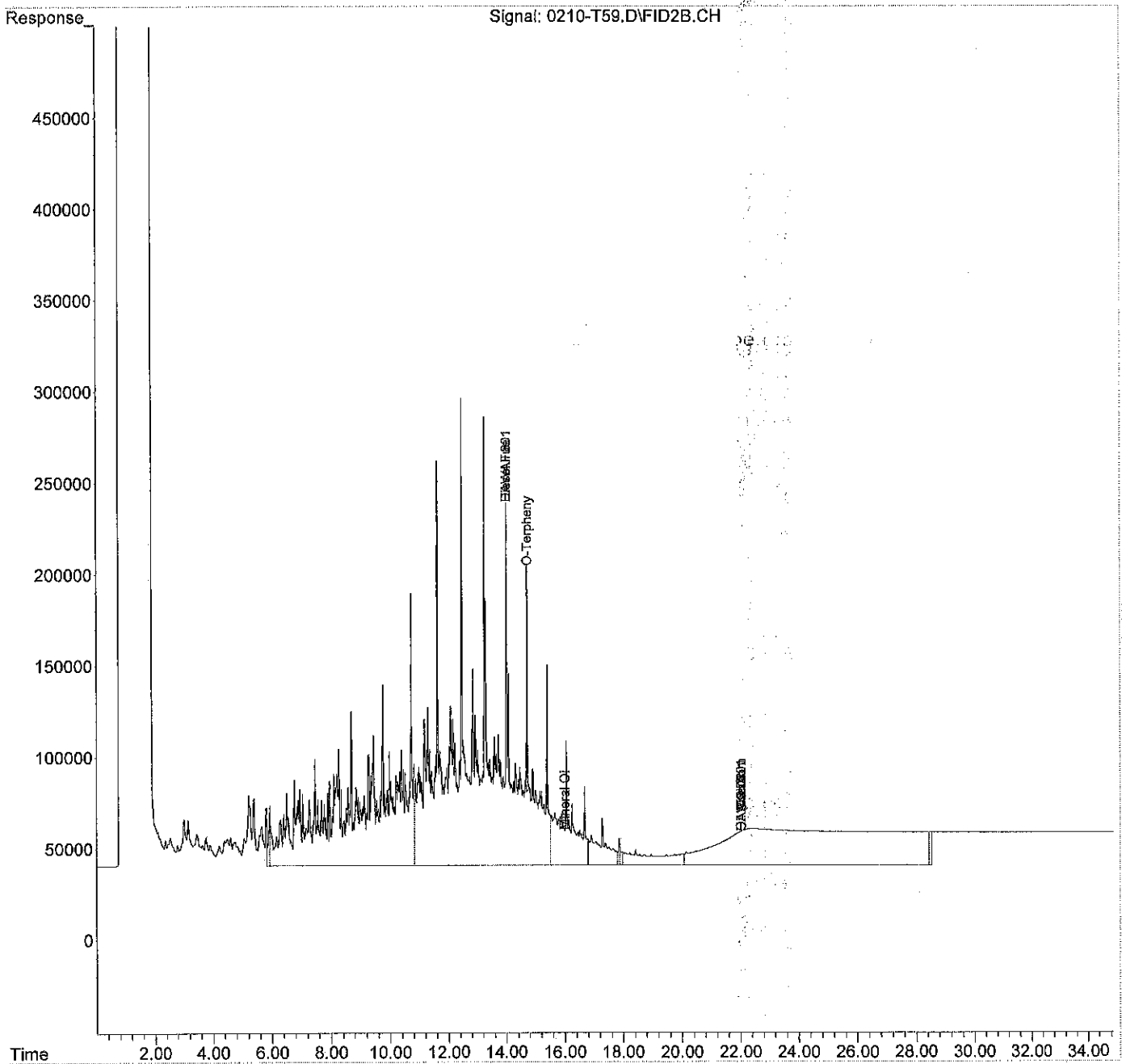
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Teri\Data\T220210.SEC\
Data File : 0210-T59.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2022 15:52
Operator : JP
Sample : CCV0210R-T3
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 10 16:27:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\T220201R.M
Quant Title : GCTPH
QLast Update : Wed Feb 09 09:22:36 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Volatiles Organics
EPA 8260D Data

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201009.d
 Acq On : 1 Feb 2022 5:06 pm
 Operator :
 Sample : 02-007-01h
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

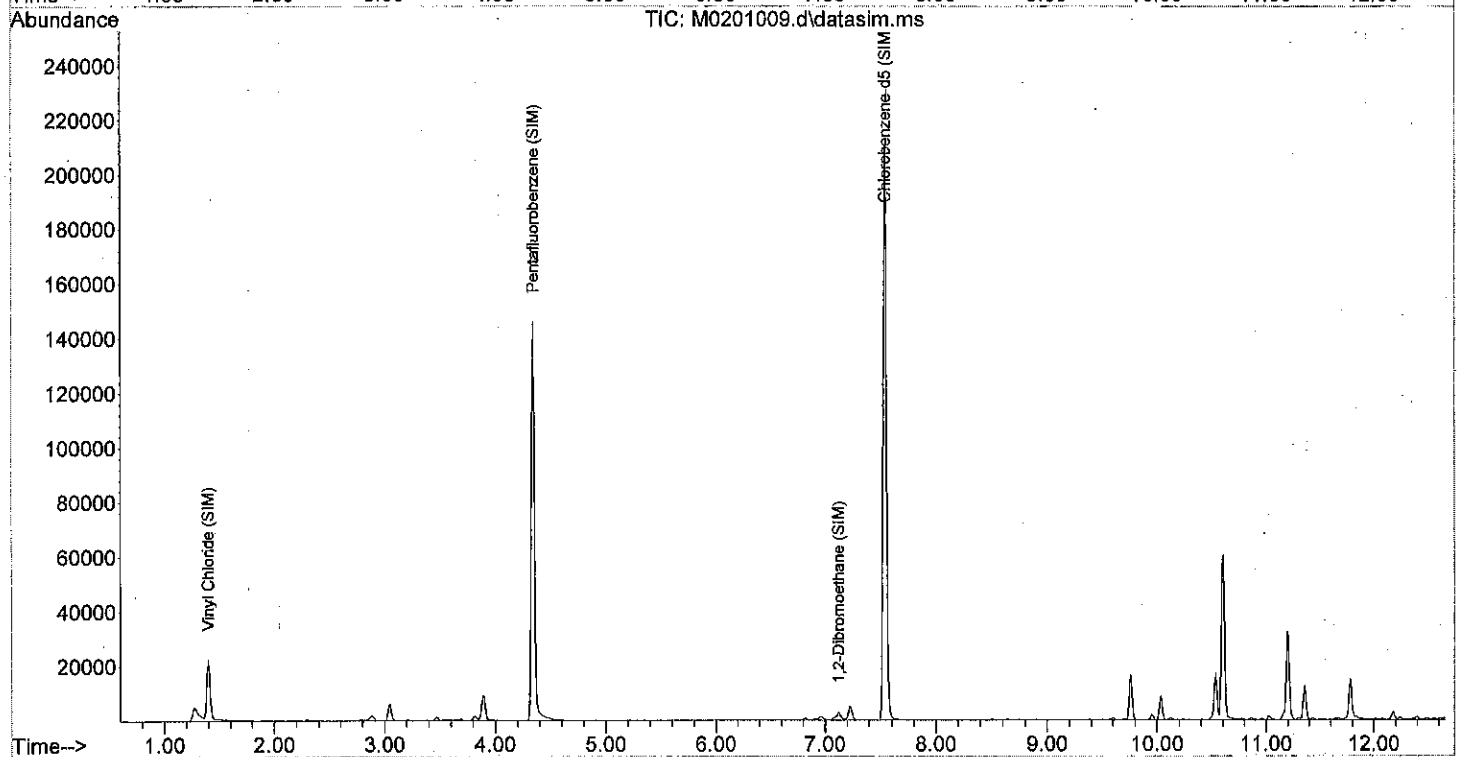
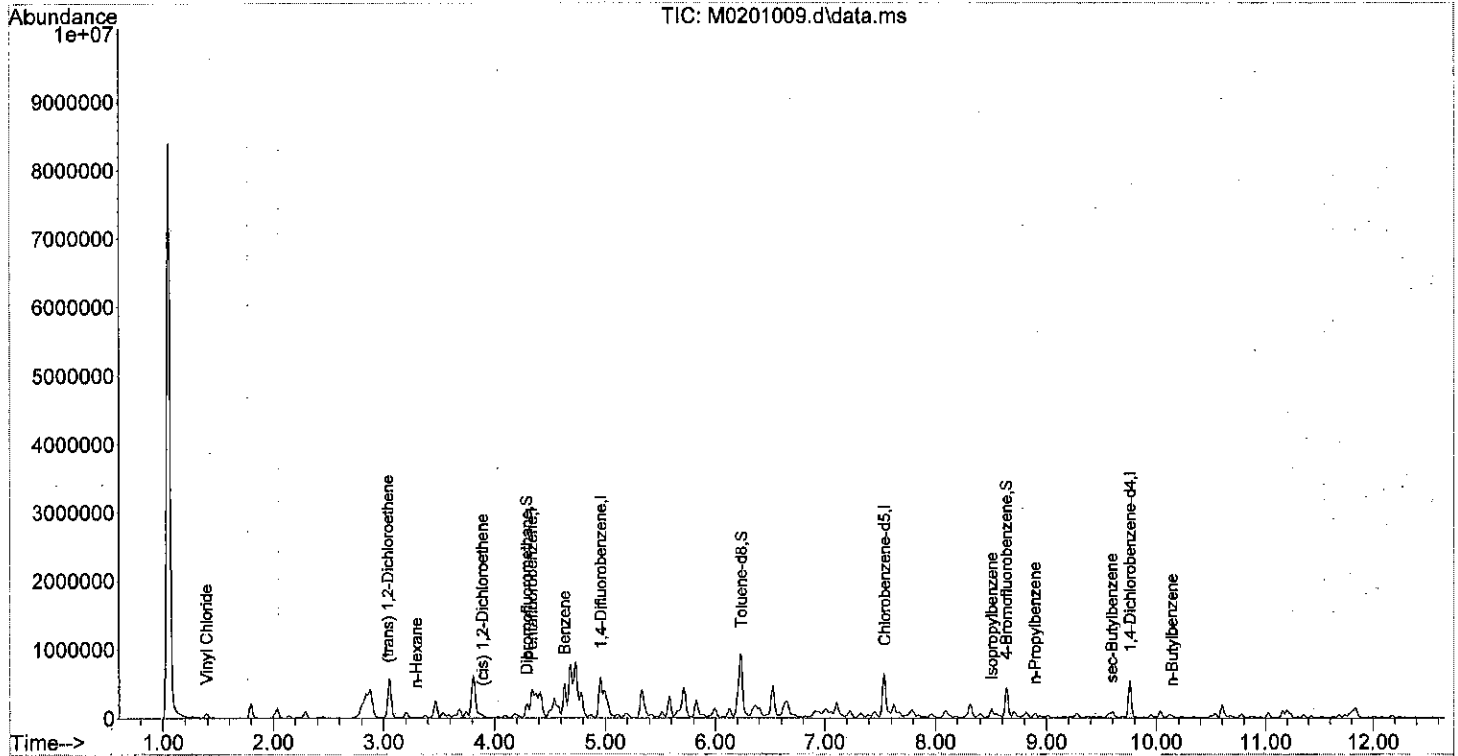
Quant Time: Feb 02 10:03:01 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

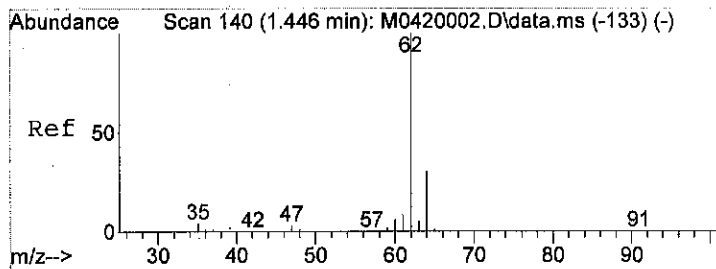
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.334	168	289595	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	299384	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	501758	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	410057	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	418397	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	166449	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	122765	10.05	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	100.50%
41) Toluene-d8	6.237	98	558599	10.05	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.50%
59) 4-Bromofluorobenzene	8.636	95	172771	9.42	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	94.20%
Target Compounds						
4) Vinyl Chloride	1.392	62	33150	1.99	ppb	# 86
14) (trans) 1,2-Dichloroet...	3.038	61	8901	0.33	ppb	# 81
16) n-Hexane	3.294	57	8198	0.36	ppb	# 63
20) (cis) 1,2-Dichloroethene	3.890	61	18806	0.56	ppb	95
28) Benzene	4.631	78	412208	6.26	ppb	99
31] Vinyl Chloride (SIM)	1.398	62	33220	1815.95	ppt	# 78
58) Isopropylbenzene	8.504	105	91328	1.21	ppb	99
61] 1,2-Dibromoethane (SIM)	7.119	107	349	35.27	ppt	# 1
67) n-Propylbenzene	8.893	91	47363	0.57	ppb	99
73) sec-Butylbenzene	9.594	105	46645	0.71	ppb	# 66
78) n-Butylbenzene	10.139	91	12052	0.24	ppb	# 47

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201009.d
 Acq On : 1 Feb 2022 5:06 pm
 Operator :
 Sample : 02-007-01h
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

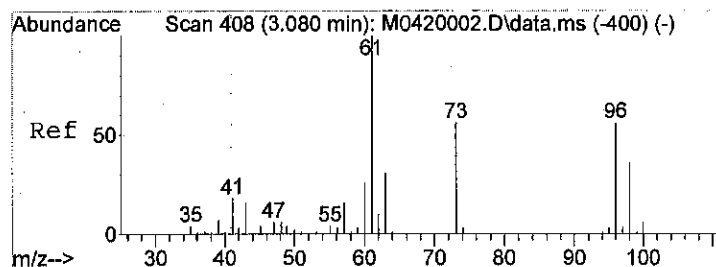
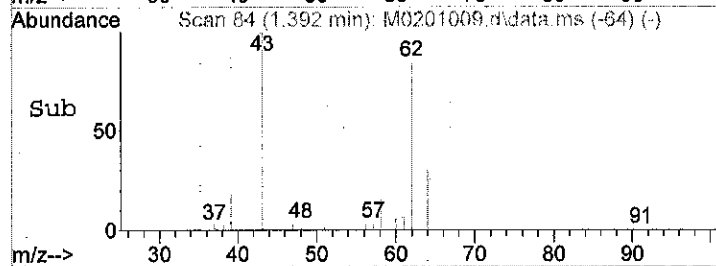
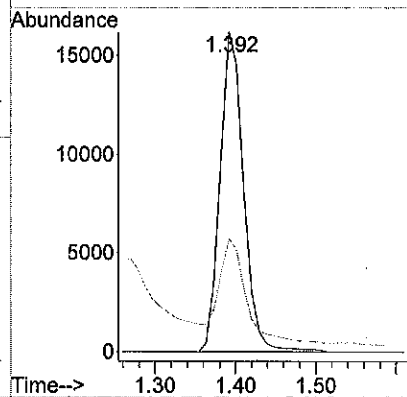
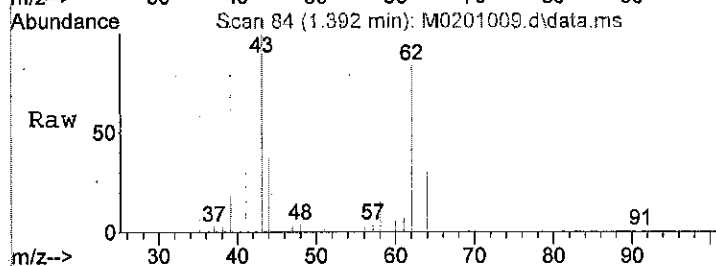
Quant Time: Feb 02 10:03:01 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration





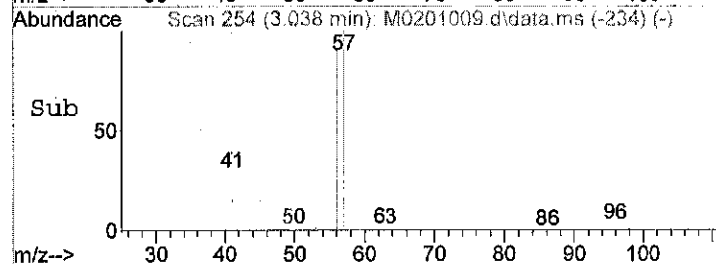
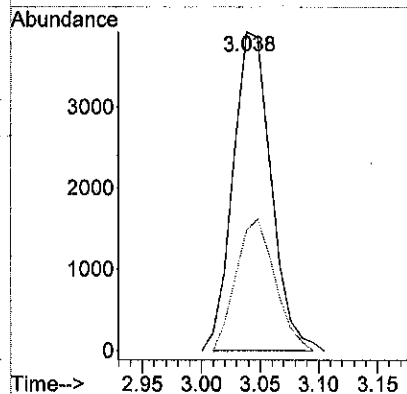
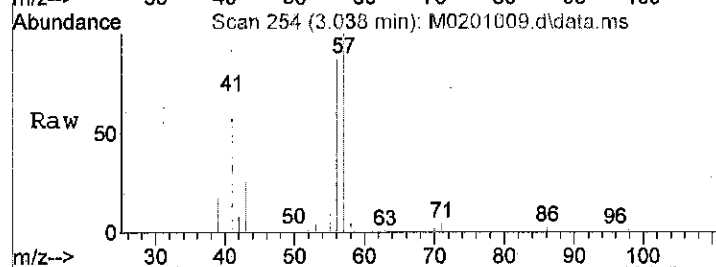
#4
 Vinyl Chloride
 Concen: 1.99 ppb
 RT: 1.392 min Scan# 84
 Delta R.T. -0.009 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

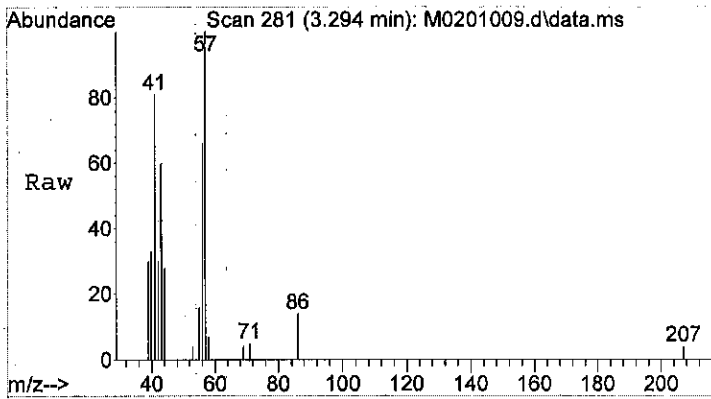
Tgt Ion: 62 Resp: 33150
 Ion Ratio Lower Upper
 62 100
 64 39.9 25.8 38.6#



#14
 (trans) 1,2-Dichloroethene
 Concen: 0.33 ppb
 RT: 3.038 min Scan# 254
 Delta R.T. -0.010 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

Tgt Ion: 61 Resp: 8901
 Ion Ratio Lower Upper
 61 100
 63 42.0 25.4 38.0#

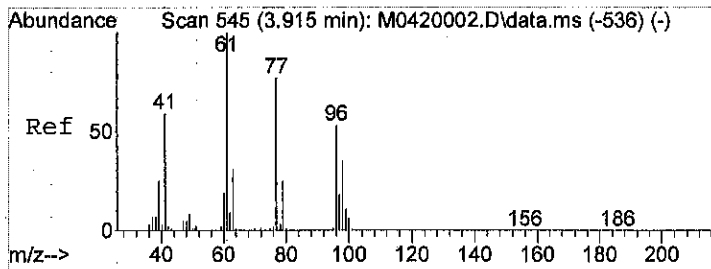
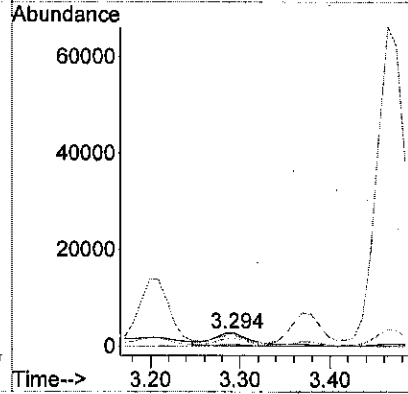
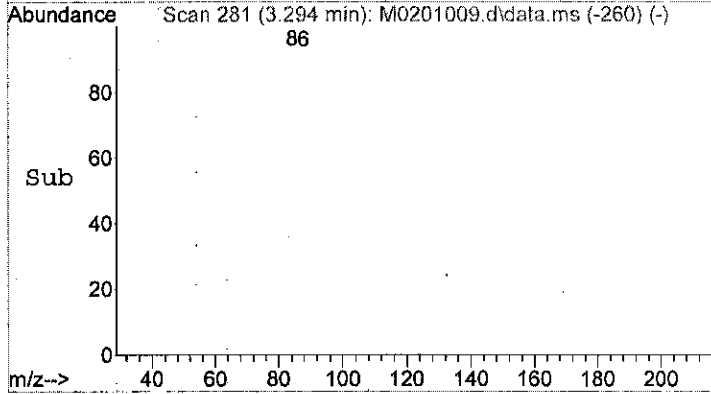




#16
 n-Hexane
 Concen: 0.36 ppb
 RT: 3.294 min Scan# 281
 Delta R.T. -0.000 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

Tgt Ion: 57 Resp: 8198

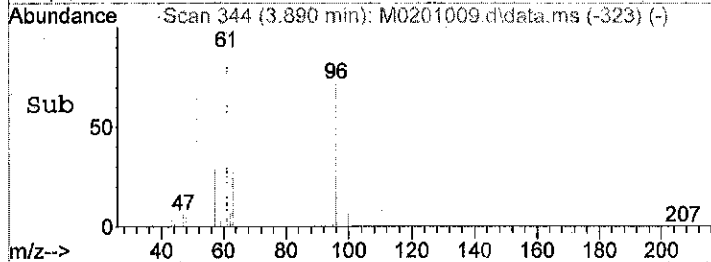
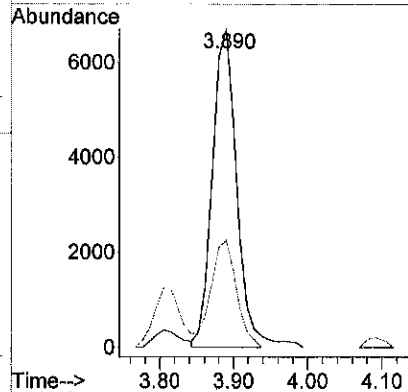
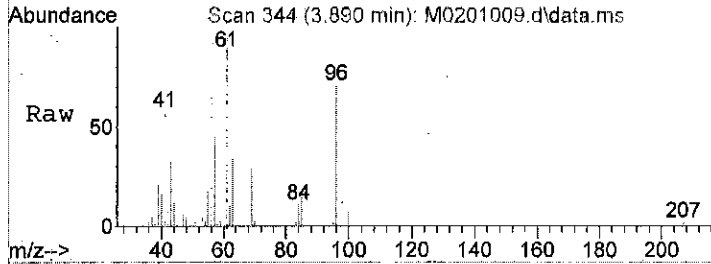
Ion	Ratio	Lower	Upper
57	100		
41	42.9	61.4	92.0#
43	34.8	52.2	78.2#
86	8.8	11.4	17.2#

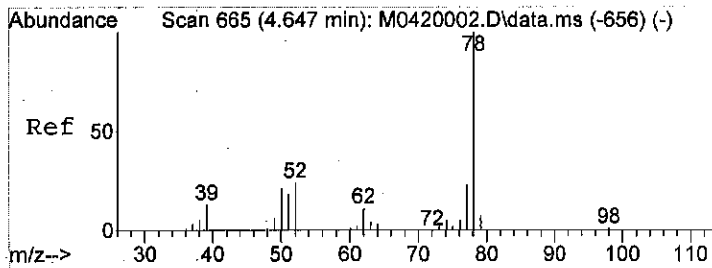


#20
 (cis) 1,2-Dichloroethene
 Concen: 0.56 ppb
 RT: 3.890 min Scan# 344
 Delta R.T. -0.000 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

Tgt Ion: 61 Resp: 18806

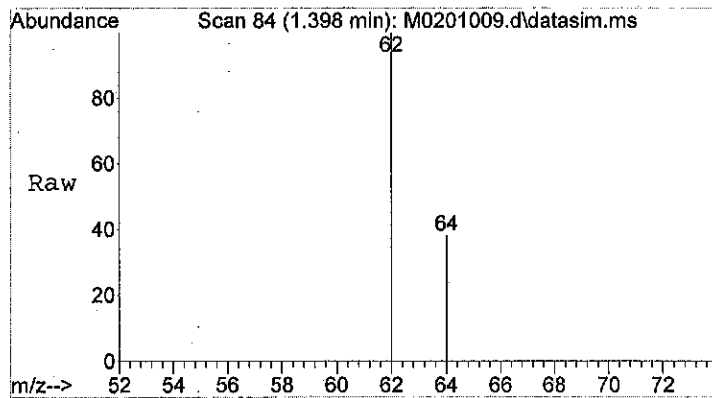
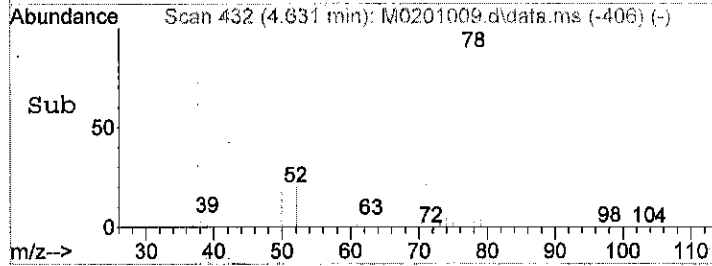
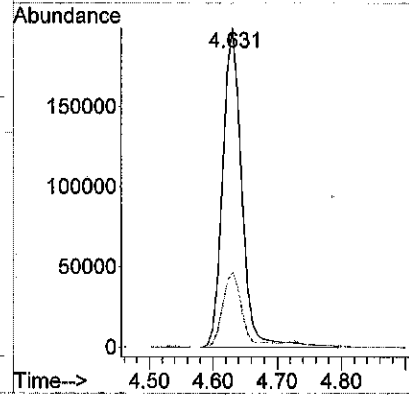
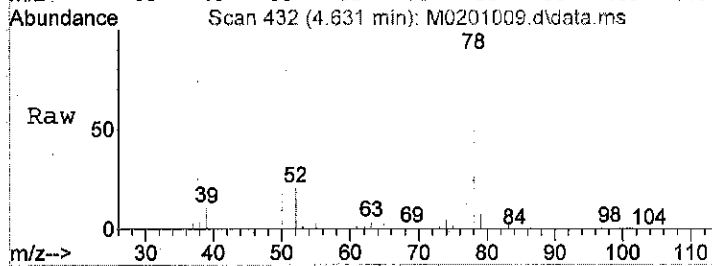
Ion	Ratio	Lower	Upper
61	100		
63	29.2	25.7	38.5





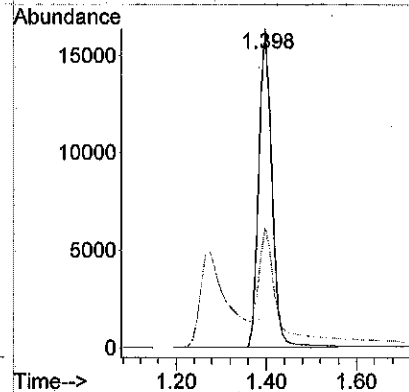
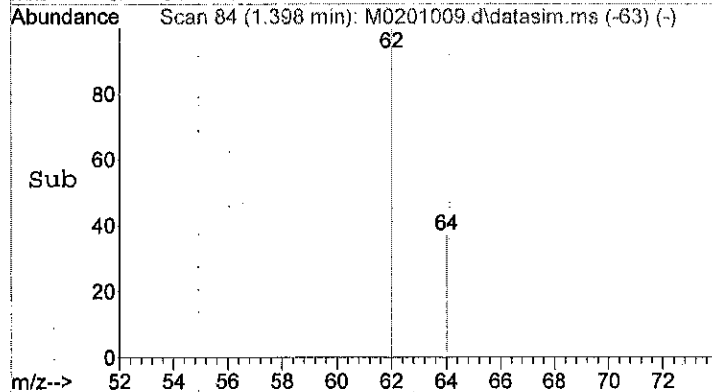
#28
Benzene
Concen: 6.26 ppb
RT: 4.631 min Scan# 432
Delta R.T. -0.000 min
Lab File: M0201009.d
Acq: 1 Feb 2022 5:06 pm

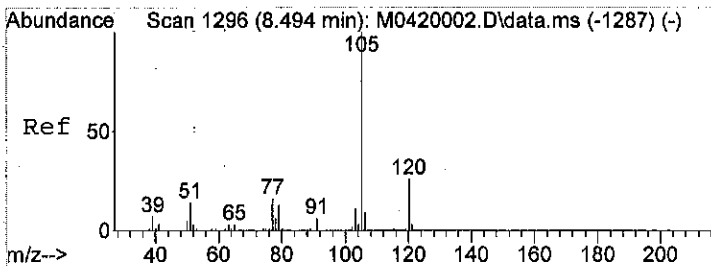
Tgt Ion: 78 Resp: 412208
Ion Ratio Lower Upper
78 100
77 24.0 18.9 28.3



#31
Vinyl Chloride (SIM)
Concen: 1815.95 ppt
RT: 1.398 min Scan# 84
Delta R.T. -0.000 min
Lab File: M0201009.d
Acq: 1 Feb 2022 5:06 pm

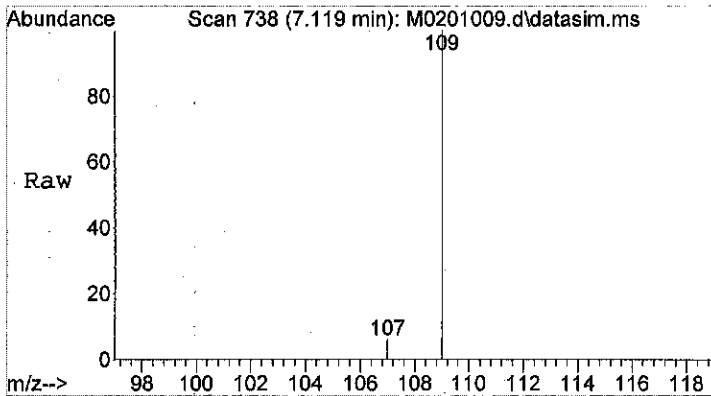
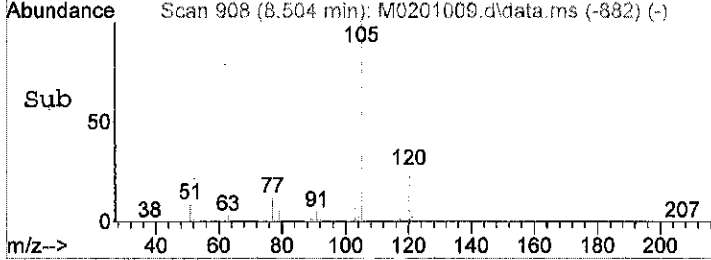
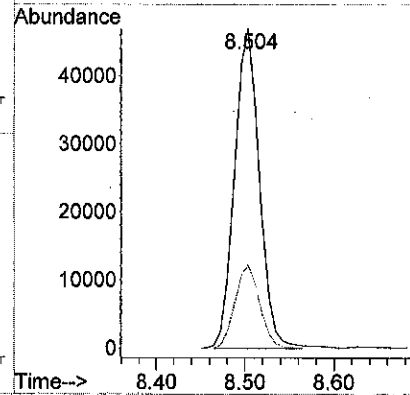
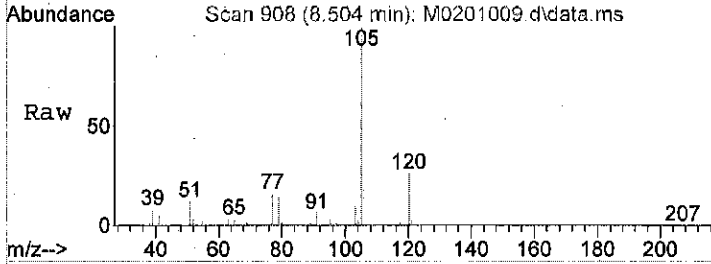
Tgt Ion: 62 Resp: 33220
Ion Ratio Lower Upper
62 100
64 44.5 25.7 38.5#





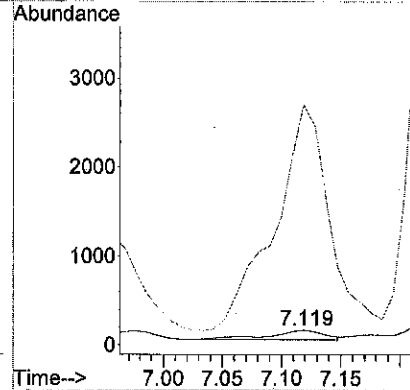
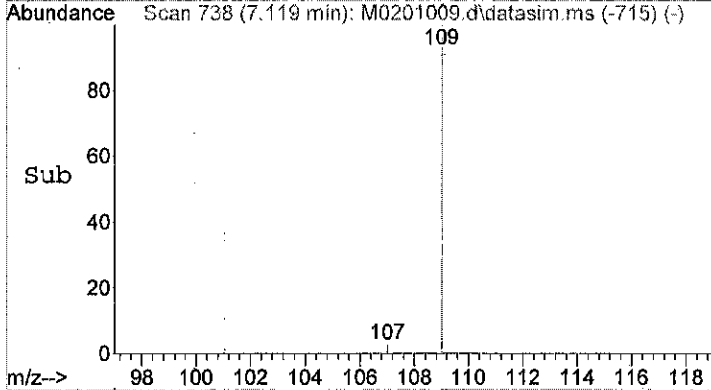
#58
 Isopropylbenzene
 Concen: 1.21 ppb
 RT: 8.504 min Scan# 908
 Delta R.T. -0.000 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

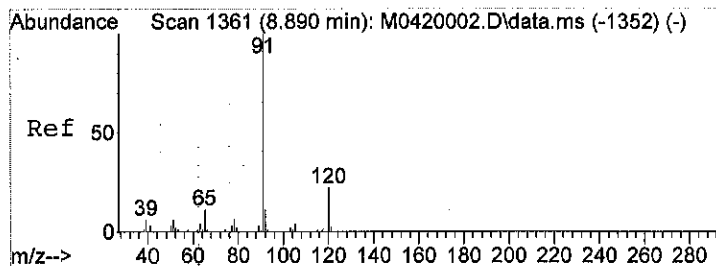
Tgt Ion: 105 Resp: 91328
 Ion Ratio Lower Upper
 105 100
 120 25.7 20.8 31.2



#61
 1,2-Dibromoethane (SIM)
 Concen: 35.27 ppt
 RT: 7.119 min Scan# 738
 Delta R.T. 0.019 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

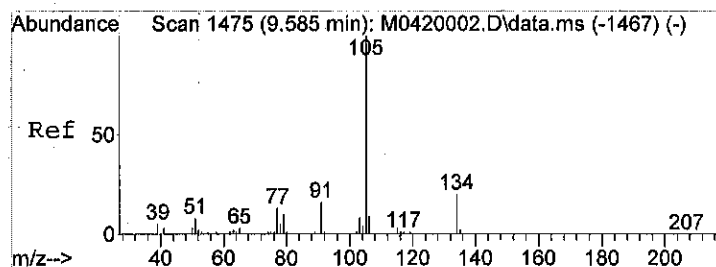
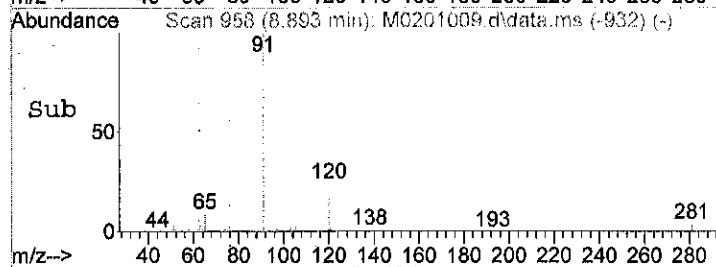
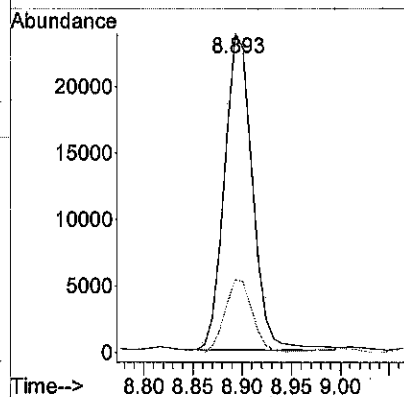
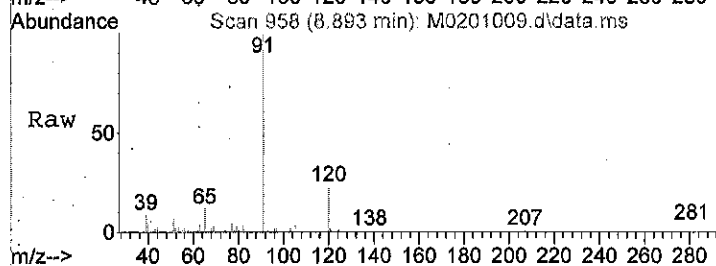
Tgt Ion: 107 Resp: 349
 Ion Ratio Lower Upper
 107 100
 109 2349.6 75.4 113.2#





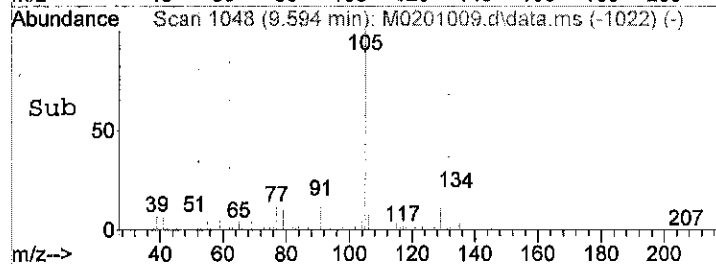
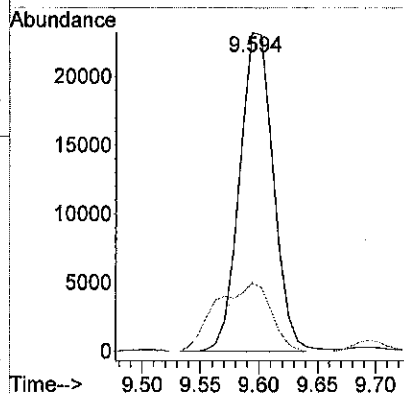
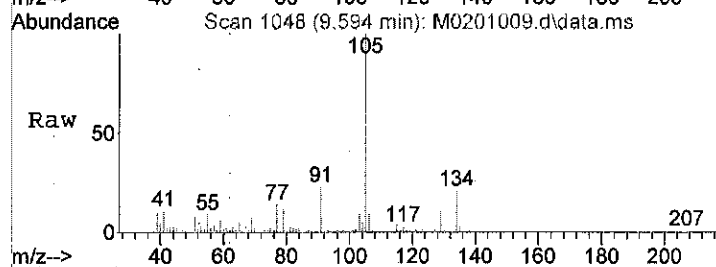
#67
 n-Propylbenzene
 Concen: 0.57 ppb
 RT: 8.893 min Scan# 958
 Delta R.T. 0.000 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

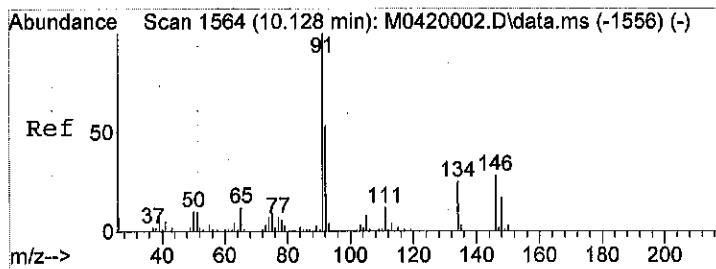
Tgt Ion	Resp	Lower	Upper
91	47363		
120	22.8	18.5	27.7



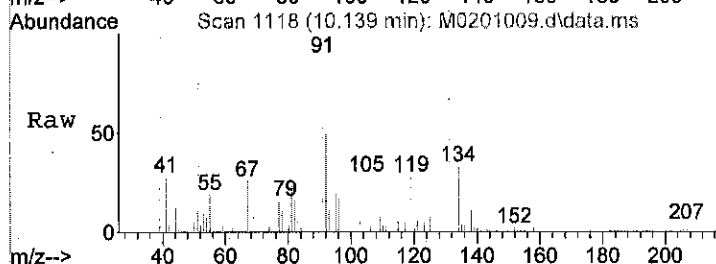
#73
 sec-Butylbenzene
 Concen: 0.71 ppb
 RT: 9.594 min Scan# 1048
 Delta R.T. 0.000 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm

Tgt Ion	Resp	Lower	Upper
105	46645		
134	34.9	15.4	23.2#

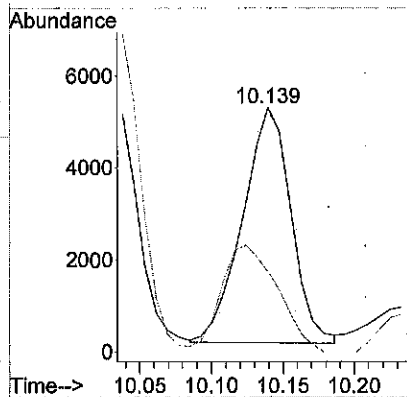
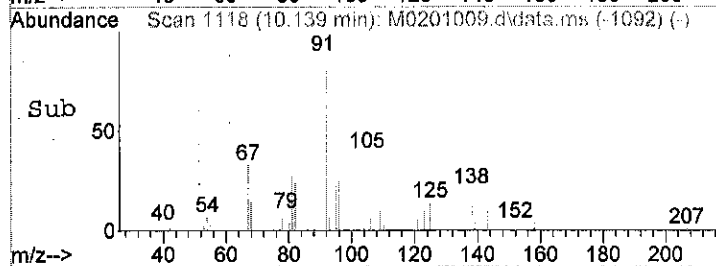




#78
 n-Butylbenzene
 Concen: 0.24 ppb
 RT: 10.139 min Scan# 1118
 Delta R.T. 0.000 min
 Lab File: M0201009.d
 Acq: 1 Feb 2022 5:06 pm



Tgt Ion: 91 Resp: 12052
 Ion Ratio Lower Upper
 91 100
 134 52.7 20.6 30.8#



Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201006.d
 Acq On : 1 Feb 2022 1:38 pm
 Operator :
 Sample : MB0201W1
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 01 14:02:48 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

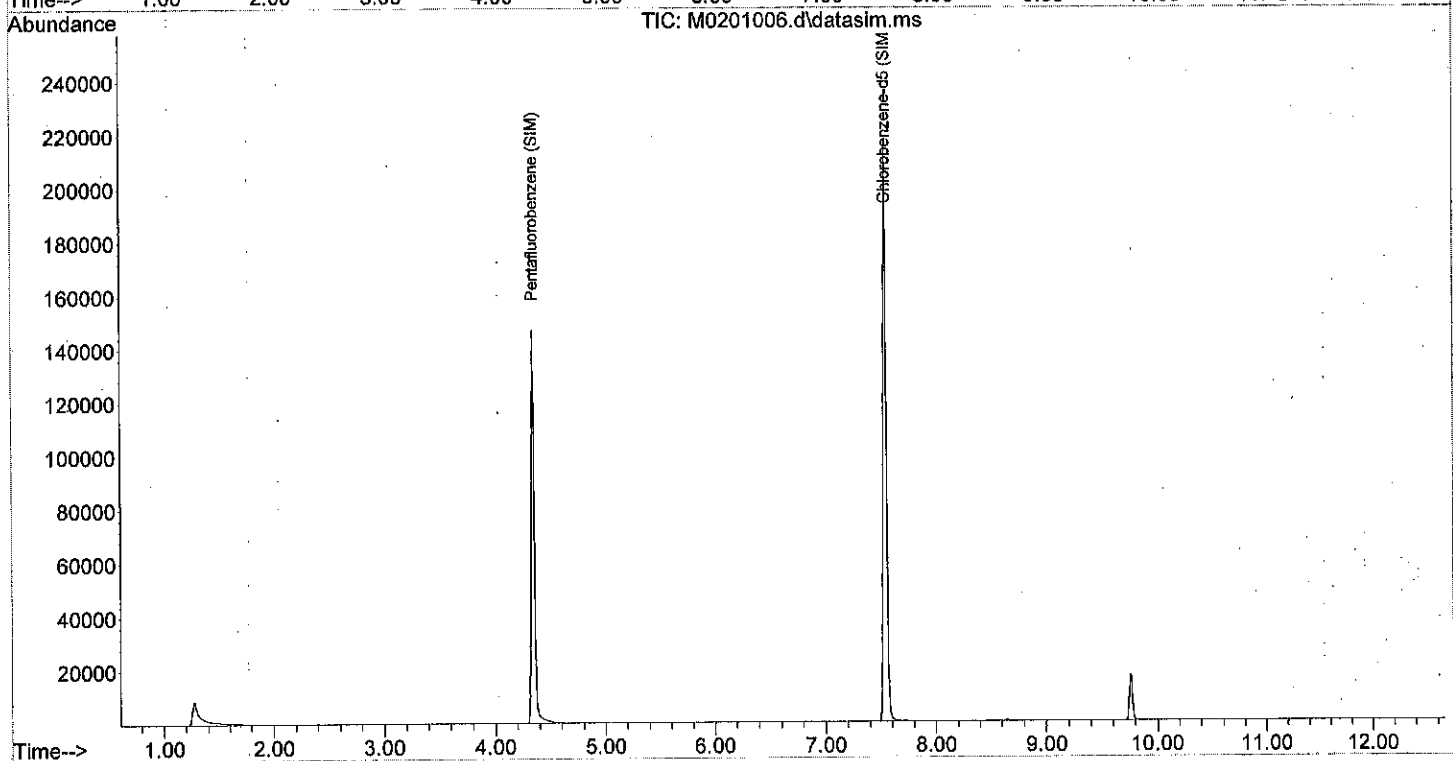
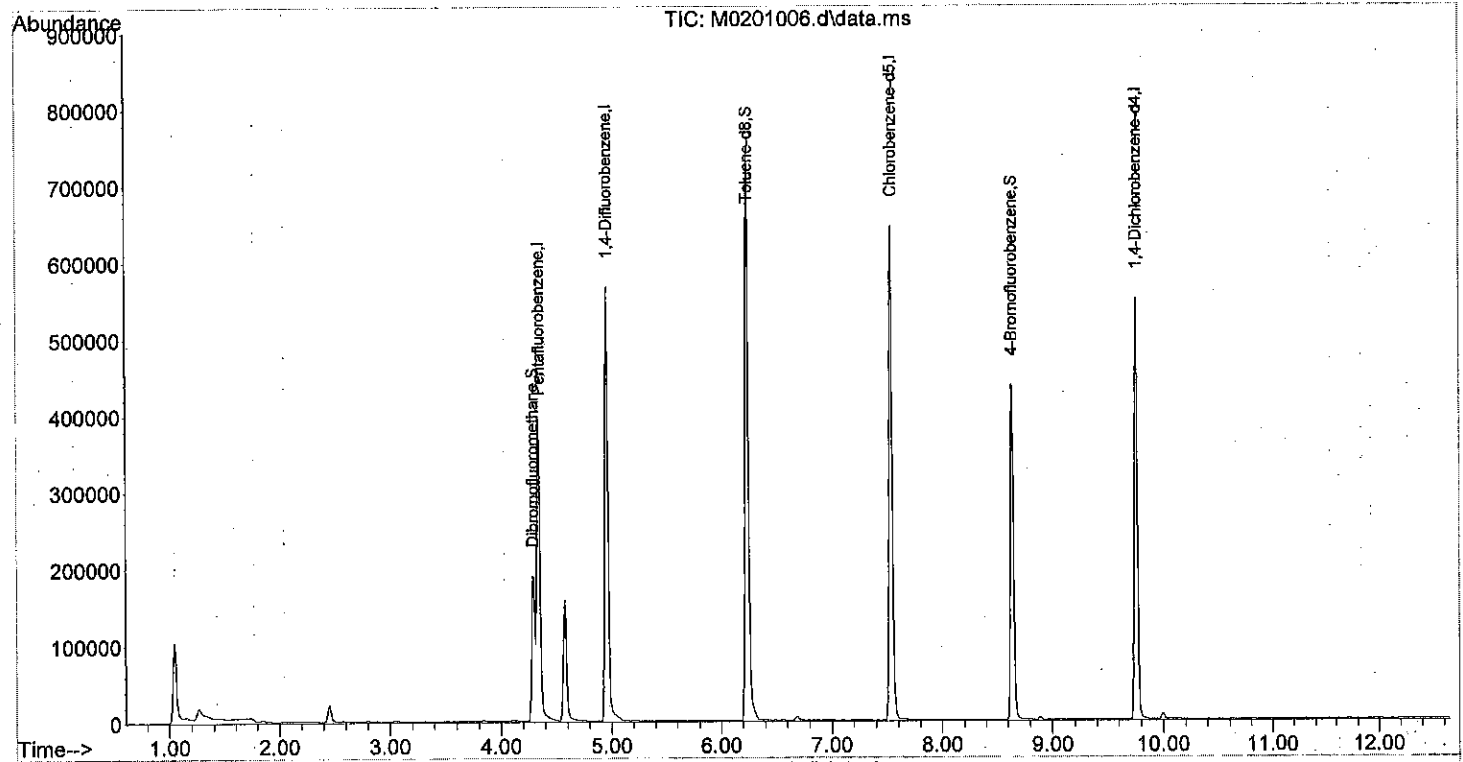
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.342	168	290662	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	300935	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	496669	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	424643	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	431218	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	171907	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	124873	10.19	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.90%
41) Toluene-d8	6.237	98	554567	10.08	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.80%
59) 4-Bromofluorobenzene	8.636	95	179838	9.47	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	94.70%
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201006.d
 Acq On : 1 Feb 2022 1:38 pm
 Operator :
 Sample : MB0201W1
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 01 14:02:48 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	296224	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	307351	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	510393	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	422540	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	434493	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	175715	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	126980	10.16	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.60%
41) Toluene-d8	6.237	98	562615	9.95	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.50%
59) 4-Bromofluorobenzene	8.636	95	178801	9.46	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	94.60%
Target Compounds						
2) Dichlorodifluoromethane	1.174	85	135218	11.30	ppb	Qvalue # 100
3) Chloromethane	1.316	50	172561	10.62	ppb	# 100
4) Vinyl Chloride	1.392	62	184567	10.85	ppb	93
5) Bromomethane	1.647	96	25286	4.87	ppb	96
6) Chloroethane	1.732	64	119740	10.70	ppb	100
7) Trichlorofluoromethane	1.950	101	314753	11.70	ppb	100
8) 1,1-Dichloroethene	2.385	61	345586	12.07	ppb	99
9) Acetone	2.433	43	21101	11.33	ppb	# 84
10) Iodomethane	2.518	142	32970	1.79	ppb	100
11) Carbon Disulfide	2.575	76	536220	10.45	ppb	100
12) Methylene Chloride	2.802	49	281459	11.08	ppb	99
13) Acrylonitrile	3.010	53	30657	10.88	ppb	# 95
14) (trans) 1,2-Dichloroet...	3.038	61	330842	11.89	ppb	99
15) Methyl t-Butyl Ether	3.048	73	352745	10.57	ppb	99
16) n-Hexane	3.294	57	256366	11.09	ppb	98
17) 1,1-Dichloroethane	3.398	63	384370	11.63	ppb	99
18) Vinyl Acetate	3.445	43	236616	9.66	ppb	98
19) 2,2-Dichloropropane	3.890	77	364110	12.94	ppb	98
20) (cis) 1,2-Dichloroethene	3.890	61	418137	12.21	ppb	100
21) 2-Butanone	3.899	43	39984	10.86	ppb	99
22) Bromochloromethane	4.085	130	118124	13.28	ppb	94
23) Chloroform	4.155	83	358338	12.13	ppb	99
24) 1,1,1-Trichloroethane	4.319	97	329061	11.53	ppb	93
26) Carbon Tetrachloride	4.459	117	303356	11.89	ppb	99
27) 1,1-Dichloropropene	4.459	75	284706	11.82	ppb	100
28) Benzene	4.631	78	795535	11.82	ppb	100
29) 1,2-Dichloroethane	4.638	62	214713	11.41	ppb	100
31] Vinyl Chloride (SIM)	1.398	62	189238	10076.43	ppt	92
32] 1,1-Dichloroethene (SIM)	2.391	61	353176	11891.44	ppt	100
34) Trichloroethene	5.176	130	220848	11.62	ppb	99
35) 1,2-Dichloropropane	5.363	63	207406	10.80	ppb	100
36) Dibromomethane	5.465	174	86839	11.12	ppb	98
37) Bromodichloromethane	5.597	83	252605	11.21	ppb	99
38) 2-Chloroethyl Vinyl Ether	5.870	63	6904	5.01	ppb	96
39) (cis) 1,3-Dichloropropene	5.995	75	294415	11.07	ppb	98

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

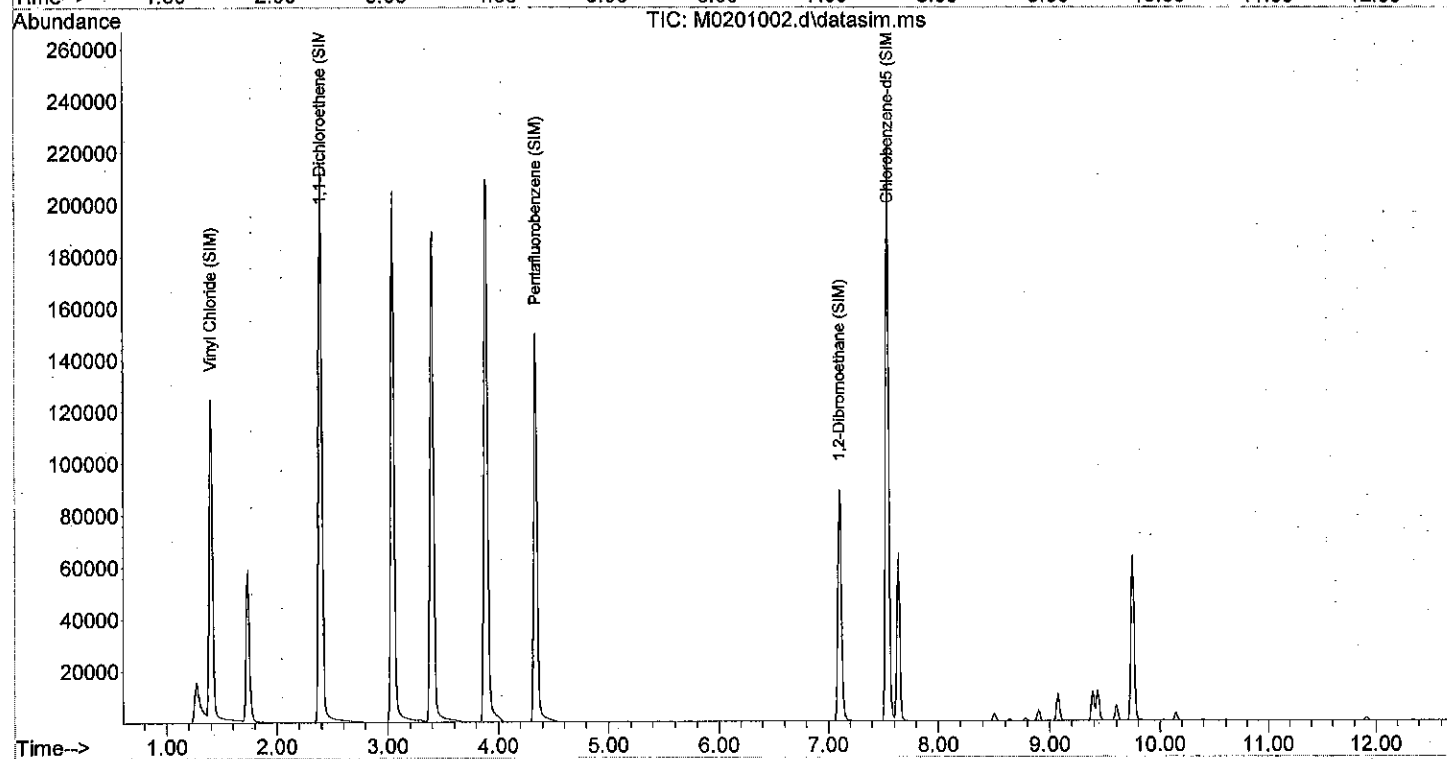
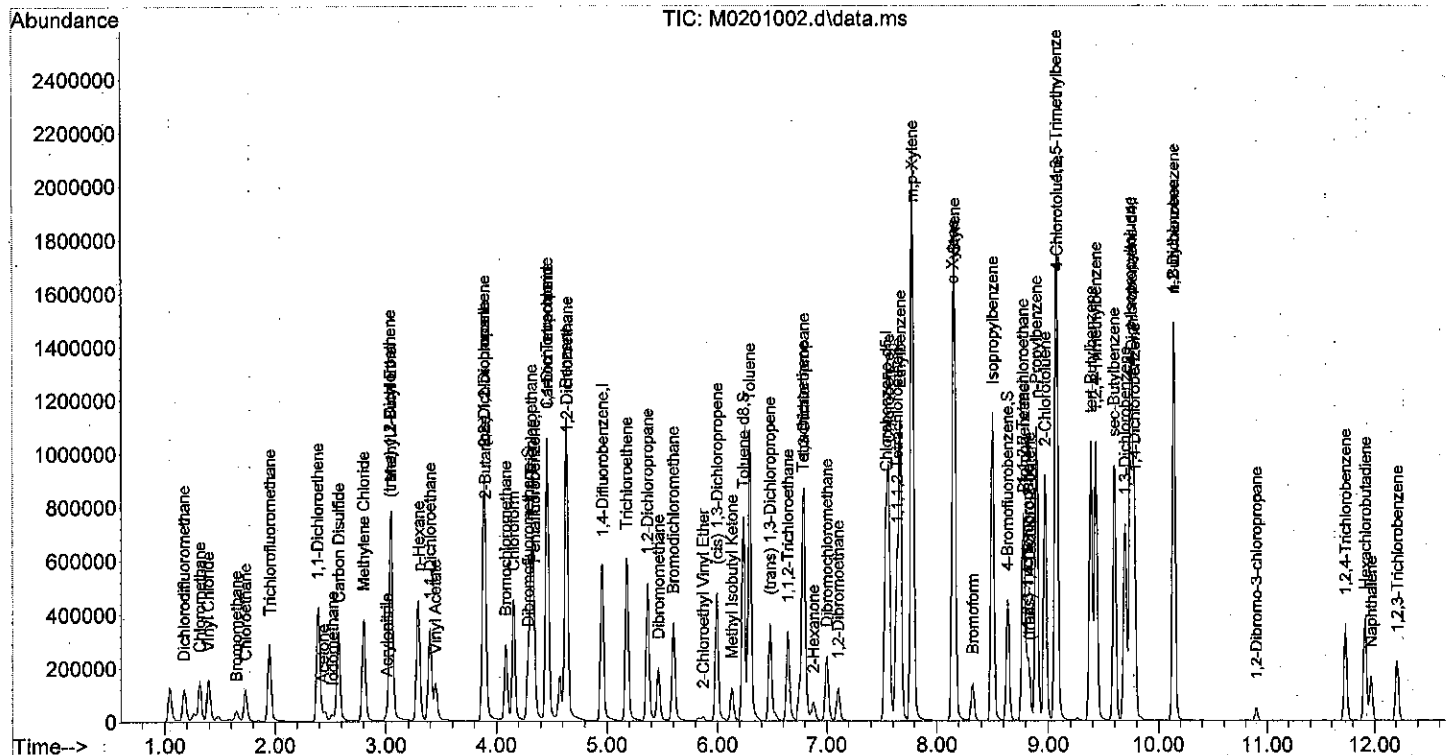
Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Isobutyl Ketone	6.128	43	94723	10.09	ppb	98
42) Toluene	6.291	91	849081	11.27	ppb	100
44) (trans) 1,3-Dichloropr...	6.479	75	211962	10.41	ppb	99
45) 1,1,2-Trichloroethane	6.642	97	108758	10.40	ppb	85
46) Tetrachloroethene	6.781	166	261910	10.99	ppb	100
47) 1,3-Dichloropropane	6.791	76	229876	10.12	ppb	100
48) 2-Hexanone	6.876	43	60999	9.25	ppb	92
49) Dibromochloromethane	6.999	129	155990	10.32	ppb	100
50) 1,2-Dibromoethane	7.103	107	102844	9.67	ppb	98
51) Chlorobenzene	7.561	112	505357	11.13	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	174112	10.76	ppb	99
53) Ethylbenzene	7.670	91	937503	11.29	ppb	100
54) m,p-Xylene	7.779	91	1455618	22.61	ppb	99
55) o-Xylene	8.145	91	713866	10.95	ppb	100
56) Styrene	8.161	104	563804	10.79	ppb	100
57) Bromoform	8.324	173	76379	10.16	ppb	99
58) Isopropylbenzene	8.504	105	884889	11.35	ppb	99
61] 1,2-Dibromoethane (SIM)	7.100	107	106202	10335.48	ppt	100
63) Bromobenzene	8.784	156	197579	11.27	ppb	100
64) 1,1,2,2-Tetrachloroethane	8.776	83	111516	10.07	ppb	100
65) 1,2,3-Trichloropropane	8.815	75	137249	9.60	ppb #	100
66) (trans) 1,4-Dichloro-2...	8.831	53	32487	9.20	ppb	95
67) n-Propylbenzene	8.893	91	1001621	11.40	ppb	100
68) 2-Chlorotoluene	8.971	126	201848	11.45	ppb	99
69) 4-Chlorotoluene	9.080	126	205890	11.35	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	708660	11.46	ppb	99
71) tert-Butylbenzene	9.384	119	670447	11.08	ppb	99
72) 1,2,4-Trimethylbenzene	9.431	105	699406	11.24	ppb	100
73) sec-Butylbenzene	9.594	105	797933	11.49	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	353294	11.20	ppb	99
75) p-Isopropyltoluene	9.742	119	701260	11.06	ppb	99
76) 1,4-Dichlorobenzene	9.781	146	355041	11.15	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	286181	10.76	ppb	100
78) n-Butylbenzene	10.139	91	606294	11.48	ppb	99
79) 1,2-Dibromo-3-chloropr...	10.903	157	15040	9.47	ppb	94
80) 1,2,4-Trichlorobenzene	11.728	180	134084	10.02	ppb	99
81) Hexachlorobutadiene	11.915	225	90887	11.28	ppb	99
82) Naphthalene	11.970	128	162227	8.63	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	84846	8.99	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201003.d
 Acq On : 1 Feb 2022 12:19 pm
 Operator :
 Sample : SBD0201W1
 Misc : V4-088-14/V4-087-26
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 01 12:31:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	300251	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	308604	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	515343	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	428269	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	433796	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	175404	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	126307	9.97	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	99.70%
41) Toluene-d8	6.237	98	563982	9.88	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.80%
59) 4-Bromofluorobenzene	8.636	95	179035	9.35	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	93.50%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.174	85	130166	10.73	ppb	# 100
3) Chloromethane	1.316	50	168131	10.21	ppb	# 100
4) Vinyl Chloride	1.392	62	185696	10.77	ppb	94
5) Bromomethane	1.647	96	41682	7.92	ppb	97
6) Chloroethane	1.732	64	117433	10.35	ppb	99
7) Trichlorofluoromethane	1.950	101	310391	11.38	ppb	100
8) 1,1-Dichloroethene	2.385	61	340148	11.72	ppb	98
9) Acetone	2.433	43	20714	10.97	ppb	# 86
10) Iodomethane	2.518	142	72499	3.89	ppb	100
11) Carbon Disulfide	2.575	76	533705	10.26	ppb	100
12) Methylene Chloride	2.802	49	279243	10.84	ppb	99
13) Acrylonitrile	3.048	53	4000	1.40	ppb	# 10
14) (trans) 1,2-Dichloroet...	3.038	61	326105	11.56	ppb	100
15) Methyl t-Butyl Ether	3.048	73	352339	10.42	ppb	98
17) 1,1-Dichloroethane	3.398	63	385284	11.50	ppb	100
18) Vinyl Acetate	3.445	43	243352	9.81	ppb	99
19) 2,2-Dichloropropane	3.890	77	366222	12.84	ppb	98
20) (cis) 1,2-Dichloroethene	3.890	61	416004	11.99	ppb	99
21) 2-Butanone	3.899	43	39453	10.57	ppb	94
22) Bromochloromethane	4.085	130	117317	13.01	ppb	94
23) Chloroform	4.155	83	356677	11.91	ppb	100
24) 1,1,1-Trichloroethane	4.319	97	327198	11.31	ppb	94
26) Carbon Tetrachloride	4.459	117	300214	11.61	ppb	100
27) 1,1-Dichloropropene	4.459	75	283277	11.60	ppb	99
28) Benzene	4.631	78	795210	11.66	ppb	99
29) 1,2-Dichloroethane	4.638	62	215057	11.28	ppb	99
31] Vinyl Chloride (SIM)	1.398	62	190318	10092.79	ppt	94
32] 1,1-Dichloroethene (SIM)	2.391	61	348961	11701.82	ppt	100
34) Trichloroethene	5.176	130	222604	11.60	ppb	99
35) 1,2-Dichloropropane	5.363	63	203915	10.51	ppb	99
36) Dibromomethane	5.465	174	87727	11.13	ppb	99
37) Bromodichloromethane	5.597	83	253487	11.14	ppb	99
38) 2-Chloroethyl Vinyl Ether	5.870	63	6976	5.01	ppb	96
39) (cis) 1,3-Dichloropropene	5.995	75	292351	10.88	ppb	99
40) Methyl Isobutyl Ketone	6.128	43	95283	10.06	ppb	98

*did not spike
 2-2-22*

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201003.d
 Acq On : 1 Feb 2022 12:19 pm
 Operator :
 Sample : SBD0201W1
 Misc : V4-088-14/V4-087-26
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 01 12:31:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

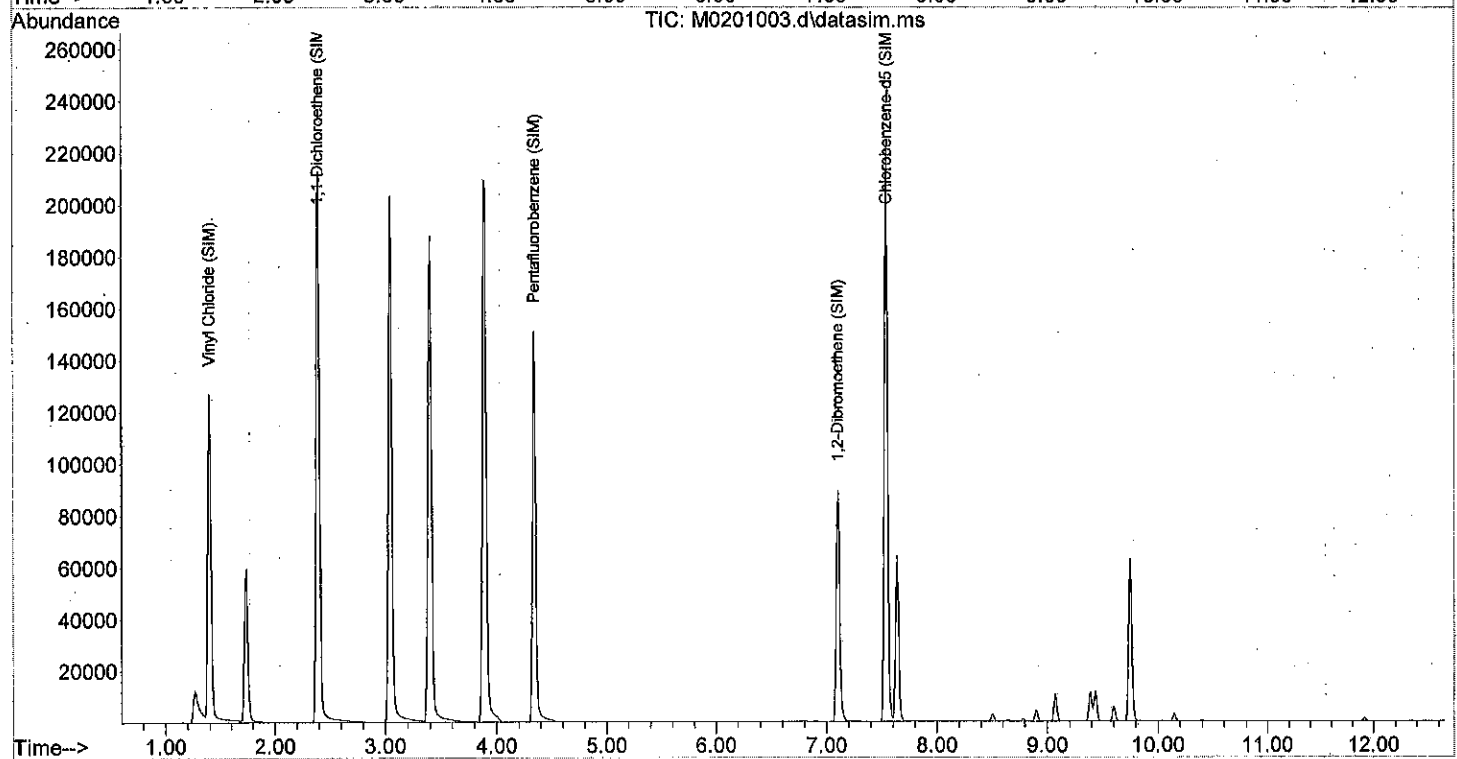
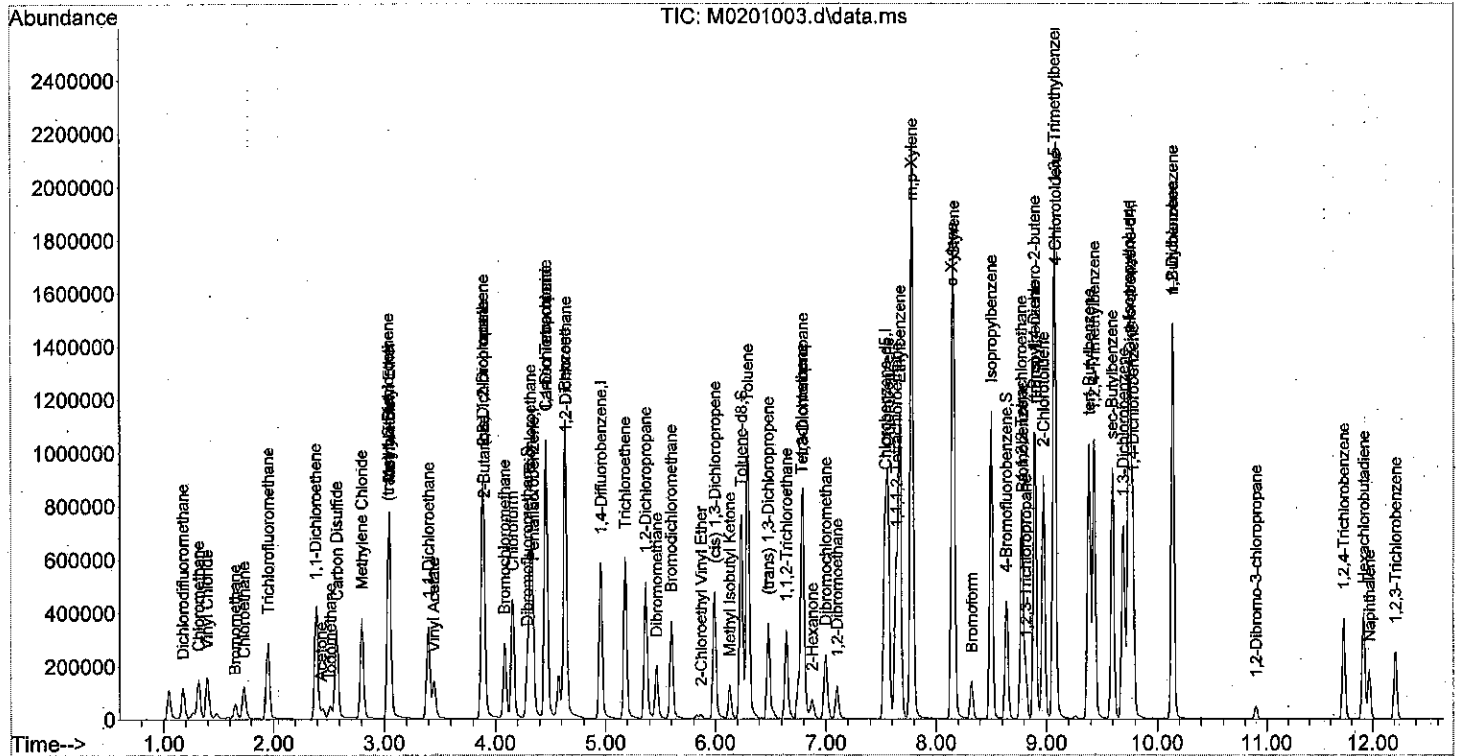
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	6.291	91	855557	11.25	ppb	99
44) (trans) 1,3-Dichloropr...	6.478	75	211183	10.24	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	109818	10.36	ppb	85
46) Tetrachloroethene	6.781	166	258458	10.70	ppb	99
47) 1,3-Dichloropropane	6.791	76	233008	10.12	ppb	100
48) 2-Hexanone	6.876	43	61924	9.26	ppb	94
49) Dibromochloromethane	6.999	129	156326	10.21	ppb	99
50) 1,2-Dibromoethane	7.103	107	103697	9.62	ppb	98
51) Chlorobenzene	7.561	112	504678	10.97	ppb	100
52) 1,1,1,2-Tetrachloroethane	7.639	133	174236	10.62	ppb	100
53) Ethylbenzene	7.670	91	933285	11.09	ppb	99
54) m,p-Xylene	7.779	91	1450964	22.24	ppb	100
55) o-Xylene	8.145	91	715918	10.84	ppb	100
56) Styrene	8.161	104	563413	10.64	ppb	100
57) Bromoform	8.324	173	76413	10.03	ppb	100
58) Isopropylbenzene	8.504	105	883707	11.19	ppb	100
61] 1,2-Dibromoethane (SIM)	7.100	107	106912	10421.30	ppt	100
63) Bromobenzene	8.784	156	197070	11.26	ppb	99
64) 1,1,2,2-Tetrachloroethane	8.776	83	111411	10.07	ppb	100
65) 1,2,3-Trichloropropane	8.815	75	102502	7.18	ppb	# 100
66) (trans) 1,4-Dichloro-2...	8.893	53	5864	1.66	ppb	# 1
67) n-Propylbenzene	8.893	91	999047	11.40	ppb	99
68) 2-Chlorotoluene	8.971	126	202137	11.48	ppb	99
69) 4-Chlorotoluene	9.080	126	206117	11.38	ppb	98
70) 1,3,5-Trimethylbenzene	9.072	105	700405	11.34	ppb	100
71) tert-Butylbenzene	9.384	119	664868	11.00	ppb	99
72) 1,2,4-Trimethylbenzene	9.431	105	696748	11.22	ppb	100
73) sec-Butylbenzene	9.594	105	787743	11.36	ppb	99
74) 1,3-Dichlorobenzene	9.695	146	357453	11.35	ppb	99
75) p-Isopropyltoluene	9.742	119	697607	11.02	ppb	99
76) 1,4-Dichlorobenzene	9.781	146	355598	11.19	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	288475	10.86	ppb	100
78) n-Butylbenzene	10.139	91	603775	11.45	ppb	100
79) 1,2-Dibromo-3-chloropr...	10.903	157	15238	9.61	ppb	95
80) 1,2,4-Trichlorobenzene	11.728	180	140718	10.53	ppb	100
81) Hexachlorobutadiene	11.915	225	93233	11.59	ppb	99
82) Naphthalene	11.970	128	178787	9.52	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	95505	10.14	ppb	98

*didn't
 file
 SP
 2-2-22*

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201003.d
 Acq On : 1 Feb 2022 12:19 pm
 Operator :
 Sample : SBD0201W1
 Misc : V4-088-14/V4-087-26
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 01 12:31:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	87	0.00
2	Dichlorodifluoromethane	10.000	11.301	-13.0	101	0.00
3	Chloromethane	10.000	10.621	-6.2	97	0.00
4	Vinyl Chloride	10.000	10.855	-8.6	95	0.00
5	Bromomethane	10.000	4.867	51.3#	46	0.00
6	Chloroethane	10.000	10.696	-7.0	102	0.00
7	Trichlorofluoromethane	10.000	11.701	-17.0	104	0.00
8	1,1-Dichloroethene	10.000	12.072	-20.7#	103	0.00
9	Acetone	10.000	11.328	-13.3	99	0.00
10	Iodomethane	10.000	1.794	82.1#	14	0.00
11	Carbon Disulfide	10.000	10.451	-4.5	91	0.00
12	Methylene Chloride	10.000	11.078	-10.8	97	0.00
13	Acrylonitrile	10.000	10.885	-8.8	89	0.00
14	(trans) 1,2-Dichloroethene	10.000	11.892	-18.9	103	0.00
15	Methyl t-Butyl Ether	10.000	10.569	-5.7	95	0.00
16	n-Hexane	10.000	11.093	-10.9	100	0.00
17	1,1-Dichloroethane	10.000	11.629	-16.3	101	0.00
18	Vinyl Acetate	10.000	9.664	3.4	84	0.00
19	2,2-Dichloropropane	10.000	12.944	-29.4#	112	0.00
20	(cis) 1,2-Dichloroethene	10.000	12.211	-22.1#	103	0.00
21	2-Butanone	10.000	10.856	-8.6	95	0.00
22	Bromochloromethane	10.000	13.280	-32.8#	103	0.00
23	Chloroform	10.000	12.128	-21.3#	103	0.00
24	1,1,1-Trichloroethane	10.000	11.530	-15.3	103	0.00
25 S	Dibromofluoromethane	10.000	10.164	-1.6	88	0.00
26	Carbon Tetrachloride	10.000	11.891	-18.9	104	0.00
27	1,1-Dichloropropene	10.000	11.819	-18.2	104	0.00
28	Benzene	10.000	11.819	-18.2	103	0.00
29	1,2-Dichloroethane	10.000	11.410	-14.1	98	0.00
30	Pentafluorobenzene (SIM)	10000.000	10000.000	0.0	88	0.00
31	Vinyl Chloride (SIM)	10000.000	10076.429	-0.8	95	0.00
32	1,1-Dichloroethene (SIM)	10000.000	11891.441	-18.9	102	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34	Trichloroethene	10.000	11.617	-16.2	106	0.00
35	1,2-Dichloropropane	10.000	10.798	-8.0	100	0.00
36	Dibromomethane	10.000	11.124	-11.2	100	0.00
37	Bromodichloromethane	10.000	11.210	-12.1	101	0.00
38	2-Chloroethyl Vinyl Ether	10.000	5.009	49.9#	46	0.00
39	(cis) 1,3-Dichloropropene	10.000	11.067	-10.7	100	0.00
40	Methyl Isobutyl Ketone	10.000	10.094	-0.9	91	0.00
41 S	Toluene-d8	10.000	9.953	0.5	91	0.00
42	Toluene	10.000	11.273	-12.7	104	0.00
43 I	Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
44	(trans) 1,3-Dichloropropene	10.000	10.415	-4.1	97	0.00
45	1,1,2-Trichloroethane	10.000	10.398	-4.0	82	0.00

Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
46	Tetrachloroethene	10.000	10.988	-9.9	108	0.00
47	1,3-Dichloropropane	10.000	10.122	-1.2	98	0.00
48	2-Hexanone	10.000	9.245	7.6	80	0.00
49	Dibromochloromethane	10.000	10.324	-3.2	98	0.00
50	1,2-Dibromoethane	10.000	9.670	3.3	95	0.00
51	Chlorobenzene	10.000	11.133	-11.3	105	0.00
52	1,1,1,2-Tetrachloroethane	10.000	10.757	-7.6	103	0.00
53	Ethylbenzene	10.000	11.292	-12.9	105	0.00
54	m,p-Xylene	20.000	22.613	-13.1	105	0.00
55	o-Xylene	10.000	10.953	-9.5	104	0.00
56	Styrene	10.000	10.792	-7.9	103	0.00
57	Bromoforn	10.000	10.160	-1.6	94	0.00
58	Isopropylbenzene	10.000	11.354	-13.5	105	0.00
59 S	4-Bromofluorobenzene	10.000	9.464	5.4	89	0.00
60	Chlorobenzene-d5 (SIM)	10000.000	10000.000	0.0	96	0.00
61	1,2-Dibromoethane (SIM)	10000.000	10335.483	-3.4	98	0.00
62 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	93	0.00
63	Bromobenzene	10.000	11.268	-12.7	104	0.00
64	1,1,2,2-Tetrachloroethane	10.000	10.065	-0.6	96	0.00
65	1,2,3-Trichloropropane	10.000	9.600	4.0	94	0.00
66	(trans) 1,4-Dichloro-2-bute	10.000	9.199	8.0	89	0.00
67	n-Propylbenzene	10.000	11.405	-14.0	105	0.00
68	2-Chlorotoluene	10.000	11.447	-14.5	105	0.00
69	4-Chlorotoluene	10.000	11.351	-13.5	104	0.00
70	1,3,5-Trimethylbenzene	10.000	11.457	-14.6	106	0.00
71	tert-Butylbenzene	10.000	11.075	-10.7	105	0.00
72	1,2,4-Trimethylbenzene	10.000	11.240	-12.4	104	0.00
73	sec-Butylbenzene	10.000	11.485	-14.8	105	0.00
74	1,3-Dichlorobenzene	10.000	11.201	-12.0	103	0.00
75	p-Isopropyltoluene	10.000	11.057	-10.6	105	0.00
76	1,4-Dichlorobenzene	10.000	11.153	-11.5	102	0.00
77	1,2-Dichlorobenzene	10.000	10.755	-7.6	99	0.00
78	n-Butylbenzene	10.000	11.477	-14.8	105	0.00
79	1,2-Dibromo-3-chloropropane	10.000	9.472	5.3	89	0.00
80	1,2,4-Trichlorobenzene	10.000	10.020	-0.2	90	0.00
81	Hexachlorobutadiene	10.000	11.276	-12.8	102	0.00
82	Naphthalene	10.000	8.626	13.7	78	0.00
83	1,2,3-Trichlorobenzene	10.000	8.988	10.1	81	0.00

(#) = Out of Range

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

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	296224	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	307351	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	510393	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	422540	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	434493	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	175715	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	126980	10.16	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.60%
41) Toluene-d8	6.237	98	562615	9.95	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.50%
59) 4-Bromofluorobenzene	8.636	95	178801	9.46	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	94.60%
Target Compounds						
2) Dichlorodifluoromethane	1.174	85	135218	11.30	ppb	Qvalue # 100
3) Chloromethane	1.316	50	172561	10.62	ppb	# 100
4) Vinyl Chloride	1.392	62	184567	10.85	ppb	93
5) Bromomethane	1.647	96	25286	4.87	ppb	96
6) Chloroethane	1.732	64	119740	10.70	ppb	100
7) Trichlorofluoromethane	1.950	101	314753	11.70	ppb	100
8) 1,1-Dichloroethene	2.385	61	345586	12.07	ppb	99
9) Acetone	2.433	43	21101	11.33	ppb	# 84
10) Iodomethane	2.518	142	32970	1.79	ppb	100
11) Carbon Disulfide	2.575	76	536220	10.45	ppb	100
12) Methylene Chloride	2.802	49	281459	11.08	ppb	99
13) Acrylonitrile	3.010	53	30657	10.88	ppb	# 95
14) (trans) 1,2-Dichloroet...	3.038	61	330842	11.89	ppb	99
15) Methyl t-Butyl Ether	3.048	73	352745	10.57	ppb	99
16) n-Hexane	3.294	57	256366	11.09	ppb	98
17) 1,1-Dichloroethane	3.398	63	384370	11.63	ppb	99
18) Vinyl Acetate	3.445	43	236616	9.66	ppb	98
19) 2,2-Dichloropropane	3.890	77	364110	12.94	ppb	98
20) (cis) 1,2-Dichloroethene	3.890	61	418137	12.21	ppb	100
21) 2-Butanone	3.899	43	39984	10.86	ppb	99
22) Bromochloromethane	4.085	130	118124	13.28	ppb	94
23) Chloroform	4.155	83	358338	12.13	ppb	99
24) 1,1,1-Trichloroethane	4.319	97	329061	11.53	ppb	93
26) Carbon Tetrachloride	4.459	117	303356	11.89	ppb	99
27) 1,1-Dichloropropene	4.459	75	284706	11.82	ppb	100
28) Benzene	4.631	78	795535	11.82	ppb	100
29) 1,2-Dichloroethane	4.638	62	214713	11.41	ppb	100
31] Vinyl Chloride (SIM)	1.398	62	189238	10076.43	ppt	92
32] 1,1-Dichloroethene (SIM)	2.391	61	353176	11891.44	ppt	100
34) Trichloroethene	5.176	130	220848	11.62	ppb	99
35) 1,2-Dichloropropane	5.363	63	207406	10.80	ppb	100
36) Dibromomethane	5.465	174	86839	11.12	ppb	98
37) Bromodichloromethane	5.597	83	252605	11.21	ppb	99
38) 2-Chloroethyl Vinyl Ether	5.870	63	6904	5.01	ppb	96
39) (cis) 1,3-Dichloropropene	5.995	75	294415	11.07	ppb	98

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

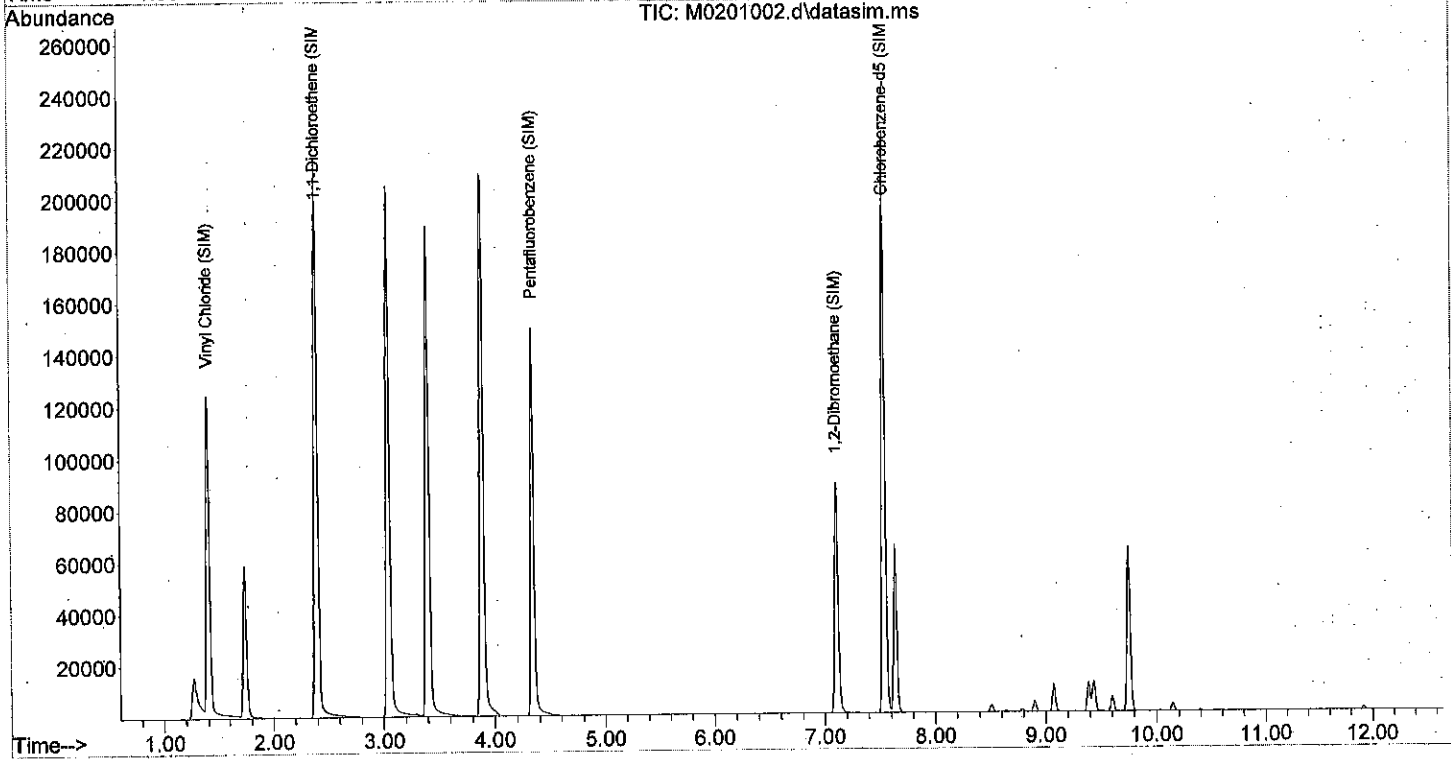
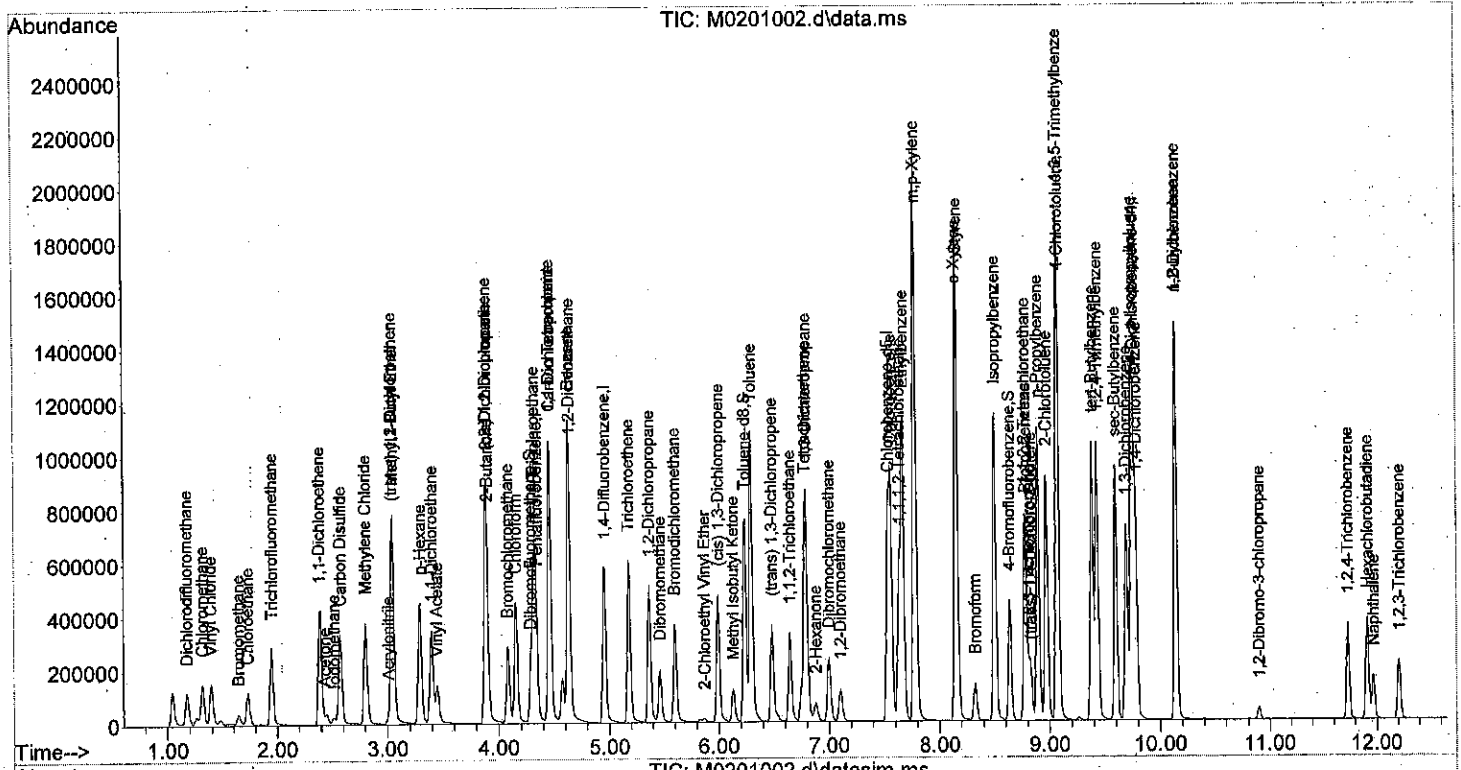
Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Isobutyl Ketone	6.128	43	94723	10.09	ppb	98
42) Toluene	6.291	91	849081	11.27	ppb	100
44) (trans) 1,3-Dichloropr...	6.479	75	211962	10.41	ppb	99
45) 1,1,2-Trichloroethane	6.642	97	108758	10.40	ppb	85
46) Tetrachloroethene	6.781	166	261910	10.99	ppb	100
47) 1,3-Dichloropropane	6.791	76	229876	10.12	ppb	100
48) 2-Hexanone	6.876	43	60999	9.25	ppb	92
49) Dibromochloromethane	6.999	129	155990	10.32	ppb	100
50) 1,2-Dibromoethane	7.103	107	102844	9.67	ppb	98
51) Chlorobenzene	7.561	112	505357	11.13	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	174112	10.76	ppb	99
53) Ethylbenzene	7.670	91	937503	11.29	ppb	100
54) m,p-Xylene	7.779	91	1455618	22.61	ppb	99
55) o-Xylene	8.145	91	713866	10.95	ppb	100
56) Styrene	8.161	104	563804	10.79	ppb	100
57) Bromoform	8.324	173	76379	10.16	ppb	99
58) Isopropylbenzene	8.504	105	884889	11.35	ppb	99
61) 1,2-Dibromoethane (SIM)	7.100	107	106202	10335.48	ppt	100
63) Bromobenzene	8.784	156	197579	11.27	ppb	100
64) 1,1,2,2-Tetrachloroethane	8.776	83	111516	10.07	ppb	100
65) 1,2,3-Trichloropropane	8.815	75	137249	9.60	ppb	# 100
66) (trans) 1,4-Dichloro-2...	8.831	53	32487	9.20	ppb	95
67) n-Propylbenzene	8.893	91	1001621	11.40	ppb	100
68) 2-Chlorotoluene	8.971	126	201848	11.45	ppb	99
69) 4-Chlorotoluene	9.080	126	205890	11.35	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	708660	11.46	ppb	99
71) tert-Butylbenzene	9.384	119	670447	11.08	ppb	99
72) 1,2,4-Trimethylbenzene	9.431	105	699406	11.24	ppb	100
73) sec-Butylbenzene	9.594	105	797933	11.49	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	353294	11.20	ppb	99
75) p-Isopropyltoluene	9.742	119	701260	11.06	ppb	99
76) 1,4-Dichlorobenzene	9.781	146	355041	11.15	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	286181	10.76	ppb	100
78) n-Butylbenzene	10.139	91	606294	11.48	ppb	99
79) 1,2-Dibromo-3-chloropr...	10.903	157	15040	9.47	ppb	94
80) 1,2,4-Trichlorobenzene	11.728	180	134084	10.02	ppb	99
81) Hexachlorobutadiene	11.915	225	90887	11.28	ppb	99
82) Naphthalene	11.970	128	162227	8.63	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	84846	8.99	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220201\
 Data File : M0201002.d
 Acq On : 1 Feb 2022 11:44 am
 Operator :
 Sample : SB0201W1 (CCV0201W1)
 Misc : V4-088-14/V4-087-26/V4-082-12/V4-088-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 01 11:57:35 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220114WSIMH.M
 Quant Title :
 QLast Update : Fri Jan 14 16:46:44 2022
 Response via : Initial Calibration



Total Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02-2022 February\I220204D1.wszf

Creation Date: 2/4/2022 10:19:17 AM

Comment:

DL
2-4-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/04/22 01:15:15 pm	0.00000	77	10.82			N/A
Standard #1	STD	02/04/22 01:17:47 pm	0.01000	234	3.26	10.11%		N/A
Standard #2	STD	02/04/22 01:20:19 pm	0.05000	838	4.52	6.18%		N/A
Standard #3	STD	02/04/22 01:22:51 pm	0.50000	8175	3.38	12.99%		N/A
Standard #4	STD	02/04/22 01:25:23 pm	2.50000	39057	3.33	8.77%		N/A
Standard #5	STD	02/04/22 01:27:55 pm	5.00000	70086	0.22	-2.32%		N/A

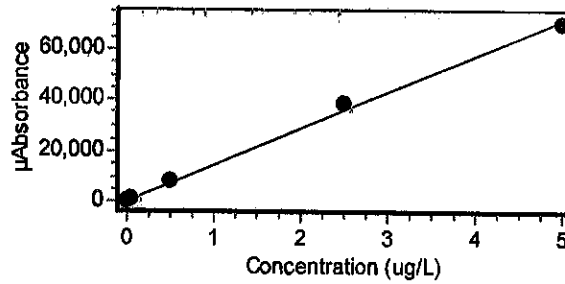
Calibration

Equation: Abs = 14334.880x + 76.605

R2: 0.99635 RSE: 11.43%

SEE: 2122.8550

Flags:

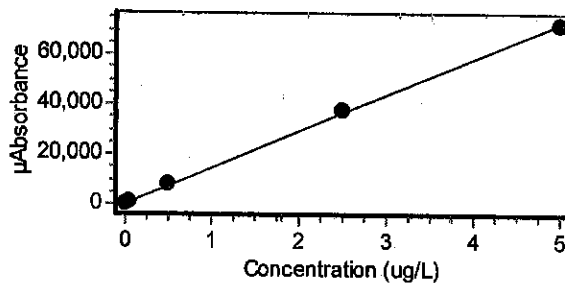


ICV	ICV	02/04/22 01:31:09 pm	2.70130	38799	2.56			108.05
ICB	ICB	02/04/22 01:33:41 pm	-0.00189	50	38.69			N/A
CCV	CCV	02/04/22 01:36:13 pm	2.75770	39608	0.72			110.31
CCB	CCB	02/04/22 01:38:45 pm	-0.00178	51	17.27			N/A
MB0128F1	UNK	02/04/22 01:41:16 pm	0.00419	137	13.78			N/A
SB0128F1	UNK	02/04/22 01:43:48 pm	2.29700	33004	0.50			N/A
01-246-01e	UNK	02/04/22 01:46:20 pm	0.00281	117	15.15			N/A
01-246-01e D	UNK	02/04/22 01:48:52 pm	0.00460	143	9.37			N/A
01-246-01e L	UNK	02/04/22 01:51:24 pm	0.00423	137	17.90			N/A
01-246-01e MS	UNK	02/04/22 01:53:57 pm	2.50110	35930	0.56			N/A
01-246-01e MSD	UNK	02/04/22 01:56:29 pm	2.35940	33899	0.57			N/A
MB0201F1	UNK	02/04/22 01:59:02 pm	0.00268	115	40.85			N/A
SB0201F1	UNK	02/04/22 02:01:34 pm	2.27560	32697	0.40			N/A
02-007-01d	UNK	02/04/22 02:04:05 pm	0.00322	123	25.15			N/A
CCV	CCV	02/04/22 02:06:38 pm	2.58060	37070	0.49			103.23
CCB	CCB	02/04/22 02:09:09 pm	-0.00002	76	367.68			N/A
02-050-01k	UNK	02/04/22 02:11:41 pm	0.00432	139	6.16			N/A
MB0204W1	UNK	02/04/22 02:27:56 pm	0.00099	91	23.65			N/A
SB0204W1 x2	UNK	02/04/22 02:30:28 pm	2.47600	35570	0.82			N/A
02-042-04e	UNK	02/04/22 02:33:00 pm	0.44431	6446	0.69			N/A
02-042-04e D	UNK	02/04/22 02:35:33 pm	0.39597	5753	0.38			N/A
02-042-04e L	UNK	02/04/22 02:38:05 pm	0.09783	1479	1.66			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
02-042-04e MS x2	UNK	02/04/22 02:40:37 pm	2.60130	37366	2.93			N/A
02-042-04e MSD x2	UNK	02/04/22 02:43:10 pm	2.50390	35970	0.28			N/A
02-042-11e	UNK	02/04/22 02:45:43 pm	0.23450	3438	1.38			N/A
02-042-20e	UNK	02/04/22 02:48:15 pm	0.34675	5047	4.48			N/A
CCV	CCV	02/04/22 02:50:47 pm	2.62870	37730	0.72			105.07
CCB	CCB	02/04/22 02:53:19 pm	-0.00075	68	182.22			N/A
02-007-01c	UNK	02/04/22 02:55:51 pm	0.00436	139	21.50			N/A
02-050-01j	UNK	02/04/22 02:58:23 pm	0.00589	161	14.79			N/A
CCV	CCV	02/04/22 03:00:55 pm	2.65570	38145	0.57			106.23
CCB	CCB	02/04/22 03:03:27 pm	0.00033	81	142.58			N/A
MDL 1	UNK	02/04/22 03:07:20 pm	0.01524	295	2.95			N/A
MDL 2	UNK	02/04/22 03:09:52 pm	0.01481	289	2.69			N/A
MDL 3	UNK	02/04/22 03:12:24 pm	0.01419	280	11.55			N/A
MDL 4	UNK	02/04/22 03:14:56 pm	0.01710	322	2.62			N/A
MDL 5	UNK	02/04/22 03:17:28 pm	0.01518	294	2.64			N/A
MDL 6	UNK	02/04/22 03:20:01 pm	0.01522	295	2.39			N/A
MDL 7	UNK	02/04/22 03:22:34 pm	0.01389	276	5.14			N/A
MDL 8	UNK	02/04/22 03:25:05 pm	-0.00152	55	29.29			N/A
MDL 9	UNK	02/04/22 03:27:37 pm	-0.00112	61	79.26			N/A
CCV	CCV	02/04/22 03:30:09 pm	0.03338	555	6.45		Q	1.33
Calibration Blank	STD	02/04/22 03:32:48 pm	0.00000	18	120.67			N/A
Standard #1 (0.01)	STD	02/04/22 03:35:19 pm	0.01000	123	20.72	0.00%		N/A
Calibration Blank	STD	02/04/22 03:48:40 pm	0.00000	-93	22.89			N/A
Standard #1 (0.01)	STD	02/04/22 03:51:12 pm	0.01000	236	3.54	124.65%		N/A
Standard #2 (0.05)	STD	02/04/22 03:53:44 pm	0.05000	824	0.75	25.52%		N/A
Standard #3 (0.5)	STD	02/04/22 03:56:16 pm	0.50000	7783	0.23	7.90%		N/A
Standard #4 (2.5)	STD	02/04/22 03:58:48 pm	2.50000	37915	0.72	4.14%		N/A
Standard #5 (5)	STD	02/04/22 04:01:21 pm	5.00000	72081	0.55	-1.12%		N/A

Calibration

Equation: Abs = 14598.026x + -92.530
R2: 0.99913 RSE: 73.76%
SEE: 1057.4210
Flags:



ICV	ICV	02/04/22 04:04:31 pm	2.55140	37153	0.38			102.06
ICB	ICB	02/04/22 04:07:03 pm	0.00837	30	9.18			N/A
CCV	CCV	02/04/22 04:09:35 pm	2.64520	36522	0.75			105.81
CCB	CCB	02/04/22 04:17:37 pm	0.01036	59	13.78			N/A
MDL 1	UNK	02/04/22 04:20:09 pm	0.02646	294	3.33			N/A
MDL 2	UNK	02/04/22 04:22:41 pm	0.02659	296	2.04			N/A
MDL 3	UNK	02/04/22 04:25:12 pm	0.02558	281	1.98			N/A

Dataset Report

2-7-22
kom

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220204B\
 Report Date/Time: Monday, February 07, 2022 15:19:46

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	MB0204WM1 2X	11:25:06 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\MB0204WM1 2X.001	
	Blank	11:31:02 Fri 04-Fel	Blank	C:\NexIONData_kmckinney\DataSet\X220204B\Blank.002	
	Standard 1	11:35:52 Fri 04-Fel	Standard #1	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 1.003	
	Standard 2	11:40:42 Fri 04-Fel	Standard #2	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 2.004	
	Standard 3	11:45:31 Fri 04-Fel	Standard #3	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 3.005	
	Standard 4	11:50:21 Fri 04-Fel	Standard #4	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 4.006	
	Standard 5	11:55:10 Fri 04-Fel	Standard #5	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 5.007	
	Standard 6	12:00:00 Fri 04-Fel	Standard #6	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 6.008	
	Standard 7	12:04:49 Fri 04-Fel	Standard #7	C:\NexIONData_kmckinney\DataSet\X220204B\Standard 7.009	
	QC Std 1	12:10:29 Fri 04-Fel	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 1.010	
	QC Std 2	12:16:09 Fri 04-Fel	QC Std #2	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 2.011	
	QC Std 6	12:20:58 Fri 04-Fel	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 6.012	
	QC Std 7	12:26:38 Fri 04-Fel	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 7.013	
	QC Std 8	12:32:17 Fri 04-Fel	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 8.014	
	MB0204WM1 2X	12:49:09 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\MB0204WM1 2X.015	
	SB0204WM1 2X	12:54:47 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\SB0204WM1 2X.016	
	02-007-01c 2X	13:00:26 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01c 2X.017	
	02-007-01cD 2X	13:06:04 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cD 2X.018	
	02-007-01cL 10X	13:11:43 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cL 10X.019	
	02-007-01cMS 2X	13:17:22 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cMS 2X.020	
	02-007-01cMSD 2X	13:23:01 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cMSD 2X.021	
	02-007-01cPS 2X	13:28:40 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cPS 2X.022	
	02-050-01j 2X	13:34:35 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-050-01j 2X.023	
	QC Std 6	13:40:14 Fri 04-Fel	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 6.024	
	QC Std 7	13:45:54 Fri 04-Fel	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 7.025	
	QC Std 8	13:51:33 Fri 04-Fel	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 8.026	
	02-042-04e 5X	13:57:21 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-04e 5X.027	
	02-042-11e 5X	14:02:59 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-11e 5X.028	
	02-042-20e 5X	14:08:38 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-20e 5X.029	
	02-042-04e 50X	14:15:23 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-04e 50X.030	
	02-042-11e 50X	14:21:01 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-11e 50X.031	
	02-042-20e 50X	14:26:40 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-20e 50X.032	
	02-042-20e 100X	14:32:19 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-042-20e 100X.033	
	QC Std 6	14:37:58 Fri 04-Fel	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 6.034	
	QC Std 7	14:43:38 Fri 04-Fel	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 7.035	
	QC Std 8	14:49:18 Fri 04-Fel	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 8.036	
	02-012-01c 2X	14:55:50 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-012-01c 2X.037	
	02-012-02c 2X	15:01:28 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-012-02c 2X.038	
	02-012-03c 2X	15:07:07 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-012-03c 2X.039	
	02-012-04c 2X	15:12:47 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-012-04c 2X.040	
	02-012-05c 2X	15:18:26 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\02-012-05c 2X.041	
	QC Std 6	15:27:18 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 6.043	
	QC Std 7	15:32:57 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 7.044	
	QC Std 8	15:38:36 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 8.045	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, February 04, 2022 11:31:02

Report Date/Time: Monday, February 07, 2022 15:18:40

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Blank.002

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	521531.8	0.7				ug/L		Standard
|	Cr	52	6249.0	2.3				ug/L		Standard
|	Cr	53	203.3	2.7				ug/L		Standard
[>	Ge	72	304319.1	1.7				ug/L		Standard
|	As	75	3809.3	2.9				ug/L		Standard
|	As-1	75	89.9	18.2				ug/L		Standard
|	Se	77	59.3	6.8				ug/L		Standard
|	Se	78	4526.7	3.2				ug/L		Standard
|	Br	79	169.0	13.1				ug/L		Standard
|	Se	82	92.7	3.1				ug/L		Standard
|	Kr	83	87.0	9.2				ug/L		Standard
|	Y	89	705022.3	1.4				ug/L		Standard
[	Rh	103	539083.9	1.4				ug/L		Standard
|	Cd	111	326.3	2.7				ug/L		Standard
|	Cd	114	19.1	51.3				ug/L		Standard
[>	In	115	401178.7	0.5				ug/L		Standard
[>	Tb	159	505605.8	0.3				ug/L		Standard
|	Ho	165	511575.7	0.8				ug/L		Standard
|	Pb	208	488.7	6.2				ug/L		Standard
|	Bi	209	319767.9	0.4				ug/L		Standard
|	Th	232	442592.0	1.1				ug/L		Standard
[	Cr-1	52	35.0	2.9				ug/L		KED
|	Cr-1	53	6.0	44.1				ug/L		KED
[>	Ge-1	72	8571.2	1.5				ug/L		KED
|	As-2	75	2.3	49.5				ug/L		KED
|	Y-1	89	14630.2	1.2				ug/L		KED
|	Rh-1	103	94547.2	0.3				ug/L		KED
[	Cd-1	111	0.7	86.6				ug/L		KED
|	Cd-1	114	3.2	98.4				ug/L		KED
[>	In-1	115	10103.0	0.4				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Monday, February 07, 2022 15:18:40

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, February 04, 2022 11:35:52

Report Date/Time: Monday, February 07, 2022 15:18:42

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 1.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	464493.0	1.3				ug/L	521532	Standard
|	Cr	52	8704.3	2.2				ug/L	6249	Standard
|	Cr	53	512.0	2.9				ug/L	203	Standard
>	Ge	72	273393.4	2.6				ug/L	304319	Standard
|	As	75	4022.8	4.4				ug/L	3809	Standard
|	As-1	75	321.2	11.8	0.2000	0.026	13.2	ug/L	90	Standard
|	Se	77	78.0	7.1				ug/L	59	Standard
|	Se	78	4567.1	3.6				ug/L	4527	Standard
|	Br	79	143.7	6.5				ug/L	169	Standard
|	Se	82	116.7	9.9				ug/L	93	Standard
|	Kr	83	89.0	13.0				ug/L	87	Standard
|	Y	89	632121.6	1.1				ug/L	705022	Standard
|	Rh	103	480101.7	2.6				ug/L	539084	Standard
|	Cd	111	817.9	3.8	0.2000	0.014	7.1	ug/L	326	Standard
|	Cd	114	1227.7	3.1	0.2000	0.006	3.1	ug/L	19	Standard
>	In	115	366134.7	1.4				ug/L	401179	Standard
>	Tb	159	453293.6	0.7				ug/L	505606	Standard
|	Ho	165	458372.9	1.2				ug/L	511576	Standard
|	Pb	208	7456.4	1.1	0.2000	0.004	1.8	ug/L	489	Standard
|	Bi	209	294574.3	1.0				ug/L	319768	Standard
|	Th	232	406635.1	0.1				ug/L	442592	Standard
|	Cr-1	52	205.7	11.7				ug/L	35	KED
|	Cr-1	53	23.7	24.4				ug/L	6	KED
>	Ge-1	72	7859.8	1.5				ug/L	8571	KED
|	As-2	75	8.7	29.0	0.2000	0.078	39.0	ug/L	2	KED
|	Y-1	89	13242.8	0.9				ug/L	14630	KED
|	Rh-1	103	85808.6	1.4				ug/L	94547	KED
|	Cd-1	111	40.7	9.9	0.2000	0.020	10.0	ug/L	1	KED
|	Cd-1	114	95.4	10.2	0.2000	0.020	10.2	ug/L	3	KED
>	In-1	115	9066.6	0.3				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 1

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, February 04, 2022 11:40:42

Report Date/Time: Monday, February 07, 2022 15:18:44

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 2.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	475650.8	1.6				ug/L	521532	Standard
|	Cr	52	12714.7	2.6	0.5000	0.014	2.7	ug/L	6249	Standard
|	Cr	53	936.7	3.0	0.5000	0.009	1.8	ug/L	203	Standard
>	Ge	72	280104.4	1.3				ug/L	304319	Standard
|	As	75	4361.6	2.7	0.5000	0.049	9.9	ug/L	3809	Standard
|	As-1	75	683.6	14.6	0.4983	0.077	15.4	ug/L	90	Standard
|	Se	77	102.0	6.9	0.5000	0.070	14.0	ug/L	59	Standard
|	Se	78	4666.8	1.6				ug/L	4527	Standard
|	Br	79	132.7	2.4				ug/L	169	Standard
|	Se	82	166.7	12.3	0.5000	0.118	23.6	ug/L	93	Standard
|	Kr	83	90.0	25.1				ug/L	87	Standard
|	Y	89	643421.6	2.3				ug/L	705022	Standard
|	Rh	103	492729.5	1.3				ug/L	539084	Standard
|	Cd	111	1508.7	6.0	0.4938	0.031	6.2	ug/L	326	Standard
|	Cd	114	3012.6	1.1	0.4985	0.011	2.2	ug/L	19	Standard
>	In	115	370536.3	1.2				ug/L	401179	Standard
>	Tb	159	462686.1	0.4				ug/L	505606	Standard
|	Ho	165	468588.1	1.8				ug/L	511576	Standard
|	Pb	208	17777.4	0.8	0.4977	0.005	1.1	ug/L	489	Standard
|	Bi	209	295395.5	0.7				ug/L	319768	Standard
|	Th	232	410157.3	0.8				ug/L	442592	Standard
|	Cr-1	52	442.3	1.8	0.5000	0.014	2.8	ug/L	35	KED
|	Cr-1	53	47.0	12.9	0.5000	0.075	15.0	ug/L	6	KED
>	Ge-1	72	8029.9	0.8				ug/L	8571	KED
|	As-2	75	21.3	9.8	0.5090	0.051	10.0	ug/L	2	KED
|	Y-1	89	13532.7	1.1				ug/L	14630	KED
|	Rh-1	103	87520.3	0.3				ug/L	94547	KED
|	Cd-1	111	101.3	9.9	0.4988	0.046	9.2	ug/L	1	KED
|	Cd-1	114	221.0	5.2	0.4943	0.027	5.5	ug/L	3	KED
>	In-1	115	9271.1	0.9				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 2

Report Date/Time: Monday, February 07, 2022 15:18:44

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, February 04, 2022 11:45:31

Report Date/Time: Monday, February 07, 2022 15:18:46

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 3.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	494090.7	0.7				ug/L	521532	Standard
|	Cr	52	30873.3	2.0	1.9804	0.038	1.9	ug/L	6249	Standard
|	Cr	53	3008.0	4.0	1.9873	0.092	4.6	ug/L	203	Standard
>	Ge	72	290885.6	1.3				ug/L	304319	Standard
|	As	75	6164.7	2.4	1.9531	0.063	3.2	ug/L	3809	Standard
|	As-1	75	2620.7	3.3	2.0018	0.079	3.9	ug/L	90	Standard
|	Se	77	253.3	2.3	1.9999	0.082	4.1	ug/L	59	Standard
|	Se	78	5200.3	3.2	2.0000	0.226	11.3	ug/L	4527	Standard
|	Br	79	150.0	4.7				ug/L	169	Standard
|	Se	82	437.7	3.5	2.0039	0.109	5.4	ug/L	93	Standard
|	Kr	83	75.0	13.3				ug/L	87	Standard
|	Y	89	669390.5	1.9				ug/L	705022	Standard
|	Rh	103	510114.0	0.6				ug/L	539084	Standard
|	Cd	111	5154.4	1.0	1.9946	0.011	0.6	ug/L	326	Standard
|	Cd	114	12077.9	0.8	1.9964	0.043	2.1	ug/L	19	Standard
>	In	115	381891.3	1.3				ug/L	401179	Standard
>	Tb	159	479796.1	1.4				ug/L	505606	Standard
|	Ho	165	485996.9	0.4				ug/L	511576	Standard
|	Pb	208	70509.3	0.5	1.9958	0.036	1.8	ug/L	489	Standard
|	Bi	209	306700.5	0.9				ug/L	319768	Standard
|	Th	232	422096.6	0.8				ug/L	442592	Standard
|	Cr-1	52	1561.4	2.8	1.9852	0.061	3.1	ug/L	35	KED
|	Cr-1	53	199.7	4.0	2.0121	0.085	4.2	ug/L	6	KED
>	Ge-1	72	8435.2	0.3				ug/L	8571	KED
|	As-2	75	88.0	15.9	2.0106	0.327	16.3	ug/L	2	KED
|	Y-1	89	14335.2	0.8				ug/L	14630	KED
|	Rh-1	103	91508.8	0.7				ug/L	94547	KED
|	Cd-1	111	377.0	5.1	1.9832	0.101	5.1	ug/L	1	KED
|	Cd-1	114	961.3	4.0	2.0045	0.080	4.0	ug/L	3	KED
>	In-1	115	9730.1	0.0				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 3

Report Date/Time: Monday, February 07, 2022 15:18:46

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, February 04, 2022 11:50:21

Report Date/Time: Monday, February 07, 2022 15:18:49

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 4.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	464781.0	0.7				ug/L	521532	Standard
|	Cr	52	63333.1	0.1	4.9813	0.034	0.7	ug/L	6249	Standard
|	Cr	53	6869.7	1.9	5.0027	0.100	2.0	ug/L	203	Standard
>	Ge	72	269195.1	1.7				ug/L	304319	Standard
|	As	75	9513.2	2.6	5.0196	0.078	1.6	ug/L	3809	Standard
|	As-1	75	6175.6	1.8	5.0285	0.008	0.2	ug/L	90	Standard
|	Se	77	513.3	2.3	5.0095	0.212	4.2	ug/L	59	Standard
|	Se	78	6094.6	2.4	5.0236	0.101	2.0	ug/L	4527	Standard
|	Br	79	136.3	13.3				ug/L	169	Standard
|	Se	82	883.7	3.4	4.9960	0.212	4.2	ug/L	93	Standard
|	Kr	83	91.0	11.2				ug/L	87	Standard
|	Y	89	628736.8	1.5				ug/L	705022	Standard
|	Rh	103	479548.2	0.7				ug/L	539084	Standard
|	Cd	111	11939.9	1.0	5.0166	0.043	0.9	ug/L	326	Standard
|	Cd	114	28605.7	0.8	5.0067	0.040	0.8	ug/L	19	Standard
>	In	115	358084.1	0.6				ug/L	401179	Standard
>	Tb	159	454408.0	0.6				ug/L	505606	Standard
|	Ho	165	456870.3	0.4				ug/L	511576	Standard
|	Pb	208	166266.9	0.5	4.9983	0.004	0.1	ug/L	489	Standard
|	Bi	209	289260.7	1.0				ug/L	319768	Standard
|	Th	232	397291.6	1.0				ug/L	442592	Standard
|	Cr-1	52	3546.1	1.5	4.9835	0.122	2.5	ug/L	35	KED
|	Cr-1	53	444.3	6.2	4.9815	0.295	5.9	ug/L	6	KED
>	Ge-1	72	7883.2	1.0				ug/L	8571	KED
|	As-2	75	200.0	8.4	4.9954	0.453	9.1	ug/L	2	KED
|	Y-1	89	13350.9	2.3				ug/L	14630	KED
|	Rh-1	103	86224.4	0.3				ug/L	94547	KED
|	Cd-1	111	874.0	4.2	4.9990	0.257	5.1	ug/L	1	KED
|	Cd-1	114	2249.4	1.8	5.0140	0.043	0.9	ug/L	3	KED
>	In-1	115	8971.3	1.1				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Monday, February 07, 2022 15:18:49

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, February 04, 2022 11:55:10

Report Date/Time: Monday, February 07, 2022 15:18:51

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 5.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	483190.3	1.6				ug/L	521532	Standard
|	Cr	52	243350.4	1.3	19.9797	0.106	0.5	ug/L	6249	Standard
[	Cr	53	27418.3	4.0	19.9713	0.538	2.7	ug/L	203	Standard
>	Ge	72	284102.4	3.2				ug/L	304319	Standard
|	As	75	27394.3	1.5	19.8874	0.472	2.4	ug/L	3809	Standard
|	As-1	75	25218.2	1.7	19.9762	0.630	3.2	ug/L	90	Standard
|	Se	77	1947.5	1.5	19.9641	0.383	1.9	ug/L	59	Standard
|	Se	78	11000.2	2.7	19.6076	0.167	0.8	ug/L	4527	Standard
|	Br	79	153.0	8.6				ug/L	169	Standard
[	Se	82	3343.7	2.6	19.9463	0.753	3.8	ug/L	93	Standard
	Kr	83	94.3	12.6				ug/L	87	Standard
	Y	89	652620.5	0.2				ug/L	705022	Standard
[	Rh	103	498099.7	0.6				ug/L	539084	Standard
|	Cd	111	47721.1	0.9	19.9713	0.065	0.3	ug/L	326	Standard
|	Cd	114	116646.5	1.1	19.9717	0.236	1.2	ug/L	19	Standard
>	In	115	373311.6	0.8				ug/L	401179	Standard
>	Tb	159	473559.7	1.1				ug/L	505606	Standard
|	Ho	165	475332.7	1.0				ug/L	511576	Standard
|	Pb	208	688952.2	0.8	19.9941	0.061	0.3	ug/L	489	Standard
|	Bi	209	302452.2	0.2				ug/L	319768	Standard
[	Th	232	415155.2	0.8				ug/L	442592	Standard
[	Cr-1	52	14368.6	1.4	19.9507	0.445	2.2	ug/L	35	KED
|	Cr-1	53	1746.1	1.9	19.9108	0.788	4.0	ug/L	6	KED
>	Ge-1	72	8304.1	2.0				ug/L	8571	KED
[	As-2	75	908.7	1.8	20.1085	0.031	0.2	ug/L	2	KED
	Y-1	89	13968.5	0.9				ug/L	14630	KED
	Rh-1	103	89779.2	0.4				ug/L	94547	KED
[	Cd-1	111	3627.8	1.5	19.9488	0.088	0.4	ug/L	1	KED
|	Cd-1	114	9183.2	1.1	19.9311	0.471	2.4	ug/L	3	KED
>	In-1	115	9659.1	1.4				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
[	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
[	Se	82		
	Kr	83		
	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Monday, February 07, 2022 15:18:51

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, February 04, 2022 12:00:00

Report Date/Time: Monday, February 07, 2022 15:18:53

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 6.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	503455.3	0.6				ug/L	521532	Standard
|	Cr	52	502676.4	1.8	40.0180	0.485	1.2	ug/L	6249	Standard
|	Cr	53	57393.4	1.6	40.0565	0.434	1.1	ug/L	203	Standard
[>	Ge	72	291395.9	0.4				ug/L	304319	Standard
|	As	75	53753.9	2.5	40.1538	1.105	2.8	ug/L	3809	Standard
|	As-1	75	52978.4	2.0	40.1999	0.864	2.1	ug/L	90	Standard
|	Se	77	4032.2	1.4	40.1832	0.627	1.6	ug/L	59	Standard
|	Se	78	18350.8	2.0	39.9037	1.126	2.8	ug/L	4527	Standard
|	Br	79	148.0	2.0				ug/L	169	Standard
|	Se	82	6875.3	1.9	40.1042	0.921	2.3	ug/L	93	Standard
|	Kr	83	79.7	4.4				ug/L	87	Standard
|	Y	89	667991.9	1.8				ug/L	705022	Standard
|	Rh	103	508302.8	1.6				ug/L	539084	Standard
|	Cd	111	98566.2	0.5	40.1512	0.265	0.7	ug/L	326	Standard
|	Cd	114	243745.9	1.0	40.2215	0.308	0.8	ug/L	19	Standard
[>	In	115	379359.6	0.3				ug/L	401179	Standard
[>	Tb	159	485778.5	1.3				ug/L	505606	Standard
|	Ho	165	488949.9	0.6				ug/L	511576	Standard
|	Pb	208	1445227.2	0.3	40.1881	0.600	1.5	ug/L	489	Standard
|	Bi	209	310864.6	0.4				ug/L	319768	Standard
|	Th	232	428646.5	0.4				ug/L	442592	Standard
|	Cr-1	52	30028.2	1.1	40.2714	0.161	0.4	ug/L	35	KED
|	Cr-1	53	3648.8	0.6	40.2562	0.363	0.9	ug/L	6	KED
[>	Ge-1	72	8388.5	1.2				ug/L	8571	KED
|	As-2	75	1844.1	1.8	40.0941	0.627	1.6	ug/L	2	KED
|	Y-1	89	14462.0	1.3				ug/L	14630	KED
|	Rh-1	103	91185.4	0.8				ug/L	94547	KED
|	Cd-1	111	7545.0	0.4	40.2567	0.277	0.7	ug/L	1	KED
|	Cd-1	114	19230.5	1.5	40.3047	0.312	0.8	ug/L	3	KED
[>	In-1	115	9717.8	0.8				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, February 04, 2022 12:04:49

Report Date/Time: Monday, February 07, 2022 15:18:56

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\Standard 7.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	467304.6	1.8				ug/L	521532	Standard
|	Cr	52	1146160.9	3.6	99.8300	2.260	2.3	ug/L	6249	Standard
|	Cr	53	130714.9	2.6	99.7421	1.841	1.8	ug/L	203	Standard
[>	Ge	72	278753.6	3.0				ug/L	304319	Standard
|	As	75	122629.4	2.2	99.9698	0.855	0.9	ug/L	3809	Standard
|	As-1	75	125862.4	1.9	99.9923	1.263	1.3	ug/L	90	Standard
|	Se	77	9748.0	1.7	100.4057	1.510	1.5	ug/L	59	Standard
|	Se	78	38132.2	2.0	100.1951	1.735	1.7	ug/L	4527	Standard
|	Br	79	160.0	9.2				ug/L	169	Standard
|	Se	82	16488.2	1.0	100.2289	2.566	2.6	ug/L	93	Standard
|	Kr	83	87.7	6.7				ug/L	87	Standard
|	Y	89	631117.9	0.0				ug/L	705022	Standard
|	Rh	103	476863.8	0.5				ug/L	539084	Standard
|	Cd	111	233593.6	0.9	100.0647	0.166	0.2	ug/L	326	Standard
|	Cd	114	571025.2	0.7	99.8691	0.818	0.8	ug/L	19	Standard
[>	In	115	360268.4	0.9				ug/L	401179	Standard
[>	Tb	159	461807.0	0.4				ug/L	505606	Standard
|	Ho	165	468330.2	1.4				ug/L	511576	Standard
|	Pb	208	3348051.0	0.5	99.6463	0.150	0.2	ug/L	489	Standard
|	Bi	209	296053.9	0.5				ug/L	319768	Standard
|	Th	232	406572.5	0.6				ug/L	442592	Standard
|	Cr-1	52	68543.1	1.1	99.4775	0.359	0.4	ug/L	35	KED
|	Cr-1	53	8470.5	2.2	99.7629	1.372	1.4	ug/L	6	KED
[>	Ge-1	72	7956.2	0.8				ug/L	8571	KED
|	As-2	75	4304.0	2.1	99.7845	2.366	2.4	ug/L	2	KED
|	Y-1	89	13589.8	0.8				ug/L	14630	KED
|	Rh-1	103	86468.6	0.8				ug/L	94547	KED
|	Cd-1	111	17815.1	0.8	99.8849	1.151	1.2	ug/L	1	KED
|	Cd-1	114	45034.1	0.5	99.7667	0.638	0.6	ug/L	3	KED
[>	In-1	115	9300.8	0.9				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 7

Report Date/Time: Monday, February 07, 2022 15:18:56

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, February 04, 2022 12:10:29

Report Date/Time: Monday, February 07, 2022 15:18:59

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 1.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	525917.1	0.5				ug/L	521532	Standard
|	Cr	52	643834.6	2.2	49.5913	1.126	2.3	ug/L	6249	Standard
|	Cr	53	73624.3	2.6	49.8496	1.327	2.7	ug/L	203	Standard
>	Ge	72	305446.9	1.3				ug/L	304319	Standard
|	As	75	68761.6	2.7	49.7166	1.085	2.2	ug/L	3809	Standard
|	As-1	75	68377.8	2.2	49.5297	0.795	1.6	ug/L	90	Standard
|	Se	77	5326.0	2.5	49.7646	0.863	1.7	ug/L	59	Standard
|	Se	78	22335.1	1.4	47.8637	1.247	2.6	ug/L	4527	Standard
|	Br	79	164.0	7.4				ug/L	169	Standard
|	Se	82	8622.6	1.1	47.5501	1.148	2.4	ug/L	93	Standard
|	Kr	83	99.3	12.0				ug/L	87	Standard
|	Y	89	702787.3	1.4				ug/L	705022	Standard
|	Rh	103	525977.9	0.3				ug/L	539084	Standard
|	Cd	111	125873.7	0.7	49.2618	0.100	0.2	ug/L	326	Standard
|	Cd	114	308933.1	0.7	49.4231	0.149	0.3	ug/L	19	Standard
>	In	115	393829.1	0.5				ug/L	401179	Standard
>	Tb	159	507453.4	1.3				ug/L	505606	Standard
|	Ho	165	512747.0	0.9				ug/L	511576	Standard
|	Pb	208	1851856.9	0.8	50.1575	0.805	1.6	ug/L	489	Standard
|	Bi	209	323509.1	0.4				ug/L	319768	Standard
|	Th	232	452176.0	0.7				ug/L	442592	Standard
|	Cr-1	52	37929.6	0.4	51.0746	0.398	0.8	ug/L	35	KED
|	Cr-1	53	4627.4	2.9	50.5622	1.607	3.2	ug/L	6	KED
>	Ge-1	72	8571.6	0.4				ug/L	8571	KED
|	As-2	75	2362.9	1.5	50.8192	0.601	1.2	ug/L	2	KED
|	Y-1	89	14829.4	1.2				ug/L	14630	KED
|	Rh-1	103	93715.8	1.2				ug/L	94547	KED
|	Cd-1	111	9659.6	1.1	49.6399	0.915	1.8	ug/L	1	KED
|	Cd-1	114	24221.5	0.5	49.1802	0.649	1.3	ug/L	3	KED
>	In-1	115	10147.6	0.8				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.841
|	Cr	52	99.183	
|	Cr	53	99.699	
>	Ge	72		100.371
|	As	75	99.433	
|	As-1	75	99.059	
|	Se	77	99.529	
|	Se	78	95.727	
|	Br	79		
|	Se	82	95.100	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	98.524	

Sample ID: QC Std 1

Report Date/Time: Monday, February 07, 2022 15:18:59

Cd	114	98.846	
In	115		98.168
Tb	159		100.365
Ho	165		
Pb	208	100.315	
Bi	209		
Th	232		
Cr-1	52	102.149	
Cr-1	53	101.124	
Ge-1	72		100.004
As-2	75	101.638	
Y-1	89		
Rh-1	103		
Cd-1	111	99.280	
Cd-1	114	98.360	
In-1	115		100.441

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, February 04, 2022 12:16:09

Report Date/Time: Monday, February 07, 2022 15:19:01

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 2.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	514040.4	0.9				ug/L	521532	Standard
|	Cr	52	6031.9	3.4	-0.0102	0.012	121.3	ug/L	6249	Standard
|	Cr	53	188.0	11.7	-0.0087	0.014	164.2	ug/L	203	Standard
>	Ge	72	302407.5	3.3				ug/L	304319	Standard
|	As	75	3864.1	1.3	0.0632	0.115	181.3	ug/L	3809	Standard
|	As-1	75	128.3	23.2	0.0286	0.023	79.1	ug/L	90	Standard
|	Se	77	55.3	5.5	-0.0341	0.038	112.1	ug/L	59	Standard
|	Se	78	4580.4	0.5	0.2323	0.424	182.4	ug/L	4527	Standard
|	Br	79	124.3	19.0				ug/L	169	Standard
|	Se	82	106.3	2.4	0.0803	0.006	6.9	ug/L	93	Standard
|	Kr	83	90.0	19.5				ug/L	87	Standard
|	Y	89	681543.1	1.3				ug/L	705022	Standard
|	Rh	103	512165.8	0.5				ug/L	539084	Standard
|	Cd	111	306.1	4.8	-0.0031	0.006	201.0	ug/L	326	Standard
|	Cd	114	27.2	11.2	0.0014	0.000	34.6	ug/L	19	Standard
>	In	115	386064.7	0.4				ug/L	401179	Standard
>	Tb	159	492312.8	0.5				ug/L	505606	Standard
|	Ho	165	502467.7	1.0				ug/L	511576	Standard
|	Pb	208	524.0	2.3	0.0013	0.000	27.4	ug/L	489	Standard
|	Bi	209	315366.0	0.6				ug/L	319768	Standard
|	Th	232	438231.1	0.1				ug/L	442592	Standard
|	Cr-1	52	39.0	20.4	0.0062	0.010	158.1	ug/L	35	KED
|	Cr-1	53	8.7	59.2	0.0303	0.056	183.9	ug/L	6	KED
>	Ge-1	72	8420.8	1.9				ug/L	8571	KED
|	As-2	75	1.3	86.6	-0.0212	0.025	118.8	ug/L	2	KED
|	Y-1	89	14619.1	1.0				ug/L	14630	KED
|	Rh-1	103	92360.9	0.6				ug/L	94547	KED
|	Cd-1	111	2.0	50.0	0.0070	0.005	73.7	ug/L	1	KED
|	Cd-1	114	1.6	73.3	-0.0033	0.002	74.7	ug/L	3	KED
>	In-1	115	9939.6	0.6				ug/L	10103	KED

QC Calculated Values

Internal-Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.564
|	Cr	52		
|	Cr	53		
>	Ge	72		99.372
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 2

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Cd	114	
In	115	96.233
Tb	159	97.371
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.245
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.382

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 04, 2022 12:20:58

Report Date/Time: Monday, February 07, 2022 15:19:04

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 6.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	492552.6	0.7				ug/L	521532	Standard
|	Cr	52	498285.4	1.3	40.8935	0.306	0.7	ug/L	6249	Standard
|	Cr	53	56901.4	1.1	41.1107	0.227	0.6	ug/L	203	Standard
>	Ge	72	292425.0	0.7				ug/L	304319	Standard
|	As	75	53538.4	2.6	39.8851	0.787	2.0	ug/L	3809	Standard
|	As-1	75	52443.7	2.8	39.6634	0.839	2.1	ug/L	90	Standard
|	Se	77	4103.3	1.1	39.9393	0.276	0.7	ug/L	59	Standard
|	Se	78	18317.7	0.7	39.2444	0.307	0.8	ug/L	4527	Standard
|	Br	79	145.0	14.8				ug/L	169	Standard
|	Se	82	6717.2	1.6	38.5866	0.365	0.9	ug/L	93	Standard
|	Kr	83	87.0	16.6				ug/L	87	Standard
|	Y	89	670299.0	0.8				ug/L	705022	Standard
|	Rh	103	497276.1	0.6				ug/L	539084	Standard
|	Cd	111	97689.4	1.3	40.1613	0.363	0.9	ug/L	326	Standard
|	Cd	114	238115.4	0.6	40.0398	0.187	0.5	ug/L	19	Standard
>	In	115	374683.6	0.4				ug/L	401179	Standard
>	Tb	159	478860.1	0.8				ug/L	505606	Standard
|	Ho	165	482342.5	0.4				ug/L	511576	Standard
|	Pb	208	1420703.1	0.6	40.7707	0.166	0.4	ug/L	489	Standard
|	Bi	209	306090.0	1.0				ug/L	319768	Standard
|	Th	232	424857.4	0.9				ug/L	442592	Standard
|	Cr-1	52	29715.9	0.7	40.5213	0.221	0.5	ug/L	35	KED
|	Cr-1	53	3632.8	2.4	40.1995	1.358	3.4	ug/L	6	KED
>	Ge-1	72	8462.5	1.2				ug/L	8571	KED
|	As-2	75	1813.8	2.3	39.5009	0.636	1.6	ug/L	2	KED
|	Y-1	89	14227.1	1.2				ug/L	14630	KED
|	Rh-1	103	89730.9	0.6				ug/L	94547	KED
|	Cd-1	111	7495.0	0.4	39.5172	0.549	1.4	ug/L	1	KED
|	Cd-1	114	18976.4	0.7	39.5316	0.542	1.4	ug/L	3	KED
>	In-1	115	9890.5	1.2				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.443
|	Cr	52	102.234	
|	Cr	53	102.777	
>	Ge	72		96.092
|	As	75	99.713	
|	As-1	75	99.158	
|	Se	77	99.848	
|	Se	78	98.111	
|	Br	79		
|	Se	82	96.466	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	100.403	

Sample ID: QC Std 6

Report Date/Time: Monday, February 07, 2022 15:19:04

Cd	114	100.100	
In	115		93.396
Tb	159		94.710
Ho	165		
Pb	208	101.927	
Bi	209		
Th	232		
Cr-1	52	101.303	
Cr-1	53	100.499	
Ge-1	72		98.731
As-2	75	98.752	
Y-1	89		
Rh-1	103		
Cd-1	111	98.793	
Cd-1	114	98.829	
In-1	115		97.896

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 04, 2022 12:26:38
 Report Date/Time: Monday, February 07, 2022 15:19:06
 Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 7.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	480522.8	1.9				ug/L	521532	Standard
|	Cr	52	242070.9	2.9	20.1187	0.489	2.4	ug/L	6249	Standard
|	Cr	53	27303.7	1.5	20.1527	0.308	1.5	ug/L	203	Standard
[>	Ge	72	287011.4	2.3				ug/L	304319	Standard
|	As	75	27778.3	3.2	19.7041	0.279	1.4	ug/L	3809	Standard
|	As-1	75	25445.1	2.5	19.5756	0.108	0.5	ug/L	90	Standard
|	Se	77	2055.8	5.5	20.1041	0.716	3.6	ug/L	59	Standard
|	Se	78	11135.0	3.4	19.6516	0.687	3.5	ug/L	4527	Standard
|	Br	79	139.3	15.2				ug/L	169	Standard
|	Se	82	3325.4	1.1	19.2121	0.421	2.2	ug/L	93	Standard
|	Kr	83	91.3	10.2				ug/L	87	Standard
|	Y	89	647884.2	0.5				ug/L	705022	Standard
[	Rh	103	482955.8	0.6				ug/L	539084	Standard
|	Cd	111	46808.8	1.0	19.5794	0.006	0.0	ug/L	326	Standard
|	Cd	114	115330.2	0.3	19.7952	0.154	0.8	ug/L	19	Standard
[>	In	115	367063.6	1.0				ug/L	401179	Standard
[>	Tb	159	469771.9	0.6				ug/L	505606	Standard
|	Ho	165	472069.8	0.5				ug/L	511576	Standard
|	Pb	208	678898.8	0.8	19.8528	0.157	0.8	ug/L	489	Standard
|	Bi	209	296678.8	1.5				ug/L	319768	Standard
|	Th	232	411268.6	0.2				ug/L	442592	Standard
[	Cr-1	52	14258.1	1.4	19.8895	0.172	0.9	ug/L	35	KED
|	Cr-1	53	1732.1	1.1	19.5936	0.020	0.1	ug/L	6	KED
[>	Ge-1	72	8262.1	1.1				ug/L	8571	KED
|	As-2	75	885.0	1.0	19.7204	0.412	2.1	ug/L	2	KED
|	Y-1	89	14096.6	2.2				ug/L	14630	KED
|	Rh-1	103	88982.3	0.9				ug/L	94547	KED
[	Cd-1	111	3682.1	1.8	19.7814	0.455	2.3	ug/L	1	KED
|	Cd-1	114	9176.1	1.6	19.4749	0.343	1.8	ug/L	3	KED
[>	In-1	115	9705.7	0.6				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.137
|	Cr	52	100.593	
|	Cr	53	100.763	
[>	Ge	72		94.313
|	As	75	98.520	
|	As-1	75	97.878	
|	Se	77	100.520	
|	Se	78	98.258	
|	Br	79		
|	Se	82	96.060	
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111	97.897	

Sample ID: QC Std 7

Report Date/Time: Monday, February 07, 2022 15:19:06

—	Cd	114	98.976	
↳	In	115		91.496
↳	Tb	159		92.913
—	Ho	165		
—	Pb	208	99.264	
—	Bi	209		
—	Th	232		
—	Cr-1	52	99.447	
—	Cr-1	53	97.968	
↳	Ge-1	72		96.393
—	As-2	75	98.602	
—	Y-1	89		
—	Rh-1	103		
—	Cd-1	111	98.907	
—	Cd-1	114	97.375	
↳	In-1	115		96.067

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, February 04, 2022 12:32:17

Report Date/Time: Monday, February 07, 2022 15:19:09

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 8.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	510588.3	2.0				ug/L	521532	Standard
|	Cr	52	5899.6	0.8	-0.0174	0.009	53.3	ug/L	6249	Standard
|	Cr	53	196.7	8.8	-0.0018	0.010	534.1	ug/L	203	Standard
>	Ge	72	299813.4	1.3				ug/L	304319	Standard
|	As	75	3770.5	1.7	0.0137	0.033	238.2	ug/L	3809	Standard
|	As-1	75	91.5	32.9	0.0022	0.023	1030.4	ug/L	90	Standard
|	Se	77	60.3	16.6	0.0174	0.089	514.4	ug/L	59	Standard
|	Se	78	4464.0	2.6	0.0115	0.243	2118.6	ug/L	4527	Standard
|	Br	79	140.0	5.2				ug/L	169	Standard
|	Se	82	86.3	6.4	-0.0284	0.025	88.9	ug/L	93	Standard
|	Kr	83	93.0	2.2				ug/L	87	Standard
|	Y	89	675232.7	0.5				ug/L	705022	Standard
|	Rh	103	507342.7	0.8				ug/L	539084	Standard
|	Cd	111	321.9	4.9	0.0041	0.005	112.4	ug/L	326	Standard
|	Cd	114	23.8	18.1	0.0009	0.001	78.8	ug/L	19	Standard
>	In	115	383041.9	1.4				ug/L	401179	Standard
>	Tb	159	489389.6	0.6				ug/L	505606	Standard
|	Ho	165	494845.2	0.7				ug/L	511576	Standard
|	Pb	208	516.0	4.1	0.0012	0.001	42.3	ug/L	489	Standard
|	Bi	209	311823.5	0.7				ug/L	319768	Standard
|	Th	232	433093.7	1.1				ug/L	442592	Standard
|	Cr-1	52	37.0	21.1	0.0019	0.010	548.3	ug/L	35	KED
|	Cr-1	53	4.7	32.7	-0.0154	0.017	108.2	ug/L	6	KED
>	Ge-1	72	8712.7	0.7				ug/L	8571	KED
|	As-2	75	1.7	91.7	-0.0148	0.032	218.5	ug/L	2	KED
|	Y-1	89	14847.7	0.8				ug/L	14630	KED
|	Rh-1	103	93894.6	1.9				ug/L	94547	KED
|	Cd-1	111	1.3	43.3	0.0033	0.003	90.1	ug/L	1	KED
|	Cd-1	114	3.5	58.7	0.0004	0.004	1118.1	ug/L	3	KED
>	In-1	115	10366.2	0.6				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		97.902
|	Cr	52		
|	Cr	53		
>	Ge	72		98.519
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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—	Cd	114	
└┘	In	115	95.479
└┘	Tb	159	96.793
—	Ho	165	
—	Pb	208	
—	Bi	209	
└┘	Th	232	
└┘	Cr-1	52	
└┘	Cr-1	53	
└┘	Ge-1	72	101.650
└┘	As-2	75	
└┘	Y-1	89	
└┘	Rh-1	103	
└┘	Cd-1	111	
└┘	Cd-1	114	
└┘	In-1	115	102.605

Quantitative Analysis - Summary Report

Sample ID: MB0204WM1 2X

Sample Date/Time: Friday, February 04, 2022 12:49:09

Report Date/Time: Monday, February 07, 2022 15:19:11

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\MB0204WM1 2X.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	474404.2	1.5				ug/L	521532	Standard
|	Cr	52	8407.5	3.4	0.2347	0.016	6.6	ug/L	6249	Standard
|	Cr	53	533.0	13.8	0.2615	0.049	18.8	ug/L	203	Standard
[>	Ge	72	284815.2	1.4				ug/L	304319	Standard
|	As	75	3833.3	3.0	0.2199	0.066	30.1	ug/L	3809	Standard
|	As-1	75	95.7	7.4	0.0090	0.005	51.2	ug/L	90	Standard
|	Se	77	50.0	30.0	-0.0564	0.149	264.2	ug/L	59	Standard
|	Se	78	4541.7	3.1	0.8787	0.270	30.7	ug/L	4527	Standard
|	Br	79	143.3	3.3				ug/L	169	Standard
|	Se	82	90.3	12.8	0.0210	0.062	296.6	ug/L	93	Standard
|	Kr	83	91.0	9.6				ug/L	87	Standard
|	Y	89	626110.0	3.9				ug/L	705022	Standard
|	Rh	103	471022.4	1.9				ug/L	539084	Standard
|	Cd	111	306.5	5.7	0.0067	0.007	101.7	ug/L	326	Standard
|	Cd	114	28.1	18.1	0.0020	0.001	48.0	ug/L	19	Standard
[>	In	115	357730.9	1.2				ug/L	401179	Standard
[>	Tb	159	450966.2	0.6				ug/L	505606	Standard
|	Ho	165	459797.6	0.8				ug/L	511576	Standard
|	Pb	208	2193.7	3.1	0.0536	0.002	3.8	ug/L	489	Standard
|	Bi	209	291354.8	0.6				ug/L	319768	Standard
|	Th	232	402214.0	1.1				ug/L	442592	Standard
|	Cr-1	52	244.0	15.8	0.2986	0.060	20.0	ug/L	35	KED
|	Cr-1	53	32.7	15.4	0.3089	0.052	16.7	ug/L	6	KED
[>	Ge-1	72	8167.3	1.7				ug/L	8571	KED
|	As-2	75	1.3	173.2	-0.0198	0.053	267.3	ug/L	2	KED
|	Y-1	89	14234.8	2.1				ug/L	14630	KED
|	Rh-1	103	89076.9	0.6				ug/L	94547	KED
|	Cd-1	111	3.0	88.2	0.0124	0.014	112.4	ug/L	1	KED
|	Cd-1	114	4.7	31.2	0.0033	0.003	94.3	ug/L	3	KED
[>	In-1	115	9816.1	0.7				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		90.964
|	Cr	52		
|	Cr	53		
[>	Ge	72		93.591
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0204WM1 2X

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Cd	114	
In	115	89.170
Tb	159	89.193
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	95.288
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.160

Quantitative Analysis - Summary Report

Sample ID: SB0204WM1 2X

Sample Date/Time: Friday, February 04, 2022 12:54:47

Report Date/Time: Monday, February 07, 2022 15:19:13

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\SB0204WM1 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	466195.4	1.7				ug/L	521532	Standard
|	Cr	52	615698.6	2.6	53.5317	0.492	0.9	ug/L	6249	Standard
|	Cr	53	70864.7	1.9	54.1371	0.192	0.4	ug/L	203	Standard
>	Ge	72	280258.3	1.2				ug/L	304319	Standard
|	As	75	64344.0	3.4	50.7555	1.230	2.4	ug/L	3809	Standard
|	As-1	75	63762.6	3.3	50.3320	1.089	2.2	ug/L	90	Standard
|	Se	77	5050.2	3.1	51.4434	0.977	1.9	ug/L	59	Standard
|	Se	78	21521.5	1.3	50.8695	0.165	0.3	ug/L	4527	Standard
|	Br	79	305.3	3.0				ug/L	169	Standard
|	Se	82	8212.4	1.3	49.3681	0.359	0.7	ug/L	93	Standard
|	Kr	83	81.7	7.0				ug/L	87	Standard
|	Y	89	622154.5	2.4				ug/L	705022	Standard
|	Rh	103	462275.7	1.2				ug/L	539084	Standard
|	Cd	111	116631.4	0.5	51.2547	0.484	0.9	ug/L	326	Standard
|	Cd	114	284914.4	0.5	51.1774	0.423	0.8	ug/L	19	Standard
>	In	115	350769.3	0.4				ug/L	401179	Standard
>	Tb	159	449154.0	1.3				ug/L	505606	Standard
|	Ho	165	457380.7	0.7				ug/L	511576	Standard
|	Pb	208	1700109.8	0.5	52.0221	0.411	0.8	ug/L	489	Standard
|	Bi	209	287923.6	0.6				ug/L	319768	Standard
|	Th	232	396852.4	1.0				ug/L	442592	Standard
|	Cr-1	52	37470.1	0.6	53.8369	0.669	1.2	ug/L	35	KED
|	Cr-1	53	4438.4	1.6	51.7400	0.756	1.5	ug/L	6	KED
>	Ge-1	72	8033.9	0.7				ug/L	8571	KED
|	As-2	75	2226.2	2.2	51.0824	0.867	1.7	ug/L	2	KED
|	Y-1	89	13834.0	1.7				ug/L	14630	KED
|	Rh-1	103	86498.4	1.2				ug/L	94547	KED
|	Cd-1	111	9445.1	1.0	50.8265	0.260	0.5	ug/L	1	KED
|	Cd-1	114	23398.3	1.0	49.7533	0.743	1.5	ug/L	3	KED
>	In-1	115	9690.1	1.3				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		89.390
|	Cr	52		
|	Cr	53		
>	Ge	72		92.094
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0204WM1 2X

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Cd	114	
In	115	87.435
Tb	159	88.835
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.731
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	95.913

Quantitative Analysis - Summary Report

Sample ID: 02-007-01c 2X

Sample Date/Time: Friday, February 04, 2022 13:00:26

Report Date/Time: Monday, February 07, 2022 15:19:16

Method File: C:\NexlONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220204B\02-007-01c 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	513167.4	1.2				ug/L	521532	Standard
|	Cr	52	23989.5	2.3	1.4221	0.028	2.0	ug/L	6249	Standard
|	Cr	53	2128.5	4.2	1.3416	0.051	3.8	ug/L	203	Standard
>	Ge	72	266994.3	2.1				ug/L	304319	Standard
|	As	75	7229.6	2.4	3.4049	0.021	0.6	ug/L	3809	Standard
|	As-1	75	3572.7	3.2	2.8994	0.090	3.1	ug/L	90	Standard
|	Se	77	89.7	11.2	0.4054	0.088	21.6	ug/L	59	Standard
|	Se	78	4745.8	2.3	2.3823	0.102	4.3	ug/L	4527	Standard
|	Br	79	50827.6	1.0				ug/L	169	Standard
|	Se	82	207.3	15.7	0.8051	0.222	27.5	ug/L	93	Standard
|	Kr	83	78.7	9.7				ug/L	87	Standard
|	Y	89	619459.0	1.7				ug/L	705022	Standard
|	Rh	103	424719.3	0.8				ug/L	539084	Standard
|	Cd	111	402.3	4.7	0.0624	0.010	15.5	ug/L	326	Standard
|	Cd	114	223.0	7.0	0.0395	0.003	8.0	ug/L	19	Standard
>	In	115	330576.2	0.9				ug/L	401179	Standard
>	Tb	159	439308.6	0.5				ug/L	505606	Standard
|	Ho	165	443515.2	1.6				ug/L	511576	Standard
|	Pb	208	3135.5	2.2	0.0848	0.002	1.9	ug/L	489	Standard
|	Bi	209	260599.8	0.6				ug/L	319768	Standard
|	Th	232	391290.2	0.7				ug/L	442592	Standard
|	Cr-1	52	969.7	3.6	1.4589	0.072	5.0	ug/L	35	KED
|	Cr-1	53	119.3	6.7	1.4380	0.095	6.6	ug/L	6	KED
>	Ge-1	72	7441.3	1.3				ug/L	8571	KED
|	As-2	75	121.3	5.5	2.9585	0.153	5.2	ug/L	2	KED
|	Y-1	89	13749.3	1.0				ug/L	14630	KED
|	Rh-1	103	79293.5	0.6				ug/L	94547	KED
|	Cd-1	111	8.7	46.6	0.0473	0.024	50.6	ug/L	1	KED
|	Cd-1	114	19.6	17.5	0.0385	0.007	19.3	ug/L	3	KED
>	In-1	115	8936.1	1.2				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.396
|	Cr	52		
|	Cr	53		
>	Ge	72		87.735
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-007-01c 2X

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Cd	114	
In	115	82.401
Tb	159	86.888
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	86.817
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	88.450

Quantitative Analysis - Summary Report

Sample ID: 02-007-01cD 2X

Sample Date/Time: Friday, February 04, 2022 13:06:04

Report Date/Time: Monday, February 07, 2022 15:19:18

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cD 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	509805.0	1.7				ug/L	521532	Standard
|	Cr	52	25409.9	2.0	1.5487	0.009	0.6	ug/L	6249	Standard
|	Cr	53	2192.8	0.9	1.3969	0.022	1.6	ug/L	203	Standard
[>	Ge	72	270953.9	2.1				ug/L	304319	Standard
|	As	75	7252.4	1.8	3.3326	0.029	0.9	ug/L	3809	Standard
|	As-1	75	3500.5	0.7	2.7974	0.042	1.5	ug/L	90	Standard
|	Se	77	84.7	5.6	0.3400	0.067	19.7	ug/L	59	Standard
|	Se	78	4862.2	2.1	2.5221	0.008	0.3	ug/L	4527	Standard
|	Br	79	48860.8	1.5				ug/L	169	Standard
|	Se	82	210.0	4.6	0.8021	0.084	10.5	ug/L	93	Standard
|	Kr	83	76.7	5.4				ug/L	87	Standard
|	Y	89	633545.2	1.4				ug/L	705022	Standard
|	Rh	103	434382.3	0.5				ug/L	539084	Standard
|	Cd	111	388.3	0.7	0.0514	0.000	0.6	ug/L	326	Standard
|	Cd	114	229.4	10.0	0.0397	0.005	11.4	ug/L	19	Standard
[>	In	115	338888.3	0.8				ug/L	401179	Standard
[>	Tb	159	448437.1	1.1				ug/L	505606	Standard
|	Ho	165	447932.4	1.2				ug/L	511576	Standard
|	Pb	208	3270.5	1.2	0.0870	0.002	2.6	ug/L	489	Standard
|	Bi	209	265989.5	0.9				ug/L	319768	Standard
|	Th	232	394815.9	0.6				ug/L	442592	Standard
|	Cr-1	52	1069.4	2.6	1.5651	0.057	3.6	ug/L	35	KED
|	Cr-1	53	128.3	13.4	1.5030	0.194	12.9	ug/L	6	KED
[>	Ge-1	72	7664.4	1.2				ug/L	8571	KED
|	As-2	75	126.0	11.5	2.9863	0.384	12.9	ug/L	2	KED
|	Y-1	89	14130.7	1.3				ug/L	14630	KED
|	Rh-1	103	82066.4	1.5				ug/L	94547	KED
|	Cd-1	111	6.0	60.1	0.0307	0.021	68.2	ug/L	1	KED
|	Cd-1	114	18.8	9.3	0.0355	0.005	12.8	ug/L	3	KED
[>	In-1	115	9206.1	1.6				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		97.751
|	Cr	52		
|	Cr	53		
[>	Ge	72		89.036
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-007-01cD 2X

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	Cd	114	
>	In	115	84.473
>	Tb	159	88.693
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	89.420
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	91.122

Quantitative Analysis - Summary Report

Sample ID: 02-007-01cL 10X

Sample Date/Time: Friday, February 04, 2022 13:11:43

Report Date/Time: Monday, February 07, 2022 15:19:21

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cL 10X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	493609.9	1.7				ug/L	521532	Standard
|	Cr	52	11242.4	2.8	0.4414	0.011	2.4	ug/L	6249	Standard
|	Cr	53	712.7	2.1	0.3764	0.012	3.3	ug/L	203	Standard
>	Ge	72	286163.1	0.6				ug/L	304319	Standard
|	As	75	4853.2	2.8	1.0388	0.107	10.3	ug/L	3809	Standard
|	As-1	75	924.9	3.5	0.6507	0.028	4.3	ug/L	90	Standard
|	Se	77	74.7	11.4	0.1901	0.081	42.8	ug/L	59	Standard
|	Se	78	4824.5	2.8	1.6300	0.365	22.4	ug/L	4527	Standard
|	Br	79	14168.0	1.5				ug/L	169	Standard
|	Se	82	115.0	8.8	0.1660	0.064	38.8	ug/L	93	Standard
|	Kr	83	82.7	4.6				ug/L	87	Standard
|	Y	89	638185.4	1.2				ug/L	705022	Standard
|	Rh	103	473671.5	1.0				ug/L	539084	Standard
|	Cd	111	401.6	5.0	0.0466	0.008	17.5	ug/L	326	Standard
|	Cd	114	265.0	12.8	0.0433	0.006	13.0	ug/L	19	Standard
>	In	115	360205.0	0.7				ug/L	401179	Standard
>	Tb	159	459984.7	1.1				ug/L	505606	Standard
|	Ho	165	466278.0	1.2				ug/L	511576	Standard
|	Pb	208	2092.4	1.6	0.0493	0.001	2.9	ug/L	489	Standard
|	Bi	209	283651.4	0.4				ug/L	319768	Standard
|	Th	232	405271.6	0.5				ug/L	442592	Standard
|	Cr-1	52	320.7	7.8	0.3969	0.031	7.8	ug/L	35	KED
|	Cr-1	53	35.7	8.1	0.3353	0.030	8.9	ug/L	6	KED
>	Ge-1	72	8338.8	0.9				ug/L	8571	KED
|	As-2	75	37.0	9.4	0.7690	0.082	10.6	ug/L	2	KED
|	Y-1	89	14421.9	0.9				ug/L	14630	KED
|	Rh-1	103	88646.9	0.5				ug/L	94547	KED
|	Cd-1	111	10.0	45.8	0.0485	0.024	50.0	ug/L	1	KED
|	Cd-1	114	28.9	10.9	0.0526	0.007	13.4	ug/L	3	KED
>	In-1	115	10067.9	1.0				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.646
|	Cr	52		
|	Cr	53		
>	Ge	72		94.034
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-007-01cL 10X

Report Date/Time: Monday, February 07, 2022 15:19:21

Cd	114	
In	115	89.787
Tb	159	90.977
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.288
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.652

Quantitative Analysis - Summary Report

Sample ID: 02-007-01cMS 2X

Sample Date/Time: Friday, February 04, 2022 13:17:22

Report Date/Time: Monday, February 07, 2022 15:19:23

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cMS 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	520310.3	1.4				ug/L	521532	Standard
|	Cr	52	618964.8	2.4	48.1701	0.527	1.1	ug/L	6249	Standard
|	Cr	53	69930.8	2.3	47.8485	0.424	0.9	ug/L	203	Standard
[>	Ge	72	272970.4	3.2				ug/L	304319	Standard
|	As	75	69078.4	1.9	56.2703	0.792	1.4	ug/L	3809	Standard
|	As-1	75	68351.7	2.1	55.4248	0.729	1.3	ug/L	90	Standard
|	Se	77	5102.9	2.9	53.4002	0.189	0.4	ug/L	59	Standard
|	Se	78	22072.7	1.6	54.2388	1.309	2.4	ug/L	4527	Standard
|	Br	79	59571.6	0.3				ug/L	169	Standard
|	Se	82	8363.4	2.3	51.6582	1.112	2.2	ug/L	93	Standard
|	Kr	83	75.7	4.6				ug/L	87	Standard
|	Y	89	632847.2	1.6				ug/L	705022	Standard
|	Rh	103	431861.0	1.7				ug/L	539084	Standard
|	Cd	111	115095.1	1.1	52.0792	0.540	1.0	ug/L	326	Standard
|	Cd	114	281381.4	0.4	52.0400	0.203	0.4	ug/L	19	Standard
[>	In	115	340674.0	0.6				ug/L	401179	Standard
[>	Tb	159	449073.7	0.8				ug/L	505606	Standard
|	Ho	165	456862.9	0.7				ug/L	511576	Standard
|	Pb	208	1638226.2	1.0	50.1343	0.440	0.9	ug/L	489	Standard
|	Bi	209	266495.5	1.7				ug/L	319768	Standard
|	Th	232	400055.9	1.7				ug/L	442592	Standard
|	Cr-1	52	35894.4	1.7	54.5236	1.286	2.4	ug/L	35	KED
|	Cr-1	53	4353.3	1.2	53.6545	0.873	1.6	ug/L	6	KED
[>	Ge-1	72	7600.0	1.4				ug/L	8571	KED
|	As-2	75	2297.9	2.5	55.7657	2.204	4.0	ug/L	2	KED
|	Y-1	89	13892.8	1.2				ug/L	14630	KED
|	Rh-1	103	81916.2	1.1				ug/L	94547	KED
|	Cd-1	111	9224.0	1.3	51.5055	0.553	1.1	ug/L	1	KED
|	Cd-1	114	23370.2	1.6	51.5613	0.726	1.4	ug/L	3	KED
[>	In-1	115	9338.0	0.3				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		99.766
|	Cr	52		
|	Cr	53		
[>	Ge	72		89.699
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-007-01cMS 2X

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Cd	114	
In	115	84.918
Tb	159	88.819
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	88.669
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	92.428

Quantitative Analysis - Summary Report

Sample ID: 02-007-01cMSD 2X

Sample Date/Time: Friday, February 04, 2022 13:23:01

Report Date/Time: Monday, February 07, 2022 15:19:27

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cMSD 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	523884.3	1.1				ug/L	521532	Standard
|	Cr	52	621762.0	1.9	48.0596	0.562	1.2	ug/L	6249	Standard
|	Cr	53	70462.4	2.6	47.8828	0.794	1.7	ug/L	203	Standard
>	Ge	72	274395.1	1.2				ug/L	304319	Standard
|	As	75	70016.9	2.7	56.7397	0.897	1.6	ug/L	3809	Standard
|	As-1	75	69138.6	2.0	55.7547	0.556	1.0	ug/L	90	Standard
|	Se	77	5225.0	1.7	54.3988	0.322	0.6	ug/L	59	Standard
|	Se	78	22389.9	3.2	54.8076	1.323	2.4	ug/L	4527	Standard
|	Br	79	58533.3	1.3				ug/L	169	Standard
|	Se	82	8419.5	0.9	51.7214	0.534	1.0	ug/L	93	Standard
|	Kr	83	84.7	0.7				ug/L	87	Standard
|	Y	89	640450.3	2.4				ug/L	705022	Standard
|	Rh	103	440606.5	0.9				ug/L	539084	Standard
|	Cd	111	118002.5	0.7	52.2486	0.329	0.6	ug/L	326	Standard
|	Cd	114	287054.7	1.2	51.9467	0.180	0.3	ug/L	19	Standard
>	In	115	348163.6	1.2				ug/L	401179	Standard
>	Tb	159	457078.5	0.5				ug/L	505606	Standard
|	Ho	165	468208.9	1.1				ug/L	511576	Standard
|	Pb	208	1677864.1	0.6	50.4483	0.371	0.7	ug/L	489	Standard
|	Bi	209	274065.0	0.6				ug/L	319768	Standard
|	Th	232	406145.3	1.1				ug/L	442592	Standard
|	Cr-1	52	36460.5	0.1	54.0984	0.292	0.5	ug/L	35	KED
|	Cr-1	53	4489.7	0.4	54.0557	0.524	1.0	ug/L	6	KED
>	Ge-1	72	7779.5	0.6				ug/L	8571	KED
|	As-2	75	2344.5	0.6	55.5654	0.213	0.4	ug/L	2	KED
|	Y-1	89	14456.6	1.3				ug/L	14630	KED
|	Rh-1	103	83025.6	0.1				ug/L	94547	KED
|	Cd-1	111	9366.1	0.6	52.0111	1.095	2.1	ug/L	1	KED
|	Cd-1	114	23763.6	1.5	52.1437	1.476	2.8	ug/L	3	KED
>	In-1	115	9392.1	1.7				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.451
|	Cr	52		
|	Cr	53		
>	Ge	72		90.167
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-007-01cMSD 2X

Report Date/Time: Monday, February 07, 2022 15:19:27

Cd	114	
In	115	86.785
Tb	159	90.402
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	90.762
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	92.963

Quantitative Analysis - Summary Report

Sample ID: 02-007-01cPS 2X

Sample Date/Time: Friday, February 04, 2022 13:28:40

Report Date/Time: Monday, February 07, 2022 15:19:29

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\02-007-01cPS 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	521074.1	1.4				ug/L	521532	Standard
|	Cr	52	488089.8	3.1	37.8243	0.774	2.0	ug/L	6249	Standard
|	Cr	53	55048.2	1.8	37.5821	0.205	0.5	ug/L	203	Standard
[>	Ge	72	274144.3	2.7				ug/L	304319	Standard
|	As	75	56545.6	1.5	45.3199	0.619	1.4	ug/L	3809	Standard
|	As-1	75	55029.7	1.5	44.4165	0.552	1.2	ug/L	90	Standard
|	Se	77	4139.3	3.0	43.0171	0.148	0.3	ug/L	59	Standard
|	Se	78	18598.8	1.2	43.5350	1.071	2.5	ug/L	4527	Standard
|	Br	79	53135.7	2.0				ug/L	169	Standard
|	Se	82	6636.5	1.4	40.7070	0.820	2.0	ug/L	93	Standard
|	Kr	83	79.0	28.0				ug/L	87	Standard
|	Y	89	644487.8	0.7				ug/L	705022	Standard
[	Rh	103	441515.1	0.6				ug/L	539084	Standard
|	Cd	111	91519.5	0.4	40.8660	0.051	0.1	ug/L	326	Standard
|	Cd	114	224968.7	1.0	41.0842	0.236	0.6	ug/L	19	Standard
[>	In	115	344993.0	0.4				ug/L	401179	Standard
[>	Tb	159	453358.1	0.5				ug/L	505606	Standard
|	Ho	165	458577.8	0.5				ug/L	511576	Standard
|	Pb	208	1308830.0	0.9	39.6716	0.193	0.5	ug/L	489	Standard
|	Bi	209	272718.3	0.9				ug/L	319768	Standard
|	Th	232	403388.6	0.9				ug/L	442592	Standard
[	Cr-1	52	28092.3	1.6	42.0324	0.527	1.3	ug/L	35	KED
|	Cr-1	53	3441.7	1.6	41.7927	1.304	3.1	ug/L	6	KED
[>	Ge-1	72	7713.1	1.8				ug/L	8571	KED
|	As-2	75	1831.1	1.9	43.7789	1.581	3.6	ug/L	2	KED
|	Y-1	89	13958.2	2.0				ug/L	14630	KED
|	Rh-1	103	82895.1	0.4				ug/L	94547	KED
[	Cd-1	111	7161.5	1.0	40.0468	0.503	1.3	ug/L	1	KED
|	Cd-1	114	17920.4	0.2	39.5940	0.182	0.5	ug/L	3	KED
[>	In-1	115	9324.7	0.7				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		99.912
|	Cr	52		
|	Cr	53		
[>	Ge	72		90.084
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

Sample ID: 02-007-01cPS 2X

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—	Cd	114	
↳	In	115	85.995
↳	Tb	159	89.666
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	89.988
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	92.296

Quantitative Analysis - Summary Report

Sample ID: 02-050-01j 2X

Sample Date/Time: Friday, February 04, 2022 13:34:35

Report Date/Time: Monday, February 07, 2022 15:19:30

Method File: C:\NexlONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220204B\02-050-01j 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	566873.1	1.9				ug/L	521532	Standard
|	Cr	52	23433.2	2.5	1.2010	0.038	3.1	ug/L	6249	Standard
|	Cr	53	2454.5	1.9	1.4071	0.034	2.4	ug/L	203	Standard
>	Ge	72	295786.9	3.8				ug/L	304319	Standard
|	As	75	7162.1	2.1	2.7379	0.124	4.5	ug/L	3809	Standard
|	As-1	75	3326.1	3.7	2.4260	0.031	1.3	ug/L	90	Standard
|	Se	77	79.3	16.6	0.2097	0.108	51.6	ug/L	59	Standard
|	Se	78	4751.8	1.4	0.9861	0.352	35.7	ug/L	4527	Standard
|	Br	79	20161.6	2.6				ug/L	169	Standard
|	Se	82	128.3	12.6	0.2186	0.064	29.4	ug/L	93	Standard
|	Kr	83	88.0	8.6				ug/L	87	Standard
|	Y	89	671478.5	0.6				ug/L	705022	Standard
|	Rh	103	489594.8	1.2				ug/L	539084	Standard
|	Cd	111	395.0	2.5	0.0362	0.006	16.2	ug/L	326	Standard
|	Cd	114	344.9	4.7	0.0546	0.002	4.2	ug/L	19	Standard
>	In	115	377187.6	1.1				ug/L	401179	Standard
>	Tb	159	488468.7	0.2				ug/L	505606	Standard
|	Ho	165	497946.4	0.4				ug/L	511576	Standard
|	Pb	208	12594.5	1.0	0.3411	0.003	0.8	ug/L	489	Standard
|	Bi	209	300884.4	0.9				ug/L	319768	Standard
|	Th	232	435417.6	0.8				ug/L	442592	Standard
|	Cr-1	52	1014.4	3.3	1.3207	0.038	2.9	ug/L	35	KED
|	Cr-1	53	135.0	15.6	1.4132	0.240	17.0	ug/L	6	KED
>	Ge-1	72	8566.2	0.7				ug/L	8571	KED
|	As-2	75	122.7	11.1	2.5913	0.279	10.7	ug/L	2	KED
|	Y-1	89	15021.6	2.2				ug/L	14630	KED
|	Rh-1	103	90097.9	1.2				ug/L	94547	KED
|	Cd-1	111	11.7	32.5	0.0561	0.019	33.2	ug/L	1	KED
|	Cd-1	114	20.5	14.3	0.0350	0.007	18.9	ug/L	3	KED
>	In-1	115	10192.9	1.5				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.694
|	Cr	52		
|	Cr	53		
>	Ge	72		97.196
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-050-01j 2X

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—	Cd	114	
└┘	In	115	94.020
└┘	Tb	159	96.611
—	Ho	165	
—	Pb	208	
—	Bi	209	
└┘	Th	232	
—	Cr-1	52	
—	Cr-1	53	
└┘	Ge-1	72	99.942
└┘	As-2	75	
—	Y-1	89	
└┘	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
└┘	In-1	115	100.889

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 04, 2022 13:40:14

Report Date/Time: Monday, February 07, 2022 15:19:33

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	527095.8	1.4				ug/L	521532	Standard
|	Cr	52	538894.8	1.6	41.3347	0.428	1.0	ug/L	6249	Standard
|	Cr	53	60941.7	1.6	41.1487	0.729	1.8	ug/L	203	Standard
[>	Ge	72	313252.0	2.6				ug/L	304319	Standard
|	As	75	58123.4	2.0	40.4697	0.316	0.8	ug/L	3809	Standard
|	As-1	75	56852.5	2.2	40.1474	0.369	0.9	ug/L	90	Standard
|	Se	77	4438.0	1.2	40.3415	0.576	1.4	ug/L	59	Standard
|	Se	78	19826.8	1.2	39.7923	0.721	1.8	ug/L	4527	Standard
|	Br	79	1832.1	13.3				ug/L	169	Standard
|	Se	82	7231.5	1.9	38.7899	0.614	1.6	ug/L	93	Standard
|	Kr	83	96.0	7.9				ug/L	87	Standard
|	Y	89	703140.7	1.7				ug/L	705022	Standard
|	Rh	103	528565.1	1.1				ug/L	539084	Standard
|	Cd	111	105089.9	0.8	40.5196	0.285	0.7	ug/L	326	Standard
|	Cd	114	258374.8	1.1	40.7440	0.189	0.5	ug/L	19	Standard
[>	In	115	399543.3	1.3				ug/L	401179	Standard
[>	Tb	159	515926.6	0.6				ug/L	505606	Standard
|	Ho	165	522214.9	0.4				ug/L	511576	Standard
|	Pb	208	1527195.8	0.7	40.6775	0.159	0.4	ug/L	489	Standard
|	Bi	209	326575.1	1.4				ug/L	319768	Standard
|	Th	232	452135.1	0.2				ug/L	442592	Standard
|	Cr-1	52	31483.3	0.3	39.5497	0.576	1.5	ug/L	35	KED
|	Cr-1	53	3880.5	2.0	39.5431	0.265	0.7	ug/L	6	KED
[>	Ge-1	72	9187.0	1.7				ug/L	8571	KED
|	As-2	75	2018.5	3.7	40.4859	0.803	2.0	ug/L	2	KED
|	Y-1	89	15773.7	2.4				ug/L	14630	KED
|	Rh-1	103	99813.5	1.1				ug/L	94547	KED
|	Cd-1	111	8302.7	0.2	39.8646	0.594	1.5	ug/L	1	KED
|	Cd-1	114	21197.1	1.0	40.2153	0.906	2.3	ug/L	3	KED
[>	In-1	115	10861.2	1.3				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		101.067
|	Cr	52	103.337	
|	Cr	53	102.872	
[>	Ge	72		102.935
|	As	75	101.174	
|	As-1	75	100.368	
	Se	77	100.854	
	Se	78	99.481	
	Br	79		
	Se	82	96.975	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	101.299	

Sample ID: QC Std 6

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Cd	114	101.860	
In	115		99.592
Tb	159		102.041
Ho	165		
Pb	208	101.694	
Bi	209		
Th	232		
Cr-1	52	98.874	
Cr-1	53	98.858	
Ge-1	72		107.184
As-2	75	101.215	
Y-1	89		
Rh-1	103		
Cd-1	111	99.662	
Cd-1	114	100.538	
In-1	115		107.504

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 04, 2022 13:45:54

Report Date/Time: Monday, February 07, 2022 15:19:35

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	512796.2	2.0				ug/L	521532	Standard
|	Cr	52	258087.6	1.9	20.0991	0.029	0.1	ug/L	6249	Standard
|	Cr	53	28843.4	2.6	19.9438	0.187	0.9	ug/L	203	Standard
[>	Ge	72	304026.4	3.4				ug/L	304319	Standard
|	As	75	29734.7	2.1	19.9539	0.511	2.6	ug/L	3809	Standard
|	As-1	75	27183.7	2.1	19.7541	0.579	2.9	ug/L	90	Standard
|	Se	77	2128.5	5.8	19.6451	0.914	4.7	ug/L	59	Standard
|	Se	78	11919.6	2.7	19.9947	0.224	1.1	ug/L	4527	Standard
|	Br	79	964.4	7.4				ug/L	169	Standard
|	Se	82	3535.4	1.2	19.2888	0.469	2.4	ug/L	93	Standard
|	Kr	83	96.3	2.2				ug/L	87	Standard
|	Y	89	678810.6	1.7				ug/L	705022	Standard
|	Rh	103	509332.5	1.0				ug/L	539084	Standard
|	Cd	111	49938.2	1.0	19.7802	0.413	2.1	ug/L	326	Standard
|	Cd	114	122430.3	0.3	19.8951	0.198	1.0	ug/L	19	Standard
[>	In	115	387716.2	1.2				ug/L	401179	Standard
[>	Tb	159	496580.1	1.6				ug/L	505606	Standard
|	Ho	165	500035.8	0.4				ug/L	511576	Standard
|	Pb	208	722587.3	0.6	19.9917	0.201	1.0	ug/L	489	Standard
|	Bi	209	315195.3	0.2				ug/L	319768	Standard
|	Th	232	435859.9	0.3				ug/L	442592	Standard
|	Cr-1	52	15256.1	0.9	19.5117	0.210	1.1	ug/L	35	KED
|	Cr-1	53	1782.4	0.7	18.4828	0.076	0.4	ug/L	6	KED
[>	Ge-1	72	9011.5	0.9				ug/L	8571	KED
|	As-2	75	971.7	0.9	19.8491	0.205	1.0	ug/L	2	KED
|	Y-1	89	15381.6	1.1				ug/L	14630	KED
|	Rh-1	103	96149.8	0.7				ug/L	94547	KED
|	Cd-1	111	4055.9	1.1	19.8568	0.259	1.3	ug/L	1	KED
|	Cd-1	114	9850.9	1.2	19.0535	0.259	1.4	ug/L	3	KED
[>	In-1	115	10649.7	0.3				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		98.325
|	Cr	52	100.496	
|	Cr	53	99.719	
[>	Ge	72		99.904
|	As	75	99.770	
|	As-1	75	98.771	
|	Se	77	98.225	
|	Se	78	99.974	
|	Br	79		
|	Se	82	96.444	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	98.901	

Sample ID: QC Std 7

Report Date/Time: Monday, February 07, 2022 15:19:35

Page 1

Cd	114	99.475	
In	115		96.644
Tb	159		98.215
Ho	165		
Pb	208	99.958	
Bi	209		
Th	232		
Cr-1	52	97.559	
Cr-1	53	92.414	
Ge-1	72		105.137
As-2	75	99.245	
Y-1	89		
Rh-1	103		
Cd-1	111	99.284	
Cd-1	114	95.267	
In-1	115		105.411

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, February 04, 2022 13:51:33

Report Date/Time: Monday, February 07, 2022 15:19:37

Method File: C:\NexIONData_kmckinney\Method\X220204B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204B\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	546012.8	2.0				ug/L	521532	Standard
|	Cr	52	6628.2	4.0	0.0064	0.013	205.2	ug/L	6249	Standard
|	Cr	53	215.0	11.2	0.0012	0.013	1072.2	ug/L	203	Standard
>	Ge	72	324580.7	2.1				ug/L	304319	Standard
|	As	75	4043.9	3.7	-0.0143	0.055	385.6	ug/L	3809	Standard
|	As-1	75	88.0	23.3	-0.0054	0.014	264.9	ug/L	90	Standard
|	Se	77	65.3	13.9	0.0173	0.068	394.6	ug/L	59	Standard
|	Se	78	4800.5	3.6	-0.0720	0.217	301.9	ug/L	4527	Standard
|	Br	79	681.3	7.5				ug/L	169	Standard
|	Se	82	93.0	9.4	-0.0303	0.049	161.9	ug/L	93	Standard
|	Kr	83	79.3	7.4				ug/L	87	Standard
|	Y	89	725132.9	0.9				ug/L	705022	Standard
|	Rh	103	534413.5	0.4				ug/L	539084	Standard
|	Cd	111	310.4	4.5	-0.0089	0.005	55.4	ug/L	326	Standard
|	Cd	114	17.4	43.3	-0.0003	0.001	342.4	ug/L	19	Standard
>	In	115	410828.6	0.8				ug/L	401179	Standard
>	Tb	159	526147.6	1.1				ug/L	505606	Standard
|	Ho	165	526016.1	0.7				ug/L	511578	Standard
|	Pb	208	548.7	6.4	0.0010	0.001	76.8	ug/L	489	Standard
|	Bi	209	329742.0	1.0				ug/L	319768	Standard
|	Th	232	457212.3	0.2				ug/L	442592	Standard
|	Cr-1	52	48.3	4.3	0.0124	0.002	17.0	ug/L	35	KED
|	Cr-1	53	4.3	58.1	-0.0221	0.026	116.0	ug/L	6	KED
>	Ge-1	72	9369.7	1.2				ug/L	8571	KED
|	As-2	75	0.7	86.6	-0.0372	0.011	30.4	ug/L	2	KED
|	Y-1	89	16274.3	0.4				ug/L	14630	KED
|	Rh-1	103	101534.2	0.8				ug/L	94547	KED
|	Cd-1	111	3.3	45.8	0.0120	0.007	59.8	ug/L	1	KED
|	Cd-1	114	3.6	45.7	0.0001	0.003	3034.3	ug/L	3	KED
>	In-1	115	11269.1	0.9				ug/L	10103	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.694
|	Cr	52		
|	Cr	53		
>	Ge	72		106.658
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, February 07, 2022 15:19:37

---	Cd	114	
└┘	In	115	102.405
└┘	Tb	159	104.063
---	Ho	165	
---	Pb	208	
---	Bi	209	
---	Th	232	
---	Cr-1	52	
---	Cr-1	53	
└┘	Ge-1	72	109.316
---	As-2	75	
---	Y-1	89	
---	Rh-1	103	
---	Cd-1	111	
---	Cd-1	114	
└┘	In-1	115	111.542

Dissolved Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\I220204D1.wszf

Creation Date: 2/4/2022 10:19:17 AM

Comment:

J. Badger
2/9/22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/04/22 01:15:15 pm	0.00000	77	10.82			N/A
Standard #1	STD	02/04/22 01:17:47 pm	0.01000	234	3.26	10.11%		N/A
Standard #2	STD	02/04/22 01:20:19 pm	0.05000	838	4.52	6.18%		N/A
Standard #3	STD	02/04/22 01:22:51 pm	0.50000	8175	3.38	12.99%		N/A
Standard #4	STD	02/04/22 01:25:23 pm	2.50000	39057	3.33	8.77%		N/A
Standard #5	STD	02/04/22 01:27:55 pm	5.00000	70086	0.22	-2.32%		N/A

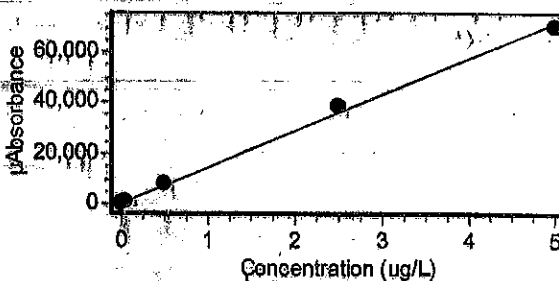
Calibration

Equation: Abs = 14334.880x + 76.605

R2: 0.99685 RSE: 11.43%

SEE: 2122.8550

Flags:

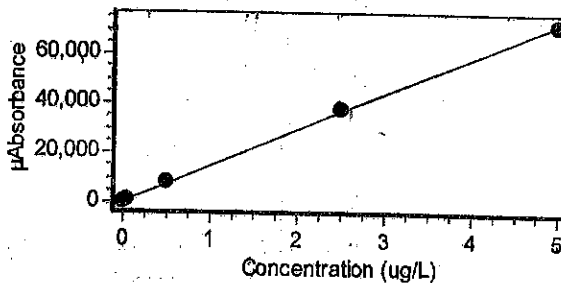


ICV	ICV	02/04/22 01:31:09 pm	2.70130	38799	2.56			108.05
ICB	ICB	02/04/22 01:33:41 pm	-0.00189	50	38.69			N/A
CCV	CCV	02/04/22 01:36:13 pm	2.75770	39608	0.72			110.31
CCB	CCB	02/04/22 01:38:45 pm	-0.00178	51	17.27			N/A
MB0128F1	UNK	02/04/22 01:41:16 pm	0.00419	137	13.78			N/A
SB0128F1	UNK	02/04/22 01:43:48 pm	2.29700	33004	0.50			N/A
01-246-01e	UNK	02/04/22 01:46:20 pm	0.00281	117	15.15			N/A
01-246-01e D	UNK	02/04/22 01:48:52 pm	0.00460	143	9.37			N/A
01-246-01e L	UNK	02/04/22 01:51:24 pm	0.00423	137	17.90			N/A
01-246-01e MS	UNK	02/04/22 01:53:57 pm	2.50110	35930	0.56			N/A
01-246-01e MSD	UNK	02/04/22 01:56:29 pm	2.35940	33899	0.57			N/A
MB0201F1	UNK	02/04/22 01:59:02 pm	0.00268	115	40.85			N/A
SB0201F1	UNK	02/04/22 02:01:34 pm	2.27560	32697	0.40			N/A
02-007-01d	UNK	02/04/22 02:04:06 pm	0.00322	128	25.15			N/A
CCV	CCV	02/04/22 02:06:38 pm	2.58060	37070	0.49			103.23
CCB	CCB	02/04/22 02:09:09 pm	0.00002	76	367.68			N/A
02-050-01k	UNK	02/04/22 02:11:41 pm	0.00432	139	6.16			N/A
MB0204W1	UNK	02/04/22 02:27:56 pm	0.00099	91	23.65			N/A
SB0204W1 x2	UNK	02/04/22 02:30:28 pm	2.47600	35570	0.82			N/A
02-042-04e	UNK	02/04/22 02:33:00 pm	0.44431	6446	0.69			N/A
02-042-04e D	UNK	02/04/22 02:35:33 pm	0.39697	5753	0.38			N/A
02-042-04e L	UNK	02/04/22 02:38:05 pm	0.09783	1479	1.66			N/A

Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
02-042-04e MS x2	UNK	02/04/22 02:40:37 pm	2.60130	37366	2.93			N/A
02-042-04e MSD x2	UNK	02/04/22 02:43:10 pm	2.50390	35970	0.28			N/A
02-042-11e	UNK	02/04/22 02:45:43 pm	0.23450	3438	1.38			N/A
02-042-20e	UNK	02/04/22 02:48:15 pm	0.34675	5047	4.48			N/A
CCV	CCV	02/04/22 02:50:47 pm	2.62670	37730	0.72			105.07
CCB	CCB	02/04/22 02:53:19 pm	-0.00075	66	162.22			N/A
02-007-01c	UNK	02/04/22 02:55:51 pm	0.00436	139	21.50			N/A
02-050-01j	UNK	02/04/22 02:58:23 pm	0.00589	161	14.79			N/A
CCV	CCV	02/04/22 03:00:55 pm	2.85570	38145	0.57			106.23
CCB	CCB	02/04/22 03:03:27 pm	0.00033	81	142.88			N/A
MDL 1	UNK	02/04/22 03:07:20 pm	0.01524	295	2.95			N/A
MDL 2	UNK	02/04/22 03:09:52 pm	0.01481	289	2.89			N/A
MDL 3	UNK	02/04/22 03:12:24 pm	0.01419	280	11.55			N/A
MDL 4	UNK	02/04/22 03:14:56 pm	0.01710	322	2.62			N/A
MDL 5	UNK	02/04/22 03:17:28 pm	0.01518	294	2.64			N/A
MDL 6	UNK	02/04/22 03:20:01 pm	-0.01522	295	2.99			N/A
MDL 7	UNK	02/04/22 03:22:34 pm	0.01389	276	5.14			N/A
MDL 8	UNK	02/04/22 03:25:05 pm	-0.00152	55	29.29			N/A
MDL 9	UNK	02/04/22 03:27:37 pm	-0.00112	61	79.26			N/A
CCV	CCV	02/04/22 03:30:09 pm	0.03336	555	6.45		Q	1.33
Calibration Blank	STD	02/04/22 03:32:48 pm	0.00000	18	120.67			N/A
Standard #1 (0.01)	STD	02/04/22 03:35:19 pm	0.01000	123	20.72	0.00%		N/A
Calibration Blank	STD	02/04/22 03:48:40 pm	0.00000	-93	22.89			N/A
Standard #1 (0.01)	STD	02/04/22 03:51:12 pm	0.01000	236	3.54	124.85%		N/A
Standard #2 (0.05)	STD	02/04/22 03:53:44 pm	0.05000	824	0.75	25.52%		N/A
Standard #3 (0.5)	STD	02/04/22 03:56:16 pm	0.50000	7783	0.23	7.90%		N/A
Standard #4 (2.5)	STD	02/04/22 03:58:48 pm	2.50000	37915	0.72	4.14%		N/A
Standard #5 (5)	STD	02/04/22 04:01:21 pm	5.00000	72081	0.55	-1.12%		N/A

Calibration

Equation: Abs = 14598.026x + -92.530
R2: 0.99913 RSE: 73.76%
SEE: 1067.4210
Flags:



ICV	ICV	02/04/22 04:04:31 pm	2.55140	37153	0.38			102.06
ICB	ICB	02/04/22 04:07:03 pm	0.00837	30	9.18			N/A
CCV	CCV	02/04/22 04:09:35 pm	2.64520	38522	0.75			105.81
CCB	CCB	02/04/22 04:17:37 pm	0.01036	59	13.78			N/A
MDL 1	UNK	02/04/22 04:20:09 pm	0.02646	294	3.33			N/A
MDL 2	UNK	02/04/22 04:22:41 pm	0.02659	296	2.04			N/A
MDL 3	UNK	02/04/22 04:25:12 pm	0.02558	281	1.98			N/A



KB 2/4/22

Summary

Worksheet Name	B220204B.esws	Created Date/Time (local)	2/4/2022 9:40:25 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	2/4/2022 5:40:25 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B220204B.esws		

Notes



Results

Solution Label	Mn (257.610 nm)
Blank	0.00 (ppb)
Standard 5	10.00 (ppb)
Standard 4	100.00 (ppb)
Standard 3	1000.00 (ppb)
Standard 2	2500.00 (ppb)
Standard 1	5000.00 (ppb)
SI 100	
SI 1000	
SI 5000	
ICV	1029.28 (ppb)
ICB	-0.09 u (ppb)
LLV	10.48 (ppb)
CCV	1007.75 (ppb)
CCB	-0.02 u (ppb)
ICSA	1.67 (ppb)
ICSAB	435.20 (ppb)
MB0204TM1	1.22 (ppb)
SB0204TM1	0.96 (ppb)
01-236-18	121.94 (ppb)
01-236-18 D	119.48 (ppb)
01-236-18 L	25.15 (ppb)
01-236-18 MS	117.50 (ppb)
01-236-18 MSD	119.47 (ppb)
01-236-19	94.34 (ppb)
CCV	992.80 (ppb)
CCB	0.02 u (ppb)
01-159-02	12.26 (ppb)
01-236-19(Bott.)	197.96 (ppb)
MB0201F1	-0.07 u (ppb)
SB0201F1 X 1.11	475.78 (ppb)
02-007-01d X 1.11	2260.66 (ppb)
MB0204D1	-0.04 u (ppb)
SB0204D1 X 1.11	468.64 (ppb)
02-050-01k X 1.11	237.46 (ppb)
02-050-01k D X 1.11	241.97 (ppb)

Test Report



Agilent Technologies

Solution Label	Mn (257.610 nm)
02-050-01k L	47.61 (ppb)
CCV	1015.51 (ppb)
CCB	0.00 u (ppb)
02-050-01k MS X 1.11	709.96 (ppb)
02-050-01k MSD X 1.11	709.71 (ppb)
MB0204SM2	1.70 (ppb)
SB0204SM2	8.93 (ppb)
02-042-24a	6211.83 o (ppb)
02-042-24a D	5700.68 o (ppb)
02-042-24a L	1274.64 (ppb)
02-042-24a MS	5613.35 o (ppb)
02-042-24a MSD	5210.82 (ppb)
02-060-01	4461.84 (ppb)
CCV	1008.70 (ppb)
CCB	0.03 u (ppb)
02-060-02	5849.11 o (ppb)
02-061-01	9193.98 o (ppb)
02-061-02	11186.52 o (ppb)
02-011-01a	13787.38 o (ppb)
02-041-01	5665.16 o (ppb)
02-046-01	13470.00 o (ppb)
02-042-22a	5293.21 (ppb)
02-042-23a	5098.01 (ppb)
MB0204SM1	10.41 (ppb)
SB0204SM1	4.22 (ppb)
CCV	1017.31 (ppb)
CCB	0.01 u (ppb)
02-051-01	4529.69 (ppb)
02-051-01 D	4303.51 (ppb)
02-051-01 L	931.30 (ppb)
02-051-01 MS	4177.60 (ppb)
02-051-01 MSD	3481.93 (ppb)
02-051-02	14635.89 o (ppb)
02-052-01	3897.30 (ppb)

Dataset Report

2-7-22
kom

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220204A\
Report Date/Time: Monday, February 07, 2022 15:17:23

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - TTorch Alignment		07:33:04 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Torch Alignment.001	
SmartTune - TTorch Alignment		07:35:40 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Torch Alignment.002	
SmartTune - NBulizer Gas Flow S		07:36:47 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Nebulizer Gas Flow STD-KF	
SmartTune - AAutoLens STD/DRC		07:38:55 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\AutoLens STD-DRC.004	
SmartTune - KKED Mode AutoLens		07:43:29 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\KED Mode AutoLens.005	
SmartTune - CDaily Performance Ch		07:48:07 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Daily Performance Check.01	
SmartTune - MMass Calibration and		07:50:42 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Mass Calibration and Resol	
SmartTune - MMass Calibration and		07:52:53 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Mass Calibration and Resol	
	Sample	07:59:40 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Sample.009	
	Sample	08:05:20 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Sample.010	
	Sample	08:10:59 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Sample.011	
	Sample	08:16:38 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\Sample.012	
	Blank	08:22:36 Fri 04-Fel	Blank	C:\NexIONData_kmckinney\DataSet\X220204A\Blank.013	
	Standard 1	08:27:25 Fri 04-Fel	Standard #1	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 1.014	
	Standard 2	08:32:14 Fri 04-Fel	Standard #2	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 2.015	
	Standard 3	08:37:03 Fri 04-Fel	Standard #3	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 3.016	
	Standard 4	08:41:53 Fri 04-Fel	Standard #4	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 4.017	
	Standard 5	08:46:42 Fri 04-Fel	Standard #5	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 5.018	
	Standard 6	08:51:31 Fri 04-Fel	Standard #6	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 6.019	
	Standard 7	08:56:22 Fri 04-Fel	Standard #7	C:\NexIONData_kmckinney\DataSet\X220204A\Standard 7.020	
	QC Std 1	09:02:01 Fri 04-Fel	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 1.021	
	QC Std 2	09:07:41 Fri 04-Fel	QC Std #2	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 2.022	
	QC std 6	09:18:32 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\QC std 6.024	
	QC std 7	09:24:11 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\QC std 7.025	
	QC std 8	09:29:51 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\QC std 8.026	
	MB0201F1 2X	09:35:30 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\MB0201F1 2X.027	
	SB0201F1 2X	09:41:09 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\SB0201F1 2X.028	
	02-007-01d 2X	09:46:48 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01d 2X.029	
	02-050-01k 2X	09:52:26 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-050-01k 2X.030	
	02-007-01dD 2X	09:59:28 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dD 2X.031	
	02-007-01dL 10X	10:05:06 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dL 10X.032	
	02-007-01dMS 2X	10:10:45 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dMS 2X.033	
	02-007-01dMSD 2X	10:16:24 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dMSD 2X.034	
	QC Std 6	10:22:03 Fri 04-Fel	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 6.035	
	QC Std 7	10:27:43 Fri 04-Fel	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 7.036	
	QC Std 8	10:33:23 Fri 04-Fel	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 8.037	
	02-012-01d 2X	10:38:49 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-012-01d 2X.038	
	02-012-02d 2X	10:44:28 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-012-02d 2X.039	
	02-012-03d 2X	10:50:07 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-012-03d 2X.040	
	02-012-04d 2X	10:55:45 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-012-04d 2X.041	
	02-012-05d 2X	11:01:24 Fri 04-Fel	Sample	C:\NexIONData_kmckinney\DataSet\X220204A\02-012-05d 2X.042	
	QC Std 6	11:07:03 Fri 04-Fel	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 6.043	
	QC Std 7	11:12:42 Fri 04-Fel	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 7.044	
	QC Std 8	11:18:22 Fri 04-Fel	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 8.045	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, February 04, 2022 08:22:36

Report Date/Time: Monday, February 07, 2022 15:16:13

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Blank.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	507512.5	1.8				ug/L		Standard
|	Cr	52	5032.2	4.0				ug/L		Standard
|	Cr	53	182.7	12.8				ug/L		Standard
>	Ge	72	285367.7	2.3				ug/L		Standard
|	As	75	3289.0	2.6				ug/L		Standard
|	As-1	75	101.2	12.0				ug/L		Standard
|	Se	77	57.3	23.2				ug/L		Standard
|	Se	78	3912.5	3.3				ug/L		Standard
|	Br	79	650.0	2.0				ug/L		Standard
|	Se	82	92.3	8.1				ug/L		Standard
|	Kr	83	94.3	16.8				ug/L		Standard
|	Y	89	723820.4	0.2				ug/L		Standard
|	Rh	103	571558.4	2.5				ug/L		Standard
|	Cd	111	356.0	8.7				ug/L		Standard
|	Cd	114	17.5	29.5				ug/L		Standard
>	In	115	429736.3	0.8				ug/L		Standard
>	Tb	159	524851.7	0.5				ug/L		Standard
|	Ho	165	525400.3	1.1				ug/L		Standard
|	Pb	208	327.3	1.0				ug/L		Standard
|	Bi	209	321895.9	0.5				ug/L		Standard
|	Th	232	442877.7	0.7				ug/L		Standard
|	Cr-1	52	7.7	27.2				ug/L		KED
|	Cr-1	53	1.7	34.6				ug/L		KED
>	Ge-1	72	7398.2	2.8				ug/L		KED
|	As-2	75	1.3	43.3				ug/L		KED
|	Y-1	89	12815.7	1.7				ug/L		KED
|	Rh-1	103	85106.8	0.4				ug/L		KED
|	Cd-1	111	1.7	69.3				ug/L		KED
|	Cd-1	114	2.4	46.2				ug/L		KED
>	In-1	115	7769.7	1.8				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Monday, February 07, 2022 15:16:13

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, February 04, 2022 08:27:25

Report Date/Time: Monday, February 07, 2022 15:16:17

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 1.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	396622.5	1.8				ug/L	507512	Standard
|	Cr	52	7411.9	2.8				ug/L	5032	Standard
|	Cr	53	484.3	0.7				ug/L	183	Standard
>	Ge	72	231194.5	1.8				ug/L	285368	Standard
|	As	75	3290.4	1.7				ug/L	3289	Standard
|	As-1	75	328.5	6.6	0.2000	0.021	10.5	ug/L	101	Standard
|	Se	77	62.0	10.6				ug/L	57	Standard
|	Se	78	3738.2	1.8				ug/L	3913	Standard
|	Br	79	531.0	9.0				ug/L	650	Standard
|	Se	82	126.3	2.0				ug/L	92	Standard
|	Kr	83	83.3	12.9				ug/L	94	Standard
|	Y	89	567269.8	1.8				ug/L	723820	Standard
|	Rh	103	450886.9	0.9				ug/L	571558	Standard
|	Cd	111	763.3	6.4	0.2000	0.020	10.1	ug/L	356	Standard
|	Cd	114	1118.5	2.6	0.2000	0.004	1.9	ug/L	18	Standard
>	In	115	349261.1	0.8				ug/L	429736	Standard
>	Tb	159	417039.6	0.7				ug/L	524852	Standard
|	Ho	165	418033.9	0.5				ug/L	525400	Standard
|	Pb	208	6702.0	0.6	0.2000	0.001	0.4	ug/L	327	Standard
|	Bi	209	263711.8	0.2				ug/L	321896	Standard
|	Th	232	359714.2	0.2				ug/L	442878	Standard
|	Cr-1	52	190.7	10.3				ug/L	8	KED
|	Cr-1	53	27.0	32.3				ug/L	2	KED
>	Ge-1	72	6113.6	0.9				ug/L	7398	KED
|	As-2	75	5.7	10.2	0.2000	0.026	12.9	ug/L	1	KED
|	Y-1	89	10620.6	1.8				ug/L	12816	KED
|	Rh-1	103	68956.0	0.4				ug/L	85107	KED
|	Cd-1	111	25.7	14.8	0.2000	0.034	17.1	ug/L	2	KED
|	Cd-1	114	70.3	2.8	0.2000	0.006	3.2	ug/L	2	KED
>	In-1	115	6396.1	2.1				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 1

Report Date/Time: Monday, February 07, 2022 15:16:17

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, February 04, 2022 08:32:14
 Report Date/Time: Monday, February 07, 2022 15:16:20
 Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 2.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	407558.9	0.4				ug/L	507512	Standard
|	Cr	52	10642.3	1.9	0.5000	0.017	3.4	ug/L	5032	Standard
|	Cr	53	831.4	3.4	0.5000	0.023	4.6	ug/L	183	Standard
>	Ge	72	235987.1	2.7				ug/L	285368	Standard
|	As	75	3657.9	6.0	0.5000	0.067	13.4	ug/L	3289	Standard
|	As-1	75	629.7	12.1	0.4895	0.060	12.2	ug/L	101	Standard
|	Se	77	97.3	14.9	0.5000	0.129	25.8	ug/L	57	Standard
|	Se	78	3909.5	5.3				ug/L	3913	Standard
|	Br	79	316.7	6.0				ug/L	650	Standard
|	Se	82	163.7	7.7	0.5000	0.076	15.1	ug/L	92	Standard
|	Kr	83	75.3	15.6				ug/L	94	Standard
|	Y	89	586830.9	1.1				ug/L	723820	Standard
|	Rh	103	464687.5	0.3				ug/L	571558	Standard
|	Cd	111	1468.6	2.2	0.4984	0.018	3.6	ug/L	356	Standard
|	Cd	114	2829.7	2.4	0.5004	0.012	2.4	ug/L	18	Standard
>	In	115	354285.1	0.8				ug/L	429736	Standard
>	Tb	159	428393.8	1.0				ug/L	524852	Standard
|	Ho	165	432455.9	0.6				ug/L	525400	Standard
|	Pb	208	16260.9	0.4	0.4976	0.005	0.9	ug/L	327	Standard
|	Bi	209	267307.3	0.0				ug/L	321896	Standard
|	Th	232	366520.2	0.9				ug/L	442878	Standard
|	Cr-1	52	417.7	8.2	0.5000	0.031	6.2	ug/L	8	KED
|	Cr-1	53	48.3	4.8	0.5000	0.033	6.5	ug/L	2	KED
>	Ge-1	72	6225.4	2.2				ug/L	7398	KED
|	As-2	75	13.7	11.2	0.5051	0.062	12.4	ug/L	1	KED
|	Y-1	89	10630.3	1.2				ug/L	12816	KED
|	Rh-1	103	71582.9	1.4				ug/L	85107	KED
|	Cd-1	111	66.7	10.0	0.5021	0.048	9.6	ug/L	2	KED
|	Cd-1	114	196.3	3.3	0.5059	0.021	4.1	ug/L	2	KED
>	In-1	115	6650.7	0.8				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, February 04, 2022 08:37:03
 Report Date/Time: Monday, February 07, 2022 15:16:22
 Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 3.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	424919.0	0.7				ug/L	507512	Standard
|	Cr	52	26445.5	1.6	1.9723	0.031	1.5	ug/L	5032	Standard
|	Cr	53	2596.9	3.2	1.9804	0.055	2.8	ug/L	183	Standard
>	Ge	72	247916.0	1.5				ug/L	285368	Standard
|	As	75	5282.6	3.4	1.9293	0.080	4.1	ug/L	3289	Standard
|	As-1	75	2402.4	2.5	1.9985	0.028	1.4	ug/L	101	Standard
|	Se	77	200.7	5.2	1.9555	0.143	7.3	ug/L	57	Standard
|	Se	78	4344.7	4.6	2.0000	0.298	14.9	ug/L	3913	Standard
|	Br	79	259.0	7.2				ug/L	650	Standard
|	Se	82	402.3	4.7	1.9836	0.077	3.9	ug/L	92	Standard
|	Kr	83	77.0	4.7				ug/L	94	Standard
|	Y	89	608917.2	0.2				ug/L	723820	Standard
|	Rh	103	483362.8	0.5				ug/L	571558	Standard
|	Cd	111	4974.8	1.8	1.9940	0.038	1.9	ug/L	356	Standard
|	Cd	114	11396.4	0.5	1.9970	0.024	1.2	ug/L	18	Standard
>	In	115	366415.5	0.8				ug/L	429736	Standard
>	Tb	159	442238.1	0.9				ug/L	524852	Standard
|	Ho	165	446914.6	1.2				ug/L	525400	Standard
|	Pb	208	64297.9	0.2	1.9951	0.023	1.1	ug/L	327	Standard
|	Bi	209	277535.8	0.9				ug/L	321896	Standard
|	Th	232	377768.3	0.3				ug/L	442878	Standard
|	Cr-1	52	1410.1	1.1	1.9751	0.027	1.4	ug/L	8	KED
|	Cr-1	53	171.0	8.6	1.9826	0.153	7.7	ug/L	2	KED
>	Ge-1	72	6455.8	0.9				ug/L	7398	KED
|	As-2	75	64.0	15.9	2.0247	0.331	16.3	ug/L	1	KED
|	Y-1	89	11063.6	0.7				ug/L	12816	KED
|	Rh-1	103	74378.5	0.5				ug/L	85107	KED
|	Cd-1	111	276.7	5.6	2.0015	0.066	3.3	ug/L	2	KED
|	Cd-1	114	708.6	4.5	1.9816	0.125	6.3	ug/L	2	KED
>	In-1	115	6964.8	2.4				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, February 04, 2022 08:41:53
 Report Date/Time: Monday, February 07, 2022 15:16:24
 Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 4.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	424615.7	0.2				ug/L	507512	Standard
|	Cr	52	57911.2	1.4	4.9648	0.063	1.3	ug/L	5032	Standard
|	Cr	53	6268.4	2.6	4.9941	0.125	2.5	ug/L	183	Standard
[>	Ge	72	247464.7	1.8				ug/L	285368	Standard
|	As	75	8287.4	3.0	4.8906	0.104	2.1	ug/L	3289	Standard
|	As-1	75	5693.1	2.7	4.9773	0.065	1.3	ug/L	101	Standard
|	Se	77	455.3	4.4	5.0368	0.159	3.2	ug/L	57	Standard
|	Se	78	5148.9	3.7	4.7743	0.293	6.1	ug/L	3913	Standard
|	Br	79	251.0	9.0				ug/L	650	Standard
|	Se	82	849.0	3.9	4.9613	0.153	3.1	ug/L	92	Standard
|	Kr	83	95.7	8.9				ug/L	94	Standard
|	Y	89	613348.0	1.0				ug/L	723820	Standard
|	Rh	103	484904.8	0.6				ug/L	571558	Standard
|	Cd	111	12104.9	1.0	5.0009	0.024	0.5	ug/L	356	Standard
|	Cd	114	28972.2	1.3	5.0072	0.039	0.8	ug/L	18	Standard
[>	In	115	368643.3	0.5				ug/L	429736	Standard
[>	Tb	159	446376.1	0.7				ug/L	524852	Standard
|	Ho	165	447576.7	0.6				ug/L	525400	Standard
|	Pb	208	162171.6	0.2	4.9997	0.035	0.7	ug/L	327	Standard
|	Bi	209	278915.2	0.5				ug/L	321896	Standard
|	Th	232	381167.2	0.2				ug/L	442878	Standard
|	Cr-1	52	3459.1	0.6	4.9715	0.065	1.3	ug/L	8	KED
|	Cr-1	53	407.7	2.8	4.9548	0.123	2.5	ug/L	2	KED
[>	Ge-1	72	6521.2	1.0				ug/L	7398	KED
|	As-2	75	178.0	10.1	5.0847	0.548	10.8	ug/L	1	KED
|	Y-1	89	11158.0	0.6				ug/L	12816	KED
|	Rh-1	103	74658.9	0.8				ug/L	85107	KED
|	Cd-1	111	710.4	1.5	5.0102	0.090	1.8	ug/L	2	KED
|	Cd-1	114	1822.2	2.3	5.0021	0.105	2.1	ug/L	2	KED
[>	In-1	115	7085.3	0.8				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Monday, February 07, 2022 15:16:24

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, February 04, 2022 08:46:42

Report Date/Time: Monday, February 07, 2022 15:16:25

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 5.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	421969.2	0.8				ug/L	507512	Standard
|	Cr	52	209530.6	1.4	19.9364	0.321	1.6	ug/L	5032	Standard
|	Cr	53	23626.5	2.1	19.9499	0.335	1.7	ug/L	183	Standard
>	Ge	72	249788.1	3.3				ug/L	285368	Standard
|	As	75	23822.1	2.3	19.9040	0.255	1.3	ug/L	3289	Standard
|	As-1	75	22661.5	1.5	19.9909	0.408	2.0	ug/L	101	Standard
|	Se	77	1632.1	5.6	19.9621	0.581	2.9	ug/L	57	Standard
|	Se	78	9286.0	2.5	19.6471	0.404	2.1	ug/L	3913	Standard
|	Br	79	219.0	4.1				ug/L	650	Standard
|	Se	82	3130.0	1.9	19.9658	0.863	4.3	ug/L	92	Standard
|	Kr	83	82.3	1.9				ug/L	94	Standard
|	Y	89	600020.8	2.4				ug/L	723820	Standard
|	Rh	103	479768.6	2.3				ug/L	571558	Standard
|	Cd	111	45913.6	0.3	19.9574	0.094	0.5	ug/L	356	Standard
|	Cd	114	113074.1	0.6	19.9732	0.185	0.9	ug/L	18	Standard
>	In	115	367454.6	0.4				ug/L	429736	Standard
>	Tb	159	437045.3	0.9				ug/L	524852	Standard
|	Ho	165	440430.9	0.2				ug/L	525400	Standard
|	Pb	208	635333.6	0.4	20.0022	0.218	1.1	ug/L	327	Standard
|	Bi	209	279524.6	0.8				ug/L	321896	Standard
|	Th	232	383109.0	1.4				ug/L	442878	Standard
|	Cr-1	52	13356.2	2.2	19.9086	0.801	4.0	ug/L	8	KED
|	Cr-1	53	1579.1	3.9	19.9098	0.854	4.3	ug/L	2	KED
>	Ge-1	72	6693.2	1.9				ug/L	7398	KED
|	As-2	75	703.7	1.9	19.9775	0.354	1.8	ug/L	1	KED
|	Y-1	89	11041.9	2.0				ug/L	12816	KED
|	Rh-1	103	74803.3	0.8				ug/L	85107	KED
|	Cd-1	111	2777.9	4.1	19.9821	0.744	3.7	ug/L	2	KED
|	Cd-1	114	7146.5	2.3	19.9830	0.411	2.1	ug/L	2	KED
>	In-1	115	7042.6	0.4				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Monday, February 07, 2022 15:16:25

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, February 04, 2022 08:51:31

Report Date/Time: Monday, February 07, 2022 15:16:29

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 6.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	435418.8	1.7				ug/L	507512	Standard
|	Cr	52	472797.8	1.4	40.7984	0.141	0.3	ug/L	5032	Standard
|	Cr	53	54342.5	1.7	40.8975	0.312	0.8	ug/L	183	Standard
>	Ge	72	257289.5	1.9				ug/L	285368	Standard
|	As	75	49606.7	2.7	40.6029	0.597	1.5	ug/L	3289	Standard
|	As-1	75	50509.1	2.5	40.6610	0.586	1.4	ug/L	101	Standard
|	Se	77	3579.4	2.4	40.6436	0.314	0.8	ug/L	57	Standard
|	Se	78	16573.9	3.0	40.4914	0.694	1.7	ug/L	3913	Standard
|	Br	79	224.7	4.1				ug/L	650	Standard
|	Se	82	6938.0	2.0	40.7002	0.631	1.5	ug/L	92	Standard
|	Kr	83	91.0	6.9				ug/L	94	Standard
|	Y	89	633601.3	1.6				ug/L	723820	Standard
|	Rh	103	499077.1	0.1				ug/L	571558	Standard
|	Cd	111	104474.4	0.4	40.8024	0.381	0.9	ug/L	356	Standard
|	Cd	114	256254.6	1.0	40.7473	0.163	0.4	ug/L	18	Standard
>	In	115	379783.3	0.9				ug/L	429736	Standard
>	Tb	159	460486.6	0.1				ug/L	524852	Standard
|	Ho	165	464059.3	0.5				ug/L	525400	Standard
|	Pb	208	1457496.9	0.3	40.7033	0.172	0.4	ug/L	327	Standard
|	Bi	209	290174.8	0.3				ug/L	321896	Standard
|	Th	232	399348.2	1.0				ug/L	442878	Standard
|	Cr-1	52	30203.9	1.2	40.7534	0.638	1.6	ug/L	8	KED
|	Cr-1	53	3626.8	2.2	40.8839	1.502	3.7	ug/L	2	KED
>	Ge-1	72	6875.3	2.6				ug/L	7398	KED
|	As-2	75	1600.1	1.1	40.8336	0.709	1.7	ug/L	1	KED
|	Y-1	89	11698.8	1.8				ug/L	12816	KED
|	Rh-1	103	78230.3	1.7				ug/L	85107	KED
|	Cd-1	111	6296.4	1.5	40.4969	0.238	0.6	ug/L	2	KED
|	Cd-1	114	16107.0	0.8	40.4503	0.462	1.1	ug/L	2	KED
>	In-1	115	7514.5	1.4				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 6

Report Date/Time: Monday, February 07, 2022 15:16:29

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, February 04, 2022 08:56:22

Report Date/Time: Monday, February 07, 2022 15:16:31

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\Standard 7.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	405608.0	1.1				ug/L	507512	Standard
|	Cr	52	993450.9	1.9	98.6493	1.202	1.2	ug/L	5032	Standard
|	Cr	53	113829.8	1.4	98.5756	1.077	1.1	ug/L	183	Standard
[>	Ge	72	240567.2	2.1				ug/L	285368	Standard
|	As	75	102930.6	1.5	98.7969	0.865	0.9	ug/L	3289	Standard
|	As-1	75	109565.1	1.4	99.0178	1.616	1.6	ug/L	101	Standard
|	Se	77	7995.9	1.8	99.6460	0.242	0.2	ug/L	57	Standard
|	Se	78	31357.4	2.2	98.7753	0.767	0.8	ug/L	3913	Standard
|	Br	79	214.7	3.9				ug/L	650	Standard
|	Se	82	15365.6	1.5	99.4982	2.268	2.3	ug/L	92	Standard
|	Kr	83	101.3	15.3				ug/L	94	Standard
|	Y	89	581466.0	2.3				ug/L	723820	Standard
|	Rh	103	462220.8	2.4				ug/L	571558	Standard
|	Cd	111	223247.3	0.3	99.0689	0.303	0.3	ug/L	356	Standard
|	Cd	114	550920.4	1.2	99.1229	1.069	1.1	ug/L	18	Standard
[>	In	115	350165.0	0.6				ug/L	429736	Standard
[>	Tb	159	432883.0	0.9				ug/L	524852	Standard
|	Ho	165	430052.6	0.5				ug/L	525400	Standard
|	Pb	208	3108117.9	0.4	98.6215	0.676	0.7	ug/L	327	Standard
|	Bi	209	274436.8	1.0				ug/L	321896	Standard
|	Th	232	368618.7	0.6				ug/L	442878	Standard
|	Cr-1	52	63134.5	0.1	98.4367	2.162	2.2	ug/L	8	KED
|	Cr-1	53	7556.0	1.7	98.4352	3.513	3.6	ug/L	2	KED
[>	Ge-1	72	6409.4	2.2				ug/L	7398	KED
|	As-2	75	3499.8	2.6	99.2686	0.677	0.7	ug/L	1	KED
|	Y-1	89	10725.4	2.2				ug/L	12816	KED
|	Rh-1	103	72275.0	0.7				ug/L	85107	KED
|	Cd-1	111	13519.7	0.2	98.9183	2.821	2.9	ug/L	2	KED
|	Cd-1	114	35622.9	0.5	99.4097	2.609	2.6	ug/L	2	KED
[>	In-1	115	6962.5	2.8				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 7

Report Date/Time: Monday, February 07, 2022 15:16:31

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, February 04, 2022 09:02:01

Report Date/Time: Monday, February 07, 2022 15:16:33

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 1.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	453520.4	1.5				ug/L	507512	Standard
|	Cr	52	553432.1	2.3	48.9470	0.522	1.1	ug/L	5032	Standard
|	Cr	53	63578.2	1.4	49.1783	0.071	0.1	ug/L	183	Standard
>	Ge	72	264813.6	0.8				ug/L	285368	Standard
|	As	75	58111.0	2.0	49.3303	0.648	1.3	ug/L	3289	Standard
|	As-1	75	59614.7	1.8	48.8939	0.550	1.1	ug/L	101	Standard
|	Se	77	4360.0	2.7	49.0516	1.231	2.5	ug/L	57	Standard
|	Se	78	18912.5	2.8	48.8650	1.218	2.5	ug/L	3913	Standard
|	Br	79	221.3	18.3				ug/L	650	Standard
|	Se	82	8132.3	1.8	47.5620	0.501	1.1	ug/L	92	Standard
|	Kr	83	80.3	5.2				ug/L	94	Standard
|	Y	89	650595.7	1.9				ug/L	723820	Standard
|	Rh	103	512367.9	0.6				ug/L	571558	Standard
|	Cd	111	120497.9	0.3	48.8250	0.798	1.6	ug/L	356	Standard
|	Cd	114	295833.2	1.3	48.6591	0.396	0.8	ug/L	18	Standard
>	In	115	383036.7	1.3				ug/L	429736	Standard
>	Tb	159	464430.7	0.4				ug/L	524852	Standard
|	Ho	165	470815.3	0.5				ug/L	525400	Standard
|	Pb	208	1699096.1	0.4	50.2447	0.121	0.2	ug/L	327	Standard
|	Bi	209	296429.7	1.0				ug/L	321896	Standard
|	Th	232	406028.6	0.4				ug/L	442878	Standard
|	Cr-1	52	35207.0	1.2	50.0313	1.406	2.8	ug/L	8	KED
|	Cr-1	53	4120.6	3.0	48.8985	1.175	2.4	ug/L	2	KED
>	Ge-1	72	7031.4	1.6				ug/L	7398	KED
|	As-2	75	1842.5	2.8	47.6281	1.413	3.0	ug/L	1	KED
|	Y-1	89	11898.6	1.5				ug/L	12816	KED
|	Rh-1	103	79056.5	0.9				ug/L	85107	KED
|	Cd-1	111	7585.7	1.6	50.7581	1.342	2.6	ug/L	2	KED
|	Cd-1	114	19165.9	0.7	48.9147	0.833	1.7	ug/L	2	KED
>	In-1	115	7609.7	1.1				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		89.361
|	Cr	52	97.894	
|	Cr	53	98.357	
>	Ge	72		92.797
|	As	75	98.661	
|	As-1	75	97.788	
|	Se	77	98.103	
|	Se	78	97.730	
|	Br	79		
|	Se	82	95.124	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	97.650	

Sample ID: QC Std 1

Report Date/Time: Monday, February 07, 2022 15:16:33

Cd	114	97.318	
In	115		89.133
Tb	159		88.488
Ho	165		
Pb	208	100.489	
Bi	209		
Th	232		
Cr-1	52	100.063	
Cr-1	53	97.797	
Ge-1	72		95.041
As-2	75	95.256	
Y-1	89		
Rh-1	103		
Cd-1	111	101.516	
Cd-1	114	97.829	
In-1	115		97.942

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, February 04, 2022 09:07:41
 Report Date/Time: Monday, February 07, 2022 15:16:37
 Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 2.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	520231.7	1.3				ug/L	507512	Standard
|	Cr	52	4815.5	5.4	-0.0268	0.017	62.4	ug/L	5032	Standard
|	Cr	53	127.0	7.2	-0.0407	0.006	14.8	ug/L	183	Standard
>	Ge	72	299804.4	2.0				ug/L	285368	Standard
|	As	75	3381.6	2.1	-0.0584	0.022	37.5	ug/L	3289	Standard
|	As-1	75	94.8	15.1	-0.0082	0.012	142.7	ug/L	101	Standard
|	Se	77	55.7	13.0	-0.0449	0.084	186.6	ug/L	57	Standard
|	Se	78	4019.9	2.8	-0.2565	0.167	65.2	ug/L	3913	Standard
|	Br	79	194.0	13.3				ug/L	650	Standard
|	Se	82	89.7	9.7	-0.0383	0.044	115.0	ug/L	92	Standard
|	Kr	83	86.7	13.8				ug/L	94	Standard
|	Y	89	735358.9	0.3				ug/L	723820	Standard
|	Rh	103	576517.2	1.8				ug/L	571558	Standard
|	Cd	111	389.3	1.6	0.0122	0.002	17.6	ug/L	356	Standard
|	Cd	114	27.6	13.2	0.0015	0.001	36.4	ug/L	18	Standard
>	In	115	429282.6	0.1				ug/L	429736	Standard
>	Tb	159	521597.0	0.5				ug/L	524852	Standard
|	Ho	165	524895.1	0.3				ug/L	525400	Standard
|	Pb	208	406.7	9.3	0.0021	0.001	43.9	ug/L	327	Standard
|	Bi	209	325606.9	0.2				ug/L	321896	Standard
|	Th	232	448423.9	1.2				ug/L	442878	Standard
|	Cr-1	52	7.7	32.8	-0.0005	0.003	700.7	ug/L	8	KED
|	Cr-1	53	1.7	34.6	-0.0010	0.006	646.8	ug/L	2	KED
>	Ge-1	72	7795.1	1.9				ug/L	7398	KED
|	As-2	75	0.7	86.6	-0.0172	0.013	78.2	ug/L	1	KED
|	Y-1	89	13300.5	1.5				ug/L	12816	KED
|	Rh-1	103	88670.0	0.9				ug/L	85107	KED
|	Cd-1	111	1.3	114.6	-0.0030	0.009	304.4	ug/L	2	KED
|	Cd-1	114	2.7	81.2	0.0002	0.005	3192.6	ug/L	2	KED
>	In-1	115	8566.1	1.0				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		102.506
|	Cr	52		
|	Cr	53		
>	Ge	72		105.059
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

—	Cd	114	
↳	In	115	99.894
↳	Tb	159	99.380
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	105.364
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	110.251

Quantitative Analysis - Summary Report

Sample ID: QC std 6

Sample Date/Time: Friday, February 04, 2022 09:18:32

Report Date/Time: Monday, February 07, 2022 15:16:42

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	445111.1	0.5				ug/L	507512	Standard
|	Cr	52	441817.7	0.8	39.7416	0.233	0.6	ug/L	5032	Standard
|	Cr	53	50598.1	2.1	39.8527	0.785	2.0	ug/L	183	Standard
>	Ge	72	260628.6	2.1				ug/L	285368	Standard
|	As	75	46733.2	2.0	39.8133	0.467	1.2	ug/L	3289	Standard
|	As-1	75	46870.9	1.8	39.0475	0.243	0.6	ug/L	101	Standard
|	Se	77	3572.8	4.5	40.7360	1.452	3.6	ug/L	57	Standard
|	Se	78	16173.5	2.4	40.9425	0.646	1.6	ug/L	3913	Standard
|	Br	79	192.3	12.0				ug/L	650	Standard
|	Se	82	6432.8	2.1	38.1290	0.204	0.5	ug/L	92	Standard
|	Kr	83	88.3	3.5				ug/L	94	Standard
|	Y	89	624978.6	1.9				ug/L	723820	Standard
|	Rh	103	493487.0	0.6				ug/L	571558	Standard
|	Cd	111	95338.5	1.2	39.9927	0.799	2.0	ug/L	356	Standard
|	Cd	114	232332.7	0.7	39.5905	0.783	2.0	ug/L	18	Standard
>	In	115	369780.3	1.5				ug/L	429736	Standard
>	Tb	159	450581.4	1.1				ug/L	524852	Standard
|	Ho	165	457669.3	0.9				ug/L	525400	Standard
|	Pb	208	1337851.7	0.6	40.7810	0.623	1.5	ug/L	327	Standard
|	Bi	209	286865.7	0.7				ug/L	321896	Standard
|	Th	232	394860.7	0.4				ug/L	442878	Standard
|	Cr-1	52	27936.0	1.5	39.8778	0.525	1.3	ug/L	8	KED
|	Cr-1	53	3333.4	3.1	39.7350	0.394	1.0	ug/L	2	KED
>	Ge-1	72	6998.4	2.2				ug/L	7398	KED
|	As-2	75	1521.1	4.8	39.5290	2.587	6.5	ug/L	1	KED
|	Y-1	89	11844.9	2.7				ug/L	12816	KED
|	Rh-1	103	78379.8	0.8				ug/L	85107	KED
|	Cd-1	111	6152.3	1.0	39.8468	0.239	0.6	ug/L	2	KED
|	Cd-1	114	15721.7	1.7	38.8512	1.200	3.1	ug/L	2	KED
>	In-1	115	7860.4	1.5				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		87.704
|	Cr	52		
|	Cr	53		
>	Ge	72		91.331
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC std 6

Report Date/Time: Monday, February 07, 2022 15:16:42

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Cd	114	
In	115	86.048
Tb	159	85.849
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.595
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	101.168

Quantitative Analysis - Summary Report

Sample ID: QC std 7

Sample Date/Time: Friday, February 04, 2022 09:24:11

Report Date/Time: Monday, February 07, 2022 15:16:44

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	429730.6	1.8				ug/L	507512	Standard
|	Cr	52	212921.1	2.1	19.6364	0.089	0.5	ug/L	5032	Standard
|	Cr	53	24212.5	1.9	19.6904	0.286	1.5	ug/L	183	Standard
>	Ge	72	255182.5	2.0				ug/L	285368	Standard
|	As	75	24568.2	3.8	20.1052	0.513	2.6	ug/L	3289	Standard
|	As-1	75	22946.6	3.0	19.4831	0.321	1.7	ug/L	101	Standard
|	Se	77	1739.1	1.0	19.9562	0.554	2.8	ug/L	57	Standard
|	Se	78	9901.8	3.1	21.2468	0.561	2.6	ug/L	3913	Standard
|	Br	79	183.0	3.4				ug/L	650	Standard
|	Se	82	3163.0	0.7	18.9009	0.398	2.1	ug/L	92	Standard
|	Kr	83	86.3	10.0				ug/L	94	Standard
|	Y	89	609622.2	1.2				ug/L	723820	Standard
|	Rh	103	484458.8	2.6				ug/L	571558	Standard
|	Cd	111	45655.4	0.7	19.6629	0.144	0.7	ug/L	356	Standard
|	Cd	114	112734.2	0.8	19.7865	0.072	0.4	ug/L	18	Standard
>	In	115	358917.2	0.4				ug/L	429736	Standard
>	Tb	159	442331.1	1.1				ug/L	524852	Standard
|	Ho	165	445783.3	0.6				ug/L	525400	Standard
|	Pb	208	642770.6	1.0	19.9533	0.256	1.3	ug/L	327	Standard
|	Bi	209	283197.1	0.2				ug/L	321896	Standard
|	Th	232	384786.6	1.0				ug/L	442878	Standard
|	Cr-1	52	13207.1	1.4	19.3422	0.568	2.9	ug/L	8	KED
|	Cr-1	53	1600.4	3.5	19.5784	0.986	5.0	ug/L	2	KED
>	Ge-1	72	6820.6	1.7				ug/L	7398	KED
|	As-2	75	735.0	1.8	19.5680	0.347	1.8	ug/L	1	KED
|	Y-1	89	11515.0	1.4				ug/L	12816	KED
|	Rh-1	103	76184.6	1.7				ug/L	85107	KED
|	Cd-1	111	2905.3	1.8	19.4350	0.291	1.5	ug/L	2	KED
|	Cd-1	114	7593.4	0.1	19.3796	0.081	0.4	ug/L	2	KED
>	In-1	115	7607.5	0.5				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		84.674
|	Cr	52		
|	Cr	53		
>	Ge	72		89.422
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC std 7

Report Date/Time: Monday, February 07, 2022 15:16:44

Cd	114	
In	115	83.520
Tb	159	84.277
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	92.192
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.914

Quantitative Analysis - Summary Report

Sample ID: QC std 8

Sample Date/Time: Friday, February 04, 2022 09:29:51

Report Date/Time: Monday, February 07, 2022 15:16:46

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	517757.1	2.6				ug/L	507512	Standard
|	Cr	52	4838.5	2.5	-0.0230	0.006	25.5	ug/L	5032	Standard
|	Cr	53	149.3	10.4	-0.0252	0.009	34.2	ug/L	183	Standard
>	Ge	72	303710.5	1.9				ug/L	285368	Standard
|	As	75	3520.5	2.0	0.0157	0.015	98.0	ug/L	3289	Standard
|	As-1	75	109.0	11.3	0.0009	0.008	915.7	ug/L	101	Standard
|	Se	77	46.0	10.9	-0.1484	0.058	39.3	ug/L	57	Standard
|	Se	78	4167.3	1.7	0.0097	0.120	1237.1	ug/L	3913	Standard
|	Br	79	181.3	9.4				ug/L	650	Standard
|	Se	82	91.0	4.0	-0.0372	0.026	71.0	ug/L	92	Standard
|	Kr	83	80.7	10.0				ug/L	94	Standard
|	Y	89	737737.9	1.4				ug/L	723820	Standard
|	Rh	103	572458.5	1.2				ug/L	571558	Standard
|	Cd	111	371.7	6.1	0.0069	0.008	114.4	ug/L	356	Standard
|	Cd	114	21.2	34.5	0.0006	0.001	194.4	ug/L	18	Standard
>	In	115	425963.4	1.2				ug/L	429736	Standard
>	Tb	159	525286.7	1.0				ug/L	524852	Standard
|	Ho	165	532736.2	1.7				ug/L	525400	Standard
|	Pb	208	368.3	2.4	0.0011	0.000	22.4	ug/L	327	Standard
|	Bi	209	328810.8	0.8				ug/L	321896	Standard
|	Th	232	458435.7	1.0				ug/L	442878	Standard
|	Cr-1	52	8.7	24.0	0.0004	0.003	713.6	ug/L	8	KED
|	Cr-1	53	1.0	100.0	-0.0084	0.010	122.7	ug/L	2	KED
>	Ge-1	72	8082.6	1.9				ug/L	7398	KED
|	As-2	75	0.3	173.2	-0.0251	0.013	52.7	ug/L	1	KED
|	Y-1	89	13817.7	0.1				ug/L	12816	KED
|	Rh-1	103	91239.1	0.6				ug/L	85107	KED
|	Cd-1	111	0.7	173.2	-0.0071	0.007	93.8	ug/L	2	KED
|	Cd-1	114	1.4	149.0	-0.0030	0.004	151.4	ug/L	2	KED
>	In-1	115	8940.0	1.0				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		102.019
|	Cr	52		
|	Cr	53		
>	Ge	72		106.428
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC std 8

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Cd	114	
In	115	99.122
Tb	159	100.083
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	109.250
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.063

Quantitative Analysis - Summary Report

Sample ID: MB0201F1 2X

Sample Date/Time: Friday, February 04, 2022 09:35:30

Report Date/Time: Monday, February 07, 2022 15:16:49

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\MB0201F1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	438090.8	1.7				ug/L	507512	Standard
|	Cr	52	4892.5	2.4	0.0506	0.007	14.5	ug/L	5032	Standard
|	Cr	53	147.3	3.9	-0.0083	0.003	31.5	ug/L	183	Standard
[>	Ge	72	255325.8	0.2				ug/L	285368	Standard
|	As	75	3472.7	1.9	0.4924	0.059	12.0	ug/L	3289	Standard
|	As-1	75	105.1	35.3	0.0124	0.032	255.8	ug/L	101	Standard
|	Se	77	51.0	10.4	-0.0035	0.063	1825.2	ug/L	57	Standard
|	Se	78	4119.9	2.0	2.0539	0.264	12.8	ug/L	3913	Standard
|	Br	79	197.0	11.2				ug/L	650	Standard
|	Se	82	92.3	9.2	0.0597	0.053	89.1	ug/L	92	Standard
|	Kr	83	81.0	19.9				ug/L	94	Standard
|	Y	89	619356.6	0.9				ug/L	723820	Standard
|	Rh	103	484803.8	0.5				ug/L	571558	Standard
|	Cd	111	305.9	2.1	0.0022	0.003	113.4	ug/L	356	Standard
|	Cd	114	28.8	20.6	0.0024	0.001	43.9	ug/L	18	Standard
[>	In	115	363048.9	1.1				ug/L	429736	Standard
[>	Tb	159	448661.9	0.9				ug/L	524852	Standard
|	Ho	165	447564.1	0.8				ug/L	525400	Standard
|	Pb	208	761.7	3.2	0.0147	0.001	3.6	ug/L	327	Standard
|	Bi	209	281054.5	0.8				ug/L	321896	Standard
|	Th	232	385412.6	0.7				ug/L	442878	Standard
|	Cr-1	52	10.3	29.6	0.0046	0.004	97.9	ug/L	8	KED
|	Cr-1	53	1.3	86.6	-0.0029	0.014	467.5	ug/L	2	KED
[>	Ge-1	72	6924.7	2.3				ug/L	7398	KED
|	As-2	75	1.0	100.0	-0.0064	0.026	405.1	ug/L	1	KED
|	Y-1	89	11679.8	2.3				ug/L	12816	KED
|	Rh-1	103	77786.9	1.0				ug/L	85107	KED
|	Cd-1	111	2.3	89.2	0.0045	0.014	306.4	ug/L	2	KED
|	Cd-1	114	1.9	103.6	-0.0011	0.005	456.0	ug/L	2	KED
[>	In-1	115	7733.2	1.4				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		86.321
|	Cr	52		
|	Cr	53		
[>	Ge	72		89.473
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: MB0201F1 2X

Report Date/Time: Monday, February 07, 2022 15:16:49

Cd	114	
In	115	84.482
Tb	159	85.484
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.599
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.531

Quantitative Analysis - Summary Report

Sample ID: SB0201F1 2X

Sample Date/Time: Friday, February 04, 2022 09:41:09

Report Date/Time: Monday, February 07, 2022 15:16:51

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\SB0201F1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	438780.1	2.6				ug/L	507512	Standard
|	Cr	52	420911.3	2.0	38.3996	0.477	1.2	ug/L	5032	Standard
|	Cr	53	48318.6	2.3	38.6045	0.108	0.3	ug/L	183	Standard
[>	Ge	72	256399.6	1.0				ug/L	285368	Standard
|	As	75	45000.5	2.1	38.9063	0.451	1.2	ug/L	3289	Standard
|	As-1	75	44701.8	1.4	37.8493	0.150	0.4	ug/L	101	Standard
|	Se	77	3343.4	1.2	38.7232	0.139	0.4	ug/L	57	Standard
|	Se	78	15729.7	2.4	40.3383	0.711	1.8	ug/L	3913	Standard
|	Br	79	212.0	3.3				ug/L	650	Standard
|	Se	82	6059.6	0.1	36.4901	0.345	0.9	ug/L	92	Standard
|	Kr	83	90.3	3.6				ug/L	94	Standard
|	Y	89	616487.2	1.0				ug/L	723820	Standard
|	Rh	103	481608.2	0.8				ug/L	571558	Standard
|	Cd	111	90248.8	0.8	38.5852	0.468	1.2	ug/L	356	Standard
|	Cd	114	220871.0	0.1	38.3643	0.432	1.1	ug/L	18	Standard
[>	In	115	362732.1	1.1				ug/L	429736	Standard
[>	Tb	159	446557.0	1.2				ug/L	524852	Standard
|	Ho	165	450875.4	0.7				ug/L	525400	Standard
|	Pb	208	1265882.3	0.4	38.9334	0.406	1.0	ug/L	327	Standard
|	Bi	209	284344.0	0.8				ug/L	321896	Standard
|	Th	232	387877.2	0.5				ug/L	442878	Standard
|	Cr-1	52	26243.4	1.6	37.8867	0.687	1.8	ug/L	8	KED
|	Cr-1	53	3161.0	1.2	38.1180	0.551	1.4	ug/L	2	KED
[>	Ge-1	72	6919.0	0.3				ug/L	7398	KED
|	As-2	75	1498.4	2.8	39.3554	1.193	3.0	ug/L	1	KED
|	Y-1	89	11801.5	1.5				ug/L	12816	KED
|	Rh-1	103	77622.4	1.9				ug/L	85107	KED
|	Cd-1	111	5857.2	3.0	38.5351	1.710	4.4	ug/L	2	KED
|	Cd-1	114	15198.9	0.9	38.1349	0.825	2.2	ug/L	2	KED
[>	In-1	115	7740.9	1.5				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		86.457
|	Cr	52		
|	Cr	53		
[>	Ge	72		89.849
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0201F1 2X

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Cd	114	
In	115	84.408
Tb	159	85.083
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.522
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.630

Quantitative Analysis - Summary Report

Sample ID: 02-007-01d 2X

Sample Date/Time: Friday, February 04, 2022 09:46:48

Report Date/Time: Monday, February 07, 2022 15:16:53

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01d 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	483963.2	3.2				ug/L	507512	Standard
|	Cr	52	22230.3	0.8	1.4576	0.044	3.0	ug/L	5032	Standard
|	Cr	53	1562.8	3.2	1.0091	0.012	1.2	ug/L	183	Standard
>	Ge	72	255159.9	1.5				ug/L	285368	Standard
|	As	75	5467.7	2.1	2.3510	0.158	6.7	ug/L	3289	Standard
|	As-1	75	2068.8	2.4	1.6872	0.065	3.9	ug/L	101	Standard
|	Se	77	74.7	3.9	0.2765	0.027	9.9	ug/L	57	Standard
|	Se	78	4345.7	2.7	2.8141	0.430	15.3	ug/L	3913	Standard
|	Br	79	32266.1	2.1				ug/L	650	Standard
|	Se	82	167.0	9.6	0.5176	0.091	17.5	ug/L	92	Standard
|	Kr	83	83.0	18.2				ug/L	94	Standard
|	Y	89	623549.0	1.2				ug/L	723820	Standard
|	Rh	103	465354.2	0.8				ug/L	571558	Standard
|	Cd	111	338.1	6.3	0.0204	0.009	43.5	ug/L	356	Standard
|	Cd	114	47.2	10.8	0.0059	0.001	16.2	ug/L	18	Standard
>	In	115	352416.6	1.0				ug/L	429736	Standard
>	Tb	159	448543.3	0.4				ug/L	524852	Standard
|	Ho	165	451008.0	0.8				ug/L	525400	Standard
|	Pb	208	856.7	3.7	0.0177	0.001	5.2	ug/L	327	Standard
|	Bi	209	264773.5	0.5				ug/L	321896	Standard
|	Th	232	388062.5	0.5				ug/L	442878	Standard
|	Cr-1	52	655.0	3.8	0.9557	0.050	5.2	ug/L	8	KED
|	Cr-1	53	78.3	11.7	0.9216	0.112	12.2	ug/L	2	KED
>	Ge-1	72	6777.3	1.4				ug/L	7398	KED
|	As-2	75	65.7	19.3	1.7289	0.333	19.3	ug/L	1	KED
|	Y-1	89	11979.7	1.0				ug/L	12816	KED
|	Rh-1	103	74671.0	1.4				ug/L	85107	KED
|	Cd-1	111	4.0	25.0	0.0157	0.007	43.4	ug/L	2	KED
|	Cd-1	114	3.5	27.3	0.0029	0.002	81.2	ug/L	2	KED
>	In-1	115	7652.5	0.9				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		95.360
|	Cr	52		
|	Cr	53		
>	Ge	72		89.414
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-007-01d 2X

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—	Cd	114	
↳	In	115	82.008
↳	Tb	159	85.461
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	91.606
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	98.492

Quantitative Analysis - Summary Report

Sample ID: 02-050-01k 2X

Sample Date/Time: Friday, February 04, 2022 09:52:26

Report Date/Time: Monday, February 07, 2022 15:16:55

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\02-050-01k 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	498245.9	2.0				ug/L	507512	Standard
|	Cr	52	11942.0	1.8	0.5684	0.014	2.4	ug/L	5032	Standard
|	Cr	53	669.0	1.3	0.3457	0.005	1.4	ug/L	183	Standard
>	Ge	72	264782.7	2.6				ug/L	285368	Standard
|	As	75	6363.1	1.5	2.9684	0.066	2.2	ug/L	3289	Standard
|	As-1	75	2937.7	1.6	2.3380	0.095	4.1	ug/L	101	Standard
|	Se	77	77.7	8.2	0.2779	0.049	17.6	ug/L	57	Standard
|	Se	78	4240.0	3.2	1.9485	0.092	4.7	ug/L	3913	Standard
|	Br	79	8124.6	0.3				ug/L	650	Standard
|	Se	82	113.3	5.9	0.1644	0.055	33.5	ug/L	92	Standard
|	Kr	83	88.7	4.0				ug/L	94	Standard
|	Y	89	628559.5	0.7				ug/L	723820	Standard
|	Rh	103	484225.3	0.9				ug/L	571558	Standard
|	Cd	111	317.0	11.7	0.0053	0.015	277.8	ug/L	356	Standard
|	Cd	114	160.3	18.0	0.0249	0.005	19.9	ug/L	18	Standard
>	In	115	367499.9	0.9				ug/L	429736	Standard
>	Tb	159	459783.4	1.4				ug/L	524852	Standard
|	Ho	165	463950.8	0.5				ug/L	525400	Standard
|	Pb	208	1450.7	1.6	0.0348	0.001	2.1	ug/L	327	Standard
|	Bi	209	280602.8	0.8				ug/L	321896	Standard
|	Th	232	397854.0	0.4				ug/L	442878	Standard
|	Cr-1	52	84.7	20.6	0.1076	0.023	21.6	ug/L	8	KED
|	Cr-1	53	8.0	65.0	0.0747	0.061	81.7	ug/L	2	KED
>	Ge-1	72	7165.8	0.9				ug/L	7398	KED
|	As-2	75	93.3	8.9	2.3374	0.231	9.9	ug/L	1	KED
|	Y-1	89	12114.1	2.4				ug/L	12816	KED
|	Rh-1	103	78452.8	1.0				ug/L	85107	KED
|	Cd-1	111	5.0	34.6	0.0212	0.011	52.6	ug/L	2	KED
|	Cd-1	114	15.3	35.2	0.0314	0.013	41.7	ug/L	2	KED
>	In-1	115	7925.4	0.2				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.174
|	Cr	52		
|	Cr	53		
>	Ge	72		92.787
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: 02-050-01k 2X

Report Date/Time: Monday, February 07, 2022 15:16:55

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Cd	114	
In	115	85.518
Tb	159	87.603
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	96.858
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	102.004

Quantitative Analysis - Summary Report

Sample ID: 02-007-01dD 2X

Sample Date/Time: Friday, February 04, 2022 09:59:28

Report Date/Time: Monday, February 07, 2022 15:16:58

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dD 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	508696.2	1.7				ug/L	507512	Standard
|	Cr	52	26837.9	1.4	1.7328	0.020	1.2	ug/L	5032	Standard
|	Cr	53	1634.4	4.7	1.0031	0.039	3.9	ug/L	183	Standard
>	Ge	72	267355.0	1.0				ug/L	285368	Standard
|	As	75	5826.6	3.9	2.4355	0.160	6.6	ug/L	3289	Standard
|	As-1	75	2221.7	6.4	1.7304	0.110	6.3	ug/L	101	Standard
|	Se	77	67.3	12.6	0.1542	0.102	66.2	ug/L	57	Standard
|	Se	78	4575.7	3.0	2.8811	0.290	10.1	ug/L	3913	Standard
|	Br	79	28050.2	1.4				ug/L	650	Standard
|	Se	82	164.0	11.6	0.4543	0.119	26.2	ug/L	92	Standard
|	Kr	83	99.3	9.9				ug/L	94	Standard
|	Y	89	658893.2	1.4				ug/L	723820	Standard
|	Rh	103	476766.7	1.1				ug/L	571558	Standard
|	Cd	111	319.8	5.2	0.0065	0.009	133.0	ug/L	356	Standard
|	Cd	114	33.0	43.2	0.0031	0.002	78.0	ug/L	18	Standard
>	In	115	367650.6	1.2				ug/L	429736	Standard
>	Tb	159	469453.1	1.1				ug/L	524852	Standard
|	Ho	165	472051.4	0.2				ug/L	525400	Standard
|	Pb	208	920.3	3.5	0.0184	0.001	3.4	ug/L	327	Standard
|	Bi	209	276502.2	0.2				ug/L	321896	Standard
|	Th	232	403135.7	0.1				ug/L	442878	Standard
|	Cr-1	52	683.0	2.6	0.9631	0.013	1.3	ug/L	8	KED
|	Cr-1	53	80.3	8.3	0.9379	0.078	8.3	ug/L	2	KED
>	Ge-1	72	7010.1	2.1				ug/L	7398	KED
|	As-2	75	70.7	14.5	1.7977	0.230	12.8	ug/L	1	KED
|	Y-1	89	12660.9	1.3				ug/L	12816	KED
|	Rh-1	103	76827.4	0.8				ug/L	85107	KED
|	Cd-1	111	2.0	50.0	0.0016	0.006	394.8	ug/L	2	KED
|	Cd-1	114	2.2	90.6	-0.0006	0.005	750.6	ug/L	2	KED
>	In-1	115	8142.5	1.1				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.233
|	Cr	52		
|	Cr	53		
>	Ge	72		93.688
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-007-01dD 2X

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	Cd	114	
>	In	115	85.553
>	Tb	159	89.445
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	94.753
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	104.798

Quantitative Analysis - Summary Report

Sample ID: 02-007-01dL 10X

Sample Date/Time: Friday, February 04, 2022 10:05:06

Report Date/Time: Monday, February 07, 2022 15:17:00

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dL 10X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	479896.4	0.9				ug/L	507512	Standard
|	Cr	52	10363.1	1.3	0.4723	0.007	1.4	ug/L	5032	Standard
|	Cr	53	473.0	5.1	0.2200	0.016	7.2	ug/L	183	Standard
[>	Ge	72	276396.1	2.3				ug/L	285368	Standard
|	As	75	4204.8	1.1	0.8756	0.052	5.9	ug/L	3289	Standard
|	As-1	75	550.9	1.1	0.3566	0.012	3.5	ug/L	101	Standard
|	Se	77	58.0	11.9	0.0279	0.087	309.8	ug/L	57	Standard
|	Se	78	4502.7	1.5	2.1875	0.205	9.4	ug/L	3913	Standard
|	Br	79	6356.7	1.6				ug/L	650	Standard
|	Se	82	113.0	3.5	0.1336	0.024	18.0	ug/L	92	Standard
|	Kr	83	91.7	8.7				ug/L	94	Standard
|	Y	89	661632.5	1.5				ug/L	723820	Standard
|	Rh	103	509043.0	1.1				ug/L	571558	Standard
|	Cd	111	339.0	3.8	0.0069	0.006	82.0	ug/L	356	Standard
|	Cd	114	76.2	18.1	0.0098	0.002	23.0	ug/L	18	Standard
[>	In	115	388595.2	0.5				ug/L	429736	Standard
[>	Tb	159	477303.0	0.9				ug/L	524852	Standard
|	Ho	165	476927.1	0.3				ug/L	525400	Standard
|	Pb	208	1046.7	3.9	0.0216	0.001	4.3	ug/L	327	Standard
|	Bi	209	294070.6	0.6				ug/L	321896	Standard
|	Th	232	408708.8	0.5				ug/L	442878	Standard
|	Cr-1	52	165.7	10.7	0.2057	0.023	11.2	ug/L	8	KED
|	Cr-1	53	13.3	31.2	0.1264	0.045	35.6	ug/L	2	KED
[>	Ge-1	72	7660.1	0.5				ug/L	7398	KED
|	As-2	75	17.7	18.2	0.3868	0.077	20.0	ug/L	1	KED
|	Y-1	89	12908.5	0.2				ug/L	12816	KED
|	Rh-1	103	83120.8	0.9				ug/L	85107	KED
|	Cd-1	111	3.7	41.7	0.0109	0.009	86.4	ug/L	2	KED
|	Cd-1	114	4.7	33.6	0.0047	0.004	82.9	ug/L	2	KED
[>	In-1	115	8573.3	2.9				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.559
	Cr	52		
	Cr	53		
[>	Ge	72		96.856
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	90.426
Tb	159	90.941
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.539
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	110.343

Quantitative Analysis - Summary Report

Sample ID: 02-007-01dMS 2X

Sample Date/Time: Friday, February 04, 2022 10:10:45

Report Date/Time: Monday, February 07, 2022 15:17:02

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dMS 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	532522.0	1.6				ug/L	507512	Standard
|	Cr	52	502068.2	2.7	37.7240	0.415	1.1	ug/L	5032	Standard
|	Cr	53	56725.1	1.0	37.3402	0.352	0.9	ug/L	183	Standard
>	Ge	72	277814.7	1.5				ug/L	285368	Standard
|	As	75	54658.3	1.2	43.9491	0.134	0.3	ug/L	3289	Standard
|	As-1	75	54404.4	0.9	42.5272	0.312	0.7	ug/L	101	Standard
|	Se	77	4075.9	3.8	43.6449	1.560	3.6	ug/L	57	Standard
|	Se	78	18556.7	1.8	44.9545	0.328	0.7	ug/L	3913	Standard
|	Br	79	28560.2	0.4				ug/L	650	Standard
|	Se	82	7193.5	0.5	40.0291	0.448	1.1	ug/L	92	Standard
|	Kr	83	133.3	7.5				ug/L	94	Standard
|	Y	89	691268.9	1.2				ug/L	723820	Standard
|	Rh	103	493995.0	0.9				ug/L	571558	Standard
|	Cd	111	98131.0	0.8	40.2127	0.184	0.5	ug/L	356	Standard
|	Cd	114	240061.5	0.5	39.9603	0.058	0.1	ug/L	18	Standard
>	In	115	378471.0	0.4				ug/L	429736	Standard
>	Tb	159	488362.1	0.7				ug/L	524852	Standard
|	Ho	165	490899.9	0.2				ug/L	525400	Standard
|	Pb	208	1376392.6	0.3	38.7072	0.384	1.0	ug/L	327	Standard
|	Bi	209	280760.1	0.6				ug/L	321896	Standard
|	Th	232	418236.8	0.7				ug/L	442878	Standard
|	Cr-1	52	29687.2	1.7	40.7007	0.735	1.8	ug/L	8	KED
|	Cr-1	53	3563.8	0.5	40.8148	0.681	1.7	ug/L	2	KED
>	Ge-1	72	7286.9	2.1				ug/L	7398	KED
|	As-2	75	1723.1	1.2	42.9861	1.060	2.5	ug/L	1	KED
|	Y-1	89	13187.1	2.1				ug/L	12816	KED
|	Rh-1	103	80450.9	1.2				ug/L	85107	KED
|	Cd-1	111	6674.6	2.4	39.9745	0.982	2.5	ug/L	2	KED
|	Cd-1	114	17013.6	0.8	38.8685	0.348	0.9	ug/L	2	KED
>	In-1	115	8500.0	0.1				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.928
	Cr	52		
	Cr	53		
>	Ge	72		97.353
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	88.071
Tb	159	93.048
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.494
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	109.399

Quantitative Analysis - Summary Report

Sample ID: 02-007-01dMSD 2X

Sample Date/Time: Friday, February 04, 2022 10:16:24

Report Date/Time: Monday, February 07, 2022 15:17:05

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\02-007-01dMSD 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	517033.3	2.8				ug/L	507512	Standard
|	Cr	52	478538.1	2.4	37.0328	0.171	0.5	ug/L	5032	Standard
|	Cr	53	54157.5	3.0	36.7116	0.091	0.2	ug/L	183	Standard
>	Ge	72	272971.9	1.4				ug/L	285368	Standard
|	As	75	54066.0	1.2	44.2617	0.119	0.3	ug/L	3289	Standard
|	As-1	75	53934.8	0.5	42.9094	0.392	0.9	ug/L	101	Standard
|	Se	77	3933.2	4.9	42.8391	1.544	3.6	ug/L	57	Standard
|	Se	78	18306.7	3.3	45.1742	1.087	2.4	ug/L	3913	Standard
|	Br	79	28647.7	3.3				ug/L	650	Standard
|	Se	82	7150.8	1.0	40.5018	0.460	1.1	ug/L	92	Standard
|	Kr	83	95.0	11.4				ug/L	94	Standard
|	Y	89	676483.8	1.4				ug/L	723820	Standard
|	Rh	103	491225.6	0.9				ug/L	571558	Standard
|	Cd	111	96826.4	1.7	40.2172	0.476	1.2	ug/L	356	Standard
|	Cd	114	236701.5	1.7	39.9359	0.483	1.2	ug/L	18	Standard
>	In	115	373388.8	0.5				ug/L	429736	Standard
>	Tb	159	477493.1	0.7				ug/L	524852	Standard
|	Ho	165	483786.4	0.4				ug/L	525400	Standard
|	Pb	208	1331305.7	0.6	38.2907	0.317	0.8	ug/L	327	Standard
|	Bi	209	281263.0	1.0				ug/L	321896	Standard
|	Th	232	412052.6	0.7				ug/L	442878	Standard
|	Cr-1	52	28479.4	0.7	39.3078	0.768	2.0	ug/L	8	KED
|	Cr-1	53	3539.8	1.1	40.8106	0.860	2.1	ug/L	2	KED
>	Ge-1	72	7238.2	1.4				ug/L	7398	KED
|	As-2	75	1722.8	0.9	43.2579	0.506	1.2	ug/L	1	KED
|	Y-1	89	13020.9	1.7				ug/L	12816	KED
|	Rh-1	103	80108.0	0.5				ug/L	85107	KED
|	Cd-1	111	6496.1	1.9	39.9804	1.089	2.7	ug/L	2	KED
|	Cd-1	114	16718.4	0.6	39.2458	0.524	1.3	ug/L	2	KED
>	In-1	115	8272.7	0.9				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		101.876
|	Cr	52		
|	Cr	53		
>	Ge	72		95.656
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-007-01dMSD 2X

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Cd	114	
In	115	86.888
Tb	159	90.977
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.836
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	106.475

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 04, 2022 10:22:03

Report Date/Time: Monday, February 07, 2022 15:17:07

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 6.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	490367.4	1.9				ug/L	507512	Standard
|	Cr	52	489684.8	2.2	39.9836	0.214	0.5	ug/L	5032	Standard
|	Cr	53	56654.5	1.4	40.5097	0.262	0.6	ug/L	183	Standard
>	Ge	72	289247.3	1.9				ug/L	285368	Standard
|	As	75	52806.0	1.5	40.5861	0.303	0.7	ug/L	3289	Standard
|	As-1	75	52794.7	1.6	39.6317	0.157	0.4	ug/L	101	Standard
|	Se	77	4003.6	1.5	41.1436	0.202	0.5	ug/L	57	Standard
|	Se	78	18303.1	1.4	41.9816	0.353	0.8	ug/L	3913	Standard
|	Br	79	376.0	1.0				ug/L	650	Standard
|	Se	82	7203.8	2.7	38.4790	0.771	2.0	ug/L	92	Standard
|	Kr	83	80.0	22.7				ug/L	94	Standard
|	Y	89	689318.9	0.9				ug/L	723820	Standard
|	Rh	103	540669.2	1.4				ug/L	571558	Standard
|	Cd	111	105253.3	1.4	40.4739	0.599	1.5	ug/L	356	Standard
|	Cd	114	256364.0	0.8	40.0475	0.779	1.9	ug/L	18	Standard
>	In	115	403357.3	1.2				ug/L	429736	Standard
>	Tb	159	500866.6	1.7				ug/L	524852	Standard
|	Ho	165	502373.7	1.3				ug/L	525400	Standard
|	Pb	208	1471034.5	0.4	40.3409	0.599	1.5	ug/L	327	Standard
|	Bi	209	311755.6	1.1				ug/L	321896	Standard
|	Th	232	431537.3	1.0				ug/L	442878	Standard
|	Cr-1	52	30258.7	0.4	37.6719	0.164	0.4	ug/L	8	KED
|	Cr-1	53	3713.8	1.6	38.6222	0.667	1.7	ug/L	2	KED
>	Ge-1	72	8022.9	0.5				ug/L	7398	KED
|	As-2	75	1774.8	1.3	40.1980	0.314	0.8	ug/L	1	KED
|	Y-1	89	13453.7	1.5				ug/L	12816	KED
|	Rh-1	103	88253.4	0.3				ug/L	85107	KED
|	Cd-1	111	7083.8	1.0	39.6137	1.239	3.1	ug/L	2	KED
|	Cd-1	114	18416.1	2.0	39.2704	0.564	1.4	ug/L	2	KED
>	In-1	115	9109.1	3.3				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		96.622
|	Cr	52	99.959	
|	Cr	53	101.274	
>	Ge	72		101.359
|	As	75	101.465	
|	As-1	75	99.079	
|	Se	77	102.859	
	Se	78	104.954	
	Br	79		
	Se	82	96.197	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	101.185	

Sample ID: QC Std 6

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Cd	114	100.119	
In	115		93.862
Tb	159		95.430
Ho	165		
Pb	208	100.852	
Bi	209		
Th	232		
Cr-1	52	94.180	
Cr-1	53	96.556	
Ge-1	72		108.443
As-2	75	100.495	
Y-1	89		
Rh-1	103		
Cd-1	111	99.034	
Cd-1	114	98.176	
In-1	115		117.239

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 04, 2022 10:27:43

Report Date/Time: Monday, February 07, 2022 15:17:12

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 7.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	477126.5	1.9				ug/L	507512	Standard
|	Cr	52	238458.8	2.9	19.8102	0.361	1.8	ug/L	5032	Standard
|	Cr	53	27072.0	3.4	19.8254	0.336	1.7	ug/L	183	Standard
>	Ge	72	279514.3	3.3				ug/L	285368	Standard
|	As	75	26538.4	1.3	19.8048	0.542	2.7	ug/L	3289	Standard
|	As-1	75	24831.1	1.7	19.2607	0.624	3.2	ug/L	101	Standard
|	Se	77	1946.8	3.5	20.4027	0.354	1.7	ug/L	57	Standard
|	Se	78	10942.9	0.5	21.5646	0.952	4.4	ug/L	3913	Standard
|	Br	79	285.3	3.5				ug/L	650	Standard
|	Se	82	3534.1	3.2	19.3056	1.078	5.6	ug/L	92	Standard
|	Kr	83	90.0	12.6				ug/L	94	Standard
|	Y	89	675968.2	0.3				ug/L	723820	Standard
|	Rh	103	523794.7	1.8				ug/L	571558	Standard
|	Cd	111	49780.0	1.3	19.8182	0.380	1.9	ug/L	356	Standard
|	Cd	114	121751.8	0.5	19.7515	0.077	0.4	ug/L	18	Standard
>	In	115	388326.5	0.8				ug/L	429736	Standard
>	Tb	159	480097.8	0.6				ug/L	524852	Standard
|	Ho	165	481707.9	0.3				ug/L	525400	Standard
|	Pb	208	695335.0	0.3	19.8865	0.167	0.8	ug/L	327	Standard
|	Bi	209	301579.9	1.0				ug/L	321896	Standard
|	Th	232	413278.7	0.8				ug/L	442878	Standard
|	Cr-1	52	14405.3	2.1	18.4034	0.382	2.1	ug/L	8	KED
|	Cr-1	53	1700.1	2.5	18.1373	0.438	2.4	ug/L	2	KED
>	Ge-1	72	7816.1	0.1				ug/L	7398	KED
|	As-2	75	849.0	1.4	19.7227	0.275	1.4	ug/L	1	KED
|	Y-1	89	13003.6	0.3				ug/L	12816	KED
|	Rh-1	103	85267.7	0.2				ug/L	85107	KED
|	Cd-1	111	3454.1	1.6	20.1489	0.490	2.4	ug/L	2	KED
|	Cd-1	114	8734.7	1.7	19.4388	0.513	2.6	ug/L	2	KED
>	In-1	115	8726.2	1.6				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.013
|	Cr	52	99.051	
|	Cr	53	99.127	
>	Ge	72		97.949
|	As	75	99.024	
|	As-1	75	96.303	
|	Se	77	102.013	
|	Se	78	107.823	
|	Br	79		
|	Se	82	96.528	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	99.091	

Sample ID: QC Std 7

Report Date/Time: Monday, February 07, 2022 15:17:12

Page 1

Cd	114	98.757	
In	115		90.364
Tb	159		91.473
Ho	165		
Pb	208	99.432	
Bi	209		
Th	232		
Cr-1	52	92.017	
Cr-1	53	90.687	
Ge-1	72		105.648
As-2	75	98.614	
Y-1	89		
Rh-1	103		
Cd-1	111	100.745	
Cd-1	114	97.194	
In-1	115		112.311

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, February 04, 2022 10:33:23

Report Date/Time: Monday, February 07, 2022 15:17:16

Method File: C:\NexIONData_kmckinney\Method\X220204A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220204A\QC Std 8.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	550914.5	1.8				ug/L	507512	Standard
|	Cr	52	6127.6	3.0	0.0488	0.006	12.0	ug/L	5032	Standard
|	Cr	53	160.7	21.8	-0.0243	0.021	85.0	ug/L	183	Standard
>	Ge	72	324278.7	1.9				ug/L	285368	Standard
|	As	75	3827.4	4.3	0.0650	0.067	102.6	ug/L	3289	Standard
|	As-1	75	110.7	14.3	-0.0029	0.010	355.1	ug/L	101	Standard
|	Se	77	57.0	13.7	-0.0763	0.066	87.1	ug/L	57	Standard
|	Se	78	4543.1	4.2	0.2503	0.281	112.1	ug/L	3913	Standard
|	Br	79	253.3	3.0				ug/L	650	Standard
|	Se	82	100.3	0.6	-0.0221	0.007	29.7	ug/L	92	Standard
|	Kr	83	100.3	12.5				ug/L	94	Standard
|	Y	89	769197.9	2.0				ug/L	723820	Standard
|	Rh	103	604120.4	0.6				ug/L	571558	Standard
|	Cd	111	351.2	1.6	-0.0073	0.001	14.4	ug/L	356	Standard
|	Cd	114	18.5	22.4	0.0000	0.001	2946.9	ug/L	18	Standard
>	In	115	449335.3	1.3				ug/L	429736	Standard
>	Tb	159	548379.4	0.4				ug/L	524852	Standard
|	Ho	165	555758.2	1.3				ug/L	525400	Standard
|	Pb	208	494.7	5.8	0.0038	0.001	19.1	ug/L	327	Standard
|	Bi	209	343294.1	1.0				ug/L	321896	Standard
|	Th	232	477025.3	0.9				ug/L	442878	Standard
|	Cr-1	52	20.0	5.0	0.0121	0.001	10.3	ug/L	8	KED
|	Cr-1	53	2.7	94.4	0.0060	0.023	389.2	ug/L	2	KED
>	Ge-1	72	8886.4	1.6				ug/L	7398	KED
|	As-2	75	1.3	86.6	-0.0054	0.024	438.0	ug/L	1	KED
|	Y-1	89	15089.6	0.8				ug/L	12816	KED
|	Rh-1	103	99343.9	1.1				ug/L	85107	KED
|	Cd-1	111	0.7	173.2	-0.0075	0.006	79.8	ug/L	2	KED
|	Cd-1	114	1.9	58.5	-0.0023	0.002	93.1	ug/L	2	KED
>	In-1	115	9992.3	1.4				ug/L	7770	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.552
|	Cr	52		
|	Cr	53		
>	Ge	72		113.635
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, February 07, 2022 15:17:16

Page 1

Cd	114	
In	115	104.561
Tb	159	104.483
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	120.115
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	128.607

Dissolved Methane
RSK 175

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220208\0208002.D
 Acq On : 8 Feb 2022 9:27
 Sample : MB0208W1
 Misc :

Vial: 2
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:38 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Vial 1
 Multiplr 1.00
 Sample Amount 0.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.75	21776	3.762 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

*2/8/22
NM*

Quantitation Report

Data File : E:\1\DATA\L220208\0208002.D
Acq On : 8 Feb 2022 9:27
Sample : MB0208W1
Misc :

Vial: 2
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:38 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)

Title : Gases

Last Update : Thu Dec 02 14:49:12 2021

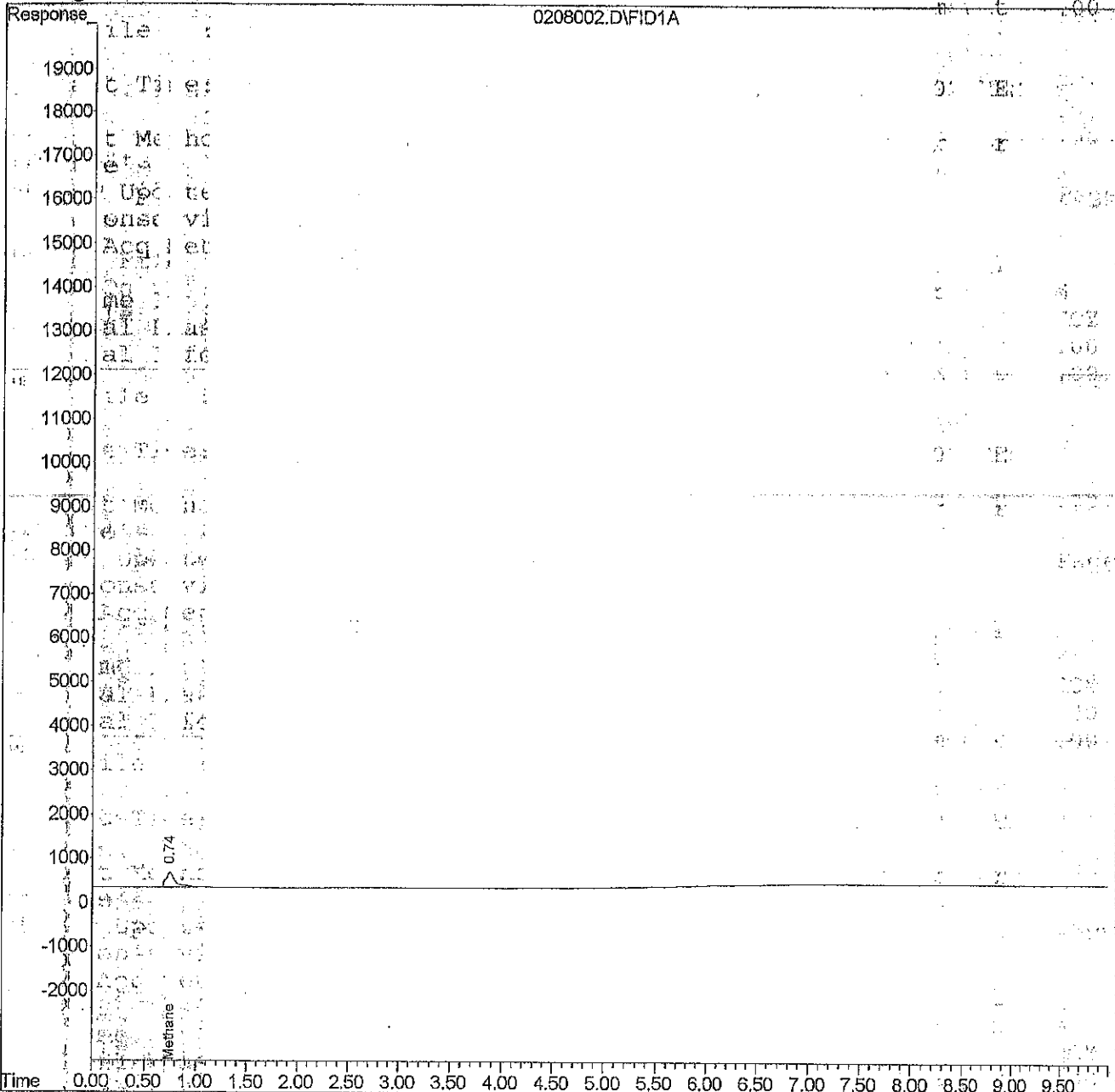
Response via : Multiple Level Calibration

DataAcq Meth : L211202.M

Volume Inj :

Signal Phase :

Signal Info :



Quantitation Report (Not Reviewed)

Data File : e:\1\DATA\L220208\0208006.D
 Acq On : 8 Feb 2022 11:12
 Sample : SB0208W1 RRR
 Misc :

Vial: 6
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:18 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj : M
 Signal Phase : UCY
 Signal Info : .00
 .00

Compound	R.T.	Response	Conc Units

Target Compounds			0.00
1) Methane	0.70	1339287	334.455 ppm
2) Ethane	0.84	2578946	306.491 ppm
3) Ethene	1.07	1896971	215.124 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220208\0208006.D
Acq On : 8 Feb 2022 11:12
Sample : SB0208W1 RRR
Misc :

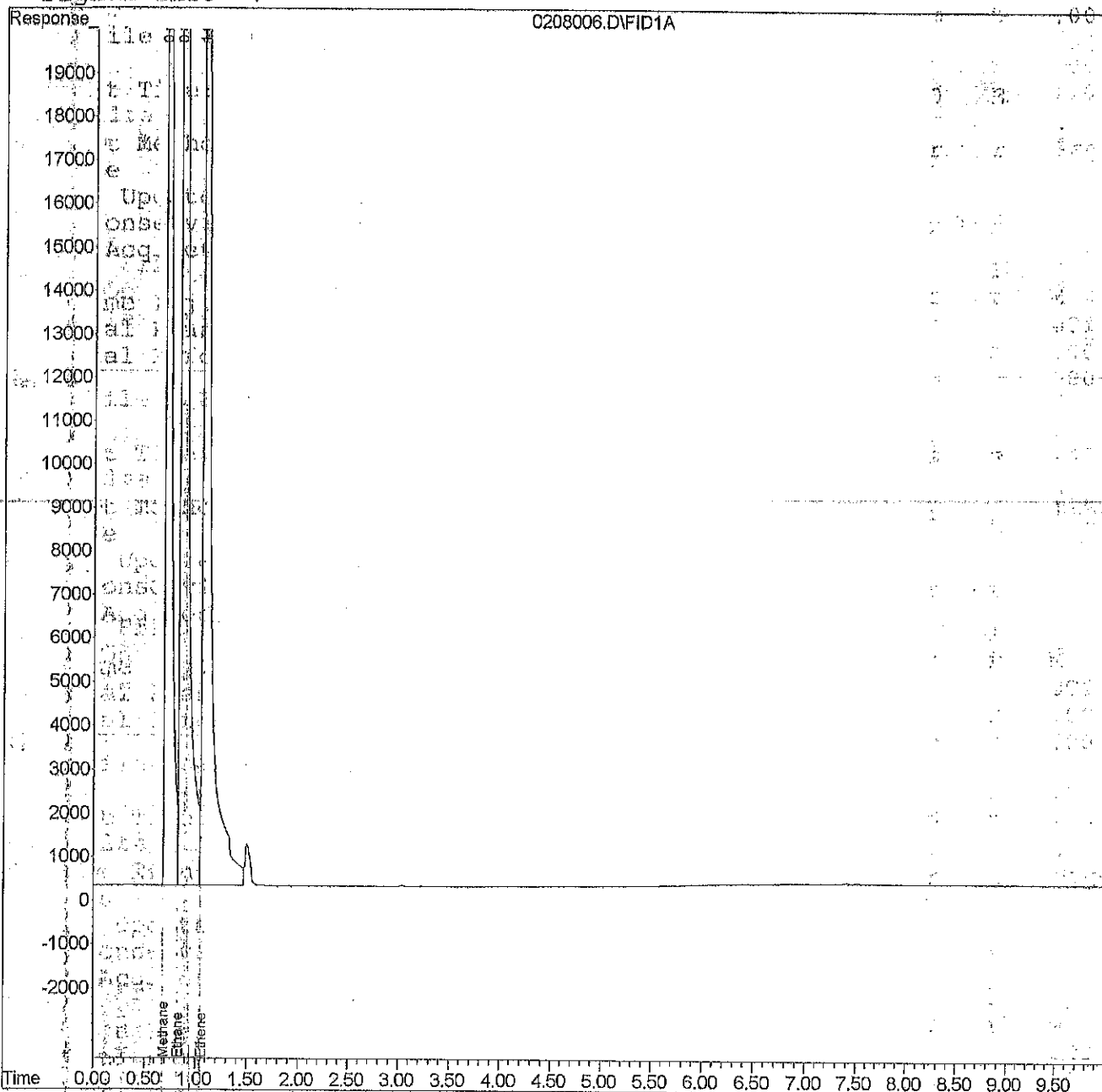
Vial: 6
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:18 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj : M
Signal Phase : LUCY
Signal Info : .00



Quantitation Report (Not Reviewed)

Data File : e:\1\DATA\L220208\0208007.D
 Acq On : 8 Feb 2022 11:27
 Sample : SB0208W1 DUP RR
 Misc :

Vial: 7
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:37 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

1.00
 M
 100
 100
 100

Compound	R.T.	Response	Conc Units

C T i e:			
Target Compounds			
1) Methane	0.70	1388998	346.933 ppm
2) Ethane	0.84	2681086	318.643 ppm
3) Ethene	1.07	1991603	225.856 ppm
4) 1-Butene	4.68	816	4560.093 ppm

Quantitation Report

Data File : e:\1\DATA\L220208\0208007.D
Acq On : 8 Feb 2022 11:27
Sample : SB0208W1 DUP RR
Misc :

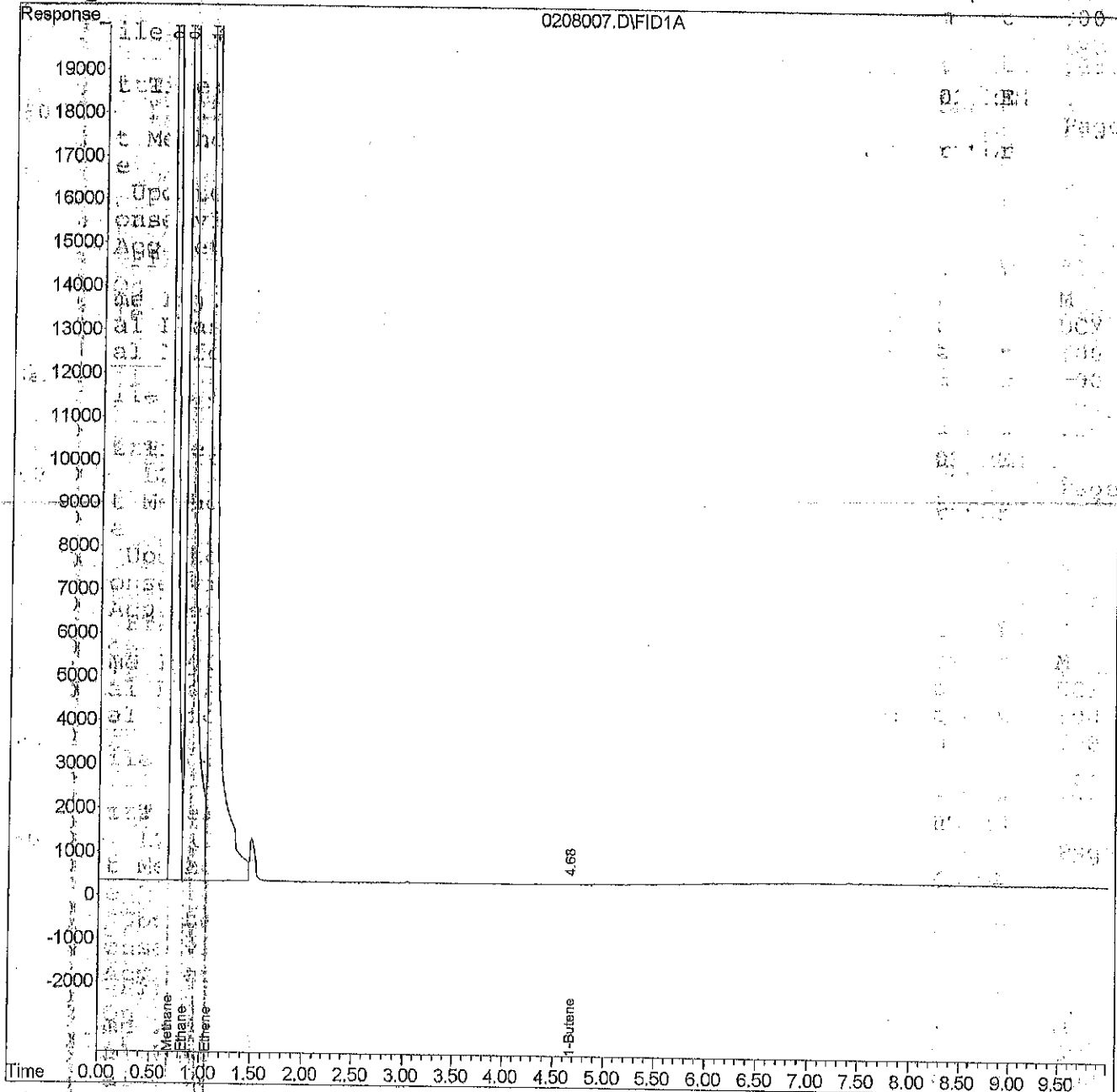
Vial: 7
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:37 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAgg Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : e:\1\DATA\L220208\0208001.D Vial: 1
 Acq On : 8 Feb 2022 8:27 Operator: NM
 Sample : CCV0208DG-L1 Inst : LUCY
 Misc : DG1-002-21 Multiplr: 1.00
 IntFile : autoint1.e Sample Amount: 0.00

Quant Time: Feb 8 8:36 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1972396	493.364 ppm
2) Ethane	0.84	4067700	483.607 ppm
3) Ethene	1.06	4322137	490.167 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220208\0208001.D
Acq On : 8 Feb 2022 8:27
Sample : CCV0208DG-L1
Misc : DG1-002-21

Vial: 1
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

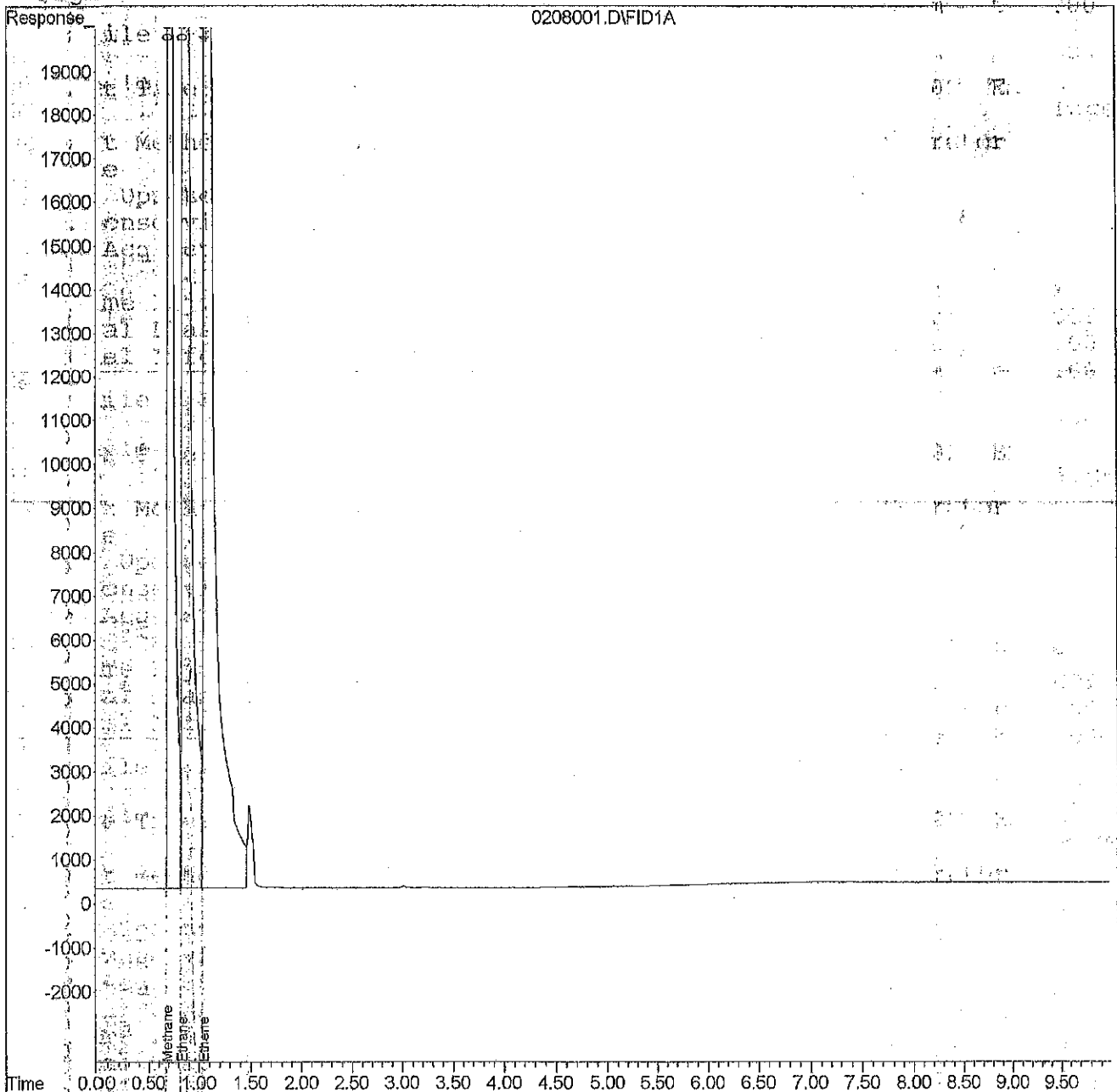
IntFile : autoint1.e

Quant Time: Feb 8 8:36 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :

M
GCY
.00
100



Quantitation Report (Not Reviewed)

Data File : e:\1\DATA\L220208\0208009.D
 Acq On : 8 Feb 2022 12:42
 Sample : 02-007-01 10X
 Misc :

Vial: 9
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 12:40 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	3702299	927.567 ppm
2) Ethane	0.70	3702299	440.135 ppm
3) Ethene	1.07	82134	9.300 ppm
4) 1-Butene	4.54	5913	33054.096 ppm

Quantitation Report

Data File : e:\1\DATA\L220208\0208009.D
Acq On : 8 Feb 2022 12:42
Sample : 02-007-01 10X
Misc :

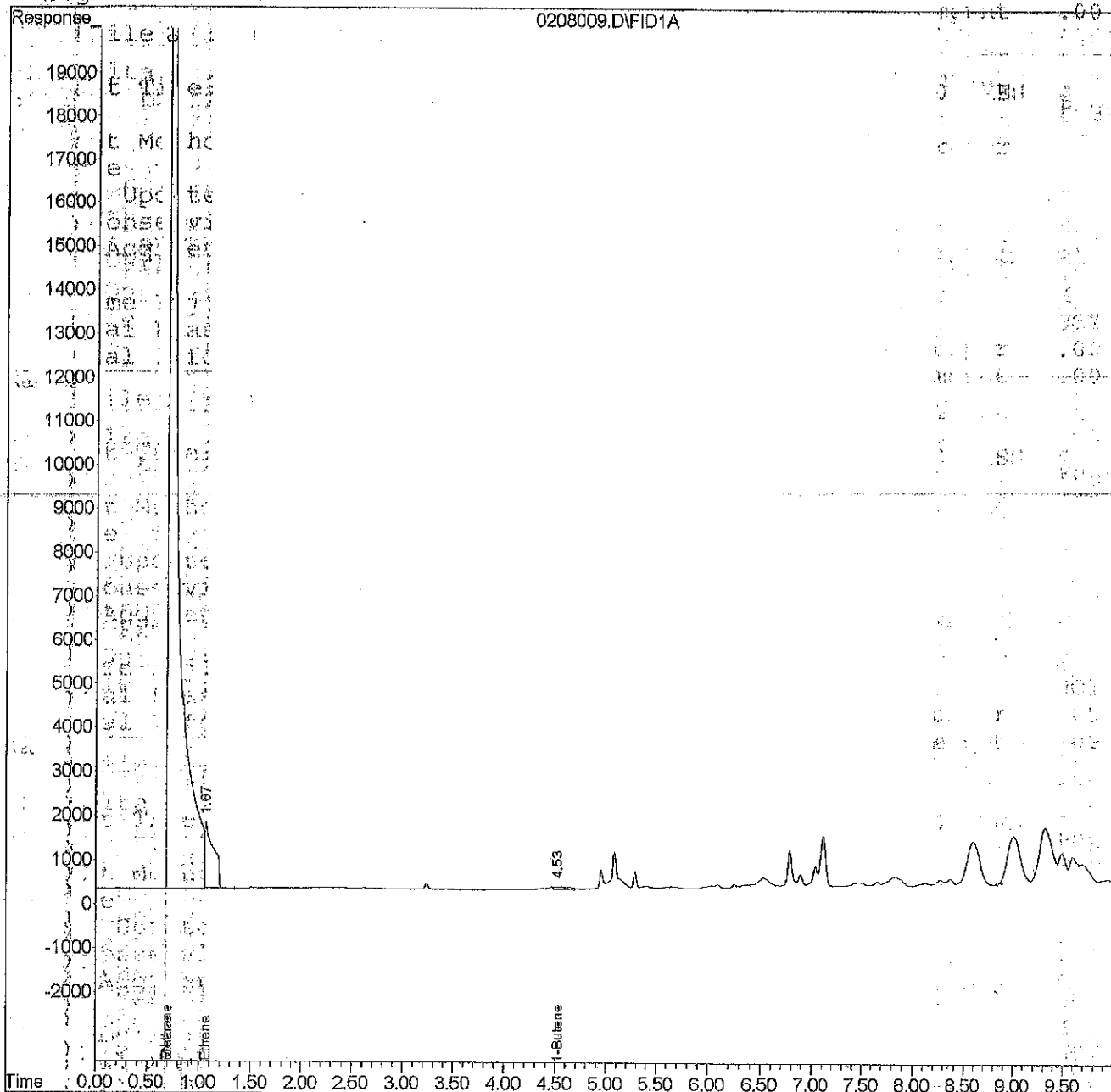
Vial: 9
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 12:40 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : e:\1\DATA\L220208\0208020.D
 Acq On : 8 Feb 2022 15:58
 Sample : CCV0208DG-L2
 Misc :
 IntFile : autoint1.e

Vial: 20
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Feb 8 15:57 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Page
 M
 UCY
 .00
 .00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1961509	490.632 ppm
2) Ethane	0.84	4112968	488.992 ppm
3) Ethene	1.08	4304880	488.210 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220208\0208020.D
Acq On : 8 Feb 2022 15:58
Sample : CCV0208DG-L2
Misc :

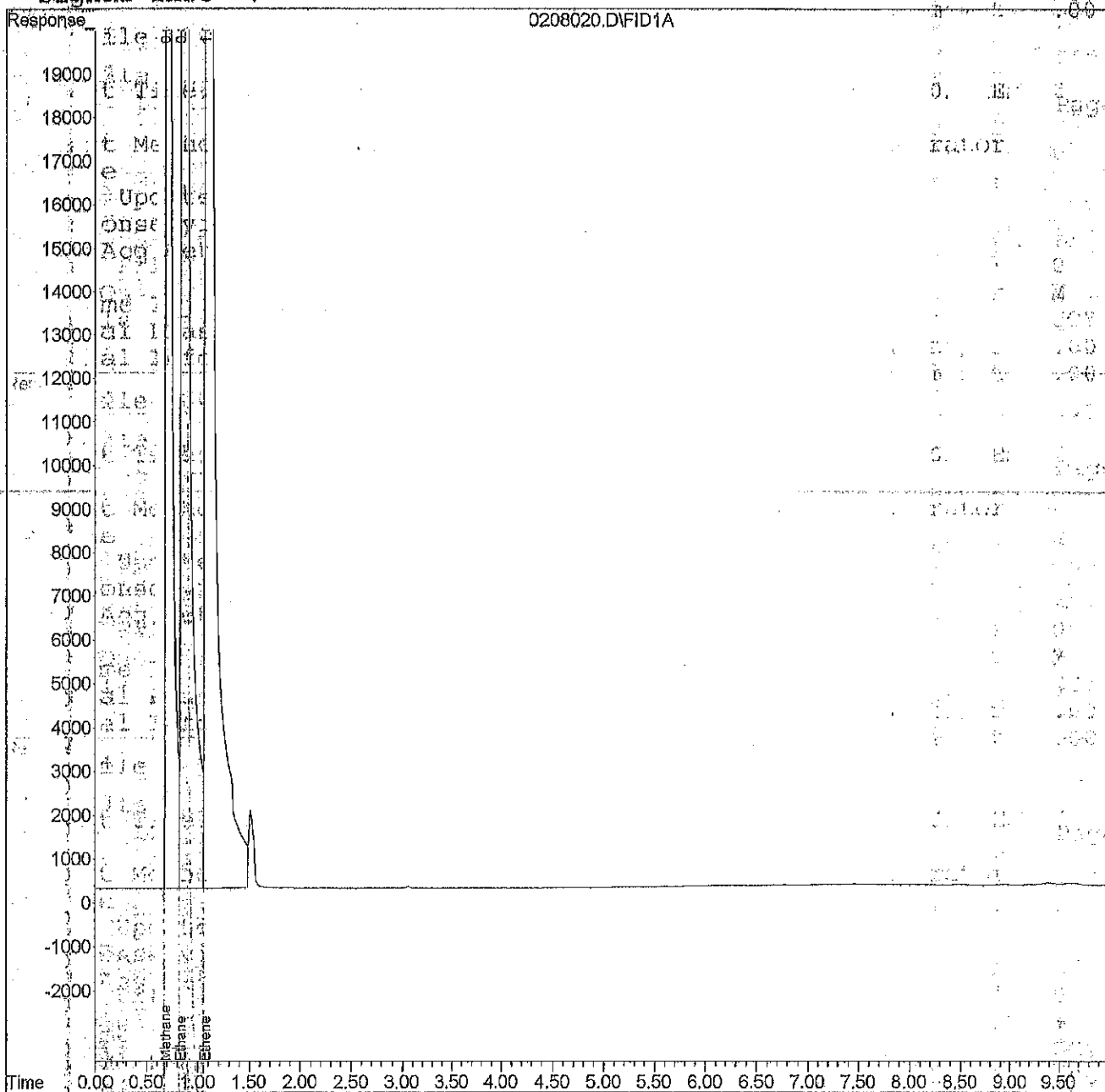
Vial: 20
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 15:57 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAgg Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :



Alkalinity
SM 2320B Data

Alkalinity
Method SM2320 B

Date Analyzed: 2/14/22
 Analyst: OVI
 Titrant Lot #: 2170561100

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 0214W1	002N	50	X	X	0.05	
SB 0214W1		25			265-0.05 = 2.60	Spike ID = .60
02-007-01e					9.15-2.65 = 6.5	
↓ -01e DUF					6.4	REFILL
02-092-01e					10-6.4 = 3.6 + 4.05 = 7.65	
↓ -02e					7.2-4.05 = 3.15	
02-068-01e					9.7-7.2 = 2.5	
↓ -02e					5.5	REFILL
↓ -03e					10-5.5 = 4.5 + 2.45 = 6.95	
↓ -04e					9.45-2.45 = 7.0	REFILL 2/14
↓ -05e					4.7	REFILL
↓ -06e					10-4.7 = 5.3 + 5.6 = 10.9	
02-136-01					6.4-5.6 = 0.80	
02-137-01					6.85-6.4 = 0.45	
↓ -02					7.45-6.85 = 0.60	
↓ -03		↓			7.8-7.45 = 0.35	
↓ -01		100			9.6-7.8 = 1.8	
↓ -03		100	↓	↓	1.45	REFILL
02-141-01c		25	7.48	X	7.3	REFILL
↓ -02c	✓	↓	7.59	X	7.15	REFILL



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 16, 2022

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-024-11
Laboratory Reference No. 2202-068

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on February 4, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", enclosed within a large, loopy circular scribble.

Blair Goodrow
Project Manager

Enclosures



Date of Report: February 16, 2022
Samples Submitted: February 4, 2022
Laboratory Reference: 2202-068
Project: 5147-024-11

Case Narrative

Samples were collected on February 2 and 3, 2022 and received by the laboratory on February 4, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: February 16, 2022
Samples Submitted: February 4, 2022
Laboratory Reference: 2202-068
Project: 5147-024-11

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-14_020222	02-068-01	Water	2-2-22	2-4-22	
MW-13_020222	02-068-02	Water	2-2-22	2-4-22	
MW-1A_020222	02-068-03	Water	2-2-22	2-4-22	
DUP-1_020222	02-068-04	Water	2-2-22	2-4-22	
MW-4_020322	02-068-05	Water	2-3-22	2-4-22	
MW-15_020322	02-068-06	Water	2-3-22	2-4-22	



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	91	66-117				
Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	91	66-117				
Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	66-117				
Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	66-117				
Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	66-117				
Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Gasoline	ND	110	NWTPH-Gx	2-8-22	2-8-22	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	66-117				



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	116	50-150				

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Diesel Range Organics	0.21	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	0.23	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Diesel Range Organics	0.31	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	0.26	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Diesel Range Organics	0.39	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	0.31	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	110	50-150				

Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	119	50-150				

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Diesel Range Organics	1.2	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	0.52	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	102	75-127
<i>Toluene-d8</i>	99	80-127
<i>4-Bromofluorobenzene</i>	101	78-125

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	2.7	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	0.32	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	103	75-127
<i>Toluene-d8</i>	100	80-127
<i>4-Bromofluorobenzene</i>	102	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	101	75-127
<i>Toluene-d8</i>	99	80-127
<i>4-Bromofluorobenzene</i>	99	78-125

Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	99	75-127
<i>Toluene-d8</i>	98	80-127
<i>4-Bromofluorobenzene</i>	97	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	101	75-127
<i>Toluene-d8</i>	99	80-127
<i>4-Bromofluorobenzene</i>	97	78-125

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	99	75-127
<i>Toluene-d8</i>	99	80-127
<i>4-Bromofluorobenzene</i>	95	78-125



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Arsenic	6.2	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	



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DISSOLVED METALS
EPA 200.8/6010D/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Arsenic	4.7	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Manganese	55	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Arsenic	ND	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Manganese	150	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	

Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Arsenic	ND	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Manganese	100	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	

Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Arsenic	ND	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Manganese	100	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	



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DISSOLVED METALS
EPA 200.8/6010D/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Arsenic	ND	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Manganese	1600	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Arsenic	ND	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Manganese	4800	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	



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**DISSOLVED METHANE
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Methane	28	0.55	RSK 175	2-8-22	2-8-22	

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Methane	490	3.3	RSK 175	2-8-22	2-8-22	

Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Methane	800	5.5	RSK 175	2-8-22	2-8-22	

Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Methane	780	5.5	RSK 175	2-8-22	2-8-22	

Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Methane	1700	11	RSK 175	2-8-22	2-8-22	

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Methane	14000	220	RSK 175	2-8-22	2-8-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_020222					
Laboratory ID:	02-068-01					
Total Alkalinity	100	2.0	SM 2320B	2-14-22	2-14-22	

Client ID:	MW-13_020222					
Laboratory ID:	02-068-02					
Total Alkalinity	220	2.0	SM 2320B	2-14-22	2-14-22	

Client ID:	MW-1A_020222					
Laboratory ID:	02-068-03					
Total Alkalinity	280	2.0	SM 2320B	2-14-22	2-14-22	

Client ID:	DUP-1_020222					
Laboratory ID:	02-068-04					
Total Alkalinity	280	2.0	SM 2320B	2-14-22	2-14-22	

Client ID:	MW-4_020322					
Laboratory ID:	02-068-05					
Total Alkalinity	190	2.0	SM 2320B	2-14-22	2-14-22	

Client ID:	MW-15_020322					
Laboratory ID:	02-068-06					
Total Alkalinity	440	2.0	SM 2320B	2-14-22	2-14-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0208W1					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	91	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-068-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
Fluorobenzene				91	90	66-117		



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**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0208G-1	2.50	2.51	0	+/- 20%
CCVH0208G-2	2.50	2.39	4	+/- 20%



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0209W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	2-9-22	2-10-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	2-9-22	2-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				
Laboratory ID:	MB0209W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0209W1							
	ORIG	DUP						
Diesel Fuel #2	0.460	0.417	NA	NA	NA	NA	10	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				101	89	50-150		
Laboratory ID:	SB0209W1							
	ORIG	DUP						
Diesel Fuel #2	0.495	0.484	NA	NA	NA	NA	2	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				110	108	50-150		



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0210R-V3	100	99.3	0.7	+/-15%
CCV0210R-V4	100	94.7	5.3	+/-15%
CCV0211F-V2	100	94.2	5.8	+/-15%
CCV0211F-V3	100	97.1	2.9	+/-15%
CCV0211R-V2	100	94.7	5.3	+/-15%
CCV0211R-V3	100	93.5	6.5	+/-15%
CCV0211R-V4	100	92.8	7.2	+/-15%



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0207W1					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-7-22	2-7-22	
n-Hexane	ND	1.0	EPA 8260D	2-7-22	2-7-22	
Benzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Toluene	ND	1.0	EPA 8260D	2-7-22	2-7-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-22	2-7-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-7-22	2-7-22	
o-Xylene	ND	0.20	EPA 8260D	2-7-22	2-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	101	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0207W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.47	9.34	10.0	10.0	95	93	78-125	1	19	
Benzene	9.49	9.42	10.0	10.0	95	94	80-119	1	16	
Trichloroethene	9.76	9.88	10.0	10.0	98	99	80-121	1	18	
Toluene	9.26	9.25	10.0	10.0	93	93	80-117	0	18	
Chlorobenzene	9.46	9.76	10.0	10.0	95	98	80-117	3	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	98	75-127			
<i>Toluene-d8</i>					100	100	80-127			
<i>4-Bromofluorobenzene</i>					100	101	78-125			



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0210WM1					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	

Laboratory ID:	MB0211W1					
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-092-01							
	ORIG	DUP						
Arsenic	4.60	4.38	NA	NA	NA	NA	5	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	02-068-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	02-092-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	126	128	111	111	4.60	110	111	75-125	1	20
Cadmium	112	113	111	111	ND	101	102	75-125	1	20
Chromium	105	102	111	111	ND	95	92	75-125	3	20
Lead	104	104	111	111	ND	93	94	75-125	1	20

Laboratory ID:	02-068-02									
Mercury	6.13	6.05	6.25	6.25	ND	98	97	75-125	1	20



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV021022X	50.0	49.1	1.8	+/- 10%
Cadmium	ICV021022X	50.0	50.9	-1.8	+/- 10%
Chromium	ICV021022X	50.0	49.6	0.80	+/- 10%
Lead	ICV021022X	50.0	50.3	-0.60	+/- 10%
Mercury	ICV021122I	2.50	2.61	-4.4	+/- 10%
Arsenic	CCV1021022X	40.0	40.5	-1.3	+/- 10%
Cadmium	CCV1021022X	40.0	40.8	-2.0	+/- 10%
Chromium	CCV1021022X	40.0	38.5	3.8	+/- 10%
Lead	CCV1021022X	40.0	40.3	-0.75	+/- 10%
Mercury	CCV1021122I	2.50	2.51	0	+/- 20%
Arsenic	CCV1021022X	20.0	20.7	-3.5	+/- 10%
Cadmium	CCV1021022X	20.0	20.6	-3.0	+/- 10%
Chromium	CCV1021022X	20.0	19.4	3.0	+/- 10%
Lead	CCV1021022X	20.0	20.2	-1.0	+/- 10%
Arsenic	CCV2021022X	40.0	39.4	1.5	+/- 10%
Cadmium	CCV2021022X	40.0	41.3	-3.2	+/- 10%
Chromium	CCV2021022X	40.0	36.6	8.5	+/- 10%
Lead	CCV2021022X	40.0	39.7	0.75	+/- 10%
Mercury	CCV2021122I	2.50	2.51	-0.40	+/- 20%
Arsenic	CCV2021022X	20.0	21.6	-8.0	+/- 10%
Cadmium	CCV2021022X	20.0	19.8	1.0	+/- 10%
Chromium	CCV2021022X	20.0	18.6	7.0	+/- 10%
Lead	CCV2021022X	20.0	20.1	-0.50	+/- 10%
Arsenic	CCV3021022X	40.0	42.5	-6.3	+/- 10%
Cadmium	CCV3021022X	40.0	43.0	-7.5	+/- 10%
Chromium	CCV3021022X	40.0	36.7	8.2	+/- 10%
Lead	CCV3021022X	40.0	41.1	-2.8	+/- 10%
Mercury	CCV3021122I	2.50	2.50	0	+/- 20%
Arsenic	CCV3021022X	20.0	21.5	-7.5	+/- 10%
Cadmium	CCV3021022X	20.0	21.3	-6.5	+/- 10%
Chromium	CCV3021022X	20.0	18.1	9.5	+/- 10%
Lead	CCV3021022X	20.0	20.4	-2.0	+/- 10%



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0209D1					
Manganese	ND	11	EPA 6010D		2-9-22	
Laboratory ID:	MB0208D1					
Arsenic	ND	3.0	EPA 200.8		2-8-22	
Cadmium	ND	4.0	EPA 200.8		2-8-22	
Chromium	ND	10	EPA 200.8		2-8-22	
Lead	ND	1.0	EPA 200.8		2-8-22	
Laboratory ID:	MB0211D1					
Mercury	ND	0.025	EPA 7470A		2-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	02-050-01									
	ORIG	DUP								
Manganese	259	259	NA	NA	NA	NA	0	20		
Laboratory ID:	02-068-01									
Arsenic	4.72	4.10	NA	NA	NA	NA	14	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	02-068-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	02-050-01									
	MS	MSD	MS	MSD	MS	MSD				
Manganese	764	759	556	556	259	91	90	75-125	1	20
Laboratory ID:	02-068-01									
Arsenic	76.4	83.0	80.0	80.0	4.72	90	98	75-125	8	20
Cadmium	73.2	75.8	80.0	80.0	ND	92	95	75-125	3	20
Chromium	74.4	77.6	80.0	80.0	ND	93	97	75-125	4	20
Lead	71.4	73.6	80.0	80.0	ND	89	92	75-125	3	20
Laboratory ID:	02-068-01									
Mercury	5.93	5.98	6.25	6.25	ND	95	96	75-125	1	20



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV020822X	50.0	49.1	1.8	+/- 10%
Cadmium	ICV020822X	50.0	49.7	0.60	+/- 10%
Chromium	ICV020822X	50.0	51.9	-3.8	+/- 10%
Lead	ICV020822X	50.0	50.3	-0.60	+/- 10%
Manganese	ICV020922B	1000	1020	-2.0	+/- 10%
Mercury	ICV021122I	2.50	2.61	-4.4	+/- 10%
Manganese	LLV020922B	10.0	10.7	-7.0	+/- 20%
Arsenic	CCV1020822X	40.0	37.9	5.3	+/- 10%
Cadmium	CCV1020822X	40.0	39.9	0.25	+/- 10%
Chromium	CCV1020822X	40.0	39.7	0.75	+/- 10%
Lead	CCV1020822X	40.0	39.8	0.50	+/- 10%
Manganese	CCV1020922B	1000	1000	0	+/- 10%
Mercury	CCV1021122I	2.50	2.51	0	+/- 20%
Arsenic	CCV1020822X	20.0	19.6	2.0	+/- 10%
Cadmium	CCV1020822X	20.0	19.8	1.0	+/- 10%
Chromium	CCV1020822X	20.0	19.2	4.0	+/- 10%
Lead	CCV1020822X	20.0	19.8	1.0	+/- 10%
Arsenic	CCV2020822X	40.0	38.5	3.8	+/- 10%
Cadmium	CCV2020822X	40.0	39.8	0.50	+/- 10%
Chromium	CCV2020822X	40.0	38.5	3.8	+/- 10%
Lead	CCV2020822X	40.0	39.5	1.3	+/- 10%
Manganese	CCV2020922B	1000	957	4.3	+/- 10%
Mercury	CCV2021122I	2.50	2.51	-0.40	+/- 20%
Arsenic	CCV2020822X	20.0	19.1	4.5	+/- 10%
Cadmium	CCV2020822X	20.0	19.7	1.5	+/- 10%
Chromium	CCV2020822X	20.0	19.4	3.0	+/- 10%
Lead	CCV2020822X	20.0	19.5	2.5	+/- 10%
Arsenic	CCV3020822X	40.0	38.1	4.8	+/- 10%
Cadmium	CCV3020822X	40.0	39.5	1.3	+/- 10%
Chromium	CCV3020822X	40.0	38.4	4.0	+/- 10%
Lead	CCV3020822X	40.0	39.5	1.3	+/- 10%
Manganese	CCV3020922B	1000	954	4.6	+/- 10%
Mercury	CCV3021122I	2.50	2.50	0	+/- 20%
Arsenic	CCV3020822X	20.0	18.6	7.0	+/- 10%
Cadmium	CCV3020822X	20.0	20.1	-0.50	+/- 10%
Chromium	CCV3020822X	20.0	19.1	4.5	+/- 10%
Lead	CCV3020822X	20.0	19.5	2.5	+/- 10%



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Manganese	CCV4020922B	1000	911	8.9	+/- 10%
Mercury	CCV4021122I	2.50	2.34	6.4	+/- 20%
Manganese	CCV5020922B	1000	941	5.9	+/- 10%
Mercury	CCV5021122I	2.50	2.49	0.40	+/- 20%
Manganese	CCV5020922B	1000	955	4.5	+/- 10%
Mercury	CCV6021122I	2.50	2.49	0.40	+/- 20%



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0208W1					
Methane	ND	0.55	RSK 175	2-8-22	2-8-22	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	37.0	38.4	44.2	44.2	84	87	75-125	4	25	



Date of Report: February 16, 2022
Samples Submitted: February 4, 2022
Laboratory Reference: 2202-068
Project: 5147-024-11

**DISSOLVED METHANE
RSK 175
CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Methane	CCV0208DG-L1	500	493	1.3	+/- 15%
Methane	CCV0208DG-L2	500	491	1.9	+/- 15%



Date of Report: February 16, 2022
 Samples Submitted: February 4, 2022
 Laboratory Reference: 2202-068
 Project: 5147-024-11

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0214W1					
Total Alkalinity	ND	2.0	SM 2320B	2-14-22	2-14-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-007-01							
	ORIG	DUP						
Total Alkalinity	260	256	NA	NA	NA	NA	2	10

SPIKE BLANK								
Laboratory ID:	SB0214W1							
	SB		SB		SB			
Total Alkalinity	104		100	NA	104	89-110	NA	NA





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc
David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Quiet Cove- Post Interim Action
Work Order Number: 2202056

February 08, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 4 sample(s) on 2/2/2022 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action
Work Order: 2202056

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2202056-001	MW-14_020222	02/02/2022 9:20 AM	02/02/2022 3:56 PM
2202056-002	MW-13_020222	02/02/2022 11:15 AM	02/02/2022 3:56 PM
2202056-003	MW-1A_020222	02/02/2022 12:15 PM	02/02/2022 3:56 PM
2202056-004	DUP-1_020222	02/02/2022 12:00 PM	02/02/2022 3:56 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

2/10/22: Revision 1 includes sample name change provided by the client.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

Lab ID: 2202056-001 **Collection Date:** 2/2/2022 9:20:00 AM
Client Sample ID: MW-14_020222 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35256 Analyst: SLL

Nitrate (as N)	0.979	0.100		mg/L	1	2/3/2022 6:59:00 PM
Sulfate	19.0	3.00	D	mg/L	5	2/4/2022 7:56:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R73005 Analyst: SLL

Ferrous Iron	0.290	0.100		mg/L	1	2/2/2022 4:20:00 PM
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Lab ID: 2202056-002 **Collection Date:** 2/2/2022 11:15:00 AM
Client Sample ID: MW-13_020222 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35256 Analyst: SLL

Nitrate (as N)	ND	0.100		mg/L	1	2/3/2022 8:32:00 PM
Sulfate	40.2	3.00	D	mg/L	5	2/4/2022 8:20:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R73005 Analyst: SLL

Ferrous Iron	2.92	0.500	D	mg/L	5	2/2/2022 4:20:00 PM
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Lab ID: 2202056-003 **Collection Date:** 2/2/2022 12:15:00 PM
Client Sample ID: MW-1A_020222 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35256 Analyst: SLL

Nitrate (as N)	0.549	0.100		mg/L	1	2/3/2022 8:55:00 PM
Sulfate	16.6	3.00	D	mg/L	5	2/4/2022 8:43:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R73005 Analyst: SLL

Ferrous Iron	2.86	0.500	D	mg/L	5	2/2/2022 4:20:00 PM
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CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

Lab ID: 2202056-004

Collection Date: 2/2/2022 12:00:00 PM

Client Sample ID: DUP-1_020222

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35256

Analyst: SLL

Nitrate (as N)	ND	0.100		mg/L	1	2/3/2022 9:18:00 PM
Sulfate	16.9	3.00	D	mg/L	5	2/4/2022 9:06:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R73005

Analyst: SLL

Ferrous Iron	3.10	0.500	D	mg/L	5	2/2/2022 4:20:00 PM
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Work Order: 2202056
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R73005	SampType: MBLK	Units: mg/L	Prep Date: 2/2/2022	RunNo: 73005							
Client ID: MBLKW	Batch ID: R73005		Analysis Date: 2/2/2022	SeqNo: 1490673							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R73005	SampType: LCS	Units: mg/L	Prep Date: 2/2/2022	RunNo: 73005							
Client ID: LCSW	Batch ID: R73005		Analysis Date: 2/2/2022	SeqNo: 1490674							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.382 0.100 0.4000 0 95.4 85 115

Sample ID: 2202056-002BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/2/2022	RunNo: 73005							
Client ID: MW-13_020222	Batch ID: R73005		Analysis Date: 2/2/2022	SeqNo: 1490678							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 2.92 0.500 2.924 0 20 D

Sample ID: 2202056-002BMS	SampType: MS	Units: mg/L	Prep Date: 2/2/2022	RunNo: 73005							
Client ID: MW-13_020222	Batch ID: R73005		Analysis Date: 2/2/2022	SeqNo: 1490679							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 5.91 0.500 2.000 2.924 149 70 130 DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2202056-002BMSD	SampType: MSD	Units: mg/L	Prep Date: 2/2/2022	RunNo: 73005							
Client ID: MW-13_020222	Batch ID: R73005		Analysis Date: 2/2/2022	SeqNo: 1490680							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 5.88 0.500 2.000 2.924 148 70 130 5.908 0.557 20 DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2202056
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-35256	SampType: MBLK	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73081							
Client ID: MBLKW	Batch ID: 35256		Analysis Date: 2/3/2022	SeqNo: 1492116							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: LCS-35256	SampType: LCS	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73081							
Client ID: LCSW	Batch ID: 35256		Analysis Date: 2/3/2022	SeqNo: 1492117							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.710	0.100	0.7500	0	94.7	90	110				
Sulfate	3.58	0.600	3.750	0	95.3	90	110				

Sample ID: 2202056-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73081							
Client ID: MW-14_020222	Batch ID: 35256		Analysis Date: 2/3/2022	SeqNo: 1492119							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.978	0.100						0.9790	0.102	20	
Sulfate	21.1	0.600						21.10	0.0900	20	E

Sample ID: 2202056-001AMS	SampType: MS	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73081							
Client ID: MW-14_020222	Batch ID: 35256		Analysis Date: 2/3/2022	SeqNo: 1492120							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	1.81	0.100	0.7500	0.9790	110	80	120				
Sulfate	25.1	0.600	3.750	21.10	105	80	120				E

Work Order: 2202056
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2202056-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73081							
Client ID: MW-14_020222	Batch ID: 35256		Analysis Date: 2/3/2022	SeqNo: 1492121							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.80	0.100	0.7500	0.9790	110	80	120	1.807	0.277	20	
Sulfate	25.4	0.600	3.750	21.10	114	80	120	25.06	1.29	20	E

Client Name: **ONSITE**

 Work Order Number: **2202056**

 Logged by: **Gabrielle Coeuille**

 Date Received: **2/2/2022 3:56:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Telephone: 425.883.3881

Company: GeoEngineers, Inc.

Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action

Project Manager: Brian Tracy

Field Leads: Neil Solomon

CHAIN OF CUSTODY

2202056

Turnaround Requested:
 1 Day
 2 Day
 3 Day
 Standard

Requested Analyses

Nitrate and Sulfate EPA 300.0***		
Ferrous Iron SM 3500B ***		

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.				
	MW-4-020222	2.22.22	0920	Water	2	X	X		
	MW-13-020222	2.22.22	1115	Water	2	X	X		
	MW-14-020222	2.22.22	1215	Water	2	X	X		
	DSP-1-020222	2.2.22	1200	Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		

Relinquished by Neil Solomon Date 2.2.22
 Received by Cheryl Date 2/2/22

Comments:
 - BTEX, EDB, EDC, MTBE, n-hexane
 ... field filtered
 ... sent directly to Fremont Analytical

Relinquished by _____ Date _____
 Received by _____ Date _____
 Firm _____ Time _____ Firm _____ Time _____



Telephone: 425.883.3881

Company: GeoEngineers, Inc.

Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action

Project Manager: Brian Tracy

Field Leads: Neil Solomon

CHAIN OF CUSTODY

2202056

Turnaround Requested:
 1 Day
 2 Day
 3 Day
 Standard

Requested Analyses

Nitrate and Sulfate EPA 300.0***		
Ferrous Iron SM 350B ***		

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.			
	MW-14-020222 MW-14_020222	2.22.22	0920	Water	2	X	X	
	MW-13-020222	2.22.22	1115	Water	2	X	X	
	MW-14-020222	2.22.22	1215	Water	2	X	X	
	DSP-1-020222	2.2.22	1200	Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	
				Water	2	X	X	

Sample name change
2/10/22

Relinquished by Neil Solomon Date 2.2.22
 Received by Chen Date 2/2/22

Comments:
 - BTEX, EDB, EDC, MTBE, n-hexane
 - field filtered
 - sent directly to Fremont Analytical

Relinquished by _____ Date _____
 Received by _____ Date _____
 Firm _____ Time _____ Firm _____ Time _____



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

**RE: Quiet Cove- Post Interim Action
Work Order Number: 2202093**

February 09, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 2/3/2022 for the analyses presented in the following report.

***Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action
Work Order: 2202093

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2202093-001	MW-4_020322	02/03/2022 9:15 AM	02/03/2022 4:42 PM
2202093-002	MW-15_020322	02/03/2022 11:20 AM	02/03/2022 4:42 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

Lab ID: 2202093-001 **Collection Date:** 2/3/2022 9:15:00 AM
Client Sample ID: MW-4_020322 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35268 Analyst: SLL

Nitrate (as N)	ND	0.500	D	mg/L	5	2/4/2022 2:56:00 PM
Sulfate	6.82	3.00	D	mg/L	5	2/4/2022 2:56:00 PM

NOTES:
Diluted due to matrix.

Ferrous Iron by SM3500-Fe B

Batch ID: R73037 Analyst: SLL

Ferrous Iron	3.38	0.500	D	mg/L	5	2/3/2022 5:31:01 PM
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Lab ID: 2202093-002 **Collection Date:** 2/3/2022 11:20:00 AM
Client Sample ID: MW-15_020322 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35268 Analyst: SLL

Nitrate (as N)	0.415	0.500	DJ	mg/L	5	2/4/2022 3:19:00 PM
Sulfate	4.13	3.00	D	mg/L	5	2/4/2022 3:19:00 PM

NOTES:
Diluted due to matrix.

Ferrous Iron by SM3500-Fe B

Batch ID: R73037 Analyst: SLL

Ferrous Iron	53.4	12.5	D	mg/L	125	2/3/2022 5:31:01 PM
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Work Order: 2202093
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R73037	SampType: MBLK	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73037							
Client ID: MBLKW	Batch ID: R73037	Analysis Date: 2/3/2022	SeqNo: 1491222								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R73037	SampType: LCS	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73037							
Client ID: LCSW	Batch ID: R73037	Analysis Date: 2/3/2022	SeqNo: 1491223								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.450 0.100 0.4000 0 113 85 115

Sample ID: 2202093-002BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73037							
Client ID: MW-15_020322	Batch ID: R73037	Analysis Date: 2/3/2022	SeqNo: 1491352								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 51.4 12.5 53.43 3.91 20 D

Sample ID: 2202093-002BMS	SampType: MS	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73037							
Client ID: MW-15_020322	Batch ID: R73037	Analysis Date: 2/3/2022	SeqNo: 1491353								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 111 12.5 50.00 53.43 116 70 130 D

Sample ID: 2202093-002BMSD	SampType: MSD	Units: mg/L	Prep Date: 2/3/2022	RunNo: 73037							
Client ID: MW-15_020322	Batch ID: R73037	Analysis Date: 2/3/2022	SeqNo: 1491354								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 104 12.5 50.00 53.43 101 70 130 111.2 6.86 20 D

Work Order: 2202093
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-35268	SampType: MBLK	Units: mg/L	Prep Date: 2/4/2022	RunNo: 73118							
Client ID: MBLKW	Batch ID: 35268		Analysis Date: 2/4/2022	SeqNo: 1492995							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100
Sulfate	ND	0.600

Sample ID: LCS-35268	SampType: LCS	Units: mg/L	Prep Date: 2/4/2022	RunNo: 73118							
Client ID: LCSW	Batch ID: 35268		Analysis Date: 2/4/2022	SeqNo: 1492996							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.700	0.100	0.7500	0	93.3	90	110
Sulfate	3.45	0.600	3.750	0	92.1	90	110

Sample ID: 2202100-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/4/2022	RunNo: 73118							
Client ID: BATCH	Batch ID: 35268		Analysis Date: 2/4/2022	SeqNo: 1493000							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.208	0.100						0.2100	0.957	20	H
Sulfate	4.00	0.600						4.004	0.0750	20	

Sample ID: 2202100-001BMS	SampType: MS	Units: mg/L	Prep Date: 2/4/2022	RunNo: 73118							
Client ID: BATCH	Batch ID: 35268		Analysis Date: 2/4/2022	SeqNo: 1493001							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.921	0.100	0.7500	0.2100	94.8	80	120				H
Sulfate	7.92	0.600	3.750	4.004	104	80	120				

Work Order: 2202093
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2202100-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 2/4/2022	RunNo: 73118							
Client ID: BATCH	Batch ID: 35268		Analysis Date: 2/4/2022	SeqNo: 1493002							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.927	0.100	0.7500	0.2100	95.6	80	120	0.9210	0.649	20	H
Sulfate	7.95	0.600	3.750	4.004	105	80	120	7.916	0.429	20	

Client Name: ONSITE	Work Order Number: 2202093
Logged by: Gabrielle Coeuille	Date Received: 2/3/2022 4:42:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Telephone: 425.883.3881

Company: GeoEngineers, Inc.

Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action

Project Manager: Brian Tracy

Field Leads: Neil Solomon

CHAIN OF CUSTODY

Turnaround Requested:

1 Day

2 Day

3 Day

X Standard

Requested Analyses	
Nitrate and Sulfate EPA 300.0***	
Ferrous Iron SM 3500B ***	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.				
	MW-4-020322	2.3.22	0915	Water	2	X	X		
	MW-15-020322	2.3.22	1120	Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		

Relinquished by M. R. J. Date 2/3/22 Received by Adel S. J. Date 2/3/22

Firm FAI Time 10:42

Comments:
 - BTEX, EDR, EDC, MTBE, n-hexane
 - field filtered
 - sent directly to Fremont Analytical

Relinquished by _____ Date _____ Received by _____

Firm _____ Time _____

2207207993



14648 NE 95th Street, Redmond, WA 98052
 Telephone: 425.883.3881

Company: GeoEngineers, Inc.

Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action

Project Manager: Brian Tracy

Field Leads: Neil Solomon

CHAIN OF CUSTODY

Turnaround Requested:

1 Day
 2 Day
 3 Day
 Standard

Laboratory No. **02-068**

Requested Analyses

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-Gx	NWTPH-Dx (with and without silica gel cleanup)	Volatiles EPA 8260D *	Total MTCA Metals EPA 200.8/7470A	Dissolved MTCA Metals EPA 200.8/7470A**	Nitrate and Sulfate EPA 300.0***	Dissolved Methane RSK 175	Dissolved Manganese EPA 6010D**	Ferrous Iron SM 3500B ***	Alkalinity
1	MW-14 - 020222	2.2.22	0920	Water	11	X	X	X	X	X	X	X	X	X	X
2	MW-13. 020222	2.2.22	1115	Water	11	X	X	X	X	X	X	X	X	X	X
3	MW-1A. 020222	2.2.22	1215	Water	11	X	X	X	X	X	X	X	X	X	X
4	DWP-1. 020222	2.2.22	1200	Water	11	X	X	X	X	X	X	X	X	X	X
5	MW-4 - 020322	2.3.22	0915	Water	11	X	X	X	X	X	X	X	X	X	X
6	MW-15-020322	2.3.22	1120	Water	11	X	X	X	X	X	X	X	X	X	X
	N			Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	X

Relinquished by *[Signature]* Date 02/04/22 Received by *[Signature]* Date 2/10/22
 Firm GEI Time _____ Firm OS&E Time 1229

Relinquished by _____ Date _____ Received by _____ Date _____
 Firm _____ Time _____ Firm _____ Time _____

Comments:
 * - BTEX, EDB, EDC, MTBE, n-hexane
 ** - field filtered
 *** - sent directly to Fremont Analytical

(X) Added 2/10/22 JB (STA)

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 05147-024-11

OnSite Project Number: 02-068

Initiated by: *MM*

Date Initiated: 2/4/22

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature: <u>3</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input type="radio"/> N/A		
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	<input type="radio"/> No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input type="radio"/> No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	No	N/A 1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	No	N/A 1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input type="radio"/> N/A 1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input type="radio"/> N/A 1 2 3 4

Explain any discrepancies:

2.4) #1) MW-4 on labels

#3) no ID on 1 amber

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- Gasoline Range Organics NWTPH-Gx
- Diesel and Heavy Oil Range Organics NWTPH-Dx
- Volatiles Organics EPA 8260D
- Total Metals EPA 200.8/7470A
- Dissolved Metals EPA 200.8/7470A
- Dissolved Methane RSK 175
- Alkalinity SM 2320B

Gasoline Range Organics
NWTPH-Gx Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208004.D Vial: 4
 Acq On : 8 Feb 2022 11:45 Operator:
 Sample : 02-068-01k Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 12:11 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7796986	36.213 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11646039	41.512 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	2475139	N.D. PPM
3) H GASOLINE #2	14.70	1819524	N.D. PPM
4) MTBE #2 (1-21-22)	6.55	14438	0.195 PPB
5) BENZENE #2	8.73	4153	N.D. PPB
7) TOLUENE #2	0.00	0	N.D. PPB
8) ETHYLBENZENE #2	13.25	4199	0.150 PPB
9) m,p-XYLENE #2	13.63	191944	0.612 PPB
10) o-XYLENE #2	14.15	74825	0.300 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208004.D
Acq On : 8 Feb 2022 11:45
Sample : 02-068-01k
Misc :

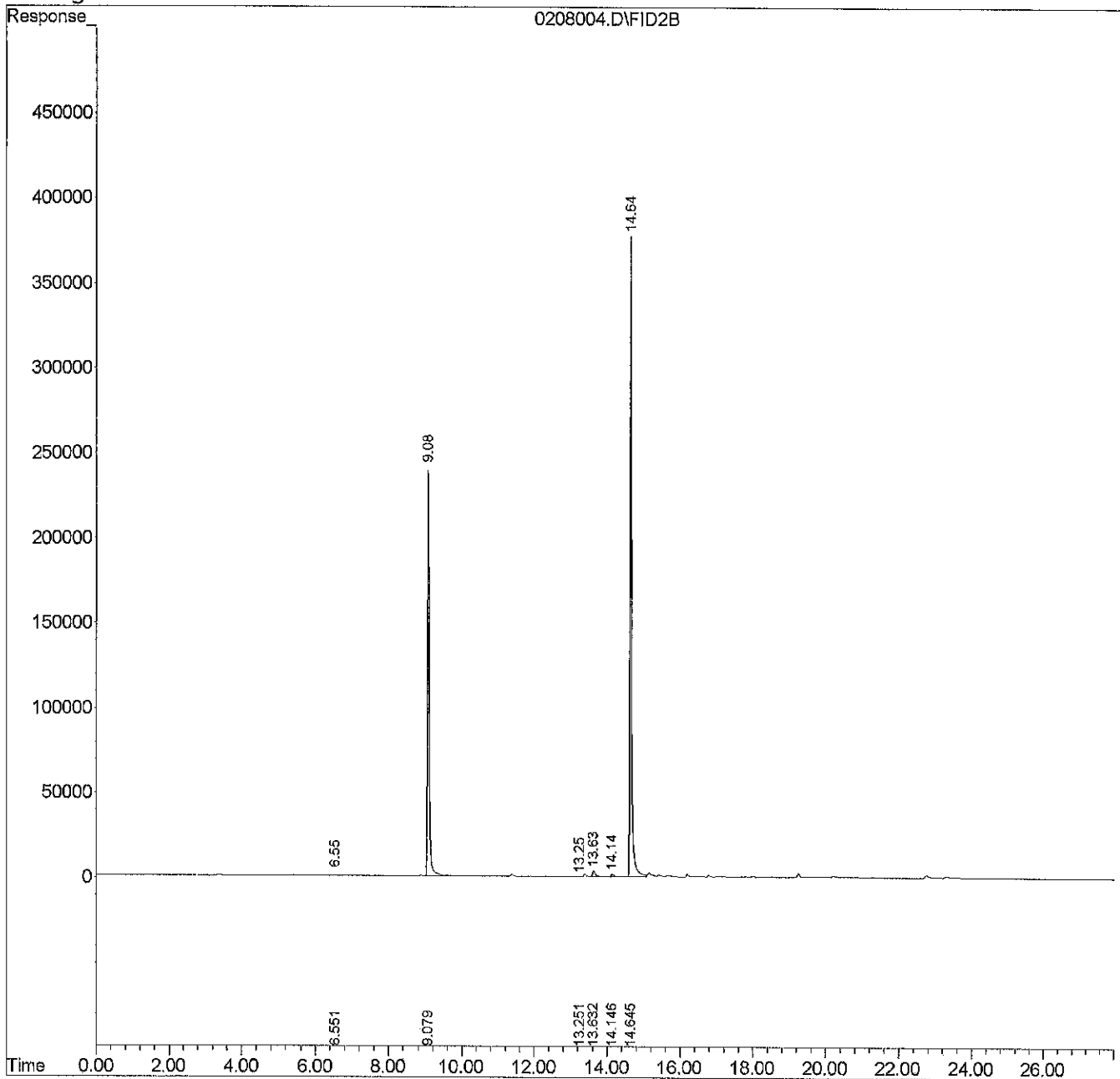
Vial: 4
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 12:11 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208006.D Vial: 6
 Acq On : 8 Feb 2022 13:01 Operator:
 Sample : 02-068-02k Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 9 14:17 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7821814	36.328 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11309407	40.307 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.11	7174022	0.030 PPM
3) H GASOLINE #2	14.73	4199409	0.019 PPM
4) MTBE #2 (1-21-22)	6.55	260298	3.515 PPB
5) BENZENE #2	8.86	1003456	3.236 PPB
7) TOLUENE #2	11.21	30300	0.083 PPB
8) ETHYLBENZENE #2	13.25	44420	0.298 PPB
9) m,p-XYLENE #2	13.64	176119	0.562 PPB
10) o-XYLENE #2	14.15	33929	0.149 PPB

m BCLJ
2-11

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208006.D
Acq On : 8 Feb 2022 13:01
Sample : 02-068-02k
Misc :

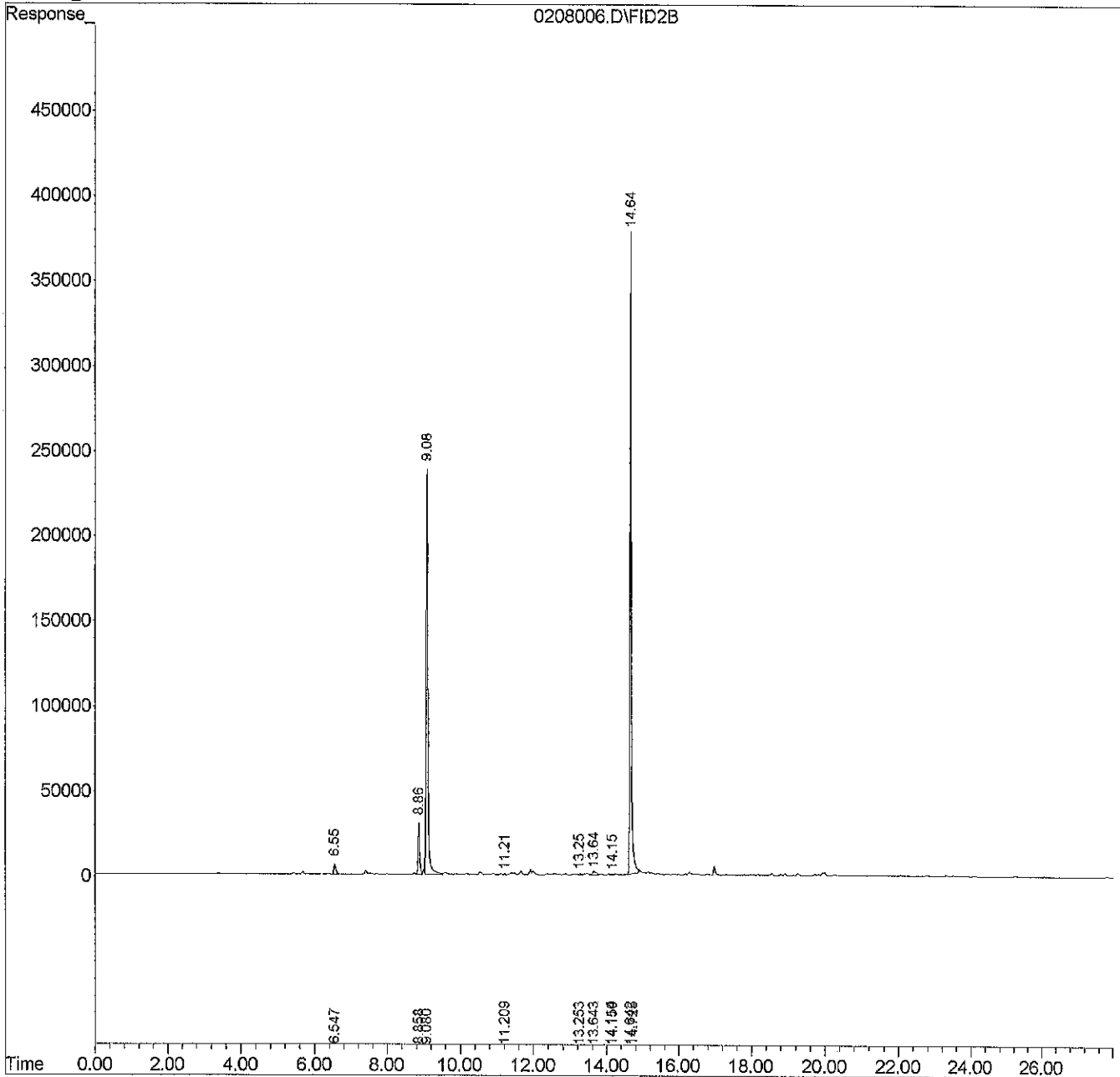
Vial: 6
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 9 14:17 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220208\0208007.D           Vial: 7
Acq On    : 8 Feb 2022 13:46                             Operator:
Sample    : 02-068-03k                                    Inst  : Hope
Misc      :                                               Multiplr: 1.00
                                                Sample Amount: 0.00

IntFile   : EVENTS1.E
    
```

Quant Time: Feb 8 14:00 2022 Quant Results File: 211025G.RES

```

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Tue Feb 01 09:42:14 2022
Response via : Initial Calibration
DataAcq Meth : 211025G.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7757524	36.029 PPB
11) S BROMOFLUOROBENZENE #2	14.65	11614830	41.400 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	3745227	0.006 PPM
3) H GASOLINE #2	14.70	2764751	0.008 PPM
4) MTBE #2 (1-21-22)	6.56	12430	0.168 PPB
5) BENZENE #2	8.72	5775	N.D. PPB
7) TOLUENE #2	11.31	2160	N.D. PPB
8) ETHYLBENZENE #2	13.26	4337	0.151 PPB
9) m,p-XYLENE #2	13.56	11810	0.049 PPB
10) o-XYLENE #2	14.05	2796	0.034 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208007.D
Acq On : 8 Feb 2022 13:46
Sample : 02-068-03k
Misc :

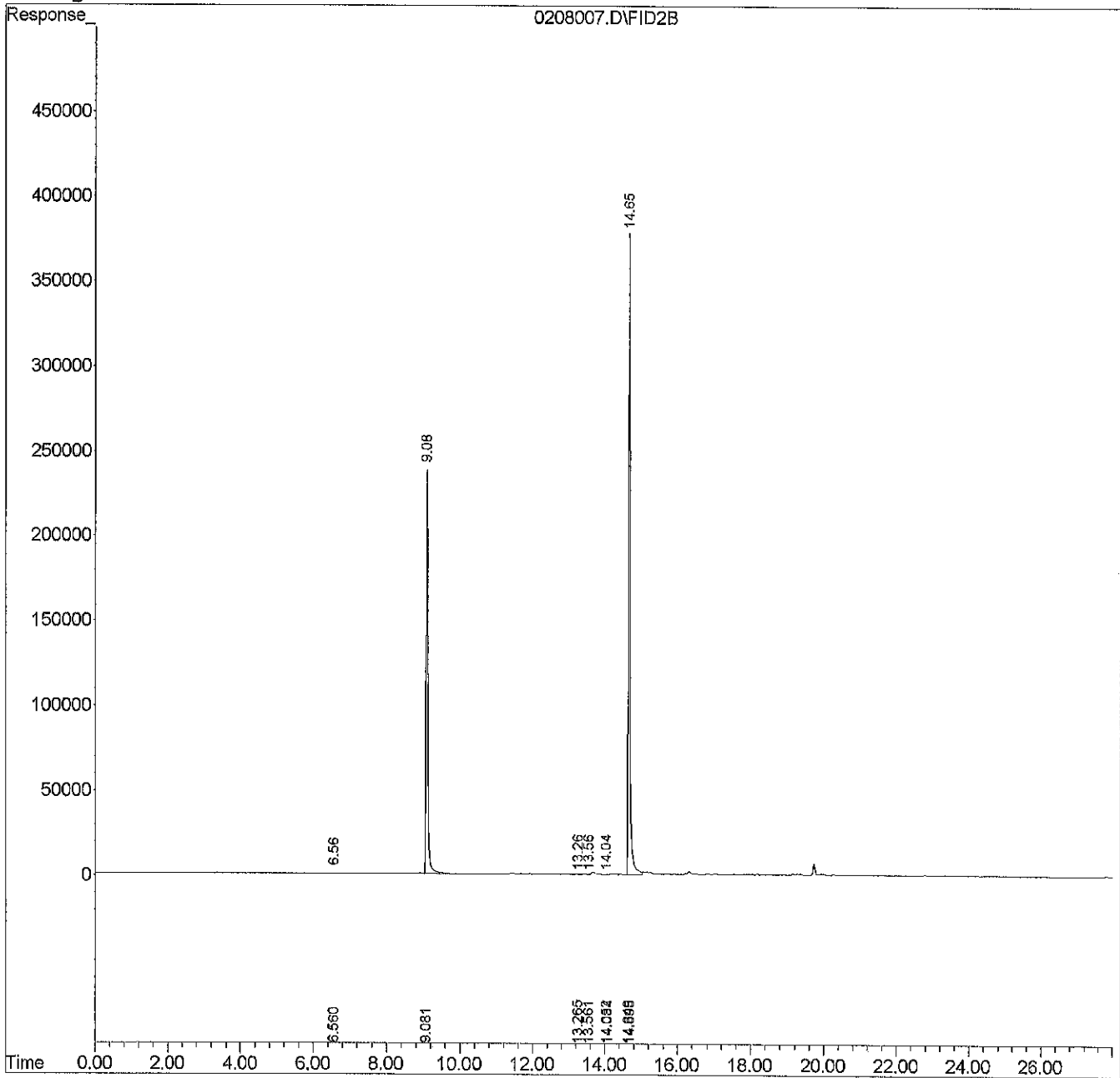
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 14:00 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208008.D Vial: 8
 Acq On : 8 Feb 2022 14:16 Operator:
 Sample : 02-068-04k Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 14:37 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.09	7751091	35.999 PPB
11) S BROMOFLUOROBENZENE #2	14.65	11622337	41.427 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	3732624	0.006 PPM
3) H GASOLINE #2	14.70	2731562	0.007 PPM
4) MTBE #2 (1-21-22)	6.58	7445	0.101 PPB
5) BENZENE #2	8.73	5337	N.D. PPB
7) TOLUENE #2	11.22	2802	N.D. PPB
8) ETHYLBENZENE #2	13.27	3892	0.149 PPB
9) m,p-XYLENE #2	13.56	12414	0.050 PPB
10) o-XYLENE #2	14.05	2731	0.034 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208008.D
Acq On : 8 Feb 2022 14:16
Sample : 02-068-04k
Misc :

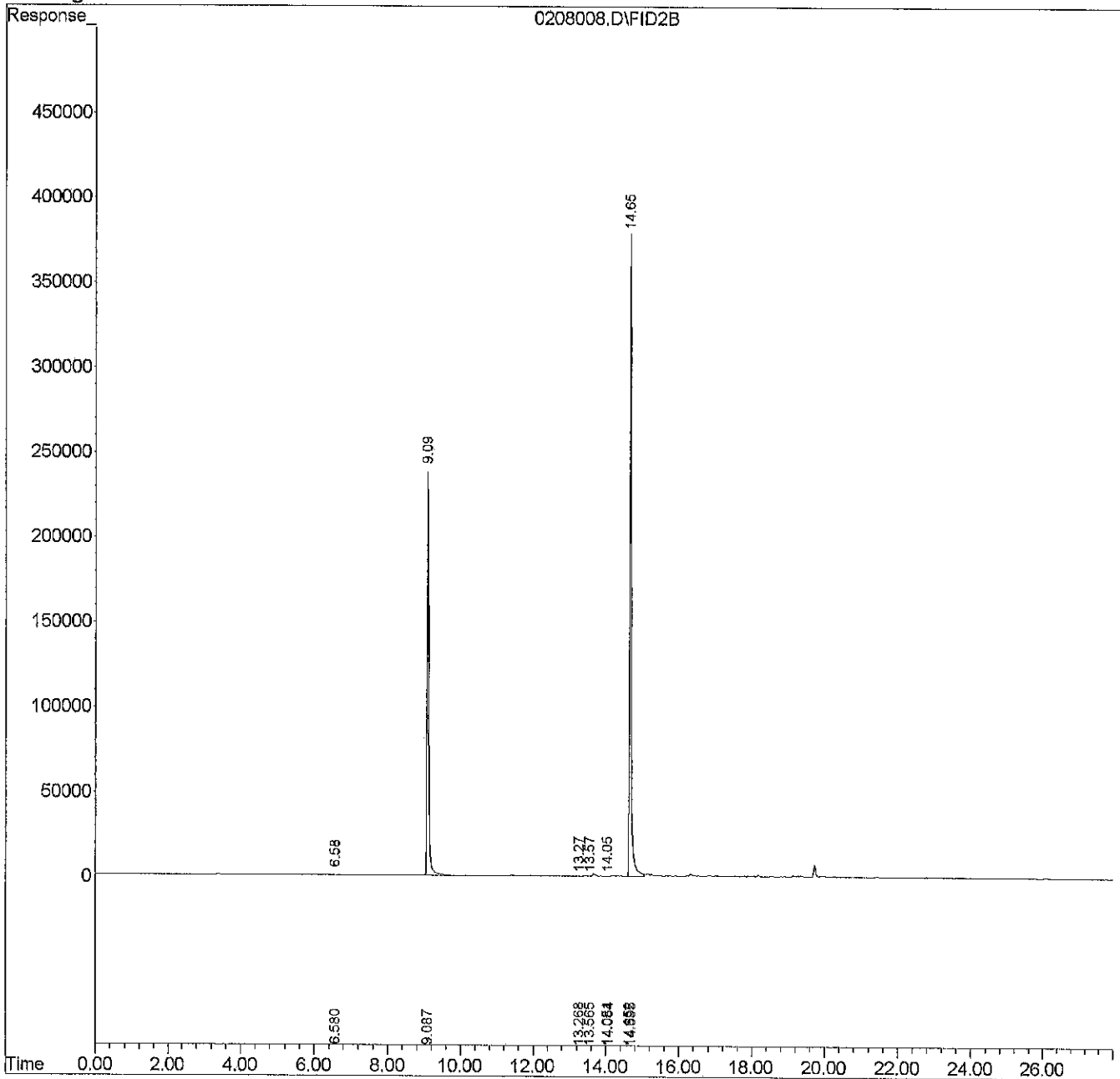
Vial: 8
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 14:37 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220208\0208009.D           Vial: 9
Acq On    : 8 Feb 2022 14:46                             Operator:
Sample    : 02-068-05k                                   Inst  : Hope
Misc      :                                               Multiplr: 1.00
                                                Sample Amount: 0.00

IntFile   : EVENTS1.E
    
```

Quant Time: Feb 8 15:14 2022 Quant Results File: 211025G.RES

```

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Tue Feb 01 09:42:14 2022
Response via : Initial Calibration
DataAcq Meth : 211025G.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7734904	35.924 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11670108	41.598 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	4714063	0.013 PPM
3) H GASOLINE #2	14.70	3197913	0.011 PPM
4) MTBE #2 (1-21-22)	6.54	13529	0.183 PPB
5) BENZENE #2	8.73	2083	N.D. PPB
7) TOLUENE #2	0.00	0	N.D. PPB
8) ETHYLBENZENE #2	13.25	4031	0.150 PPB
9) m,p-XYLENE #2	0.00	0	N.D. PPB
10) o-XYLENE #2	14.04	12718	0.071 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208009.D
Acq On : 8 Feb 2022 14:46
Sample : 02-068-05k
Misc :

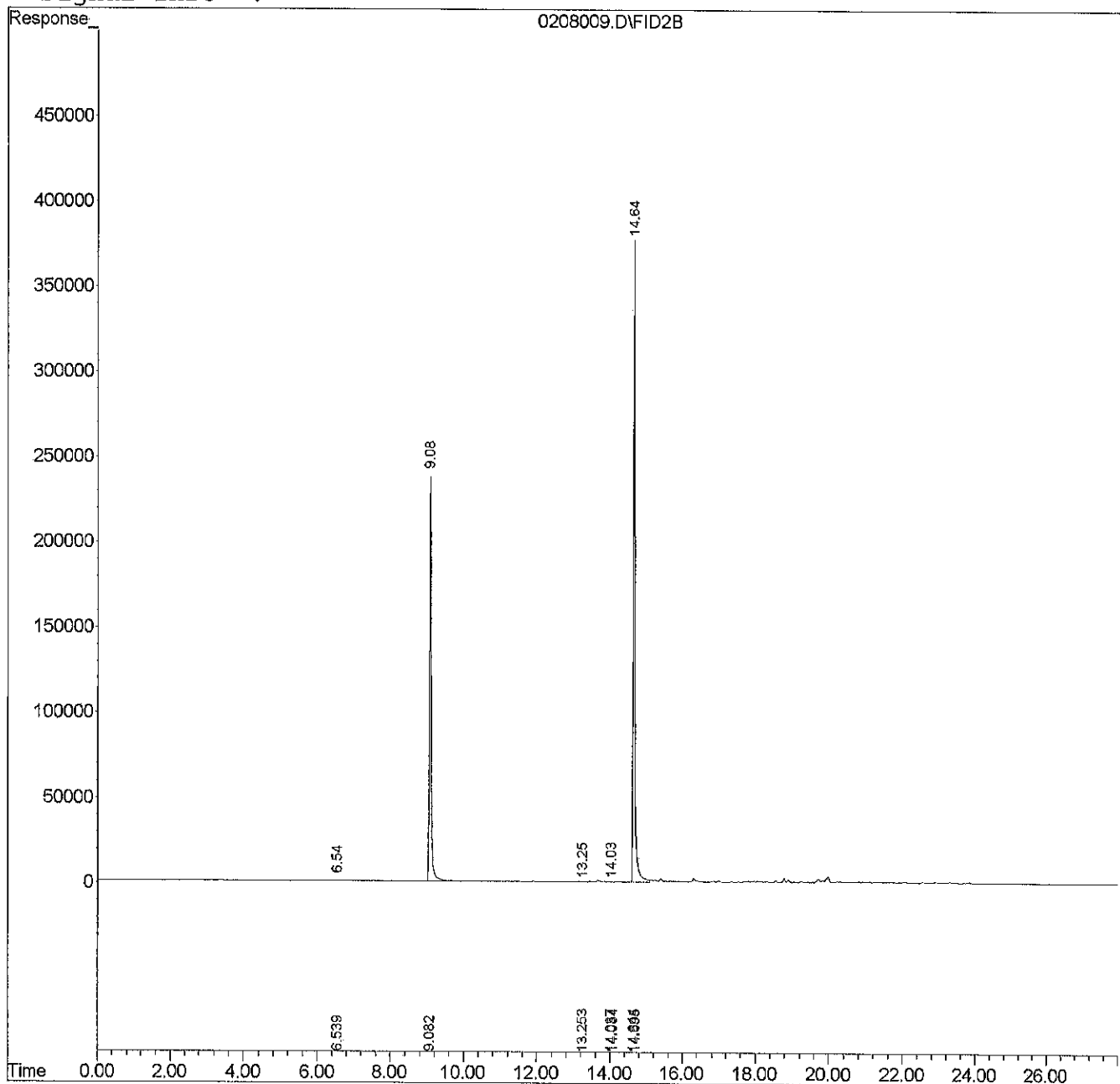
Vial: 9
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 15:14 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208010.D Vial: 10
 Acq On : 8 Feb 2022 15:32 Operator:
 Sample : 02-068-06k Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 9 13:40 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7767268	36.075 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11184989	39.861 PPB m _{BCU} z-11
Target Compounds			
2) H Entire GAS Envelope #2	14.08	17158863	0.098 PPM
3) H GASOLINE #2	14.70	14254160	0.100 PPM u/r l _{avg}
4) MTBE #2 (1-21-22)	6.57	7395	0.100 PPB N.D.
5) BENZENE #2	8.72	17421	0.015 PPB
7) TOLUENE #2	11.21	3013	N.D. PPB
8) ETHYLBENZENE #2	13.25	1963	0.142 PPB
9) m,p-XYLENE #2	13.46	25622	0.092 PPB
10) o-XYLENE #2	14.04	8226	0.054 PPB

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208010.D
Acq On : 8 Feb 2022 15:32
Sample : 02-068-06k
Misc :

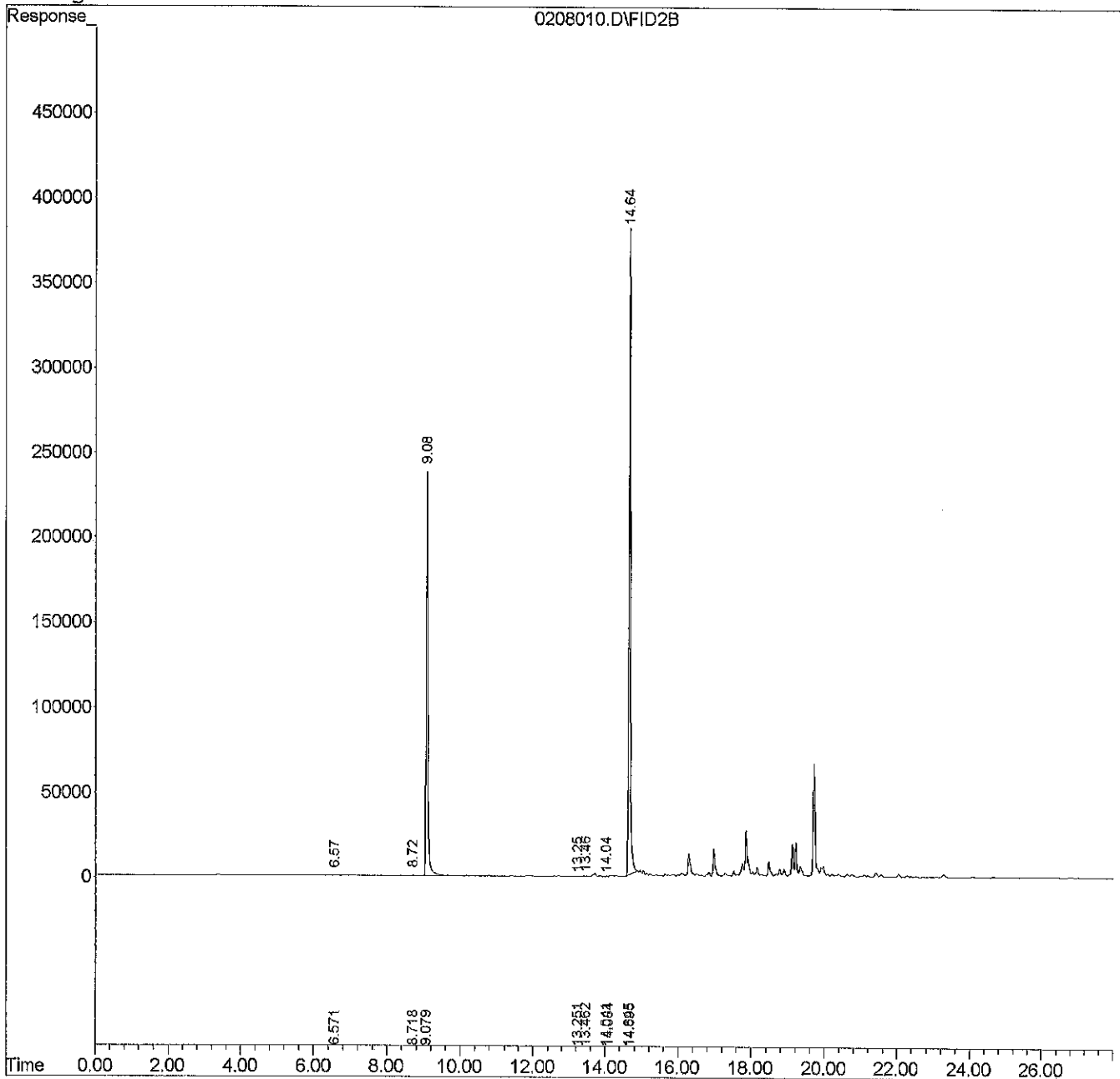
Vial: 10
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 9 13:40 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220208\0208003.D           Vial: 3
Acq On    : 8 Feb 2022 11:15                             Operator:
Sample    : MB0208W1                                     Inst  : Hope
Misc      :                                             Multiplr: 1.00
                                                Sample Amount: 0.00

IntFile   : EVENTS1.E
    
```

Quant Time: Feb 8 11:29 2022 Quant Results File: 211025G.RES

```

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Tue Feb 01 09:42:14 2022
Response via : Initial Calibration
DataAcq Meth : 211025G.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	7809431	36.271 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11680143	41.634 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	4514615	0.011 PPM
3) H GASOLINE #2	14.70	2932855	0.009 PPM
4) MTBE #2 (1-21-22)	0.00	0	N.D. PPB
5) BENZENE #2	8.72	6033	N.D. PPB
7) TOLUENE #2	11.35	179681	0.588 PPB
8) ETHYLBENZENE #2	13.25	5645	0.155 PPB
9) m,p-XYLENE #2	13.62	340787	1.077 PPB
10) o-XYLENE #2	14.13	174768	0.670 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208003.D
Acq On : 8 Feb 2022 11:15
Sample : MB0208W1
Misc :

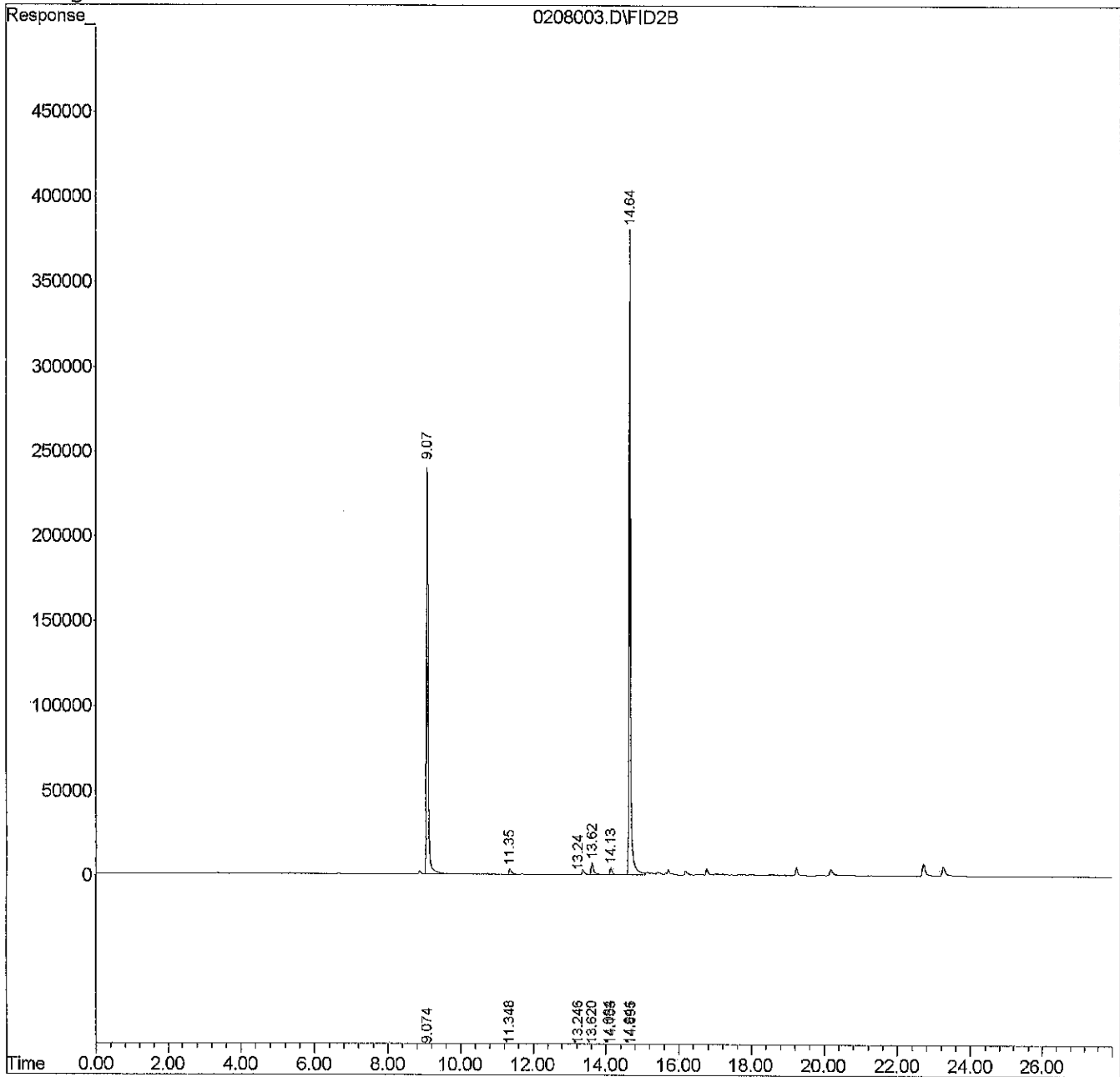
Vial: 3
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 11:29 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208004.D Vial: 4
 Acq On : 8 Feb 2022 11:45 Operator:
 Sample : 02-068-01k Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 12:11 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7796986	36.213 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11646039	41.512 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	2475139	N.D. PPM
3) H GASOLINE #2	14.70	1819524	N.D. PPM
4) MTBE #2 (1-21-22)	6.55	14438	0.195 PPB
5) BENZENE #2	8.73	4153	N.D. PPB
7) TOLUENE #2	0.00	0	N.D. PPB
8) ETHYLBENZENE #2	13.25	4199	0.150 PPB
9) m,p-XYLENE #2	13.63	191944	0.612 PPB
10) o-XYLENE #2	14.15	74825	0.300 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208004.D
Acq On : 8 Feb 2022 11:45
Sample : 02-068-01k
Misc :

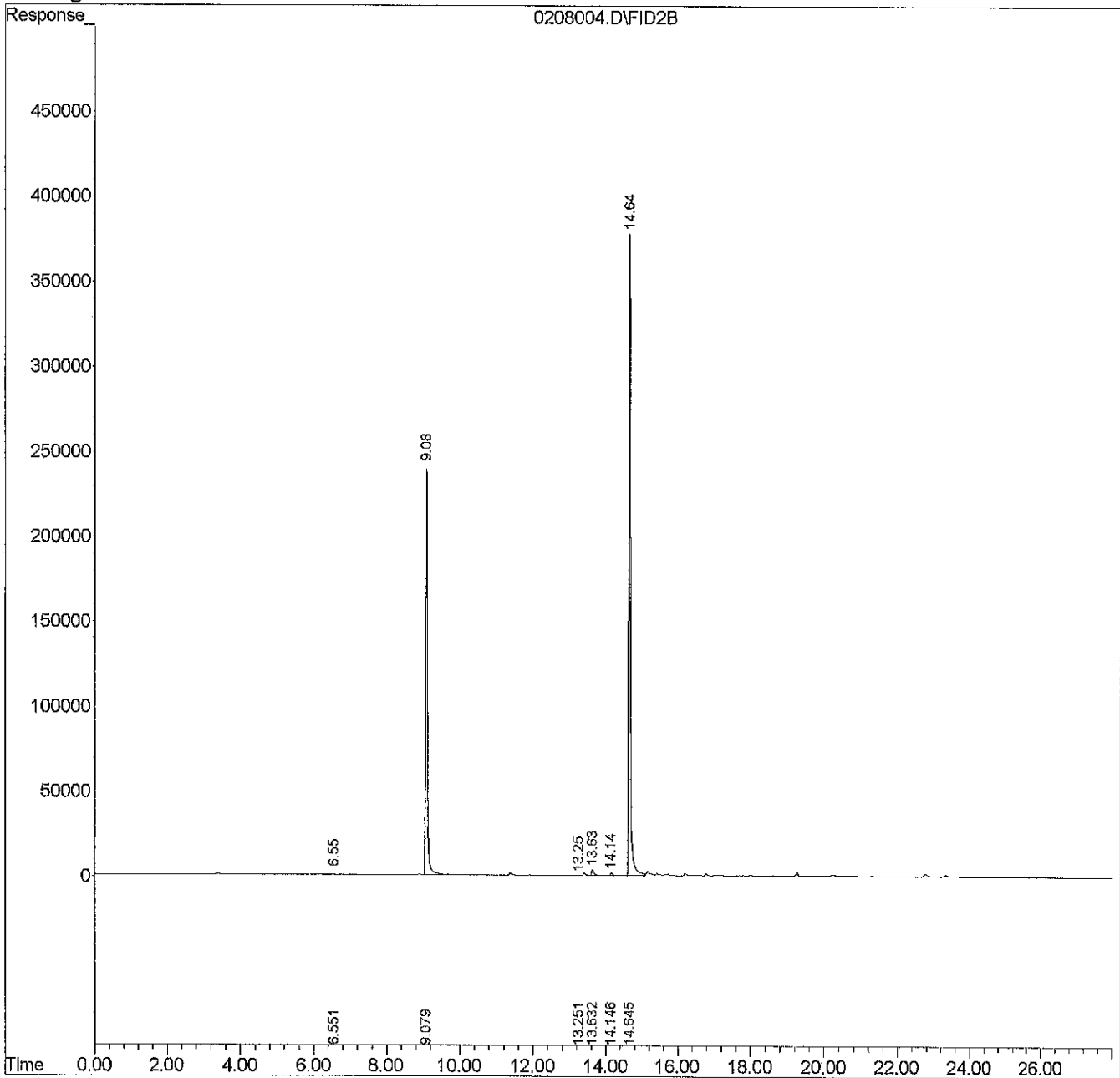
Vial: 4
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 12:11 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208005.D Vial: 5
 Acq On : 8 Feb 2022 12:30 Operator:
 Sample : 02-068-01k DUP Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 12:47 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7771081	36.092 PPB
11) S BROMOFLUOROBENZENE #2	14.65	11629444	41.453 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	2306191	N.D. PPM
3) H GASOLINE #2	14.70	1540459	N.D. PPM
4) MTBE #2 (1-21-22)	6.52	16474	0.222 PPB
5) BENZENE #2	8.74	2995	N.D. PPB
7) TOLUENE #2	11.17	9145	0.011 PPB
8) ETHYLBENZENE #2	13.26	3324	0.147 PPB
9) m,p-XYLENE #2	13.64	128402	0.413 PPB
10) o-XYLENE #2	14.16	48391	0.203 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208005.D
Acq On : 8 Feb 2022 12:30
Sample : 02-068-01k DUP
Misc :

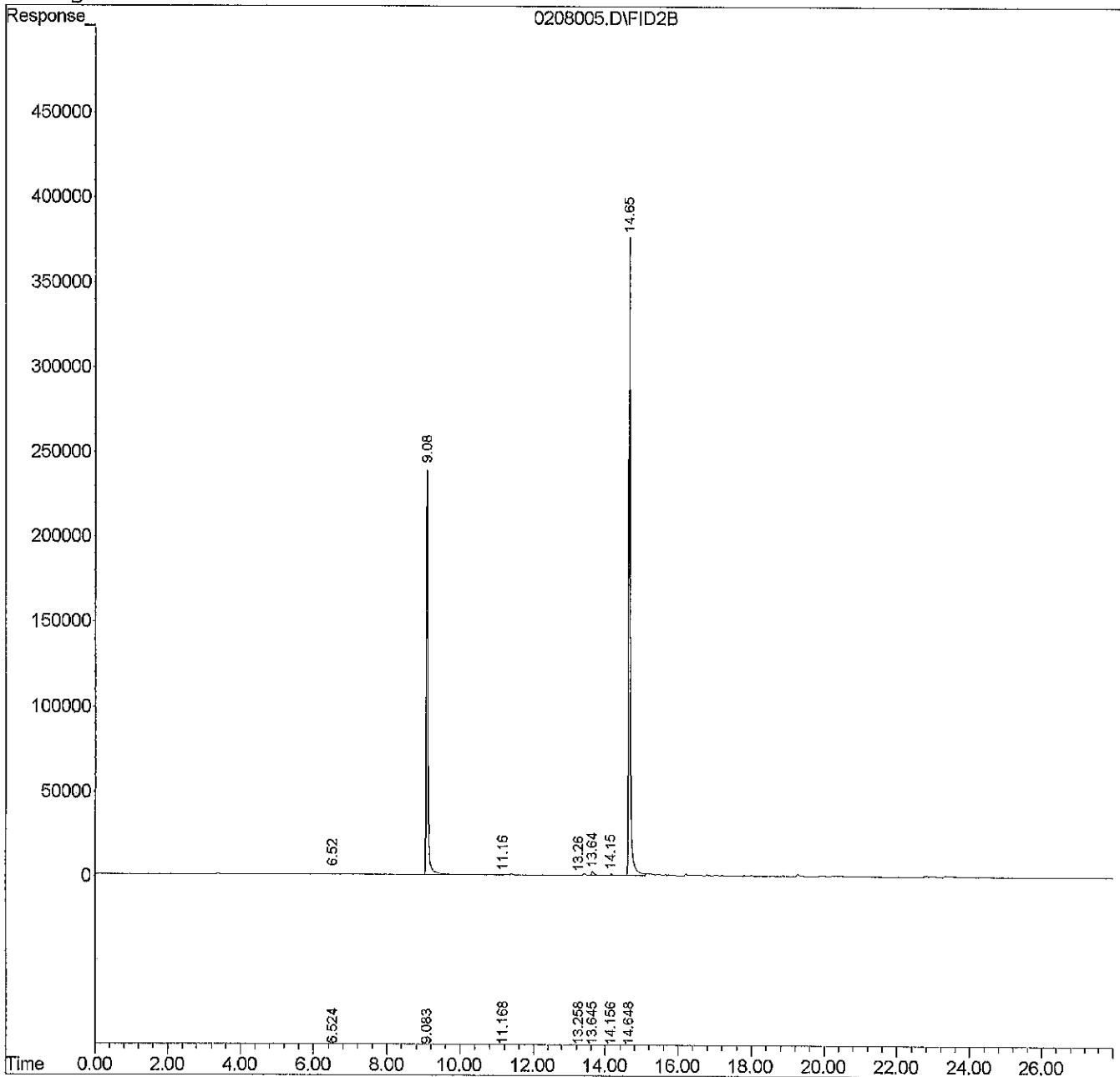
Vial: 5
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 12:47 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208001.D Vial: 1
 Acq On : 8 Feb 2022 9:59 Operator:
 Sample : CCVH0208G-1 Inst : Hope
 Misc : V2-064-09 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 10:17 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	8045567	37.368 PPB
11) S BROMOFLUOROBENZENE #2	14.64	13545469	48.315 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	363067866	2.482 PPM
3) H GASOLINE #2	14.70	314750679	2.510 PPM
4) MTBE #2 (1-21-22)	6.55	1459459	19.707 PPB
5) BENZENE #2	8.83	6313233	20.577 PPB
7) TOLUENE #2	11.29	64664083	218.642 PPB
8) ETHYLBENZENE #2	13.32	16680342	61.573 PPB
9) m,p-XYLENE #2	13.57	69472914	217.189 PPB
10) o-XYLENE #2	14.10	27327122	101.075 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208001.D
Acq On : 8 Feb 2022 9:59
Sample : CCVH0208G-1
Misc : V2-064-09

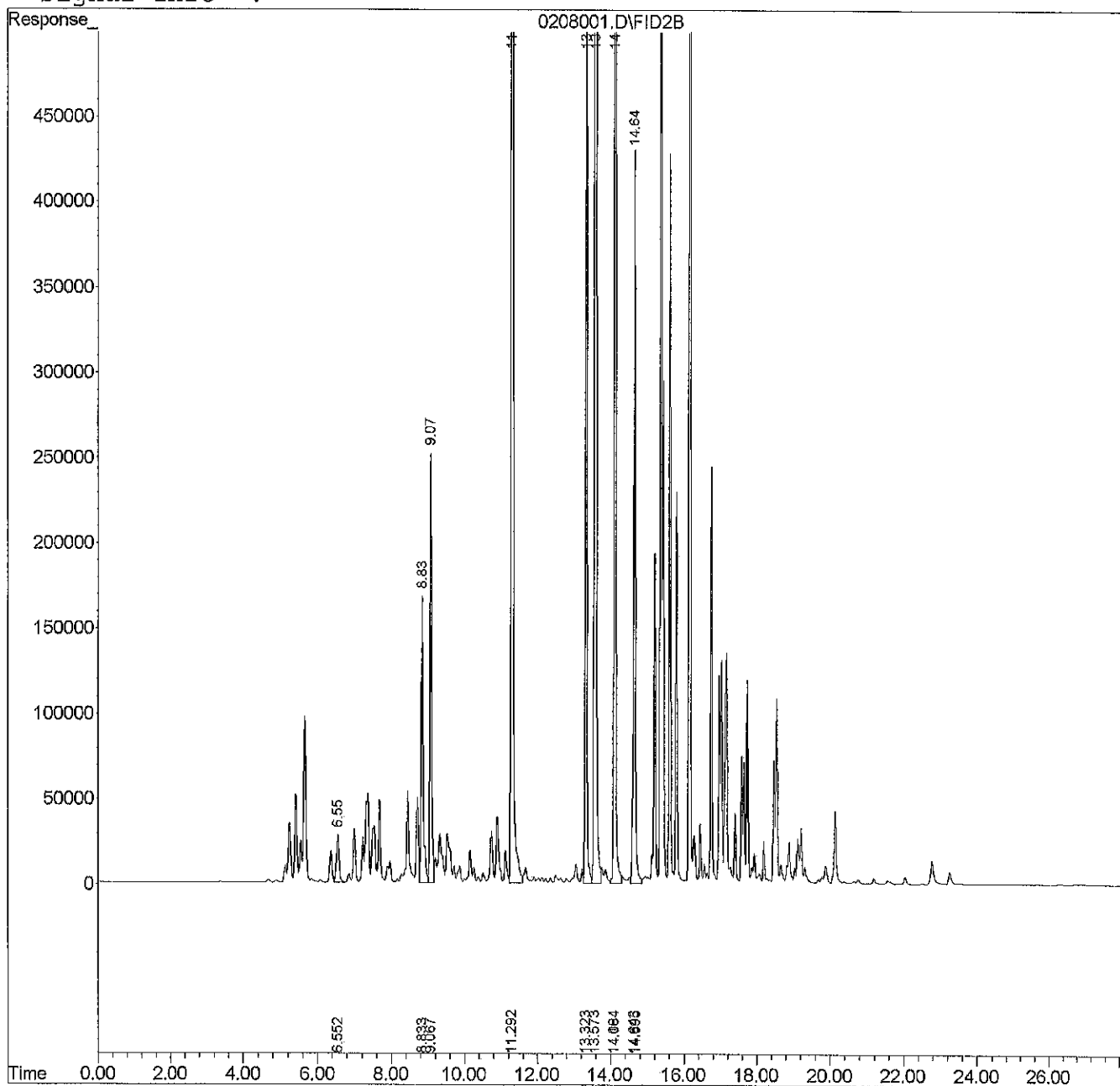
Vial: 1
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 10:17 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208023.D Vial: 23
 Acq On : 9 Feb 2022 13:25 Operator:
 Sample : CCVH0208G-2 Inst : Hope
 Misc : V2-064-09 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 9 13:51 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.09	7902356	36.703 PPB
11) S BROMOFLUOROBENZENE #2	14.65	13294019	47.414 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	343932898	2.350 PPM
3) H GASOLINE #2	14.70	300102395	2.393 PPM
4) MTBE #2 (1-21-22)	6.57	1341086	18.109 PPB
5) BENZENE #2	8.85	5960736	19.426 PPB
7) TOLUENE #2	11.31	63585876	214.996 PPB
8) ETHYLBENZENE #2	13.33	16052054	59.259 PPB
9) m,p-XYLENE #2	13.58	67927411	212.358 PPB
10) o-XYLENE #2	14.11	26652150	98.579 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208023.D
Acq On : 9 Feb 2022 13:25
Sample : CCVH0208G-2
Misc : V2-064-09

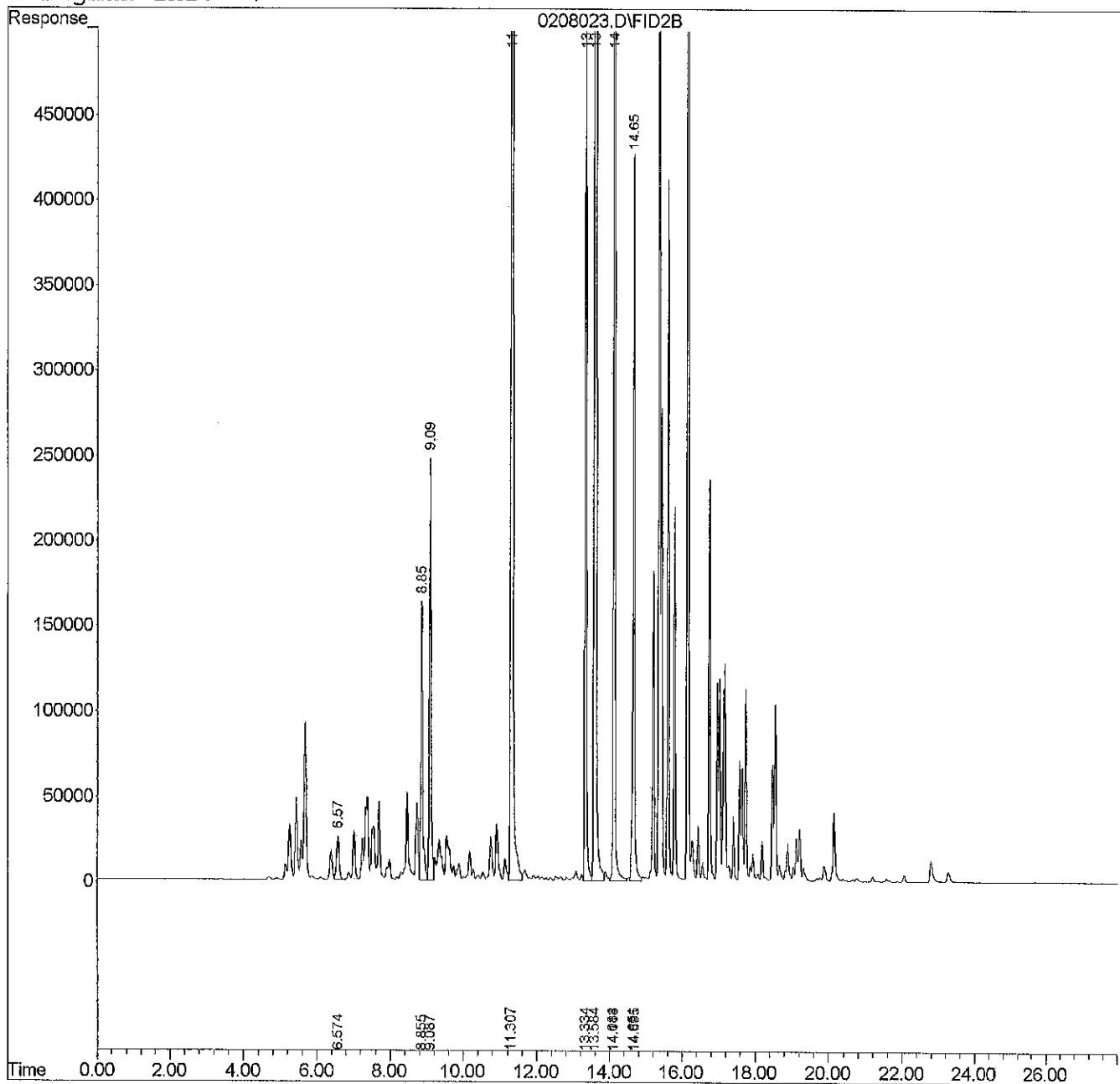
Vial: 23
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 9 13:51 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Diesel and Heavy Oil Range Organics
NWTPH-Dx Data

Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V17.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 19:01
 Operator : JP
 Sample : 02-068-01
 Misc : Sample
 ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 19:37:28 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.680	128519634	44.081 PPM
Spiked Amount	50.000	Recovery =	88.16%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	2793297	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	10175129	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	14060656	7.826 PPM
6) H Oil (02-09-22)	22.000	35160117	13.477 PPM
7) H Oil Acid Clean (05-2...	22.000	35160117	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	11700389	6.790 PPM
9) H Oil Combo (02-09-22)	22.000	32060665	11.677 PPM
10) H Oil Acid Clean Combo ...	22.000	32060665	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	13831647	7.751 PPM
12) H HAWAII 8015M Oil (02...	22.000	29628082	10.566 PPM
13) H Mineral Oil (02-09-22)	16.000	16209741	8.585 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	14060656	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	11700389	NoCal PPM
16) H Hydraulic Oil	16.000	33346123	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	11035626	6.439 PPM
18) H Oil Acid Clean MO Com...	22.000	30067369	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	30067369	10.655 PPM

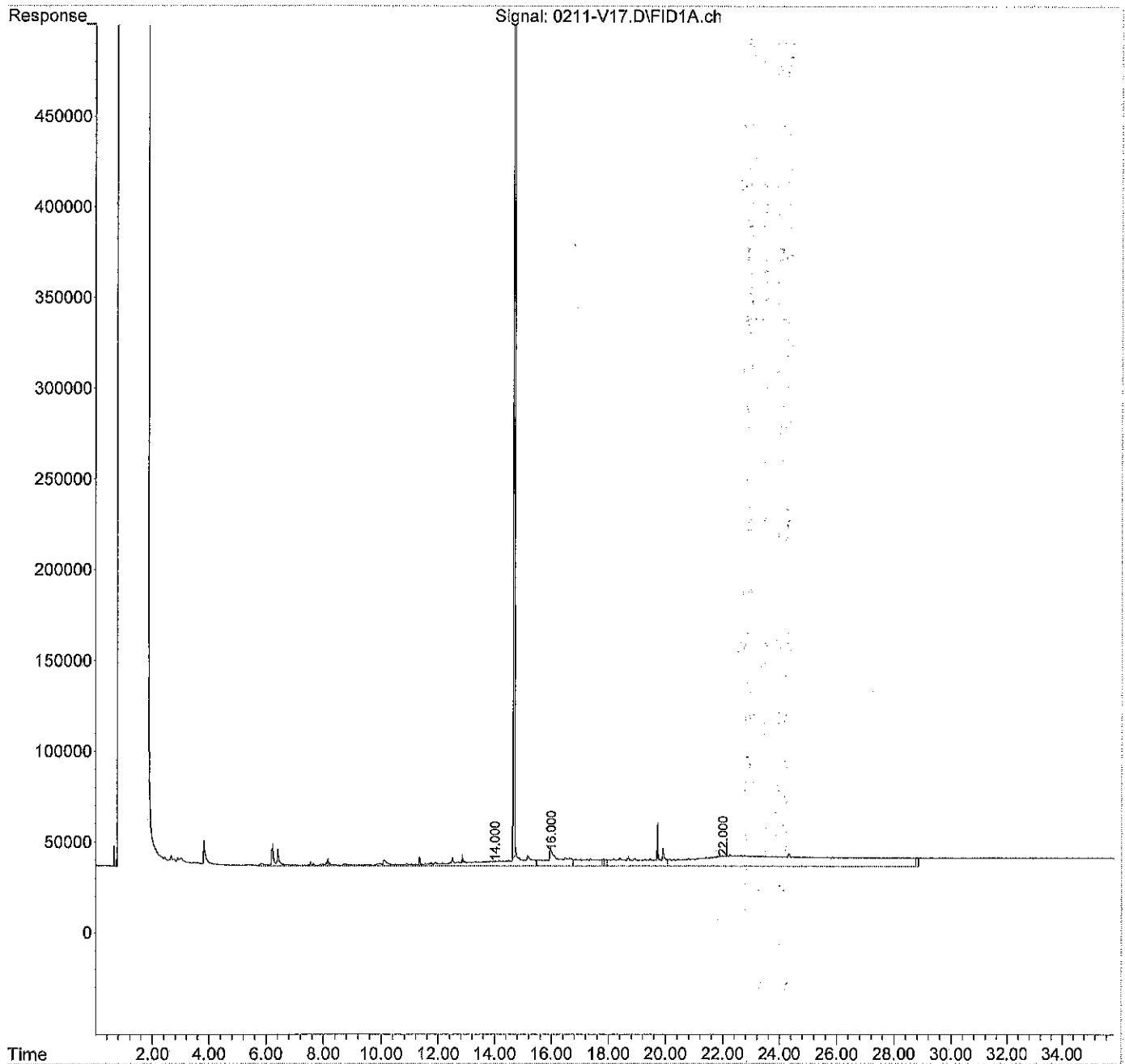
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V17.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 19:01
Operator : JP
Sample : 02-068-01
Misc : Sample
ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 19:37:28 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V64.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 17:01
 Operator : JP
 Sample : 02-068-01 ACU
 Misc : RearSamp
 ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 17:38:16 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.621	144518718	58.146 PPM
Spiked Amount	50.000	Recovery =	116.29%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	15652260	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	19045834	0.703 PPM
5) H Diesel Fuel #2 (05-1...	14.000	21921629	5.969 PPM
6) H Oil (05-19-21)	22.000	38643136	9.272 PPM
7) H Oil Acid Clean (05-21...	22.000	38643136	10.403 PPM
8) H Diesel Fuel #2 Combo ...	14.000	18126321	4.657 PPM
9) H Oil Combo (05-19-21)	22.000	34246267	6.997 PPM
10) H Oil Acid Clean Combo ...	22.000	34246267	8.403 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	21466484	5.898 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30457922	5.211 PPM
13) H Mineral Oil (05-19-21)	16.000	22090199	8.102 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	21921629	5.349 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	18126321	4.373 PPM
16) H Hydraulic Oil (03-19...	14.000	27432009	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	15869556	6.943 PPM
18) H Oil Acid Clean MO Com...	22.000	29749068	6.491 PPM
19) H Oil MO Combo (05-19-21)	22.000	29749068	4.735 PPM
20) H JP-4 (03-24-21)	8.000	29237635	NoCal PPM
21) H JP-5 (03-25-21)	8.000	13877723	NoCal PPM
22) H JP-8 (03-26-21)	8.000	15560220	NoCal PPM

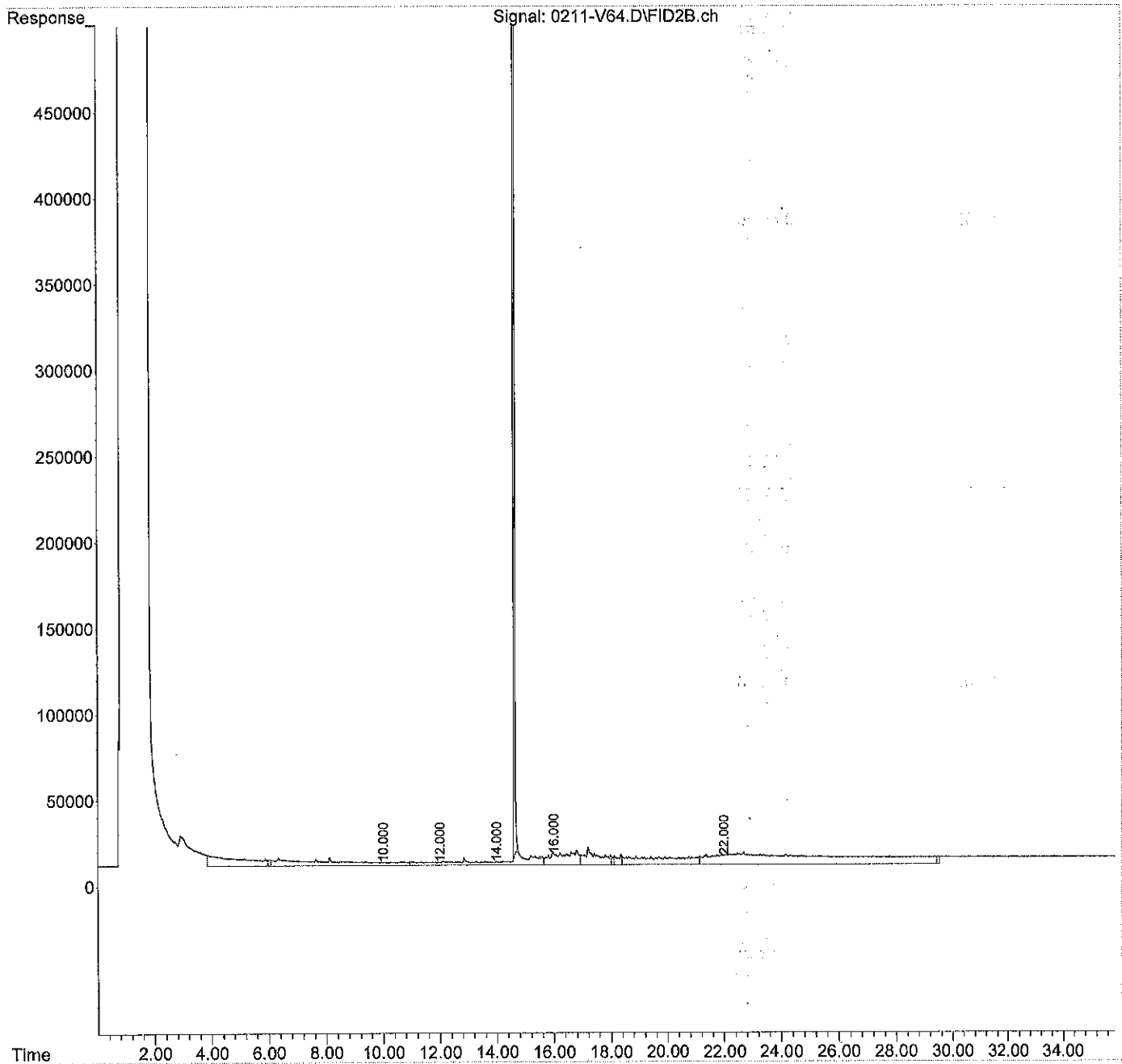
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V64.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 17:01
Operator : JP
Sample : 02-068-01 ACU
Misc : RearSamp
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 17:38:16 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V18.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 19:41
 Operator : JP
 Sample : 02-068-02
 Misc : Sample
 ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 20:17:16 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.678	114520481	39.295 PPM
Spiked Amount	50.000	Recovery =	78.59%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	7310728	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	71830087	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	105481917	46.850 PPM
6) H Oil (02-09-22)	22.000	108913178	56.255 PPM
7) H Oil Acid Clean (05-2...	22.000	108913178	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	87390310	40.019 PPM
9) H Oil Combo (02-09-22)	22.000	88349584	44.821 PPM
10) H Oil Acid Clean Combo ...	22.000	88349584	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	104034838	46.651 PPM
12) H HAWAII 8015M Oil (02...	22.000	71276757	35.977 PPM
13) H Mineral Oil (02-09-22)	16.000	119163968	50.070 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	105481917	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	87390310	NoCal PPM
16) H Hydraulic Oil	16.000	154055276	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	90023685	39.470 PPM
18) H Oil Acid Clean MO Com...	22.000	72660689	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	72660689	36.438 PPM

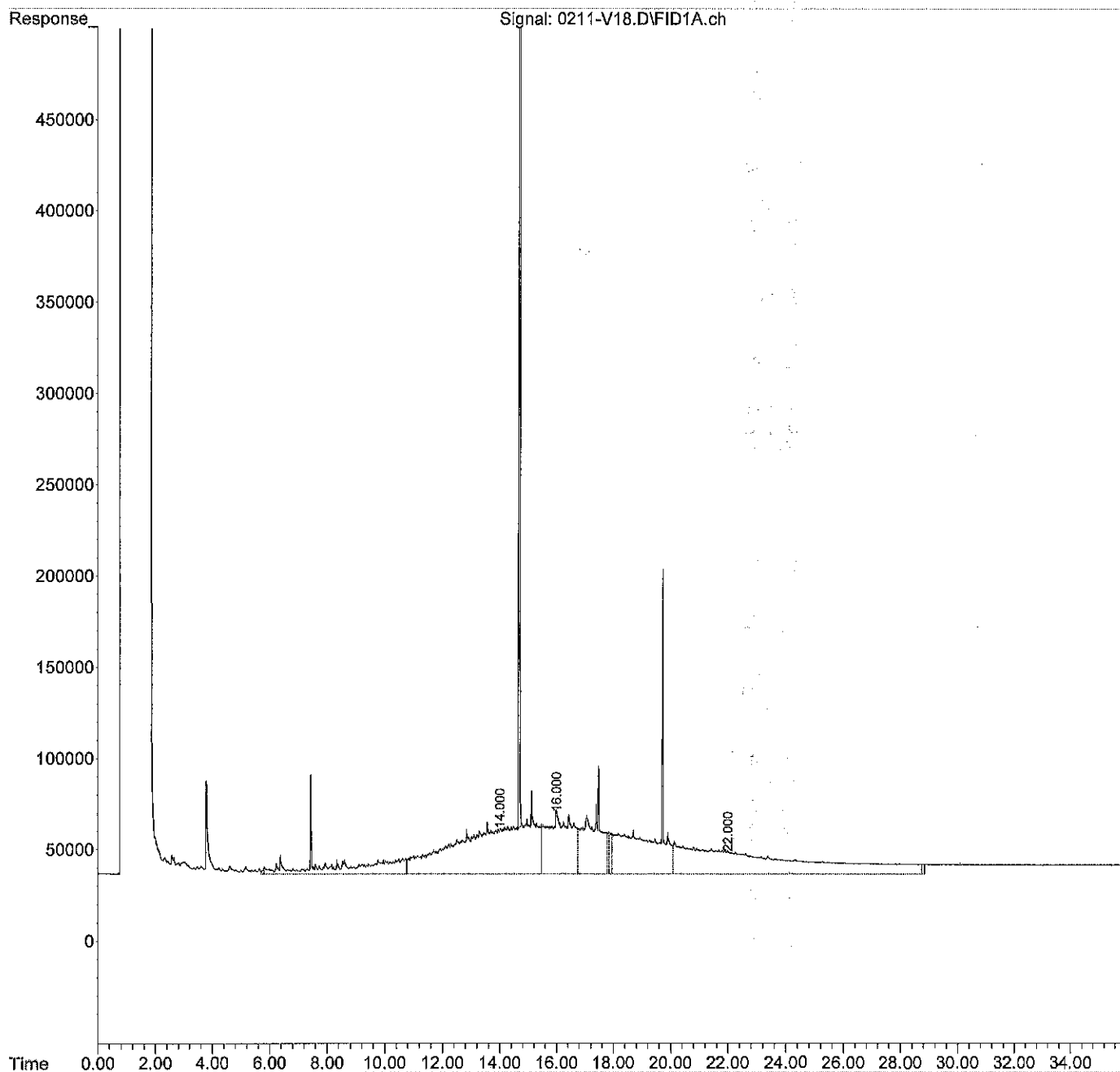
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V18.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 19:41
Operator : JP
Sample : 02-068-02
Misc : Sample
ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 20:17:16 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V65.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 17:41
 Operator : JP
 Sample : 02-068-02 ACU
 Misc : RearSamp
 ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 18:18:13 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.617	116020279	46.741 PPM
Spiked Amount 50.000		Recovery =	93.48%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17278295	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	22382955	1.517 PPM
5) H Diesel Fuel #2 (05-1...	14.000	28351637	9.022 PPM
6) H Oil (05-19-21)	22.000	45181528	13.437 PPM
7) H Oil Acid Clean (05-21...	22.000	45181528	14.293 PPM
8) H Diesel Fuel #2 Combo ...	14.000	22889194	6.982 PPM
9) H Oil Combo (05-19-21)	22.000	38676083	9.862 PPM
10) H Oil Acid Clean Combo ...	22.000	38676083	11.078 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	27796493	8.927 PPM
12) H HAWAII 8015M Oil (05-...	22.000	33306902	7.117 PPM
13) H Mineral Oil (05-19-21)	16.000	30096782	11.606 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	28351637	8.002 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	22889194	6.396 PPM
16) H Hydraulic Oil (03-19...	14.000	35923897	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	20974564	9.233 PPM
18) H Oil Acid Clean MO Com...	22.000	32282717	8.090 PPM
19) H Oil MO Combo (05-19-21)	22.000	32282717	6.448 PPM
20) H JP-4 (03-24-21)	8.000	33043817	NoCal PPM
21) H JP-5 (03-25-21)	8.000	16330093	NoCal PPM
22) H JP-8 (03-26-21)	8.000	18116306	NoCal PPM

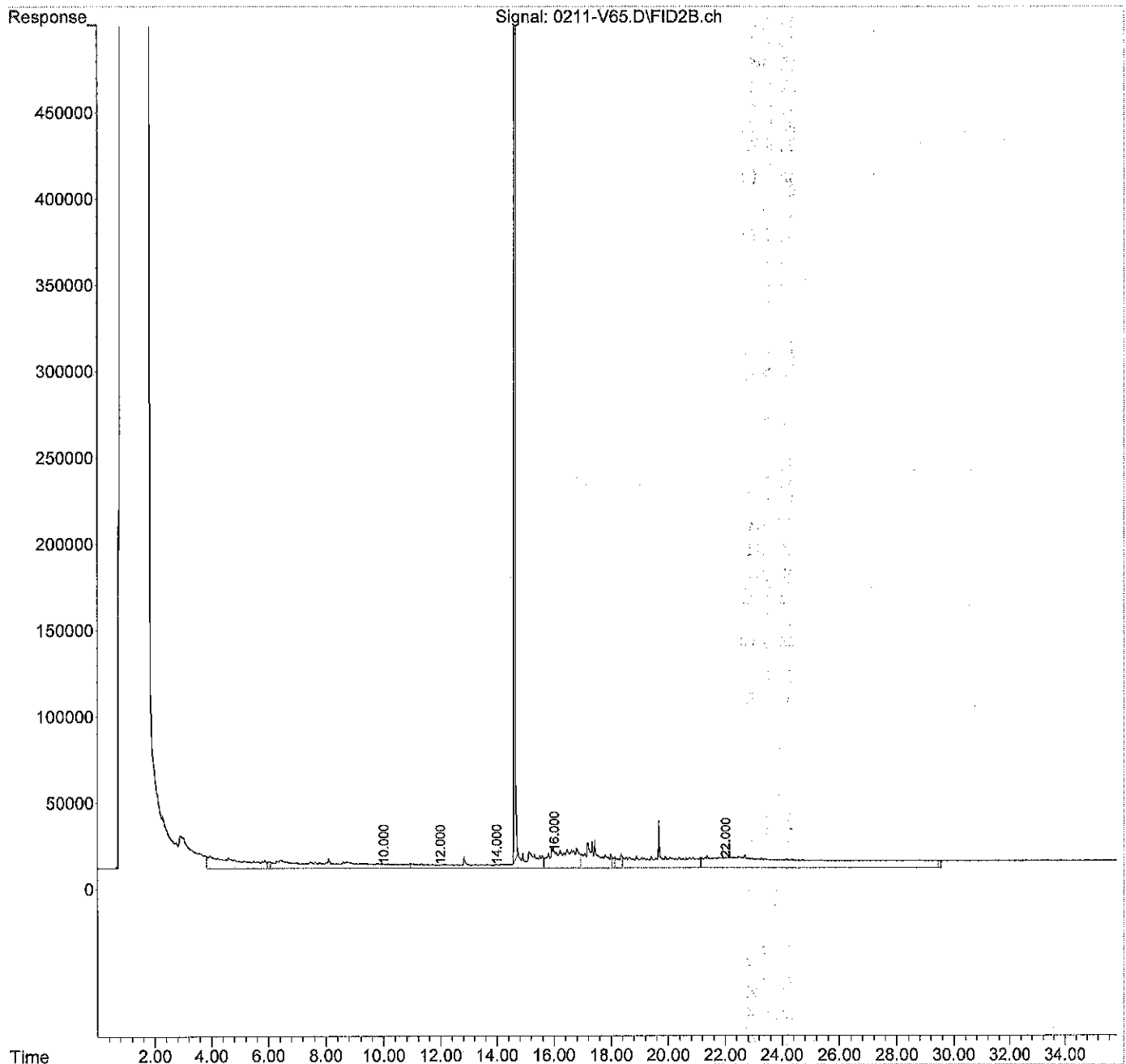
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V65.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 17:41
Operator : JP
Sample : 02-068-02 ACU
Misc : RearSamp
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 18:18:13 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V15.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 17:41
 Operator : JP
 Sample : 02-068-03
 Misc : Sample
 ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 18:17:36 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.678	118929215	40.802 PPM
Spiked Amount 50.000		Recovery =	81.60%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6561322	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	112555162	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	150872020	66.226 PPM
6) H Oil (02-09-22)	22.000	122588881	64.187 PPM
7) H Oil Acid Clean (05-2...	22.000	122588881	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	132535673	59.839 PPM
9) H Oil Combo (02-09-22)	22.000	97773961	50.370 PPM
10) H Oil Acid Clean Combo ...	22.000	97773961	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	149298487	66.171 PPM
12) H HAWAII 8015M Oil (02...	22.000	80540782	41.629 PPM
13) H Mineral Oil (02-09-22)	16.000	167377014	69.497 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	150872020	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	132535673	NoCal PPM
16) H Hydraulic Oil	16.000	204101551	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	130786019	56.516 PPM
18) H Oil Acid Clean MO Com...	22.000	82026491	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	82026491	42.108 PPM

(f)=RT Delta > 1/2 Window

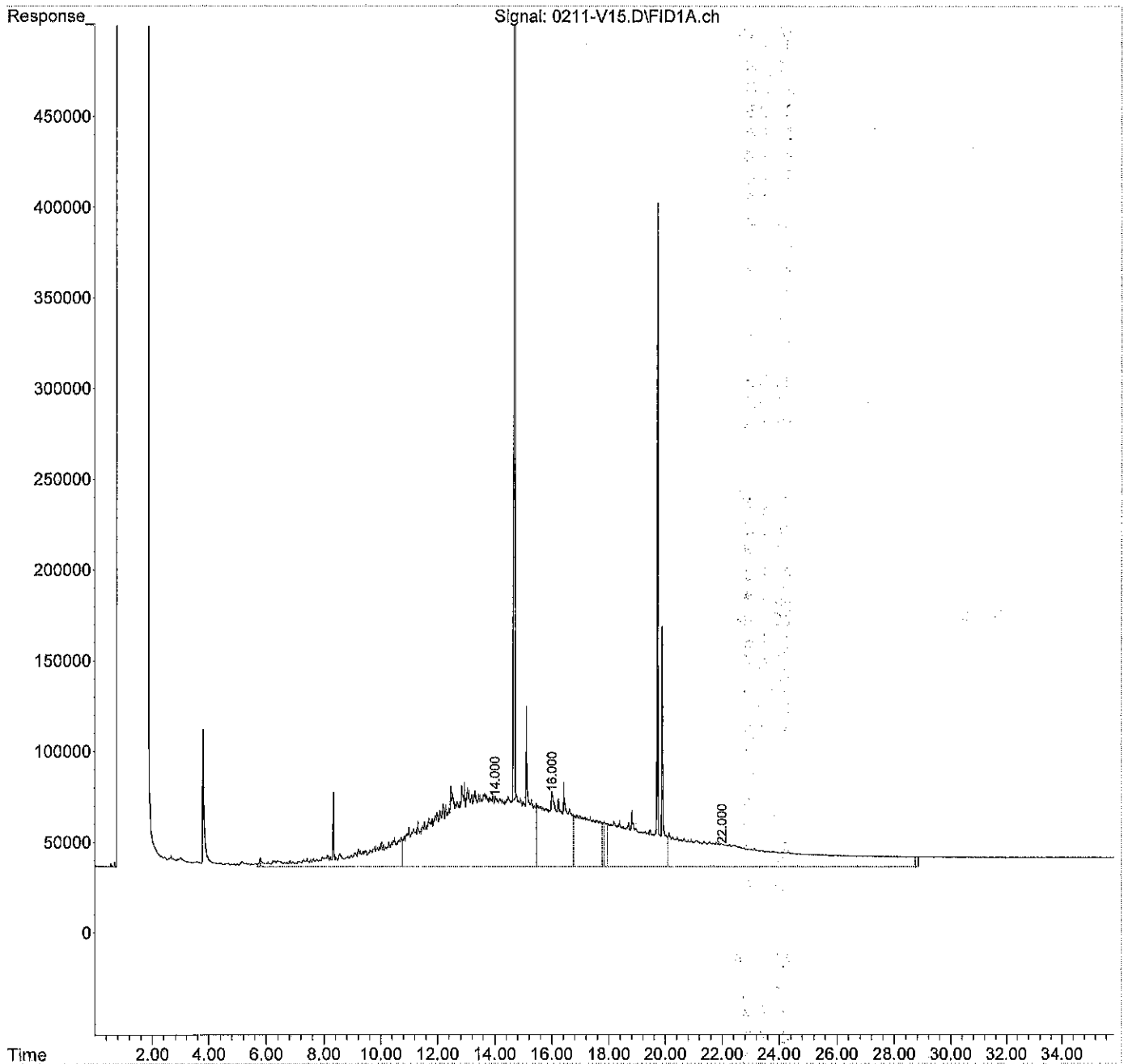
(m)=manual int.

NoCal
 NoCal
 66.2
 64.1
 NoCal
 59.8
 64.1
 NoCal
 66.1
 41.6
 69.4
 NoCal
 56.5
 NoCal
 42.1

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V15.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 17:41
Operator : JP
Sample : 02-068-03
Misc : Sample
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 18:17:36 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V66.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 18:21
 Operator : JP
 Sample : 02-068-03 ACU
 Misc : RearSamp
 ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 18:58:04 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.618	128388418	51.691 PPM
Spiked Amount 50.000		Recovery =	103.38%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	16029363	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	19951709	0.924 PPM
5) H Diesel Fuel #2 (05-1...	14.000	21705180	5.866 PPM
6) H Oil (05-19-21)	22.000	34851533	6.856 PPM
7) H Oil Acid Clean (05-21...	22.000	34851533	8.147 PPM
8) H Diesel Fuel #2 Combo ...	14.000	18408958	4.795 PPM
9) H Oil Combo (05-19-21)	22.000	30799468	4.768 PPM
10) H Oil Acid Clean Combo ...	22.000	30799468	6.322 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	21282418	5.810 PPM
12) H HAWAII 8015M Oil (05-...	22.000	27482482	3.220 PPM
13) H Mineral Oil (05-19-21)	16.000	20954743	7.605 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	21705180	5.260 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	18408958	4.493 PPM
16) H Hydraulic Oil (03-19...	14.000	25295195	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	14946363	6.529 PPM
18) H Oil Acid Clean MO Com...	22.000	26896963	4.691 PPM
19) H Oil MO Combo (05-19-21)	22.000	26896963	2.807 PPM
20) H JP-4 (03-24-21)	8.000	30536688	NoCal PPM
21) H JP-5 (03-25-21)	8.000	14915663	NoCal PPM
22) H JP-8 (03-26-21)	8.000	16626244	NoCal PPM

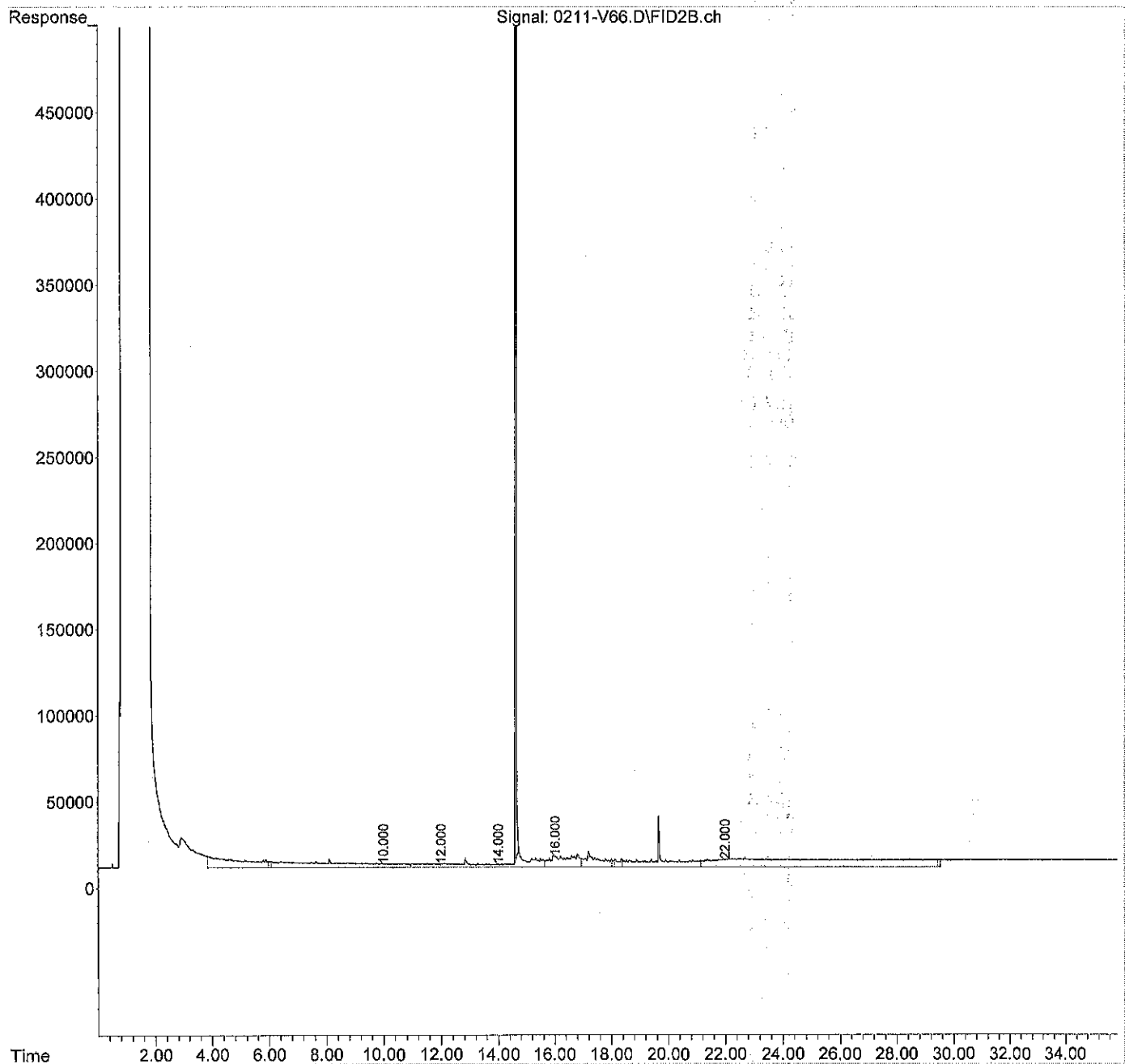
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V66.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 18:21
Operator : JP
Sample : 02-068-03 ACU
Misc : RearSamp
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 18:58:04 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V16.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 18:21
 Operator : JP
 Sample : 02-068-04
 Misc : Sample
 ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 18:57:27 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.680	127734818	43.813 PPM
Spiked Amount	50.000	Recovery =	87.63%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6530433	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	142251867	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	192136282	83.840 PPM
6) H Oil (02-09-22)	22.000	143372145	76.242 PPM
7) H Oil Acid Clean (05-2...	22.000	143372145	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	168867519	75.790 PPM
9) H Oil Combo (02-09-22)	22.000	112104654	58.809 PPM
10) H Oil Acid Clean Combo ...	22.000	112104654	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	190146598	83.787 PPM
12) H HAWAII 8015M Oil (02...	22.000	90296147	47.581 PPM
13) H Mineral Oil (02-09-22)	16.000	206374936	85.211 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	192136282	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	168867519	NoCal PPM
16) H Hydraulic Oil	16.000	249320919	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	166353920	71.389 PPM
18) H Oil Acid Clean MO Com...	22.000	92110408	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	92110408	48.212 PPM

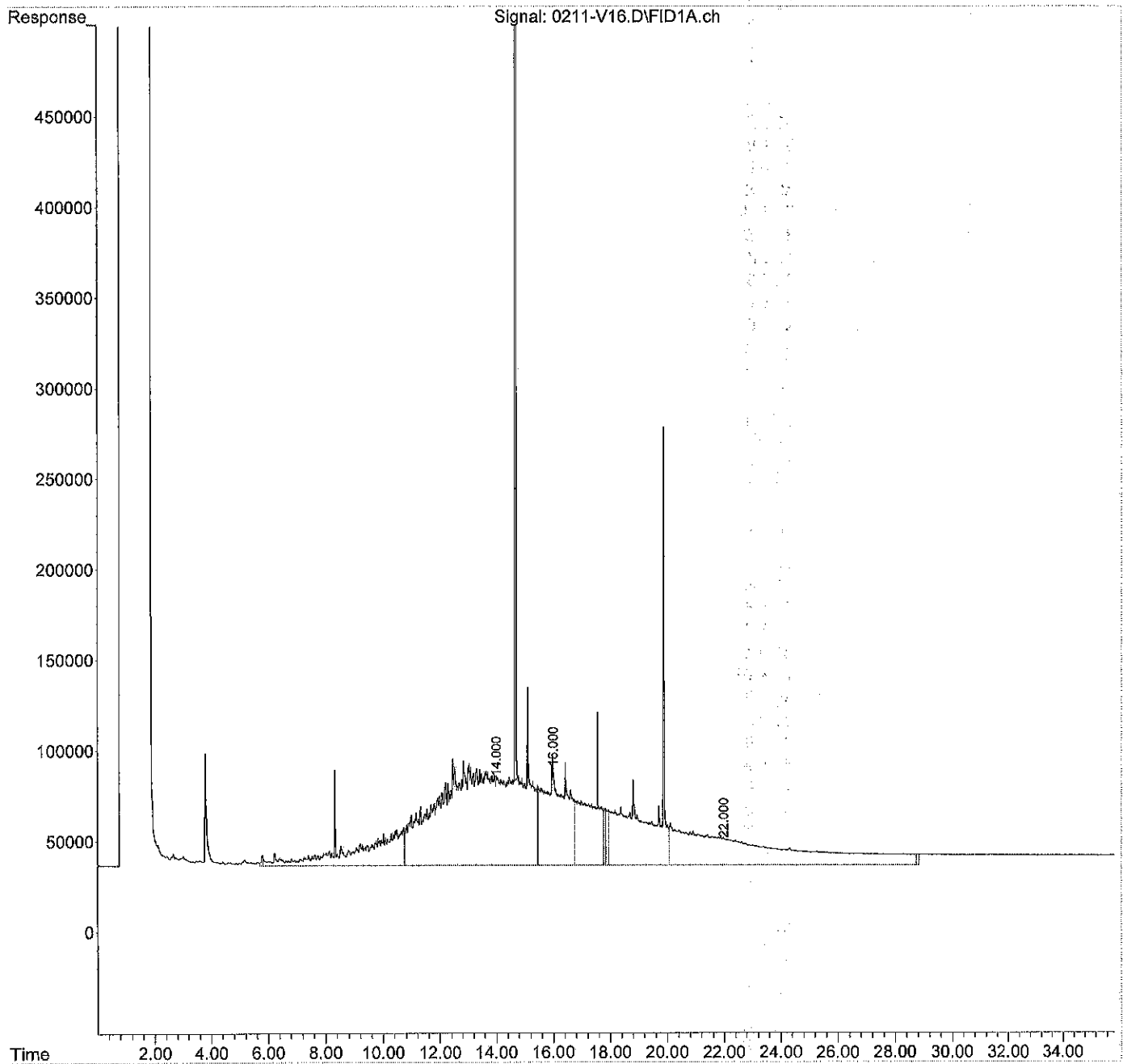
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V16.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 18:21
Operator : JP
Sample : 02-068-04
Misc : Sample
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 18:57:27 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V67.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 19:01
 Operator : JP
 Sample : 02-068-04 ACU
 Misc : RearSamp
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 19:38:05 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.619	136041030	54.753 PPM
Spiked Amount 50.000		Recovery =	109.51%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17962628	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	21744044	1.361 PPM
5) H Diesel Fuel #2 (05-1...	14.000	22738509	6.356 PPM
6) H Oil (05-19-21)	22.000	34744806	6.788 PPM
7) H Oil Acid Clean (05-21...	22.000	34744806	8.084 PPM
8) H Diesel Fuel #2 Combo ...	14.000	19378476	5.268 PPM
9) H Oil Combo (05-19-21)	22.000	30651773	4.672 PPM
10) H Oil Acid Clean Combo ...	22.000	30651773	6.232 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	22273457	6.284 PPM
12) H HAWAII 8015M Oil (05...	22.000	27287642	3.090 PPM
13) H Mineral Oil (05-19-21)	16.000	21007516	7.628 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	22738509	5.686 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	19378476	4.905 PPM
16) H Hydraulic Oil (03-19...	14.000	25433963	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	15136854	6.614 PPM
18) H Oil Acid Clean MO Com...	22.000	26656598	4.539 PPM
19) H Oil MO Combo (05-19-21)	22.000	26656598	2.645 PPM
20) H JP-4 (03-24-21)	8.000	33475206	NoCal PPM
21) H JP-5 (03-25-21)	8.000	16765822	NoCal PPM
22) H JP-8 (03-26-21)	8.000	18591663	NoCal PPM

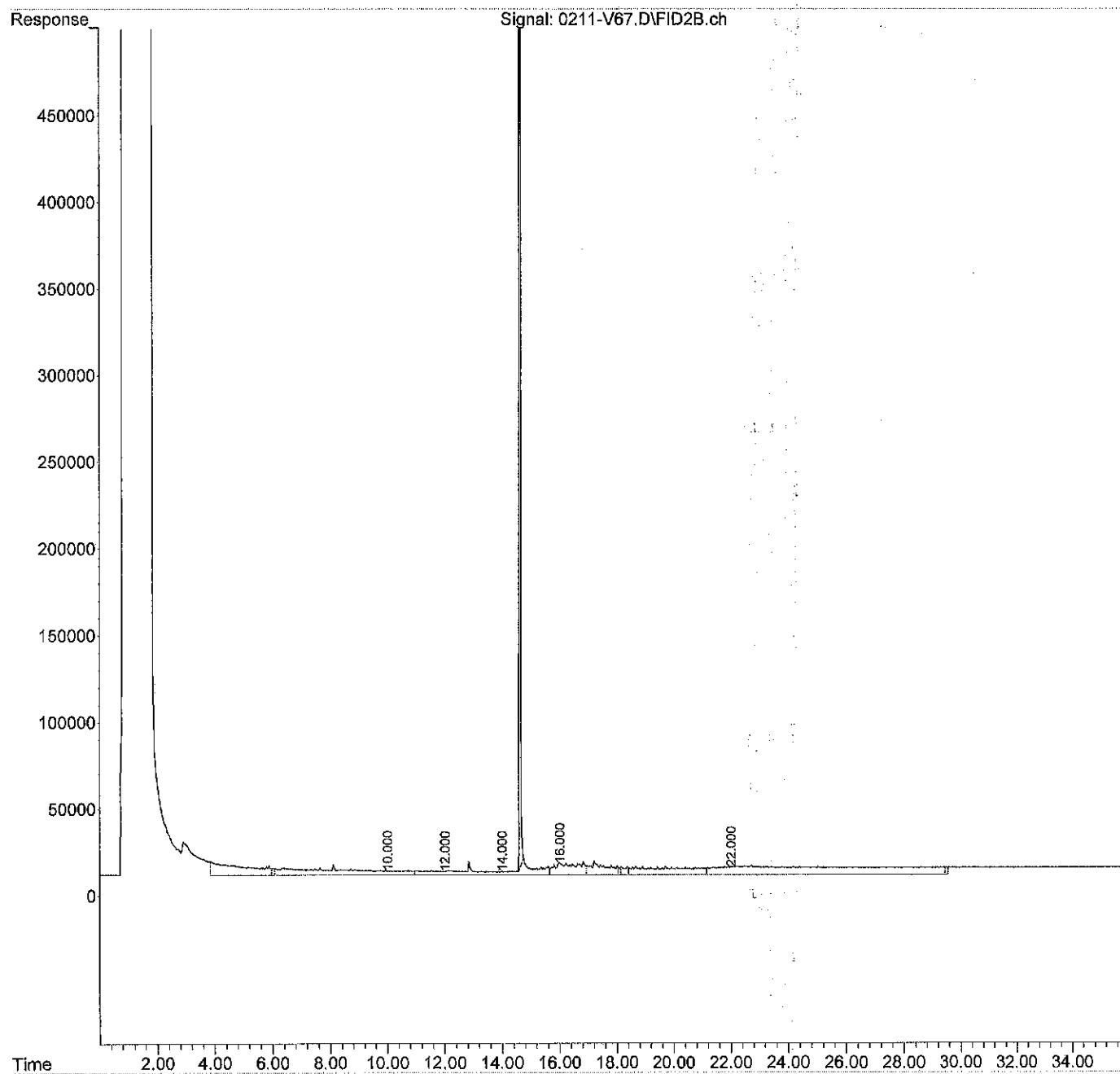
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V67.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 19:01
Operator : JP
Sample : 02-068-04 ACU
Misc : RearSamp
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 19:38:05 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V19.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 20:21
 Operator : JP
 Sample : 02-068-05
 Misc : Sample
 ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 20:57:13 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.678	118927913	40.802 PPM
Spiked Amount	50.000	Recovery =	81.60%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	7331238	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	71930467	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	87828278	39.315 PPM
6) H Oil (02-09-22)	22.000	78711463	38.737 PPM
7) H Oil Acid Clean (05-2...	22.000	78711463	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	78549194	36.138 PPM
9) H Oil Combo (02-09-22)	22.000	67242324	32.393 PPM
10) H Oil Acid Clean Combo ...	22.000	67242324	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	86862579	39.245 PPM
12) H HAWAII 8015M Oil (02...	22.000	58393200	28.116 PPM
13) H Mineral Oil (02-09-22)	16.000	82670071	35.365 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	87828278	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	78549194	NoCal PPM
16) H Hydraulic Oil	16.000	115019278	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	64254316	28.694 PPM
18) H Oil Acid Clean MO Com...	22.000	59322917	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	59322917	28.364 PPM

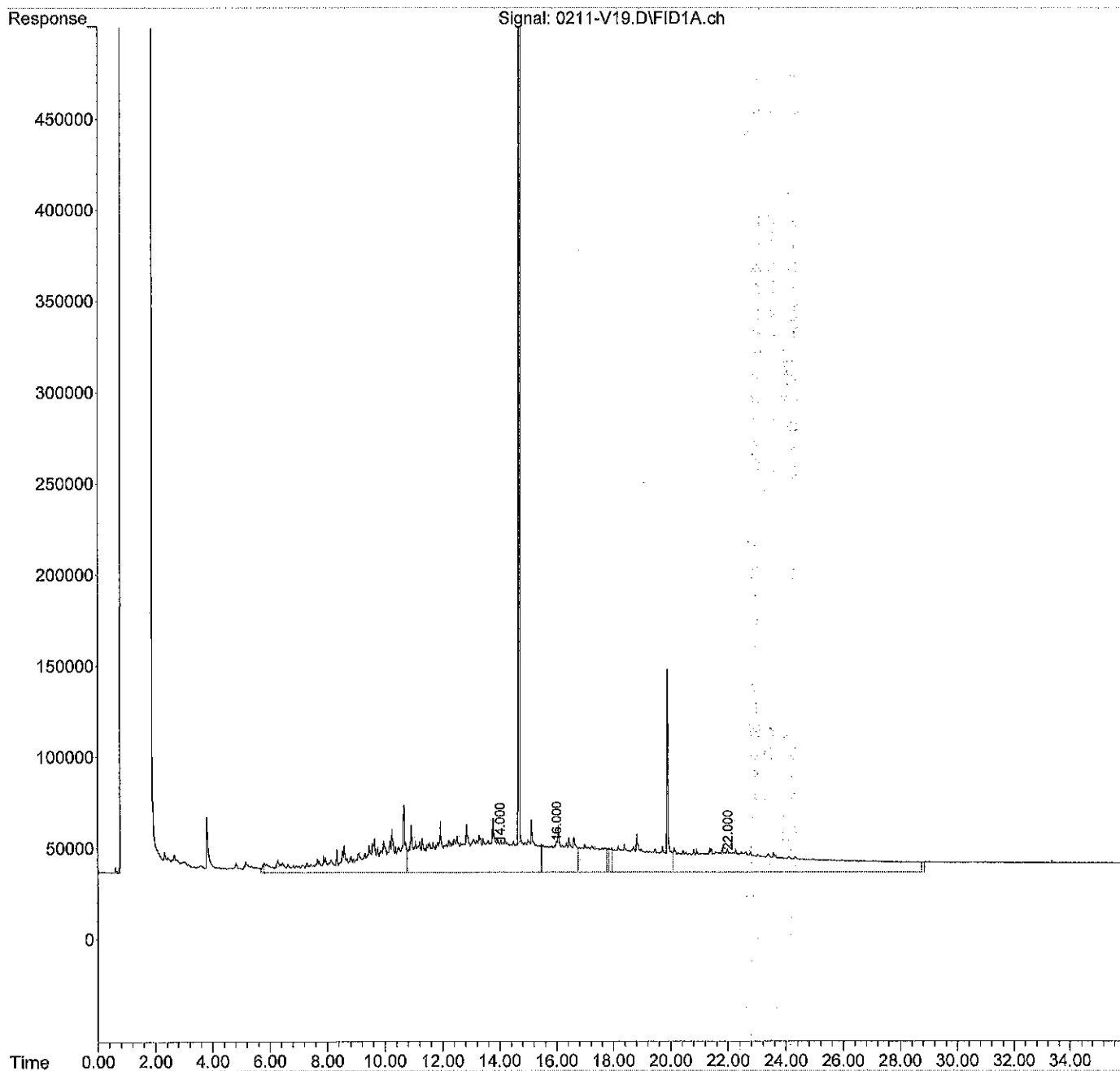
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V19.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 20:21
Operator : JP
Sample : 02-068-05
Misc : Sample
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 20:57:13 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V68.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 19:41
 Operator : JP
 Sample : 02-068-05 ACU
 Misc : RearSamp
 ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 20:17:53 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.621	148054518	59.561 PPM
Spiked Amount 50.000		Recovery =	119.12%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	18269893	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	29441885	3.240 PPM
5) H Diesel Fuel #2 (05-1...	14.000	30173675	9.887 PPM
6) H Oil (05-19-21)	22.000	36524548	7.922 PPM
7) H Oil Acid Clean (05-21...	22.000	36524548	9.143 PPM
8) H Diesel Fuel #2 Combo ...	14.000	26622316	8.804 PPM
9) H Oil Combo (05-19-21)	22.000	32491259	5.862 PPM
10) H Oil Acid Clean Combo ...	22.000	32491259	7.343 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	29672819	9.825 PPM
12) H HAWAII 8015M Oil (05-...	22.000	28954196	4.205 PPM
13) H Mineral Oil (05-19-21)	16.000	24519278	9.165 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	30173675	8.753 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	26622316	7.982 PPM
16) H Hydraulic Oil (03-19...	14.000	29738235	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	17781371	7.801 PPM
18) H Oil Acid Clean MO Com...	22.000	28262413	5.552 PPM
19) H Oil MO Combo (05-19-21)	22.000	28262413	3.730 PPM
20) H JP-4 (03-24-21)	8.000	39900327	NoCal PPM
21) H JP-5 (03-25-21)	8.000	23324637	NoCal PPM
22) H JP-8 (03-26-21)	8.000	25891094	NoCal PPM

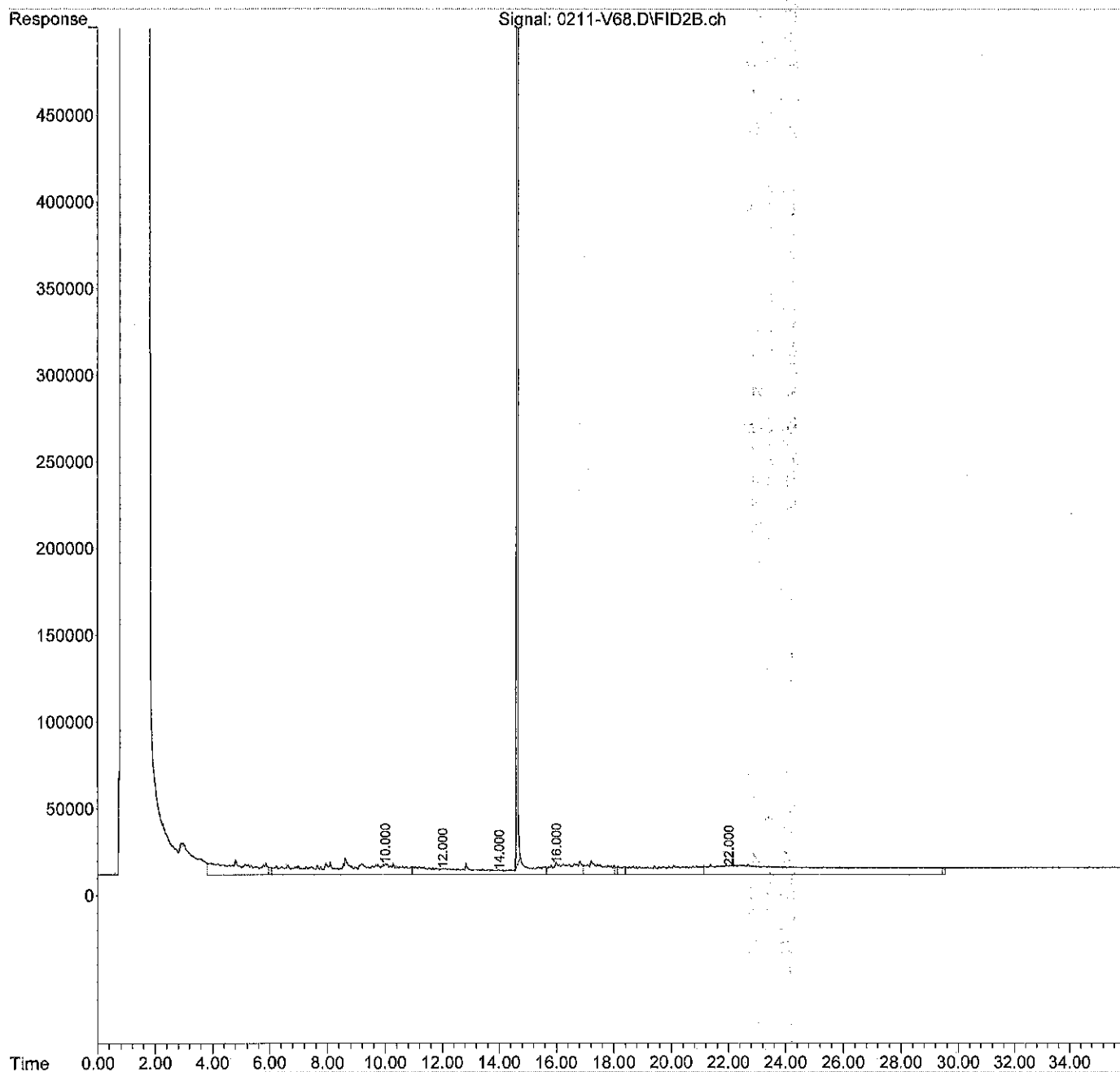
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V68.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 19:41
Operator : JP
Sample : 02-068-05 ACU
Misc : RearSamp
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 20:17:53 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V20.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 21:00
 Operator : JP
 Sample : 02-068-06
 Misc : Sample
 ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 21:37:00 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.676	106576034	36.578 PPM
Spiked Amount	50.000	Recovery =	73.16%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	11015206	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	474843341	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	567313241	243.988 PPM
6) H Oil (02-09-22)	22.000	240181912	132.394 PPM
7) H Oil Acid Clean (05-2...	22.000	240181912	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	524392777	231.875 PPM
9) H Oil Combo (02-09-22)	22.000	183772566	101.008 PPM
10) H Oil Acid Clean Combo ...	22.000	183772566	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	562827520	244.505 PPM
12) H HAWAII 8015M Oil (02...	22.000	143807385	80.229 PPM
13) H Mineral Oil (02-09-22)	16.000	491496749	200.098 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	567313241	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	524392777	NoCal PPM
16) H Hydraulic Oil	16.000	566430366	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	423972234	179.120 PPM
18) H Oil Acid Clean MO Com...	22.000	146971514	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	146971514	81.421 PPM

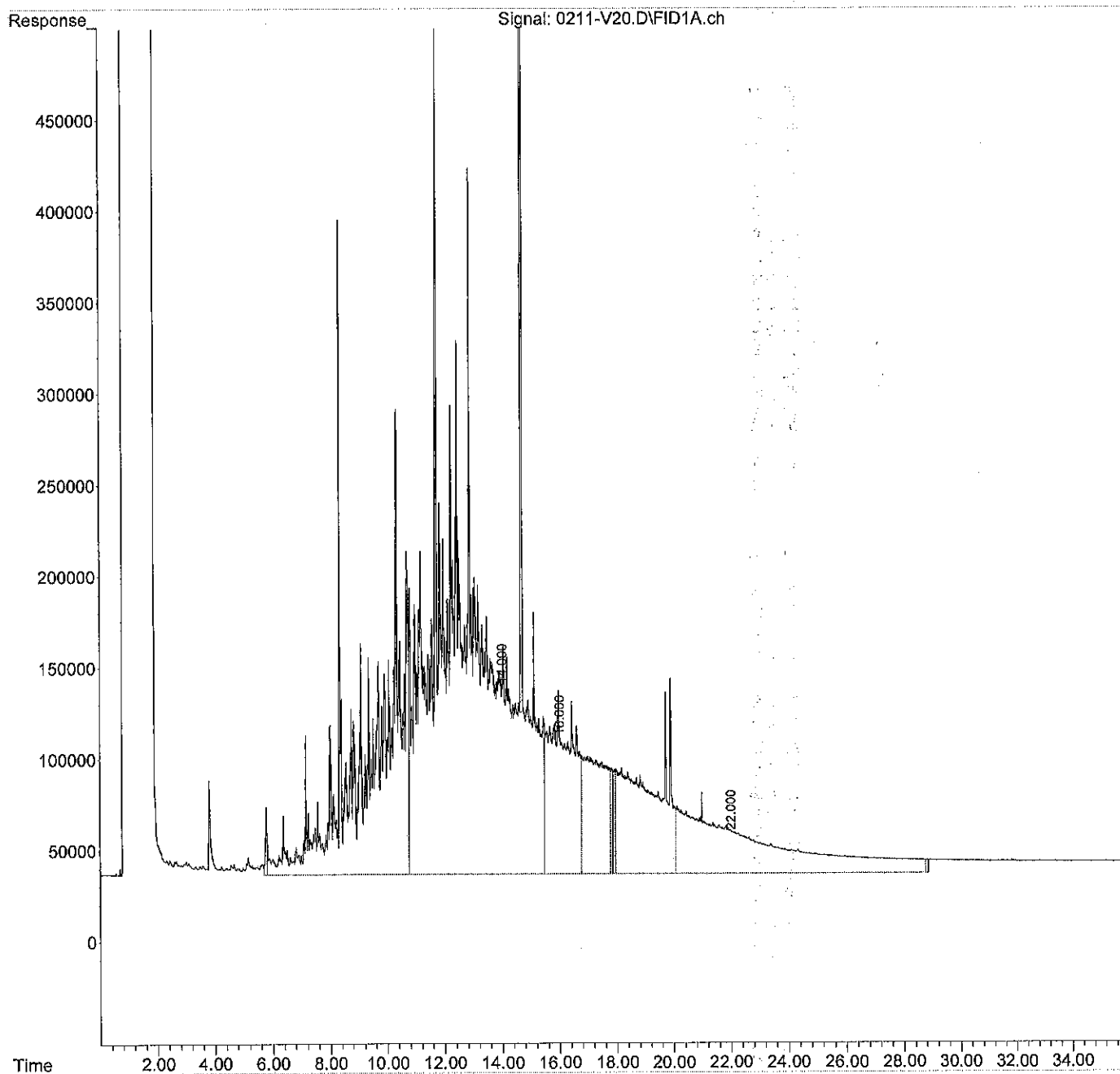
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V20.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 21:00
Operator : JP
Sample : 02-068-06
Misc : Sample
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 21:37:00 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V69.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 20:21
 Operator : JP
 Sample : 02-068-06 ACU
 Misc : RearSamp
 ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 20:57:50 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.617	122642387	49.391 PPM
Spiked Amount	50.000	Recovery =	98.78%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	18464154	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	33572076	4.248 PPM
5) H Diesel Fuel #2 (05-1...	14.000	36374001	12.831 PPM
6) H Oil (05-19-21)	22.000	40393249	10.386 PPM
7) H Oil Acid Clean (05-21...	22.000	40393249	11.444 PPM
8) H Diesel Fuel #2 Combo ...	14.000	31807063	11.335 PPM
9) H Oil Combo (05-19-21)	22.000	35307569	7.684 PPM
10) H Oil Acid Clean Combo ...	22.000	35307569	9.044 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	35776006	12.746 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30822294	5.455 PPM
13) H Mineral Oil (05-19-21)	16.000	27307510	10.385 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	36374001	11.311 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	31807063	10.184 PPM
16) H Hydraulic Oil (03-19...	14.000	32740513	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	19018816	8.356 PPM
18) H Oil Acid Clean MO Com...	22.000	29851150	6.555 PPM
19) H Oil MO Combo (05-19-21)	22.000	29851150	4.804 PPM
20) H JP-4 (03-24-21)	8.000	44305295	NoCal PPM
21) H JP-5 (03-25-21)	8.000	28173094	NoCal PPM
22) H JP-8 (03-26-21)	8.000	30181824	NoCal PPM

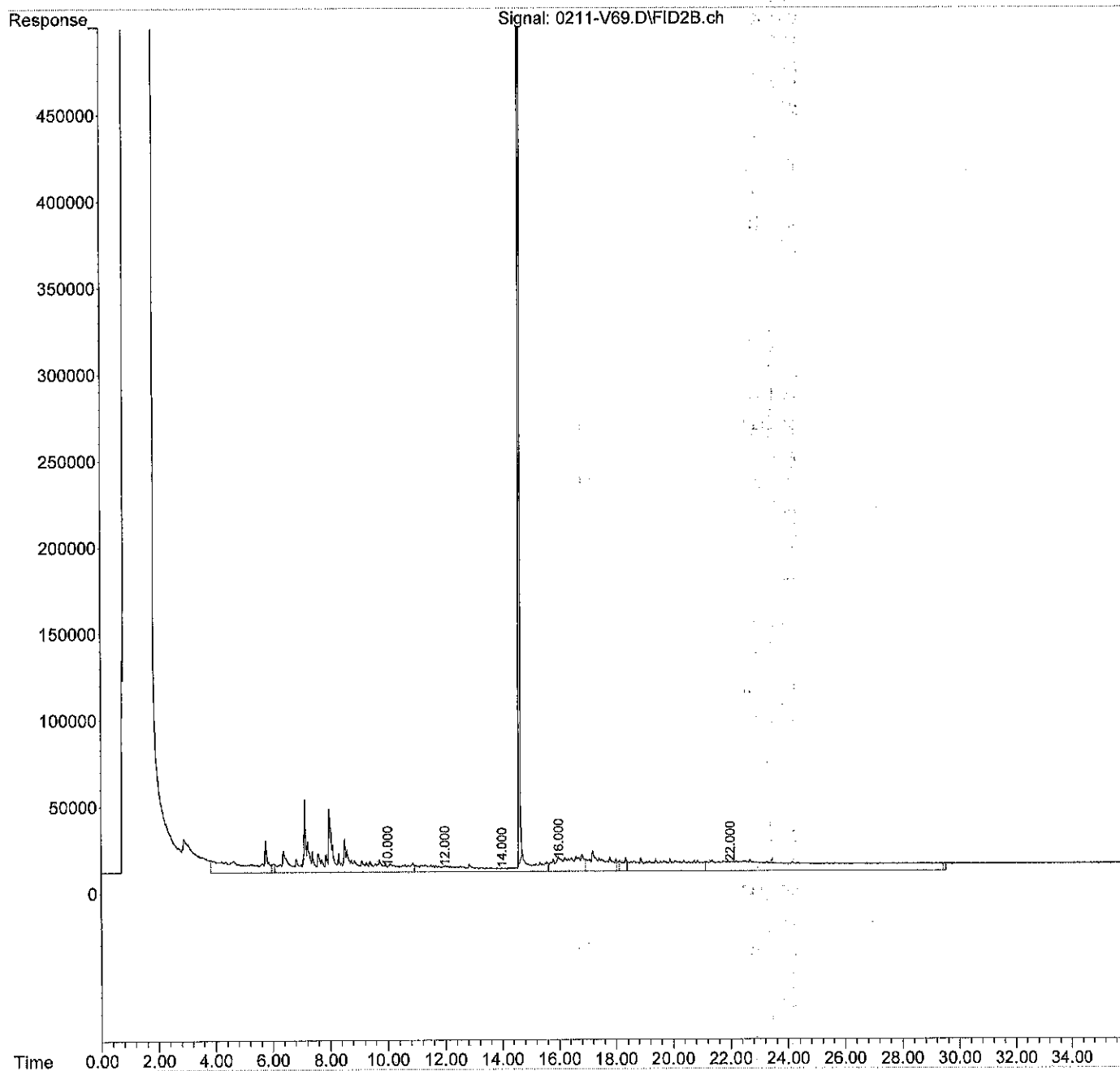
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V69.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 20:21
Operator : JP
Sample : 02-068-06 ACU
Misc : RearSamp
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 20:57:50 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220210.SEC\
 Data File : 0210-V67.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 19:26
 Operator : JP
 Sample : MB0209W1
 Misc : RearSamp
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 20:03:29 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.622	147034151	59.153 PPM
Spiked Amount 50.000		Recovery =	118.31%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17801690	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	22460668	1.536 PPM
5) H Diesel Fuel #2 (05-1...	14.000	19942085	5.029 PPM
6) H Oil (05-19-21)	22.000	33502967	5.997 PPM
7) H Oil Acid Clean (05-21...	22.000	33502967	7.345 PPM
8) H Diesel Fuel #2 Combo ...	14.000	18371483	4.776 PPM
9) H Oil Combo (05-19-21)	22.000	31321487	5.105 PPM
10) H Oil Acid Clean Combo ...	22.000	31321487	6.637 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	19572342	4.991 PPM
12) H HAWAII 8015M Oil (05...	22.000	29585332	4.627 PPM
13) H Mineral Oil (05-19-21)	16.000	16194037	5.522 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	19942085	4.533 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	18371483	4.478 PPM
16) H Hydraulic Oil (03-19...	14.000	21115091	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	11524851	4.994 PPM
18) H Oil Acid Clean MO Com...	22.000	29359874	6.245 PPM
19) H Oil MO Combo (05-19-21)	22.000	29359874	4.472 PPM
20) H JP-4 (03-24-21)	8.000	34270542	NoCal PPM
21) H JP-5 (03-25-21)	8.000	17393643	NoCal PPM
22) H JP-8 (03-26-21)	8.000	19384003	NoCal PPM

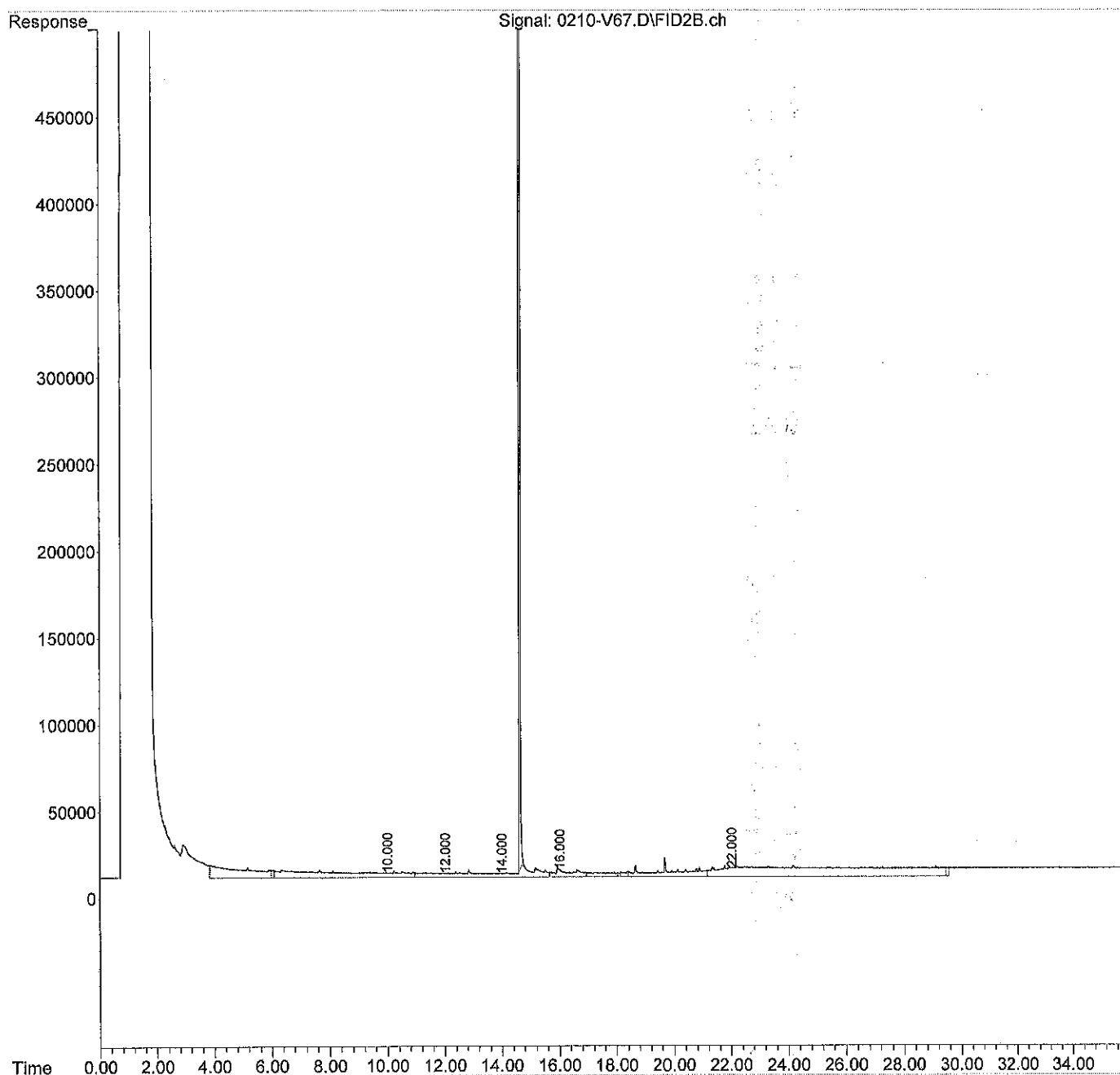
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220210.SEC\
Data File : 0210-V67.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 19:26
Operator : JP
Sample : MB0209W1
Misc : RearSamp
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 20:03:29 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V72.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 22:20
 Operator : JP
 Sample : MB0209W1 ACU
 Misc : RearSamp
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 22:57:32 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.621	156807078	63.064 PPM
Spiked Amount	50.000	Recovery	= 126.13%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	15407923	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	15423635	N.D. PPM
5) H Diesel Fuel #2 (05-1...	14.000	15533111	2.935 PPM
6) H Oil (05-19-21)	22.000	28818092	3.013 PPM
7) H Oil Acid Clean (05-21...	22.000	28818092	4.558 PPM
8) H Diesel Fuel #2 Combo ...	14.000	13275670	2.289 PPM
9) H Oil Combo (05-19-21)	22.000	25741279	1.496 PPM
10) H Oil Acid Clean Combo ...	22.000	25741279	3.267 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	15196077	2.897 PPM
12) H HAWAII 8015M Oil (05-...	22.000	23414085	0.498 PPM
13) H Mineral Oil (05-19-21)	16.000	14737625	4.884 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	15533111	2.714 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	13275670	2.313 PPM
16) H Hydraulic Oil (03-19...	14.000	18411642	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	10666332	4.609 PPM
18) H Oil Acid Clean MO Com...	22.000	23056419	2.267 PPM
19) H Oil MO Combo (05-19-21)	22.000	23056419	0.211 PPM
20) H JP-4 (03-24-21)	8.000	27277410	NoCal PPM
21) H JP-5 (03-25-21)	8.000	11727751	NoCal PPM
22) H JP-8 (03-26-21)	8.000	12765914	NoCal PPM

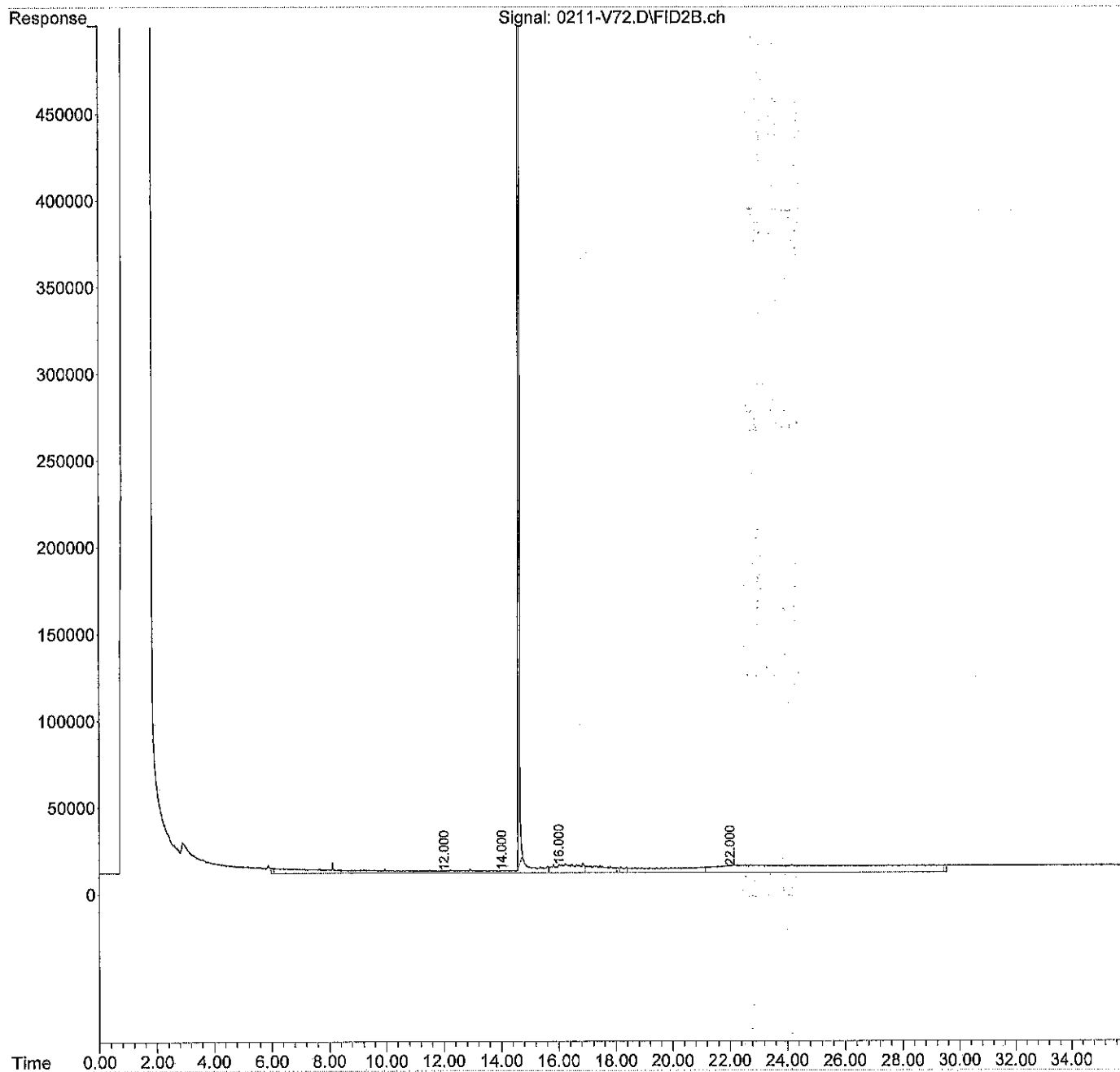
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V72.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 22:20
Operator : JP
Sample : MB0209W1 ACU
Misc : RearSamp
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 22:57:32 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220210.SEC\
 Data File : 0210-V69.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 20:46
 Operator : JP
 Sample : SB0209W1 ~~DFP~~
 Misc : RearSamp
 ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 21:23:25 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.618	125565169	50.561 PPM
Spiked Amount	50.000	Recovery =	101.12%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	31728843	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	199994030	44.861 PPM
5) H Diesel Fuel #2 (05-1...	14.000	203017346	91.958 PPM
6) H Oil (05-19-21)	22.000	44063575	12.724 PPM
7) H Oil Acid Clean (05-21...	22.000	44063575	13.628 PPM
8) H Diesel Fuel #2 Combo ...	14.000	198131235	92.531 PPM
9) H Oil Combo (05-19-21)	22.000	31757571	5.387 PPM
10) H Oil Acid Clean Combo ...	22.000	31757571	6.900 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	202177153	92.385 PPM
12) H HAWAII 8015M Oil (05-...	22.000	26846974	2.795 PPM
13) H Mineral Oil (05-19-21)	16.000	139138749	59.323 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	203017346	80.047 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	198131235	80.824 PPM
16) H Hydraulic Oil (03-19...	14.000	146688151	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	134889500	60.342 PPM
18) H Oil Acid Clean MO Com...	22.000	26243526	4.278 PPM
19) H Oil MO Combo (05-19-21)	22.000	26243526	2.366 PPM
20) H JP-4 (03-24-21)	8.000	145220434	NoCal PPM
21) H JP-5 (03-25-21)	8.000	125096660	NoCal PPM
22) H JP-8 (03-26-21)	8.000	170644642	NoCal PPM

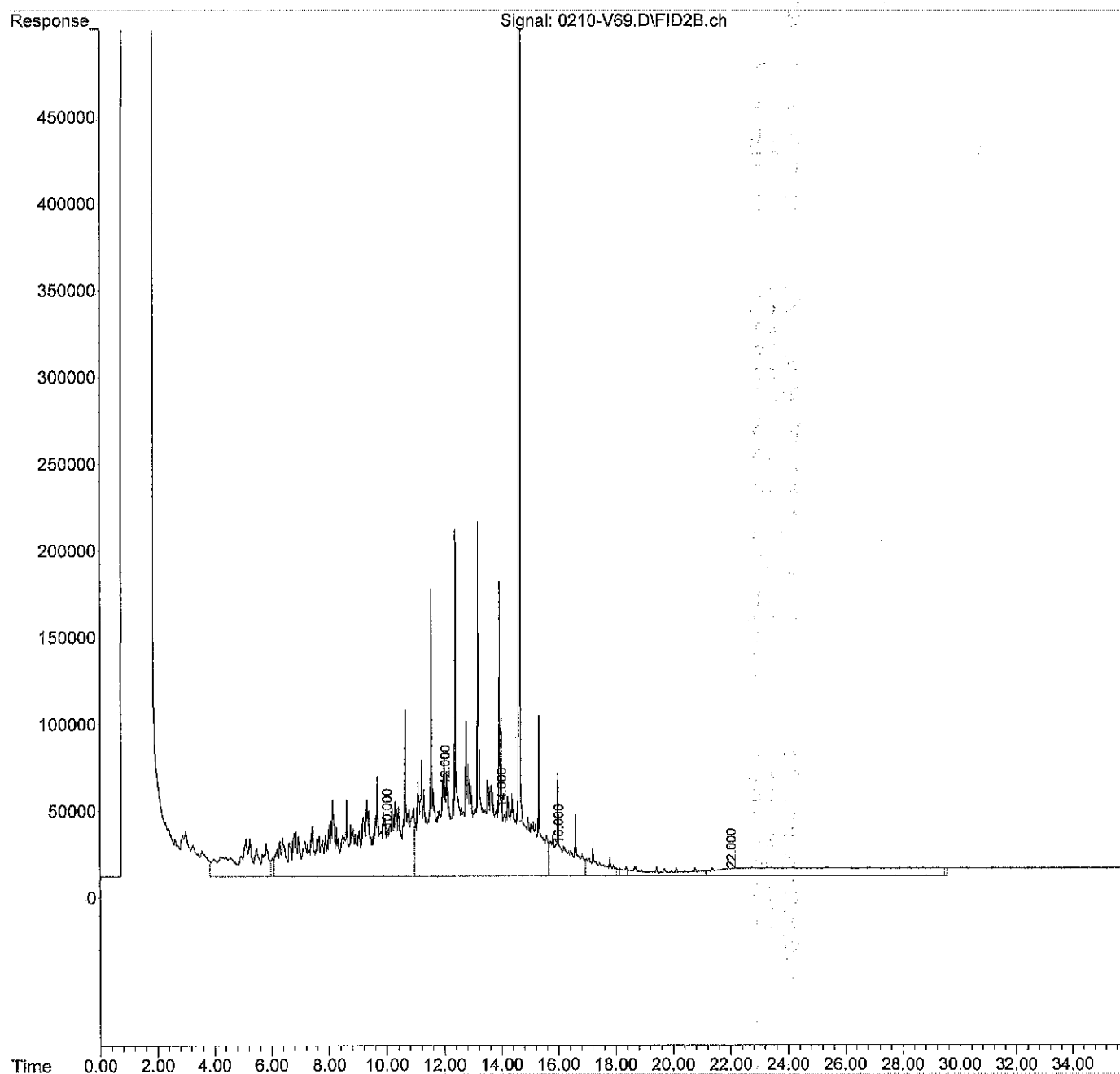
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220210.SEC\
Data File : 0210-V69.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 20:46
Operator : JP
Sample : SB0209W1 DUP
Misc : RearSamp
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 21:23:25 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220210.SEC\
 Data File : 0210-V68.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 20:06
 Operator : JP
 Sample : SB0209W1 *Rep*
 Misc : RearSamp
 ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 20:43:20 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.617	110856742	44.674 PPM
Spiked Amount 50.000		Recovery =	89.35%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	30662232	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	182981031	40.709 PPM
5) H Diesel Fuel #2 (05-1...	14.000	185125851	83.463 PPM
6) H Oil (05-19-21)	22.000	43587681	12.421 PPM
7) H Oil Acid Clean (05-21...	22.000	43587681	13.345 PPM
8) H Diesel Fuel #2 Combo ...	14.000	180593493	83.969 PPM
9) H Oil Combo (05-19-21)	22.000	32414356	5.812 PPM
10) H Oil Acid Clean Combo ...	22.000	32414356	7.297 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	184316447	83.837 PPM
12) H HAWAII 8015M Oil (05-...	22.000	27838320	3.458 PPM
13) H Mineral Oil (05-19-21)	16.000	126683693	53.872 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	185125851	72.667 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	180593493	73.376 PPM
16) H Hydraulic Oil (03-19...	14.000	134075199	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	122393898	54.736 PPM
18) H Oil Acid Clean MO Com...	22.000	27272511	4.928 PPM
19) H Oil MO Combo (05-19-21)	22.000	27272511	3.061 PPM
20) H JP-4 (03-24-21)	8.000	134941947	NoCal PPM
21) H JP-5 (03-25-21)	8.000	115155272	NoCal PPM
22) H JP-8 (03-26-21)	8.000	156193160	NoCal PPM

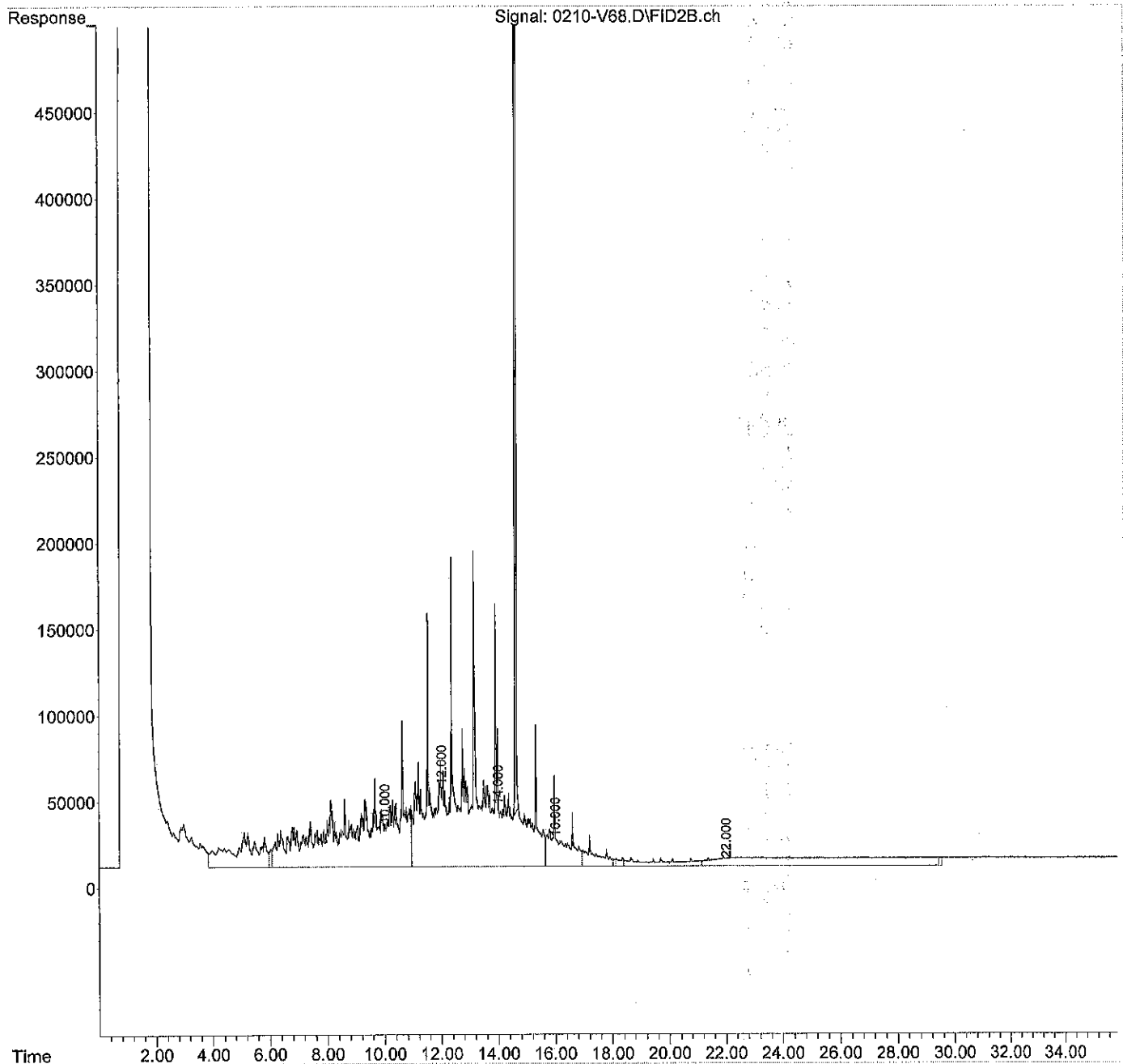
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220210.SEC\
Data File : 0210-V68.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 20:06
Operator : JP
Sample : SB0209W1 Dup
Misc : RearSamp
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 20:43:20 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V73.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 23:00
 Operator : JP
 Sample : SB0209W1 ACU
 Misc : RearSamp
 ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 23:37:15 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.618	136140955	54.793 PPM
Spiked Amount	50.000	Recovery =	109.59%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	32637233	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	237968401	54.128 PPM
5) H Diesel Fuel #2 (05-1...	14.000	248837166	113.715 PPM
6) H Oil (05-19-21)	22.000	55813950	20.209 PPM
7) H Oil Acid Clean (05-21...	22.000	55813950	20.619 PPM
8) H Diesel Fuel #2 Combo ...	14.000	240415583	113.173 PPM
9) H Oil Combo (05-19-21)	22.000	38407129	9.688 PPM
10) H Oil Acid Clean Combo ...	22.000	38407129	10.916 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	247737473	114.190 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30213716	5.048 PPM
13) H Mineral Oil (05-19-21)	16.000	179073830	76.798 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	248837166	98.946 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	240415583	98.783 PPM
16) H Hydraulic Oil (03-19...	14.000	187925051	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	170745590	76.429 PPM
18) H Oil Acid Clean MO Com...	22.000	28772221	5.874 PPM
19) H Oil MO Combo (05-19-21)	22.000	28772221	4.075 PPM
20) H JP-4 (03-24-21)	8.000	165052218	NoCal PPM
21) H JP-5 (03-25-21)	8.000	145521912	NoCal PPM
22) H JP-8 (03-26-21)	8.000	201986803	NoCal PPM

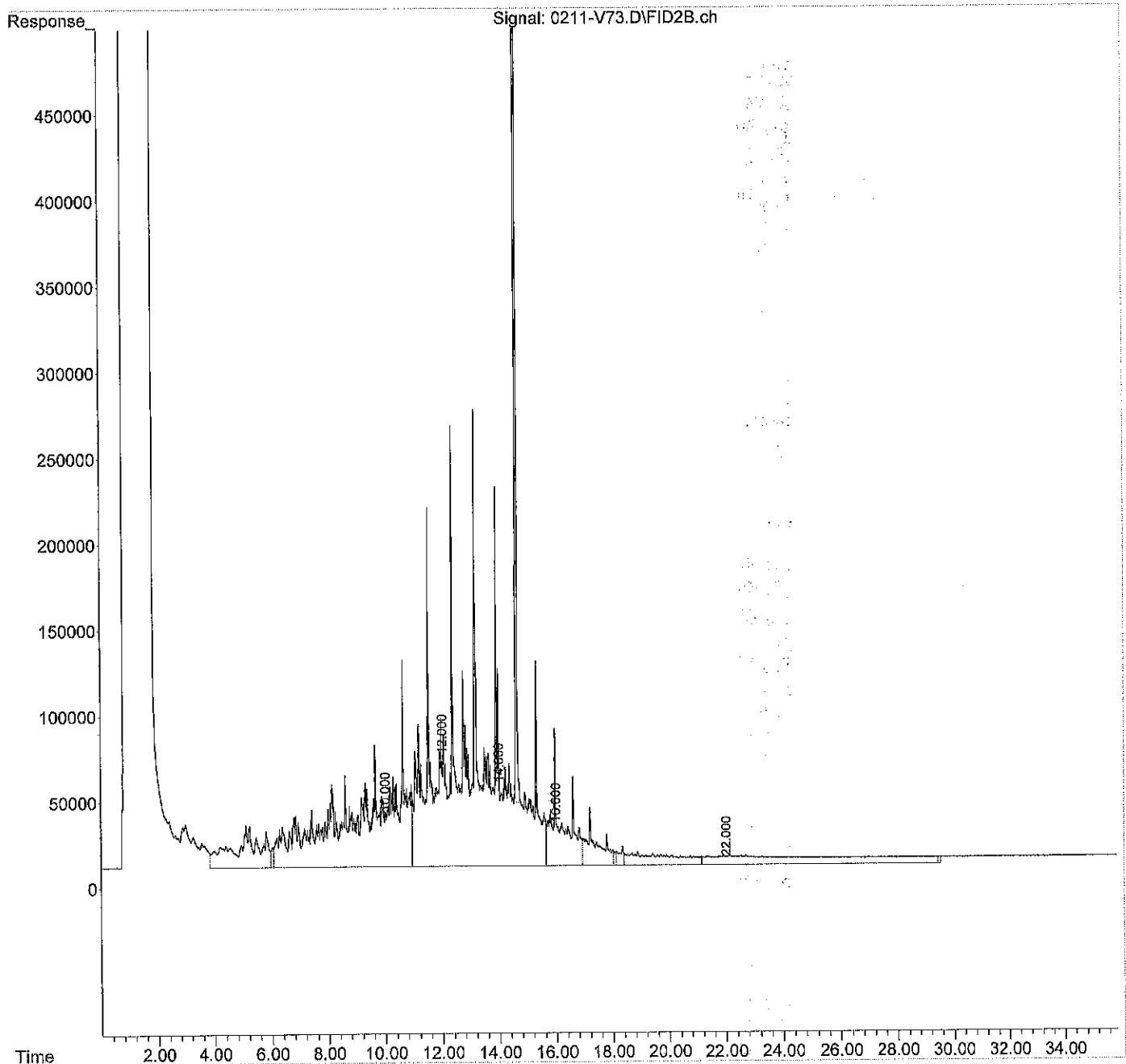
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V73.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 23:00
Operator : JP
Sample : SB0209W1 ACU
Misc : RearSamp
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 23:37:15 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V63.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 16:21
 Operator : JP
 Sample : SB0209W1 ACU *Dup*
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 16:58:25 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.619	133903275	53.898 PPM
Spiked Amount 50.000		Recovery =	107.80%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	31521074	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	231235394	52.485 PPM
5) H Diesel Fuel #2 (05-1...	14.000	243792710	111.320 PPM
6) H Oil (05-19-21)	22.000	57251485	21.125 PPM
7) H Oil Acid Clean (05-21...	22.000	57251485	21.474 PPM
8) H Diesel Fuel #2 Combo ...	14.000	235130467	110.593 PPM
9) H Oil Combo (05-19-21)	22.000	38972994	10.054 PPM
10) H Oil Acid Clean Combo ...	22.000	38972994	11.257 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	242715801	111.787 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30521508	5.254 PPM
13) H Mineral Oil (05-19-21)	16.000	175179956	75.094 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	243792710	96.866 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	235130467	96.539 PPM
16) H Hydraulic Oil (03-19...	14.000	184049006	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	167890855	75.149 PPM
18) H Oil Acid Clean MO Com...	22.000	29124503	6.097 PPM
19) H Oil MO Combo (05-19-21)	22.000	29124503	4.313 PPM
20) H JP-4 (03-24-21)	8.000	159750531	NoCal PPM
21) H JP-5 (03-25-21)	8.000	140898150	NoCal PPM
22) H JP-8 (03-26-21)	8.000	195483425	NoCal PPM

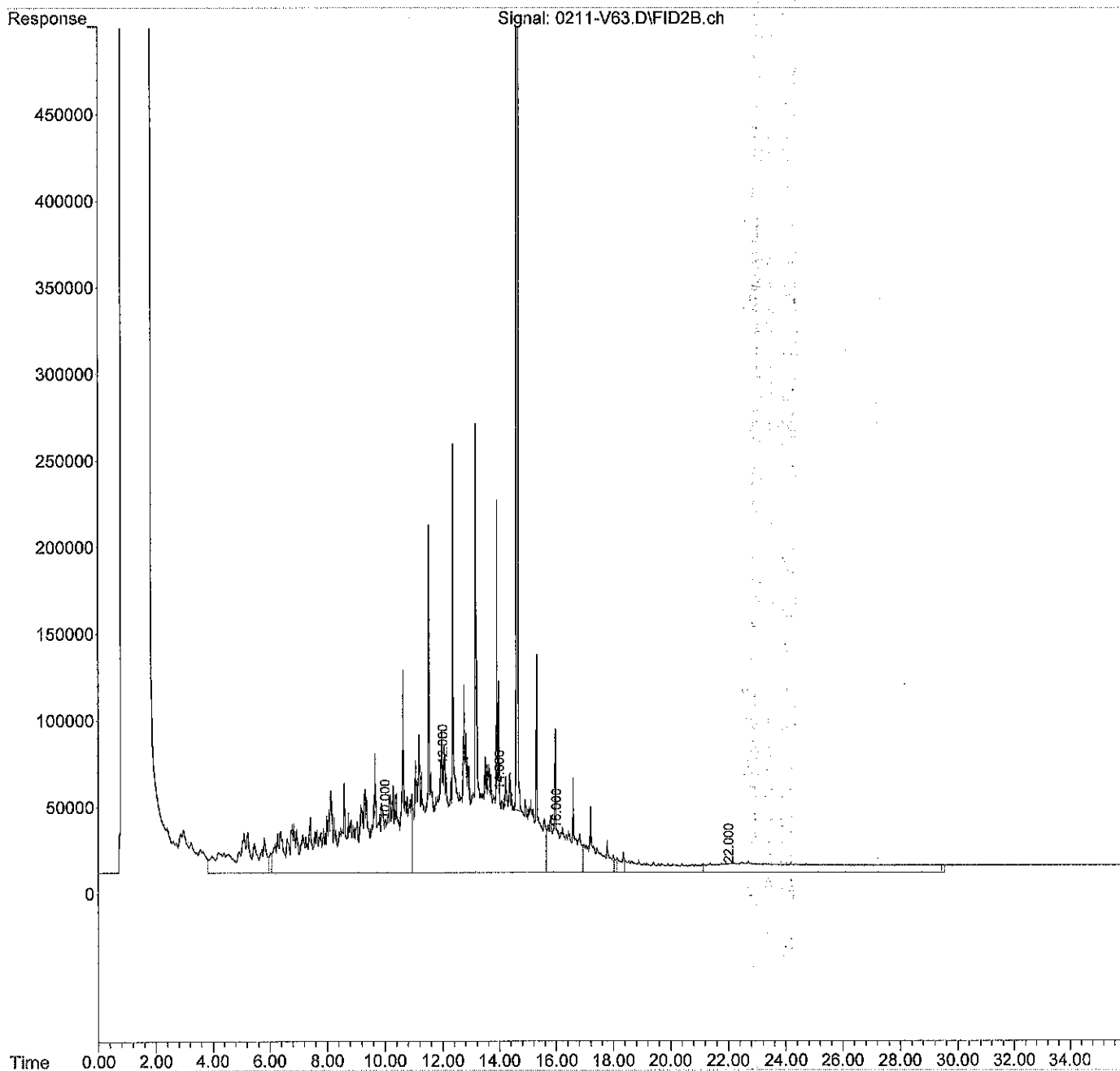
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V63.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 16:21
Operator : JP
Sample : SB0209W1 ACU *Dup*
Misc : RearSamp
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 16:58:25 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220210.SEC\
 Data File : 0210-V60.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 14:46
 Operator : JP
 Sample : CCV0210R-V3
 Misc : RearSamp
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 15:23:28 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.614	1759163	1.012 PPM
Spiked Amount 50.000		Recovery =	2.02%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	36438467	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	217745309	49.193 PPM
5) H Diesel Fuel #2 (05-1...	14.000	218534896	99.327 PPM
6) H Oil (05-19-21)	22.000	101258251	49.157 PPM
7) H Oil Acid Clean (05-21...	22.000	101258251	47.655 PPM
8) H Diesel Fuel #2 Combo ...	14.000	212900219	99.741 PPM
9) H Oil Combo (05-19-21)	22.000	88905451	42.350 PPM
10) H Oil Acid Clean Combo ...	22.000	88905451	41.409 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	217521477	99.729 PPM
12) H HAWAII 8015M Oil (05...	22.000	82885254	40.289 PPM
13) H Mineral Oil (05-19-21)	16.000	151594528	64.773 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	218534896	86.447 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	212900219	87.097 PPM
16) H Hydraulic Oil (03-19...	14.000	170960259	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	140304233	62.772 PPM
18) H Oil Acid Clean MO Com...	22.000	82416336	39.731 PPM
19) H Oil MO Combo (05-19-21)	22.000	82416336	40.335 PPM
20) H JP-4 (03-24-21)	8.000	161998680	NoCal PPM
21) H JP-5 (03-25-21)	8.000	141366506	NoCal PPM
22) H JP-8 (03-26-21)	8.000	188213415	NoCal PPM

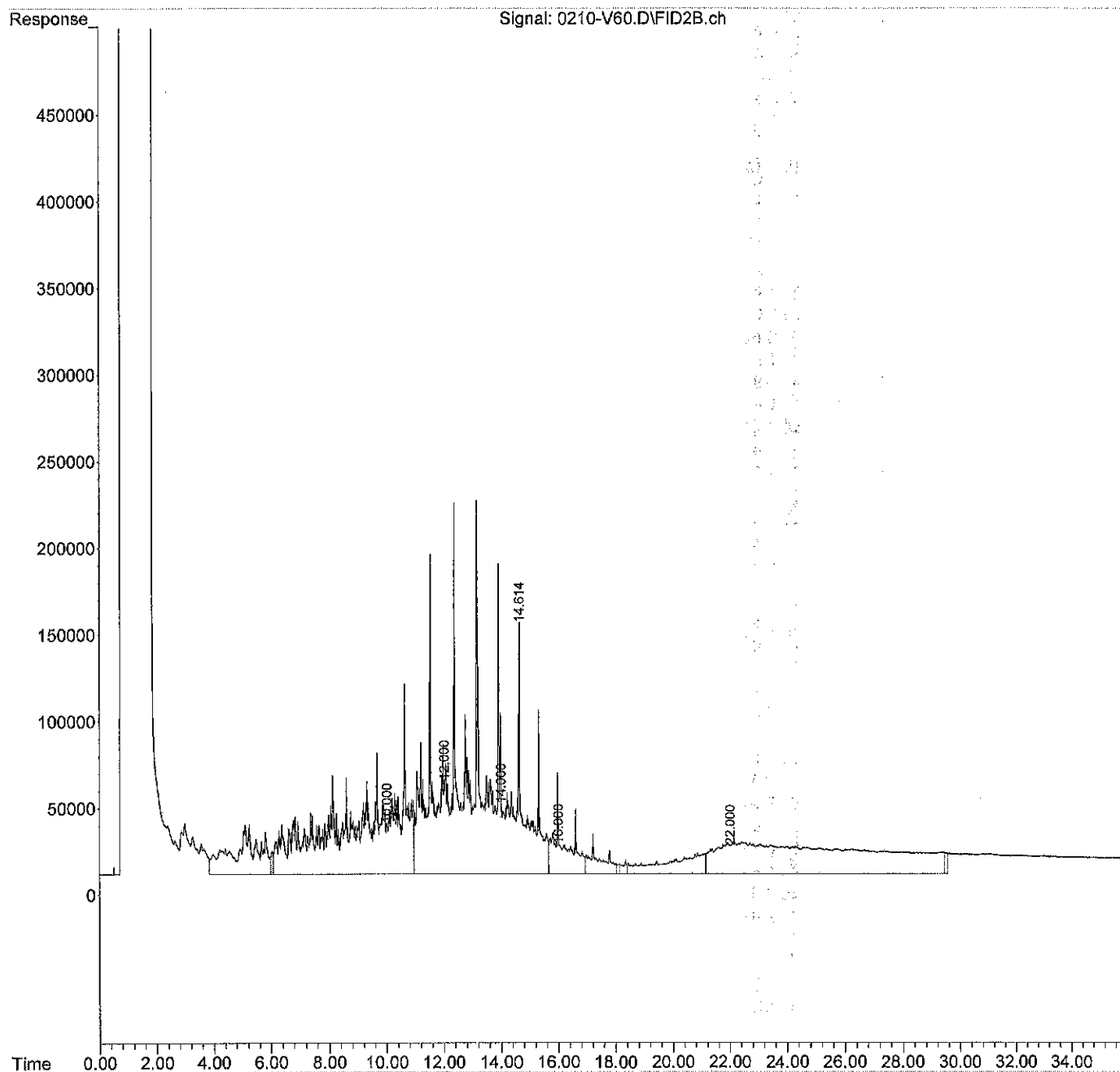
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220210.SEC\
Data File : 0210-V60.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 14:46
Operator : JP
Sample : CCV0210R-V3
Misc : RearSamp
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 15:23:28 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220210.SEC\
 Data File : 0210-V72.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 22:46
 Operator : JP
 Sample : CCV0210R-V4
 Misc : RearSamp
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 23:23:02 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount 50.000		Recovery =	0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	36512738	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	210842368	47.509 PPM
5) H Diesel Fuel #2 (05-1...	14.000	208828812	94.718 PPM
6) H Oil (05-19-21)	22.000	38738420	9.332 PPM
7) H Oil Acid Clean (05-21...	22.000	38738420	10.460 PPM
8) H Diesel Fuel #2 Combo ...	14.000	204726346	95.750 PPM
9) H Oil Combo (05-19-21)	22.000	27855134	2.863 PPM
10) H Oil Acid Clean Combo ...	22.000	27855134	4.544 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	207936221	95.142 PPM
12) H HAWAII 8015M Oil (05-...	22.000	23699743	0.689 PPM
13) H Mineral Oil (05-19-21)	16.000	135826122	57.873 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	208828812	82.444 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	204726346	83.625 PPM
16) H Hydraulic Oil (03-19...	14.000	143012095	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	132795424	59.403 PPM
18) H Oil Acid Clean MO Com...	22.000	23264126	2.398 PPM
19) H Oil MO Combo (05-19-21)	22.000	23264126	0.352 PPM
20) H JP-4 (03-24-21)	8.000	158150453	NoCal PPM
21) H JP-5 (03-25-21)	8.000	136817078	NoCal PPM
22) H JP-8 (03-26-21)	8.000	181578726	NoCal PPM

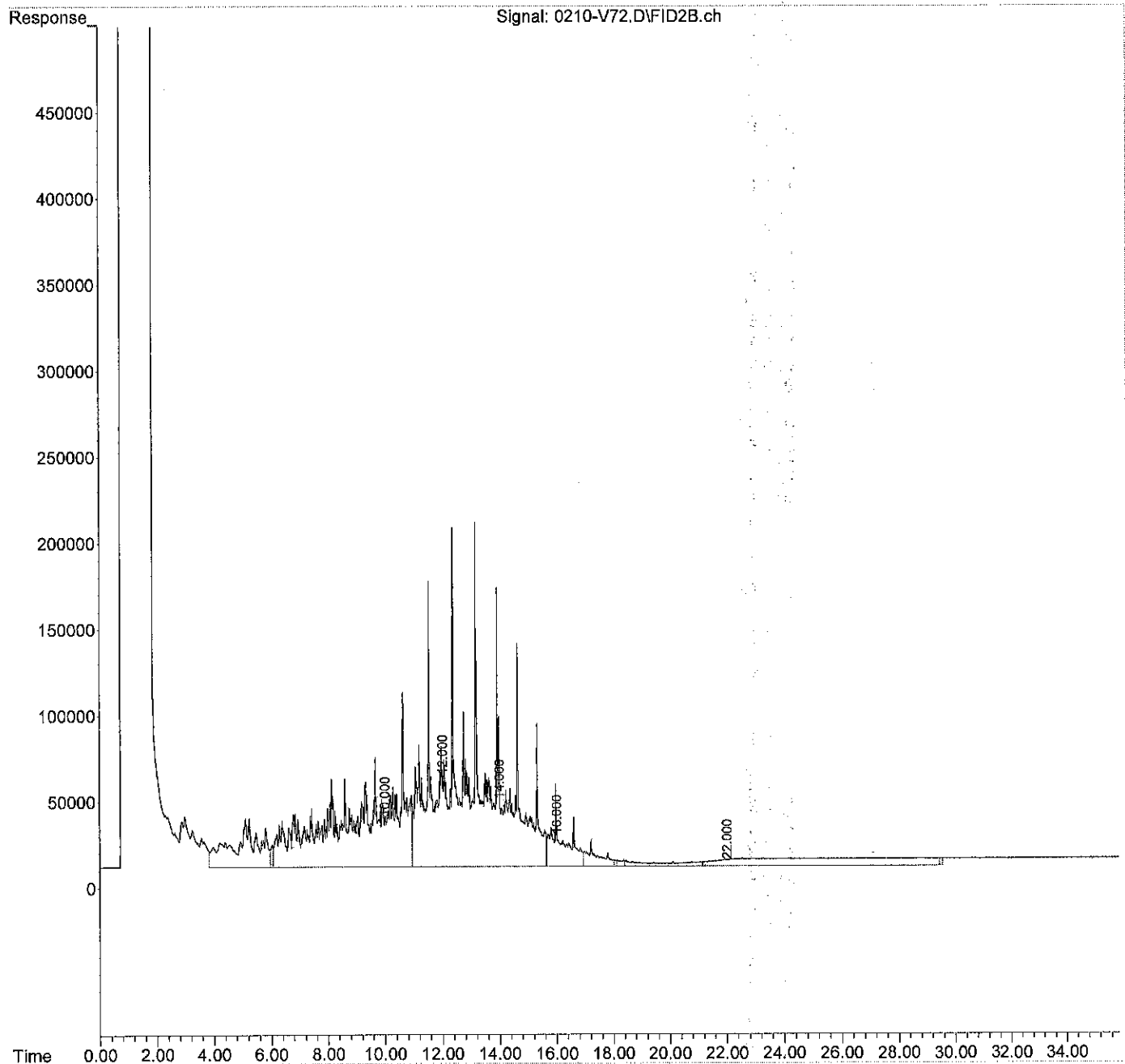
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220210.SEC\
Data File : 0210-V72.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 22:46
Operator : JP
Sample : CCV0210R-V4
Misc : RearSamp
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 23:23:02 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V10.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 14:17
 Operator : JP
 Sample : CCV0211F-V2
 Misc : Sample
 ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 14:53:13 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.651	1947171	0.804 PPM
Spiked Amount 50.000		Recovery =	1.61%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	18686460	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	211274110	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	216320405	94.163 PPM
6) H Oil (02-09-22)	22.000	53493032	24.110 PPM
7) H Oil Acid Clean (05-2...	22.000	53493032	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	211568528	94.537 PPM
9) H Oil Combo (02-09-22)	22.000	40623082	16.719 PPM
10) H Oil Acid Clean Combo ...	22.000	40623082	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	215229295	94.603 PPM
12) H HAWAII 8015M Oil (02...	22.000	35766621	14.311 PPM
13) H Mineral Oil (02-09-22)	16.000	145354170	60.623 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	216320405	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	211568528	NoCal PPM
16) H Hydraulic Oil	16.000	170075460	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	141941360	61.181 PPM
18) H Oil Acid Clean MO Com...	22.000	36421633	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	36421633	14.501 PPM

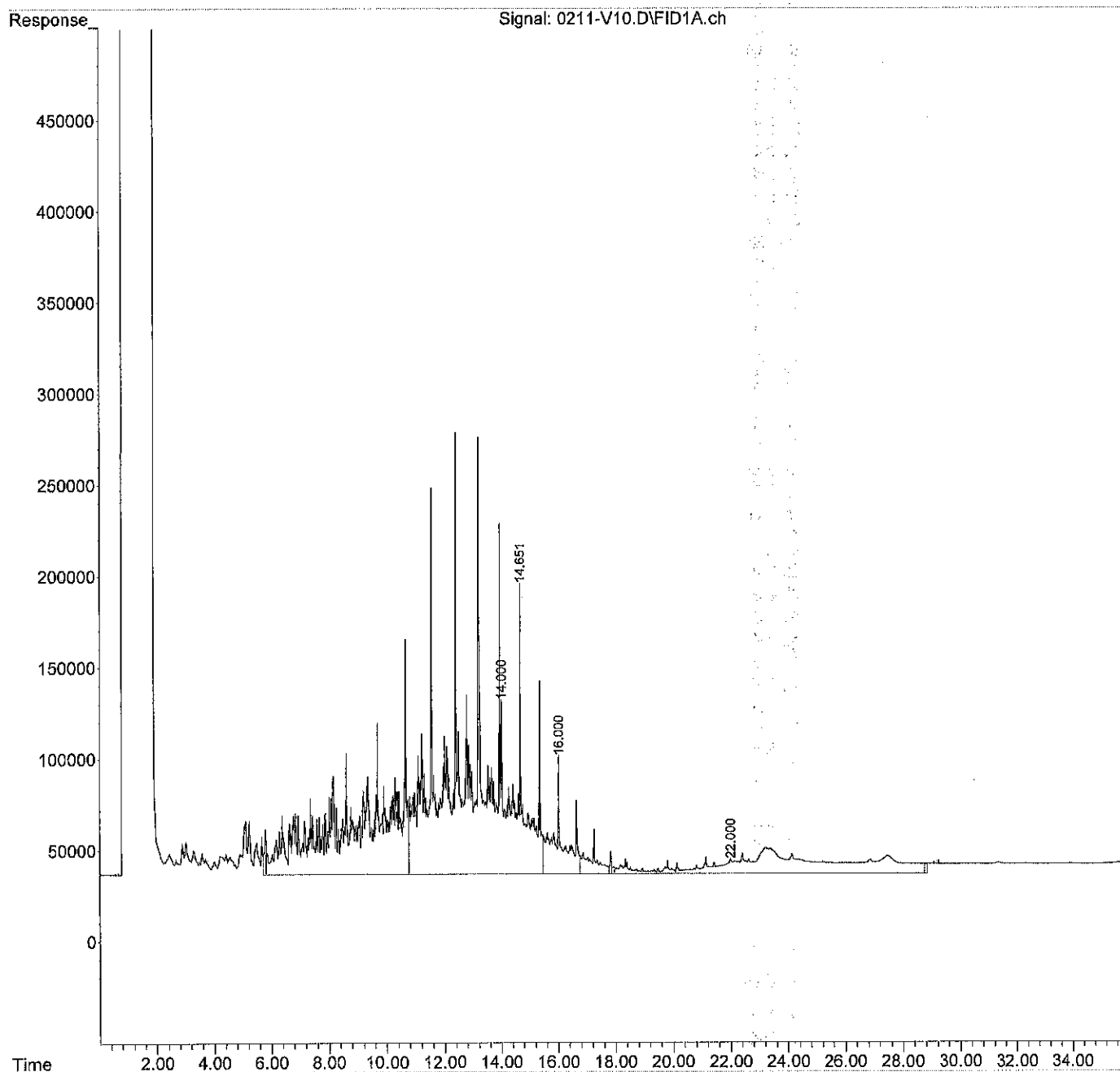
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V10.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 14:17
Operator : JP
Sample : CCV0211F-V2
Misc : Sample
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 14:53:13 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211\
 Data File : 0211-V21.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 21:40
 Operator : JP
 Sample : CCV0211F-V3
 Misc : Sample
 ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 22:16:54 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.652	1969946	0.812 PPM
Spiked Amount	50.000	Recovery =	1.62%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	18978512	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	216193510	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	223138095	97.073 PPM
6) H Oil (02-09-22)	22.000	47919811	20.877 PPM
7) H Oil Acid Clean (05-2...	22.000	47919811	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	217426409	97.109 PPM
9) H Oil Combo (02-09-22)	22.000	33969687	12.801 PPM
10) H Oil Acid Clean Combo ...	22.000	33969687	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	222001808	97.524 PPM
12) H HAWAII 8015M Oil (02...	22.000	28248303	9.724 PPM
13) H Mineral Oil (02-09-22)	16.000	151340305	63.035 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	223138095	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	217426409	NoCal PPM
16) H Hydraulic Oil	16.000	169977140	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	147257628	63.404 PPM
18) H Oil Acid Clean MO Com...	22.000	28917534	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	28917534	9.959 PPM

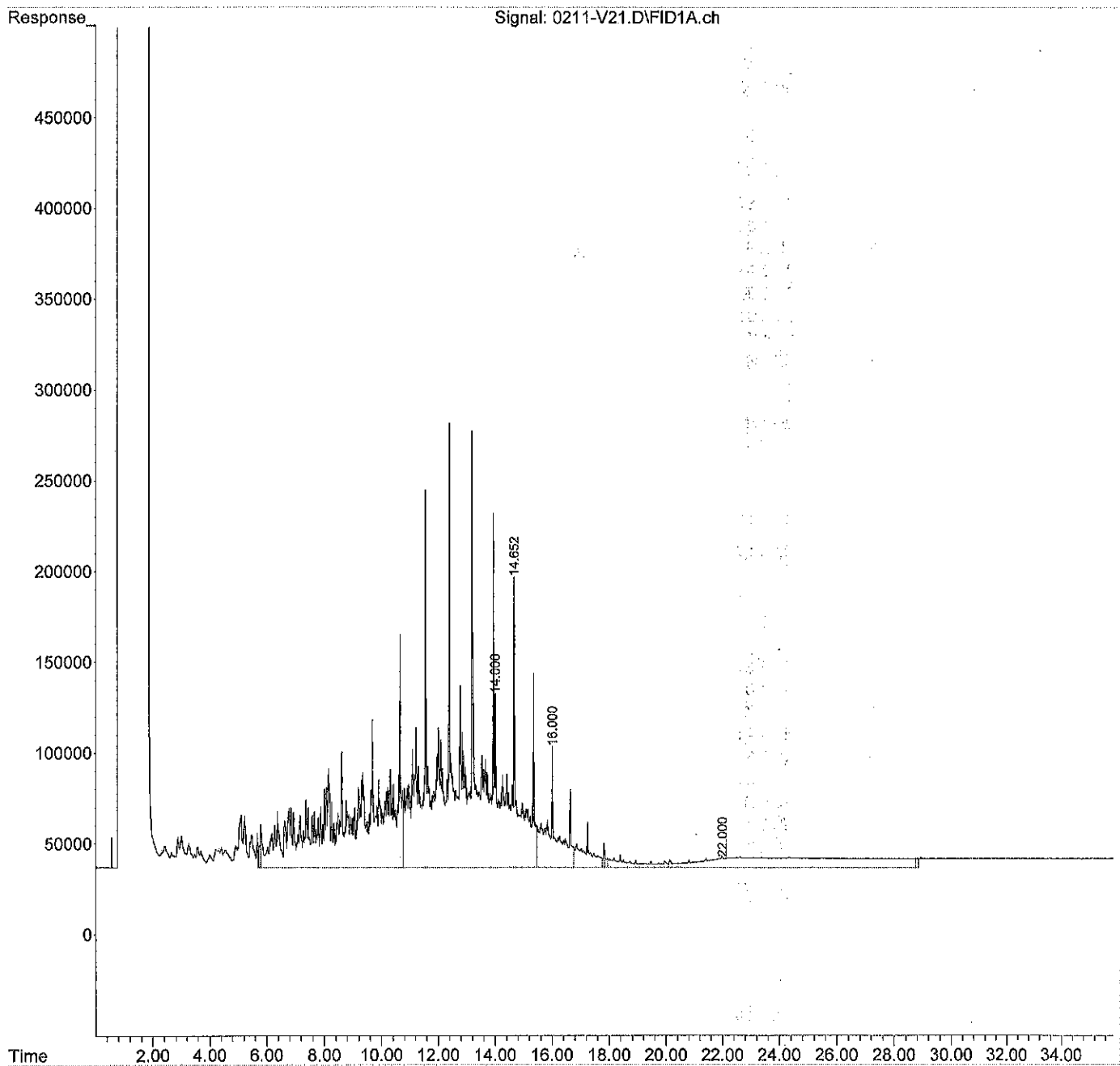
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211\
Data File : 0211-V21.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 21:40
Operator : JP
Sample : CCV0211F-V3
Misc : Sample
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 22:16:54 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V60.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 14:17
 Operator : JP
 Sample : CCV0211R-V2
 Misc : RearSamp
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 14:53:51 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount 50.000		Recovery =	0.00%	
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	34594133	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	209842492	47.265	PPM
5) H Diesel Fuel #2 (05-1...	14.000	208865886	94.735	PPM
6) H Oil (05-19-21)	22.000	39018972	9.511	PPM
7) H Oil Acid Clean (05-21...	22.000	39018972	10.627	PPM
8) H Diesel Fuel #2 Combo ...	14.000	204639379	95.708	PPM
9) H Oil Combo (05-19-21)	22.000	27963399	2.933	PPM
10) H Oil Acid Clean Combo ...	22.000	27963399	4.609	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	207991612	95.168	PPM
12) H HAWAII 8015M Oil (05-...	22.000	23692819	0.685	PPM
13) H Mineral Oil (05-19-21)	16.000	136679738	58.247	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	208865886	82.459	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	204639379	83.589	PPM
16) H Hydraulic Oil (03-19...	14.000	143854194	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	133527463	59.731	PPM
18) H Oil Acid Clean MO Com...	22.000	23201189	2.358	PPM
19) H Oil MO Combo (05-19-21)	22.000	23201189	0.309	PPM
20) H JP-4 (03-24-21)	8.000	155201949	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	135399996	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	180344278	NoCal	PPM

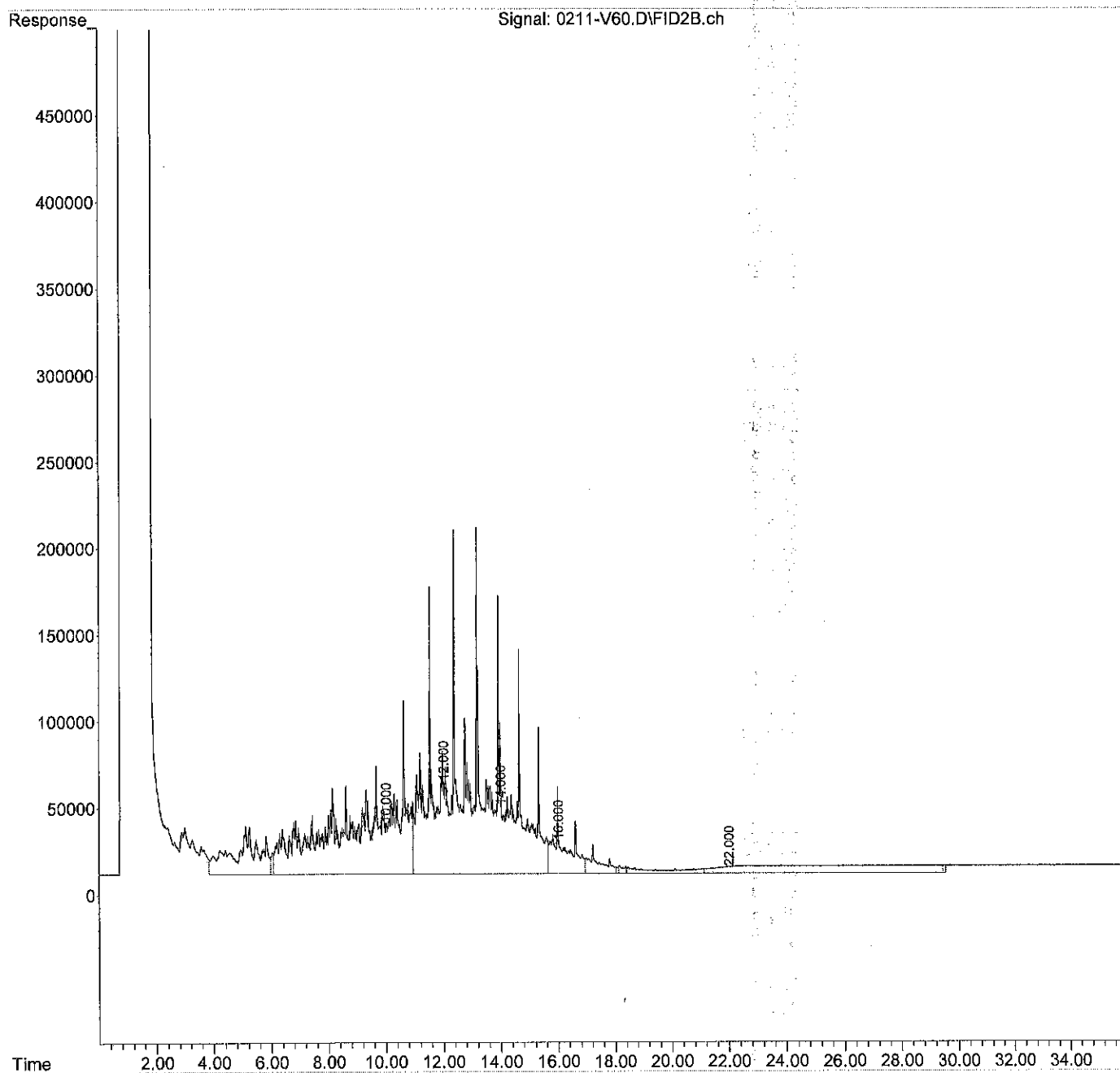
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V60.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 14:17
Operator : JP
Sample : CCV0211R-V2
Misc : RearSamp
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 14:53:51 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V71.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 21:40
 Operator : JP
 Sample : CCV0211R-V3
 Misc : RearSamp
 ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 22:17:31 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount 50.000		Recovery =	0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	35385680	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	208020955	46.820 PPM
5) H Diesel Fuel #2 (05-1...	14.000	206302302	93.518 PPM
6) H Oil (05-19-21)	22.000	36523546	7.921 PPM
7) H Oil Acid Clean (05-21...	22.000	36523546	9.142 PPM
8) H Diesel Fuel #2 Combo ...	14.000	202289480	94.561 PPM
9) H Oil Combo (05-19-21)	22.000	25764114	1.511 PPM
10) H Oil Acid Clean Combo ...	22.000	25764114	3.281 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	205429731	93.942 PPM
12) H HAWAII 8015M Oil (05...	22.000	21708756	N.D. PPM
13) H Mineral Oil (05-19-21)	16.000	134115437	57.124 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	206302302	81.402 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	202289480	82.590 PPM
16) H Hydraulic Oil (03-19...	14.000	140927400	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	131429857	58.790 PPM
18) H Oil Acid Clean MO Com...	22.000	21279047	1.145 PPM
19) H Oil MO Combo (05-19-21)	22.000	21279047	N.D. PPM
20) H JP-4 (03-24-21)	8.000	155254192	NoCal PPM
21) H JP-5 (03-25-21)	8.000	134590486	NoCal PPM
22) H JP-8 (03-26-21)	8.000	178995011	NoCal PPM

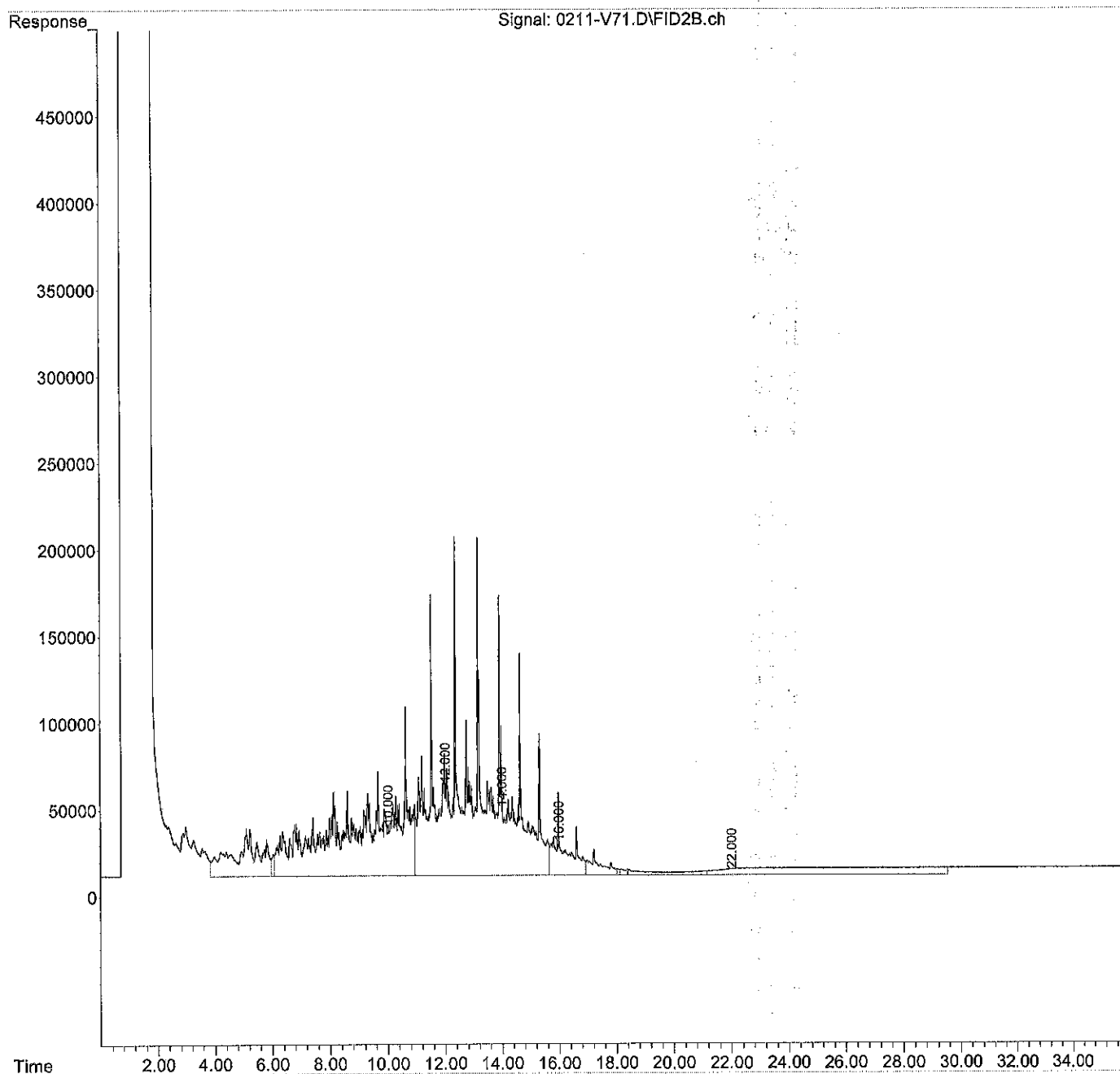
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V71.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 21:40
Operator : JP
Sample : CCV0211R-V3
Misc : RearSamp
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 22:17:31 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : C:\msdchem\2\data\V220211.SEC\
 Data File : 0211-V82.D
 Signal(s) : FID2B.ch
 Acq On : 12 Feb 2022 4:59
 Operator : JP
 Sample : CCV0211R-V4
 Misc : RearSamp
 ALS Vial : 82 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 12 05:36:10 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	35587636	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	206904345	46.548	PPM
5) H Diesel Fuel #2 (05-1...	14.000	204890864	92.848	PPM
6) H Oil (05-19-21)	22.000	35537675	7.293	PPM
7) H Oil Acid Clean (05-21...	22.000	35537675	8.555	PPM
8) H Diesel Fuel #2 Combo ...	14.000	200951894	93.908	PPM
9) H Oil Combo (05-19-21)	22.000	24921838	0.966	PPM
10) H Oil Acid Clean Combo ...	22.000	24921838	2.772	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	204015133	93.265	PPM
12) H HAWAII 8015M Oil (05-...	22.000	20948472	N.D.	PPM
13) H Mineral Oil (05-19-21)	16.000	132984912	56.630	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	204890864	80.819	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	200951894	82.022	PPM
16) H Hydraulic Oil (03-19...	14.000	139673979	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	130347962	58.305	PPM
18) H Oil Acid Clean MO Com...	22.000	20538829	0.678	PPM
19) H Oil MO Combo (05-19-21)	22.000	20538829	N.D.	PPM
20) H JP-4 (03-24-21)	8.000	154924922	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	134109869	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	178183879	NoCal	PPM

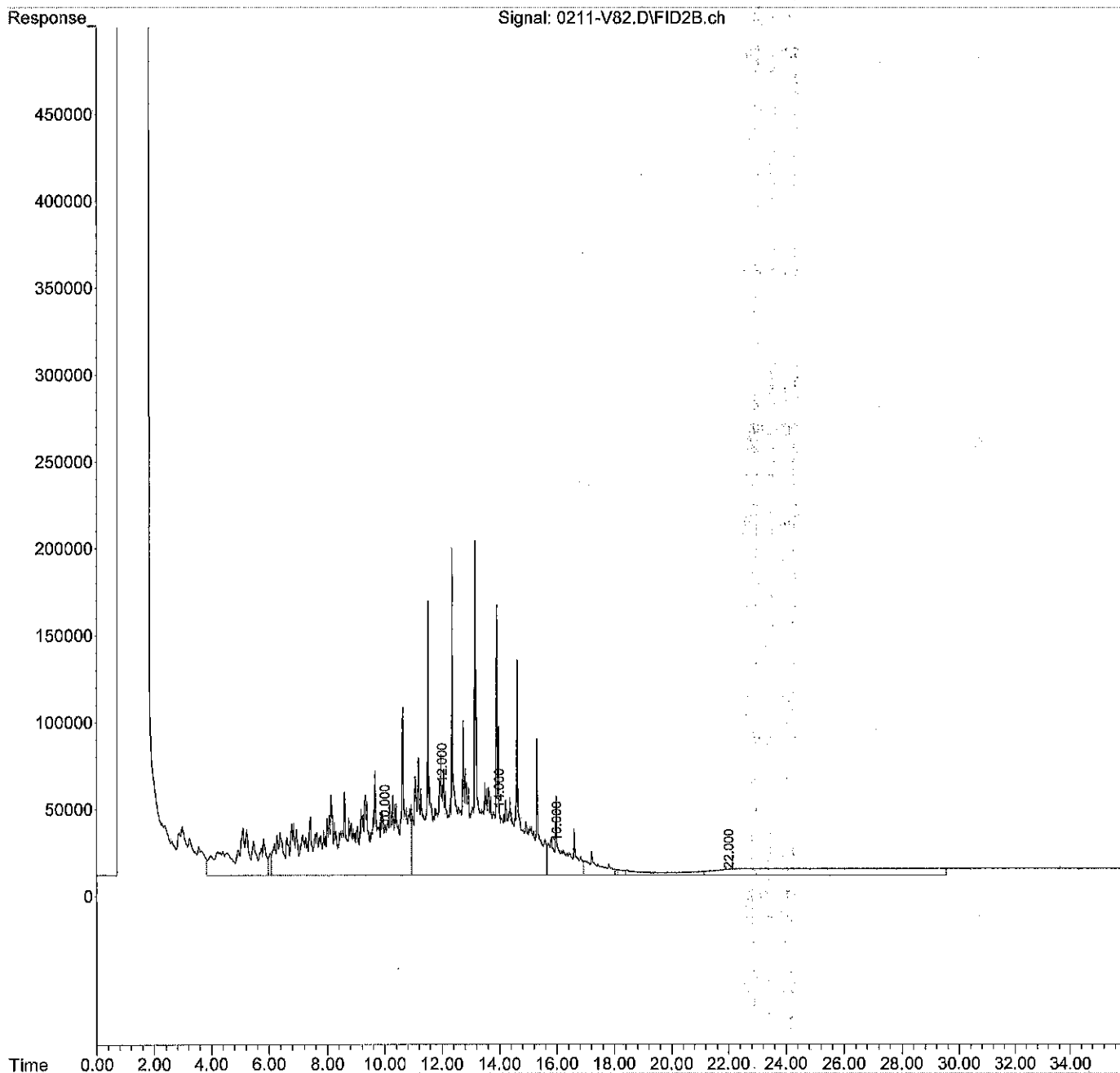
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : C:\msdchem\2\data\V220211.SEC\
Data File : 0211-V82.D
Signal(s) : FID2B.ch
Acq On : 12 Feb 2022 4:59
Operator : JP
Sample : CCV0211R-V4
Misc : RearSamp
ALS Vial : 82 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 12 05:36:10 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Volatiles Organics
EPA 8260D Data

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207008.d
 Acq On : 7 Feb 2022 1:32 pm
 Operator :
 Sample : 02-068-01g
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

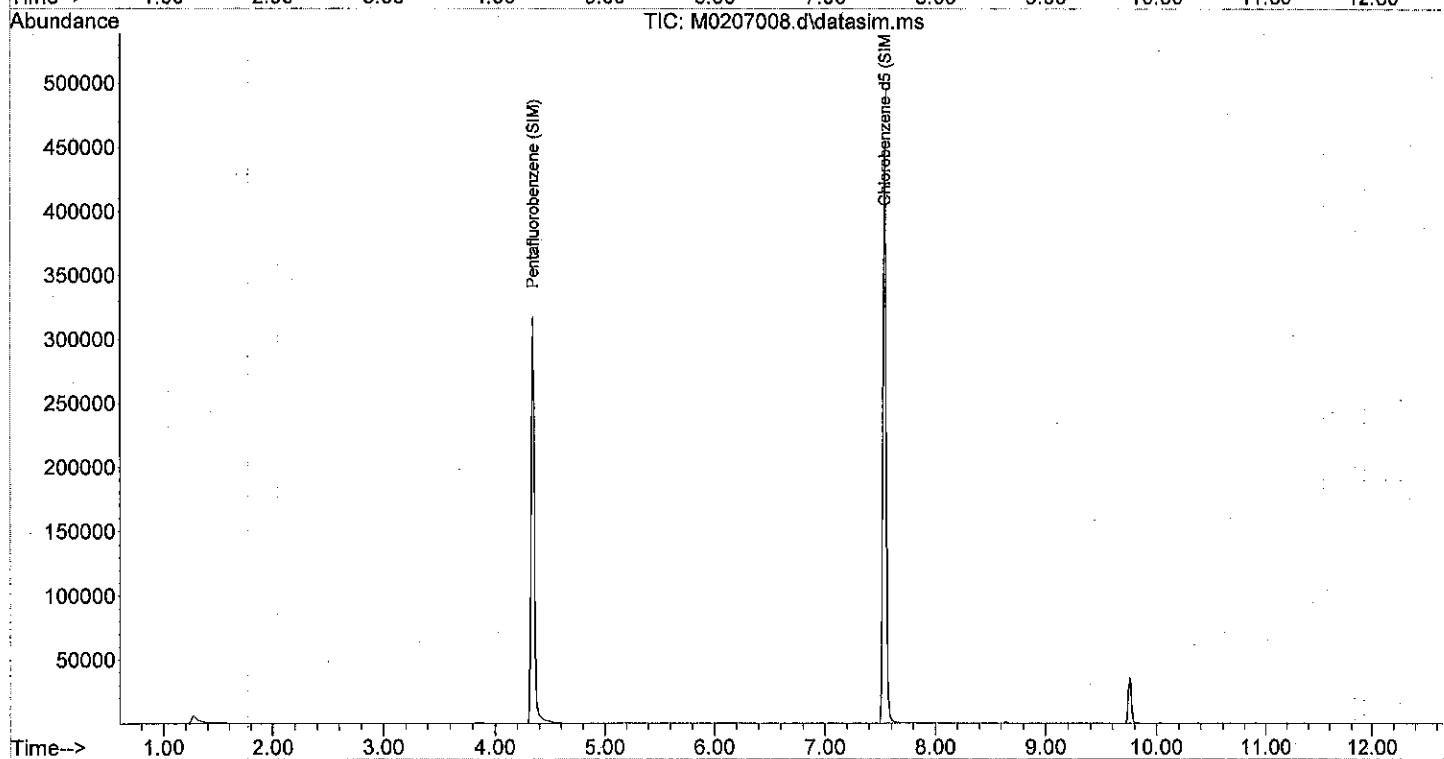
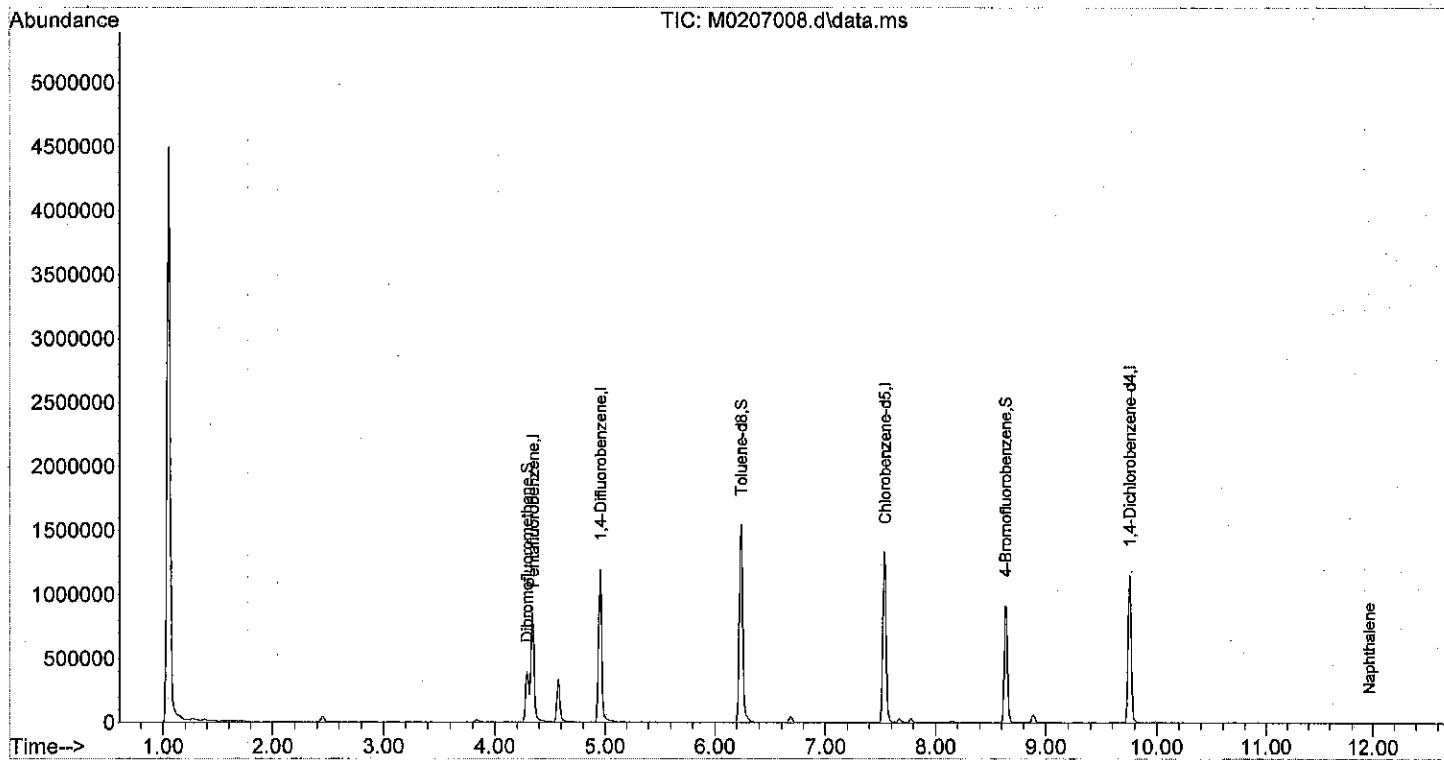
Quant Time: Feb 07 13:51:30 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

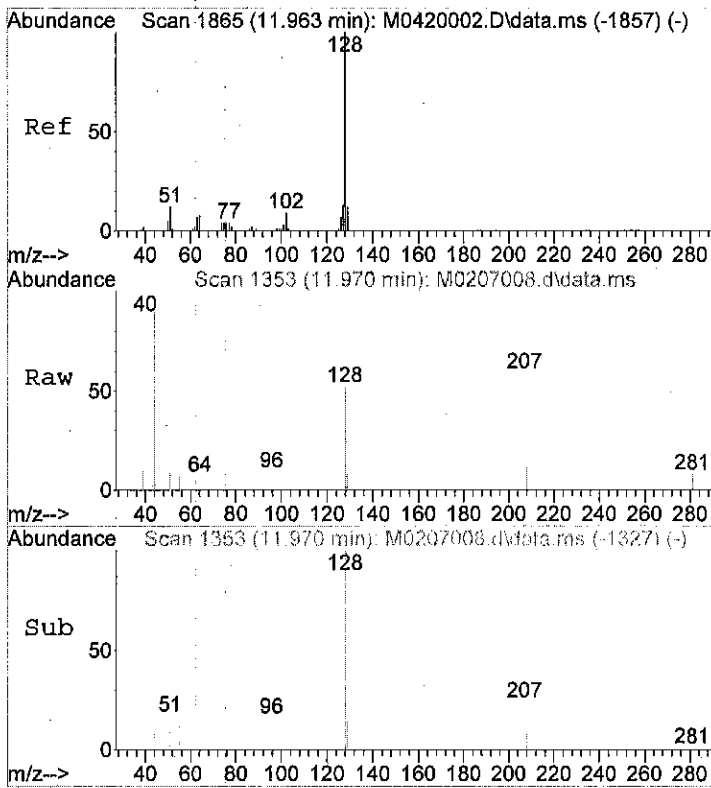
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	629024	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	650477	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1049872	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	879929	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	891715	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	364553	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	263604	10.16	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.60%
41) Toluene-d8	6.237	98	1150032	9.91	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.10%
59) 4-Bromofluorobenzene	8.636	95	379727	10.08	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	100.80%
Target Compounds						
82) Naphthalene	11.970	128	1918	0.66	ppb	Qvalue # 72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
Data File : M0207008.d
Acq On : 7 Feb 2022 1:32 pm
Operator :
Sample : 02-068-01g
Misc :
ALS Vial : 8 Sample Multiplier: 1

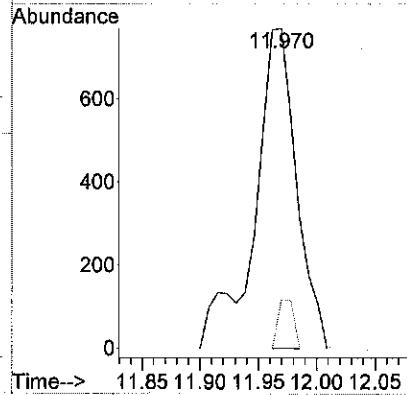
Quant Time: Feb 07 13:51:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
Quant Title :
QLast Update : Fri Feb 04 16:59:34 2022
Response via : Initial Calibration





#82
 Naphthalene
 Concen: 0.66 ppb
 RT: 11.970 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: M0207008.d
 Acq: 7 Feb 2022 1:32 pm

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	1918		
129	0.0	8.5	12.7#	



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207009.d
 Acq On : 7 Feb 2022 1:59 pm
 Operator :
 Sample : 02-068-02g
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

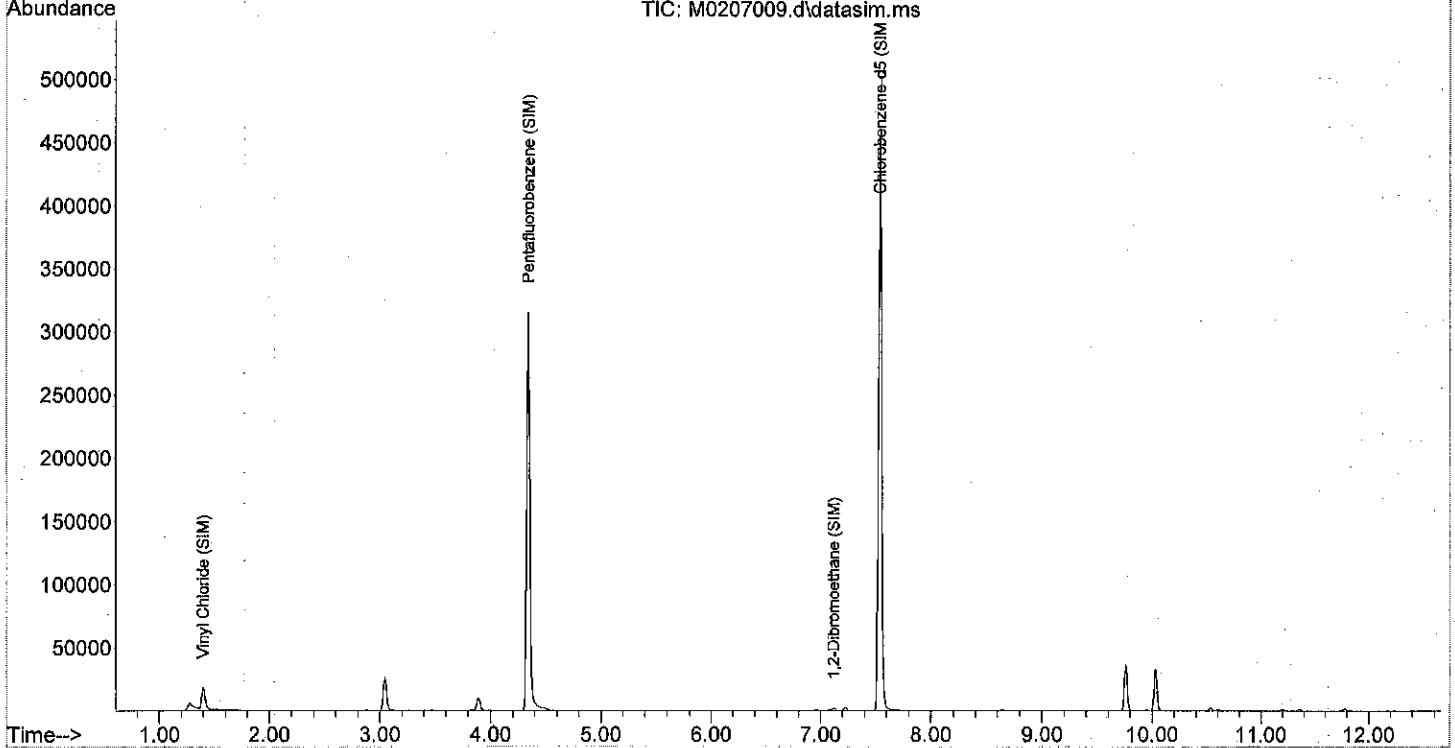
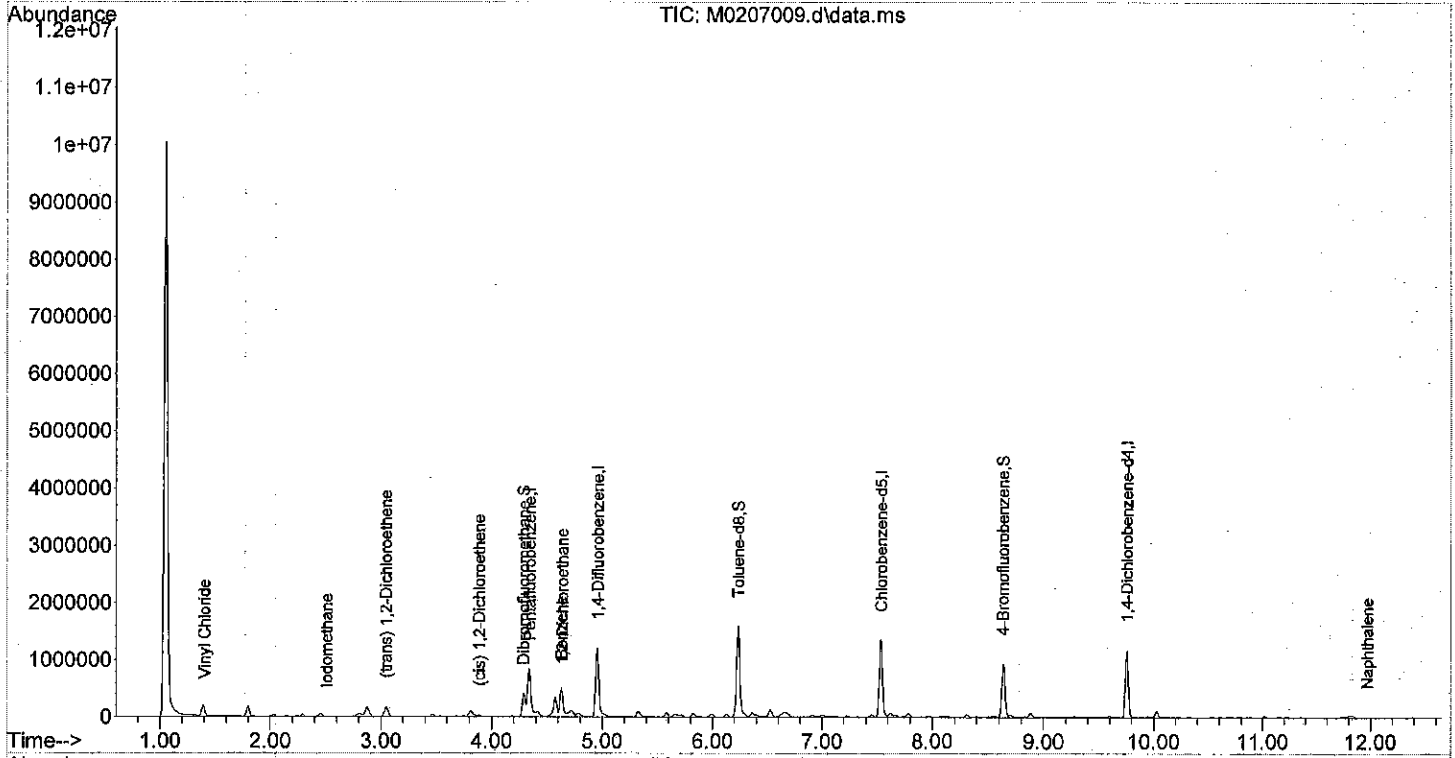
Quant Time: Feb 07 14:26:24 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

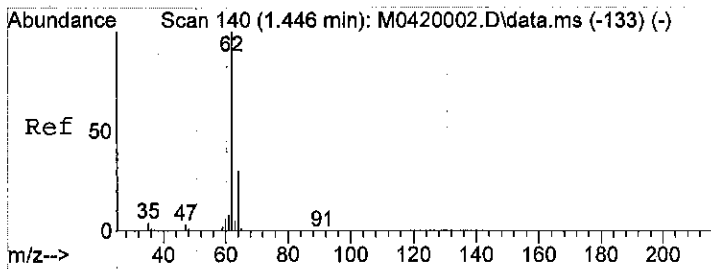
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	623850	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	648944	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1055374	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	883442	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	905631	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	369597	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	266287	10.35	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	103.50%
41) Toluene-d8	6.237	98	1163414	9.97	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.70%
59) 4-Bromofluorobenzene	8.636	95	384542	10.17	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	101.70%
Target Compounds						
4) Vinyl Chloride	1.401	62	26064	0.78	ppb	# 77
10) Iodomethane	2.508	142	324	4.58	ppb	# 30
14) (trans) 1,2-Dichloroet...	3.048	61	42484	0.66	ppb	# 97
20) (cis) 1,2-Dichloroethene	3.890	61	20103	0.26	ppb	# 94
28) Benzene	4.630	78	418523	2.67	ppb	# 100
29) 1,2-Dichloroethane	4.638	62	13404	0.32	ppb	# 95
31] Vinyl Chloride (SIM)	1.398	62	27232	783.71	ppt	# 66
61] 1,2-Dibromoethane (SIM)	7.119	107	261	12.40	ppt	# 1
82) Naphthalene	11.970	128	2433	0.67	ppb	# 65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

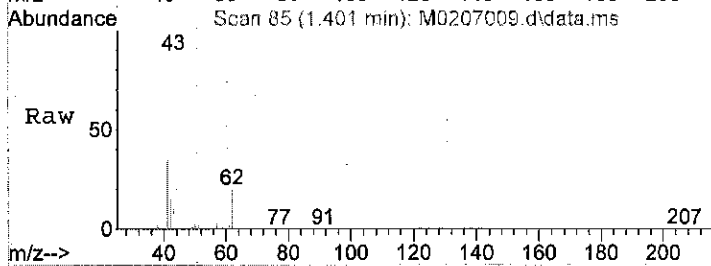
Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207009.d
 Acq On : 7 Feb 2022 1:59 pm
 Operator :
 Sample : 02-068-02g
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 14:26:24 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

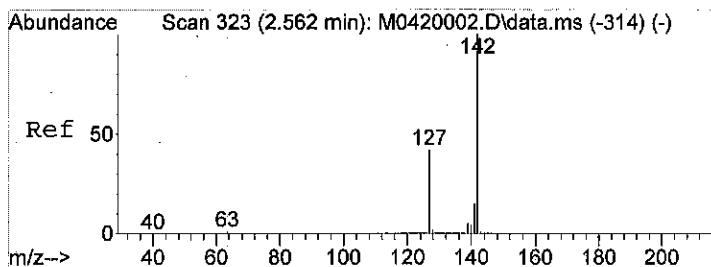
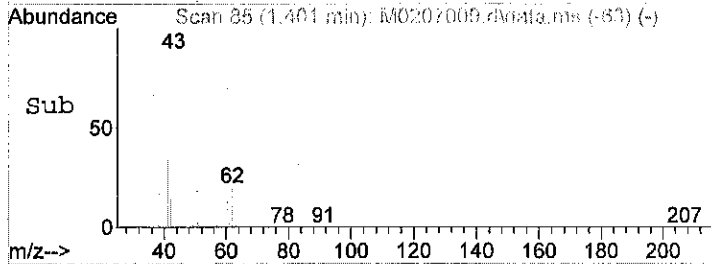
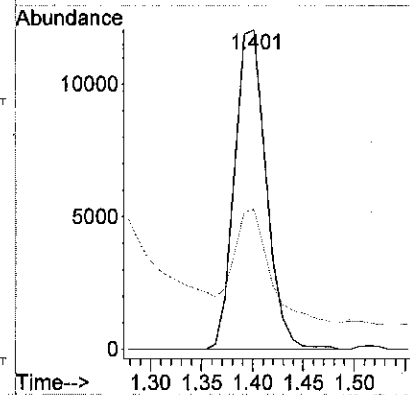




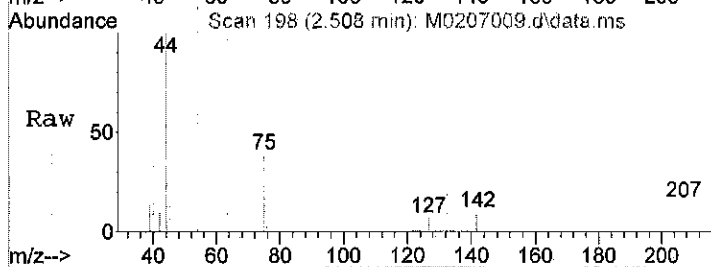
#4
 Vinyl Chloride
 Concen: 0.78 ppb
 RT: 1.401 min Scan# 85
 Delta R.T. 0.009 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm



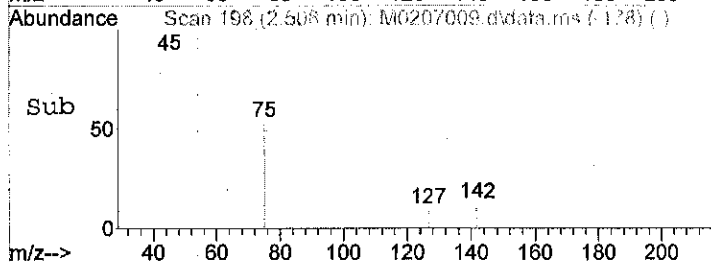
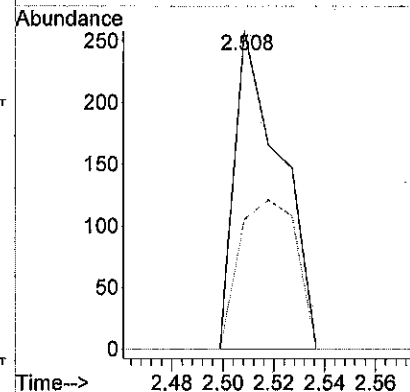
Tgt Ion: 62 Resp: 26064
 Ion Ratio Lower Upper
 62 100
 64 46.5 26.6 39.8#

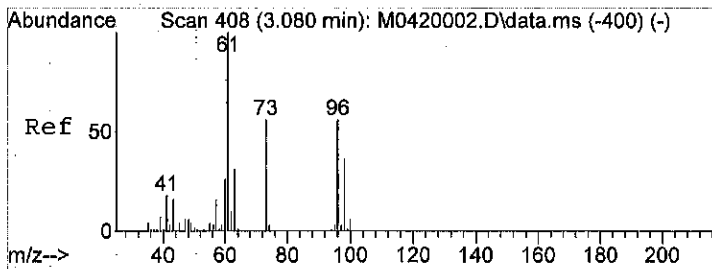


#10
 Iodomethane
 Concen: 4.58 ppb
 RT: 2.508 min Scan# 198
 Delta R.T. -0.010 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm



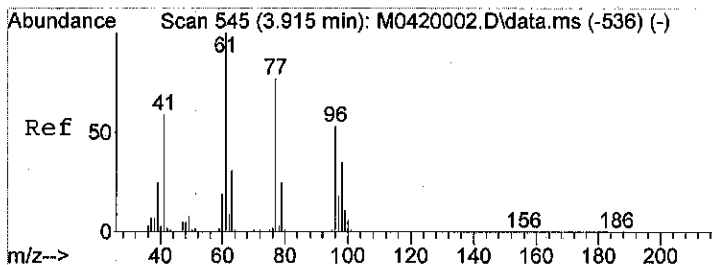
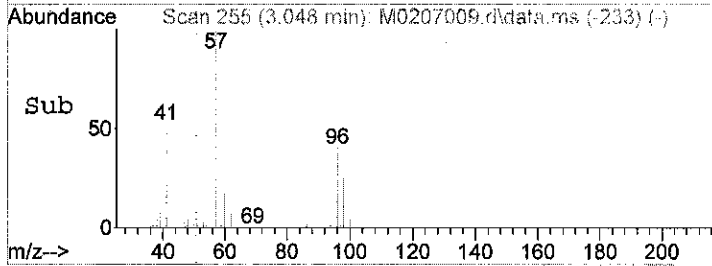
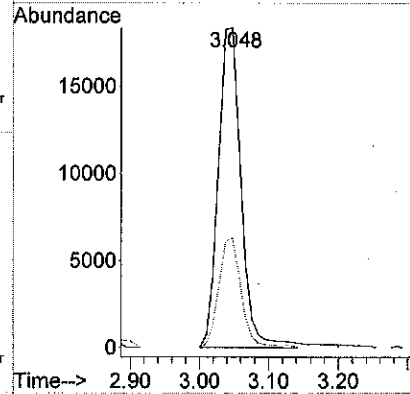
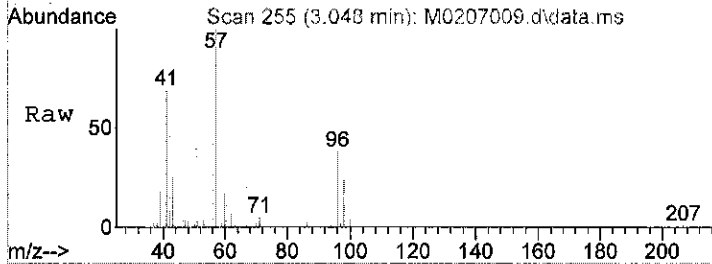
Tgt Ion: 142 Resp: 324
 Ion Ratio Lower Upper
 142 100
 127 0.0 36.9 55.3#





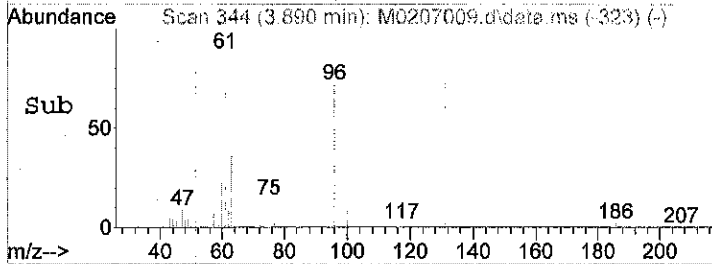
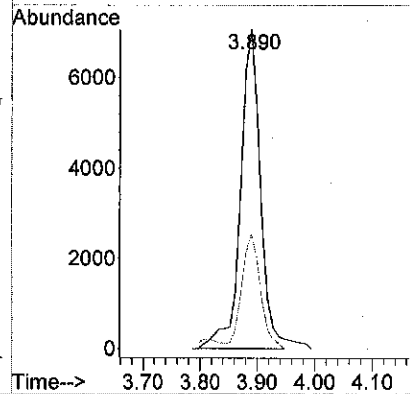
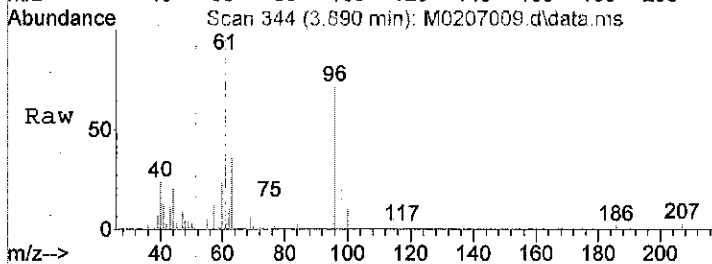
#14
 (trans) 1,2-Dichloroethene
 Concen: 0.66 ppb
 RT: 3.048 min Scan# 255
 Delta R.T. 0.010 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm

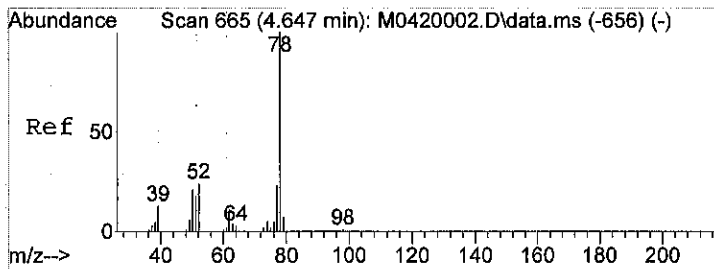
Tgt Ion: 61 Resp: 42484
 Ion Ratio Lower Upper
 61 100
 63 33.6 25.4 38.0



#20
 (cis) 1,2-Dichloroethene
 Concen: 0.26 ppb
 RT: 3.890 min Scan# 344
 Delta R.T. -0.000 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm

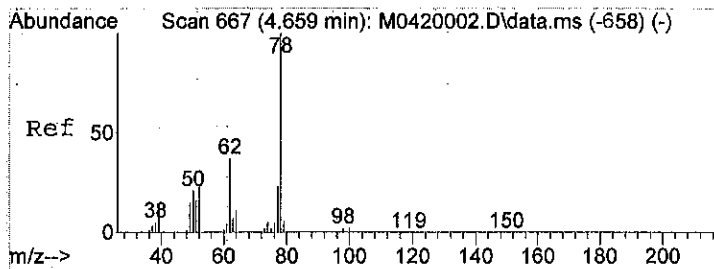
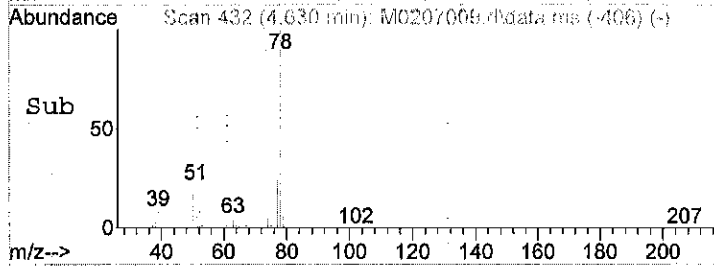
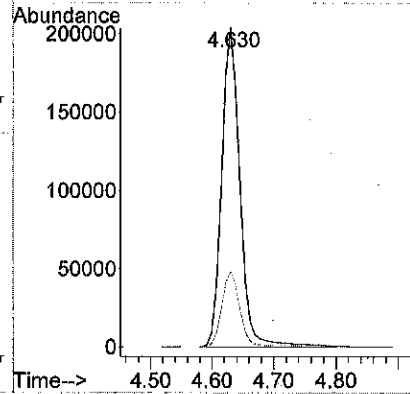
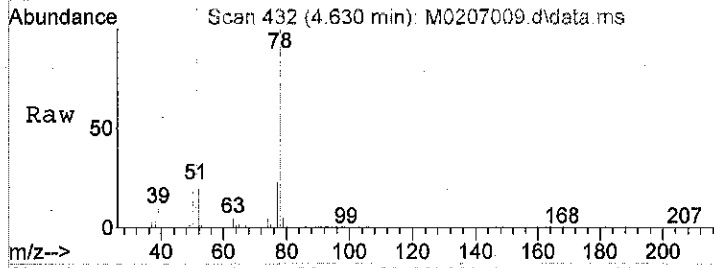
Tgt Ion: 61 Resp: 20103
 Ion Ratio Lower Upper
 61 100
 63 28.8 25.9 38.9





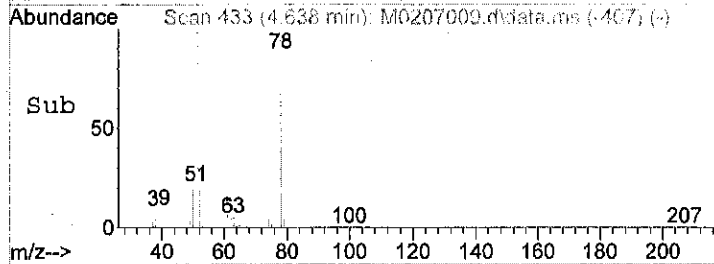
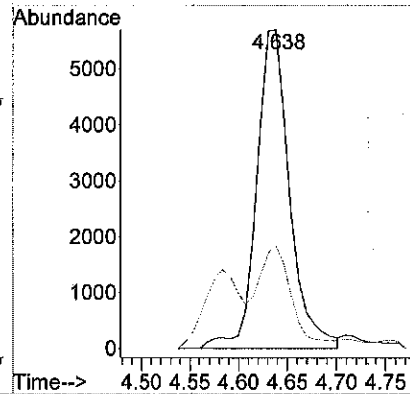
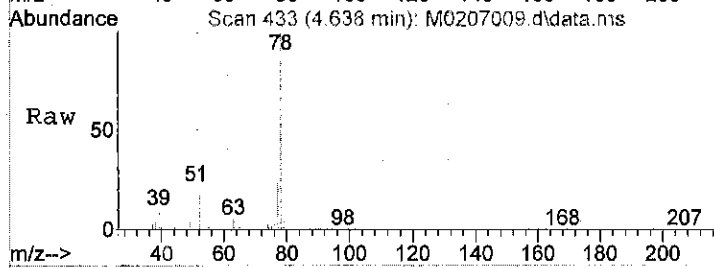
#28
Benzene
Concen: 2.67 ppb
RT: 4.630 min Scan# 432
Delta R.T. 0.000 min
Lab File: M0207009.d
Acq: 7 Feb 2022 1:59 pm

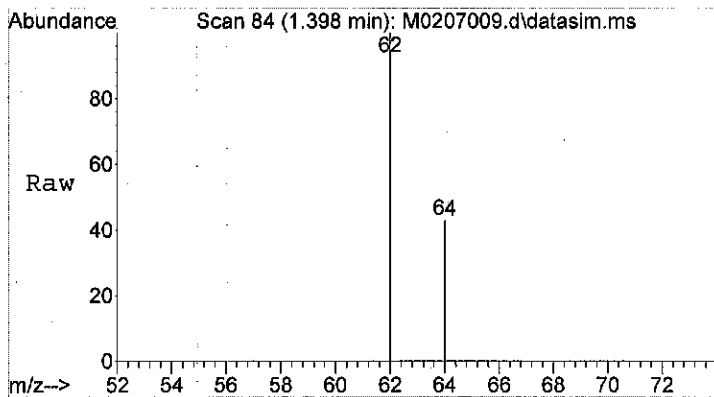
Tgt Ion: 78 Resp: 418523
Ion Ratio Lower Upper
78 100
77 23.1 18.6 28.0



#29
1,2-Dichloroethane
Concen: 0.32 ppb
RT: 4.638 min Scan# 433
Delta R.T. 0.000 min
Lab File: M0207009.d
Acq: 7 Feb 2022 1:59 pm

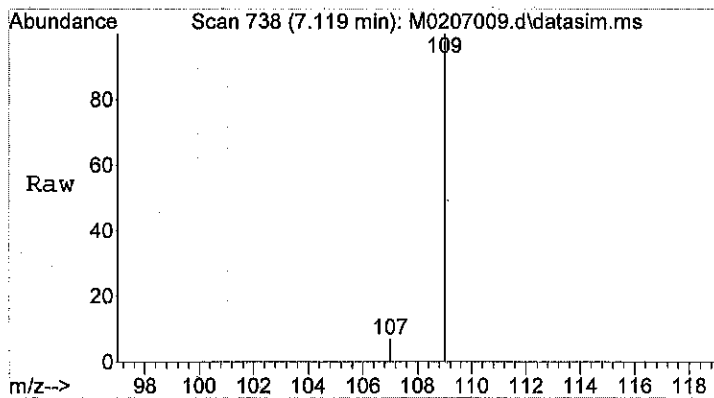
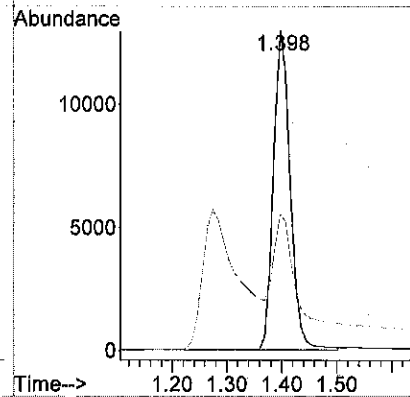
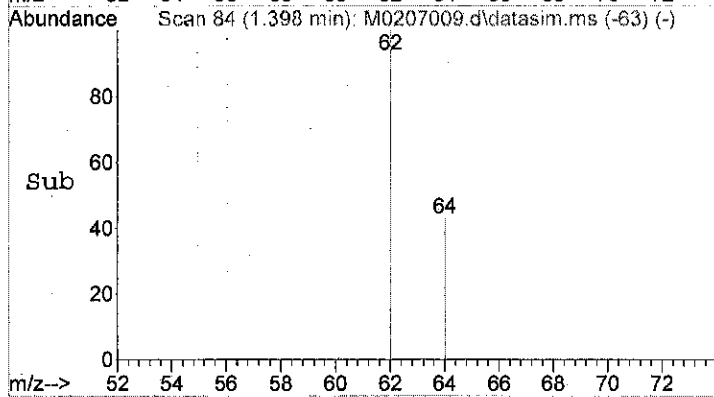
Tgt Ion: 62 Resp: 13404
Ion Ratio Lower Upper
62 100
64 29.1 25.5 38.3





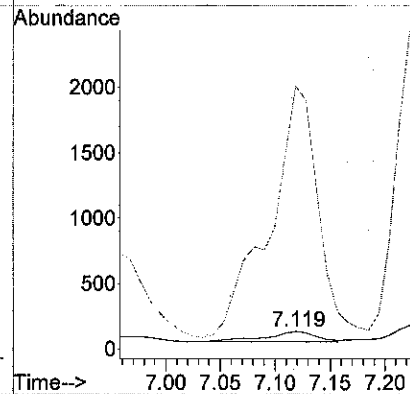
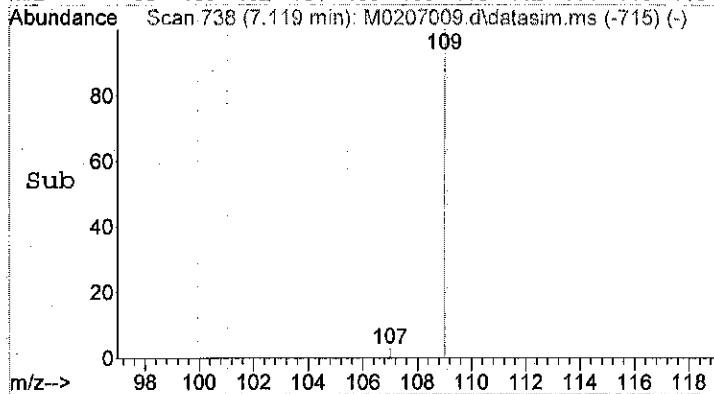
#31
 Vinyl Chloride (SIM)
 Concen: 783.71 ppt
 RT: 1.398 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm

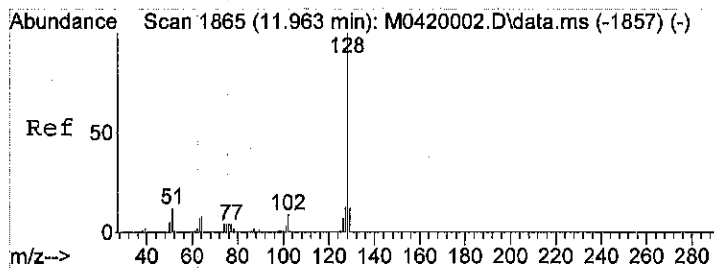
Tgt Ion: 62 Resp: 27232
 Ion Ratio Lower Upper
 62 100
 64 53.3 27.0 40.4#



#61
 1,2-Dibromoethane (SIM)
 Concen: 12.40 ppt
 RT: 7.119 min Scan# 738
 Delta R.T. 0.019 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm

Tgt Ion: 107 Resp: 261
 Ion Ratio Lower Upper
 107 100
 109 2273.9 75.6 113.4#

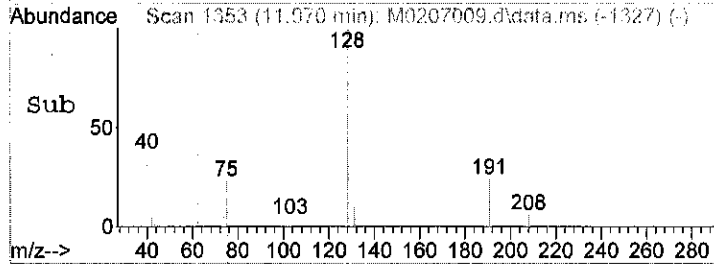
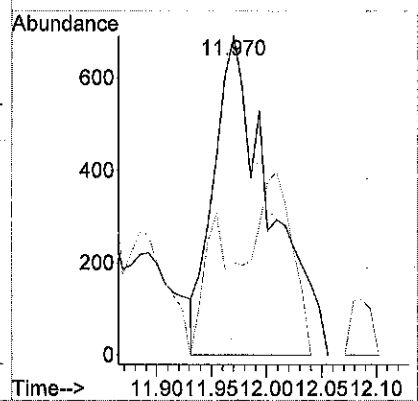
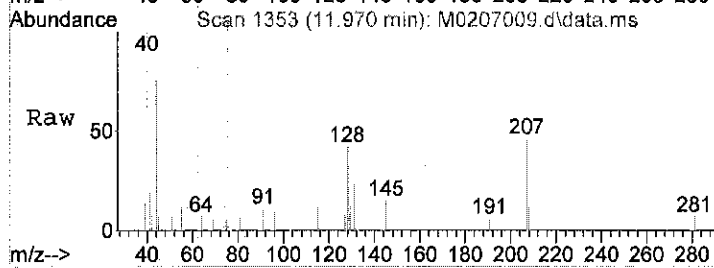




#82
 Naphthalene
 Concen: 0.67 ppb
 RT: 11.970 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: M0207009.d
 Acq: 7 Feb 2022 1:59 pm

Tgt Ion: 128 Resp: 2433

Ion	Ratio	Lower	Upper
128	100		
129	23.8	8.5	12.7#



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207010.d
 Acq On : 7 Feb 2022 2:26 pm
 Operator :
 Sample : 02-068-03g
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 07 14:42:00 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

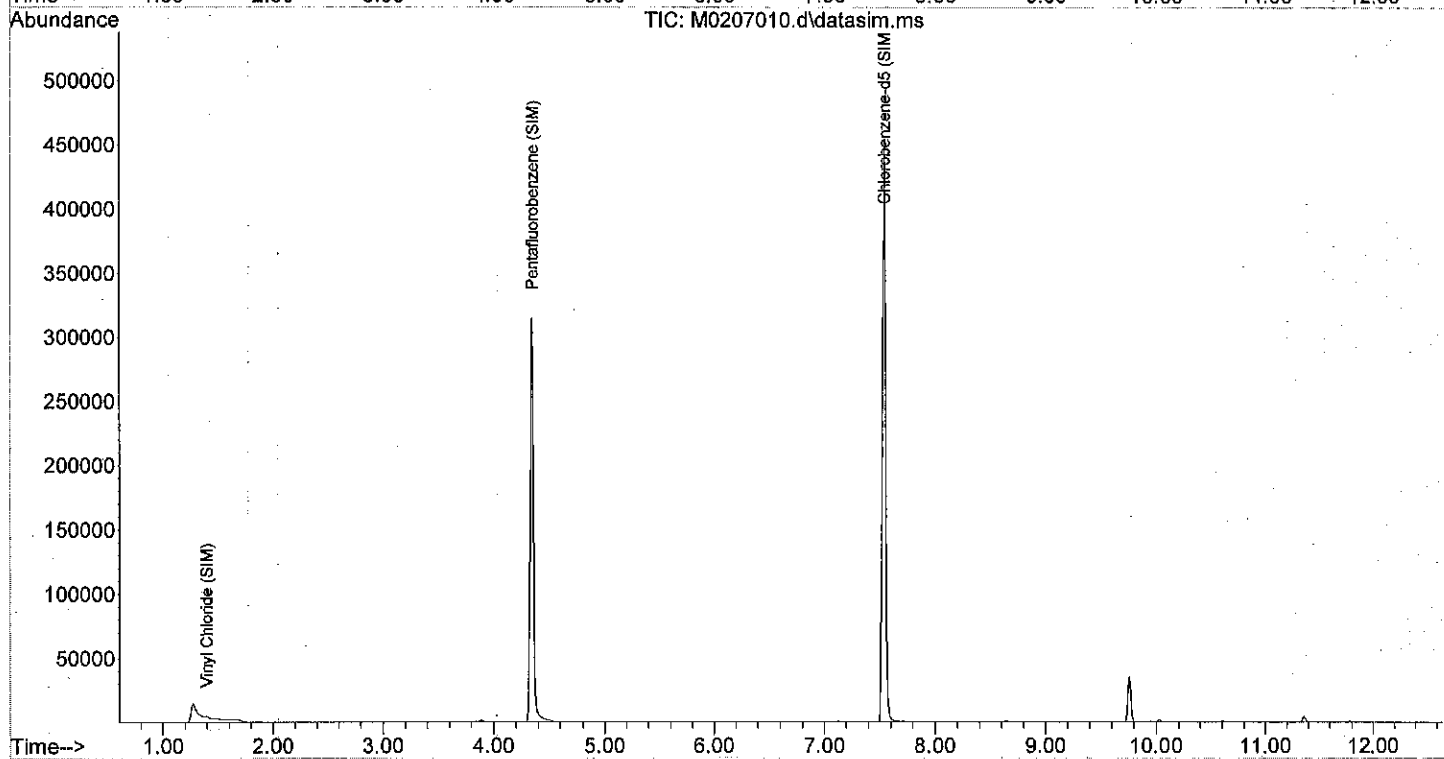
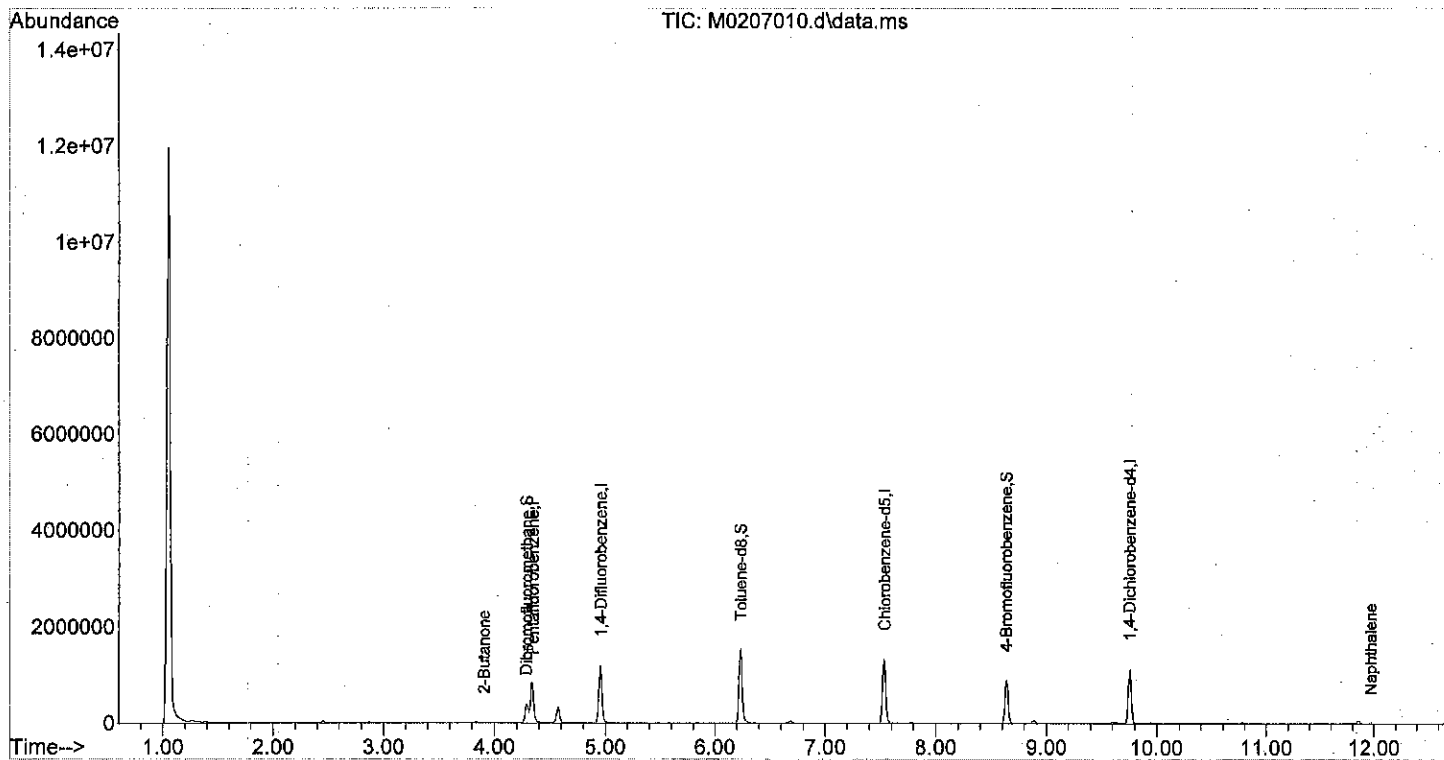
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

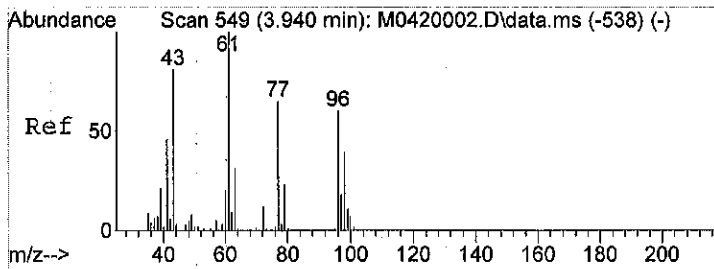
Internal Standards						
1) Pentafluorobenzene	4.342	168	621150	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	642357	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1043852	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	875937	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	891217	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	354245	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	258842	10.10	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.00%
41) Toluene-d8	6.237	98	1140258	9.88	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.80%
59) 4-Bromofluorobenzene	8.636	95	371036	9.89	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	98.90%
Target Compounds						
21) 2-Butanone	3.909	43	7752	1.05	ppb	# 74
31] Vinyl Chloride (SIM)	1.398	62	1648	47.91	ppt	# 41
82) Naphthalene	11.970	128	1554	0.65	ppb	# 72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207010.d
 Acq On : 7 Feb 2022 2:26 pm
 Operator :
 Sample : 02-068-03g
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

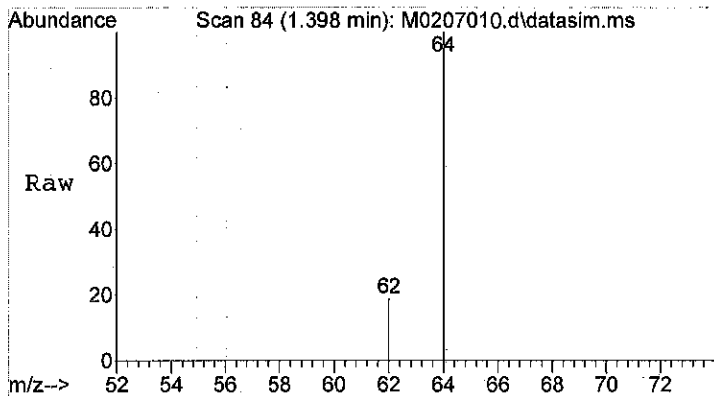
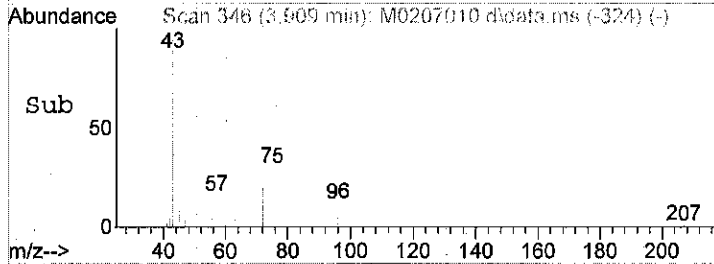
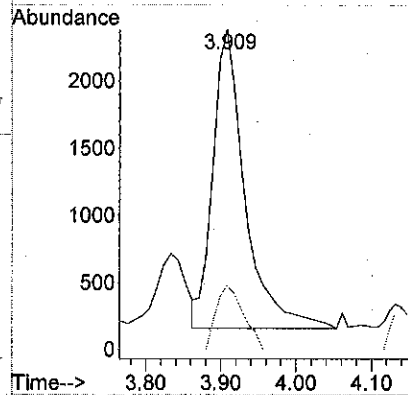
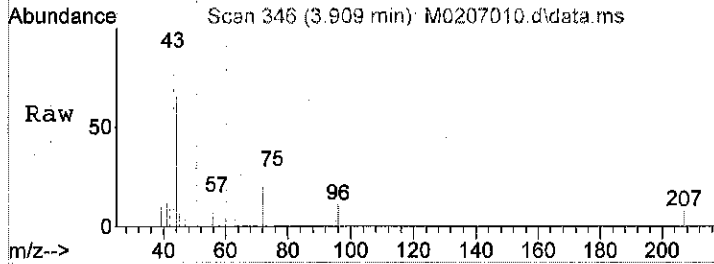
Quant Time: Feb 07 14:42:00 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration





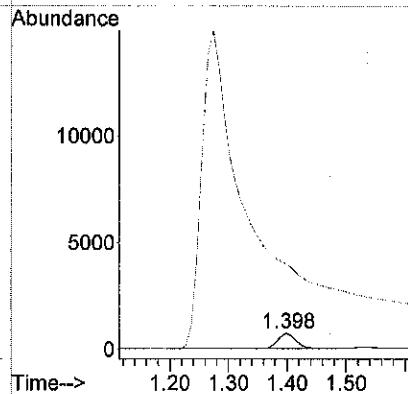
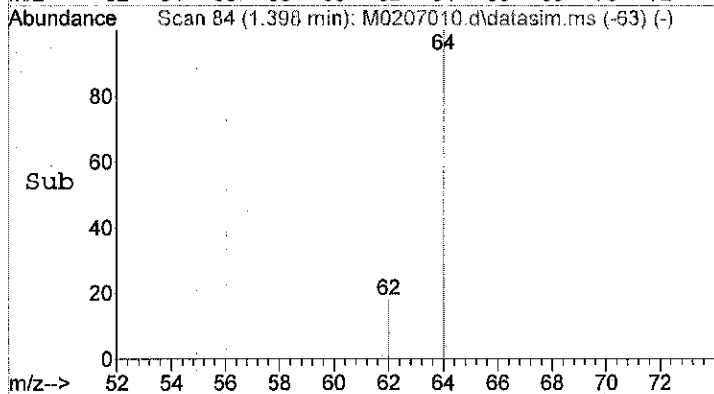
#21
 2-Butanone
 Concen: 1.05 ppb
 RT: 3.909 min Scan# 346
 Delta R.T. 0.010 min
 Lab File: M0207010.d
 Acq: 7 Feb 2022 2:26 pm

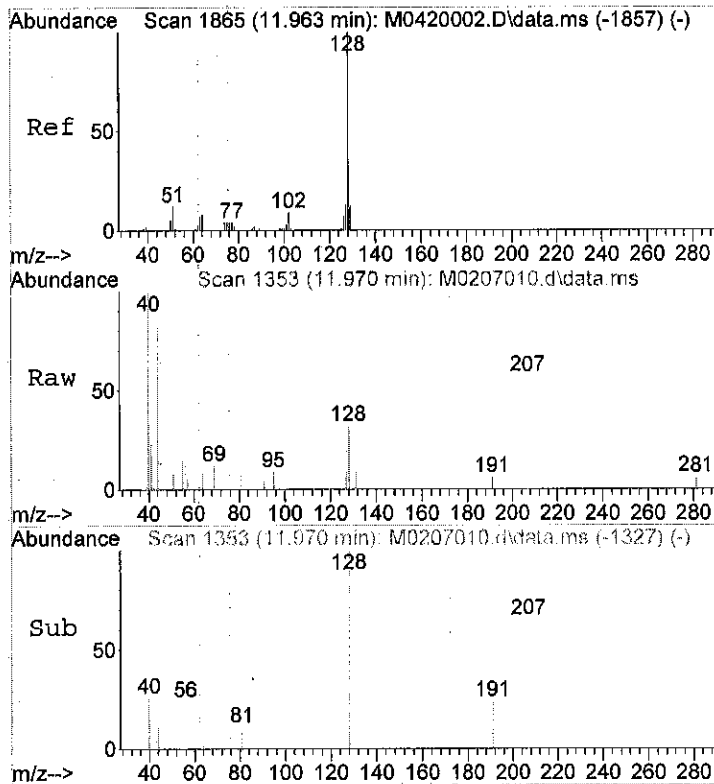
Tgt Ion: 43 Resp: 7752
 Ion Ratio Lower Upper
 43 100
 72 15.6 23.7 35.5#



#31
 Vinyl Chloride (SIM)
 Concen: 47.91 ppt
 RT: 1.398 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: M0207010.d
 Acq: 7 Feb 2022 2:26 pm

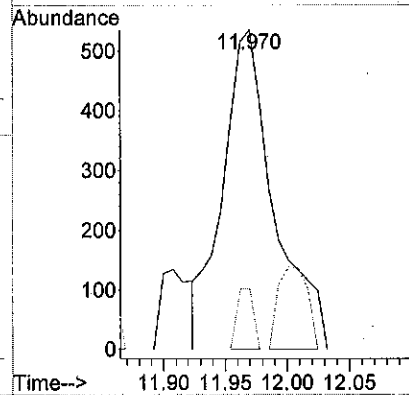
Tgt Ion: 62 Resp: 1648
 Ion Ratio Lower Upper
 62 100
 64 0.0 27.0 40.4#





#82
 Naphthalene
 Concen: 0.65 ppb
 RT: 11.970 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: M0207010.d
 Acq: 7 Feb 2022 2:26 pm

Tgt Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.5	12.7#



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207011.d
 Acq On : 7 Feb 2022 2:52 pm
 Operator :
 Sample : 02-068-04g
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

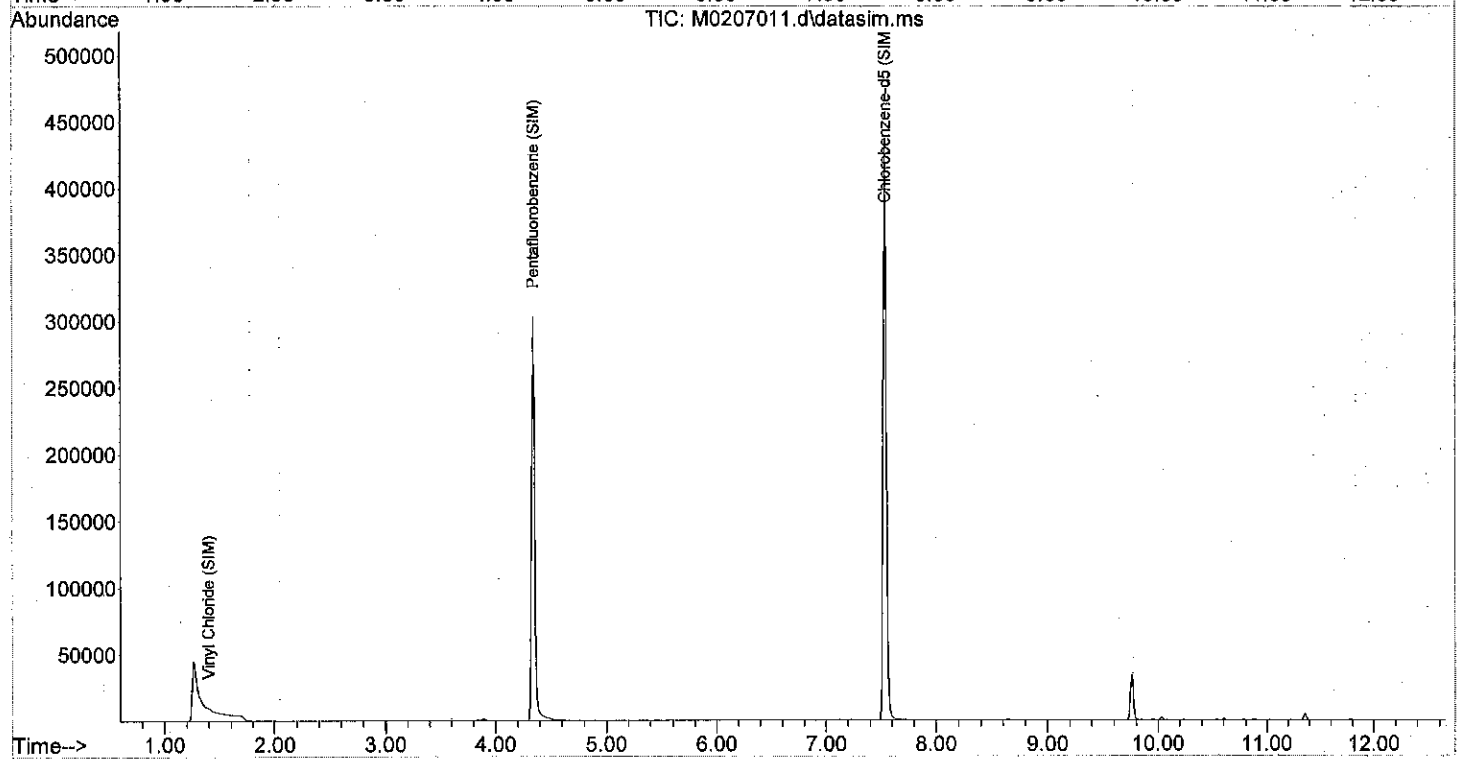
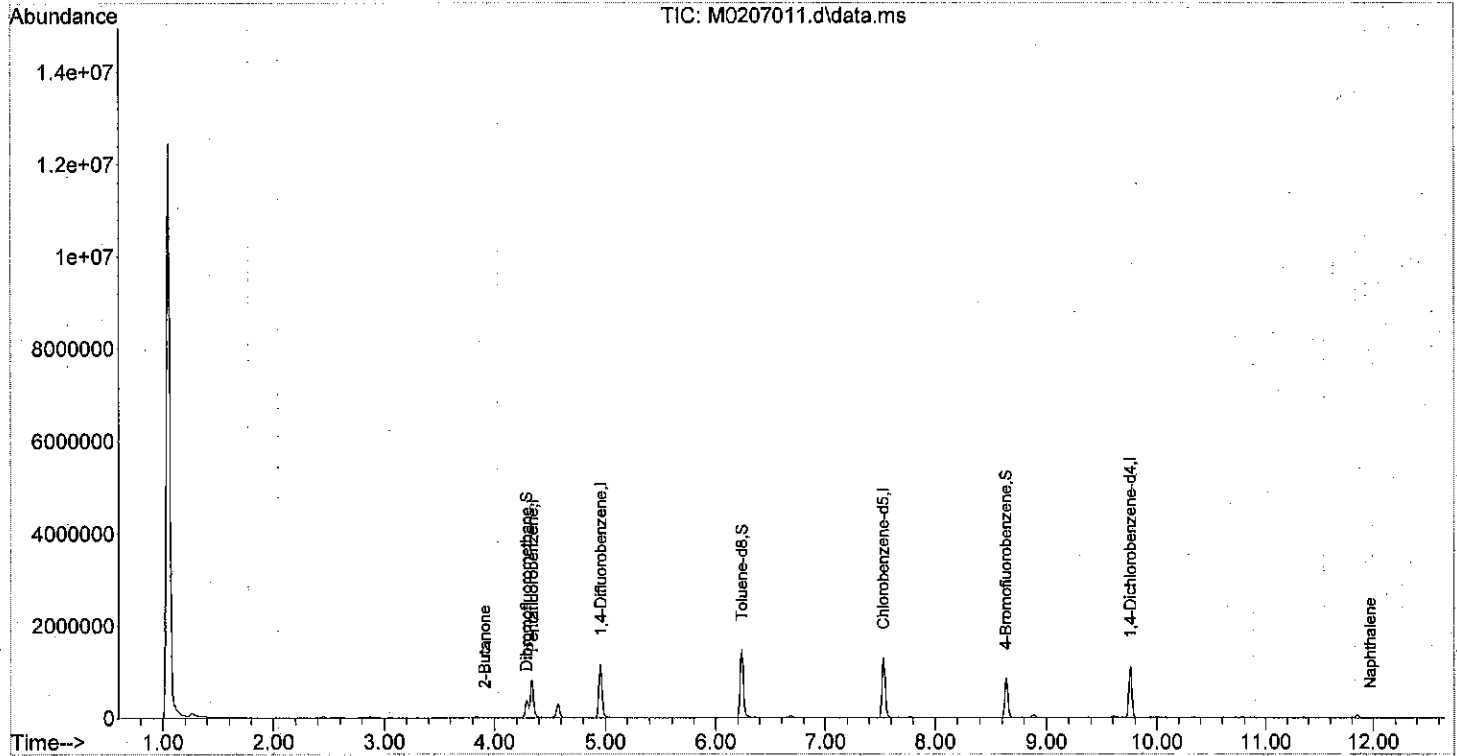
Quant Time: Feb 07 15:09:11 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

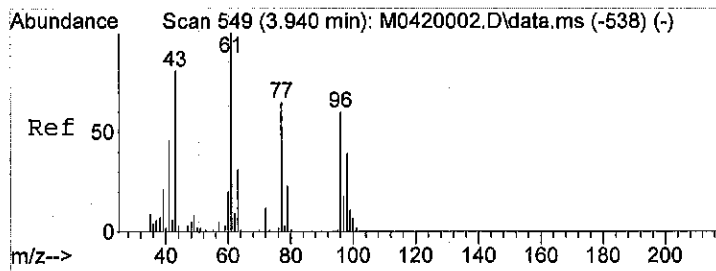
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	599094	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	622021	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1013998	10.00	ppb	0.00
43) Chlorobenzene-d5	7.530	117	837138	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	857369	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	343981	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	245424	9.93	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	99.30%
41) Toluene-d8	6.237	98	1097893	9.79	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	97.90%
59) 4-Bromofluorobenzene	8.636	95	347380	9.69	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	96.90%
Target Compounds						
21) 2-Butanone	3.909	43	6101	0.86	ppb	# 73
31] Vinyl Chloride (SIM)	1.397	62	1456	43.72	ppt	# 41
82) Naphthalene	11.970	128	1215	0.65	ppb	# 72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207011.d
 Acq On : 7 Feb 2022 2:52 pm
 Operator :
 Sample : 02-068-04g
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

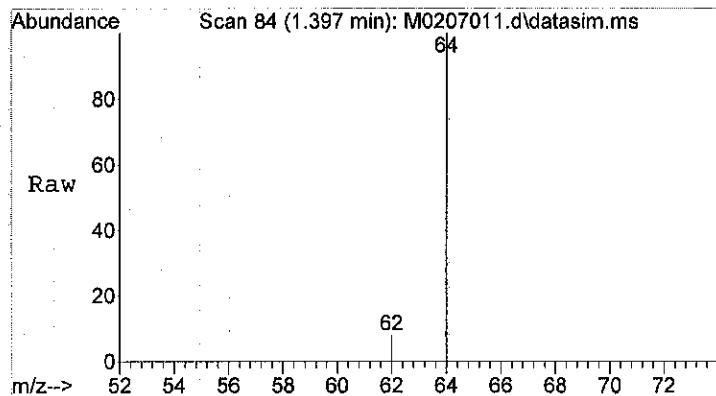
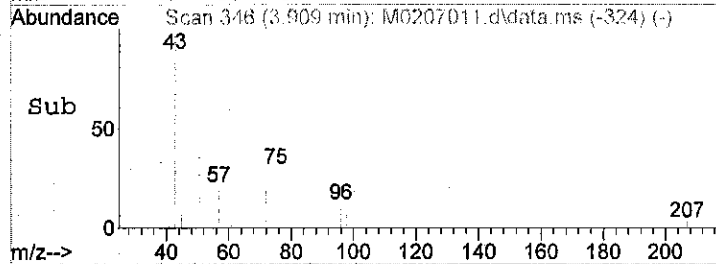
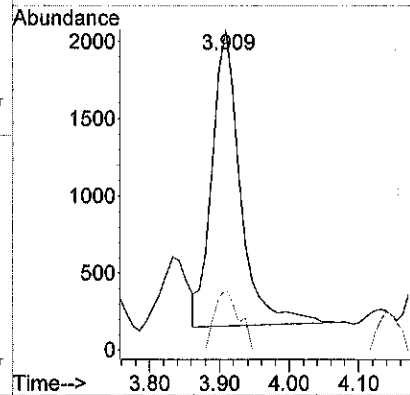
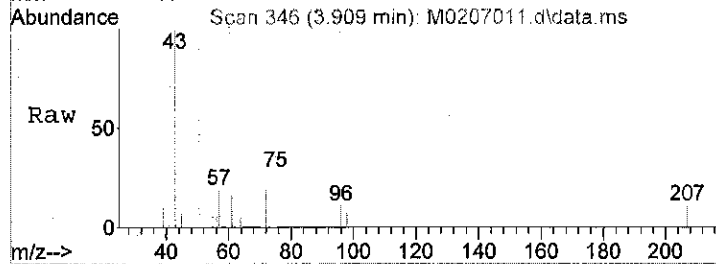
Quant Time: Feb 07 15:09:11 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration





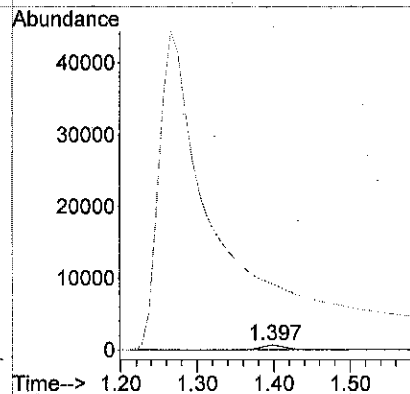
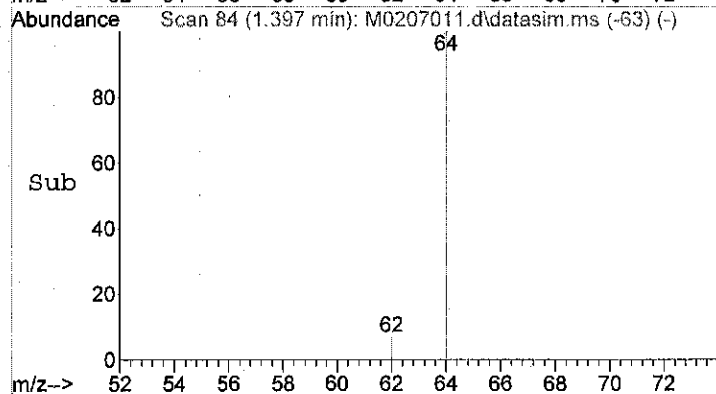
#21
 2-Butanone
 Concen: 0.86 ppb
 RT: 3.909 min Scan# 346
 Delta R.T. 0.010 min
 Lab File: M0207011.d
 Acq: 7 Feb 2022 2:52 pm

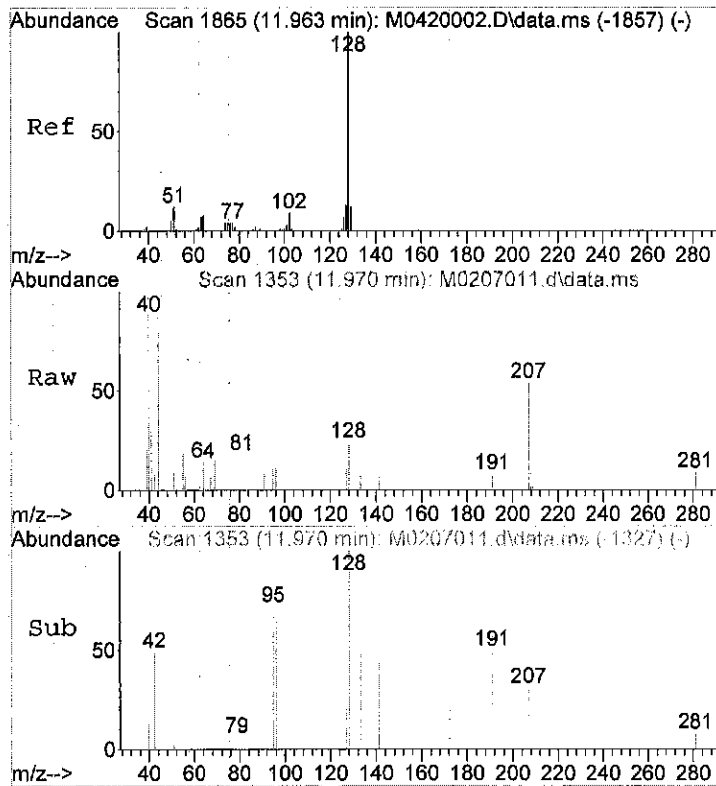
Tgt Ion: 43 Resp: 6101
 Ion Ratio Lower Upper
 43 100
 72 15.2 23.7 35.5#



#31
 Vinyl Chloride (SIM)
 Concen: 43.72 ppt
 RT: 1.397 min Scan# 84
 Delta R.T. -0.001 min
 Lab File: M0207011.d
 Acq: 7 Feb 2022 2:52 pm

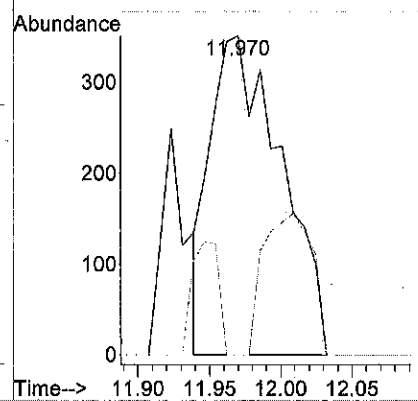
Tgt Ion: 62 Resp: 1456
 Ion Ratio Lower Upper
 62 100
 64 0.0 27.0 40.4#





#82
 Naphthalene
 Concen: 0.65 ppb
 RT: 11.970 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: M0207011.d
 Acq: 7 Feb 2022 2:52 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	0.0	8.5	12.7#



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207012.d
 Acq On : 7 Feb 2022 3:19 pm
 Operator :
 Sample : 02-068-05g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 07 15:39:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

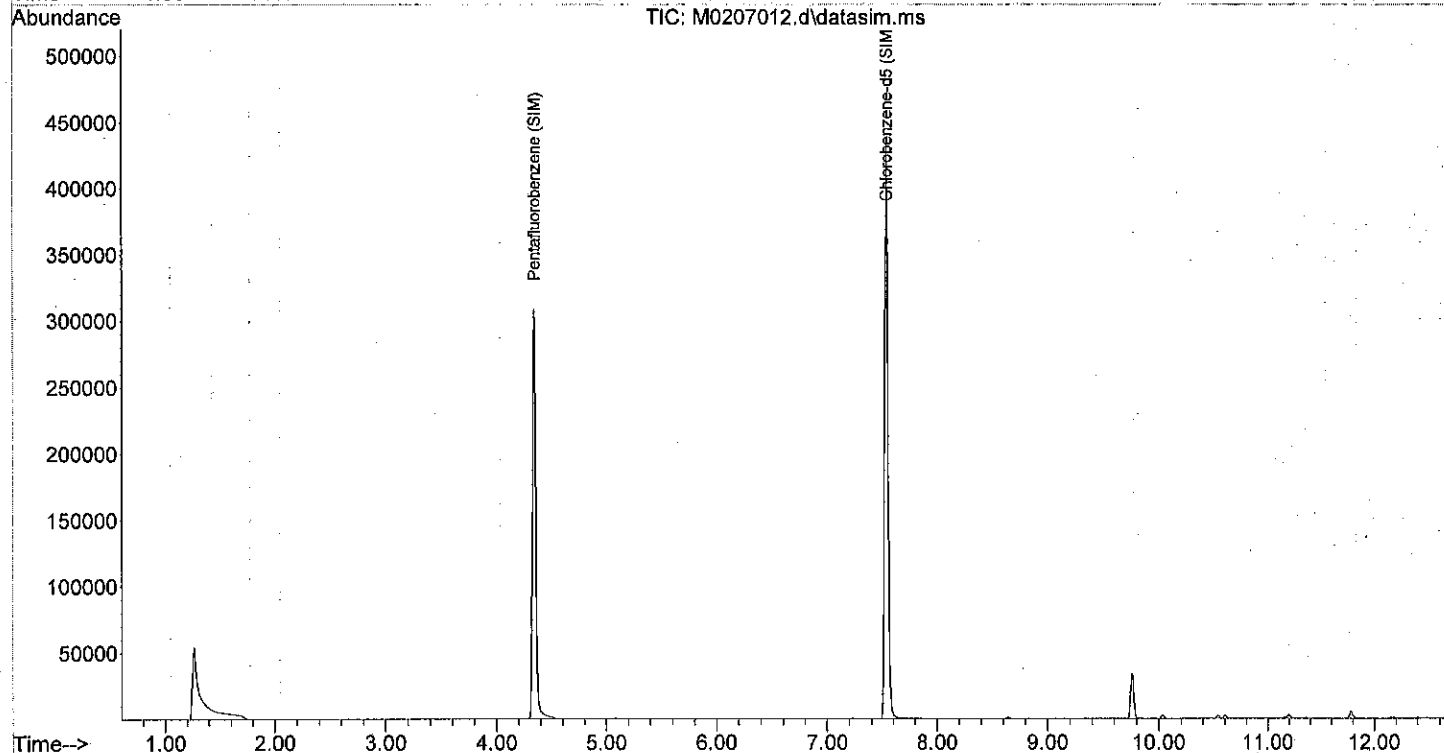
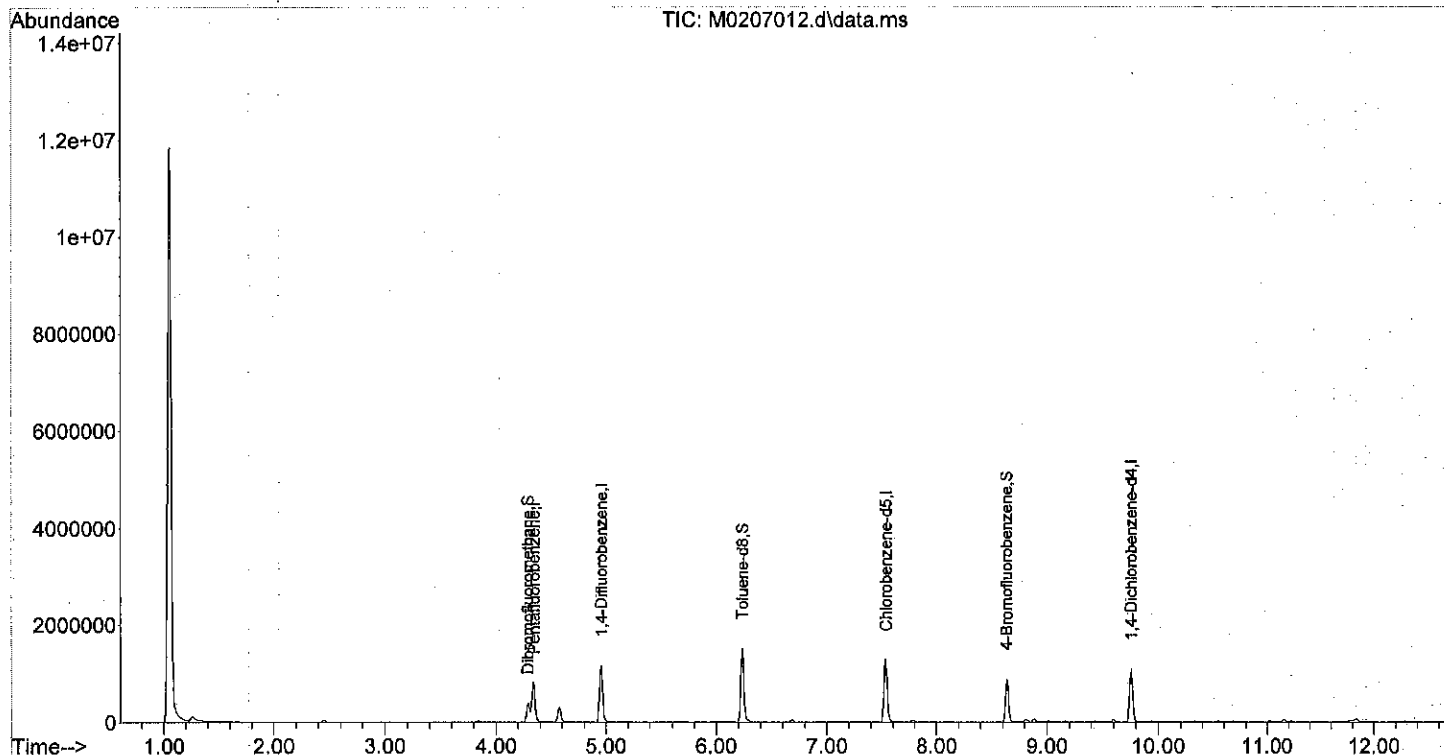
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	605425	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	628630	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1019212	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	850195	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	867551	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	348447	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	251802	10.08	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	100.80%
41) Toluene-d8	6.237	98	1116407	9.91	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.10%
59) 4-Bromofluorobenzene	8.636	95	354281	9.73	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	97.30%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207012.d
 Acq On : 7 Feb 2022 3:19 pm
 Operator :
 Sample : 02-068-05g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 07 15:39:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207013.d
 Acq On : 7 Feb 2022 3:52 pm
 Operator :
 Sample : 02-068-06g
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 07 16:06:36 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

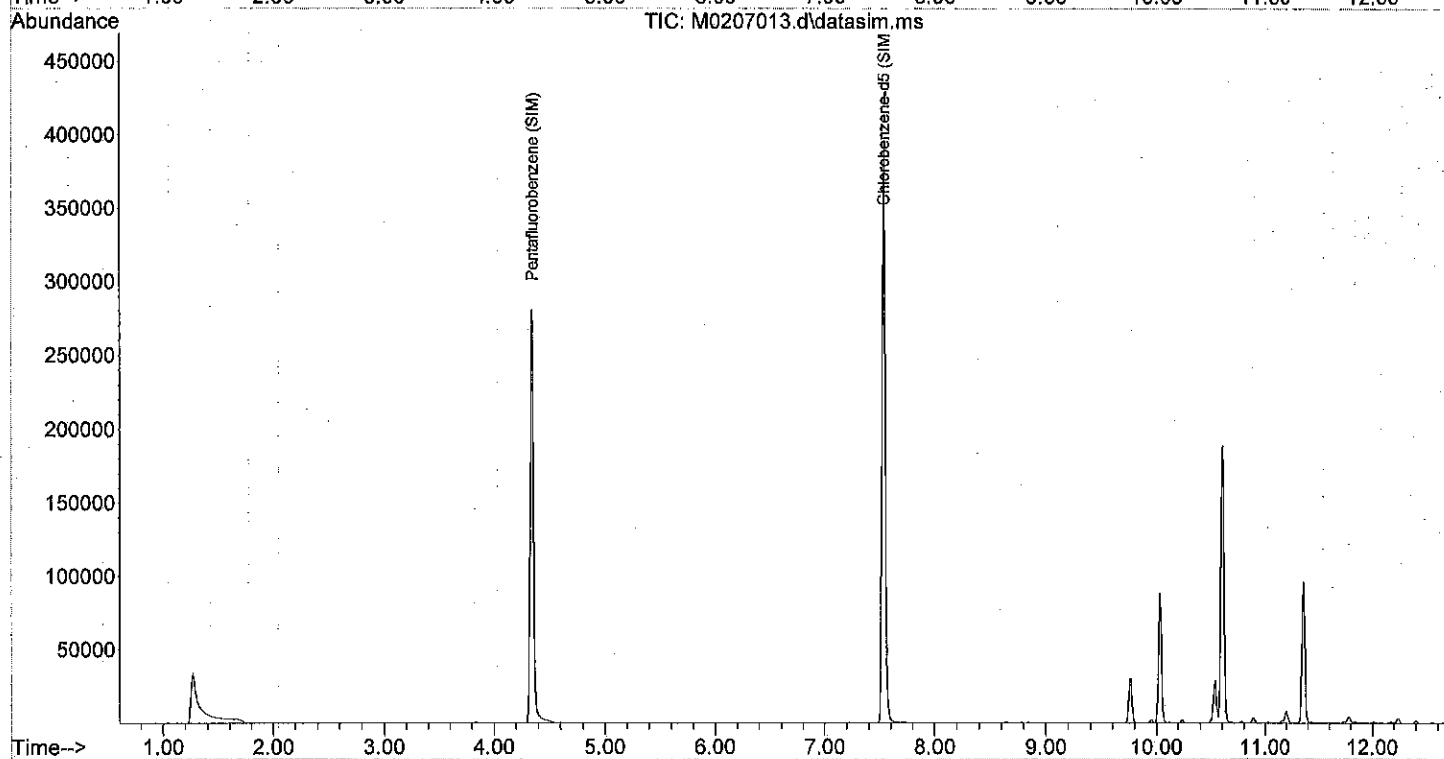
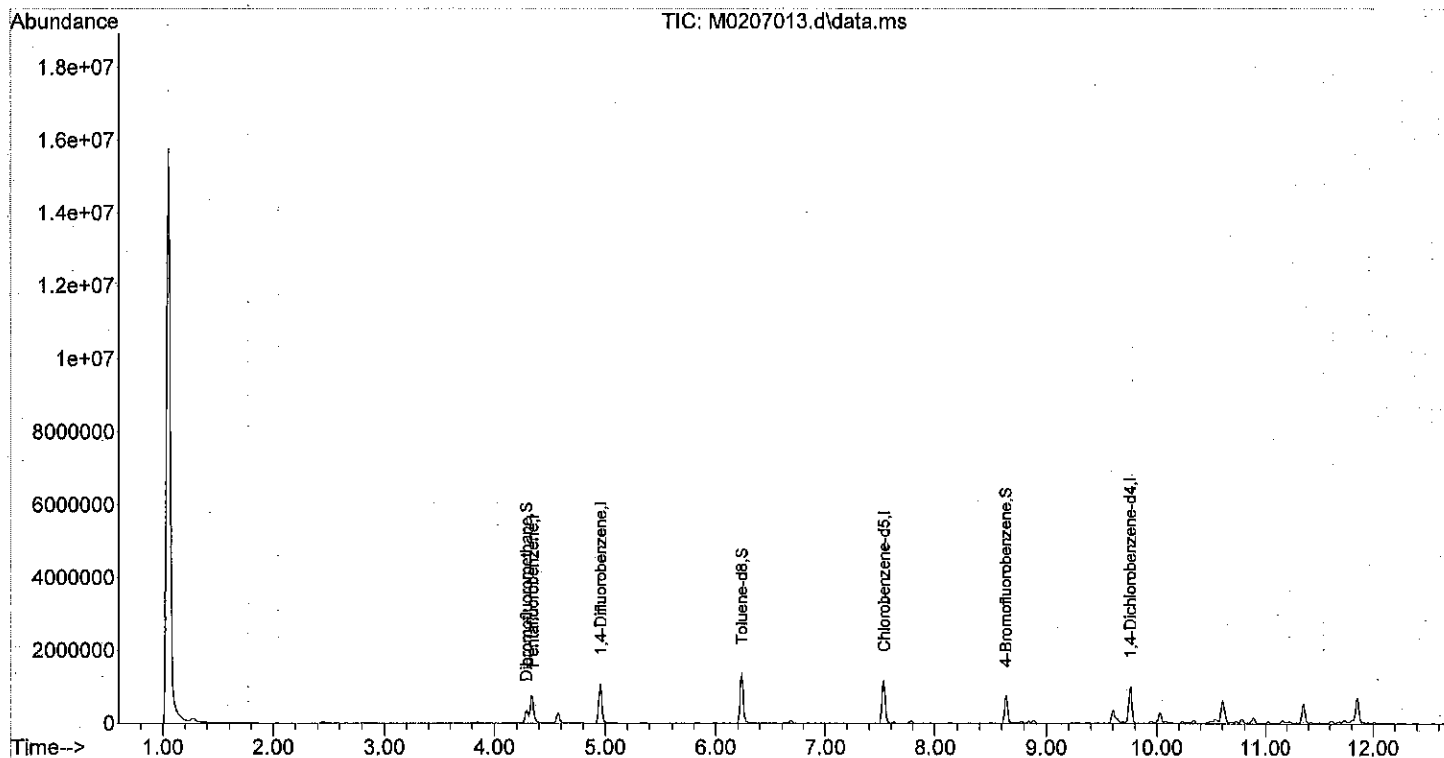
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	552712	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	572924	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	929997	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	769652	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	785970	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	308585	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	225184	9.87	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	98.70%
41) Toluene-d8	6.237	98	1014199	9.86	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.60%
59) 4-Bromofluorobenzene	8.636	95	314389	9.54	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	95.40%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207013.d
 Acq On : 7 Feb 2022 3:52 pm
 Operator :
 Sample : 02-068-06g
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 07 16:06:36 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207007.d
 Acq On : 7 Feb 2022 1:06 pm
 Operator :
 Sample : MB0207W1
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 13:26:41 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

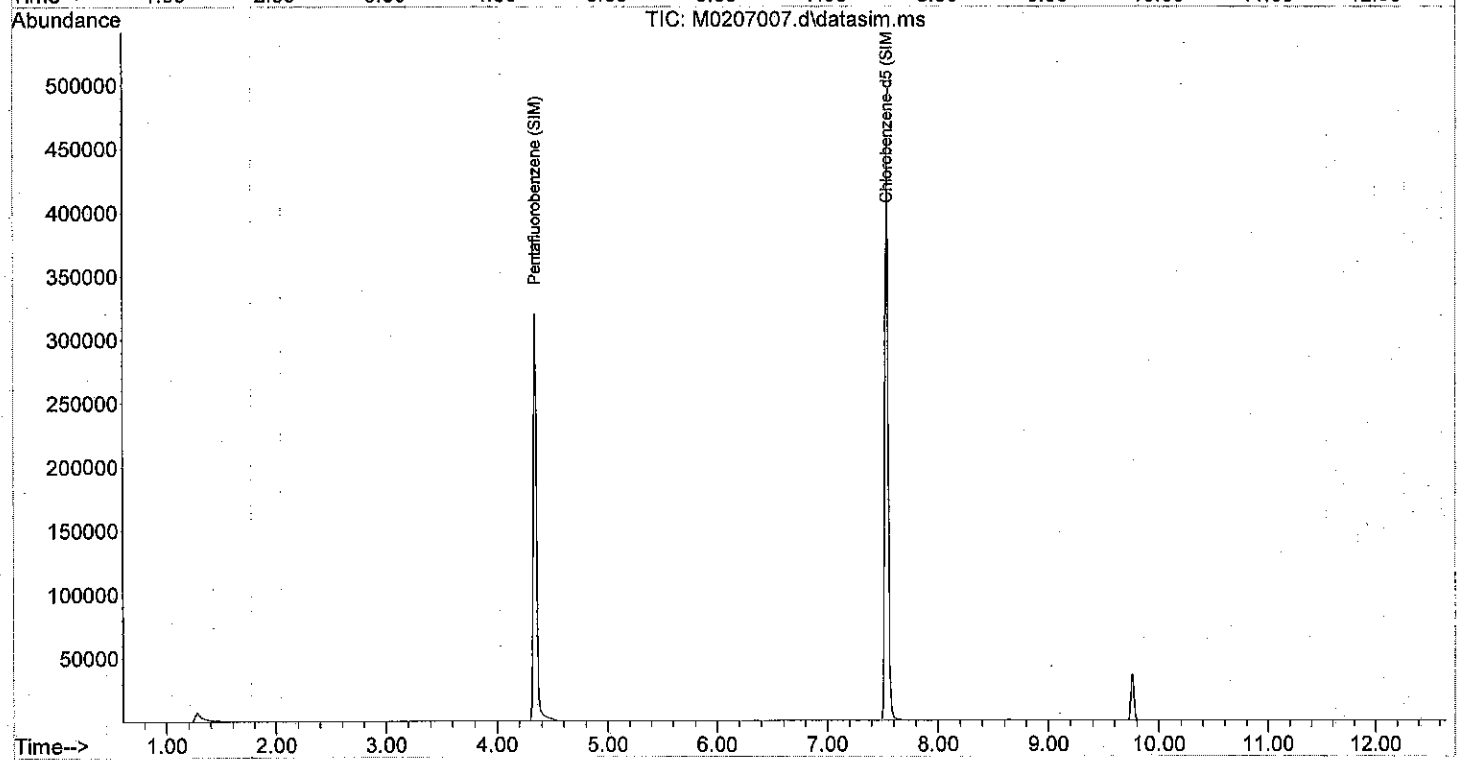
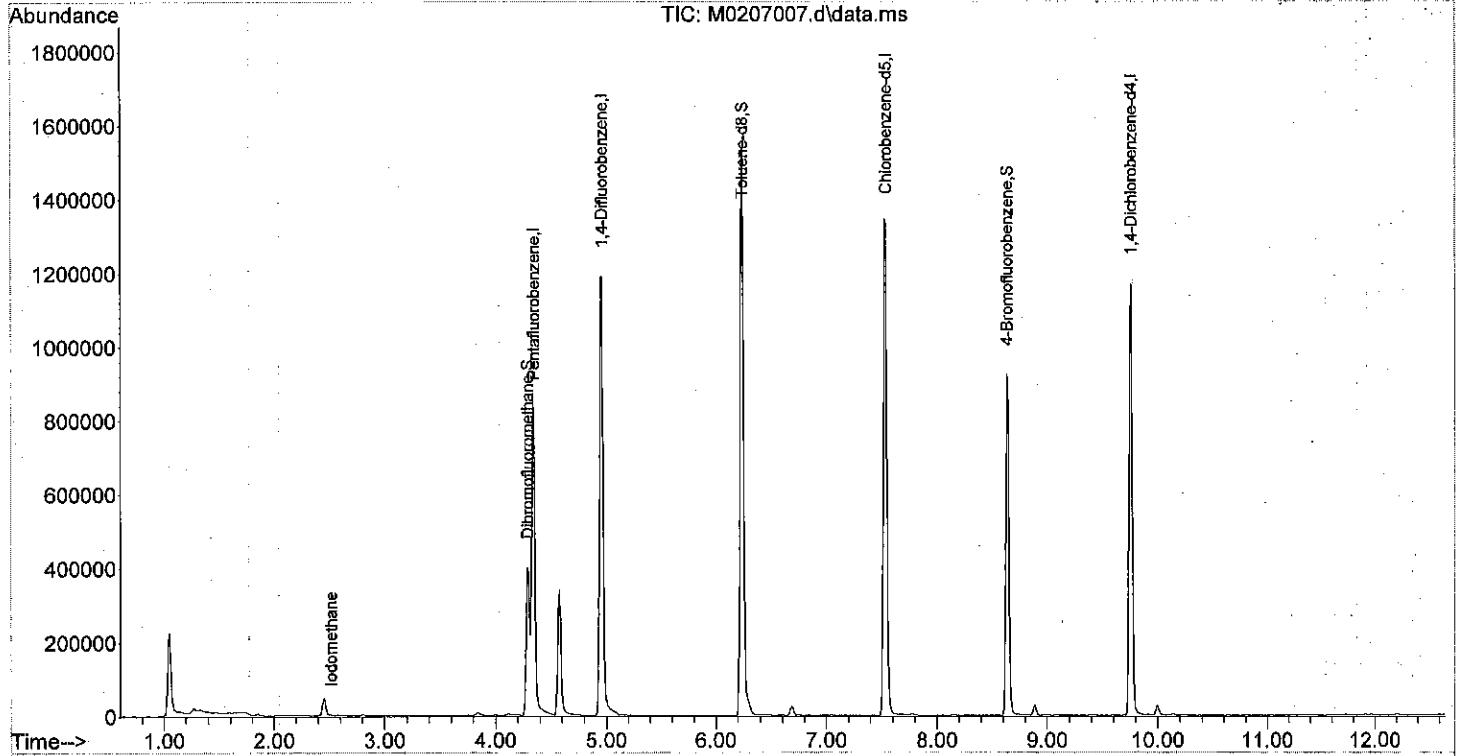
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

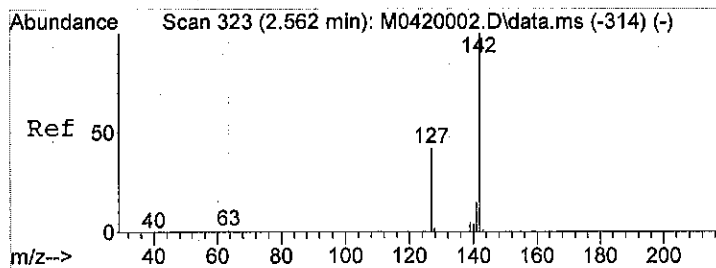
Internal Standards						
1) Pentafluorobenzene	4.342	168	635634	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	657425	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1054449	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	890481	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	904102	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	362531	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	265193	10.11	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	101.10%
41) Toluene-d8	6.237	98	1159335	9.94	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.40%
59) 4-Bromofluorobenzene	8.636	95	376574	9.88	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	98.80%
Target Compounds						
10) Iodomethane	2.518	142	1109	4.61	ppb	Qvalue # 30

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207007.d
 Acq On : 7 Feb 2022 1:06 pm
 Operator :
 Sample : MB0207W1
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

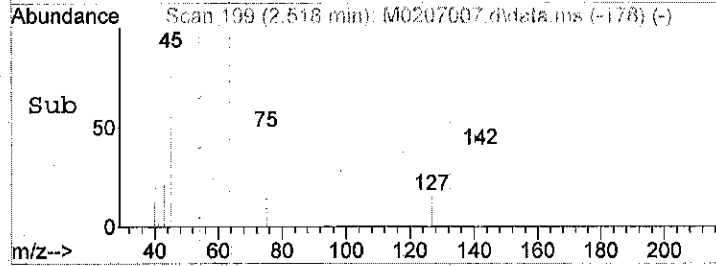
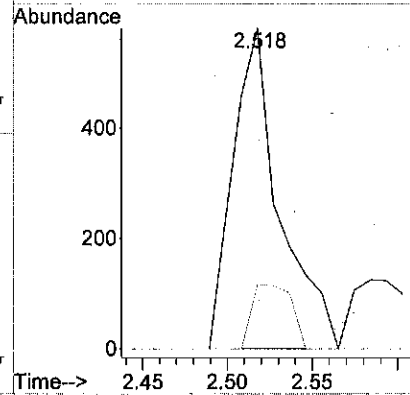
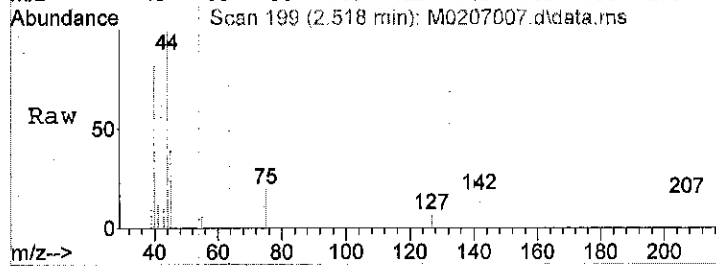
Quant Time: Feb 07 13:26:41 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration





#10
 Iodomethane
 Concen: 4.61 ppb
 RT: 2.518 min Scan# 199
 Delta R.T. -0.000 min
 Lab File: M0207007.d
 Acq: 7 Feb 2022 1:06 pm

Tgt Ion: 142 Resp: 1109
 Ion Ratio Lower Upper
 142 100
 127 0.0 36.9 55.3#



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.342	168	648806	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	672405	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1063657	10.00	ppb	0.00
43) Chlorobenzene-d5	7.537	117	881296	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.535	117	901276	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.757	152	367312	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.295	111	263576	9.85	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	98.50%
41) Toluene-d8	6.236	98	1173642	9.98	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.80%
59) 4-Bromofluorobenzene	8.636	95	378019	10.02	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	100.20%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.183	85	300154	12.60	ppb	98
3) Chloromethane	1.325	50	313323	10.14	ppb	99
4) Vinyl Chloride	1.401	62	382469	10.99	ppb	100
5) Bromomethane	1.647	96	73067	12.25	ppb	97
6) Chloroethane	1.732	64	235437	9.21	ppb	99
7) Trichlorofluoromethane	1.950	101	610718	9.21	ppb	99
8) 1,1-Dichloroethene	2.394	61	650921	9.47	ppb	99
9) Acetone	2.442	43	32166	7.71	ppb	98
10) Iodomethane	2.517	142	120830	8.94	ppb	99
11) Carbon Disulfide	2.574	76	930720	7.82	ppb	100
12) Methylene Chloride	2.801	49	538099	9.36	ppb	100
13) Acrylonitrile	3.009	53	59427	9.66	ppb	# 98
14) (trans) 1,2-Dichloroet...	3.047	61	613389	9.16	ppb	100
15) Methyl t-Butyl Ether	3.047	73	700597	9.68	ppb	99
16) n-Hexane	3.293	57	596073	9.63	ppb	99
17) 1,1-Dichloroethane	3.397	63	757128	9.78	ppb	100
18) Vinyl Acetate	3.445	43	431391	9.21	ppb	99
19) 2,2-Dichloropropane	3.889	77	701912	10.05	ppb	99
20) (cis) 1,2-Dichloroethene	3.889	61	784812	9.62	ppb	100
21) 2-Butanone	3.899	43	68446	8.89	ppb	100
22) Bromochloromethane	4.084	130	236189	10.60	ppb	97
23) Chloroform	4.155	83	703119	9.59	ppb	99
24) 1,1,1-Trichloroethane	4.318	97	639583	9.55	ppb	97
26) Carbon Tetrachloride	4.459	117	592693	9.48	ppb	100
27) 1,1-Dichloropropene	4.459	75	566842	9.26	ppb	100
28) Benzene	4.630	78	1547964	9.49	ppb	100
29) 1,2-Dichloroethane	4.638	62	433630	9.88	ppb	100
31] Vinyl Chloride (SIM)	1.397	62	394810	10965.75	ppt	99
32] 1,1-Dichloroethene (SIM)	2.391	61	667242	9438.76	ppt	100
34) Trichloroethene	5.176	130	433593	9.76	ppb	99
35) 1,2-Dichloropropane	5.363	63	405662	9.83	ppb	99
36) Dibromomethane	5.464	174	177513	10.22	ppb	99
37) Bromodichloromethane	5.597	83	480269	9.68	ppb	99
38) 2-Chloroethyl Vinyl Ether	5.870	63	20960	8.11	ppb	100
39) (cis) 1,3-Dichloropropene	5.995	75	575460	10.34	ppb	99

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

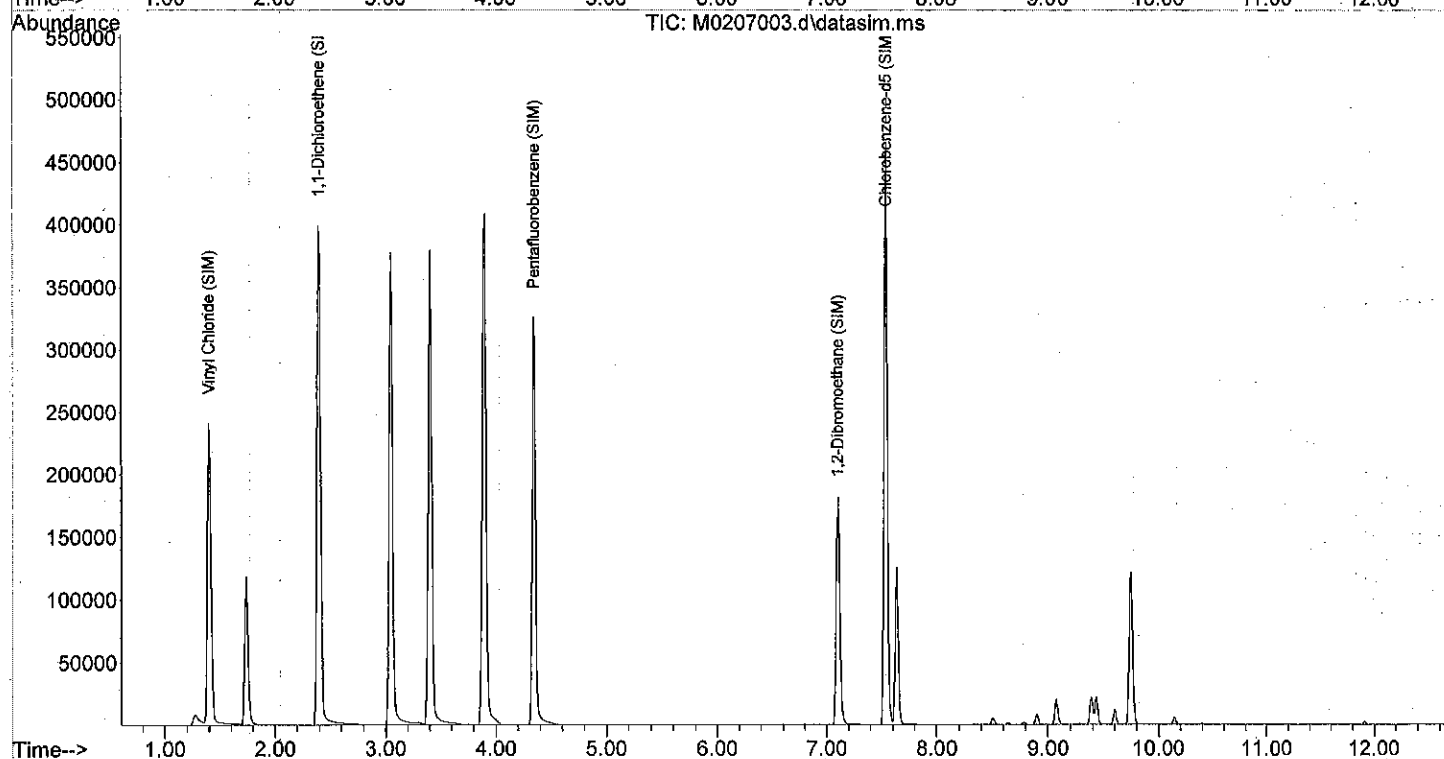
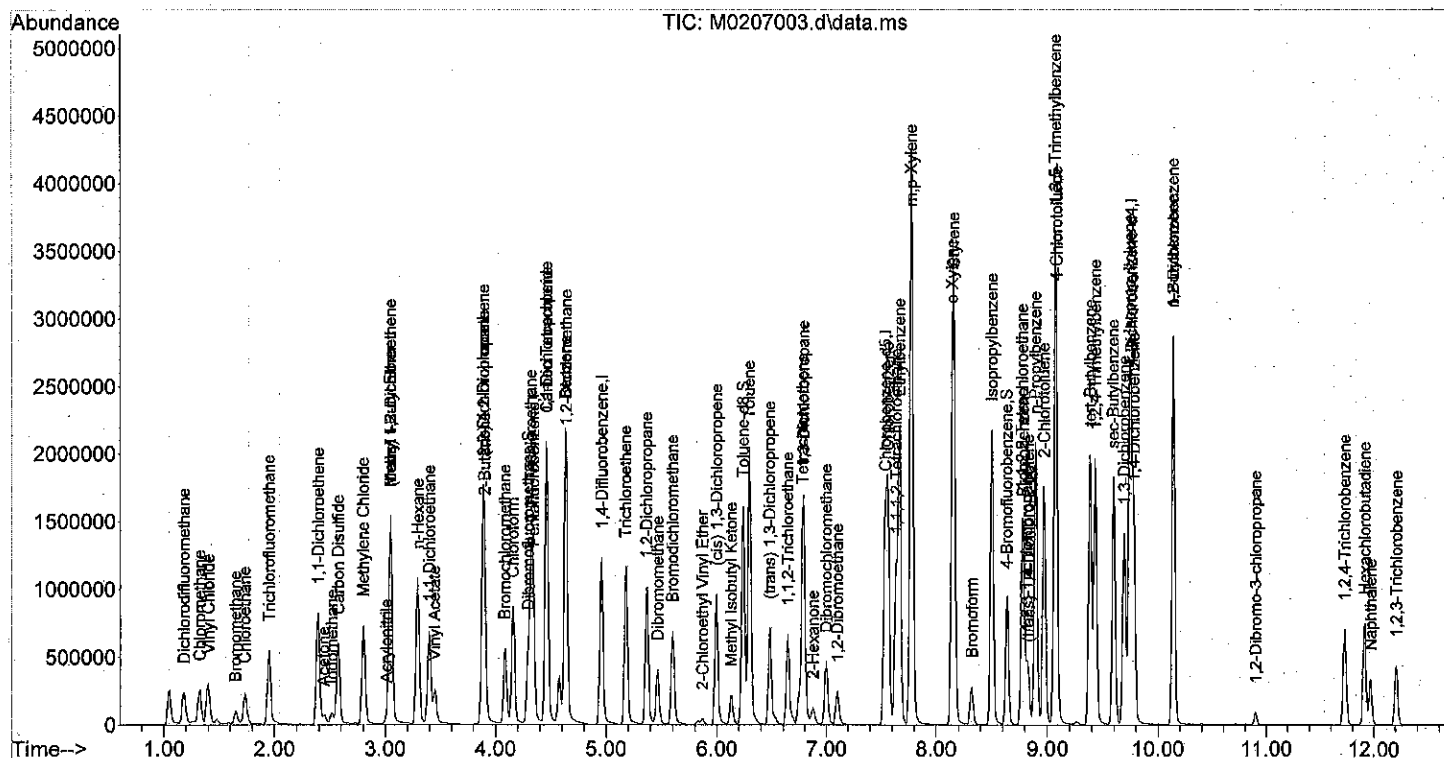
Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
40) Methyl Isobutyl Ketone	6.127	43	167078	8.94	ppb	99
42) Toluene	6.291	91	1628036	9.26	ppb	100
44) (trans) 1,3-Dichloropr...	6.478	75	423560	10.50	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	222665	9.25	ppb	100
46) Tetrachloroethene	6.781	166	494173	8.94	ppb	97
47) 1,3-Dichloropropane	6.791	76	462232	9.78	ppb	99
48) 2-Hexanone	6.876	43	107574	8.63	ppb	97
49) Dibromochloromethane	6.999	129	300602	9.87	ppb	100
50) 1,2-Dibromoethane	7.103	107	209938	10.39	ppb	99
51) Chlorobenzene	7.561	112	977378	9.46	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	340758	9.92	ppb	99
53) Ethylbenzene	7.670	91	1777311	9.39	ppb	99
54) m,p-Xylene	7.779	91	2847464	19.43	ppb	100
55) o-Xylene	8.145	91	1387964	9.63	ppb	100
56) Styrene	8.160	104	1075182	9.71	ppb	100
57) Bromoform	8.324	173	152585	10.08	ppb	100
58) Isopropylbenzene	8.503	105	1694433	9.63	ppb	100
61] 1,2-Dibromoethane (SIM)	7.099	107	213750	10203.48	ppt	100
63) Bromobenzene	8.784	156	384450	9.66	ppb	98
64) 1,1,2,2-Tetrachloroethane	8.776	83	224992	9.82	ppb	99
65) 1,2,3-Trichloropropane	8.815	75	272785	9.30	ppb	# 100
66) (trans) 1,4-Dichloro-2...	8.830	53	64880	10.89	ppb	98
67) n-Propylbenzene	8.893	91	1939367	9.61	ppb	100
68) 2-Chlorotoluene	8.971	126	389581	9.54	ppb	99
69) 4-Chlorotoluene	9.080	126	400866	9.72	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	1338861	9.49	ppb	100
71) tert-Butylbenzene	9.383	119	1290492	9.44	ppb	100
72) 1,2,4-Trimethylbenzene	9.430	105	1323761	9.54	ppb	100
73) sec-Butylbenzene	9.594	105	1542529	9.67	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	687834	9.71	ppb	99
75) p-Isopropyltoluene	9.742	119	1329518	9.56	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	692255	9.60	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	566652	9.77	ppb	100
78) n-Butylbenzene	10.139	91	1143656	9.71	ppb	100
79) 1,2-Dibromo-3-chloropr...	10.902	157	28024	9.44	ppb	98
80) 1,2,4-Trichlorobenzene	11.728	180	258758	10.07	ppb	99
81) Hexachlorobutadiene	11.915	225	174027	9.38	ppb	98
82) Naphthalene	11.970	128	323343	8.49	ppb	99
83) 1,2,3-Trichlorobenzene	12.211	180	166855	9.70	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207004.d
 Acq On : 7 Feb 2022 11:47 am
 Operator :
 Sample : SBD0207W1
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:59:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	649424	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	671133	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1061486	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	863625	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	887958	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	365440	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	263350	9.83	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	98.30%		
41) Toluene-d8	6.237	98	1171835	9.98	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.80%		
59) 4-Bromofluorobenzene	8.636	95	374401	10.13	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	101.30%		
Target Compounds						
2) Dichlorodifluoromethane	1.174	85	305293	12.80	ppb	100
3) Chloromethane	1.316	50	315739	10.21	ppb	100
4) Vinyl Chloride	1.392	62	380364	10.91	ppb	99
5) Bromomethane	1.647	96	88952	14.88	ppb	100
6) Chloroethane	1.732	64	230793	9.02	ppb	99
7) Trichlorofluoromethane	1.950	101	624528	9.41	ppb	99
8) 1,1-Dichloroethene	2.385	61	642829	9.34	ppb	99
9) Acetone	2.433	43	33859	8.11	ppb	97
10) Iodomethane	2.518	142	197062	11.69	ppb	100
11) Carbon Disulfide	2.574	76	959814	8.06	ppb	100
12) Methylene Chloride	2.802	49	533321	9.27	ppb	100
13) Acrylonitrile	3.010	53	57937	9.41	ppb	# 98
14) (trans) 1,2-Dichloroet...	3.038	61	611841	9.13	ppb	100
15) Methyl t-Butyl Ether	3.048	73	704169	9.72	ppb	100
16) n-Hexane	3.294	57	637884	10.30	ppb	100
17) 1,1-Dichloroethane	3.398	63	753756	9.72	ppb	99
18) Vinyl Acetate	3.445	43	439387	9.38	ppb	99
19) 2,2-Dichloropropane	3.890	77	696181	9.96	ppb	98
20) (cis) 1,2-Dichloroethene	3.890	61	787698	9.65	ppb	99
21) 2-Butanone	3.899	43	64698	8.39	ppb	98
22) Bromochloromethane	4.085	130	235692	10.57	ppb	98
23) Chloroform	4.155	83	705647	9.62	ppb	99
24) 1,1,1-Trichloroethane	4.319	97	651989	9.73	ppb	99
26) Carbon Tetrachloride	4.459	117	590983	9.45	ppb	99
27) 1,1-Dichloropropene	4.459	75	560454	9.15	ppb	100
28) Benzene	4.630	78	1538616	9.42	ppb	99
29) 1,2-Dichloroethane	4.638	62	435159	9.91	ppb	99
31] Vinyl Chloride (SIM)	1.397	62	394611	10981.00	ppt	98
32] 1,1-Dichloroethene (SIM)	2.391	61	661985	9382.14	ppt	100
34) Trichloroethene	5.176	130	437852	9.88	ppb	100
35) 1,2-Dichloropropane	5.363	63	408886	9.92	ppb	99
36) Dibromomethane	5.465	174	177545	10.24	ppb	100
37) Bromodichloromethane	5.597	83	486812	9.84	ppb	99
38) 2-Chloroethyl Vinyl Ether	5.870	63	21036	8.15	ppb	96
39) (cis) 1,3-Dichloropropene	5.995	75	583009	10.50	ppb	100

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207004.d
 Acq On : 7 Feb 2022 11:47 am
 Operator :
 Sample : SBD0207W1
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 4 Sample Multiplier: 1

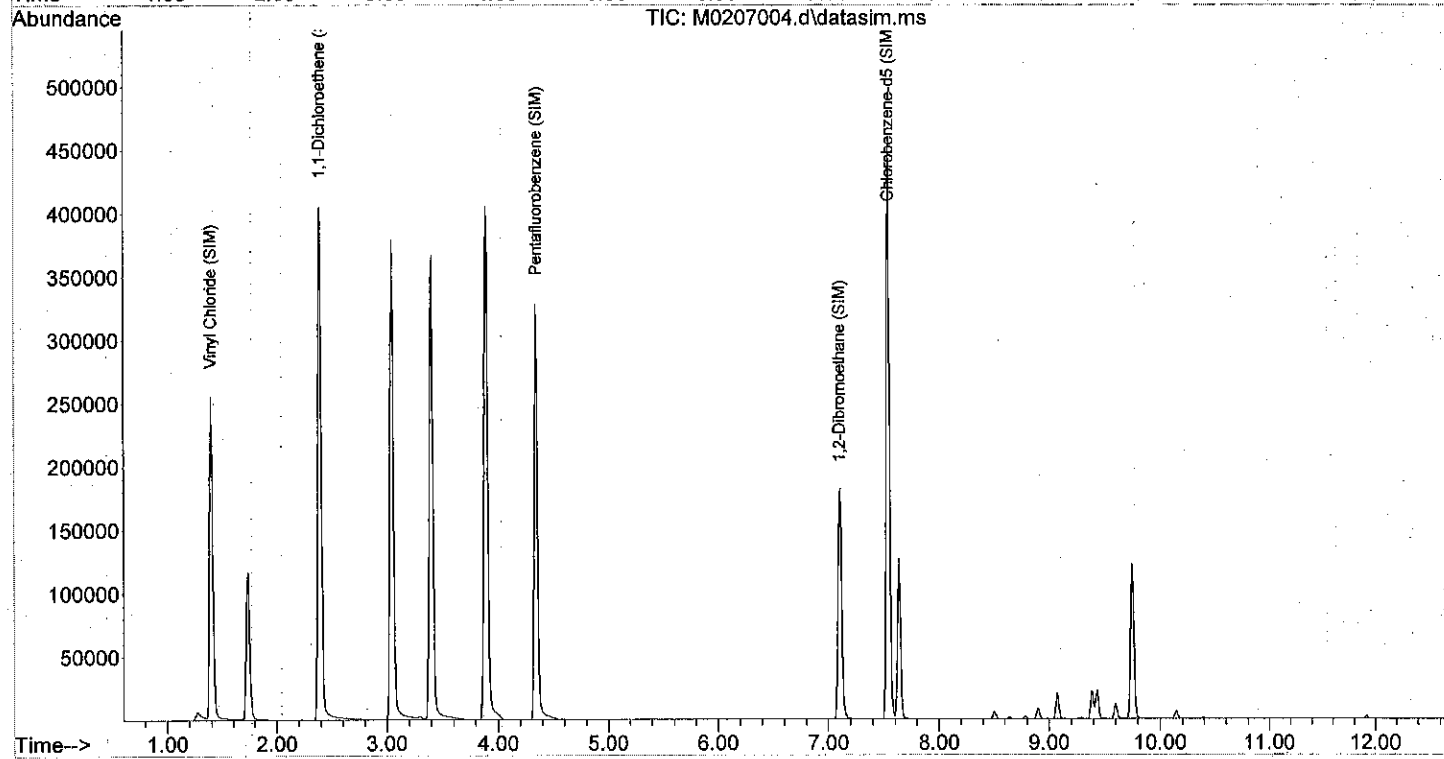
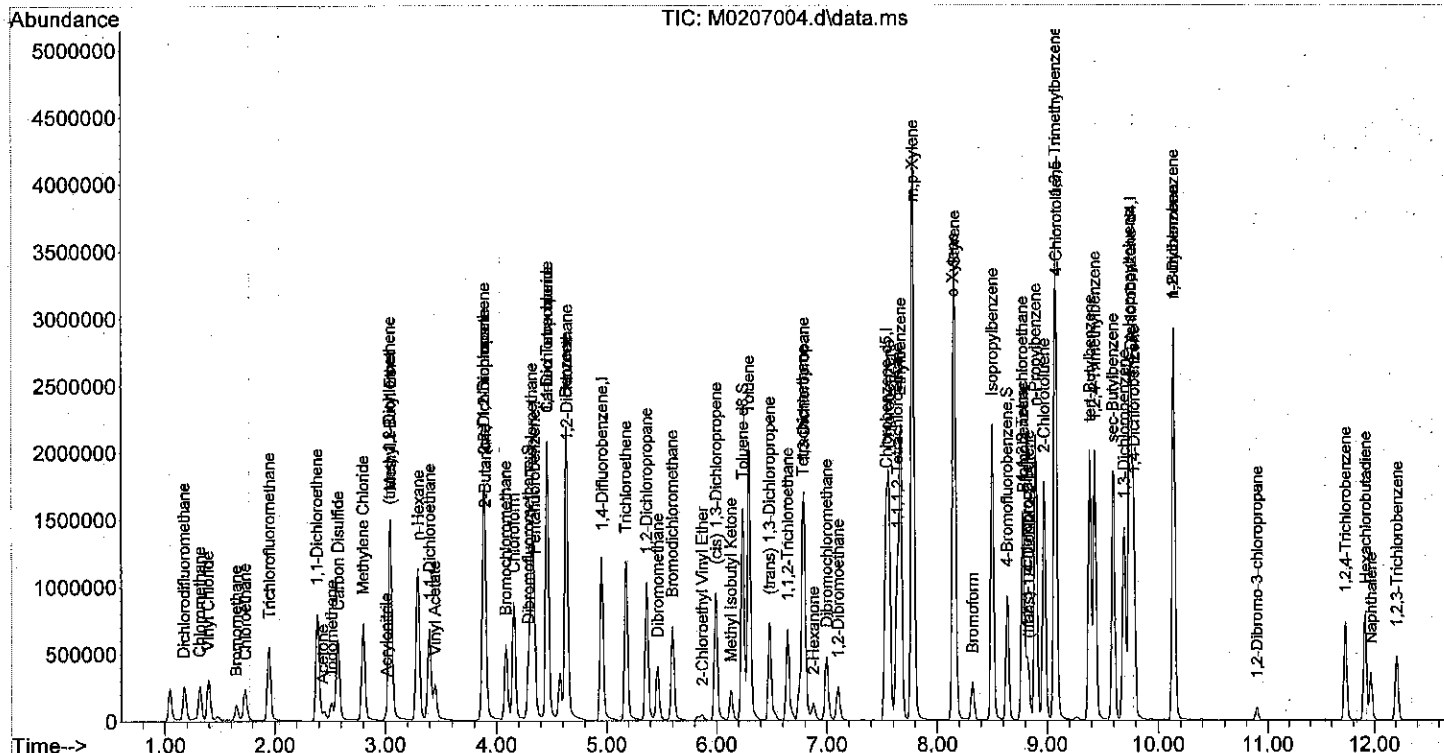
Quant Time: Feb 07 11:59:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Isobutyl Ketone	6.128	43	170030	9.12	ppb	99
42) Toluene	6.291	91	1623419	9.25	ppb	99
44) (trans) 1,3-Dichloropr...	6.478	75	424497	10.74	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	281103	11.92	ppb	# 81
46) Tetrachloroethene	6.781	166	504650	9.31	ppb	98
47) 1,3-Dichloropropane	6.791	76	467850	10.10	ppb	99
48) 2-Hexanone	6.876	43	121293	9.93	ppb	93
49) Dibromochloromethane	6.999	129	311837	10.45	ppb	100
50) 1,2-Dibromoethane	7.103	107	213607	10.79	ppb	98
51) Chlorobenzene	7.561	112	987941	9.76	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	347329	10.32	ppb	98
53) Ethylbenzene	7.670	91	1793424	9.67	ppb	100
54) m,p-Xylene	7.779	91	2869262	19.98	ppb	100
55) o-Xylene	8.145	91	1398959	9.90	ppb	100
56) Styrene	8.161	104	1081099	9.96	ppb	100
57) Bromoform	8.324	173	154247	10.39	ppb	99
58) Isopropylbenzene	8.503	105	1714874	9.95	ppb	100
61] 1,2-Dibromoethane (SIM)	7.100	107	216058	10468.34	ppt	100
63) Bromobenzene	8.784	156	389268	9.84	ppb	98
64) 1,1,2,2-Tetrachloroethane	8.776	83	228267	10.01	ppb	99
65) 1,2,3-Trichloropropane	8.815	75	279117	9.56	ppb	# 100
66) (trans) 1,4-Dichloro-2...	8.831	53	64273	10.84	ppb	99
67) n-Propylbenzene	8.893	91	1954071	9.74	ppb	100
68) 2-Chlorotoluene	8.971	126	394529	9.71	ppb	100
69) 4-Chlorotoluene	9.080	126	400891	9.77	ppb	100
70) 1,3,5-Trimethylbenzene	9.072	105	1352501	9.63	ppb	99
71) tert-Butylbenzene	9.384	119	1295788	9.52	ppb	100
72) 1,2,4-Trimethylbenzene	9.430	105	1341231	9.71	ppb	100
73) sec-Butylbenzene	9.594	105	1566238	9.87	ppb	99
74) 1,3-Dichlorobenzene	9.695	146	695039	9.86	ppb	98
75) p-Isopropyltoluene	9.742	119	1354569	9.79	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	696184	9.70	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	569779	9.88	ppb	99
78) n-Butylbenzene	10.139	91	1172636	10.01	ppb	100
79) 1,2-Dibromo-3-chloropr...	10.903	157	29272	9.91	ppb	98
80) 1,2,4-Trichlorobenzene	11.728	180	273977	10.72	ppb	98
81) Hexachlorobutadiene	11.915	225	190378	10.31	ppb	97
82) Naphthalene	11.970	128	344523	9.04	ppb	99
83) 1,2,3-Trichlorobenzene	12.211	180	183608	10.73	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207004.d
 Acq On : 7 Feb 2022 11:47 am
 Operator :
 Sample : SBD0207W1
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 11:59:46 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	103	0.00
2	Dichlorodifluoromethane	10.000	12.601	-26.0#	151	0.00
3	Chloromethane	10.000	10.144	-1.4	122	0.00
4	Vinyl Chloride	10.000	10.985	-9.8	114	0.00
5	Bromomethane	10.000	12.249	-22.5#	115	0.00
6	Chloroethane	10.000	9.211	7.9	104	0.00
7	Trichlorofluoromethane	10.000	9.209	7.9	100	0.00
8	1,1-Dichloroethene	10.000	9.471	5.3	99	0.00
9	Acetone	10.000	7.711	22.9#	80	0.00
10	Iodomethane	10.000	8.935	10.6	104	0.00
11	Carbon Disulfide	10.000	7.819	21.8#	82	0.00
12	Methylene Chloride	10.000	9.365	6.3	99	0.00
13	Acrylonitrile	10.000	9.660	3.4	93	0.00
14	(trans) 1,2-Dichloroethene	10.000	9.159	8.4	96	0.00
15	Methyl t-Butyl Ether	10.000	9.681	3.2	99	0.00
16	n-Hexane	10.000	9.633	3.7	100	0.00
17	1,1-Dichloroethane	10.000	9.777	2.2	101	0.00
18	Vinyl Acetate	10.000	9.215	7.9	91	0.00
19	2,2-Dichloropropane	10.000	10.050	-0.5	106	0.00
20	(cis) 1,2-Dichloroethene	10.000	9.622	3.8	99	0.00
21	2-Butanone	10.000	8.889	11.1	92	0.00
22	Bromochloromethane	10.000	10.600	-6.0	102	0.00
23	Chloroform	10.000	9.590	4.1	99	0.00
24	1,1,1-Trichloroethane	10.000	9.553	4.5	99	0.00
25 S	Dibromofluoromethane	10.000	9.846	1.5	101	0.00
26	Carbon Tetrachloride	10.000	9.485	5.2	100	0.00
27	1,1-Dichloropropene	10.000	9.265	7.3	102	0.00
28	Benzene	10.000	9.486	5.1	98	0.00
29	1,2-Dichloroethane	10.000	9.882	1.2	102	0.00
30	Pentafluorobenzene (SIM)	10000.000	10000.000	0.0	103	0.00
31	Vinyl Chloride (SIM)	10000.000	10965.753	-9.7	116	0.00
32	1,1-Dichloroethene (SIM)	10000.000	9438.761	5.6	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	101	0.00
34	Trichloroethene	10.000	9.761	2.4	100	0.00
35	1,2-Dichloropropane	10.000	9.826	1.7	101	0.00
36	Dibromomethane	10.000	10.222	-2.2	103	0.00
37	Bromodichloromethane	10.000	9.683	3.2	97	0.00
38	2-Chloroethyl Vinyl Ether	10.000	8.105	18.9	81	0.00
39	(cis) 1,3-Dichloropropene	10.000	10.343	-3.4	102	0.00
40	Methyl Isobutyl Ketone	10.000	8.941	10.6	89	0.00
41 S	Toluene-d8	10.000	9.978	0.2	101	0.00
42	Toluene	10.000	9.259	7.4	97	0.00
43 I	Chlorobenzene-d5	10.000	10.000	0.0	102	0.00
44	(trans) 1,3-Dichloropropene	10.000	10.504	-5.0	104	0.00
45	1,1,2-Trichloroethane	10.000	9.251	7.5	103	0.00

Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
46	Tetrachloroethene	10.000	8.936	10.6	97	0.00
47	1,3-Dichloropropane	10.000	9.777	2.2	102	0.00
48	2-Hexanone	10.000	8.628	13.7	89	0.00
49	Dibromochloromethane	10.000	9.870	1.3	98	0.00
50	1,2-Dibromoethane	10.000	10.392	-3.9	104	0.00
51	Chlorobenzene	10.000	9.464	5.4	99	0.00
52	1,1,1,2-Tetrachloroethane	10.000	9.921	0.8	101	0.00
53	Ethylbenzene	10.000	9.387	6.1	98	0.00
54	m,p-Xylene	20.000	19.427	2.9	100	0.00
55	o-Xylene	10.000	9.626	3.7	100	0.00
56	Styrene	10.000	9.708	2.9	98	0.00
57	Bromoform	10.000	10.076	-0.8	104	0.00
58	Isopropylbenzene	10.000	9.630	3.7	98	0.00
59 S	4-Bromofluorobenzene	10.000	10.019	-0.2	102	0.00
60	Chlorobenzene-d5 (SIM)	10000.000	10000.000	0.0	102	0.00
61	1,2-Dibromoethane (SIM)	10000.000	10203.480	-2.0	102	0.00
62 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	101	0.00
63	Bromobenzene	10.000	9.664	3.4	100	0.00
64	1,1,2,2-Tetrachloroethane	10.000	9.819	1.8	102	0.00
65	1,2,3-Trichloropropane	10.000	9.298	7.0	102	0.00
66	(trans) 1,4-Dichloro-2-bute	10.000	10.890	-8.9	102	0.00
67	n-Propylbenzene	10.000	9.614	3.9	100	0.00
68	2-Chlorotoluene	10.000	9.538	4.6	99	0.00
69	4-Chlorotoluene	10.000	9.722	2.8	101	0.00
70	1,3,5-Trimethylbenzene	10.000	9.486	5.1	98	0.00
71	tert-Butylbenzene	10.000	9.436	5.6	99	0.00
72	1,2,4-Trimethylbenzene	10.000	9.537	4.6	98	0.00
73	sec-Butylbenzene	10.000	9.666	3.3	100	0.00
74	1,3-Dichlorobenzene	10.000	9.705	2.9	100	0.00
75	p-Isopropyltoluene	10.000	9.565	4.4	98	0.00
76	1,4-Dichlorobenzene	10.000	9.596	4.0	101	0.00
77	1,2-Dichlorobenzene	10.000	9.773	2.3	101	0.00
78	n-Butylbenzene	10.000	9.711	2.9	99	0.00
79	1,2-Dibromo-3-chloropropane	10.000	9.442	5.6	97	0.00
80	1,2,4-Trichlorobenzene	10.000	10.074	-0.7	97	0.00
81	Hexachlorobutadiene	10.000	9.378	6.2	101	0.00
82	Naphthalene	10.000	8.485	15.2	97	0.00
83	1,2,3-Trichlorobenzene	10.000	9.702	3.0	95	0.00

(#) = Out of Range

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

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	648806	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	672405	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	1063657	10.00	ppb	0.00
43) Chlorobenzene-d5	7.537	117	881296	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.535	117	901276	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.757	152	367312	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.295	111	263576	9.85	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	98.50%		
41) Toluene-d8	6.236	98	1173642	9.98	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.80%		
59) 4-Bromofluorobenzene	8.636	95	378019	10.02	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	100.20%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.183	85	300154	12.60	ppb	98
3) Chloromethane	1.325	50	313323	10.14	ppb	99
4) Vinyl Chloride	1.401	62	382469	10.99	ppb	100
5) Bromomethane	1.647	96	73067	12.25	ppb	97
6) Chloroethane	1.732	64	235437	9.21	ppb	99
7) Trichlorofluoromethane	1.950	101	610718	9.21	ppb	99
8) 1,1-Dichloroethene	2.394	61	650921	9.47	ppb	99
9) Acetone	2.442	43	32166	7.71	ppb	98
10) Iodomethane	2.517	142	120830	8.94	ppb	99
11) Carbon Disulfide	2.574	76	930720	7.82	ppb	100
12) Methylene Chloride	2.801	49	538099	9.36	ppb	100
13) Acrylonitrile	3.009	53	59427	9.66	ppb	# 98
14) (trans) 1,2-Dichloroet...	3.047	61	613389	9.16	ppb	100
15) Methyl t-Butyl Ether	3.047	73	700597	9.68	ppb	99
16) n-Hexane	3.293	57	596073	9.63	ppb	99
17) 1,1-Dichloroethane	3.397	63	757128	9.78	ppb	100
18) Vinyl Acetate	3.445	43	431391	9.21	ppb	99
19) 2,2-Dichloropropane	3.889	77	701912	10.05	ppb	99
20) (cis) 1,2-Dichloroethene	3.889	61	784812	9.62	ppb	100
21) 2-Butanone	3.899	43	68446	8.89	ppb	100
22) Bromochloromethane	4.084	130	236189	10.60	ppb	97
23) Chloroform	4.155	83	703119	9.59	ppb	99
24) 1,1,1-Trichloroethane	4.318	97	639583	9.55	ppb	97
26) Carbon Tetrachloride	4.459	117	592693	9.48	ppb	100
27) 1,1-Dichloropropene	4.459	75	566842	9.26	ppb	100
28) Benzene	4.630	78	1547964	9.49	ppb	100
29) 1,2-Dichloroethane	4.638	62	433630	9.88	ppb	100
31) Vinyl Chloride (SIM)	1.397	62	394810	10965.75	ppt	99
32) 1,1-Dichloroethene (SIM)	2.391	61	667242	9438.76	ppt	100
34) Trichloroethene	5.176	130	433593	9.76	ppb	99
35) 1,2-Dichloropropane	5.363	63	405662	9.83	ppb	99
36) Dibromomethane	5.464	174	177513	10.22	ppb	99
37) Bromodichloromethane	5.597	83	480269	9.68	ppb	99
38) 2-Chloroethyl Vinyl Ether	5.870	63	20960	8.11	ppb	100
39) (cis) 1,3-Dichloropropene	5.995	75	575460	10.34	ppb	99

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

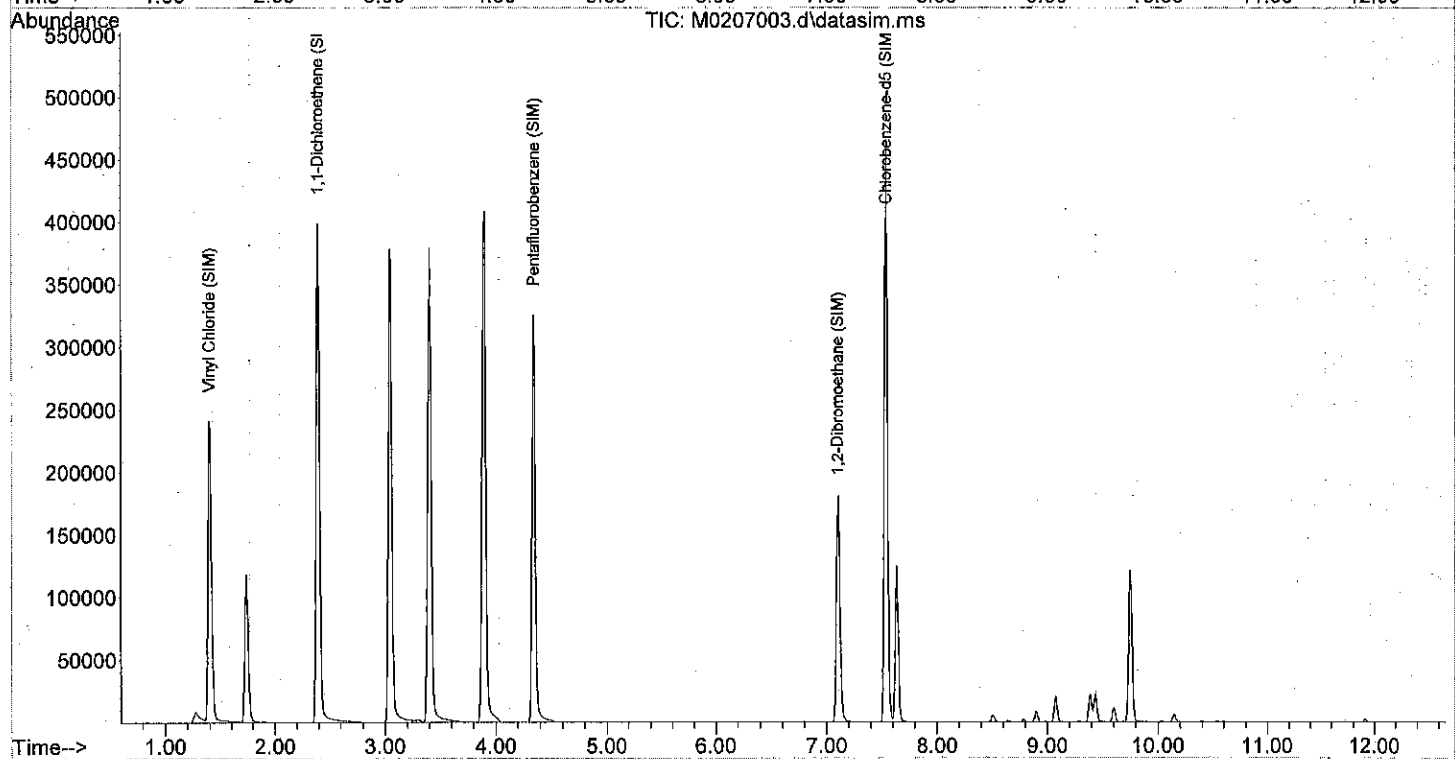
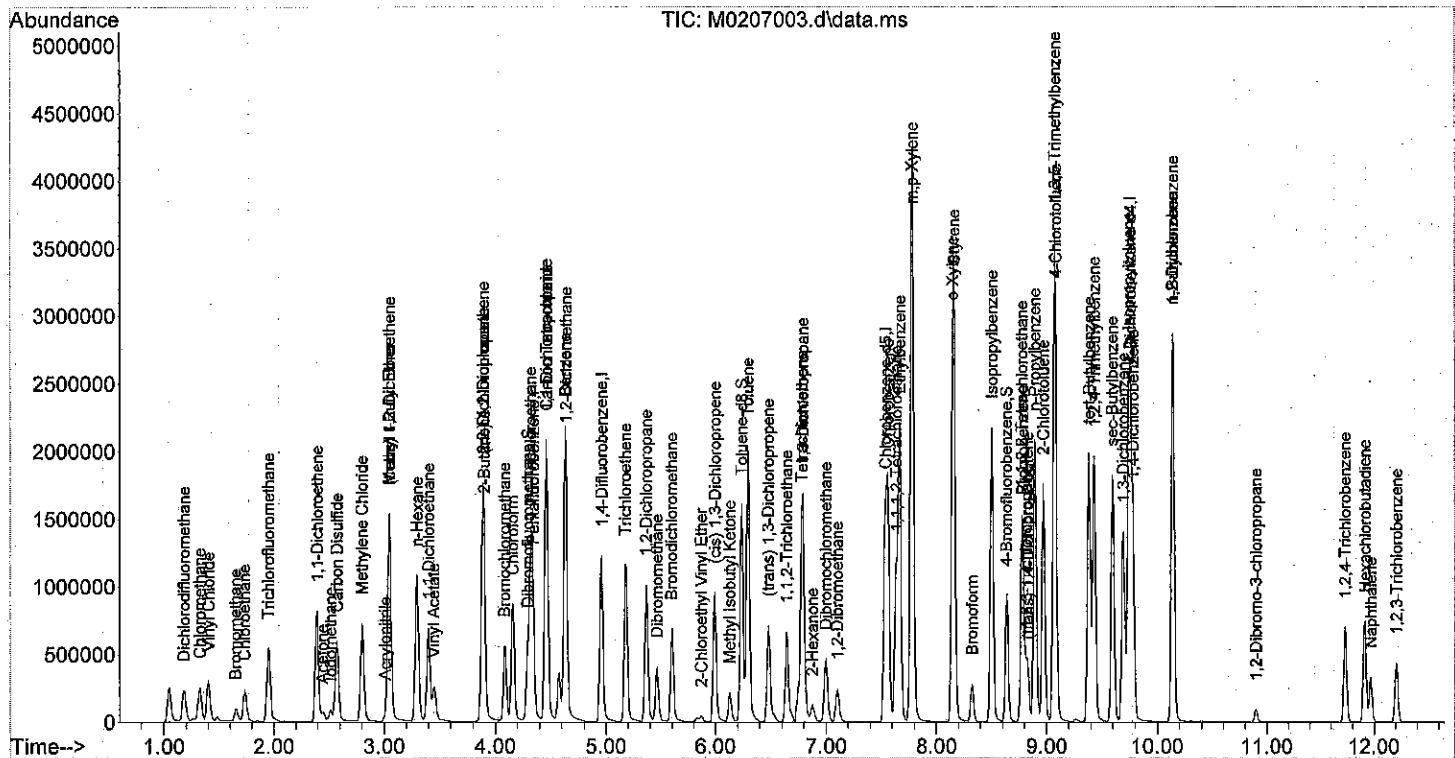
Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
40) Methyl Isobutyl Ketone	6.127	43	167078	8.94	ppb	99
42) Toluene	6.291	91	1628036	9.26	ppb	100
44) (trans) 1,3-Dichloropr...	6.478	75	423560	10.50	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	222665	9.25	ppb	100
46) Tetrachloroethene	6.781	166	494173	8.94	ppb	97
47) 1,3-Dichloropropane	6.791	76	462232	9.78	ppb	99
48) 2-Hexanone	6.876	43	107574	8.63	ppb	97
49) Dibromochloromethane	6.999	129	300602	9.87	ppb	100
50) 1,2-Dibromoethane	7.103	107	209938	10.39	ppb	99
51) Chlorobenzene	7.561	112	977378	9.46	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	340758	9.92	ppb	99
53) Ethylbenzene	7.670	91	1777311	9.39	ppb	99
54) m,p-Xylene	7.779	91	2847464	19.43	ppb	100
55) o-Xylene	8.145	91	1387964	9.63	ppb	100
56) Styrene	8.160	104	1075182	9.71	ppb	100
57) Bromoform	8.324	173	152585	10.08	ppb	100
58) Isopropylbenzene	8.503	105	1694433	9.63	ppb	100
61) 1,2-Dibromoethane (SIM)	7.099	107	213750	10203.48	ppt	100
63) Bromobenzene	8.784	156	384450	9.66	ppb	98
64) 1,1,2,2-Tetrachloroethane	8.776	83	224992	9.82	ppb	99
65) 1,2,3-Trichloropropane	8.815	75	272785	9.30	ppb	# 100
66) (trans) 1,4-Dichloro-2...	8.830	53	64880	10.89	ppb	98
67) n-Propylbenzene	8.893	91	1939367	9.61	ppb	100
68) 2-Chlorotoluene	8.971	126	389581	9.54	ppb	99
69) 4-Chlorotoluene	9.080	126	400866	9.72	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	1338861	9.49	ppb	100
71) tert-Butylbenzene	9.383	119	1290492	9.44	ppb	100
72) 1,2,4-Trimethylbenzene	9.430	105	1323761	9.54	ppb	100
73) sec-Butylbenzene	9.594	105	1542529	9.67	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	687834	9.71	ppb	99
75) p-Isopropyltoluene	9.742	119	1329518	9.56	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	692255	9.60	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	566652	9.77	ppb	100
78) n-Butylbenzene	10.139	91	1143656	9.71	ppb	100
79) 1,2-Dibromo-3-chloropr...	10.902	157	28024	9.44	ppb	98
80) 1,2,4-Trichlorobenzene	11.728	180	258758	10.07	ppb	99
81) Hexachlorobutadiene	11.915	225	174027	9.38	ppb	98
82) Naphthalene	11.970	128	323343	8.49	ppb	99
83) 1,2,3-Trichlorobenzene	12.211	180	166855	9.70	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220207\
 Data File : M0207003.d
 Acq On : 7 Feb 2022 11:01 am
 Operator :
 Sample : SB0207W1 (ICV0207W1)
 Misc : V4-089-13/V4-086-17/V4-089-12/V4-089-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 11:14:45 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Total Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02-2022 February\I220211W1.wszf

Creation Date: 2/11/2022 10:00:20 AM

Comment:

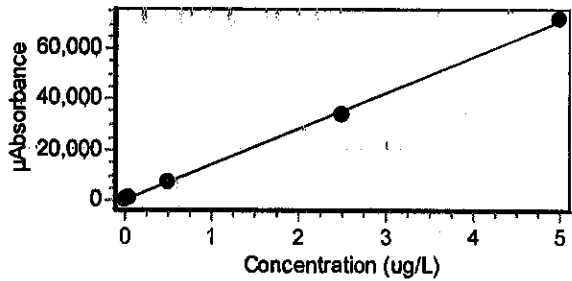
Kom
2-11-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/11/22 12:40:35 pm	0.00000	226	6.38			N/A
Standard #1	STD	02/11/22 12:43:06 pm	0.01000	388	0.21	14.93%		N/A
Standard #2	STD	02/11/22 12:45:38 pm	0.05000	922	0.60	-1.08%		N/A
Standard #3	STD	02/11/22 12:48:10 pm	0.50000	7262	0.26	0.01%		N/A
Standard #4	STD	02/11/22 12:50:43 pm	2.50000	33594	0.56	-5.14%		N/A
Standard #5	STD	02/11/22 12:53:15 pm	5.00000	71482	0.39	1.29%		N/A

Calibration

Equation: Abs = 14070.443x + 226.086
 R2: 0.99890 RSE: 9.17%
 SEE: 1167.3500
 Flags:



ICV	ICV	02/11/22 12:56:42 pm	2.79500	39553	0.21			111.80
ICV	ICV	02/11/22 12:59:27 pm	2.60880	38933	0.38			104.35
ICB	ICB	02/11/22 01:03:32 pm	0.00209	266	27.92			N/A
CCV	CCV	02/11/22 01:06:04 pm	2.50870	35524	0.35			100.35
CCB	CCB	02/11/22 01:08:36 pm	0.00179	251	32.29			N/A
MB0211W1	UNK	02/11/22 01:11:07 pm	0.00353	276	20.65			N/A
SB0211W1	UNK	02/11/22 01:13:39 pm	2.43830	34535	0.50			N/A
02-068-02c	UNK	02/11/22 01:16:11 pm	0.00347	275	15.81			N/A
02-068-02cD	UNK	02/11/22 01:18:43 pm	0.00544	303	21.49			N/A
02-068-02c L	UNK	02/11/22 01:21:15 pm	0.00274	265	20.60			N/A
02-068-02c MS	UNK	02/11/22 01:23:48 pm	2.44500	34629	0.34			N/A
02-068-02c MSD	UNK	02/11/22 01:26:20 pm	2.41150	34157	0.36			N/A
02-068-01c	UNK	02/11/22 01:26:54 pm	0.00168	250	56.10			N/A
02-068-03c	UNK	02/11/22 01:31:25 pm	0.00506	297	12.06			N/A
02-068-04c	UNK	02/11/22 01:33:57 pm	0.00461	291	12.25			N/A
CCV	CCV	02/11/22 01:36:29 pm	2.51340	35590	0.26			100.53
CCB	CCB	02/11/22 01:39:01 pm	0.00336	273	30.05			N/A
02-068-05c	UNK	02/11/22 01:41:33 pm	0.00558	305	6.30			N/A
02-068-06c	UNK	02/11/22 01:44:05 pm	0.00580	308	22.24			N/A
02-092-01c	UNK	02/11/22 01:50:45 pm	0.00674	321	9.06			N/A
02-092-02c	UNK	02/11/22 01:53:18 pm	0.00628	314	16.88			N/A
02-067-06d	UNK	02/11/22 01:55:51 pm	0.03320	693	2.18			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
02-067-07c	UNK	02/11/22 01:58:23 pm	0.01630	455	2.66			N/A
02-023-28e	UNK	02/11/22 02:00:55 pm	0.00469	292	26.85			N/A
CCV	CCV	02/11/22 02:03:27 pm	2.50470	35468	0.25			100.19
CCB	CCB	02/11/22 02:05:59 pm	0.00435	287	19.01			N/A
02-070-02	UNK	02/11/22 02:08:31 pm	0.03453	712	2.08			N/A
02-070-03	UNK	02/11/22 02:11:23 pm	0.02775	617	3.75			N/A
CCB	CCB	02/11/22 02:13:54 pm	0.00369	278	19.74			N/A
CCV	CCV	02/11/22 02:16:26 pm	2.34020	33154	0.16			93.61
CCB	CCB	02/11/22 02:18:58 pm	0.00310	270	17.86			N/A
MB0211D1	UNK	02/11/22 02:34:25 pm	2.40800	34107	0.40			N/A
SB0211D1	UNK	02/11/22 02:37:18 pm	0.00130	244	83.19			N/A
02-068-01d <i>Kpm 2-11-22</i>	UNK	02/11/22 02:43:33 pm	0.00586	309	12.63			N/A
02-068-01d D	UNK	02/11/22 02:46:05 pm	0.00493	296	11.63			N/A
02-068-01d L	UNK	02/11/22 02:46:38 pm	0.00083	238	86.02			N/A
02-068-01d MS	UNK	02/11/22 02:51:10 pm	2.37060	33581	0.32			N/A
02-068-01d MSD	UNK	02/11/22 02:53:43 pm	2.38630	33802	0.47			N/A
02-068-02d	UNK	02/11/22 02:56:16 pm	0.00282	266	41.26			N/A
02-068-03d	UNK	02/11/22 02:58:47 pm	0.00356	276	19.76			N/A
02-068-04d	UNK	02/11/22 03:01:19 pm	0.00295	268	28.60			N/A
CCV	CCV	02/11/22 03:03:51 pm	2.49270	35299	0.24			99.71
CCB	CCB	02/11/22 03:06:23 pm	0.00254	262	4.32			N/A
02-068-05d	UNK	02/11/22 03:10:14 pm	0.00473	293	28.74			N/A
02-068-06d	UNK	02/11/22 03:12:47 pm	0.00499	296	14.70			N/A
02-092-01d	UNK	02/11/22 03:15:19 pm	0.00437	288	12.14			N/A
02-092-02d	UNK	02/11/22 03:17:52 pm	0.00552	304	14.60			N/A
CCV	CCV	02/11/22 03:20:24 pm	2.49250	35296	0.23			99.70
CCB	CCB	02/11/22 03:24:15 pm	0.00363	277	12.47			N/A
MDL 1	UNK	02/11/22 03:26:48 pm	-0.00009	225	781.07			N/A
MDL 2	UNK	02/11/22 03:29:20 pm	-0.00029	222	179.58			N/A
MDL 3	UNK	02/11/22 03:33:29 pm	-0.00025	223	106.67			N/A
MDL 4	UNK	02/11/22 03:36:01 pm	-0.00048	219	72.89			N/A

Dataset Report

2-10-22
15:00m

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220210A\
Report Date/Time: Thursday, February 10, 2022 12:08:11

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - TTorch Alignment		07:31:35 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Torch Alignment.001	
SmartTune - NNebulizer Gas Flow S		07:32:34 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Nebulizer Gas Flow STD-KF	
SmartTune - AAutoLens STD/DRC		07:35:00 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\AutoLens STD-DRC.003	
SmartTune - KKED Mode AutoLens		07:44:58 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\KED Mode AutoLens.004	
SmartTune - CDaily Performance Ch		07:49:47 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Daily Performance Check.01	
SmartTune - CDaily Performance Ch		07:52:14 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Daily Performance Check.01	
SmartTune - MMass Calibration and I		07:54:36 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Mass Calibration and Resol	
SmartTune - MMass Calibration and I		07:56:46 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Mass Calibration and Resol	
	Sample	08:04:52 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Sample.009	
	Sample	08:08:05 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Sample.010	
	Sample	08:13:42 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\Sample.011	
	Blank	08:19:19 Thu	10-FBlank	C:\NexIONData_kmckinney\DataSet\X220210A\Blank.012	
	Standard 1	08:24:06 Thu	10-FStandard #1	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 1.013	
	Standard 2	08:28:52 Thu	10-FStandard #2	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 2.014	
	Standard 3	08:33:39 Thu	10-FStandard #3	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 3.015	
	Standard 4	08:38:26 Thu	10-FStandard #4	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 4.016	
	Standard 5	08:43:13 Thu	10-FStandard #5	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 5.017	
	Standard 6	08:48:00 Thu	10-FStandard #6	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 6.018	
	Standard 7	08:52:48 Thu	10-FStandard #7	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 7.019	
	QC Std 1	09:04:01 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 1.021	
	QC Std 2	09:09:38 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 2.022	
	QC Std 6	09:15:14 Thu	10-FQC Std #6	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.023	
	QC Std 7	09:20:50 Thu	10-FQC Std #7	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.024	
	QC Std 8	09:26:27 Thu	10-FQC Std #8	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.025	
	MB0210WM1 2X	09:32:07 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\MB0210WM1 2X.026	
	SB0210WM1 2X	09:37:44 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\SB0210WM1 2X.027	
	02-092-01c 2X	09:43:20 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01c 2X.028	
	02-092-01cD 2X	09:48:54 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cD 2X.029	
	02-092-01cL 10X	09:54:29 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cL 10X.030	
	02-092-01cMS 2X	10:00:04 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMS 2X.031	
	02-092-01cMSD 2X	10:05:39 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMSD 2X.032	
	02-092-01cPS 2X	10:11:16 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cPS 2X.033	
	02-092-02c 2X	10:16:53 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-02c 2X.034	
	02-068-01c 2X	10:22:29 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-01c 2X.035	
	QC Std 6	10:28:06 Thu	10-FQC Std #6	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.036	
	QC Std 7	10:33:42 Thu	10-FQC Std #7	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.037	
	QC Std 8	10:39:19 Thu	10-FQC Std #8	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.038	
	02-068-02c 2X	10:45:15 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-02c 2X.039	
	02-068-03c 2X	10:50:51 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-03c 2X.040	
	02-068-04c 2X	10:56:27 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-04c 2X.041	
	02-068-05c 2X	11:02:02 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-05c 2X.042	
	02-068-06c 2X	11:07:37 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-06c 2X.043	
	02-067-06d 2X	11:13:12 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-067-06d 2X.044	
	02-067-07d 2X	11:18:47 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-067-07d 2X.045	
	02-023-28e 2X	11:24:21 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\02-023-28e 2X.046	
	QC Std 6	11:36:12 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.048	
	QC Std 7	11:47:56 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.050	
	QC Std 8	11:53:32 Thu	10-FSample	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.051	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, February 10, 2022 08:19:19

Report Date/Time: Thursday, February 10, 2022 12:05:27

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Blank.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381360.5	1.4				ug/L		Standard
|	Cr	52	3452.4	2.3				ug/L		Standard
[	Cr	53	126.3	7.7				ug/L		Standard
[>	Ge	72	219213.6	2.8				ug/L		Standard
|	As	75	2513.3	0.8				ug/L		Standard
|	As-1	75	125.7	10.3				ug/L		Standard
|	Se	77	34.7	23.5				ug/L		Standard
|	Se	78	2970.6	1.0				ug/L		Standard
|	Br	79	172.3	7.2				ug/L		Standard
[	Se	82	85.0	6.2				ug/L		Standard
|	Kr	83	76.0	6.0				ug/L		Standard
|	Y	89	616649.9	2.9				ug/L		Standard
[	Rh	103	500173.2	0.9				ug/L		Standard
|	Cd	111	334.0	8.3				ug/L		Standard
|	Cd	114	22.8	55.1				ug/L		Standard
[>	In	115	346567.2	1.8				ug/L		Standard
[>	Tb	159	442198.2	1.2				ug/L		Standard
|	Ho	165	448954.2	1.3				ug/L		Standard
|	Pb	208	592.7	7.5				ug/L		Standard
|	Bi	209	303890.0	0.7				ug/L		Standard
[	Th	232	414939.3	1.4				ug/L		Standard
|	Cr-1	52	44.0	20.2				ug/L		KED
|	Cr-1	53	6.3	36.5				ug/L		KED
[>	Ge-1	72	5482.7	0.2				ug/L		KED
[	As-2	75	0.0					ug/L		KED
|	Y-1	89	9215.6	1.9				ug/L		KED
|	Rh-1	103	66519.9	2.6				ug/L		KED
[	Cd-1	111	2.0	132.3				ug/L		KED
|	Cd-1	114	3.6	73.6				ug/L		KED
[>	In-1	115	5738.0	3.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
[	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
[	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Thursday, February 10, 2022 12:05:27

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, February 10, 2022 08:24:06

Report Date/Time: Thursday, February 10, 2022 12:05:29

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 1.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	358073.8	0.7				ug/L	381361	Standard
|	Cr	52	5419.7	4.0				ug/L	3452	Standard
|	Cr	53	352.0	5.2				ug/L	126	Standard
>	Ge	72	209384.4	2.8				ug/L	219214	Standard
|	As	75	2679.4	3.6				ug/L	2513	Standard
|	As-1	75	284.3	4.6	0.2000	0.016	7.8	ug/L	126	Standard
|	Se	77	50.3	7.0				ug/L	35	Standard
|	Se	78	3012.3	3.9				ug/L	2971	Standard
|	Br	79	140.0	7.9				ug/L	172	Standard
|	Se	82	98.0	4.1				ug/L	85	Standard
|	Kr	83	81.7	15.6				ug/L	76	Standard
|	Y	89	589753.2	2.2				ug/L	616650	Standard
|	Rh	103	468725.2	0.9				ug/L	500173	Standard
|	Cd	111	800.4	4.1	0.2000	0.014	7.1	ug/L	334	Standard
|	Cd	114	1073.3	3.2	0.2000	0.006	3.1	ug/L	23	Standard
>	In	115	331427.4	1.6				ug/L	346567	Standard
>	Tb	159	411554.5	1.5				ug/L	442198	Standard
|	Ho	165	416672.2	0.9				ug/L	448954	Standard
|	Pb	208	7472.1	0.9	0.2000	0.003	1.4	ug/L	593	Standard
|	Bi	209	290182.6	0.6				ug/L	303890	Standard
|	Th	232	398216.1	0.8				ug/L	414939	Standard
|	Cr-1	52	183.3	8.2				ug/L	44	KED
|	Cr-1	53	27.0	29.4				ug/L	6	KED
>	Ge-1	72	5277.0	1.4				ug/L	5483	KED
|	As-2	75	8.7	43.7	0.2000	0.089	44.6	ug/L	0	KED
|	Y-1	89	8793.0	1.1				ug/L	9216	KED
|	Rh-1	103	63706.4	1.2				ug/L	66520	KED
|	Cd-1	111	22.0	9.1	0.2000	0.017	8.3	ug/L	2	KED
|	Cd-1	114	60.2	30.8	0.2000	0.068	33.8	ug/L	4	KED
>	In-1	115	5508.2	1.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 1

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, February 10, 2022 08:28:52

Report Date/Time: Thursday, February 10, 2022 12:05:30

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 2.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	374464.5	1.9				ug/L	381361	Standard
|	Cr	52	8103.3	2.6	0.5000	0.011	2.2	ug/L	3452	Standard
|	Cr	53	637.3	3.8	0.5000	0.012	2.3	ug/L	126	Standard
>	Ge	72	214058.7	3.0				ug/L	219214	Standard
|	As	75	3012.3	4.6	0.5000	0.107	21.4	ug/L	2513	Standard
|	As-1	75	573.8	7.5	0.5048	0.036	7.0	ug/L	126	Standard
|	Se	77	76.0	9.2	0.5000	0.084	16.7	ug/L	35	Standard
|	Se	78	3196.0	3.4				ug/L	2971	Standard
|	Br	79	135.3	6.8				ug/L	172	Standard
|	Se	82	150.7	2.0	0.5000	0.035	6.9	ug/L	85	Standard
|	Kr	83	89.3	13.0				ug/L	76	Standard
|	Y	89	600431.8	1.3				ug/L	616650	Standard
|	Rh	103	490604.9	1.3				ug/L	500173	Standard
|	Cd	111	1448.2	5.1	0.4950	0.029	5.8	ug/L	334	Standard
|	Cd	114	2678.0	0.9	0.5003	0.002	0.4	ug/L	23	Standard
>	In	115	333247.1	1.1				ug/L	346567	Standard
>	Tb	159	416232.5	1.5				ug/L	442198	Standard
|	Ho	165	425739.0	1.2				ug/L	448954	Standard
|	Pb	208	17337.8	1.4	0.4971	0.001	0.2	ug/L	593	Standard
|	Bi	209	291673.0	1.1				ug/L	303890	Standard
|	Th	232	402049.1	1.1				ug/L	414939	Standard
|	Cr-1	52	332.3	2.5	0.5000	0.009	1.9	ug/L	44	KED
|	Cr-1	53	42.3	14.2	0.5000	0.084	16.8	ug/L	6	KED
>	Ge-1	72	5402.7	0.8				ug/L	5483	KED
|	As-2	75	16.7	15.1	0.4780	0.075	15.8	ug/L	0	KED
|	Y-1	89	9059.5	1.9				ug/L	9216	KED
|	Rh-1	103	65351.2	1.3				ug/L	66520	KED
|	Cd-1	111	57.7	10.6	0.5057	0.055	11.0	ug/L	2	KED
|	Cd-1	114	154.6	3.4	0.5028	0.017	3.4	ug/L	4	KED
>	In-1	115	5620.9	0.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: Standard 2

Report Date/Time: Thursday, February 10, 2022 12:05:30

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, February 10, 2022 08:33:39
 Report Date/Time: Thursday, February 10, 2022 12:05:32
 Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 3.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	380566.5	2.9				ug/L	381361	Standard
|	Cr	52	22027.0	3.1	1.9964	0.023	1.2	ug/L	3452	Standard
|	Cr	53	2256.5	5.6	2.0024	0.059	3.0	ug/L	126	Standard
>	Ge	72	221859.5	3.8				ug/L	219214	Standard
|	As	75	4418.0	3.2	1.9728	0.058	2.9	ug/L	2513	Standard
|	As-1	75	2155.2	5.5	2.0118	0.037	1.8	ug/L	126	Standard
|	Se	77	202.7	5.2	1.9949	0.057	2.8	ug/L	35	Standard
|	Se	78	3576.4	2.3	2.0000	0.226	11.3	ug/L	2971	Standard
|	Br	79	139.7	5.6				ug/L	172	Standard
|	Se	82	380.3	7.0	2.0053	0.101	5.0	ug/L	85	Standard
|	Kr	83	84.3	8.4				ug/L	76	Standard
|	Y	89	608116.5	2.1				ug/L	616650	Standard
|	Rh	103	491979.4	1.7				ug/L	500173	Standard
|	Cd	111	4741.9	2.3	1.9906	0.048	2.4	ug/L	334	Standard
|	Cd	114	10669.8	0.5	1.9955	0.011	0.6	ug/L	23	Standard
>	In	115	345246.1	0.2				ug/L	346567	Standard
>	Tb	159	422967.4	0.6				ug/L	442198	Standard
|	Ho	165	427463.4	1.8				ug/L	448954	Standard
|	Pb	208	69324.6	1.2	2.0003	0.016	0.8	ug/L	593	Standard
|	Bi	209	299514.1	1.1				ug/L	303890	Standard
|	Th	232	407970.1	1.1				ug/L	414939	Standard
|	Cr-1	52	1265.7	7.2	2.0035	0.105	5.2	ug/L	44	KED
|	Cr-1	53	162.7	6.6	2.0063	0.124	6.2	ug/L	6	KED
>	Ge-1	72	5537.7	3.4				ug/L	5483	KED
|	As-2	75	54.7	9.2	1.9592	0.178	9.1	ug/L	0	KED
|	Y-1	89	9220.3	2.2				ug/L	9216	KED
|	Rh-1	103	67599.6	2.1				ug/L	66520	KED
|	Cd-1	111	256.3	5.3	2.0130	0.098	4.9	ug/L	2	KED
|	Cd-1	114	662.7	2.7	2.0065	0.066	3.3	ug/L	4	KED
>	In-1	115	5866.7	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Thursday, February 10, 2022 08:38:26

Report Date/Time: Thursday, February 10, 2022 12:05:34

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 4.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	365874.3	1.5				ug/L	381361	Standard
|	Cr	52	47015.6	2.3	4.9827	0.051	1.0	ug/L	3452	Standard
|	Cr	53	5002.9	1.7	4.9661	0.097	2.0	ug/L	126	Standard
>	Ge	72	212429.6	1.4				ug/L	219214	Standard
|	As	75	7054.6	3.3	5.0106	0.147	2.9	ug/L	2513	Standard
|	As-1	75	4916.1	2.1	4.9954	0.038	0.8	ug/L	126	Standard
|	Se	77	404.7	3.2	4.9400	0.153	3.1	ug/L	35	Standard
|	Se	78	4447.0	2.8	5.0894	0.203	4.0	ug/L	2971	Standard
|	Br	79	117.3	11.3				ug/L	172	Standard
|	Se	82	779.7	1.8	4.9953	0.161	3.2	ug/L	85	Standard
|	Kr	83	92.7	2.7				ug/L	76	Standard
|	Y	89	581059.9	1.4				ug/L	616650	Standard
|	Rh	103	469019.9	1.2				ug/L	500173	Standard
|	Cd	111	10647.4	0.5	4.9967	0.031	0.6	ug/L	334	Standard
|	Cd	114	25226.0	0.4	5.0057	0.037	0.7	ug/L	23	Standard
>	In	115	323669.3	0.4				ug/L	346567	Standard
>	Tb	159	401105.1	0.5				ug/L	442198	Standard
|	Ho	165	406917.7	0.1				ug/L	448954	Standard
|	Pb	208	165074.7	0.3	5.0069	0.030	0.6	ug/L	593	Standard
|	Bi	209	280805.7	0.7				ug/L	303890	Standard
|	Th	232	378651.9	0.9				ug/L	414939	Standard
|	Cr-1	52	2850.0	3.3	4.9911	0.116	2.3	ug/L	44	KED
|	Cr-1	53	350.7	5.0	4.9606	0.202	4.1	ug/L	6	KED
>	Ge-1	72	5166.9	1.3				ug/L	5483	KED
|	As-2	75	154.3	4.6	5.1171	0.243	4.8	ug/L	0	KED
|	Y-1	89	8660.0	3.6				ug/L	9216	KED
|	Rh-1	103	62948.4	1.7				ug/L	66520	KED
|	Cd-1	111	563.3	6.0	4.9581	0.402	8.1	ug/L	2	KED
|	Cd-1	114	1486.9	3.4	4.9692	0.123	2.5	ug/L	4	KED
>	In-1	115	5522.5	2.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Thursday, February 10, 2022 12:05:34

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Thursday, February 10, 2022 08:43:13

Report Date/Time: Thursday, February 10, 2022 12:05:36

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 5.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	374014.0	2.8				ug/L	381361	Standard
|	Cr	52	171254.6	2.8	19.9076	0.204	1.0	ug/L	3452	Standard
|	Cr	53	19360.5	5.1	19.9385	0.455	2.3	ug/L	126	Standard
[>	Ge	72	215271.5	2.4				ug/L	219214	Standard
|	As	75	20295.4	3.9	19.9347	0.346	1.7	ug/L	2513	Standard
|	As-1	75	19255.7	3.2	19.9772	0.183	0.9	ug/L	126	Standard
|	Se	77	1494.4	3.6	19.9420	0.242	1.2	ug/L	35	Standard
|	Se	78	8363.4	3.6	19.8037	0.441	2.2	ug/L	2971	Standard
|	Br	79	128.0	4.9				ug/L	172	Standard
|	Se	82	2821.6	1.8	19.9547	0.396	2.0	ug/L	85	Standard
|	Kr	83	83.7	14.5				ug/L	76	Standard
|	Y	89	588178.8	1.7				ug/L	616650	Standard
[	Rh	103	475796.7	2.2				ug/L	500173	Standard
|	Cd	111	40713.4	1.6	19.9464	0.310	1.6	ug/L	334	Standard
|	Cd	114	98331.7	0.6	19.9461	0.350	1.8	ug/L	23	Standard
[>	In	115	328554.7	1.9				ug/L	346567	Standard
[>	Tb	159	405533.0	1.8				ug/L	442198	Standard
|	Ho	165	413021.1	1.3				ug/L	448954	Standard
|	Pb	208	634420.3	2.1	19.9342	0.063	0.3	ug/L	593	Standard
|	Bi	209	288089.6	1.5				ug/L	303890	Standard
|	Th	232	392037.6	1.5				ug/L	414939	Standard
|	Cr-1	52	11292.1	1.3	19.9346	0.199	1.0	ug/L	44	KED
|	Cr-1	53	1346.4	1.7	19.8830	0.241	1.2	ug/L	6	KED
[>	Ge-1	72	5414.0	0.7				ug/L	5483	KED
|	As-2	75	572.0	1.2	19.8576	0.195	1.0	ug/L	0	KED
|	Y-1	89	9313.7	1.9				ug/L	9216	KED
|	Rh-1	103	65551.7	0.9				ug/L	66520	KED
|	Cd-1	111	2276.8	3.7	19.9386	0.646	3.2	ug/L	2	KED
|	Cd-1	114	5966.9	2.7	19.9323	0.590	3.0	ug/L	4	KED
[>	In-1	115	5790.7	0.6				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

|	Cd	114
|	In	115
|	Tb	159
|	Ho	165
|	Pb	208
|	Bi	209
|	Th	232
|	Cr-1	52
|	Cr-1	53
|	Ge-1	72
|	As-2	75
|	Y-1	89
|	Rh-1	103
|	Cd-1	111
|	Cd-1	114
|	In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Thursday, February 10, 2022 08:48:00

Report Date/Time: Thursday, February 10, 2022 12:05:38

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 6.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	366797.9	1.1				ug/L	381361	Standard
|	Cr	52	332179.3	1.6	39.9497	0.232	0.6	ug/L	3452	Standard
|	Cr	53	37609.4	1.1	39.9227	0.035	0.1	ug/L	126	Standard
>	Ge	72	213031.1	1.1				ug/L	219214	Standard
|	As	75	36927.5	1.8	39.7792	0.498	1.3	ug/L	2513	Standard
|	As-1	75	37342.0	1.4	39.8449	0.324	0.8	ug/L	126	Standard
|	Se	77	2837.9	3.1	39.7176	0.886	2.2	ug/L	35	Standard
|	Se	78	13160.1	2.7	39.5026	0.794	2.0	ug/L	2971	Standard
|	Br	79	122.0	4.3				ug/L	172	Standard
|	Se	82	5371.7	1.9	39.7711	0.481	1.2	ug/L	85	Standard
|	Kr	83	93.0	6.7				ug/L	76	Standard
|	Y	89	580800.5	2.7				ug/L	616650	Standard
|	Rh	103	467346.9	1.0				ug/L	500173	Standard
|	Cd	111	78341.2	1.0	39.8416	0.624	1.6	ug/L	334	Standard
|	Cd	114	191275.2	1.6	39.9005	0.184	0.5	ug/L	23	Standard
>	In	115	322434.1	2.0				ug/L	346567	Standard
>	Tb	159	398788.5	1.9				ug/L	442198	Standard
|	Ho	165	402417.8	2.3				ug/L	448954	Standard
|	Pb	208	1235287.0	1.5	39.8915	0.481	1.2	ug/L	593	Standard
|	Bi	209	281995.7	1.9				ug/L	303890	Standard
|	Th	232	385219.8	2.5				ug/L	414939	Standard
|	Cr-1	52	21915.1	0.6	39.7969	1.126	2.8	ug/L	44	KED
|	Cr-1	53	2572.2	1.8	39.6394	0.400	1.0	ug/L	6	KED
>	Ge-1	72	5375.7	2.8				ug/L	5483	KED
|	As-2	75	1138.4	4.9	39.9545	0.837	2.1	ug/L	0	KED
|	Y-1	89	8861.7	2.1				ug/L	9216	KED
|	Rh-1	103	64935.6	1.6				ug/L	66520	KED
|	Cd-1	111	4461.0	2.7	39.7497	1.159	2.9	ug/L	2	KED
|	Cd-1	114	11650.7	1.0	39.7148	0.523	1.3	ug/L	4	KED
>	In-1	115	5828.0	2.3				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: Standard 6

Report Date/Time: Thursday, February 10, 2022 12:05:38

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Thursday, February 10, 2022 08:52:48

Report Date/Time: Thursday, February 10, 2022 12:05:40

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 7.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	376580.4	1.7				ug/L	381361	Standard
|	Cr	52	841460.2	2.4	99.8576	1.317	1.3	ug/L	3452	Standard
|	Cr	53	96199.0	2.8	99.9412	1.882	1.9	ug/L	126	Standard
>	Ge	72	220461.6	3.7				ug/L	219214	Standard
|	As	75	91115.3	2.9	99.7894	0.846	0.8	ug/L	2513	Standard
|	As-1	75	96054.4	2.4	99.8753	1.552	1.6	ug/L	126	Standard
|	Se	77	7321.5	5.0	99.9509	1.883	1.9	ug/L	35	Standard
|	Se	78	28658.4	2.3	99.2010	2.452	2.5	ug/L	2971	Standard
|	Br	79	130.0	3.8				ug/L	172	Standard
|	Se	82	13532.1	0.1	99.6206	3.574	3.6	ug/L	85	Standard
|	Kr	83	106.7	8.0				ug/L	76	Standard
|	Y	89	601769.4	1.7				ug/L	616650	Standard
|	Rh	103	478017.9	1.4				ug/L	500173	Standard
|	Cd	111	196506.0	0.8	99.6862	0.755	0.8	ug/L	334	Standard
|	Cd	114	477089.6	0.7	99.5777	0.135	0.1	ug/L	23	Standard
>	In	115	328963.7	0.7				ug/L	346567	Standard
>	Tb	159	405771.0	1.6				ug/L	442198	Standard
|	Ho	165	412608.9	0.5				ug/L	448954	Standard
|	Pb	208	3115549.2	0.4	99.8144	1.360	1.4	ug/L	593	Standard
|	Bi	209	288652.9	1.0				ug/L	303890	Standard
|	Th	232	397423.3	0.3				ug/L	414939	Standard
|	Cr-1	52	54921.1	1.7	99.3503	1.712	1.7	ug/L	44	KED
|	Cr-1	53	6624.5	1.4	99.7608	1.183	1.2	ug/L	6	KED
>	Ge-1	72	5573.1	1.2				ug/L	5483	KED
|	As-2	75	2816.6	0.9	99.1922	0.601	0.6	ug/L	0	KED
|	Y-1	89	9100.2	2.7				ug/L	9216	KED
|	Rh-1	103	66337.3	0.9				ug/L	66520	KED
|	Cd-1	111	11302.5	2.0	100.2327	2.184	2.2	ug/L	2	KED
|	Cd-1	114	29597.8	0.7	100.2616	1.134	1.1	ug/L	4	KED
>	In-1	115	5789.3	0.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 7

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, February 10, 2022 09:04:01

Report Date/Time: Thursday, February 10, 2022 12:05:42

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 1.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	418100.8	3.8				ug/L	381361	Standard
|	Cr	52	478069.0	2.5	50.9219	0.785	1.5	ug/L	3452	Standard
|	Cr	53	54267.4	5.8	50.6962	1.300	2.6	ug/L	126	Standard
>	Ge	72	242850.1	3.8				ug/L	219214	Standard
|	As	75	52421.5	4.6	50.7405	0.737	1.5	ug/L	2513	Standard
|	As-1	75	53358.4	3.7	50.2876	0.536	1.1	ug/L	126	Standard
|	Se	77	4138.9	3.8	51.0808	0.847	1.7	ug/L	35	Standard
|	Se	78	17494.4	3.8	49.8046	0.333	0.7	ug/L	2971	Standard
|	Br	79	155.0	6.2				ug/L	172	Standard
|	Se	82	7316.2	0.8	48.5690	1.524	3.1	ug/L	85	Standard
|	Kr	83	104.3	10.9				ug/L	76	Standard
|	Y	89	654084.3	3.5				ug/L	616650	Standard
|	Rh	103	519888.3	2.7				ug/L	500173	Standard
|	Cd	111	108476.2	1.7	50.9565	0.541	1.1	ug/L	334	Standard
|	Cd	114	263112.9	1.8	50.9275	0.289	0.6	ug/L	23	Standard
>	In	115	354710.6	1.5				ug/L	346567	Standard
>	Tb	159	440142.6	2.3				ug/L	442198	Standard
|	Ho	165	449031.8	2.1				ug/L	448954	Standard
|	Pb	208	1702867.1	1.7	50.2850	0.407	0.8	ug/L	593	Standard
|	Bi	209	307652.0	1.6				ug/L	303890	Standard
|	Th	232	425827.5	1.1				ug/L	414939	Standard
|	Cr-1	52	30389.6	1.0	49.6457	1.160	2.3	ug/L	44	KED
|	Cr-1	53	3679.1	1.3	50.0242	0.917	1.8	ug/L	6	KED
>	Ge-1	72	6168.7	3.0				ug/L	5483	KED
|	As-2	75	1541.1	0.7	49.0682	1.851	3.8	ug/L	0	KED
|	Y-1	89	10068.5	1.1				ug/L	9216	KED
|	Rh-1	103	71908.2	0.7				ug/L	66520	KED
|	Cd-1	111	6410.8	1.7	50.7203	0.449	0.9	ug/L	2	KED
|	Cd-1	114	16682.9	1.4	50.4214	0.173	0.3	ug/L	4	KED
>	In-1	115	6487.6	1.2				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.634
|	Cr	52		
|	Cr	53		
>	Ge	72		110.782
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 1

Report Date/Time: Thursday, February 10, 2022 12:05:42

Cd	114	
In	115	102.350
Tb	159	99.535
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	112.511
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	113.065

Quantitative Analysis - Summary Report

Sample ID: Qc Std 2

Sample Date/Time: Thursday, February 10, 2022 09:09:38

Report Date/Time: Thursday, February 10, 2022 12:05:44

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Qc Std 2.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	394100.9	2.3				ug/L	381361	Standard
|	Cr	52	3700.5	3.1	0.0154	0.020	129.0	ug/L	3452	Standard
|	Cr	53	123.7	8.9	-0.0067	0.014	203.8	ug/L	126	Standard
>	Ge	72	232495.2	1.5				ug/L	219214	Standard
|	As	75	2700.4	1.2	0.0373	0.028	74.8	ug/L	2513	Standard
|	As-1	75	113.3	23.6	-0.0194	0.028	144.2	ug/L	126	Standard
|	Se	77	48.7	22.5	0.1562	0.152	97.4	ug/L	35	Standard
|	Se	78	3184.7	1.6	0.1249	0.077	61.6	ug/L	2971	Standard
|	Br	79	122.7	11.4				ug/L	172	Standard
|	Se	82	78.7	7.7	-0.0801	0.051	63.1	ug/L	85	Standard
|	Kr	83	90.3	8.5				ug/L	76	Standard
|	Y	89	621600.5	1.0				ug/L	616650	Standard
|	Rh	103	498080.1	0.7				ug/L	500173	Standard
|	Cd	111	363.4	5.3	0.0190	0.010	54.6	ug/L	334	Standard
|	Cd	114	20.4	28.5	-0.0004	0.001	333.2	ug/L	23	Standard
>	In	115	337310.4	1.5				ug/L	346567	Standard
>	Tb	159	416323.2	1.8				ug/L	442198	Standard
|	Ho	165	420199.6	0.1				ug/L	448954	Standard
|	Pb	208	598.0	2.9	0.0013	0.001	65.9	ug/L	593	Standard
|	Bi	209	291696.8	1.7				ug/L	303890	Standard
|	Th	232	398567.2	2.2				ug/L	414939	Standard
|	Cr-1	52	38.0	7.0	-0.0152	0.005	31.5	ug/L	44	KED
|	Cr-1	53	4.3	13.3	-0.0346	0.008	22.2	ug/L	6	KED
>	Ge-1	72	5828.2	0.9				ug/L	5483	KED
|	As-2	75	2.0	50.0	0.0673	0.034	50.2	ug/L	0	KED
|	Y-1	89	9675.6	1.0				ug/L	9216	KED
|	Rh-1	103	69944.8	1.6				ug/L	66520	KED
|	Cd-1	111	0.7	86.6	-0.0125	0.005	37.6	ug/L	2	KED
|	Cd-1	114	3.6	73.6	-0.0011	0.008	773.6	ug/L	4	KED
>	In-1	115	6365.6	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		103.341
|	Cr	52		
|	Cr	53		
>	Ge	72		106.059
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Qc Std 2

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—	Cd	114	
└>	In	115	97.329
└>	Tb	159	94.149
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
└>	Ge-1	72	106.301
└>	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
└>	In-1	115	110.938

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 10, 2022 09:15:14

Report Date/Time: Thursday, February 10, 2022 12:05:46

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	381682.0	3.2				ug/L	381361	Standard
|	Cr	52	343554.8	3.9	39.9811	0.675	1.7	ug/L	3452	Standard
|	Cr	53	39038.0	3.4	39.9371	0.114	0.3	ug/L	126	Standard
>	Ge	72	223132.0	3.3				ug/L	219214	Standard
|	As	75	38994.7	2.5	40.5527	0.351	0.9	ug/L	2513	Standard
|	As-1	75	39192.4	2.5	40.1800	0.500	1.2	ug/L	126	Standard
|	Se	77	3026.0	6.6	40.5171	1.508	3.7	ug/L	35	Standard
|	Se	78	13772.6	1.0	41.0513	1.429	3.5	ug/L	2971	Standard
|	Br	79	121.7	13.2				ug/L	172	Standard
|	Se	82	5514.4	1.9	39.7235	1.402	3.5	ug/L	85	Standard
|	Kr	83	94.0	4.9				ug/L	76	Standard
|	Y	89	592376.3	2.3				ug/L	616650	Standard
|	Rh	103	470412.0	1.7				ug/L	500173	Standard
|	Cd	111	78539.2	0.2	40.7341	0.760	1.9	ug/L	334	Standard
|	Cd	114	190686.5	1.4	40.7767	0.198	0.5	ug/L	23	Standard
>	In	115	321081.4	1.9				ug/L	346567	Standard
>	Tb	159	395343.5	1.1				ug/L	442198	Standard
|	Ho	165	402024.2	0.7				ug/L	448954	Standard
|	Pb	208	1225160.5	0.8	40.2712	0.167	0.4	ug/L	593	Standard
|	Bi	209	280553.4	0.4				ug/L	303890	Standard
|	Th	232	383232.8	0.6				ug/L	414939	Standard
|	Cr-1	52	21947.2	1.3	38.5193	0.738	1.9	ug/L	44	KED
|	Cr-1	53	2602.2	2.6	38.0027	0.602	1.6	ug/L	6	KED
>	Ge-1	72	5737.2	1.2				ug/L	5483	KED
|	As-2	75	1184.0	2.2	40.5078	0.956	2.4	ug/L	0	KED
|	Y-1	89	9217.3	0.8				ug/L	9216	KED
|	Rh-1	103	67161.8	0.8				ug/L	66520	KED
|	Cd-1	111	4719.4	2.2	39.7168	0.829	2.1	ug/L	2	KED
|	Cd-1	114	12210.4	0.6	39.2552	0.207	0.5	ug/L	4	KED
>	In-1	115	6098.7	0.9				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.084
|	Cr	52	99.953	
|	Cr	53	99.843	
>	Ge	72		101.787
|	As	75	101.382	
|	As-1	75	100.450	
|	Se	77	101.293	
	Se	78	102.628	
	Br	79		
	Se	82	99.309	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	101.835	

Sample ID: QC Std 6

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Cd	114	101.942	
In	115		92.646
Tb	159		89.404
Ho	165		
Pb	208	100.678	
Bi	209		
Th	232		
Cr-1	52	96.298	
Cr-1	53	95.007	
Ge-1	72		104.641
As-2	75	101.270	
Y-1	89		
Rh-1	103		
Cd-1	111	99.292	
Cd-1	114	98.138	
In-1	115		106.288

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 10, 2022 09:20:50

Report Date/Time: Thursday, February 10, 2022 12:05:48

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	382689.9	2.2				ug/L	381361	Standard
|	Cr	52	174998.5	4.0	20.1090	0.437	2.2	ug/L	3452	Standard
|	Cr	53	19628.2	3.9	19.9604	0.499	2.5	ug/L	126	Standard
[>	Ge	72	219644.0	3.5				ug/L	219214	Standard
|	As	75	20632.8	4.1	20.4740	0.199	1.0	ug/L	2513	Standard
|	As-1	75	19426.2	3.2	20.1638	0.110	0.5	ug/L	126	Standard
|	Se	77	1546.4	5.1	20.8282	1.130	5.4	ug/L	35	Standard
|	Se	78	8465.5	4.7	21.2737	0.673	3.2	ug/L	2971	Standard
|	Br	79	109.7	13.8				ug/L	172	Standard
|	Se	82	2785.9	2.1	20.0746	0.468	2.3	ug/L	85	Standard
|	Kr	83	91.0	3.8				ug/L	76	Standard
|	Y	89	595009.4	1.7				ug/L	616650	Standard
|	Rh	103	468456.6	1.9				ug/L	500173	Standard
|	Cd	111	39739.3	1.1	20.6749	0.229	1.1	ug/L	334	Standard
|	Cd	114	95879.0	1.5	20.6453	0.102	0.5	ug/L	23	Standard
[>	In	115	318823.2	1.7				ug/L	346567	Standard
[>	Tb	159	394294.0	1.0				ug/L	442198	Standard
|	Ho	165	401928.4	1.7				ug/L	448954	Standard
|	Pb	208	614517.1	0.9	20.2441	0.088	0.4	ug/L	593	Standard
|	Bi	209	275845.0	1.2				ug/L	303890	Standard
|	Th	232	385050.2	2.0				ug/L	414939	Standard
|	Cr-1	52	10890.1	1.3	19.4025	0.057	0.3	ug/L	44	KED
|	Cr-1	53	1274.1	2.3	18.8894	0.747	4.0	ug/L	6	KED
[>	Ge-1	72	5639.4	1.6				ug/L	5483	KED
|	As-2	75	595.7	2.9	20.7279	0.320	1.5	ug/L	0	KED
|	Y-1	89	9201.6	1.8				ug/L	9216	KED
|	Rh-1	103	66106.6	0.7				ug/L	66520	KED
|	Cd-1	111	2368.2	1.3	20.4231	0.447	2.2	ug/L	2	KED
|	Cd-1	114	6126.3	0.4	20.1847	0.294	1.5	ug/L	4	KED
[>	In-1	115	5949.7	1.2				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		100.349
|	Cr	52	100.545	
|	Cr	53	99.802	
[>	Ge	72		100.196
|	As	75	102.370	
|	As-1	75	100.819	
|	Se	77	104.141	
	Se	78	106.368	
	Br	79		
	Se	82	100.373	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	103.375	

Sample ID: QC Std 7

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Cd	114	103.227	
In	115		91.995
Tb	159		89.167
Ho	165		
Pb	208	101.221	
Bi	209		
Th	232		
Cr-1	52	97.013	
Cr-1	53	94.447	
Ge-1	72		102.859
As-2	75	103.640	
Y-1	89		
Rh-1	103		
Cd-1	111	102.116	
Cd-1	114	100.923	
In-1	115		103.691

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 10, 2022 09:26:27

Report Date/Time: Thursday, February 10, 2022 12:05:49

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	405266.0	1.0				ug/L	381361	Standard
|	Cr	52	3762.2	2.3	0.0103	0.009	88.9	ug/L	3452	Standard
|	Cr	53	145.7	6.7	0.0111	0.011	96.7	ug/L	126	Standard
>	Ge	72	235335.4	2.0				ug/L	219214	Standard
|	As	75	2759.7	2.7	0.0647	0.019	29.1	ug/L	2513	Standard
|	As-1	75	108.6	25.8	-0.0259	0.026	98.9	ug/L	126	Standard
|	Se	77	48.7	8.3	0.1480	0.064	43.4	ug/L	35	Standard
|	Se	78	3270.4	2.2	0.2937	0.027	9.2	ug/L	2971	Standard
|	Br	79	123.0	19.6				ug/L	172	Standard
|	Se	82	83.3	10.8	-0.0554	0.055	98.6	ug/L	85	Standard
|	Kr	83	105.0	1.0				ug/L	76	Standard
|	Y	89	632744.4	2.0				ug/L	616650	Standard
|	Rh	103	503865.1	1.1				ug/L	500173	Standard
|	Cd	111	360.0	6.1	0.0164	0.011	69.3	ug/L	334	Standard
|	Cd	114	24.3	26.6	0.0004	0.001	331.3	ug/L	23	Standard
>	In	115	338982.1	0.9				ug/L	346567	Standard
>	Tb	159	416297.2	0.1				ug/L	442198	Standard
|	Ho	165	421611.4	1.0				ug/L	448954	Standard
|	Pb	208	528.3	3.7	-0.0009	0.001	64.4	ug/L	593	Standard
|	Bi	209	292034.5	0.5				ug/L	303890	Standard
|	Th	232	399333.1	0.3				ug/L	414939	Standard
|	Cr-1	52	35.3	33.0	-0.0211	0.019	89.0	ug/L	44	KED
|	Cr-1	53	5.3	47.2	-0.0216	0.035	162.1	ug/L	6	KED
>	Ge-1	72	5932.6	2.5				ug/L	5483	KED
|	As-2	75	0.7	86.6	0.0217	0.019	86.6	ug/L	0	KED
|	Y-1	89	9808.7	1.2				ug/L	9216	KED
|	Rh-1	103	70924.0	1.1				ug/L	66520	KED
|	Cd-1	111	2.7	21.7	0.0035	0.005	137.6	ug/L	2	KED
|	Cd-1	114	2.6	35.2	-0.0042	0.003	69.2	ug/L	4	KED
>	In-1	115	6400.2	1.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		106.268
|	Cr	52		
|	Cr	53		
>	Ge	72		107.354
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	97.811
Tb	159	94.143
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	108.205
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	111.542

Quantitative Analysis - Summary Report

Sample ID: MB0210WM1 2X

Sample Date/Time: Thursday, February 10, 2022 09:32:07

Report Date/Time: Thursday, February 10, 2022 12:05:51

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\MB0210WM1 2X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	376114.5	3.8				ug/L	381361	Standard
|	Cr	52	3845.9	4.0	0.0527	0.013	24.8	ug/L	3452	Standard
|	Cr	53	142.3	5.5	0.0184	0.004	20.6	ug/L	126	Standard
>	Ge	72	217804.3	5.7				ug/L	219214	Standard
|	As	75	2716.9	3.1	0.2534	0.076	30.2	ug/L	2513	Standard
|	As-1	75	76.8	15.8	-0.0505	0.014	26.8	ug/L	126	Standard
|	Se	77	42.7	25.1	0.1173	0.165	140.2	ug/L	35	Standard
|	Se	78	3239.0	3.9	1.1324	0.231	20.4	ug/L	2971	Standard
|	Br	79	108.3	14.1				ug/L	172	Standard
|	Se	82	76.0	14.8	-0.0652	0.051	78.4	ug/L	85	Standard
|	Kr	83	114.0	1.5				ug/L	76	Standard
|	Y	89	578047.3	3.1				ug/L	616650	Standard
|	Rh	103	462885.7	3.0				ug/L	500173	Standard
|	Cd	111	340.8	7.6	0.0225	0.011	49.0	ug/L	334	Standard
|	Cd	114	18.7	14.7	-0.0004	0.001	138.7	ug/L	23	Standard
>	In	115	309976.9	1.8				ug/L	346567	Standard
>	Tb	159	384514.5	1.5				ug/L	442198	Standard
|	Ho	165	382718.5	2.0				ug/L	448954	Standard
|	Pb	208	339.7	4.0	-0.0059	0.000	7.0	ug/L	593	Standard
|	Bi	209	266950.1	1.5				ug/L	303890	Standard
|	Th	232	370017.5	2.0				ug/L	414939	Standard
|	Cr-1	52	49.7	12.8	0.0097	0.012	119.4	ug/L	44	KED
|	Cr-1	53	7.3	20.8	0.0144	0.023	161.8	ug/L	6	KED
>	Ge-1	72	5528.4	0.6				ug/L	5483	KED
|	As-2	75	0.0		0.0000	0.000		ug/L	0	KED
|	Y-1	89	9171.3	1.2				ug/L	9216	KED
|	Rh-1	103	66084.2	0.9				ug/L	66520	KED
|	Cd-1	111	1.0	100.0	-0.0095	0.008	89.2	ug/L	2	KED
|	Cd-1	114	1.9	129.5	-0.0059	0.008	137.4	ug/L	4	KED
>	In-1	115	6122.5	1.0				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.624
|	Cr	52		
|	Cr	53		
>	Ge	72		99.357
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: MB0210WM1 2X

Report Date/Time: Thursday, February 10, 2022 12:05:51

Cd	114	
In	115	89.442
Tb	159	86.955
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.833
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	106.701

Quantitative Analysis - Summary Report

Sample ID: SB0210WM1 2X

Sample Date/Time: Thursday, February 10, 2022 09:37:44

Report Date/Time: Thursday, February 10, 2022 12:05:53

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\SB0210WM1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	374033.1	1.9				ug/L	381361	Standard
|	Cr	52	443228.5	2.7	52.7649	0.664	1.3	ug/L	3452	Standard
|	Cr	53	50743.0	3.1	53.0117	0.880	1.7	ug/L	126	Standard
>	Ge	72	216926.8	2.3				ug/L	219214	Standard
|	As	75	48582.9	2.8	52.7678	1.403	2.7	ug/L	2513	Standard
|	As-1	75	49607.3	2.0	52.3511	1.098	2.1	ug/L	126	Standard
|	Se	77	3881.9	1.7	53.6698	1.508	2.8	ug/L	35	Standard
|	Se	78	16602.6	3.3	53.6368	1.724	3.2	ug/L	2971	Standard
|	Br	79	117.7	17.6				ug/L	172	Standard
|	Se	82	7004.7	0.7	52.0756	0.909	1.7	ug/L	85	Standard
|	Kr	83	121.0	8.7				ug/L	76	Standard
|	Y	89	573655.1	0.2				ug/L	616650	Standard
|	Rh	103	454959.5	0.6				ug/L	500173	Standard
|	Cd	111	98500.0	1.0	53.3046	0.521	1.0	ug/L	334	Standard
|	Cd	114	238987.1	1.3	53.2854	0.690	1.3	ug/L	23	Standard
>	In	115	307936.3	0.1				ug/L	346567	Standard
>	Tb	159	380931.8	1.6				ug/L	442198	Standard
|	Ho	165	385039.4	2.1				ug/L	448954	Standard
|	Pb	208	1522763.2	1.0	51.9538	0.277	0.5	ug/L	593	Standard
|	Bi	209	266081.0	1.2				ug/L	303890	Standard
|	Th	232	368658.6	0.4				ug/L	414939	Standard
|	Cr-1	52	27764.6	2.9	50.0797	0.834	1.7	ug/L	44	KED
|	Cr-1	53	3314.7	0.7	49.7743	0.349	0.7	ug/L	6	KED
>	Ge-1	72	5583.8	1.3				ug/L	5483	KED
|	As-2	75	1517.1	2.1	53.3255	1.106	2.1	ug/L	0	KED
|	Y-1	89	9158.9	1.6				ug/L	9216	KED
|	Rh-1	103	65453.6	1.6				ug/L	66520	KED
|	Cd-1	111	6128.6	0.9	51.8729	1.105	2.1	ug/L	2	KED
|	Cd-1	114	15731.6	1.0	50.8642	1.123	2.2	ug/L	4	KED
>	In-1	115	6066.8	2.8				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.079
|	Cr	52		
|	Cr	53		
>	Ge	72		98.957
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0210WM1 2X

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—	Cd	114	
∨	In	115	88.853
∨	Tb	159	86.145
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
∨	Ge-1	72	101.843
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
∨	In-1	115	105.731

Quantitative Analysis - Summary Report

Sample ID: 02-092-01c 2X

Sample Date/Time: Thursday, February 10, 2022 09:43:20

Report Date/Time: Thursday, February 10, 2022 12:05:55

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01c 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409816.9	1.1				ug/L	381361	Standard
|	Cr	52	18742.0	2.0	1.6458	0.022	1.3	ug/L	3452	Standard
|	Cr	53	1174.4	1.0	0.9930	0.019	1.9	ug/L	126	Standard
>	Ge	72	213927.7	2.8				ug/L	219214	Standard
|	As	75	4384.6	2.3	2.2428	0.028	1.2	ug/L	2513	Standard
|	As-1	75	1784.4	1.3	1.7829	0.031	1.7	ug/L	126	Standard
|	Se	77	62.7	4.6	0.4075	0.020	4.9	ug/L	35	Standard
|	Se	78	3316.7	2.5	1.6635	0.044	2.7	ug/L	2971	Standard
|	Br	79	16935.4	1.6				ug/L	172	Standard
|	Se	82	124.7	4.8	0.3192	0.063	19.9	ug/L	85	Standard
|	Kr	83	108.0	12.1				ug/L	76	Standard
|	Y	89	577752.2	0.8				ug/L	616650	Standard
|	Rh	103	427605.1	0.8				ug/L	500173	Standard
|	Cd	111	332.6	5.2	0.0260	0.010	39.1	ug/L	334	Standard
|	Cd	114	45.7	19.6	0.0061	0.002	35.3	ug/L	23	Standard
>	In	115	297188.5	0.7				ug/L	346567	Standard
>	Tb	159	372557.4	0.2				ug/L	442198	Standard
|	Ho	165	377879.5	1.0				ug/L	448954	Standard
|	Pb	208	3423.5	3.6	0.1020	0.004	4.1	ug/L	593	Standard
|	Bi	209	245465.3	0.8				ug/L	303890	Standard
|	Th	232	367727.5	0.8				ug/L	414939	Standard
|	Cr-1	52	405.3	1.7	0.6780	0.033	4.9	ug/L	44	KED
|	Cr-1	53	47.3	16.4	0.6425	0.137	21.3	ug/L	6	KED
>	Ge-1	72	5392.7	3.1				ug/L	5483	KED
|	As-2	75	57.0	5.3	2.0739	0.065	3.1	ug/L	0	KED
|	Y-1	89	9095.6	1.1				ug/L	9216	KED
|	Rh-1	103	60641.1	1.3				ug/L	66520	KED
|	Cd-1	111	1.7	69.3	-0.0030	0.011	349.0	ug/L	2	KED
|	Cd-1	114	4.1	60.7	0.0016	0.008	510.2	ug/L	4	KED
>	In-1	115	5799.6	2.5				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.462
|	Cr	52		
|	Cr	53		
>	Ge	72		97.589
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-01c 2X

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Cd	114	
In	115	85.752
Tb	159	84.251
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.358
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	101.074

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cD 2X

Sample Date/Time: Thursday, February 10, 2022 09:48:54

Report Date/Time: Thursday, February 10, 2022 12:05:57

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cD 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409960.4	0.7				ug/L	381361	Standard
|	Cr	52	18086.1	1.6	1.5736	0.043	2.7	ug/L	3452	Standard
|	Cr	53	1306.7	1.9	1.1191	0.032	2.8	ug/L	126	Standard
>	Ge	72	213841.5	1.6				ug/L	219214	Standard
|	As	75	4351.7	0.8	2.2065	0.044	2.0	ug/L	2513	Standard
|	As-1	75	1799.7	2.6	1.7998	0.054	3.0	ug/L	126	Standard
|	Se	77	70.7	14.5	0.5207	0.138	26.5	ug/L	35	Standard
|	Se	78	3279.7	2.2	1.5208	0.231	15.2	ug/L	2971	Standard
|	Br	79	17092.6	1.7				ug/L	172	Standard
|	Se	82	132.0	6.0	0.3742	0.050	13.3	ug/L	85	Standard
|	Kr	83	92.3	14.6				ug/L	76	Standard
|	Y	89	575634.4	0.3				ug/L	616650	Standard
|	Rh	103	429187.4	0.4				ug/L	500173	Standard
|	Cd	111	297.8	8.3	0.0060	0.012	199.0	ug/L	334	Standard
|	Cd	114	43.4	26.2	0.0055	0.002	45.4	ug/L	23	Standard
>	In	115	297660.2	1.4				ug/L	346567	Standard
>	Tb	159	377529.7	1.3				ug/L	442198	Standard
|	Ho	165	379870.2	1.3				ug/L	448954	Standard
|	Pb	208	3729.5	1.7	0.1110	0.003	2.9	ug/L	593	Standard
|	Bi	209	246436.3	1.4				ug/L	303890	Standard
|	Th	232	367464.7	1.1				ug/L	414939	Standard
|	Cr-1	52	464.7	10.1	0.7769	0.072	9.3	ug/L	44	KED
|	Cr-1	53	48.3	10.4	0.6459	0.065	10.1	ug/L	6	KED
>	Ge-1	72	5459.4	1.8				ug/L	5483	KED
|	As-2	75	54.7	9.2	1.9677	0.216	11.0	ug/L	0	KED
|	Y-1	89	9161.6	0.7				ug/L	9216	KED
|	Rh-1	103	60955.5	3.1				ug/L	66520	KED
|	Cd-1	111	1.3	114.6	-0.0063	0.013	209.0	ug/L	2	KED
|	Cd-1	114	2.8	47.5	-0.0030	0.004	140.1	ug/L	4	KED
>	In-1	115	5934.3	2.6				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.499
|	Cr	52		
|	Cr	53		
>	Ge	72		97.549
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-01cD 2X

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Cd	114	
In	115	85.888
Tb	159	85.376
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.574
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	103.422

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cL 10X

Sample Date/Time: Thursday, February 10, 2022 09:54:29

Report Date/Time: Thursday, February 10, 2022 12:05:59

Method File: C:\NexlONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220210A\02-092-01cL 10X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409229.7	0.5				ug/L	381361	Standard
|	Cr	52	7617.7	5.2	0.4290	0.040	9.3	ug/L	3452	Standard
|	Cr	53	433.7	3.7	0.2854	0.018	6.2	ug/L	126	Standard
>	Ge	72	233803.2	2.5				ug/L	219214	Standard
|	As	75	3055.6	3.6	0.3977	0.037	9.3	ug/L	2513	Standard
|	As-1	75	427.6	3.7	0.2885	0.025	8.5	ug/L	126	Standard
|	Se	77	52.3	18.4	0.1986	0.121	60.7	ug/L	35	Standard
|	Se	78	3259.0	4.3	0.3267	0.217	66.4	ug/L	2971	Standard
|	Br	79	3478.1	4.8				ug/L	172	Standard
|	Se	82	89.3	1.7	-0.0091	0.014	157.9	ug/L	85	Standard
|	Kr	83	93.7	10.5				ug/L	76	Standard
|	Y	89	611861.9	1.5				ug/L	616650	Standard
|	Rh	103	474234.4	1.3				ug/L	500173	Standard
|	Cd	111	340.7	2.4	0.0129	0.003	22.0	ug/L	334	Standard
|	Cd	114	31.4	24.8	0.0021	0.002	76.2	ug/L	23	Standard
>	In	115	327300.5	1.3				ug/L	346567	Standard
>	Tb	159	403126.5	1.4				ug/L	442198	Standard
|	Ho	165	406395.9	1.8				ug/L	448954	Standard
|	Pb	208	1078.3	2.2	0.0174	0.001	4.6	ug/L	593	Standard
|	Bi	209	276550.3	0.9				ug/L	303890	Standard
|	Th	232	390838.2	0.9				ug/L	414939	Standard
|	Cr-1	52	129.3	8.9	0.1380	0.023	16.3	ug/L	44	KED
|	Cr-1	53	11.7	26.2	0.0674	0.044	64.8	ug/L	6	KED
>	Ge-1	72	5964.2	1.5				ug/L	5483	KED
|	As-2	75	12.0	28.9	0.3960	0.119	30.0	ug/L	0	KED
|	Y-1	89	9843.1	2.2				ug/L	9216	KED
|	Rh-1	103	68181.0	1.7				ug/L	66520	KED
|	Cd-1	111	2.3	24.7	0.0004	0.005	1283.2	ug/L	2	KED
|	Cd-1	114	2.9	23.0	-0.0035	0.002	52.7	ug/L	4	KED
>	In-1	115	6567.0	2.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.308
|	Cr	52		
|	Cr	53		
>	Ge	72		106.655
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-01cL 10X

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Cd	114	
In	115	94.441
Tb	159	91.164
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	108.783
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	114.448

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cMS 2X

Sample Date/Time: Thursday, February 10, 2022 10:00:04

Report Date/Time: Thursday, February 10, 2022 12:06:01

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMS 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	417312.2	1.9				ug/L	381361	Standard
|	Cr	52	433207.0	4.3	46.1624	1.146	2.5	ug/L	3452	Standard
|	Cr	53	48439.7	4.2	45.3300	1.051	2.3	ug/L	126	Standard
[>	Ge	72	218667.1	5.2				ug/L	219214	Standard
|	As	75	50212.5	4.7	54.1786	0.446	0.8	ug/L	2513	Standard
|	As-1	75	51097.0	3.5	53.5195	1.037	1.9	ug/L	126	Standard
|	Se	77	3969.9	4.3	54.4553	0.625	1.1	ug/L	35	Standard
|	Se	78	16897.0	4.8	54.2701	0.425	0.8	ug/L	2971	Standard
|	Br	79	16827.2	2.1				ug/L	172	Standard
|	Se	82	7057.1	0.6	52.1164	2.394	4.6	ug/L	85	Standard
|	Kr	83	96.0	10.9				ug/L	76	Standard
|	Y	89	581039.1	2.8				ug/L	616650	Standard
|	Rh	103	431058.8	2.6				ug/L	500173	Standard
|	Cd	111	91014.5	2.5	50.4049	0.338	0.7	ug/L	334	Standard
|	Cd	114	220242.8	2.1	50.2646	0.254	0.5	ug/L	23	Standard
[>	In	115	300830.7	1.9				ug/L	346567	Standard
[>	Tb	159	380995.1	1.6				ug/L	442198	Standard
|	Ho	165	381948.8	1.6				ug/L	448954	Standard
|	Pb	208	1367598.4	1.1	46.6498	0.197	0.4	ug/L	593	Standard
|	Bi	209	249554.1	1.3				ug/L	303890	Standard
|	Th	232	375110.9	0.9				ug/L	414939	Standard
|	Cr-1	52	25816.6	1.9	47.3537	1.776	3.7	ug/L	44	KED
|	Cr-1	53	3182.0	2.3	48.5582	0.146	0.3	ug/L	6	KED
[>	Ge-1	72	5493.7	2.0				ug/L	5483	KED
|	As-2	75	1594.1	5.1	56.9311	2.045	3.6	ug/L	0	KED
|	Y-1	89	9258.0	0.9				ug/L	9216	KED
|	Rh-1	103	61817.5	2.3				ug/L	66520	KED
|	Cd-1	111	5764.2	2.5	49.5135	1.929	3.9	ug/L	2	KED
|	Cd-1	114	14844.7	1.8	48.7041	1.352	2.8	ug/L	4	KED
[>	In-1	115	5977.6	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		109.427
|	Cr	52		
|	Cr	53		
[>	Ge	72		99.751
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-01cMS 2X

Report Date/Time: Thursday, February 10, 2022 12:06:01

Cd	114	
In	115	86.803
Tb	159	86.159
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.201
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	104.177

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cMSD 2X

Sample Date/Time: Thursday, February 10, 2022 10:05:39

Report Date/Time: Thursday, February 10, 2022 12:06:03

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMSD 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	424077.7	1.6				ug/L	381361	Standard
|	Cr	52	434608.4	0.7	45.5859	0.501	1.1	ug/L	3452	Standard
|	Cr	53	48831.7	1.8	44.9943	1.446	3.2	ug/L	126	Standard
>	Ge	72	219382.2	3.3				ug/L	219214	Standard
|	As	75	51793.3	2.6	55.7826	0.581	1.0	ug/L	2513	Standard
|	As-1	75	52667.0	2.0	54.9708	0.793	1.4	ug/L	126	Standard
|	Se	77	4137.3	2.5	56.5793	0.698	1.2	ug/L	35	Standard
|	Se	78	17640.2	2.0	56.9565	1.298	2.3	ug/L	2971	Standard
|	Br	79	17455.0	4.1				ug/L	172	Standard
|	Se	82	7344.9	0.5	54.0436	1.873	3.5	ug/L	85	Standard
|	Kr	83	98.7	14.4				ug/L	76	Standard
|	Y	89	585529.7	2.3				ug/L	616650	Standard
|	Rh	103	433067.3	1.1				ug/L	500173	Standard
|	Cd	111	93069.9	1.4	51.5224	0.462	0.9	ug/L	334	Standard
|	Cd	114	223670.4	1.3	51.0211	0.520	1.0	ug/L	23	Standard
>	In	115	300985.7	0.6				ug/L	346567	Standard
>	Tb	159	382838.9	0.8				ug/L	442198	Standard
|	Ho	165	386453.0	1.4				ug/L	448954	Standard
|	Pb	208	1382064.3	0.7	46.9146	0.068	0.1	ug/L	593	Standard
|	Bi	209	251111.9	1.0				ug/L	303890	Standard
|	Th	232	372536.8	1.3				ug/L	414939	Standard
|	Cr-1	52	25387.5	0.7	46.1098	0.431	0.9	ug/L	44	KED
|	Cr-1	53	3078.3	1.6	46.5350	0.627	1.3	ug/L	6	KED
>	Ge-1	72	5545.7	1.5				ug/L	5483	KED
|	As-2	75	1621.1	3.3	57.3908	2.574	4.5	ug/L	0	KED
|	Y-1	89	9237.7	1.4				ug/L	9216	KED
|	Rh-1	103	61356.8	0.5				ug/L	66520	KED
|	Cd-1	111	5729.5	2.8	48.7541	3.068	6.3	ug/L	2	KED
|	Cd-1	114	14895.9	1.7	48.3987	2.212	4.6	ug/L	4	KED
>	In-1	115	6040.7	3.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.201
|	Cr	52		
|	Cr	53		
>	Ge	72		100.077
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-01cMSD 2X

Report Date/Time: Thursday, February 10, 2022 12:06:03

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—	Cd	114	
↳	In	115	86.848
↳	Tb	159	86.576
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	101.150
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	105.276

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cPS 2X

Sample Date/Time: Thursday, February 10, 2022 10:11:16

Report Date/Time: Thursday, February 10, 2022 12:06:06

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cPS 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	424652.9	3.1				ug/L	381361	Standard
|	Cr	52	348370.0	5.0	36.3959	0.990	2.7	ug/L	3452	Standard
|	Cr	53	38765.6	3.3	35.6351	0.666	1.9	ug/L	126	Standard
>	Ge	72	216432.7	4.5				ug/L	219214	Standard
|	As	75	41391.7	4.3	44.6419	0.308	0.7	ug/L	2513	Standard
|	As-1	75	41547.6	2.6	43.9415	0.851	1.9	ug/L	126	Standard
|	Se	77	3192.0	4.3	44.1415	0.854	1.9	ug/L	35	Standard
|	Se	78	14379.6	4.2	45.0400	0.152	0.3	ug/L	2971	Standard
|	Br	79	17378.2	3.0				ug/L	172	Standard
|	Se	82	5734.5	1.8	42.6778	2.506	5.9	ug/L	85	Standard
|	Kr	83	106.7	8.7				ug/L	76	Standard
|	Y	89	583277.4	3.3				ug/L	616650	Standard
|	Rh	103	429202.4	2.7				ug/L	500173	Standard
|	Cd	111	71968.5	2.5	39.9261	0.446	1.1	ug/L	334	Standard
|	Cd	114	173418.8	2.1	39.6782	0.156	0.4	ug/L	23	Standard
>	In	115	300084.0	2.3				ug/L	346567	Standard
>	Tb	159	377365.4	1.6				ug/L	442198	Standard
|	Ho	165	380393.3	2.7				ug/L	448954	Standard
|	Pb	208	1075858.0	1.3	37.0473	0.141	0.4	ug/L	593	Standard
|	Bi	209	245764.7	2.3				ug/L	303890	Standard
|	Th	232	370712.2	2.2				ug/L	414939	Standard
|	Cr-1	52	20548.1	0.9	37.8265	0.888	2.3	ug/L	44	KED
|	Cr-1	53	2458.5	1.7	37.6655	0.927	2.5	ug/L	6	KED
>	Ge-1	72	5470.4	1.8				ug/L	5483	KED
|	As-2	75	1247.4	1.7	44.7589	0.880	2.0	ug/L	0	KED
|	Y-1	89	9197.3	0.8				ug/L	9216	KED
|	Rh-1	103	61777.0	0.6				ug/L	66520	KED
|	Cd-1	111	4628.7	0.5	39.2948	0.849	2.2	ug/L	2	KED
|	Cd-1	114	11797.7	1.5	38.2582	0.880	2.3	ug/L	4	KED
>	In-1	115	6048.0	2.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.352
|	Cr	52		
|	Cr	53		
>	Ge	72		98.731
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-01cPS 2X

Report Date/Time: Thursday, February 10, 2022 12:06:06

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Cd	114	
In	115	86.588
Tb	159	85.339
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.775
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.404

Quantitative Analysis - Summary Report

Sample ID: 02-092-02c 2X

Sample Date/Time: Thursday, February 10, 2022 10:16:53

Report Date/Time: Thursday, February 10, 2022 12:06:07

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-02c 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	416556.7	1.4				ug/L	381361	Standard
|	Cr	52	15034.6	3.8	1.2133	0.053	4.4	ug/L	3452	Standard
|	Cr	53	2389.5	3.3	2.1178	0.079	3.7	ug/L	126	Standard
>	Ge	72	219654.9	3.1				ug/L	219214	Standard
|	As	75	3228.3	1.5	0.8052	0.138	17.1	ug/L	2513	Standard
|	As-1	75	696.8	5.7	0.5974	0.061	10.2	ug/L	126	Standard
|	Se	77	168.7	10.4	1.8417	0.183	9.9	ug/L	35	Standard
|	Se	78	3309.4	1.6	1.2955	0.308	23.8	ug/L	2971	Standard
|	Br	79	29833.1	2.0				ug/L	172	Standard
|	Se	82	153.0	6.0	0.5038	0.052	10.4	ug/L	85	Standard
|	Kr	83	100.3	16.9				ug/L	76	Standard
|	Y	89	580753.2	1.7				ug/L	616650	Standard
|	Rh	103	437386.3	1.4				ug/L	500173	Standard
|	Cd	111	296.2	6.9	0.0032	0.010	318.1	ug/L	334	Standard
|	Cd	114	49.3	6.1	0.0067	0.001	10.8	ug/L	23	Standard
>	In	115	301265.5	0.8				ug/L	346567	Standard
>	Tb	159	383458.6	1.0				ug/L	442198	Standard
|	Ho	165	385095.5	0.6				ug/L	448954	Standard
|	Pb	208	2872.8	2.5	0.0800	0.003	3.7	ug/L	593	Standard
|	Bi	209	251176.3	0.5				ug/L	303890	Standard
|	Th	232	371381.5	1.6				ug/L	414939	Standard
|	Cr-1	52	405.3	4.4	0.6403	0.037	5.8	ug/L	44	KED
|	Cr-1	53	59.0	29.8	0.7774	0.265	34.0	ug/L	6	KED
>	Ge-1	72	5671.8	1.4				ug/L	5483	KED
|	As-2	75	18.0	5.6	0.6229	0.035	5.6	ug/L	0	KED
|	Y-1	89	9362.1	1.5				ug/L	9216	KED
|	Rh-1	103	63286.9	1.3				ug/L	66520	KED
|	Cd-1	111	1.3	43.3	-0.0067	0.005	73.4	ug/L	2	KED
|	Cd-1	114	4.7	36.5	0.0030	0.006	190.3	ug/L	4	KED
>	In-1	115	6141.7	0.8				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.229
|	Cr	52		
|	Cr	53		
>	Ge	72		100.201
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-02c 2X

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Cd	114	
In	115	86.928
Tb	159	86.716
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.449
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	107.037

Quantitative Analysis - Summary Report

Sample ID: 02-068-01c 2X

Sample Date/Time: Thursday, February 10, 2022 10:22:29

Report Date/Time: Thursday, February 10, 2022 12:06:10

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-068-01c 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	405154.3	2.2				ug/L	381361	Standard
|	Cr	52	10602.3	2.7	0.7679	0.006	0.8	ug/L	3452	Standard
|	Cr	53	859.0	2.7	0.7008	0.005	0.7	ug/L	126	Standard
>	Ge	72	223071.9	4.0				ug/L	219214	Standard
|	As	75	4913.9	2.4	2.6251	0.090	3.4	ug/L	2513	Standard
|	As-1	75	2206.9	2.6	2.1394	0.040	1.9	ug/L	126	Standard
|	Se	77	57.7	5.0	0.3045	0.050	16.5	ug/L	35	Standard
|	Se	78	3403.4	2.9	1.4561	0.141	9.7	ug/L	2971	Standard
|	Br	79	3292.0	4.0				ug/L	172	Standard
|	Se	82	110.3	10.5	0.1730	0.054	31.2	ug/L	85	Standard
|	Kr	83	78.0	12.6				ug/L	76	Standard
|	Y	89	577072.9	2.8				ug/L	616650	Standard
|	Rh	103	443503.1	2.8				ug/L	500173	Standard
|	Cd	111	296.9	3.6	0.0024	0.006	259.9	ug/L	334	Standard
|	Cd	114	67.7	9.9	0.0108	0.002	16.6	ug/L	23	Standard
>	In	115	303515.7	1.8				ug/L	346567	Standard
>	Tb	159	378697.6	1.3				ug/L	442198	Standard
|	Ho	165	382027.2	2.2				ug/L	448954	Standard
|	Pb	208	637.7	6.0	0.0045	0.001	32.5	ug/L	593	Standard
|	Bi	209	255154.0	1.2				ug/L	303890	Standard
|	Th	232	369048.2	0.7				ug/L	414939	Standard
|	Cr-1	52	271.0	6.4	0.3924	0.025	6.5	ug/L	44	KED
|	Cr-1	53	30.7	22.2	0.3485	0.095	27.4	ug/L	6	KED
>	Ge-1	72	5773.8	1.4				ug/L	5483	KED
|	As-2	75	82.0	12.9	2.7883	0.371	13.3	ug/L	0	KED
|	Y-1	89	9509.5	1.4				ug/L	9216	KED
|	Rh-1	103	64781.6	1.1				ug/L	66520	KED
|	Cd-1	111	2.7	57.3	0.0037	0.012	334.5	ug/L	2	KED
|	Cd-1	114	1.5	38.7	-0.0076	0.002	23.1	ug/L	4	KED
>	In-1	115	6344.0	0.5				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		106.239
|	Cr	52		
|	Cr	53		
>	Ge	72		101.760
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-068-01c 2X

Report Date/Time: Thursday, February 10, 2022 12:06:10

Cd	114	
In	115	87.578
Tb	159	85.640
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	105.310
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	110.562

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 10, 2022 10:28:06

Report Date/Time: Thursday, February 10, 2022 12:06:12

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	413156.5	0.7				ug/L	381361	Standard
|	Cr	52	383353.9	2.0	41.2278	0.616	1.5	ug/L	3452	Standard
|	Cr	53	43042.1	2.6	40.6797	0.859	2.1	ug/L	126	Standard
>	Ge	72	242159.0	2.5				ug/L	219214	Standard
|	As	75	42154.1	2.0	40.3789	0.244	0.6	ug/L	2513	Standard
|	As-1	75	42012.9	1.2	39.6863	0.544	1.4	ug/L	126	Standard
|	Se	77	3311.1	2.7	40.8797	0.184	0.4	ug/L	35	Standard
|	Se	78	14780.0	2.0	40.4376	0.308	0.8	ug/L	2971	Standard
|	Br	79	262.0	6.2				ug/L	172	Standard
|	Se	82	5757.2	1.2	38.1839	1.252	3.3	ug/L	85	Standard
|	Kr	83	101.3	8.5				ug/L	76	Standard
|	Y	89	618590.9	1.6				ug/L	616650	Standard
|	Rh	103	484717.4	1.4				ug/L	500173	Standard
|	Cd	111	80356.1	0.9	41.5493	0.427	1.0	ug/L	334	Standard
|	Cd	114	193660.9	1.1	41.2890	0.296	0.7	ug/L	23	Standard
>	In	115	322045.8	1.6				ug/L	346567	Standard
>	Tb	159	401770.0	0.9				ug/L	442198	Standard
|	Ho	165	403780.6	1.7				ug/L	448954	Standard
|	Pb	208	1227620.4	1.1	39.7054	0.257	0.6	ug/L	593	Standard
|	Bi	209	281265.4	1.0				ug/L	303890	Standard
|	Th	232	390069.2	0.8				ug/L	414939	Standard
|	Cr-1	52	23242.2	1.2	36.5506	0.235	0.6	ug/L	44	KED
|	Cr-1	53	2811.6	3.3	36.7944	0.882	2.4	ug/L	6	KED
>	Ge-1	72	6401.8	1.5				ug/L	5483	KED
|	As-2	75	1286.4	2.4	39.4351	0.537	1.4	ug/L	0	KED
|	Y-1	89	10470.2	1.2				ug/L	9216	KED
|	Rh-1	103	72580.6	0.5				ug/L	66520	KED
|	Cd-1	111	5430.4	1.6	39.8371	1.149	2.9	ug/L	2	KED
|	Cd-1	114	13771.1	0.9	38.5904	0.881	2.3	ug/L	4	KED
>	In-1	115	6998.1	1.5				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.338
|	Cr	52	103.070	
|	Cr	53	101.699	
>	Ge	72		110.467
|	As	75	100.947	
|	As-1	75	99.216	
|	Se	77	102.199	
|	Se	78	101.094	
|	Br	79		
|	Se	82	95.460	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	103.873	

Sample ID: QC Std 6

Report Date/Time: Thursday, February 10, 2022 12:06:12

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Cd	114	103.223	
In	115		92.924
Tb	159		90.857
Ho	165		
Pb	208	99.263	
Bi	209		
Th	232		
Cr-1	52	91.376	
Cr-1	53	91.986	
Ge-1	72		116.763
As-2	75	98.588	
Y-1	89		
Rh-1	103		
Cd-1	111	99.593	
Cd-1	114	96.476	
In-1	115		121.962

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 10, 2022 10:33:42
 Report Date/Time: Thursday, February 10, 2022 12:06:14
 Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	403450.7	2.2				ug/L	381361	Standard
|	Cr	52	192286.9	1.0	20.9842	0.271	1.3	ug/L	3452	Standard
|	Cr	53	21555.9	1.7	20.8044	0.367	1.8	ug/L	126	Standard
>	Ge	72	236436.8	1.5				ug/L	219214	Standard
|	As	75	22081.3	2.1	20.3415	0.310	1.5	ug/L	2513	Standard
|	As-1	75	20866.9	1.6	20.1199	0.212	1.1	ug/L	126	Standard
|	Se	77	1682.8	3.8	21.0463	0.553	2.6	ug/L	35	Standard
|	Se	78	8918.1	1.6	20.5798	0.264	1.3	ug/L	2971	Standard
|	Br	79	204.3	10.5				ug/L	172	Standard
|	Se	82	2960.6	0.4	19.8050	0.345	1.7	ug/L	85	Standard
|	Kr	83	93.3	3.3				ug/L	76	Standard
|	Y	89	600288.9	1.7				ug/L	616650	Standard
|	Rh	103	477391.6	0.9				ug/L	500173	Standard
|	Cd	111	40148.4	0.3	20.7646	0.391	1.9	ug/L	334	Standard
|	Cd	114	96927.3	0.2	20.7486	0.371	1.8	ug/L	23	Standard
>	In	115	320757.6	1.6				ug/L	346567	Standard
>	Tb	159	395096.9	2.1				ug/L	442198	Standard
|	Ho	165	401559.0	0.7				ug/L	448954	Standard
|	Pb	208	612097.9	0.8	20.1268	0.264	1.3	ug/L	593	Standard
|	Bi	209	276265.4	0.3				ug/L	303890	Standard
|	Th	232	385164.6	2.0				ug/L	414939	Standard
|	Cr-1	52	11434.2	1.0	18.5701	0.351	1.9	ug/L	44	KED
|	Cr-1	53	1389.7	2.4	18.7788	0.602	3.2	ug/L	6	KED
>	Ge-1	72	6186.0	0.9				ug/L	5483	KED
|	As-2	75	679.3	2.0	21.5523	0.281	1.3	ug/L	0	KED
|	Y-1	89	10219.0	1.4				ug/L	9216	KED
|	Rh-1	103	71537.7	0.5				ug/L	66520	KED
|	Cd-1	111	2681.3	1.7	19.7573	0.273	1.4	ug/L	2	KED
|	Cd-1	114	6900.4	1.4	19.4268	0.188	1.0	ug/L	4	KED
>	In-1	115	6962.2	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		105.792
|	Cr	52	104.921	
|	Cr	53	104.022	
>	Ge	72		107.857
|	As	75	101.707	
|	As-1	75	100.600	
|	Se	77	105.232	
|	Se	78	102.899	
|	Br	79		
|	Se	82	99.025	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	103.823	

Sample ID: QC Std 7

Report Date/Time: Thursday, February 10, 2022 12:06:14

Cd	114	103.743	
In	115		92.553
Tb	159		89.348
Ho	165		
Pb	208	100.634	
Bi	209		
Th	232		
Cr-1	52	92.850	
Cr-1	53	93.894	
Ge-1	72		112.827
As-2	75	107.762	
Y-1	89		
Rh-1	103		
Cd-1	111	98.787	
Cd-1	114	97.134	
In-1	115		121.336

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 10, 2022 10:39:19

Report Date/Time: Thursday, February 10, 2022 12:06:16

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	426472.8	0.2				ug/L	381361	Standard
|	Cr	52	4433.7	1.3	0.0603	0.006	9.8	ug/L	3452	Standard
|	Cr	53	194.0	12.2	0.0484	0.022	44.8	ug/L	126	Standard
>	Ge	72	250497.1	0.4				ug/L	219214	Standard
|	As	75	2877.0	2.8	0.0049	0.070	1440.1	ug/L	2513	Standard
|	As-1	75	124.7	14.8	-0.0173	0.017	97.2	ug/L	126	Standard
|	Se	77	45.0	14.6	0.0652	0.081	124.4	ug/L	35	Standard
|	Se	78	3402.4	2.8	0.0261	0.288	1103.1	ug/L	2971	Standard
|	Br	79	190.7	7.2				ug/L	172	Standard
|	Se	82	89.3	5.6	-0.0508	0.033	65.0	ug/L	85	Standard
|	Kr	83	91.0	13.7				ug/L	76	Standard
|	Y	89	642470.5	1.1				ug/L	616650	Standard
|	Rh	103	501797.3	0.3				ug/L	500173	Standard
|	Cd	111	351.3	2.6	0.0145	0.005	37.5	ug/L	334	Standard
|	Cd	114	22.4	9.2	0.0001	0.000	503.8	ug/L	23	Standard
>	In	115	334417.1	1.0				ug/L	346567	Standard
>	Tb	159	415906.3	1.2				ug/L	442198	Standard
|	Ho	165	416569.7	1.4				ug/L	448954	Standard
|	Pb	208	566.3	4.8	0.0003	0.001	296.4	ug/L	593	Standard
|	Bi	209	288344.8	1.0				ug/L	303890	Standard
|	Th	232	401831.9	1.5				ug/L	414939	Standard
|	Cr-1	52	40.7	14.0	-0.0190	0.009	45.7	ug/L	44	KED
|	Cr-1	53	5.7	27.0	-0.0251	0.019	77.3	ug/L	6	KED
>	Ge-1	72	6615.9	0.0				ug/L	5483	KED
|	As-2	75	1.3	43.3	0.0396	0.017	43.3	ug/L	0	KED
|	Y-1	89	10879.1	2.9				ug/L	9216	KED
|	Rh-1	103	75812.7	1.8				ug/L	66520	KED
|	Cd-1	111	2.3	49.5	-0.0018	0.008	429.4	ug/L	2	KED
|	Cd-1	114	3.0	39.6	-0.0043	0.003	74.2	ug/L	4	KED
>	In-1	115	7437.4	0.9				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.829
|	Cr	52		
|	Cr	53		
>	Ge	72		114.271
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Thursday, February 10, 2022 12:06:16

Cd	114	
In	115	96.494
Tb	159	94.054
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	120.668
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	129.619

Quantitative Analysis - Summary Report

Sample ID: 02-068-02c 2X

Sample Date/Time: Thursday, February 10, 2022 10:45:15

Report Date/Time: Thursday, February 10, 2022 12:06:18

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-068-02c 2X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	433954.3	1.6				ug/L	381361	Standard
|	Cr	52	18355.5	2.9	1.4918	0.047	3.1	ug/L	3452	Standard
|	Cr	53	1596.4	3.2	1.3112	0.027	2.1	ug/L	126	Standard
>	Ge	72	225779.7	2.7				ug/L	219214	Standard
|	As	75	3973.5	0.8	1.5244	0.081	5.3	ug/L	2513	Standard
|	As-1	75	1200.9	4.1	1.0886	0.021	1.9	ug/L	126	Standard
|	Se	77	65.7	7.2	0.4028	0.085	21.1	ug/L	35	Standard
|	Se	78	3497.8	0.9	1.6585	0.352	21.2	ug/L	2971	Standard
|	Br	79	14004.2	2.7				ug/L	172	Standard
|	Se	82	117.7	8.0	0.2171	0.050	23.2	ug/L	85	Standard
|	Kr	83	84.0	25.2				ug/L	76	Standard
|	Y	89	579938.4	1.2				ug/L	616650	Standard
|	Rh	103	429533.5	0.2				ug/L	500173	Standard
|	Cd	111	323.9	7.3	0.0223	0.013	58.3	ug/L	334	Standard
|	Cd	114	35.1	58.4	0.0036	0.005	131.1	ug/L	23	Standard
>	In	115	295166.7	0.3				ug/L	346567	Standard
>	Tb	159	371012.2	0.9				ug/L	442198	Standard
|	Ho	165	378047.8	1.0				ug/L	448954	Standard
|	Pb	208	4869.7	2.1	0.1532	0.003	2.2	ug/L	593	Standard
|	Bi	209	242430.8	0.7				ug/L	303890	Standard
|	Th	232	363450.4	1.2				ug/L	414939	Standard
|	Cr-1	52	581.7	2.1	0.9270	0.023	2.5	ug/L	44	KED
|	Cr-1	53	68.7	10.7	0.8942	0.114	12.8	ug/L	6	KED
>	Ge-1	72	5823.2	1.7				ug/L	5483	KED
|	As-2	75	40.0	19.5	1.3473	0.257	19.1	ug/L	0	KED
|	Y-1	89	9588.2	1.2				ug/L	9216	KED
|	Rh-1	103	63411.1	1.1				ug/L	66520	KED
|	Cd-1	111	2.7	86.6	0.0036	0.019	522.9	ug/L	2	KED
|	Cd-1	114	4.0	30.3	0.0001	0.004	3559.2	ug/L	4	KED
>	In-1	115	6386.7	1.2				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		113.791
|	Cr	52		
|	Cr	53		
>	Ge	72		102.995
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-02c 2X

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Cd	114	
In	115	85.169
Tb	159	83.902
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.210
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	111.306

Quantitative Analysis - Summary Report

Sample ID: 02-068-03c 2X

Sample Date/Time: Thursday, February 10, 2022 10:50:51

Report Date/Time: Thursday, February 10, 2022 12:06:20

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-068-03c 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	457323.0	2.8				ug/L	381361	Standard
	Cr	52	26814.2	3.6	2.2245	0.037	1.7	ug/L	3452	Standard
	Cr	53	2706.9	6.6	2.1874	0.090	4.1	ug/L	126	Standard
>	Ge	72	230328.6	4.1				ug/L	219214	Standard
	As	75	4061.4	2.2	1.5344	0.130	8.5	ug/L	2513	Standard
	As-1	75	1367.2	3.8	1.2305	0.008	0.7	ug/L	126	Standard
	Se	77	88.7	6.4	0.6883	0.106	15.5	ug/L	35	Standard
	Se	78	3513.1	2.8	1.4625	0.631	43.1	ug/L	2971	Standard
	Br	79	23581.1	2.2				ug/L	172	Standard
	Se	82	159.3	5.1	0.4979	0.086	17.3	ug/L	85	Standard
	Kr	83	89.3	6.2				ug/L	76	Standard
	Y	89	596233.1	2.5				ug/L	616650	Standard
	Rh	103	441433.2	0.9				ug/L	500173	Standard
	Cd	111	341.6	5.7	0.0276	0.008	30.0	ug/L	334	Standard
	Cd	114	52.6	12.4	0.0074	0.001	17.8	ug/L	23	Standard
>	In	115	302483.7	1.5				ug/L	346567	Standard
>	Tb	159	380391.5	1.0				ug/L	442198	Standard
	Ho	165	387392.0	1.5				ug/L	448954	Standard
	Pb	208	1531.7	0.9	0.0349	0.000	0.3	ug/L	593	Standard
	Bi	209	245563.3	0.4				ug/L	303890	Standard
	Th	232	368859.5	0.7				ug/L	414939	Standard
	Cr-1	52	883.0	2.1	1.4288	0.030	2.1	ug/L	44	KED
	Cr-1	53	108.0	20.3	1.4389	0.302	21.0	ug/L	6	KED
>	Ge-1	72	5901.2	0.8				ug/L	5483	KED
	As-2	75	38.7	9.8	1.2856	0.120	9.3	ug/L	0	KED
	Y-1	89	10073.2	0.9				ug/L	9216	KED
	Rh-1	103	65601.0	0.9				ug/L	66520	KED
	Cd-1	111	3.7	63.0	0.0103	0.018	170.3	ug/L	2	KED
	Cd-1	114	5.5	50.6	0.0042	0.008	194.6	ug/L	4	KED
>	In-1	115	6622.7	1.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		119.919
	Cr	52		
	Cr	53		
>	Ge	72		105.070
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-03c 2X

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Cd	114	
In	115	87.280
Tb	159	86.023
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	107.633
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.419

Quantitative Analysis - Summary Report

Sample ID: 02-068-04c 2X

Sample Date/Time: Thursday, February 10, 2022 10:56:27

Report Date/Time: Thursday, February 10, 2022 12:06:22

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-068-04c 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	462320.7	1.6				ug/L	381361	Standard
|	Cr	52	26392.7	2.1	2.1553	0.019	0.9	ug/L	3452	Standard
|	Cr	53	2697.3	2.9	2.1555	0.037	1.7	ug/L	126	Standard
>	Ge	72	232979.6	2.7				ug/L	219214	Standard
|	As	75	4073.6	2.7	1.4946	0.019	1.3	ug/L	2513	Standard
|	As-1	75	1362.5	4.1	1.2100	0.021	1.7	ug/L	126	Standard
|	Se	77	94.0	7.7	0.7416	0.076	10.2	ug/L	35	Standard
|	Se	78	3486.1	2.1	1.2039	0.145	12.0	ug/L	2971	Standard
|	Br	79	24187.1	2.0				ug/L	172	Standard
|	Se	82	141.0	1.9	0.3552	0.026	7.3	ug/L	85	Standard
|	Kr	83	84.0	8.3				ug/L	76	Standard
|	Y	89	606655.1	1.5				ug/L	616650	Standard
|	Rh	103	444735.6	0.5				ug/L	500173	Standard
|	Cd	111	334.2	6.0	0.0227	0.011	48.8	ug/L	334	Standard
|	Cd	114	51.0	27.6	0.0070	0.003	45.2	ug/L	23	Standard
>	In	115	303987.5	0.2				ug/L	346567	Standard
>	Tb	159	383367.7	0.7				ug/L	442198	Standard
|	Ho	165	388356.7	0.6				ug/L	448954	Standard
|	Pb	208	1619.0	3.1	0.0375	0.002	5.6	ug/L	593	Standard
|	Bi	209	248971.8	0.1				ug/L	303890	Standard
|	Th	232	375001.3	0.8				ug/L	414939	Standard
|	Cr-1	52	846.0	2.3	1.3248	0.075	5.7	ug/L	44	KED
|	Cr-1	53	107.3	12.6	1.3833	0.143	10.3	ug/L	6	KED
>	Ge-1	72	6079.0	3.2				ug/L	5483	KED
|	As-2	75	42.7	19.7	1.3782	0.275	19.9	ug/L	0	KED
|	Y-1	89	10199.0	0.6				ug/L	9216	KED
|	Rh-1	103	65714.2	2.0				ug/L	66520	KED
|	Cd-1	111	2.7	43.3	0.0025	0.009	351.4	ug/L	2	KED
|	Cd-1	114	1.5	47.2	-0.0078	0.002	26.5	ug/L	4	KED
>	In-1	115	6708.5	0.3				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		121.229
|	Cr	52		
|	Cr	53		
>	Ge	72		106.280
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-04c 2X

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Cd	114	
In	115	87.714
Tb	159	86.696
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	110.875
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.915

Quantitative Analysis - Summary Report

Sample ID: 02-068-05c 2X

Sample Date/Time: Thursday, February 10, 2022 11:02:02

Report Date/Time: Thursday, February 10, 2022 12:06:25

Method File: C:\NexlONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220210A\02-068-05c 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	448386.4	3.1				ug/L	381361	Standard
|	Cr	52	13826.4	3.7	0.9774	0.020	2.0	ug/L	3452	Standard
|	Cr	53	3289.7	5.4	2.7432	0.068	2.5	ug/L	126	Standard
>	Ge	72	223628.9	4.0				ug/L	219214	Standard
|	As	75	3827.7	2.6	1.4051	0.093	6.6	ug/L	2513	Standard
|	As-1	75	1144.5	3.2	1.0432	0.028	2.6	ug/L	126	Standard
|	Se	77	403.7	5.0	4.9814	0.137	2.8	ug/L	35	Standard
|	Se	78	3668.8	1.6	2.4399	0.349	14.3	ug/L	2971	Standard
|	Br	79	57118.3	1.7				ug/L	172	Standard
|	Se	82	225.7	3.8	1.0165	0.107	10.6	ug/L	85	Standard
|	Kr	83	99.3	11.1				ug/L	76	Standard
|	Y	89	585924.0	1.2				ug/L	616650	Standard
|	Rh	103	426872.2	0.2				ug/L	500173	Standard
|	Cd	111	420.2	1.9	0.0770	0.005	6.4	ug/L	334	Standard
|	Cd	114	231.8	11.6	0.0495	0.007	13.5	ug/L	23	Standard
>	In	115	295010.4	0.8				ug/L	346567	Standard
>	Tb	159	372488.8	1.3				ug/L	442198	Standard
|	Ho	165	377465.8	1.4				ug/L	448954	Standard
|	Pb	208	3302.5	6.4	0.0978	0.006	6.3	ug/L	593	Standard
|	Bi	209	235329.5	0.5				ug/L	303890	Standard
|	Th	232	358584.3	1.1				ug/L	414939	Standard
|	Cr-1	52	161.0	7.3	0.1907	0.020	10.3	ug/L	44	KED
|	Cr-1	53	20.7	30.7	0.1931	0.087	45.3	ug/L	6	KED
>	Ge-1	72	5977.9	0.5				ug/L	5483	KED
|	As-2	75	30.7	13.2	1.0064	0.127	12.7	ug/L	0	KED
|	Y-1	89	10178.3	1.0				ug/L	9216	KED
|	Rh-1	103	64803.7	0.1				ug/L	66520	KED
|	Cd-1	111	8.3	36.7	0.0462	0.024	52.0	ug/L	2	KED
|	Cd-1	114	19.7	35.6	0.0456	0.021	45.1	ug/L	4	KED
>	In-1	115	6693.6	1.0				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		117.575
|	Cr	52		
|	Cr	53		
>	Ge	72		102.014
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-05c 2X

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Cd	114	
In	115	85.124
Tb	159	84.236
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	109.032
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.655

Quantitative Analysis - Summary Report

Sample ID: 02-068-06c 2X

Sample Date/Time: Thursday, February 10, 2022 11:07:37

Report Date/Time: Thursday, February 10, 2022 12:06:26

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-068-06c 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	455571.8	1.7				ug/L	381361	Standard
|	Cr	52	27876.8	1.7	2.3398	0.039	1.7	ug/L	3452	Standard
|	Cr	53	2965.6	3.9	2.4200	0.068	2.8	ug/L	126	Standard
>	Ge	72	221816.2	3.0				ug/L	219214	Standard
|	As	75	4709.1	2.7	2.4250	0.042	1.7	ug/L	2513	Standard
|	As-1	75	2108.9	2.1	2.0515	0.088	4.3	ug/L	126	Standard
|	Se	77	361.0	5.6	4.4425	0.156	3.5	ug/L	35	Standard
|	Se	78	4079.2	3.5	4.1191	0.111	2.7	ug/L	2971	Standard
|	Br	79	148920.4	2.0				ug/L	172	Standard
|	Se	82	425.0	3.5	2.4965	0.165	6.6	ug/L	85	Standard
|	Kr	83	112.3	2.6				ug/L	76	Standard
|	Y	89	566054.2	1.4				ug/L	616650	Standard
|	Rh	103	418458.2	1.5				ug/L	500173	Standard
|	Cd	111	338.7	4.4	0.0386	0.008	20.6	ug/L	334	Standard
|	Cd	114	15.7	74.8	-0.0007	0.003	404.7	ug/L	23	Standard
>	In	115	283527.5	0.4				ug/L	346567	Standard
>	Tb	159	360846.1	1.0				ug/L	442198	Standard
|	Ho	165	366988.4	1.8				ug/L	448954	Standard
|	Pb	208	4040.9	3.1	0.1282	0.005	3.8	ug/L	593	Standard
|	Bi	209	225903.2	0.5				ug/L	303890	Standard
|	Th	232	350310.2	0.6				ug/L	414939	Standard
|	Cr-1	52	480.0	2.9	0.7735	0.022	2.8	ug/L	44	KED
|	Cr-1	53	78.0	34.5	1.0579	0.393	37.1	ug/L	6	KED
>	Ge-1	72	5667.8	0.7				ug/L	5483	KED
|	As-2	75	40.0	18.0	1.3849	0.247	17.8	ug/L	0	KED
|	Y-1	89	10077.2	1.4				ug/L	9216	KED
|	Rh-1	103	62649.4	0.6				ug/L	66520	KED
|	Cd-1	111	0.3	173.2	-0.0152	0.005	30.8	ug/L	2	KED
|	Cd-1	114	1.8	85.6	-0.0066	0.005	72.7	ug/L	4	KED
>	In-1	115	6398.3	1.0				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		119.460
|	Cr	52		
|	Cr	53		
>	Ge	72		101.187
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-06c 2X

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Cd	114	
In	115	81.810
Tb	159	81.603
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.376
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	111.509

Quantitative Analysis - Summary Report

Sample ID: 02-067-06d 2X

Sample Date/Time: Thursday, February 10, 2022 11:13:12

Report Date/Time: Thursday, February 10, 2022 12:06:29

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-067-06d 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	639580.5	2.1				ug/L	381361	Standard
|	Cr	52	226208.6	3.8	15.4628	0.409	2.6	ug/L	3452	Standard
|	Cr	53	25905.8	4.6	15.7345	0.500	3.2	ug/L	126	Standard
[>	Ge	72	226522.1	5.0				ug/L	219214	Standard
|	As	75	11211.7	3.0	9.4510	0.260	2.7	ug/L	2513	Standard
|	As-1	75	8249.0	2.8	8.2305	0.185	2.2	ug/L	126	Standard
|	Se	77	116.3	22.4	1.0715	0.306	28.6	ug/L	35	Standard
|	Se	78	3927.9	2.9	3.2394	0.471	14.5	ug/L	2971	Standard
|	Br	79	34477.9	4.3				ug/L	172	Standard
|	Se	82	200.7	5.2	0.8177	0.145	17.8	ug/L	85	Standard
|	Kr	83	116.3	11.2				ug/L	76	Standard
|	Y	89	736407.3	2.0				ug/L	616650	Standard
|	Rh	103	424125.3	2.5				ug/L	500173	Standard
|	Cd	111	775.2	13.8	0.2807	0.055	19.6	ug/L	334	Standard
|	Cd	114	247.4	7.0	0.0535	0.005	9.2	ug/L	23	Standard
[>	In	115	292955.6	1.7				ug/L	346567	Standard
[>	Tb	159	384787.9	1.7				ug/L	442198	Standard
|	Ho	165	384584.6	1.0				ug/L	448954	Standard
|	Pb	208	222475.0	1.1	7.4997	0.070	0.9	ug/L	593	Standard
|	Bi	209	235603.6	1.7				ug/L	303890	Standard
|	Th	232	402432.3	1.4				ug/L	414939	Standard
|	Cr-1	52	13214.8	2.1	22.6823	0.090	0.4	ug/L	44	KED
|	Cr-1	53	1611.1	1.4	23.0142	0.407	1.8	ug/L	6	KED
[>	Ge-1	72	5856.9	1.7				ug/L	5483	KED
|	As-2	75	263.0	9.6	8.8148	0.852	9.7	ug/L	0	KED
|	Y-1	89	12979.2	2.8				ug/L	9216	KED
|	Rh-1	103	63954.2	2.0				ug/L	66520	KED
|	Cd-1	111	8.3	25.0	0.0468	0.016	34.7	ug/L	2	KED
|	Cd-1	114	15.7	16.4	0.0344	0.008	22.8	ug/L	4	KED
[>	In-1	115	6617.8	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		167.710
	Cr	52		
	Cr	53		
[>	Ge	72		103.334
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	84.531
Tb	159	87.017
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.824
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.334

Quantitative Analysis - Summary Report

Sample ID: 02-067-07d 2X

Sample Date/Time: Thursday, February 10, 2022 11:18:47

Report Date/Time: Thursday, February 10, 2022 12:06:32

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-067-07d 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	493855.7	0.5				ug/L	381361	Standard
|	Cr	52	24928.1	2.9	1.8588	0.054	2.9	ug/L	3452	Standard
|	Cr	53	2822.6	3.5	2.1091	0.068	3.2	ug/L	126	Standard
[>	Ge	72	236577.7	2.0				ug/L	219214	Standard
|	As	75	7266.6	2.9	4.7790	0.087	1.8	ug/L	2513	Standard
|	As-1	75	4350.2	1.9	4.0878	0.035	0.9	ug/L	126	Standard
|	Se	77	69.7	12.2	0.4139	0.124	29.9	ug/L	35	Standard
|	Se	78	3756.8	3.5	1.9802	0.218	11.0	ug/L	2971	Standard
|	Br	79	23607.2	2.2				ug/L	172	Standard
|	Se	82	154.3	4.0	0.4325	0.060	13.8	ug/L	85	Standard
|	Kr	83	90.0	7.8				ug/L	76	Standard
|	Y	89	638623.0	1.6				ug/L	616650	Standard
|	Rh	103	463192.8	0.9				ug/L	500173	Standard
|	Cd	111	474.1	5.5	0.0917	0.012	12.6	ug/L	334	Standard
|	Cd	114	72.3	6.8	0.0113	0.001	10.6	ug/L	23	Standard
[>	In	115	313366.3	1.0				ug/L	346567	Standard
[>	Tb	159	390614.3	0.4				ug/L	442198	Standard
|	Ho	165	396070.2	0.4				ug/L	448954	Standard
|	Pb	208	35763.9	0.4	1.1729	0.009	0.8	ug/L	593	Standard
|	Bi	209	255395.2	1.0				ug/L	303890	Standard
|	Th	232	378815.2	0.2				ug/L	414939	Standard
|	Cr-1	52	1200.4	3.8	1.8238	0.058	3.2	ug/L	44	KED
|	Cr-1	53	156.3	7.1	1.9699	0.168	8.5	ug/L	6	KED
[>	Ge-1	72	6357.4	1.4				ug/L	5483	KED
|	As-2	75	144.7	6.7	4.4638	0.238	5.3	ug/L	0	KED
|	Y-1	89	11401.9	2.6				ug/L	9216	KED
|	Rh-1	103	70601.4	2.5				ug/L	66520	KED
|	Cd-1	111	3.3	45.8	0.0062	0.011	178.3	ug/L	2	KED
|	Cd-1	114	4.4	55.9	-0.0001	0.007	10743.4	ug/L	4	KED
[>	In-1	115	7114.0	0.8				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		129.498
	Cr	52		
	Cr	53		
[>	Ge	72		107.921
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	90.420
Tb	159	88.335
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	115.954
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	123.982

Quantitative Analysis - Summary Report

Sample ID: 02-023-28e 2X

Sample Date/Time: Thursday, February 10, 2022 11:24:21

Report Date/Time: Thursday, February 10, 2022 12:06:34

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-023-28e 2X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	496048.8	2.7				ug/L	381361	Standard
|	Cr	52	9910.1	2.6	0.4903	0.006	1.2	ug/L	3452	Standard
|	Cr	53	1744.1	2.5	1.2483	0.051	4.1	ug/L	126	Standard
>	Ge	72	237050.4	3.8				ug/L	219214	Standard
|	As	75	3845.2	4.2	1.1817	0.126	10.7	ug/L	2513	Standard
|	As-1	75	1337.0	1.8	1.1641	0.062	5.3	ug/L	126	Standard
|	Se	77	124.0	7.8	1.1083	0.178	16.1	ug/L	35	Standard
|	Se	78	3620.1	6.1	1.4635	0.573	39.1	ug/L	2971	Standard
|	Br	79	82885.2	2.1				ug/L	172	Standard
|	Se	82	286.0	1.4	1.3373	0.047	3.5	ug/L	85	Standard
|	Kr	83	83.0	10.3				ug/L	76	Standard
|	Y	89	615246.7	2.6				ug/L	616650	Standard
|	Rh	103	459896.2	2.8				ug/L	500173	Standard
|	Cd	111	409.6	4.2	0.0549	0.004	7.6	ug/L	334	Standard
|	Cd	114	344.1	7.8	0.0700	0.004	5.8	ug/L	23	Standard
>	In	115	316802.1	2.4				ug/L	346567	Standard
>	Tb	159	398031.1	1.7				ug/L	442198	Standard
|	Ho	165	402669.2	1.9				ug/L	448954	Standard
|	Pb	208	2906.1	2.5	0.0775	0.001	1.2	ug/L	593	Standard
|	Bi	209	259660.8	1.2				ug/L	303890	Standard
|	Th	232	386898.2	1.1				ug/L	414939	Standard
|	Cr-1	52	325.7	1.2	0.4299	0.011	2.5	ug/L	44	KED
|	Cr-1	53	36.7	6.9	0.3816	0.028	7.4	ug/L	6	KED
>	Ge-1	72	6432.8	1.0				ug/L	5483	KED
|	As-2	75	32.0	8.3	0.9759	0.073	7.5	ug/L	0	KED
|	Y-1	89	10927.8	1.5				ug/L	9216	KED
|	Rh-1	103	70015.8	0.7				ug/L	66520	KED
|	Cd-1	111	13.3	64.7	0.0778	0.062	79.4	ug/L	2	KED
|	Cd-1	114	23.4	25.7	0.0521	0.016	31.5	ug/L	4	KED
>	In-1	115	7143.5	0.3				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		130.073
	Cr	52		
	Cr	53		
>	Ge	72		108.137
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	91.411
Tb	159	90.012
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	117.328
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	124.496

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 10, 2022 11:36:12

Report Date/Time: Thursday, February 10, 2022 12:06:36

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	418191.6	2.6				ug/L	381361	Standard
|	Cr	52	403028.6	3.3	42.8345	0.305	0.7	ug/L	3452	Standard
|	Cr	53	46400.3	3.6	43.3298	0.426	1.0	ug/L	126	Standard
>	Ge	72	242791.9	4.0				ug/L	219214	Standard
|	As	75	43865.2	3.7	42.0178	0.619	1.5	ug/L	2513	Standard
|	As-1	75	43767.4	3.6	41.2381	0.465	1.1	ug/L	126	Standard
|	Se	77	3437.7	6.5	42.3396	1.748	4.1	ug/L	35	Standard
|	Se	78	15428.3	3.6	42.5808	0.749	1.8	ug/L	2971	Standard
|	Br	79	1271.4	8.1				ug/L	172	Standard
|	Se	82	6032.3	3.1	39.9218	0.373	0.9	ug/L	85	Standard
|	Kr	83	96.0	7.3				ug/L	76	Standard
|	Y	89	609696.9	2.8				ug/L	616650	Standard
|	Rh	103	481790.0	1.5				ug/L	500173	Standard
|	Cd	111	82503.7	2.7	42.5977	0.775	1.8	ug/L	334	Standard
|	Cd	114	201970.3	1.4	42.9989	0.157	0.4	ug/L	23	Standard
>	In	115	322491.6	1.4				ug/L	346567	Standard
>	Tb	159	391454.5	0.5				ug/L	442198	Standard
|	Ho	165	396781.1	0.9				ug/L	448954	Standard
|	Pb	208	1237478.3	0.9	41.0807	0.493	1.2	ug/L	593	Standard
|	Bi	209	271506.1	0.4				ug/L	303890	Standard
|	Th	232	375595.7	0.8				ug/L	414939	Standard
|	Cr-1	52	24457.6	2.4	36.7319	0.371	1.0	ug/L	44	KED
|	Cr-1	53	2960.3	1.3	37.0148	0.950	2.6	ug/L	6	KED
>	Ge-1	72	6703.6	2.7				ug/L	5483	KED
|	As-2	75	1453.1	5.6	42.5458	2.190	5.1	ug/L	0	KED
|	Y-1	89	10938.2	2.3				ug/L	9216	KED
|	Rh-1	103	75511.1	1.5				ug/L	66520	KED
|	Cd-1	111	6019.6	1.8	40.7541	0.586	1.4	ug/L	2	KED
|	Cd-1	114	15103.4	2.0	39.0584	0.088	0.2	ug/L	4	KED
>	In-1	115	7581.7	2.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.658
|	Cr	52		
|	Cr	53		
>	Ge	72		110.756
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 6

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Cd	114	
In	115	93.053
Tb	159	88.525
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	122.267
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	132.133

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 10, 2022 11:47:56

Report Date/Time: Thursday, February 10, 2022 12:06:38

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	419097.1	2.0				ug/L	381361	Standard
|	Cr	52	202615.8	2.8	21.2860	0.205	1.0	ug/L	3452	Standard
|	Cr	53	22710.4	3.0	21.0960	0.222	1.1	ug/L	126	Standard
>	Ge	72	237247.4	2.6				ug/L	219214	Standard
|	As	75	22977.9	1.6	21.2056	0.306	1.4	ug/L	2513	Standard
|	As-1	75	21404.4	1.9	20.5732	0.252	1.2	ug/L	126	Standard
|	Se	77	1697.1	4.1	21.1548	0.380	1.8	ug/L	35	Standard
|	Se	78	9327.4	2.6	21.9392	0.070	0.3	ug/L	2971	Standard
|	Br	79	594.0	4.8				ug/L	172	Standard
|	Se	82	2958.6	3.5	19.7150	0.222	1.1	ug/L	85	Standard
|	Kr	83	101.7	10.9				ug/L	76	Standard
|	Y	89	594371.7	2.3				ug/L	616650	Standard
|	Rh	103	468767.3	1.3				ug/L	500173	Standard
|	Cd	111	41096.8	2.2	21.7578	0.467	2.1	ug/L	334	Standard
|	Cd	114	97016.8	0.7	21.2518	0.090	0.4	ug/L	23	Standard
>	In	115	313396.7	0.8				ug/L	346567	Standard
>	Tb	159	383376.3	0.7				ug/L	442198	Standard
|	Ho	165	387768.4	0.5				ug/L	448954	Standard
|	Pb	208	602632.1	0.8	20.4180	0.104	0.5	ug/L	593	Standard
|	Bi	209	267405.6	0.8				ug/L	303890	Standard
|	Th	232	370507.2	0.4				ug/L	414939	Standard
|	Cr-1	52	11926.6	0.4	18.0525	0.432	2.4	ug/L	44	KED
|	Cr-1	53	1484.1	4.9	18.6775	0.554	3.0	ug/L	6	KED
>	Ge-1	72	6637.9	2.0				ug/L	5483	KED
|	As-2	75	726.4	2.7	21.4764	0.429	2.0	ug/L	0	KED
|	Y-1	89	10888.5	1.5				ug/L	9216	KED
|	Rh-1	103	73752.9	1.3				ug/L	66520	KED
|	Cd-1	111	2905.0	1.2	19.8203	0.267	1.3	ug/L	2	KED
|	Cd-1	114	7487.3	1.9	19.5165	0.258	1.3	ug/L	4	KED
>	In-1	115	7519.1	0.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.895
|	Cr	52		
|	Cr	53		
>	Ge	72		108.227
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 7

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	Cd	114	
>	In	115	90.429
>	Tb	159	86.698
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	121.069
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	131.042

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 10, 2022 11:53:32

Report Date/Time: Thursday, February 10, 2022 12:06:40

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	425039.7	0.2				ug/L	381361	Standard
|	Cr	52	4833.8	3.1	0.1041	0.016	15.8	ug/L	3452	Standard
|	Cr	53	187.7	11.3	0.0432	0.019	44.6	ug/L	126	Standard
>	Ge	72	245145.9	0.7				ug/L	219214	Standard
|	As	75	3040.1	1.4	0.2324	0.023	9.8	ug/L	2513	Standard
|	As-1	75	119.7	26.7	-0.0194	0.031	158.4	ug/L	126	Standard
|	Se	77	39.0	21.0	0.0031	0.102	3291.0	ug/L	35	Standard
|	Se	78	3596.5	1.8	0.9525	0.137	14.4	ug/L	2971	Standard
|	Br	79	527.3	3.5				ug/L	172	Standard
|	Se	82	89.3	10.4	-0.0378	0.066	173.5	ug/L	85	Standard
|	Kr	83	85.3	1.4				ug/L	76	Standard
|	Y	89	612979.2	1.1				ug/L	616650	Standard
|	Rh	103	483292.0	1.6				ug/L	500173	Standard
|	Cd	111	343.4	7.4	0.0202	0.012	57.5	ug/L	334	Standard
|	Cd	114	18.1	23.4	-0.0006	0.001	156.9	ug/L	23	Standard
>	In	115	316520.6	1.6				ug/L	346567	Standard
>	Tb	159	392368.0	0.3				ug/L	442198	Standard
|	Ho	165	395185.2	1.1				ug/L	448954	Standard
|	Pb	208	708.3	2.0	0.0060	0.000	6.8	ug/L	593	Standard
|	Bi	209	270967.5	1.1				ug/L	303890	Standard
|	Th	232	376526.4	1.3				ug/L	414939	Standard
|	Cr-1	52	48.3	11.4	-0.0093	0.007	73.2	ug/L	44	KED
|	Cr-1	53	5.3	60.3	-0.0305	0.042	136.8	ug/L	6	KED
>	Ge-1	72	6799.6	2.3				ug/L	5483	KED
|	As-2	75	0.7	173.2	0.0190	0.033	173.2	ug/L	0	KED
|	Y-1	89	11330.8	0.7				ug/L	9216	KED
|	Rh-1	103	76494.6	1.2				ug/L	66520	KED
|	Cd-1	111	2.0	50.0	-0.0045	0.007	143.3	ug/L	2	KED
|	Cd-1	114	4.0	75.9	-0.0019	0.008	408.5	ug/L	4	KED
>	In-1	115	7647.8	1.6				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.454
|	Cr	52		
|	Cr	53		
>	Ge	72		111.830
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Thursday, February 10, 2022 12:06:40

Page 1

Cd	114	
In	115	91.330
Tb	159	88.731
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	124.019
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	133.284

Dissolved Metals
EPA 200.8/7470A Data



KKH 2/9/22

Summary

Worksheet Name	B220209b.esws	Created Date/Time (local)	2/9/2022 9:34:25 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	2/9/2022 5:34:25 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaepoul
File Path	C:\Users\kkhazaepoul\Documents\Agilent\ICP Expert\My Results\B220209b.esws		

Notes



Results

Solution Label	Mn (257.610 nm)
Blank	0.00 (ppb)
Standard 5	10.00 (ppb)
Standard 4	100.00 (ppb)
Standard 3	1000.00 (ppb)
Standard 2	2500.00 (ppb)
Standard 1	5000.00 (ppb)
SI 100	
SI 1000	
SI 5000	
ICV	1015.18 (ppb)
ICB	0.00 u (ppb)
LLV	10.68 (ppb)
CCV	1001.61 (ppb)
CCB	0.04 u (ppb)
ICSA	3.71 (ppb)
ICSAB	422.18 (ppb)
MB0209SM1	1.49 (ppb)
SB0209SM1	1.52 (ppb)
02-067-01a	1216.60 (ppb)
02-067-01a D	893.28 (ppb)
02-067-01a L	250.11 (ppb)
02-067-01a MS	1096.96 (ppb)
02-067-01a MSD	1085.39 (ppb)
02-095-02c	4283.12 (ppb)
CCV	957.16 (ppb)
CCB	-0.10 u (ppb)
02-067-02a	1592.03 (ppb)
02-067-03a	4566.43 (ppb)
02-067-04a	5247.61 (ppb)
02-067-05a	3943.47 (ppb)
02-094-01	1607.27 (ppb)
02-067-01a(0209SM2)	1355.87 (ppb)
02-067-01a D	1361.78 (ppb)
02-067-01a L	277.72 (ppb)
02-067-01a MS	1304.31 (ppb)

Test Report



Agilent Technologies

Solution Label	Mn (257.610 nm)
02-067-01a MSD	1332.06 (ppb)
CCV	954.35 (ppb)
CCB	0.03 u (ppb)
MB0209SM2	1.98 (ppb)
SB0209SM2	1.28 (ppb)
02-095-02c	4386.56 (ppb)
02-067-02a	1483.93 (ppb)
02-067-03a	4480.00 (ppb)
02-067-04a	4047.66 (ppb)
02-067-05a	3688.40 (ppb)
02-094-01	1770.92 (ppb)
BLK	0.06 u (ppb)
MB0209D1 X 1.11	0.21 u (ppb)
CCV	910.61 (ppb)
CCB	0.05 u (ppb)
SB0209D1 X 1.11	453.29 (ppb)
02-050-01k X 1.11	233.39 (ppb)
02-050-01k D X 1.11	233.29 (ppb)
02-050-01k L	46.86 (ppb)
02-050-01k-MS X 1.11	687.89 (ppb)
02-050-01k MSD X 1.11	683.91 (ppb)
02-068-01d X 1.11	49.89 (ppb)
02-068-02d X 1.11	133.99 (ppb)
02-068-03d X 1.11	90.64 (ppb)
02-068-04d X 1.11	92.75 (ppb)
CCV	941.00 (ppb)
CCB	0.14 (ppb)
02-068-05d X 1.11	1438.40 (ppb)
02-068-06d X 1.11	4321.37 (ppb)
02-092-01d X 1.11	139.83 (ppb)
02-092-02d X 1.11	21.44 (ppb)
MB0209WH1	0.02 u (ppb)
SB0209WH1	0.08 (ppb)

Test Report



Agilent Technologies

Solution Label	Mn (257.610 nm)
01-205-12c	663.77 (ppb)
01-205-12c D	700.11 (ppb)
01-205-12c L	135.34 (ppb)
01-205-12c MS	692.01 (ppb)
CCV	954.65 (ppb)
CCB	0.30 (ppb)
01-205-12c MSD	659.13 (ppb)
02-070-02	73.40 (ppb)
02-070-03	171.06 (ppb)
MB0209SH1	11.51 (ppb)
SB0209SH1	491.50 (ppb)

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02-2022 February\I220211W1.wszf

Creation Date: 2/11/2022 10:00:20 AM

Comment:

KOM
2-11-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/11/22 12:40:35 pm	0.00000	226	6.38			N/A
Standard #1	STD	02/11/22 12:43:06 pm	0.01000	388	0.21	14.93%		N/A
Standard #2	STD	02/11/22 12:45:38 pm	0.05000	922	0.60	-1.08%		N/A
Standard #3	STD	02/11/22 12:48:10 pm	0.50000	7262	0.26	0.01%		N/A
Standard #4	STD	02/11/22 12:50:43 pm	2.50000	33594	0.56	-5.14%		N/A
Standard #5	STD	02/11/22 12:53:15 pm	5.00000	71482	0.39	1.29%		N/A

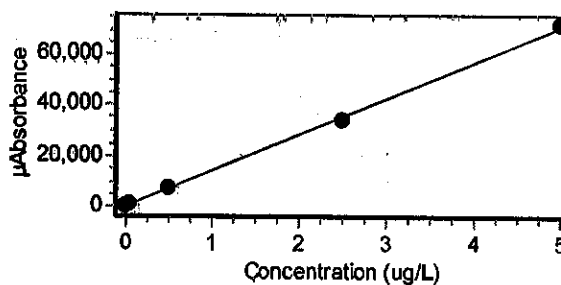
Calibration

Equation: Abs = 14070.443x + 226.086

R2: 0.99890 RSE: 9.17%

SEE: 1167.3500

Flags:



ICV	ICV	02/11/22 12:56:42 pm	2.79500	39553	0.21			111.80
ICV	ICV	02/11/22 12:59:27 pm	2.60880	36933	0.38			104.35
ICB	ICB	02/11/22 01:03:32 pm	0.00209	256	27.92			N/A
CCV	CCV	02/11/22 01:06:04 pm	2.50870	35524	0.35			100.35
CCB	CCB	02/11/22 01:08:38 pm	0.00179	251	32.29			N/A
MB0211W1	UNK	02/11/22 01:11:07 pm	0.00353	276	20.65			N/A
SB0211W1	UNK	02/11/22 01:13:39 pm	2.43830	34535	0.60			N/A
02-068-02c	UNK	02/11/22 01:16:11 pm	0.00347	275	15.81			N/A
02-068-02cD	UNK	02/11/22 01:18:43 pm	0.00544	303	21.49			N/A
02-068-02c L	UNK	02/11/22 01:21:15 pm	0.00274	265	20.60			N/A
02-068-02c MS	UNK	02/11/22 01:23:48 pm	2.44500	34629	0.34			N/A
02-068-02c MSD	UNK	02/11/22 01:26:20 pm	2.41150	34157	0.36			N/A
02-068-01c	UNK	02/11/22 01:28:54 pm	0.00168	250	56.10			N/A
02-068-03c	UNK	02/11/22 01:31:25 pm	0.00506	297	12.06			N/A
02-068-04c	UNK	02/11/22 01:33:57 pm	0.00461	291	12.25			N/A
CCV	CCV	02/11/22 01:36:29 pm	2.51340	35590	0.26			100.53
CCB	CCB	02/11/22 01:39:01 pm	0.00336	273	30.05			N/A
02-068-05c	UNK	02/11/22 01:41:33 pm	0.00558	305	6.30			N/A
02-068-06c	UNK	02/11/22 01:44:05 pm	0.00580	308	22.24			N/A
02-092-01c	UNK	02/11/22 01:50:45 pm	0.00674	321	9.06			N/A
02-092-02c	UNK	02/11/22 01:53:18 pm	0.00628	314	16.88			N/A
02-067-06d	UNK	02/11/22 01:55:51 pm	0.03320	693	2.18			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	% Recovery
02-067-07c	UNK	02/11/22 01:58:23 pm	0.01630	455	2.66		N/A
02-023-28e	UNK	02/11/22 02:00:55 pm	0.00469	292	26.85		N/A
CCV	CCV	02/11/22 02:03:27 pm	2.50470	35468	0.25		100.19
CCB	CCB	02/11/22 02:05:59 pm	0.00435	287	19.01		N/A
02-070-02	UNK	02/11/22 02:08:31 pm	0.03453	712	2.08		N/A
02-070-03	UNK	02/11/22 02:11:23 pm	0.02775	617	3.75		N/A
CCB	CCB	02/11/22 02:13:54 pm	0.00369	278	19.74		N/A
CCV	CCV	02/11/22 02:16:26 pm	2.34020	33154	0.16		93.61
CCB	CCB	02/11/22 02:18:58 pm	0.00310	270	17.86		N/A
MB0211D1	UNK	02/11/22 02:34:25 pm	2.40800	34107	0.40		N/A
SB0211D1	UNK	02/11/22 02:37:18 pm	0.00130	244	83.19		N/A
02-068-01d	UNK	02/11/22 02:43:33 pm	0.00586	309	12.63		N/A
02-068-01d D	UNK	02/11/22 02:46:05 pm	0.00493	296	11.63		N/A
02-068-01d L	UNK	02/11/22 02:48:38 pm	0.00083	238	86.02		N/A
02-068-01d MS	UNK	02/11/22 02:51:10 pm	2.37060	33581	0.32		N/A
02-068-01d MSD	UNK	02/11/22 02:53:43 pm	2.38630	33802	0.47		N/A
02-068-02d	UNK	02/11/22 02:56:16 pm	0.00282	266	41.26		N/A
02-068-03d	UNK	02/11/22 02:58:47 pm	0.00356	276	19.76		N/A
02-068-04d	UNK	02/11/22 03:01:19 pm	0.00295	268	28.60		N/A
CCV	CCV	02/11/22 03:03:51 pm	2.49270	35299	0.24		99.71
CCB	CCB	02/11/22 03:06:23 pm	0.00254	262	4.32		N/A
02-068-05d	UNK	02/11/22 03:10:14 pm	0.00473	293	28.74		N/A
02-068-06d	UNK	02/11/22 03:12:47 pm	0.00499	296	14.70		N/A
02-092-01d	UNK	02/11/22 03:15:19 pm	0.00437	288	12.14		N/A
02-092-02d	UNK	02/11/22 03:17:52 pm	0.00552	304	14.60		N/A
CCV	CCV	02/11/22 03:20:24 pm	2.49250	35296	0.23		99.70
CCB	CCB	02/11/22 03:24:15 pm	0.00363	277	12.47		N/A
MDL 1	UNK	02/11/22 03:26:48 pm	-0.00009	225	781.07		N/A
MDL 2	UNK	02/11/22 03:29:20 pm	-0.00029	222	179.58		N/A
MDL 3	UNK	02/11/22 03:33:29 pm	-0.00025	223	106.67		N/A
MDL 4	UNK	02/11/22 03:36:01 pm	-0.00048	219	72.89		N/A

MDL
2-14-22

Dataset Report

2-8-22
KCM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220208B\
Report Date/Time: Tuesday, February 08, 2022 12:36:07

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	09:40:59 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\Sample.001	
	Sample	09:45:29 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\Sample.002	
	Blank	09:49:59 Tue 08-F	Blank	C:\NexIONData_kmckinney\DataSet\X220208B\Blank.003	
	Standard 1	09:53:38 Tue 08-F	Standard #1	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 1.004	
	Standard 2	09:57:18 Tue 08-F	Standard #2	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 2.005	
	Standard 3	10:00:57 Tue 08-F	Standard #3	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 3.006	
	Standard 4	10:04:36 Tue 08-F	Standard #4	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 4.007	
	Standard 5	10:08:16 Tue 08-F	Standard #5	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 5.008	
	Standard 6	10:11:56 Tue 08-F	Standard #6	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 6.009	
	Standard 7	10:15:35 Tue 08-F	Standard #7	C:\NexIONData_kmckinney\DataSet\X220208B\Standard 7.010	
	QC Std 1	10:20:05 Tue 08-F	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 1.011	
	QC Std 2	10:32:22 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 2.014	
	QC Std 6	10:36:51 Tue 08-F	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 6.015	
	QC Std 7	10:41:21 Tue 08-F	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 7.016	
	QC Std 8	10:45:50 Tue 08-F	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 8.017	
	MB0208D1 2X	10:55:15 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\MB0208D1 2X.018	
	SB0208D1 2X	10:59:45 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\SB0208D1 2X.019	
	02-068-01d 2X	11:04:13 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01d 2X.020	
	02-068-02d 2X	11:08:42 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-02d 2X.021	
	02-068-03d 2X	11:13:09 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-03d 2X.022	
	02-068-04d 2X	11:17:37 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-04d 2X.023	
	02-068-05d 2X	11:22:04 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-05d 2X.024	
	02-068-06d 2X	11:26:33 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-06d 2X.025	
	QC Std 6	11:31:03 Tue 08-F	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 6.026	
	QC Std 7	11:35:31 Tue 08-F	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 7.027	
	QC Std 8	11:40:01 Tue 08-F	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 8.028	
	02-068-01dD 2X	11:44:25 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dD 2X.029	
	02-068-01dL 10X	11:48:54 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dL 10X.030	
	02-068-01dMS 2X	11:53:23 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dMS 2X.031	
	02-068-01dMSD 2X	11:57:51 Tue 08-F	Sample	C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dMSD 2X.032	
	QC Std 6	12:02:19 Tue 08-F	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 6.033	
	QC Std 7	12:06:50 Tue 08-F	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 7.034	
	QC Std 8	12:11:19 Tue 08-F	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 8.035	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, February 08, 2022 09:49:59

Report Date/Time: Tuesday, February 08, 2022 12:34:44

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Blank.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	502407.5	1.1				ug/L		Standard
|	Cr	52	5150.3	1.4				ug/L		Standard
|	Cr	53	183.3	6.8				ug/L		Standard
>	Ge	72	290606.1	2.6				ug/L		Standard
|	As	75	3626.9	1.6				ug/L		Standard
|	As-1	75	77.3	33.2				ug/L		Standard
|	Se	77	61.3	10.6				ug/L		Standard
|	Se	78	4309.7	1.2				ug/L		Standard
|	Br	79	239.0	1.8				ug/L		Standard
|	Se	82	84.3	7.1				ug/L		Standard
|	Kr	83	76.0	3.5				ug/L		Standard
|	Y	89	713390.0	0.9				ug/L		Standard
|	Rh	103	551748.8	0.7				ug/L		Standard
|	Cd	111	385.8	2.0				ug/L		Standard
|	Cd	114	16.7	47.4				ug/L		Standard
>	In	115	363277.2	0.9				ug/L		Standard
>	Tb	159	419625.4	0.9				ug/L		Standard
|	Ho	165	415867.1	1.7				ug/L		Standard
|	Pb	208	693.3	5.0				ug/L		Standard
|	Bi	209	277440.2	1.5				ug/L		Standard
|	Th	232	412751.5	0.2				ug/L		Standard
|	Cr-1	52	37.7	12.3				ug/L		KED
|	Cr-1	53	4.7	53.9				ug/L		KED
>	Ge-1	72	7220.2	1.2				ug/L		KED
|	As-2	75	0.3	173.2				ug/L		KED
|	Y-1	89	12742.7	1.2				ug/L		KED
|	Rh-1	103	84467.7	0.8				ug/L		KED
|	Cd-1	111	0.7	86.6				ug/L		KED
|	Cd-1	114	2.8	42.4				ug/L		KED
>	In-1	115	8363.2	0.8				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Blank

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, February 08, 2022 09:53:38

Report Date/Time: Tuesday, February 08, 2022 12:34:46

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 1.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	467772.3	2.2				ug/L	502408	Standard
|	Cr	52	7890.5	3.0				ug/L	5150	Standard
|	Cr	53	487.3	4.5				ug/L	183	Standard
[>	Ge	72	269675.2	2.4				ug/L	290606	Standard
|	As	75	3909.2	3.0				ug/L	3627	Standard
|	As-1	75	380.6	5.8	0.2000	0.014	6.8	ug/L	77	Standard
|	Se	77	73.0	10.7				ug/L	61	Standard
|	Se	78	4396.3	2.8				ug/L	4310	Standard
|	Br	79	231.0	4.8				ug/L	239	Standard
|	Se	82	128.0	4.7				ug/L	84	Standard
|	Kr	83	70.0	17.4				ug/L	76	Standard
|	Y	89	662160.7	2.1				ug/L	713390	Standard
|	Rh	103	506042.6	0.9				ug/L	551749	Standard
|	Cd	111	832.6	6.6	0.2000	0.023	11.5	ug/L	386	Standard
|	Cd	114	1132.9	0.2	0.2000	0.001	0.3	ug/L	17	Standard
[>	In	115	338070.5	0.3				ug/L	363277	Standard
[>	Tb	159	388179.1	0.8				ug/L	419625	Standard
|	Ho	165	390539.9	1.0				ug/L	415867	Standard
|	Pb	208	6629.9	1.2	0.2000	0.002	0.9	ug/L	693	Standard
|	Bi	209	261221.8	0.9				ug/L	277440	Standard
|	Th	232	392871.6	0.2				ug/L	412751	Standard
|	Cr-1	52	195.0	9.4				ug/L	38	KED
|	Cr-1	53	20.0	22.9				ug/L	5	KED
[>	Ge-1	72	6764.6	1.3				ug/L	7220	KED
|	As-2	75	9.0	11.1	0.2000	0.021	10.5	ug/L	0	KED
|	Y-1	89	11798.2	0.3				ug/L	12743	KED
|	Rh-1	103	78697.5	0.8				ug/L	84468	KED
|	Cd-1	111	34.3	23.4	0.2000	0.044	22.2	ug/L	1	KED
|	Cd-1	114	87.3	5.8	0.2000	0.013	6.3	ug/L	3	KED
[>	In-1	115	7667.4	1.9				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 1

Report Date/Time: Tuesday, February 08, 2022 12:34:46

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, February 08, 2022 09:57:18

Report Date/Time: Tuesday, February 08, 2022 12:34:48

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 2.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	481068.4	1.0				ug/L	502408	Standard
|	Cr	52	11538.7	3.1	0.5000	0.019	3.8	ug/L	5150	Standard
|	Cr	53	927.0	4.1	0.5000	0.019	3.9	ug/L	183	Standard
>	Ge	72	277230.1	3.6				ug/L	290606	Standard
|	As	75	4275.2	1.5	0.5000	0.056	11.1	ug/L	3627	Standard
|	As-1	75	783.8	10.5	0.4919	0.049	9.9	ug/L	77	Standard
|	Se	77	102.7	8.8	0.5000	0.129	25.9	ug/L	61	Standard
|	Se	78	4485.4	1.3				ug/L	4310	Standard
|	Br	79	232.3	2.8				ug/L	239	Standard
|	Se	82	180.0	15.9	0.5000	0.131	26.2	ug/L	84	Standard
|	Kr	83	73.0	19.2				ug/L	76	Standard
|	Y	89	676009.7	0.9				ug/L	713390	Standard
|	Rh	103	520224.3	1.8				ug/L	551749	Standard
|	Cd	111	1490.2	1.2	0.4962	0.012	2.4	ug/L	386	Standard
|	Cd	114	2714.9	0.7	0.4971	0.002	0.4	ug/L	17	Standard
>	In	115	340466.2	0.8				ug/L	363277	Standard
>	Tb	159	400901.3	0.7				ug/L	419625	Standard
|	Ho	165	395820.0	1.7				ug/L	415867	Standard
|	Pb	208	15954.2	0.6	0.4992	0.002	0.5	ug/L	693	Standard
|	Bi	209	262244.3	0.9				ug/L	277440	Standard
|	Th	232	398251.5	0.3				ug/L	412751	Standard
|	Cr-1	52	428.3	3.6	0.5000	0.017	3.4	ug/L	38	KED
|	Cr-1	53	43.7	10.8	0.5000	0.064	12.8	ug/L	5	KED
>	Ge-1	72	6809.6	0.6				ug/L	7220	KED
|	As-2	75	17.7	31.2	0.4827	0.151	31.3	ug/L	0	KED
|	Y-1	89	11784.9	1.6				ug/L	12743	KED
|	Rh-1	103	78874.2	0.8				ug/L	84468	KED
|	Cd-1	111	80.3	5.2	0.4948	0.026	5.3	ug/L	1	KED
|	Cd-1	114	197.6	11.0	0.4926	0.054	11.0	ug/L	3	KED
>	In-1	115	7817.9	0.8				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 2

Report Date/Time: Tuesday, February 08, 2022 12:34:48

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, February 08, 2022 10:00:57

Report Date/Time: Tuesday, February 08, 2022 12:34:51

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 3.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	494423.5	2.1				ug/L	502408	Standard
|	Cr	52	29478.7	1.8	1.9869	0.034	1.7	ug/L	5150	Standard
|	Cr	53	2980.0	3.2	1.9880	0.100	5.0	ug/L	183	Standard
>	Ge	72	282498.7	2.9				ug/L	290606	Standard
|	As	75	6027.6	4.2	1.9617	0.128	6.5	ug/L	3627	Standard
|	As-1	75	2576.8	3.4	1.9766	0.049	2.5	ug/L	77	Standard
|	Se	77	240.7	3.3	2.0003	0.153	7.7	ug/L	61	Standard
|	Se	78	4981.9	3.4	2.0000	0.246	12.3	ug/L	4310	Standard
|	Br	79	210.3	6.1				ug/L	239	Standard
|	Se	82	394.0	2.2	1.9658	0.112	5.7	ug/L	84	Standard
|	Kr	83	89.0	16.6				ug/L	76	Standard
|	Y	89	693079.9	0.7				ug/L	713390	Standard
|	Rh	103	534786.3	1.5				ug/L	551749	Standard
|	Cd	111	4853.2	2.3	1.9930	0.057	2.9	ug/L	386	Standard
|	Cd	114	10881.8	0.6	1.9953	0.019	1.0	ug/L	17	Standard
>	In	115	352629.6	0.4				ug/L	363277	Standard
>	Tb	159	410147.5	1.5				ug/L	419625	Standard
|	Ho	165	405068.5	0.9				ug/L	415867	Standard
|	Pb	208	62225.0	0.6	1.9976	0.038	1.9	ug/L	693	Standard
|	Bi	209	270860.1	1.6				ug/L	277440	Standard
|	Th	232	408011.1	0.8				ug/L	412751	Standard
|	Cr-1	52	1512.1	3.3	1.9877	0.084	4.2	ug/L	38	KED
|	Cr-1	53	175.3	5.9	2.0053	0.127	6.3	ug/L	5	KED
>	Ge-1	72	7066.4	1.7				ug/L	7220	KED
|	As-2	75	67.3	8.7	1.9849	0.179	9.0	ug/L	0	KED
|	Y-1	89	12342.7	0.2				ug/L	12743	KED
|	Rh-1	103	81861.5	0.4				ug/L	84468	KED
|	Cd-1	111	324.0	3.1	1.9957	0.058	2.9	ug/L	1	KED
|	Cd-1	114	799.9	2.9	1.9963	0.060	3.0	ug/L	3	KED
>	In-1	115	8093.1	0.2				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 3

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, February 08, 2022 10:04:36

Report Date/Time: Tuesday, February 08, 2022 12:34:52

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 4.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	454822.8	1.7				ug/L	502408	Standard
|	Cr	52	60267.9	3.2	4.9880	0.085	1.7	ug/L	5150	Standard
|	Cr	53	6471.5	3.7	4.9797	0.110	2.2	ug/L	183	Standard
>	Ge	72	263348.7	3.2				ug/L	290606	Standard
|	As	75	9236.3	3.2	5.0008	0.086	1.7	ug/L	3627	Standard
|	As-1	75	6031.4	3.3	5.0076	0.079	1.6	ug/L	77	Standard
|	Se	77	521.3	5.9	5.0681	0.177	3.5	ug/L	61	Standard
|	Se	78	5882.2	3.2	5.0459	0.297	5.9	ug/L	4310	Standard
|	Br	79	196.7	6.6				ug/L	239	Standard
|	Se	82	860.4	5.4	5.0407	0.295	5.9	ug/L	84	Standard
|	Kr	83	84.7	4.8				ug/L	76	Standard
|	Y	89	646610.7	0.5				ug/L	713390	Standard
|	Rh	103	497995.5	0.6				ug/L	551749	Standard
|	Cd	111	10923.6	0.4	5.0034	0.041	0.8	ug/L	386	Standard
|	Cd	114	25489.0	0.3	4.9992	0.032	0.6	ug/L	17	Standard
>	In	115	330275.3	0.6				ug/L	363277	Standard
>	Tb	159	388459.0	1.0				ug/L	419625	Standard
|	Ho	165	375829.7	0.7				ug/L	415867	Standard
|	Pb	208	145937.2	0.5	4.9968	0.035	0.7	ug/L	693	Standard
|	Bi	209	254378.5	0.7				ug/L	277440	Standard
|	Th	232	381880.9	0.4				ug/L	412751	Standard
|	Cr-1	52	3427.7	1.4	4.9852	0.076	1.5	ug/L	38	KED
|	Cr-1	53	412.7	4.5	5.0200	0.254	5.1	ug/L	5	KED
>	Ge-1	72	6592.2	0.5				ug/L	7220	KED
|	As-2	75	164.3	7.9	5.0291	0.374	7.4	ug/L	0	KED
|	Y-1	89	11531.7	1.6				ug/L	12743	KED
|	Rh-1	103	76215.5	1.2				ug/L	84468	KED
|	Cd-1	111	730.7	2.5	4.9808	0.187	3.8	ug/L	1	KED
|	Cd-1	114	1938.7	2.5	5.0338	0.088	1.7	ug/L	3	KED
>	In-1	115	7488.1	1.5				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Tuesday, February 08, 2022 12:34:52

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Tuesday, February 08, 2022 10:08:16

Report Date/Time: Tuesday, February 08, 2022 12:34:54

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 5.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	489488.2	1.7				ug/L	502408	Standard
|	Cr	52	236523.7	2.5	19.9505	0.177	0.9	ug/L	5150	Standard
|	Cr	53	26242.1	2.0	19.9384	0.500	2.5	ug/L	183	Standard
[>	Ge	72	280435.8	1.4				ug/L	290606	Standard
|	As	75	27683.7	2.5	19.9350	0.332	1.7	ug/L	3627	Standard
|	As-1	75	25097.7	2.7	19.9818	0.350	1.8	ug/L	77	Standard
|	Se	77	2073.5	1.7	20.0394	0.198	1.0	ug/L	61	Standard
|	Se	78	11117.7	1.5	19.7339	0.092	0.5	ug/L	4310	Standard
|	Br	79	225.7	7.6				ug/L	239	Standard
|	Se	82	3203.7	1.7	19.9170	0.198	1.0	ug/L	84	Standard
|	Kr	83	89.7	6.7				ug/L	76	Standard
|	Y	89	685937.4	1.6				ug/L	713390	Standard
|	Rh	103	527514.8	1.1				ug/L	551749	Standard
|	Cd	111	44890.1	0.2	19.9755	0.284	1.4	ug/L	386	Standard
|	Cd	114	106131.3	0.6	19.9595	0.269	1.3	ug/L	17	Standard
[>	In	115	354139.3	1.2				ug/L	363277	Standard
[>	Tb	159	411449.7	0.8				ug/L	419625	Standard
|	Ho	165	406443.9	0.5				ug/L	415867	Standard
|	Pb	208	608554.7	0.3	19.9819	0.224	1.1	ug/L	693	Standard
|	Bi	209	273268.3	0.5				ug/L	277440	Standard
|	Th	232	408706.8	0.5				ug/L	412751	Standard
|	Cr-1	52	14224.4	0.6	19.9875	0.429	2.1	ug/L	38	KED
|	Cr-1	53	1785.8	3.4	20.0529	0.355	1.8	ug/L	5	KED
[>	Ge-1	72	6935.7	2.5				ug/L	7220	KED
|	As-2	75	688.0	5.9	20.0041	1.420	7.1	ug/L	0	KED
|	Y-1	89	12344.0	0.8				ug/L	12743	KED
|	Rh-1	103	81557.1	0.7				ug/L	84468	KED
|	Cd-1	111	3121.3	2.3	19.9862	0.575	2.9	ug/L	1	KED
|	Cd-1	114	8026.5	1.0	19.9584	0.340	1.7	ug/L	3	KED
[>	In-1	115	8050.1	0.7				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Tuesday, February 08, 2022 10:11:56

Report Date/Time: Tuesday, February 08, 2022 12:34:56

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 6.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	493863.3	1.4				ug/L	502408	Standard
|	Cr	52	470663.5	1.2	39.9537	1.083	2.7	ug/L	5150	Standard
|	Cr	53	53276.9	2.3	40.0561	1.495	3.7	ug/L	183	Standard
>	Ge	72	284049.9	2.0				ug/L	290606	Standard
|	As	75	53124.0	2.6	40.0733	0.319	0.8	ug/L	3627	Standard
|	As-1	75	51766.0	2.1	40.1573	0.250	0.6	ug/L	77	Standard
|	Se	77	4112.6	2.3	39.9609	1.233	3.1	ug/L	61	Standard
|	Se	78	18408.2	2.1	39.9459	0.512	1.3	ug/L	4310	Standard
|	Br	79	229.3	11.2				ug/L	239	Standard
|	Se	82	6633.2	1.2	40.2614	0.959	2.4	ug/L	84	Standard
|	Kr	83	92.0	7.6				ug/L	76	Standard
|	Y	89	696405.6	1.7				ug/L	713390	Standard
|	Rh	103	534193.5	0.4				ug/L	551749	Standard
|	Cd	111	91180.3	0.4	40.0903	0.200	0.5	ug/L	386	Standard
|	Cd	114	218651.4	0.7	40.1681	0.558	1.4	ug/L	17	Standard
>	In	115	356879.3	0.9				ug/L	363277	Standard
>	Tb	159	421864.3	1.6				ug/L	419625	Standard
|	Ho	165	409792.8	0.3				ug/L	415867	Standard
|	Pb	208	1238749.8	0.2	39.9355	0.707	1.8	ug/L	693	Standard
|	Bi	209	277923.8	0.6				ug/L	277440	Standard
|	Th	232	416535.9	0.8				ug/L	412751	Standard
|	Cr-1	52	28848.4	0.7	39.8739	0.357	0.9	ug/L	38	KED
|	Cr-1	53	3442.7	2.5	39.4651	0.443	1.1	ug/L	5	KED
>	Ge-1	72	7140.8	1.4				ug/L	7220	KED
|	As-2	75	1435.4	0.6	40.1089	0.620	1.5	ug/L	0	KED
|	Y-1	89	12283.9	0.3				ug/L	12743	KED
|	Rh-1	103	81661.1	0.7				ug/L	84468	KED
|	Cd-1	111	6273.4	1.9	39.9231	1.759	4.4	ug/L	1	KED
|	Cd-1	114	15963.8	0.2	39.8200	0.991	2.5	ug/L	3	KED
>	In-1	115	8163.5	2.5				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 6

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Tuesday, February 08, 2022 10:15:35

Report Date/Time: Tuesday, February 08, 2022 12:34:58

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\Standard 7.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	470813.9	0.1				ug/L	502408	Standard
|	Cr	52	1128921.3	3.2	100.1937	3.339	3.3	ug/L	5150	Standard
|	Cr	53	127240.0	2.3	100.0873	2.395	2.4	ug/L	183	Standard
[>	Ge	72	271171.7	3.0				ug/L	290606	Standard
|	As	75	123062.0	3.5	100.2215	1.207	1.2	ug/L	3627	Standard
|	As-1	75	124958.9	2.7	100.2726	0.754	0.8	ug/L	77	Standard
|	Se	77	9953.8	2.5	100.3650	0.843	0.8	ug/L	61	Standard
|	Se	78	38357.1	3.0	100.2029	1.827	1.8	ug/L	4310	Standard
|	Br	79	252.7	0.8				ug/L	239	Standard
|	Se	82	15969.6	0.2	100.3866	2.937	2.9	ug/L	84	Standard
|	Kr	83	99.7	8.1				ug/L	76	Standard
|	Y	89	666314.1	1.1				ug/L	713390	Standard
|	Rh	103	508012.7	1.2				ug/L	551749	Standard
|	Cd	111	217629.0	1.0	100.1778	0.992	1.0	ug/L	386	Standard
|	Cd	114	524175.6	0.6	100.2417	0.568	0.6	ug/L	17	Standard
[>	In	115	338745.5	0.9				ug/L	363277	Standard
[>	Tb	159	399223.6	1.8				ug/L	419625	Standard
|	Ho	165	396295.9	1.4				ug/L	415867	Standard
|	Pb	208	2998319.3	0.7	100.3606	1.503	1.5	ug/L	693	Standard
|	Bi	209	265594.3	0.9				ug/L	277440	Standard
|	Th	232	400607.2	0.7				ug/L	412751	Standard
|	Cr-1	52	69445.4	0.9	100.4071	1.791	1.8	ug/L	38	KED
|	Cr-1	53	8326.1	1.1	100.3153	1.328	1.3	ug/L	5	KED
[>	Ge-1	72	6694.9	0.8				ug/L	7220	KED
|	As-2	75	3456.4	1.1	100.4974	1.726	1.7	ug/L	0	KED
|	Y-1	89	11723.5	1.7				ug/L	12743	KED
|	Rh-1	103	77548.9	0.9				ug/L	84468	KED
|	Cd-1	111	15125.0	1.1	100.2925	1.247	1.2	ug/L	1	KED
|	Cd-1	114	39232.6	0.4	100.5728	0.223	0.2	ug/L	3	KED
[>	In-1	115	7716.8	0.5				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 7

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, February 08, 2022 10:20:05

Report Date/Time: Tuesday, February 08, 2022 12:35:00

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 1.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	510704.7	2.0				ug/L	502408	Standard
|	Cr	52	623204.4	2.8	50.7903	1.707	3.4	ug/L	5150	Standard
|	Cr	53	70954.2	2.1	51.3988	1.438	2.8	ug/L	183	Standard
>	Ge	72	297064.3	0.8				ug/L	290606	Standard
|	As	75	68140.6	1.9	49.2634	1.316	2.7	ug/L	3627	Standard
|	As-1	75	67213.5	2.5	49.2077	1.561	3.2	ug/L	77	Standard
|	Se	77	5347.0	2.9	48.9086	1.050	2.1	ug/L	61	Standard
|	Se	78	22160.8	1.8	47.2935	0.805	1.7	ug/L	4310	Standard
|	Br	79	226.7	5.1				ug/L	239	Standard
|	Se	82	8307.1	1.8	47.3844	1.183	2.5	ug/L	84	Standard
|	Kr	83	90.3	7.9				ug/L	76	Standard
|	Y	89	727013.0	0.4				ug/L	713390	Standard
|	Rh	103	546740.6	1.0				ug/L	551749	Standard
|	Cd	111	116459.9	1.0	49.8293	0.401	0.8	ug/L	386	Standard
|	Cd	114	279190.1	0.4	49.7108	0.445	0.9	ug/L	17	Standard
>	In	115	363820.4	0.7				ug/L	363277	Standard
>	Tb	159	429813.5	1.4				ug/L	419625	Standard
|	Ho	165	425504.6	0.1				ug/L	415867	Standard
|	Pb	208	1618743.9	0.7	50.3120	0.571	1.1	ug/L	693	Standard
|	Bi	209	283243.5	0.8				ug/L	277440	Standard
|	Th	232	436255.4	0.3				ug/L	412751	Standard
|	Cr-1	52	38190.0	0.2	51.8720	1.336	2.6	ug/L	38	KED
|	Cr-1	53	4584.7	1.6	51.8856	1.051	2.0	ug/L	5	KED
>	Ge-1	72	7125.4	2.4				ug/L	7220	KED
|	As-2	75	1796.1	1.3	49.0674	0.550	1.1	ug/L	0	KED
|	Y-1	89	12675.6	0.4				ug/L	12743	KED
|	Rh-1	103	83658.9	0.8				ug/L	84468	KED
|	Cd-1	111	8109.6	1.5	50.1695	1.119	2.2	ug/L	1	KED
|	Cd-1	114	21083.8	0.6	50.4297	1.240	2.5	ug/L	3	KED
>	In-1	115	8273.1	2.3				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		101.651
|	Cr	52	101.581	
|	Cr	53	102.798	
>	Ge	72		102.222
|	As	75	98.527	
|	As-1	75	98.415	
	Se	77	97.817	
	Se	78	94.587	
	Br	79		
	Se	82	94.769	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.659	

Sample ID: QC Std 1

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Cd	114	99.422	
In	115		100.150
Tb	159		102.428
Ho	165		
Pb	208	100.624	
Bi	209		
Th	232		
Cr-1	52	103.744	
Cr-1	53	103.771	
Ge-1	72		98.688
As-2	75	98.135	
Y-1	89		
Rh-1	103		
Cd-1	111	100.339	
Cd-1	114	100.859	
In-1	115		98.922

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, February 08, 2022 10:32:22

Report Date/Time: Tuesday, February 08, 2022 12:35:02

Method File: C:\NexlONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220208B\QC Std 2.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	492093.1	1.0				ug/L	502408	Standard
|	Cr	52	4919.2	4.8	-0.0108	0.016	147.3	ug/L	5150	Standard
|	Cr	53	165.3	6.2	-0.0108	0.007	60.5	ug/L	183	Standard
[>	Ge	72	281677.1	2.3				ug/L	290606	Standard
|	As	75	3522.9	1.4	0.0064	0.032	503.1	ug/L	3627	Standard
|	As-1	75	88.2	37.1	0.0105	0.027	253.8	ug/L	77	Standard
|	Se	77	52.3	6.1	-0.0692	0.036	51.5	ug/L	61	Standard
|	Se	78	4177.9	1.3	0.0038	0.121	3226.8	ug/L	4310	Standard
|	Br	79	209.3	7.2				ug/L	239	Standard
|	Se	82	84.7	13.7	0.0188	0.081	429.7	ug/L	84	Standard
|	Kr	83	89.0	5.6				ug/L	76	Standard
|	Y	89	696353.7	1.0				ug/L	713390	Standard
|	Rh	103	529948.7	0.5				ug/L	551749	Standard
|	Cd	111	393.6	3.1	0.0066	0.005	74.0	ug/L	386	Standard
|	Cd	114	15.6	34.8	-0.0002	0.001	620.5	ug/L	17	Standard
[>	In	115	356334.2	0.4				ug/L	363277	Standard
[>	Tb	159	416628.3	1.3				ug/L	419625	Standard
|	Ho	165	411022.9	0.7				ug/L	415867	Standard
|	Pb	208	643.0	2.9	-0.0015	0.000	29.9	ug/L	693	Standard
|	Bi	209	272700.2	0.5				ug/L	277440	Standard
|	Th	232	414751.4	0.7				ug/L	412751	Standard
|	Cr-1	52	33.7	7.5	-0.0044	0.004	80.0	ug/L	38	KED
|	Cr-1	53	5.7	83.4	0.0125	0.054	430.7	ug/L	5	KED
[>	Ge-1	72	7067.1	0.2				ug/L	7220	KED
|	As-2	75	3.7	56.8	0.0920	0.057	62.2	ug/L	0	KED
|	Y-1	89	12471.4	1.8				ug/L	12743	KED
|	Rh-1	103	82600.8	0.7				ug/L	84468	KED
|	Cd-1	111	0.3	173.2	-0.0020	0.004	173.2	ug/L	1	KED
|	Cd-1	114	1.0	71.2	-0.0044	0.002	36.5	ug/L	3	KED
[>	In-1	115	8268.6	1.3				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		97.947
|	Cr	52		
|	Cr	53		
[>	Ge	72		96.927
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 2

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Cd	114	
In	115	98.089
Tb	159	99.286
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.880
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.868

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 08, 2022 10:36:51

Report Date/Time: Tuesday, February 08, 2022 12:35:04

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 6.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	491807.7	0.8				ug/L	502408	Standard
|	Cr	52	467935.7	2.3	39.4959	0.786	2.0	ug/L	5150	Standard
|	Cr	53	52696.7	2.4	39.6003	0.936	2.4	ug/L	183	Standard
>	Ge	72	284855.2	2.6				ug/L	290606	Standard
|	As	75	52822.4	2.5	39.2793	0.070	0.2	ug/L	3627	Standard
|	As-1	75	51532.4	2.7	39.3264	0.127	0.3	ug/L	77	Standard
|	Se	77	4067.2	2.0	38.6891	0.676	1.7	ug/L	61	Standard
|	Se	78	18145.2	1.4	38.6831	0.873	2.3	ug/L	4310	Standard
|	Br	79	220.0	2.5				ug/L	239	Standard
|	Se	82	6560.5	1.9	38.9389	0.316	0.8	ug/L	84	Standard
|	Kr	83	93.0	7.1				ug/L	76	Standard
|	Y	89	694975.9	0.1				ug/L	713390	Standard
|	Rh	103	530571.9	0.9				ug/L	551749	Standard
|	Cd	111	90308.7	0.6	39.8361	0.199	0.5	ug/L	386	Standard
|	Cd	114	217132.6	0.2	39.8894	0.097	0.2	ug/L	17	Standard
>	In	115	352600.4	0.1				ug/L	363277	Standard
>	Tb	159	414382.8	0.6				ug/L	419625	Standard
|	Ho	165	410922.3	0.5				ug/L	415867	Standard
|	Pb	208	1233448.3	0.1	39.7569	0.250	0.6	ug/L	693	Standard
|	Bi	209	277130.6	0.2				ug/L	277440	Standard
|	Th	232	418468.3	0.5				ug/L	412751	Standard
|	Cr-1	52	28323.0	0.4	39.6571	0.815	2.1	ug/L	38	KED
|	Cr-1	53	3440.7	1.2	40.1502	1.100	2.7	ug/L	5	KED
>	Ge-1	72	6909.0	1.9				ug/L	7220	KED
|	As-2	75	1343.7	1.7	37.8561	0.762	2.0	ug/L	0	KED
|	Y-1	89	12362.0	1.4				ug/L	12743	KED
|	Rh-1	103	81707.7	1.1				ug/L	84468	KED
|	Cd-1	111	6316.7	0.8	39.6627	0.579	1.5	ug/L	1	KED
|	Cd-1	114	16304.9	0.8	39.5824	0.910	2.3	ug/L	3	KED
>	In-1	115	8150.5	2.3				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		97.890
|	Cr	52	98.740	
|	Cr	53	99.001	
>	Ge	72		98.021
|	As	75	98.198	
	As-1	75	98.316	
	Se	77	96.723	
	Se	78	96.708	
	Br	79		
	Se	82	97.347	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.590	

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Cd	114	99.723	
In	115		97.061
Tb	159		98.751
Ho	165		
Pb	208	99.392	
Bi	209		
Th	232		
Cr-1	52	99.143	
Cr-1	53	100.375	
Ge-1	72		95.690
As-2	75	94.640	
Y-1	89		
Rh-1	103		
Cd-1	111	99.157	
Cd-1	114	98.956	
In-1	115		97.456

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 08, 2022 10:41:21

Report Date/Time: Tuesday, February 08, 2022 12:35:06

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 7.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	486410.0	1.2				ug/L	502408	Standard
|	Cr	52	232905.9	2.9	19.6612	0.401	2.0	ug/L	5150	Standard
|	Cr	53	26283.2	2.6	19.9014	0.343	1.7	ug/L	183	Standard
[>	Ge	72	283066.3	2.8				ug/L	290606	Standard
|	As	75	27838.1	2.1	19.5026	0.160	0.8	ug/L	3627	Standard
|	As-1	75	25446.8	1.7	19.5173	0.217	1.1	ug/L	77	Standard
|	Se	77	2035.8	3.2	19.1955	0.317	1.7	ug/L	61	Standard
|	Se	78	11183.4	2.0	19.5331	0.429	2.2	ug/L	4310	Standard
|	Br	79	213.7	2.3				ug/L	239	Standard
|	Se	82	3318.1	1.2	19.5808	0.556	2.8	ug/L	84	Standard
|	Kr	83	76.3	4.0				ug/L	76	Standard
|	Y	89	687020.0	0.6				ug/L	713390	Standard
|	Rh	103	523981.5	0.4				ug/L	551749	Standard
|	Cd	111	45028.8	0.9	19.9221	0.188	0.9	ug/L	386	Standard
|	Cd	114	106764.0	0.4	19.7522	0.035	0.2	ug/L	17	Standard
[>	In	115	350099.1	0.2				ug/L	363277	Standard
[>	Tb	159	410595.1	0.4				ug/L	419625	Standard
|	Ho	165	408602.0	0.9				ug/L	415867	Standard
|	Pb	208	609814.6	0.7	19.8254	0.061	0.3	ug/L	693	Standard
|	Bi	209	272834.4	0.3				ug/L	277440	Standard
|	Th	232	412714.9	0.6				ug/L	412751	Standard
|	Cr-1	52	14080.3	2.4	19.2396	0.398	2.1	ug/L	38	KED
|	Cr-1	53	1677.1	1.9	19.0949	0.175	0.9	ug/L	5	KED
[>	Ge-1	72	7068.4	1.4				ug/L	7220	KED
|	As-2	75	712.4	4.2	19.6120	0.891	4.5	ug/L	0	KED
|	Y-1	89	12262.6	2.1				ug/L	12743	KED
|	Rh-1	103	80691.9	0.7				ug/L	84468	KED
|	Cd-1	111	3078.3	3.0	19.2996	0.455	2.4	ug/L	1	KED
|	Cd-1	114	8136.8	0.4	19.7233	0.246	1.2	ug/L	3	KED
[>	In-1	115	8159.4	1.0				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.816
|	Cr	52	98.306	
|	Cr	53	99.507	
[>	Ge	72		97.406
|	As	75	97.513	
|	As-1	75	97.586	
	Se	77	95.977	
	Se	78	97.666	
	Br	79		
	Se	82	97.904	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.611	

Sample ID: QC Std 7

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—	Cd	114	98.761	
↳	In	115		96.372
↳	Tb	159		97.848
—	Ho	165		
—	Pb	208	99.127	
—	Bi	209		
—	Th	232		
—	Cr-1	52	96.198	
—	Cr-1	53	95.475	
↳	Ge-1	72		97.898
—	As-2	75	98.060	
—	Y-1	89		
—	Rh-1	103		
—	Cd-1	111	96.498	
—	Cd-1	114	98.617	
↳	In-1	115		97.563

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, February 08, 2022 10:45:50

Report Date/Time: Tuesday, February 08, 2022 12:35:09

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 8.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	492502.5	1.2				ug/L	502408	Standard
|	Cr	52	4843.2	3.9	-0.0176	0.011	63.1	ug/L	5150	Standard
|	Cr	53	157.7	9.2	-0.0166	0.010	60.5	ug/L	183	Standard
[>	Ge	72	285258.8	3.0				ug/L	290606	Standard
|	As	75	3597.3	3.2	0.0294	0.007	23.7	ug/L	3627	Standard
|	As-1	75	102.7	19.4	0.0207	0.017	80.1	ug/L	77	Standard
|	Se	77	65.7	11.0	0.0540	0.085	157.2	ug/L	61	Standard
|	Se	78	4242.0	3.3	0.0314	0.043	138.5	ug/L	4310	Standard
|	Br	79	201.3	2.9				ug/L	239	Standard
|	Se	82	82.7	9.8	-0.0001	0.055	41496.4	ug/L	84	Standard
|	Kr	83	64.0	4.1				ug/L	76	Standard
|	Y	89	700244.9	0.8				ug/L	713390	Standard
|	Rh	103	528933.0	0.2				ug/L	551749	Standard
|	Cd	111	393.7	0.4	0.0057	0.003	44.1	ug/L	386	Standard
|	Cd	114	23.7	15.8	0.0013	0.001	53.3	ug/L	17	Standard
[>	In	115	358412.7	1.3				ug/L	363277	Standard
[>	Tb	159	422111.9	0.5				ug/L	419625	Standard
|	Ho	165	413611.9	0.3				ug/L	415867	Standard
|	Pb	208	687.3	2.2	-0.0003	0.000	127.0	ug/L	693	Standard
|	Bi	209	277768.4	1.3				ug/L	277440	Standard
|	Th	232	422499.7	0.1				ug/L	412751	Standard
|	Cr-1	52	34.7	10.9	-0.0034	0.006	163.6	ug/L	38	KED
|	Cr-1	53	6.0	83.3	0.0160	0.057	358.5	ug/L	5	KED
[>	Ge-1	72	7135.1	1.0				ug/L	7220	KED
|	As-2	75	1.3	43.3	0.0273	0.015	56.4	ug/L	0	KED
|	Y-1	89	12653.3	1.1				ug/L	12743	KED
|	Rh-1	103	82787.9	0.6				ug/L	84468	KED
|	Cd-1	111	1.7	124.9	0.0060	0.013	208.9	ug/L	1	KED
|	Cd-1	114	0.0	1688.4	-0.0066	0.001	22.4	ug/L	3	KED
[>	In-1	115	8375.2	1.4				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		98.028
|	Cr	52		
|	Cr	53		
[>	Ge	72		98.160
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Tuesday, February 08, 2022 12:35:09

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—	Cd	114	
↳	In	115	98.661
↳	Tb	159	100.593
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	98.822
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	100.143

Quantitative Analysis - Summary Report

Sample ID: MB0208D1 2X

Sample Date/Time: Tuesday, February 08, 2022 10:55:15

Report Date/Time: Tuesday, February 08, 2022 12:35:11

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\MB0208D1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	508819.7	0.5				ug/L	502408	Standard
|	Cr	52	5528.4	3.5	0.0257	0.014	55.8	ug/L	5150	Standard
|	Cr	53	196.0	17.3	0.0075	0.024	325.4	ug/L	183	Standard
>	Ge	72	293201.0	1.9				ug/L	290606	Standard
|	As	75	3565.7	3.0	-0.0729	0.033	45.5	ug/L	3627	Standard
|	As-1	75	80.3	76.5	0.0018	0.046	2601.3	ug/L	77	Standard
|	Se	77	53.0	8.2	-0.0828	0.048	58.2	ug/L	61	Standard
|	Se	78	4248.3	2.5	-0.2703	0.073	26.9	ug/L	4310	Standard
|	Br	79	248.3	4.9				ug/L	239	Standard
|	Se	82	89.3	19.3	0.0256	0.106	414.0	ug/L	84	Standard
|	Kr	83	89.7	9.7				ug/L	76	Standard
|	Y	89	718716.5	1.7				ug/L	713390	Standard
|	Rh	103	545774.5	0.9				ug/L	551749	Standard
|	Cd	111	382.2	3.1	-0.0030	0.005	162.6	ug/L	386	Standard
|	Cd	114	20.4	29.1	0.0006	0.001	169.8	ug/L	17	Standard
>	In	115	366593.9	0.3				ug/L	363277	Standard
>	Tb	159	424476.2	1.2				ug/L	419625	Standard
|	Ho	165	419864.4	0.6				ug/L	415867	Standard
|	Pb	208	655.3	1.4	-0.0014	0.001	35.8	ug/L	693	Standard
|	Bi	209	281933.6	0.6				ug/L	277440	Standard
|	Th	232	426617.9	0.7				ug/L	412751	Standard
|	Cr-1	52	36.7	8.8	-0.0027	0.004	152.9	ug/L	38	KED
|	Cr-1	53	4.7	53.9	-0.0013	0.028	2171.9	ug/L	5	KED
>	Ge-1	72	7431.3	1.4				ug/L	7220	KED
|	As-2	75	2.0	50.0	0.0436	0.027	61.0	ug/L	0	KED
|	Y-1	89	12932.2	0.4				ug/L	12743	KED
|	Rh-1	103	84384.5	0.7				ug/L	84468	KED
|	Cd-1	111	2.7	21.7	0.0116	0.003	28.1	ug/L	1	KED
|	Cd-1	114	0.9	122.6	-0.0046	0.003	54.8	ug/L	3	KED
>	In-1	115	8669.4	1.6				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		101.276
|	Cr	52		
|	Cr	53		
>	Ge	72		100.893
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0208D1 2X

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—	Cd	114	
↳	In	115	100.913
↳	Tb	159	101.156
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	102.924
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	103.661

Quantitative Analysis - Summary Report

Sample ID: SB0208D1 2X

Sample Date/Time: Tuesday, February 08, 2022 10:59:45

Report Date/Time: Tuesday, February 08, 2022 12:35:13

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\SB0208D1 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	496513.8	0.4				ug/L	502408	Standard
|	Cr	52	473821.1	1.6	39.6144	0.476	1.2	ug/L	5150	Standard
|	Cr	53	53354.5	2.4	39.7124	0.835	2.1	ug/L	183	Standard
>	Ge	72	287290.8	3.4				ug/L	290606	Standard
|	As	75	53777.1	2.2	39.6883	0.634	1.6	ug/L	3627	Standard
|	As-1	75	52479.4	1.8	39.7260	0.756	1.9	ug/L	77	Standard
|	Se	77	4301.6	0.0	40.6227	1.368	3.4	ug/L	61	Standard
|	Se	78	18386.8	2.1	38.9249	0.875	2.2	ug/L	4310	Standard
|	Br	79	235.0	8.5				ug/L	239	Standard
|	Se	82	6652.2	1.3	39.1721	1.279	3.3	ug/L	84	Standard
|	Kr	83	86.0	10.1				ug/L	76	Standard
|	Y	89	700359.4	0.7				ug/L	713390	Standard
|	Rh	103	536292.4	0.5				ug/L	551749	Standard
|	Cd	111	91530.3	0.2	39.3280	0.484	1.2	ug/L	386	Standard
|	Cd	114	219849.4	0.4	39.3427	0.444	1.1	ug/L	17	Standard
>	In	115	362001.4	1.1				ug/L	363277	Standard
>	Tb	159	424365.6	0.7				ug/L	419625	Standard
|	Ho	165	413583.1	0.4				ug/L	415867	Standard
|	Pb	208	1247100.1	0.4	39.2513	0.292	0.7	ug/L	693	Standard
|	Bi	209	277300.2	0.5				ug/L	277440	Standard
|	Th	232	426459.1	0.1				ug/L	412751	Standard
|	Cr-1	52	28936.9	0.4	38.7088	0.810	2.1	ug/L	38	KED
|	Cr-1	53	3552.1	1.0	39.5944	0.611	1.5	ug/L	5	KED
>	Ge-1	72	7231.5	1.9				ug/L	7220	KED
|	As-2	75	1472.4	3.9	39.6540	2.285	5.8	ug/L	0	KED
|	Y-1	89	12812.1	1.2				ug/L	12743	KED
|	Rh-1	103	82877.7	0.6				ug/L	84468	KED
|	Cd-1	111	6529.2	1.1	39.0903	0.379	1.0	ug/L	1	KED
|	Cd-1	114	16828.7	0.7	38.9505	0.214	0.5	ug/L	3	KED
>	In-1	115	8546.0	0.2				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.827
|	Cr	52		
|	Cr	53		
>	Ge	72		98.859
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0208D1 2X

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Cd	114	
In	115	99.649
Tb	159	101.130
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.157
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	102.185

Quantitative Analysis - Summary Report

Sample ID: 02-068-01d 2X

Sample Date/Time: Tuesday, February 08, 2022 11:04:13

Report Date/Time: Tuesday, February 08, 2022 12:35:15

Method File: C:\NexlONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220208B\02-068-01d 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	507914.3	0.9				ug/L	502408	Standard
|	Cr	52	20337.1	1.3	1.2501	0.013	1.1	ug/L	5150	Standard
|	Cr	53	1709.4	3.9	1.1126	0.038	3.4	ug/L	183	Standard
[>	Ge	72	275011.1	2.3				ug/L	290606	Standard
|	As	75	6640.4	1.9	2.6494	0.021	0.8	ug/L	3627	Standard
|	As-1	75	3103.5	2.6	2.3989	0.035	1.4	ug/L	77	Standard
|	Se	77	97.7	9.7	0.3957	0.084	21.3	ug/L	61	Standard
|	Se	78	4381.3	2.6	0.8721	0.214	24.5	ug/L	4310	Standard
|	Br	79	4251.0	1.1				ug/L	239	Standard
|	Se	82	118.3	7.2	0.2393	0.038	15.8	ug/L	84	Standard
|	Kr	83	93.0	10.3				ug/L	76	Standard
|	Y	89	678142.4	0.4				ug/L	713390	Standard
|	Rh	103	493604.9	0.9				ug/L	551749	Standard
|	Cd	111	391.5	3.8	0.0138	0.006	44.4	ug/L	386	Standard
|	Cd	114	122.0	30.4	0.0203	0.007	35.7	ug/L	17	Standard
[>	In	115	340303.3	0.7				ug/L	363277	Standard
[>	Tb	159	408613.5	0.5				ug/L	419625	Standard
|	Ho	165	400389.7	0.9				ug/L	415867	Standard
|	Pb	208	5751.1	2.4	0.1660	0.005	2.9	ug/L	693	Standard
|	Bi	209	257314.6	1.3				ug/L	277440	Standard
|	Th	232	412635.4	0.7				ug/L	412751	Standard
|	Cr-1	52	721.0	7.5	0.9689	0.067	6.9	ug/L	38	KED
|	Cr-1	53	96.7	19.8	1.0843	0.202	18.7	ug/L	5	KED
[>	Ge-1	72	6848.0	2.4				ug/L	7220	KED
|	As-2	75	83.3	10.3	2.3572	0.197	8.4	ug/L	0	KED
|	Y-1	89	12406.7	1.5				ug/L	12743	KED
|	Rh-1	103	76600.2	1.0				ug/L	84468	KED
|	Cd-1	111	3.7	56.8	0.0193	0.014	70.7	ug/L	1	KED
|	Cd-1	114	8.3	60.8	0.0137	0.012	90.4	ug/L	3	KED
[>	In-1	115	8067.1	1.6				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		101.096
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.634
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-01d 2X

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Cd	114	
In	115	93.676
Tb	159	97.376
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.845
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	96.460

Quantitative Analysis - Summary Report

Sample ID: 02-068-02d 2X

Sample Date/Time: Tuesday, February 08, 2022 11:08:42

Report Date/Time: Tuesday, February 08, 2022 12:35:17

Method File: C:\NexlONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220208B\02-068-02d 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	538641.4	1.6				ug/L	502408	Standard
|	Cr	52	25347.8	0.5	1.5448	0.024	1.6	ug/L	5150	Standard
|	Cr	53	1694.8	3.1	1.0316	0.039	3.7	ug/L	183	Standard
[>	Ge	72	278589.9	2.8				ug/L	290606	Standard
|	As	75	4963.7	2.6	1.2121	0.027	2.2	ug/L	3627	Standard
|	As-1	75	1418.5	4.0	1.0503	0.015	1.5	ug/L	77	Standard
|	Se	77	95.0	13.8	0.3565	0.119	33.3	ug/L	61	Standard
|	Se	78	4401.0	2.3	0.7673	0.154	20.1	ug/L	4310	Standard
|	Br	79	17094.6	1.8				ug/L	239	Standard
|	Se	82	122.3	2.9	0.2550	0.013	5.1	ug/L	84	Standard
|	Kr	83	89.0	13.7				ug/L	76	Standard
|	Y	89	693040.2	0.8				ug/L	713390	Standard
|	Rh	103	497131.1	0.9				ug/L	551749	Standard
|	Cd	111	365.3	0.8	0.0022	0.002	91.3	ug/L	386	Standard
|	Cd	114	63.6	4.3	0.0092	0.001	6.4	ug/L	17	Standard
[>	In	115	339453.0	0.5				ug/L	363277	Standard
[>	Tb	159	416330.8	0.2				ug/L	419625	Standard
|	Ho	165	410559.1	1.0				ug/L	415867	Standard
|	Pb	208	1297.0	3.2	0.0196	0.001	7.1	ug/L	693	Standard
|	Bi	209	254005.9	0.1				ug/L	277440	Standard
|	Th	232	420149.0	0.6				ug/L	412751	Standard
|	Cr-1	52	625.0	1.5	0.8503	0.018	2.1	ug/L	38	KED
|	Cr-1	53	68.0	12.7	0.7635	0.091	11.9	ug/L	5	KED
[>	Ge-1	72	6719.6	1.8				ug/L	7220	KED
|	As-2	75	36.0	10.0	1.0331	0.089	8.6	ug/L	0	KED
|	Y-1	89	12516.5	1.5				ug/L	12743	KED
|	Rh-1	103	75516.1	0.3				ug/L	84468	KED
|	Cd-1	111	1.3	43.3	0.0045	0.004	86.0	ug/L	1	KED
|	Cd-1	114	3.5	52.9	0.0020	0.005	225.1	ug/L	3	KED
[>	In-1	115	8017.7	1.6				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.212
|	Cr	52		
|	Cr	53		
[>	Ge	72		95.865
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-02d 2X

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Cd	114	
In	115	93.442
Tb	159	99.215
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.067
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	95.869

Quantitative Analysis - Summary Report

Sample ID: 02-068-03d 2X

Sample Date/Time: Tuesday, February 08, 2022 11:13:09

Report Date/Time: Tuesday, February 08, 2022 12:35:19

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-03d 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	564072.8	1.6				ug/L	502408	Standard
|	Cr	52	33425.1	1.4	2.0571	0.063	3.1	ug/L	5150	Standard
|	Cr	53	2905.6	0.1	1.7752	0.030	1.7	ug/L	183	Standard
[>	Ge	72	285641.8	3.0				ug/L	290606	Standard
|	As	75	5015.2	1.0	1.1548	0.092	8.0	ug/L	3627	Standard
|	As-1	75	1581.4	1.6	1.1483	0.050	4.4	ug/L	77	Standard
|	Se	77	115.0	4.6	0.5271	0.051	9.6	ug/L	61	Standard
|	Se	78	4361.3	1.7	0.3515	0.258	73.5	ug/L	4310	Standard
|	Br	79	28550.5	1.3				ug/L	239	Standard
|	Se	82	157.3	2.0	0.4471	0.047	10.5	ug/L	84	Standard
|	Kr	83	82.0	19.6				ug/L	76	Standard
|	Y	89	707049.3	1.6				ug/L	713390	Standard
[	Rh	103	501782.8	2.5				ug/L	551749	Standard
|	Cd	111	375.7	1.9	0.0029	0.004	152.2	ug/L	386	Standard
|	Cd	114	58.0	2.4	0.0078	0.000	1.8	ug/L	17	Standard
[>	In	115	347678.5	1.1				ug/L	363277	Standard
[>	Tb	159	423213.2	1.1				ug/L	419625	Standard
|	Ho	165	416265.2	0.8				ug/L	415867	Standard
|	Pb	208	1408.0	3.4	0.0224	0.002	8.3	ug/L	693	Standard
|	Bi	209	256418.5	1.7				ug/L	277440	Standard
|	Th	232	423920.0	1.5				ug/L	412751	Standard
[	Cr-1	52	886.4	1.0	1.1443	0.024	2.1	ug/L	38	KED
|	Cr-1	53	103.7	11.3	1.1131	0.141	12.6	ug/L	5	KED
[>	Ge-1	72	7184.8	1.0				ug/L	7220	KED
|	As-2	75	39.0	22.4	1.0462	0.225	21.5	ug/L	0	KED
|	Y-1	89	13040.6	0.6				ug/L	12743	KED
|	Rh-1	103	80344.3	1.1				ug/L	84468	KED
[	Cd-1	111	3.0	66.7	0.0141	0.012	87.8	ug/L	1	KED
|	Cd-1	114	3.1	37.2	0.0005	0.003	544.1	ug/L	3	KED
[>	In-1	115	8546.1	2.3				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		112.274
|	Cr	52		
|	Cr	53		
[>	Ge	72		98.292
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: 02-068-03d 2X

Report Date/Time: Tuesday, February 08, 2022 12:35:19

—	Cd	114	
↳	In	115	95.706
↳	Tb	159	100.855
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	99.510
↳	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	102.187

Quantitative Analysis - Summary Report

Sample ID: 02-068-04d 2X

Sample Date/Time: Tuesday, February 08, 2022 11:17:37

Report Date/Time: Tuesday, February 08, 2022 12:35:22

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-04d 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	553674.6	2.3				ug/L	502408	Standard
|	Cr	52	36599.2	2.1	2.3442	0.055	2.3	ug/L	5150	Standard
|	Cr	53	3150.7	1.6	1.9752	0.020	1.0	ug/L	183	Standard
>	Ge	72	280194.1	2.7				ug/L	290606	Standard
|	As	75	5077.5	2.4	1.2819	0.089	6.9	ug/L	3627	Standard
|	As-1	75	1555.7	3.6	1.1509	0.033	2.9	ug/L	77	Standard
|	Se	77	118.7	4.9	0.5852	0.076	12.9	ug/L	61	Standard
|	Se	78	4414.7	1.9	0.7355	0.221	30.0	ug/L	4310	Standard
|	Br	79	28581.6	1.4				ug/L	239	Standard
|	Se	82	138.3	4.6	0.3481	0.018	5.0	ug/L	84	Standard
|	Kr	83	93.7	14.6				ug/L	76	Standard
|	Y	89	704450.8	0.8				ug/L	713390	Standard
|	Rh	103	495312.5	0.4				ug/L	551749	Standard
|	Cd	111	342.3	5.8	-0.0096	0.008	86.0	ug/L	386	Standard
|	Cd	114	60.8	11.4	0.0085	0.001	14.4	ug/L	17	Standard
>	In	115	342174.6	0.7				ug/L	363277	Standard
>	Tb	159	418142.4	0.6				ug/L	419625	Standard
|	Ho	165	412201.9	1.3				ug/L	415867	Standard
|	Pb	208	1191.4	1.2	0.0160	0.000	2.7	ug/L	693	Standard
|	Bi	209	251719.3	0.3				ug/L	277440	Standard
|	Th	232	418595.5	0.8				ug/L	412751	Standard
|	Cr-1	52	1004.0	2.6	1.3607	0.023	1.7	ug/L	38	KED
|	Cr-1	53	125.0	12.5	1.4112	0.169	12.0	ug/L	5	KED
>	Ge-1	72	6889.0	0.9				ug/L	7220	KED
|	As-2	75	44.3	7.3	1.2438	0.091	7.3	ug/L	0	KED
|	Y-1	89	12807.7	1.6				ug/L	12743	KED
|	Rh-1	103	76683.6	1.3				ug/L	84468	KED
|	Cd-1	111	4.3	13.3	0.0231	0.004	17.5	ug/L	1	KED
|	Cd-1	114	1.8	63.7	-0.0024	0.003	115.7	ug/L	3	KED
>	In-1	115	8182.4	1.5				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		110.204
	Cr	52		
	Cr	53		
>	Ge	72		96.417
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	94.191
Tb	159	99.647
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	95.413
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.838

Quantitative Analysis - Summary Report

Sample ID: 02-068-05d 2X

Sample Date/Time: Tuesday, February 08, 2022 11:22:04

Report Date/Time: Tuesday, February 08, 2022 12:35:23

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-05d 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	531958.9	0.6				ug/L	502408	Standard
|	Cr	52	20526.4	1.6	1.1891	0.023	1.9	ug/L	5150	Standard
|	Cr	53	3567.4	3.6	2.3513	0.074	3.2	ug/L	183	Standard
[>	Ge	72	263946.4	2.9				ug/L	290606	Standard
|	As	75	4717.6	3.4	1.2243	0.022	1.8	ug/L	3627	Standard
|	As-1	75	1437.2	3.0	1.1274	0.005	0.5	ug/L	77	Standard
|	Se	77	511.0	2.0	4.7451	0.130	2.7	ug/L	61	Standard
|	Se	78	4403.7	2.6	1.4681	0.063	4.3	ug/L	4310	Standard
|	Br	79	66809.2	1.2				ug/L	239	Standard
|	Se	82	243.7	6.6	1.0858	0.138	12.7	ug/L	84	Standard
|	Kr	83	108.7	10.7				ug/L	76	Standard
|	Y	89	658228.1	1.0				ug/L	713390	Standard
|	Rh	103	459619.2	1.6				ug/L	551749	Standard
|	Cd	111	461.6	4.0	0.0621	0.009	14.5	ug/L	386	Standard
|	Cd	114	227.9	7.4	0.0437	0.003	8.0	ug/L	17	Standard
[>	In	115	316253.5	0.2				ug/L	363277	Standard
[>	Tb	159	384833.0	0.7				ug/L	419625	Standard
|	Hf	165	379745.9	1.3				ug/L	415867	Standard
|	Pb	208	1380.7	3.6	0.0259	0.001	5.4	ug/L	693	Standard
|	Bi	209	225297.0	0.4				ug/L	277440	Standard
|	Th	232	385754.9	0.1				ug/L	412751	Standard
|	Cr-1	52	153.7	12.6	0.1797	0.029	16.3	ug/L	38	KED
|	Cr-1	53	18.3	42.4	0.1765	0.096	54.4	ug/L	5	KED
[>	Ge-1	72	6463.8	0.5				ug/L	7220	KED
|	As-2	75	38.0	26.3	1.1350	0.298	26.3	ug/L	0	KED
|	Y-1	89	12043.7	1.5				ug/L	12743	KED
|	Rh-1	103	72185.3	0.7				ug/L	84468	KED
|	Cd-1	111	6.7	48.2	0.0401	0.021	52.8	ug/L	1	KED
|	Cd-1	114	21.5	14.3	0.0486	0.008	17.1	ug/L	3	KED
[>	In-1	115	7707.9	1.3				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		105.882
	Cr	52		
	Cr	53		
[>	Ge	72		90.826
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	87.056
Tb	159	91.709
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	89.524
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	92.164

Quantitative Analysis - Summary Report

Sample ID: 02-068-06d 2X

Sample Date/Time: Tuesday, February 08, 2022 11:26:33

Report Date/Time: Tuesday, February 08, 2022 12:35:25

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-06d 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	563280.2	1.5				ug/L	502408	Standard
|	Cr	52	47865.7	1.7	3.1359	0.041	1.3	ug/L	5150	Standard
|	Cr	53	3593.8	3.3	2.2302	0.043	1.9	ug/L	183	Standard
[>	Ge	72	268977.1	2.6				ug/L	290606	Standard
|	As	75	5723.3	2.1	1.9998	0.149	7.5	ug/L	3627	Standard
|	As-1	75	2488.3	2.8	1.9571	0.081	4.1	ug/L	77	Standard
|	Se	77	465.0	3.7	4.1779	0.284	6.8	ug/L	61	Standard
|	Se	78	4960.5	0.5	2.8649	0.377	13.2	ug/L	4310	Standard
|	Br	79	178795.5	1.8				ug/L	239	Standard
|	Se	82	483.7	3.4	2.5843	0.166	6.4	ug/L	84	Standard
|	Kr	83	128.0	6.8				ug/L	76	Standard
|	Y	89	665619.2	0.5				ug/L	713390	Standard
|	Rh	103	457943.8	0.8				ug/L	551749	Standard
|	Cd	111	369.8	3.4	0.0175	0.006	32.5	ug/L	386	Standard
|	Cd	114	23.1	12.5	0.0018	0.001	34.1	ug/L	17	Standard
[>	In	115	315046.8	0.3				ug/L	363277	Standard
[>	Tb	159	382849.6	0.0				ug/L	419625	Standard
|	Ho	165	379703.5	0.8				ug/L	415867	Standard
|	Pb	208	1226.4	4.2	0.0207	0.002	8.7	ug/L	693	Standard
|	Bi	209	223663.0	0.4				ug/L	277440	Standard
|	Th	232	389055.8	0.7				ug/L	412751	Standard
|	Cr-1	52	534.3	5.7	0.7494	0.040	5.4	ug/L	38	KED
|	Cr-1	53	72.3	12.8	0.8502	0.112	13.2	ug/L	5	KED
[>	Ge-1	72	6467.5	1.6				ug/L	7220	KED
|	As-2	75	45.7	24.1	1.3675	0.340	24.9	ug/L	0	KED
|	Y-1	89	12077.4	1.5				ug/L	12743	KED
|	Rh-1	103	70533.7	0.8				ug/L	84468	KED
|	Cd-1	111	1.0	100.0	0.0025	0.007	259.8	ug/L	1	KED
|	Cd-1	114	4.4	15.7	0.0047	0.002	36.7	ug/L	3	KED
[>	In-1	115	7742.7	0.6				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		112.116
|	Cr	52		
|	Cr	53		
[>	Ge	72		92.557
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-06d 2X

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Cd	114	
In	115	86.724
Tb	159	91.236
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	89.575
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	92.580

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 08, 2022 11:31:03

Report Date/Time: Tuesday, February 08, 2022 12:35:28

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 6.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	516295.1	0.4				ug/L	502408	Standard
|	Cr	52	497878.5	3.2	40.0336	1.110	2.8	ug/L	5150	Standard
|	Cr	53	55426.0	2.0	39.6734	0.607	1.5	ug/L	183	Standard
>	Ge	72	295755.3	3.0				ug/L	290606	Standard
|	As	75	55787.4	2.3	40.0117	0.663	1.7	ug/L	3627	Standard
|	As-1	75	54451.6	2.8	40.0293	0.631	1.6	ug/L	77	Standard
|	Se	77	4367.0	2.0	40.0300	0.458	1.1	ug/L	61	Standard
|	Se	78	19121.8	0.8	39.4552	1.546	3.9	ug/L	4310	Standard
|	Br	79	735.0	9.8				ug/L	239	Standard
|	Se	82	6924.3	2.2	39.5999	0.972	2.5	ug/L	84	Standard
|	Kr	83	82.3	9.1				ug/L	76	Standard
|	Y	89	725782.6	1.3				ug/L	713390	Standard
|	Rh	103	554303.4	0.6				ug/L	551749	Standard
|	Cd	111	95376.7	0.4	39.9453	0.652	1.6	ug/L	386	Standard
|	Cd	114	228421.8	0.7	39.8404	0.517	1.3	ug/L	17	Standard
>	In	115	371422.0	1.2				ug/L	363277	Standard
>	Tb	159	426111.6	0.9				ug/L	419625	Standard
|	Ho	165	421012.6	0.7				ug/L	415867	Standard
|	Pb	208	1261522.1	0.6	39.5448	0.572	1.4	ug/L	693	Standard
|	Bi	209	282038.3	1.5				ug/L	277440	Standard
|	Th	232	425414.4	1.9				ug/L	412751	Standard
|	Cr-1	52	30719.7	1.1	38.5094	0.991	2.6	ug/L	38	KED
|	Cr-1	53	3701.8	1.3	38.6712	1.041	2.7	ug/L	5	KED
>	Ge-1	72	7716.8	1.6				ug/L	7220	KED
|	As-2	75	1526.4	1.0	38.5028	0.755	2.0	ug/L	0	KED
|	Y-1	89	13589.8	1.6				ug/L	12743	KED
|	Rh-1	103	86750.6	1.0				ug/L	84468	KED
|	Cd-1	111	6829.3	2.2	38.4273	0.832	2.2	ug/L	1	KED
|	Cd-1	114	17647.2	2.2	38.3987	1.416	3.7	ug/L	3	KED
>	In-1	115	9095.3	2.7				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		102.764
|	Cr	52	100.084	
|	Cr	53	99.184	
>	Ge	72		101.772
|	As	75	100.029	
|	As-1	75	100.073	
	Se	77	100.075	
	Se	78	98.638	
	Br	79		
	Se	82	99.000	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.863	

Sample ID: QC Std 6

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Cd	114	99.601	
In	115		102.242
Tb	159		101.546
Ho	165		
Pb	208	98.862	
Bi	209		
Th	232		
Cr-1	52	96.273	
Cr-1	53	96.678	
Ge-1	72		106.878
As-2	75	96.257	
Y-1	89		
Rh-1	103		
Cd-1	111	96.068	
Cd-1	114	95.997	
In-1	115		108.753

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 08, 2022 11:35:31
 Report Date/Time: Tuesday, February 08, 2022 12:35:30
 Method File: C:\NexIONData_kmckinney\Method\X220208B.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 7.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	527049.9	1.8				ug/L	502408	Standard
|	Cr	52	252127.0	1.4	19.6452	0.083	0.4	ug/L	5150	Standard
|	Cr	53	28646.0	1.8	20.0203	0.052	0.3	ug/L	183	Standard
>	Ge	72	303296.2	1.9				ug/L	290606	Standard
|	As	75	29753.5	1.7	19.4455	0.223	1.1	ug/L	3627	Standard
|	As-1	75	27081.0	1.8	19.3834	0.358	1.8	ug/L	77	Standard
|	Se	77	2220.2	2.0	19.5496	0.320	1.6	ug/L	61	Standard
|	Se	78	11810.9	0.8	19.0839	0.386	2.0	ug/L	4310	Standard
|	Br	79	438.7	3.9				ug/L	239	Standard
|	Se	82	3437.4	3.0	18.9154	0.844	4.5	ug/L	84	Standard
|	Kr	83	111.7	7.7				ug/L	76	Standard
|	Y	89	732923.0	1.1				ug/L	713390	Standard
|	Rh	103	557513.9	0.7				ug/L	551749	Standard
|	Cd	111	47664.0	0.3	19.6674	0.115	0.6	ug/L	386	Standard
|	Cd	114	114226.5	0.1	19.7113	0.081	0.4	ug/L	17	Standard
>	In	115	375349.4	0.3				ug/L	363277	Standard
>	Tb	159	442643.9	1.1				ug/L	419625	Standard
|	Ho	165	431765.0	0.4				ug/L	415867	Standard
|	Pb	208	646039.1	0.3	19.4834	0.170	0.9	ug/L	693	Standard
|	Bi	209	289637.7	0.5				ug/L	277440	Standard
|	Th	232	440911.7	0.1				ug/L	412751	Standard
|	Cr-1	52	15459.4	0.9	19.4050	0.277	1.4	ug/L	38	KED
|	Cr-1	53	1872.5	2.9	19.5815	0.331	1.7	ug/L	5	KED
>	Ge-1	72	7695.4	1.3				ug/L	7220	KED
|	As-2	75	754.4	2.5	19.0712	0.253	1.3	ug/L	0	KED
|	Y-1	89	13539.7	1.2				ug/L	12743	KED
|	Rh-1	103	88224.6	0.9				ug/L	84468	KED
|	Cd-1	111	3481.4	0.8	19.4437	0.366	1.9	ug/L	1	KED
|	Cd-1	114	8806.7	0.7	19.0127	0.321	1.7	ug/L	3	KED
>	In-1	115	9161.6	1.2				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.905
|	Cr	52	98.226	
|	Cr	53	100.101	
>	Ge	72		104.367
|	As	75	97.227	
|	As-1	75	96.917	
|	Se	77	97.748	
|	Se	78	95.420	
|	Br	79		
|	Se	82	94.577	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	98.337	

Cd	114	98.557	
In	115		103.323
Tb	159		105.485
Ho	165		
Pb	208	97.417	
Bi	209		
Th	232		
Cr-1	52	97.025	
Cr-1	53	97.907	
Ge-1	72		106.582
As-2	75	95.356	
Y-1	89		
Rh-1	103		
Cd-1	111	97.218	
Cd-1	114	95.064	
In-1	115		109.547

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, February 08, 2022 11:40:01
 Report Date/Time: Tuesday, February 08, 2022 12:35:32
 Method File: C:\NexIONData_kmckinney\Method\X220208B.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 8.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	530051.2	1.0				ug/L	502408	Standard
|	Cr	52	5876.2	2.8	0.0350	0.010	28.9	ug/L	5150	Standard
|	Cr	53	171.0	4.6	-0.0156	0.007	42.3	ug/L	183	Standard
[>	Ge	72	303487.5	0.5				ug/L	290606	Standard
|	As	75	3712.0	2.4	-0.0567	0.062	109.7	ug/L	3627	Standard
|	As-1	75	148.2	24.4	0.0483	0.025	52.7	ug/L	77	Standard
|	Se	77	61.3	11.1	-0.0248	0.060	240.7	ug/L	61	Standard
|	Se	78	4417.3	2.2	-0.2173	0.248	114.0	ug/L	4310	Standard
|	Br	79	353.7	6.2				ug/L	239	Standard
|	Se	82	120.3	7.0	0.1819	0.044	24.4	ug/L	84	Standard
|	Kr	83	116.0	6.8				ug/L	76	Standard
|	Y	89	746145.6	1.1				ug/L	713390	Standard
|	Rh	103	567402.5	0.4				ug/L	551749	Standard
|	Cd	111	402.5	1.8	-0.0013	0.002	172.7	ug/L	386	Standard
|	Cd	114	17.7	57.3	0.0000	0.002	27046.2	ug/L	17	Standard
[>	In	115	382034.0	0.5				ug/L	363277	Standard
[>	Tb	159	447062.2	0.4				ug/L	419625	Standard
|	Ho	165	439156.1	0.7				ug/L	415867	Standard
|	Pb	208	705.3	0.8	-0.0010	0.000	24.8	ug/L	693	Standard
|	Bi	209	293586.4	0.4				ug/L	277440	Standard
|	Th	232	445524.6	0.3				ug/L	412751	Standard
|	Cr-1	52	41.0	32.0	-0.0005	0.016	3149.3	ug/L	38	KED
|	Cr-1	53	6.0	16.7	0.0088	0.010	116.0	ug/L	5	KED
[>	Ge-1	72	7937.5	1.1				ug/L	7220	KED
|	As-2	75	1.3	43.3	0.0238	0.014	60.6	ug/L	0	KED
|	Y-1	89	14010.9	1.2				ug/L	12743	KED
|	Rh-1	103	89411.0	1.3				ug/L	84468	KED
|	Cd-1	111	1.3	43.3	0.0033	0.003	98.2	ug/L	1	KED
|	Cd-1	114	2.1	78.3	-0.0022	0.004	160.8	ug/L	3	KED
[>	In-1	115	9259.7	2.2				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		105.502
|	Cr	52		
|	Cr	53		
[>	Ge	72		104.433
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114	
In	115	105.163
Tb	159	106.538
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	109.936
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	110.720

Quantitative Analysis - Summary Report

Sample ID: 02-068-01dD 2X

Sample Date/Time: Tuesday, February 08, 2022 11:44:25

Report Date/Time: Tuesday, February 08, 2022 12:35:34

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dD 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	541073.5	0.7				ug/L	502408	Standard
|	Cr	52	22257.0	2.1	1.2961	0.039	3.0	ug/L	5150	Standard
|	Cr	53	1860.5	4.1	1.1396	0.046	4.1	ug/L	183	Standard
>	Ge	72	295308.6	1.7				ug/L	290606	Standard
|	As	75	6665.1	1.9	2.2912	0.022	1.0	ug/L	3627	Standard
|	As-1	75	3134.3	2.7	2.2527	0.046	2.1	ug/L	77	Standard
|	Se	77	92.7	15.1	0.2818	0.121	42.9	ug/L	61	Standard
|	Se	78	4465.7	3.4	0.2302	0.294	127.8	ug/L	4310	Standard
|	Br	79	4323.3	0.4				ug/L	239	Standard
|	Se	82	154.3	7.8	0.3973	0.054	13.7	ug/L	84	Standard
|	Kr	83	110.3	17.8				ug/L	76	Standard
|	Y	89	731691.4	0.5				ug/L	713390	Standard
|	Rh	103	527882.4	0.9				ug/L	551749	Standard
|	Cd	111	377.5	7.1	-0.0026	0.011	420.4	ug/L	386	Standard
|	Cd	114	106.7	8.4	0.0162	0.002	10.9	ug/L	17	Standard
>	In	115	361066.9	0.8				ug/L	363277	Standard
>	Tb	159	432022.7	0.6				ug/L	419625	Standard
|	Ho	165	429167.4	0.2				ug/L	415867	Standard
|	Pb	208	6861.3	1.3	0.1902	0.002	1.2	ug/L	693	Standard
|	Bi	209	270978.6	0.6				ug/L	277440	Standard
|	Th	232	437545.4	0.7				ug/L	412751	Standard
|	Cr-1	52	803.4	3.0	1.0233	0.048	4.7	ug/L	38	KED
|	Cr-1	53	106.3	12.8	1.1295	0.119	10.5	ug/L	5	KED
>	Ge-1	72	7249.5	2.9				ug/L	7220	KED
|	As-2	75	76.7	9.6	2.0509	0.209	10.2	ug/L	0	KED
|	Y-1	89	13408.3	0.7				ug/L	12743	KED
|	Rh-1	103	82062.0	0.8				ug/L	84468	KED
|	Cd-1	111	4.0	25.0	0.0192	0.006	30.0	ug/L	1	KED
|	Cd-1	114	6.5	18.4	0.0081	0.003	33.5	ug/L	3	KED
>	In-1	115	8773.5	0.5				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.696
|	Cr	52		
|	Cr	53		
>	Ge	72		101.618
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-068-01dD 2X

Report Date/Time: Tuesday, February 08, 2022 12:35:34

Cd	114	
In	115	99.392
Tb	159	102.954
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.406
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	104.906

Quantitative Analysis - Summary Report

Sample ID: 02-068-01dL 10X

Sample Date/Time: Tuesday, February 08, 2022 11:48:54

Report Date/Time: Tuesday, February 08, 2022 12:35:36

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dL 10X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	522438.5	1.1				ug/L	502408	Standard
|	Cr	52	8592.3	3.4	0.2600	0.022	8.3	ug/L	5150	Standard
|	Cr	53	515.0	5.4	0.2302	0.019	8.3	ug/L	183	Standard
>	Ge	72	297038.4	3.4				ug/L	290606	Standard
|	As	75	4249.6	2.0	0.4158	0.054	12.9	ug/L	3627	Standard
|	As-1	75	671.0	7.6	0.4336	0.028	6.5	ug/L	77	Standard
|	Se	77	68.7	12.2	0.0557	0.080	143.5	ug/L	61	Standard
|	Se	78	4424.4	2.1	0.0569	0.302	530.5	ug/L	4310	Standard
|	Br	79	1099.7	2.4				ug/L	239	Standard
|	Se	82	116.3	3.6	0.1737	0.003	1.8	ug/L	84	Standard
|	Kr	83	97.0	5.5				ug/L	76	Standard
|	Y	89	730093.6	1.7				ug/L	713390	Standard
|	Rh	103	540096.6	1.1				ug/L	551749	Standard
|	Cd	111	334.6	3.0	-0.0245	0.003	12.4	ug/L	386	Standard
|	Cd	114	41.7	12.7	0.0043	0.001	21.7	ug/L	17	Standard
>	In	115	369654.3	1.3				ug/L	363277	Standard
>	Tb	159	439169.7	1.1				ug/L	419625	Standard
|	Ho	165	434042.5	0.5				ug/L	415867	Standard
|	Pb	208	1856.4	2.1	0.0344	0.001	3.9	ug/L	693	Standard
|	Bi	209	282175.9	0.4				ug/L	277440	Standard
|	Th	232	434463.9	0.8				ug/L	412751	Standard
|	Cr-1	52	177.7	0.9	0.1809	0.001	0.8	ug/L	38	KED
|	Cr-1	53	28.0	19.9	0.2521	0.062	24.8	ug/L	5	KED
>	Ge-1	72	7433.9	1.3				ug/L	7220	KED
|	As-2	75	17.3	21.8	0.4449	0.099	22.3	ug/L	0	KED
|	Y-1	89	13383.9	1.7				ug/L	12743	KED
|	Rh-1	103	84897.9	1.3				ug/L	84468	KED
|	Cd-1	111	2.7	57.3	0.0114	0.009	77.8	ug/L	1	KED
|	Cd-1	114	2.1	71.6	-0.0020	0.003	162.5	ug/L	3	KED
>	In-1	115	8819.5	0.6				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		103.987
|	Cr	52		
|	Cr	53		
>	Ge	72		102.213
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-068-01dL 10X

Report Date/Time: Tuesday, February 08, 2022 12:35:36

Cd	114	
In	115	101.755
Tb	159	104.658
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	102.961
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.455

Quantitative Analysis - Summary Report

Sample ID: 02-068-01dMS 2X

Sample Date/Time: Tuesday, February 08, 2022 11:53:23

Report Date/Time: Tuesday, February 08, 2022 12:35:38

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dMS 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	542505.7	1.6				ug/L	502408	Standard
|	Cr	52	464048.2	2.8	35.4606	0.464	1.3	ug/L	5150	Standard
|	Cr	53	52264.5	2.6	35.5963	1.052	3.0	ug/L	183	Standard
>	Ge	72	297355.3	3.0				ug/L	290606	Standard
|	As	75	55075.8	2.5	39.2351	0.578	1.5	ug/L	3627	Standard
|	As-1	75	53361.2	2.1	39.0172	0.381	1.0	ug/L	77	Standard
|	Se	77	4083.9	2.9	37.1855	0.136	0.4	ug/L	61	Standard
|	Se	78	17936.6	1.5	36.0098	0.698	1.9	ug/L	4310	Standard
|	Br	79	4456.0	1.1				ug/L	239	Standard
|	Se	82	6285.4	3.4	35.7073	1.408	3.9	ug/L	84	Standard
|	Kr	83	115.3	14.3				ug/L	76	Standard
|	Y	89	723719.1	1.1				ug/L	713390	Standard
|	Rh	103	516904.2	1.6				ug/L	551749	Standard
|	Cd	111	84988.4	1.6	36.9413	0.439	1.2	ug/L	386	Standard
|	Cd	114	202051.9	2.0	36.5868	0.491	1.3	ug/L	17	Standard
>	In	115	357708.8	0.9				ug/L	363277	Standard
>	Tb	159	430810.2	2.1				ug/L	419625	Standard
|	Ho	165	427783.5	1.6				ug/L	415867	Standard
|	Pb	208	1150899.1	0.4	35.6877	0.662	1.9	ug/L	693	Standard
|	Bi	209	272667.2	0.2				ug/L	277440	Standard
|	Th	232	439960.9	0.7				ug/L	412751	Standard
|	Cr-1	52	27628.4	0.2	37.1550	0.394	1.1	ug/L	38	KED
|	Cr-1	53	3277.7	1.8	36.7317	0.758	2.1	ug/L	5	KED
>	Ge-1	72	7191.5	1.0				ug/L	7220	KED
|	As-2	75	1412.4	1.1	38.2228	0.330	0.9	ug/L	0	KED
|	Y-1	89	13202.4	0.5				ug/L	12743	KED
|	Rh-1	103	80503.2	0.7				ug/L	84468	KED
|	Cd-1	111	5998.9	0.8	34.9679	0.398	1.1	ug/L	1	KED
|	Cd-1	114	15539.1	0.9	35.0144	0.117	0.3	ug/L	3	KED
>	In-1	115	8778.2	1.2				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.981
|	Cr	52		
|	Cr	53		
>	Ge	72		102.322
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-01dMS 2X

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Cd	114	
In	115	98.467
Tb	159	102.665
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.603
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	104.962

Quantitative Analysis - Summary Report

Sample ID: 02-068-01dMSD 2X

Sample Date/Time: Tuesday, February 08, 2022 11:57:51

Report Date/Time: Tuesday, February 08, 2022 12:35:40

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\02-068-01dMSD 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	539403.0	1.2				ug/L	502408	Standard
|	Cr	52	483457.7	2.4	37.1785	0.538	1.4	ug/L	5150	Standard
|	Cr	53	54009.3	1.7	36.9942	0.203	0.5	ug/L	183	Standard
>	Ge	72	290413.5	1.8				ug/L	290606	Standard
|	As	75	57146.3	3.2	41.8464	0.595	1.4	ug/L	3627	Standard
|	As-1	75	55218.4	2.8	41.3319	0.399	1.0	ug/L	77	Standard
|	Se	77	4209.3	3.7	39.2660	0.727	1.9	ug/L	61	Standard
|	Se	78	18460.3	1.4	38.5669	0.402	1.0	ug/L	4310	Standard
|	Br	79	4435.4	1.4				ug/L	239	Standard
|	Se	82	6394.8	0.7	37.2123	0.883	2.4	ug/L	84	Standard
|	Kr	83	118.7	6.8				ug/L	76	Standard
|	Y	89	719353.6	0.5				ug/L	713390	Standard
|	Rh	103	518739.8	1.4				ug/L	551749	Standard
|	Cd	111	87760.6	0.8	37.9921	0.190	0.5	ug/L	386	Standard
|	Cd	114	210149.7	0.7	37.8971	0.402	1.1	ug/L	17	Standard
>	In	115	359228.1	1.3				ug/L	363277	Standard
>	Tb	159	435478.5	1.3				ug/L	419625	Standard
|	Ho	165	432873.5	0.5				ug/L	415867	Standard
|	Pb	208	1198226.8	0.9	36.7510	0.433	1.2	ug/L	693	Standard
|	Bi	209	271936.1	1.2				ug/L	277440	Standard
|	Th	232	439004.7	0.4				ug/L	412751	Standard
|	Cr-1	52	28529.8	0.4	38.8490	0.351	0.9	ug/L	38	KED
|	Cr-1	53	3476.8	1.6	39.4497	0.267	0.7	ug/L	5	KED
>	Ge-1	72	7102.8	1.3				ug/L	7220	KED
|	As-2	75	1512.4	2.6	41.4516	1.508	3.6	ug/L	0	KED
|	Y-1	89	13113.3	0.4				ug/L	12743	KED
|	Rh-1	103	80726.1	0.9				ug/L	84468	KED
|	Cd-1	111	6200.3	0.3	36.2908	0.751	2.1	ug/L	1	KED
|	Cd-1	114	16276.5	0.9	36.8277	0.738	2.0	ug/L	3	KED
>	In-1	115	8743.8	1.8				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.364
|	Cr	52		
|	Cr	53		
>	Ge	72		99.934
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-01dMSD 2X

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Cd	114	
In	115	98.885
Tb	159	103.778
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.374
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	104.551

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 08, 2022 12:02:19

Report Date/Time: Tuesday, February 08, 2022 12:35:42

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 6.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	525026.9	1.9				ug/L	502408	Standard
|	Cr	52	502952.3	2.0	39.7691	0.183	0.5	ug/L	5150	Standard
|	Cr	53	56645.8	1.8	39.8795	0.719	1.8	ug/L	183	Standard
>	Ge	72	307690.3	1.8				ug/L	290606	Standard
|	As	75	57266.1	3.1	39.4271	0.640	1.6	ug/L	3627	Standard
|	As-1	75	55267.8	2.7	39.0436	0.470	1.2	ug/L	77	Standard
|	Se	77	4434.7	1.7	39.0586	0.914	2.3	ug/L	61	Standard
|	Se	78	19622.8	2.7	38.7243	0.488	1.3	ug/L	4310	Standard
|	Br	79	325.3	8.9				ug/L	239	Standard
|	Se	82	6820.6	1.2	37.4569	0.197	0.5	ug/L	84	Standard
|	Kr	83	114.0	4.9				ug/L	76	Standard
|	Y	89	746601.0	0.6				ug/L	713390	Standard
|	Rh	103	556855.6	0.1				ug/L	551749	Standard
|	Cd	111	96822.5	1.1	39.8700	0.341	0.9	ug/L	386	Standard
|	Cd	114	230137.4	0.3	39.4682	0.098	0.2	ug/L	17	Standard
>	In	115	377708.9	0.5				ug/L	363277	Standard
>	Tb	159	446997.8	0.8				ug/L	419625	Standard
|	Ho	165	443816.6	0.2				ug/L	415867	Standard
|	Pb	208	1321182.2	0.3	39.4781	0.310	0.8	ug/L	693	Standard
|	Bi	209	297381.4	0.3				ug/L	277440	Standard
|	Th	232	449356.8	0.2				ug/L	412751	Standard
|	Cr-1	52	30302.8	0.6	38.4273	0.182	0.5	ug/L	38	KED
|	Cr-1	53	3610.8	0.9	38.1572	0.356	0.9	ug/L	5	KED
>	Ge-1	72	7626.4	0.8				ug/L	7220	KED
|	As-2	75	1492.1	1.9	38.0737	0.469	1.2	ug/L	0	KED
|	Y-1	89	13609.8	0.7				ug/L	12743	KED
|	Rh-1	103	86655.0	0.5				ug/L	84468	KED
|	Cd-1	111	6885.0	2.1	37.9816	0.732	1.9	ug/L	1	KED
|	Cd-1	114	17693.4	1.3	37.7427	1.078	2.9	ug/L	3	KED
>	In-1	115	9275.7	2.0				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.502
|	Cr	52	99.423	
|	Cr	53	99.699	
>	Ge	72		105.879
|	As	75	98.568	
|	As-1	75	97.609	
	Se	77	97.646	
	Se	78	96.811	
	Br	79		
	Se	82	93.642	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.675	

Sample ID: QC Std 6

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Cd	114	98.671	
In	115		103.973
Tb	159		106.523
Ho	165		
Pb	208	98.695	
Bi	209		
Th	232		
Cr-1	52	96.068	
Cr-1	53	95.393	
Ge-1	72		105.626
As-2	75	95.184	
Y-1	89		
Rh-1	103		
Cd-1	111	94.954	
Cd-1	114	94.357	
In-1	115		110.911

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 08, 2022 12:06:50

Report Date/Time: Tuesday, February 08, 2022 12:35:44

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 7.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	514658.2	1.7				ug/L	502408	Standard
	Cr	52	244977.7	2.7	19.5444	0.413	2.1	ug/L	5150	Standard
	Cr	53	27332.5	3.4	19.5616	0.698	3.6	ug/L	183	Standard
>	Ge	72	298043.7	1.5				ug/L	290606	Standard
	As	75	29736.9	1.7	19.8258	0.376	1.9	ug/L	3627	Standard
	As-1	75	27214.9	1.3	19.8226	0.231	1.2	ug/L	77	Standard
	Se	77	2287.5	4.2	20.5214	0.710	3.5	ug/L	61	Standard
	Se	78	11760.8	2.1	19.4910	0.577	3.0	ug/L	4310	Standard
	Br	79	273.0	2.2				ug/L	239	Standard
	Se	82	3486.1	1.3	19.5288	0.044	0.2	ug/L	84	Standard
	Kr	83	78.0	12.6				ug/L	76	Standard
	Y	89	728974.3	1.2				ug/L	713390	Standard
	Rh	103	542680.8	1.0				ug/L	551749	Standard
	Cd	111	48164.7	0.8	20.3382	0.157	0.8	ug/L	386	Standard
	Cd	114	113853.3	0.6	20.1004	0.129	0.6	ug/L	17	Standard
>	In	115	366890.7	1.0				ug/L	363277	Standard
>	Tb	159	441040.5	0.7				ug/L	419625	Standard
	Ho	165	437806.4	1.3				ug/L	415867	Standard
	Pb	208	644731.1	0.2	19.5140	0.109	0.6	ug/L	693	Standard
	Bi	209	288802.6	1.1				ug/L	277440	Standard
	Th	232	441659.4	0.5				ug/L	412751	Standard
	Cr-1	52	14789.7	0.9	19.0709	0.530	2.8	ug/L	38	KED
	Cr-1	53	1792.4	3.1	19.2592	0.730	3.8	ug/L	5	KED
>	Ge-1	72	7492.6	2.0				ug/L	7220	KED
	As-2	75	716.7	2.1	18.6114	0.249	1.3	ug/L	0	KED
	Y-1	89	13307.5	0.7				ug/L	12743	KED
	Rh-1	103	84988.7	0.2				ug/L	84468	KED
	Cd-1	111	3437.1	2.2	19.4402	0.672	3.5	ug/L	1	KED
	Cd-1	114	8887.8	0.6	19.4282	0.216	1.1	ug/L	3	KED
>	In-1	115	9047.9	1.3				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		102.438
	Cr	52	97.722	
	Cr	53	97.808	
>	Ge	72		102.559
	As	75	99.129	
	As-1	75	99.113	
	Se	77	102.607	
	Se	78	97.455	
	Br	79		
	Se	82	97.644	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	101.691	

Sample ID: QC Std 7

Report Date/Time: Tuesday, February 08, 2022 12:35:44

Cd	114	100.502	
In	115		100.995
Tb	159		105.103
Ho	165		
Pb	208	97.570	
Bi	209		
Th	232		
Cr-1	52	95.355	
Cr-1	53	96.296	
Ge-1	72		103.774
As-2	75	93.057	
Y-1	89		
Rh-1	103		
Cd-1	111	97.201	
Cd-1	114	97.141	
In-1	115		108.187

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, February 08, 2022 12:11:19

Report Date/Time: Tuesday, February 08, 2022 12:35:46

Method File: C:\NexIONData_kmckinney\Method\X220208B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220208B\QC Std 8.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	515199.1	2.0				ug/L	502408	Standard
|	Cr	52	5548.7	2.1	0.0218	0.005	24.7	ug/L	5150	Standard
|	Cr	53	195.3	4.3	0.0053	0.004	84.7	ug/L	183	Standard
>	Ge	72	298815.7	3.5				ug/L	290606	Standard
|	As	75	3621.0	3.8	-0.0816	0.090	110.1	ug/L	3627	Standard
|	As-1	75	76.7	33.2	-0.0021	0.018	839.0	ug/L	77	Standard
|	Se	77	61.0	14.8	-0.0205	0.063	308.4	ug/L	61	Standard
|	Se	78	4306.0	2.8	-0.3275	0.313	95.6	ug/L	4310	Standard
|	Br	79	237.0	3.8				ug/L	239	Standard
|	Se	82	85.3	5.5	-0.0070	0.041	590.2	ug/L	84	Standard
|	Kr	83	77.7	6.4				ug/L	76	Standard
|	Y	89	726410.3	0.2				ug/L	713390	Standard
|	Rh	103	545495.9	0.6				ug/L	551749	Standard
|	Cd	111	388.7	5.7	-0.0037	0.009	240.9	ug/L	386	Standard
|	Cd	114	21.6	25.0	0.0008	0.001	123.1	ug/L	17	Standard
>	In	115	374355.2	0.2				ug/L	363277	Standard
>	Tb	159	442533.2	0.5				ug/L	419625	Standard
|	Ho	165	435560.8	1.1				ug/L	415867	Standard
|	Pb	208	686.0	2.1	-0.0014	0.001	37.5	ug/L	693	Standard
|	Bi	209	292211.1	0.8				ug/L	277440	Standard
|	Th	232	441542.4	0.3				ug/L	412751	Standard
|	Cr-1	52	39.3	6.4	0.0004	0.004	965.9	ug/L	38	KED
|	Cr-1	53	5.3	21.7	0.0053	0.012	229.3	ug/L	5	KED
>	Ge-1	72	7485.6	1.2				ug/L	7220	KED
|	As-2	75	0.7	86.6	0.0083	0.015	180.4	ug/L	0	KED
|	Y-1	89	13631.2	0.9				ug/L	12743	KED
|	Rh-1	103	86185.9	1.0				ug/L	84468	KED
|	Cd-1	111	1.3	114.6	0.0034	0.009	253.6	ug/L	1	KED
|	Cd-1	114	1.9	60.0	-0.0025	0.003	99.4	ug/L	3	KED
>	In-1	115	9153.6	0.6				ug/L	8363	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		102.546
|	Cr	52		
|	Cr	53		
>	Ge	72		102.825
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Tuesday, February 08, 2022 12:35:46

Cd	114	
In	115	103.049
Tb	159	105.459
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.677
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	109.451

Dissolved Methane
RSK 175

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220208\0208010.D
 Acq On : 8 Feb 2022 12:57
 Sample : 02-068-01
 Misc :

Vial: 10
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:47 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) Methane	0.69	995911	248.269	ppm m
2) Ethane	0.84	92705	10.705	ppm
3) Ethene	1.07	22718	2.561	ppm
4) 1-Butene	4.31	14144	79061.090	ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208010.D
Acq On : 8 Feb 2022 12:57
Sample : 02-068-01
Misc :

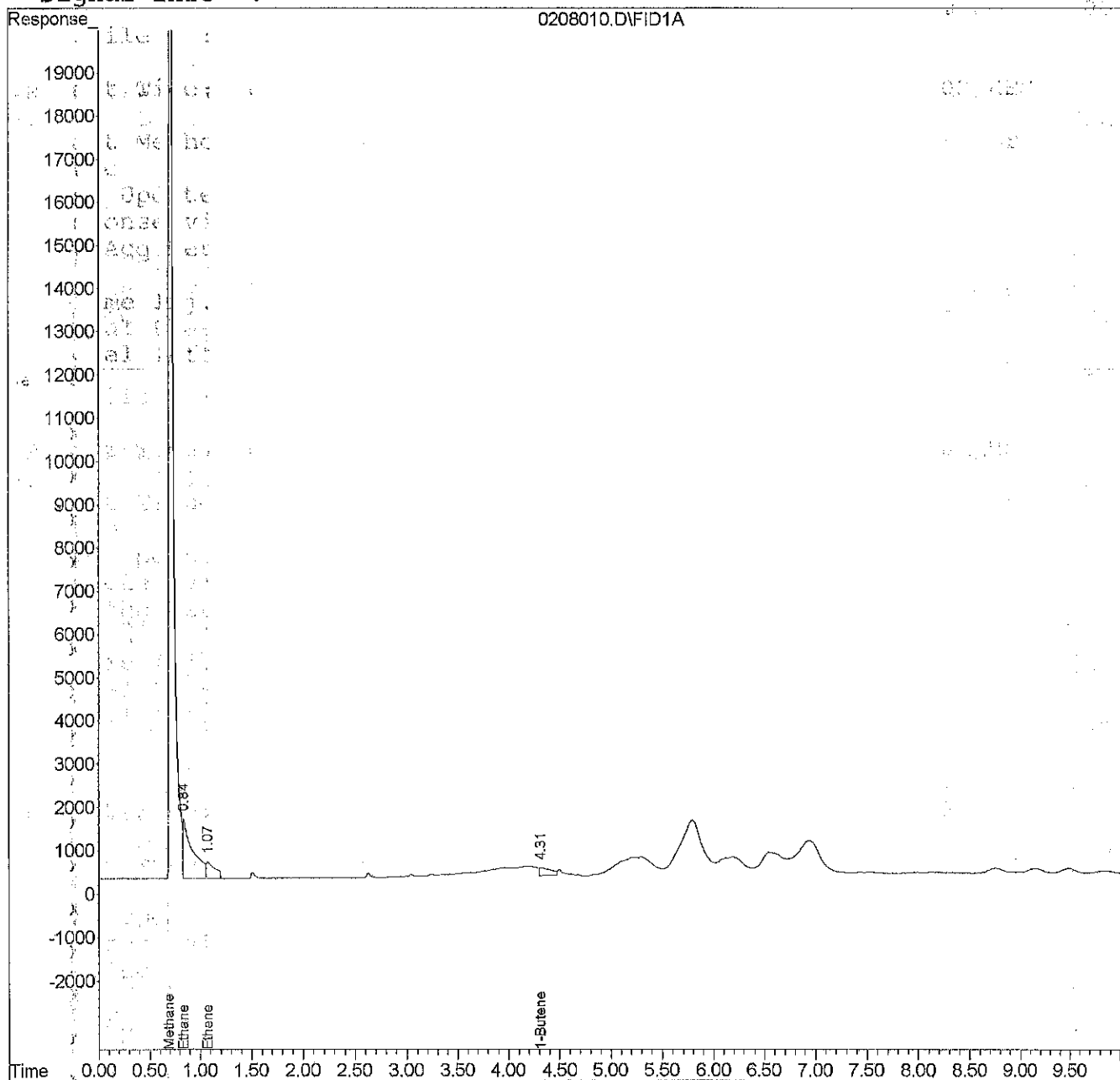
Vial: 10
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:47 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208012.D
 Acq On : 8 Feb 2022 13:12
 Sample : 02-068-02 6X
 Misc :

Vial: 12
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 13:21 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj: :
 Signal Phase :
 Signal Info :

LUCY
 1.00
 0.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2955577	740.141 ppm
2) Ethane	0.84	252659	29.735 ppm
3) Ethene	1.07	57168	6.468 ppm
4) 1-Butene	4.50	681	3807.381 ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208012.D
Acq On : 8 Feb 2022 13:12
Sample : 02-068-02 6X
Misc :

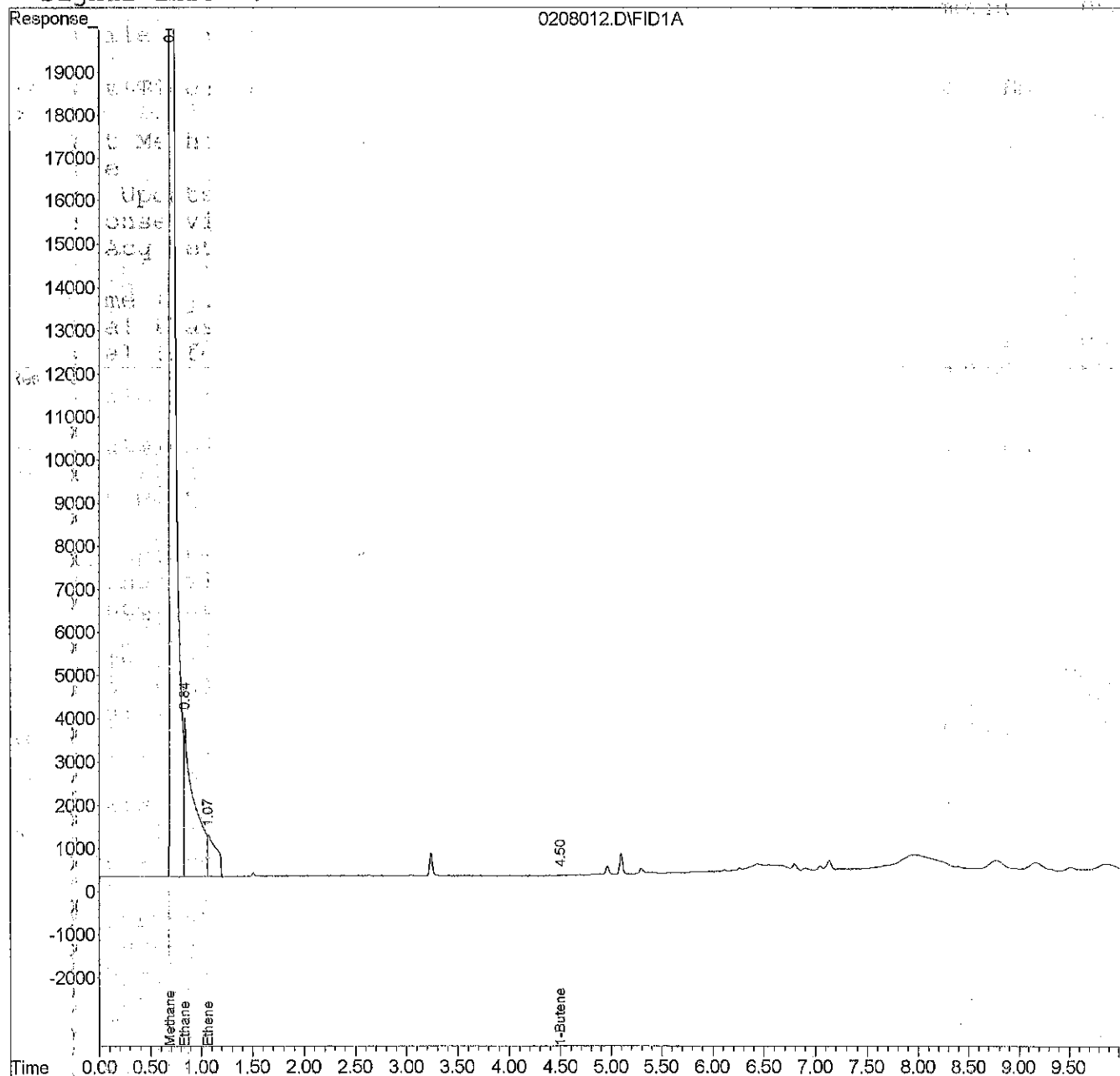
Vial: 12
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 13:21 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208014.D Vial: 14
 Acq On : 8 Feb 2022 13:42 Operator: NM
 Sample : 02-068-03 10X Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : autoint1.e

Quant Time: Feb 8 13:48 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.69	2900852	726.405 ppm
2) Ethane	0.69	2900852	344.788 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	4.70	653	3649.628 ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208014.D
Acq On : 8 Feb 2022 13:42
Sample : 02-068-03 10X
Misc :

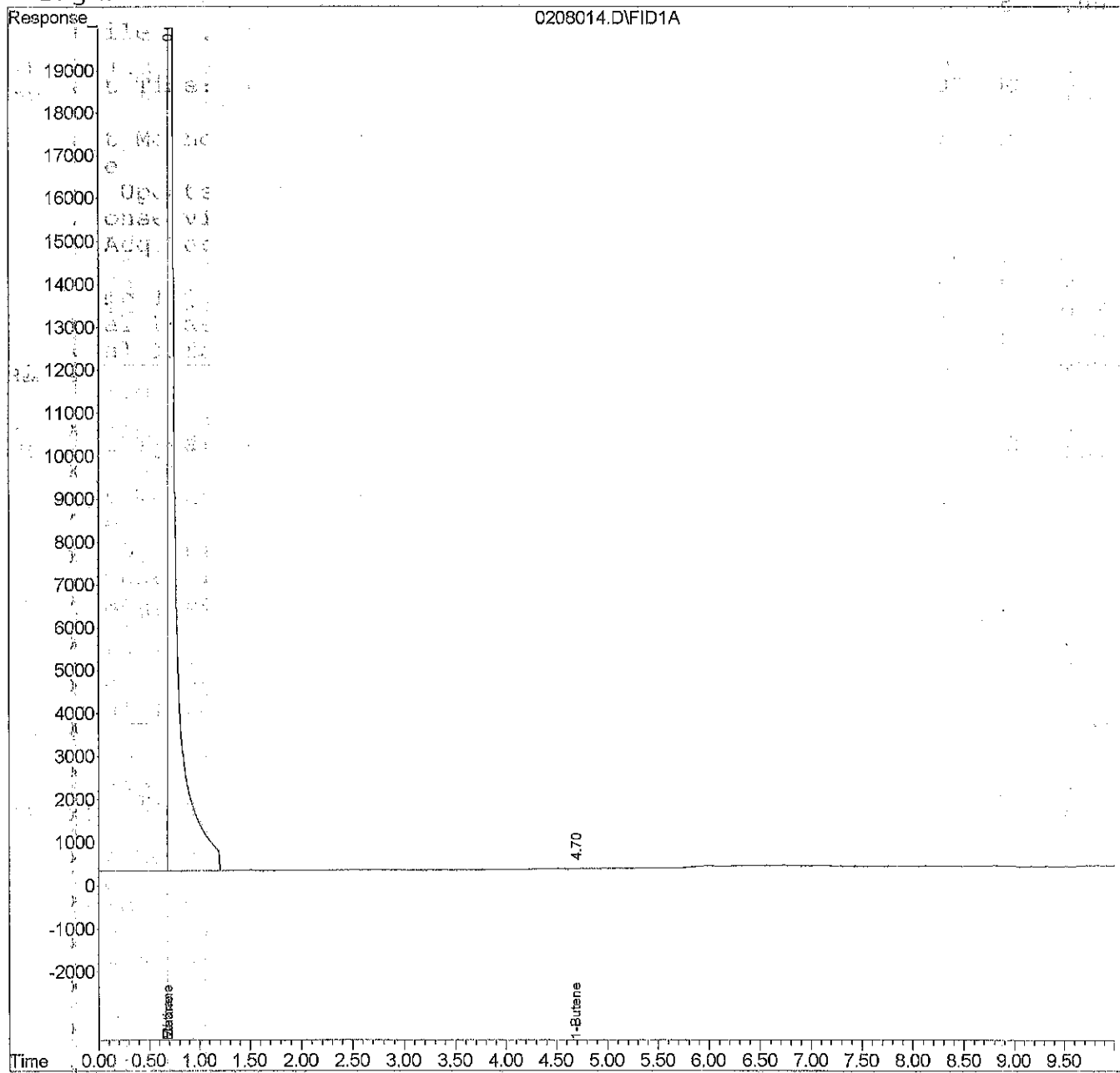
Vial: 14
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 13:48 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208017.D
 Acq On : 8 Feb 2022 14:27
 Sample : 02-068-04 10X RR
 Misc :

Vial: 17
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 14:34 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	2800640	701.252 ppm
2) Ethane	0.70	2800640	332.866 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208017.D
Acq On : 8 Feb 2022 14:27
Sample : 02-068-04 10X RR
Misc :

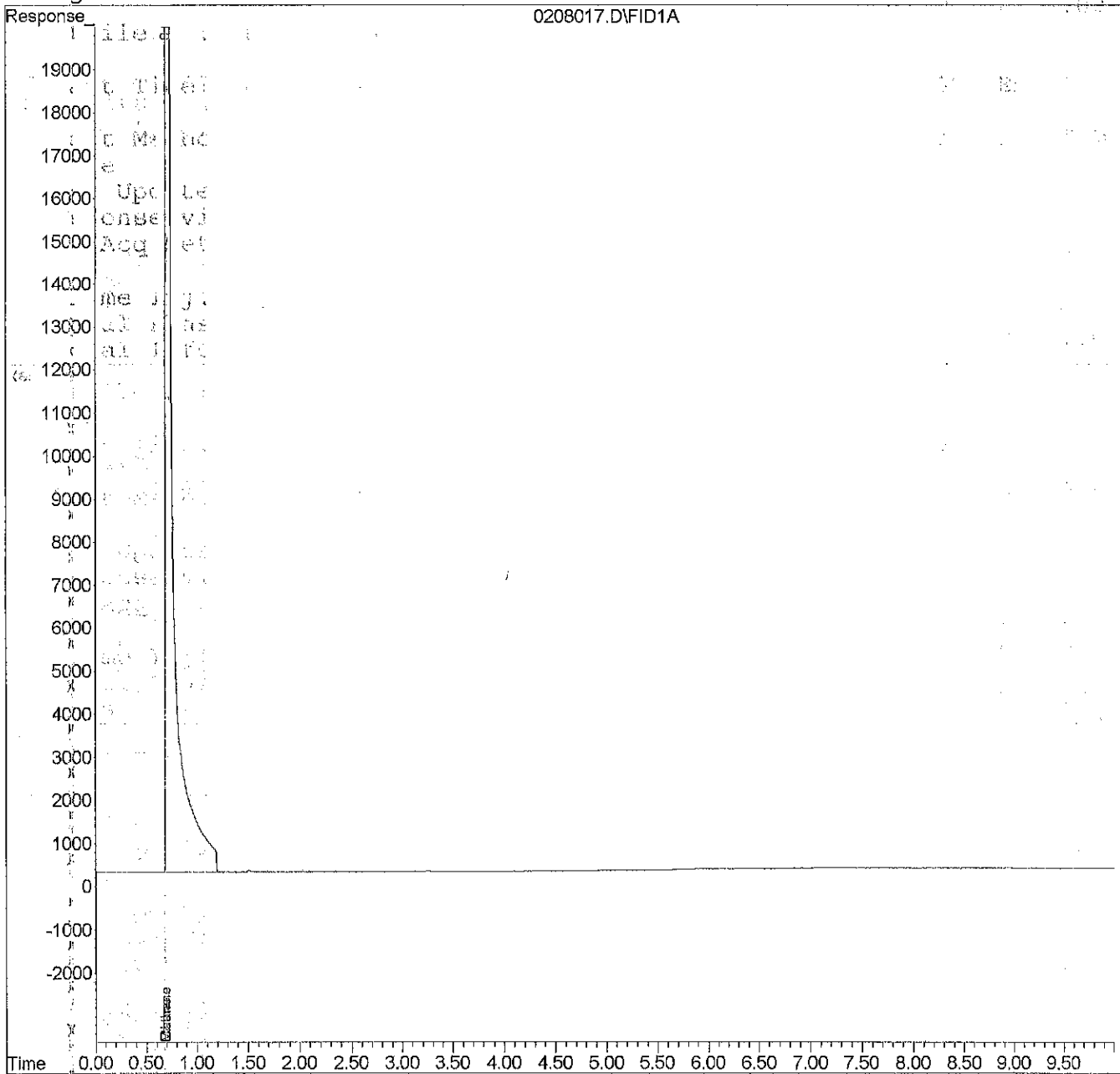
Vial: 17
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 14:34 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :



Data File: E:\1\DATA\L220208\0208018.D Vial: 18
 Acq On : 8 Feb 2022 14:42 Operator: NM
 Sample : 02-068-05 20X Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : autoint1.e

Quant Time: Feb 8 14:47 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	3105057	777.660 ppm
2) Ethane	0.69	3105057	369.082 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208018.D
Acq On : 8 Feb 2022 14:42
Sample : 02-068-05 20X
Misc :

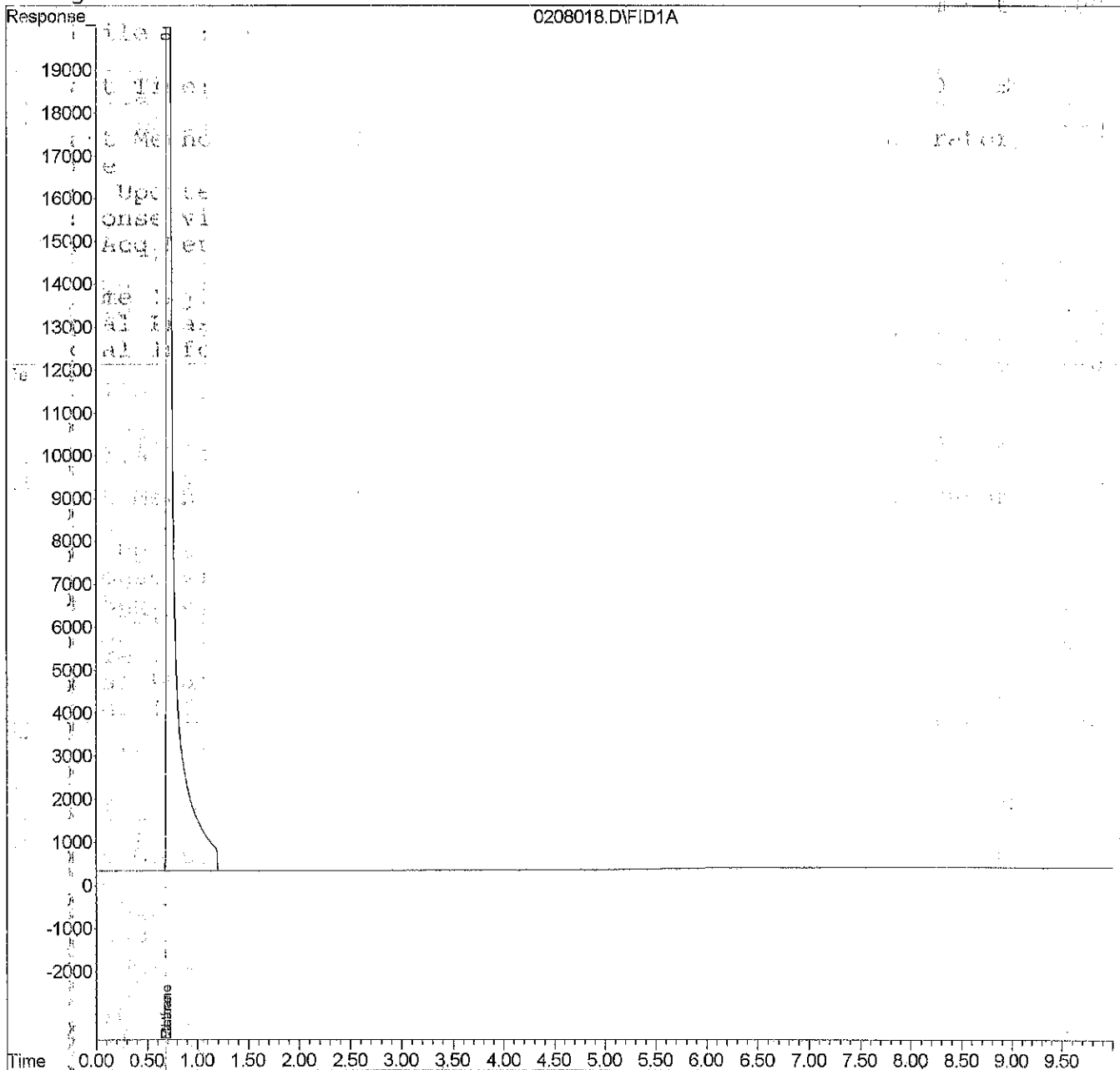
Vial: 18
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 14:47 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208022.D
 Acq On : 8 Feb 2022 16:43
 Sample : 02-068-06 400X
 Misc :

Vial: 22
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:40 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	1245310	310.867 ppm
2) Ethane	0.69	1245310	147.830 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208022.D
Acq On : 8 Feb 2022 16:43
Sample : 02-068-06 400X
Misc :

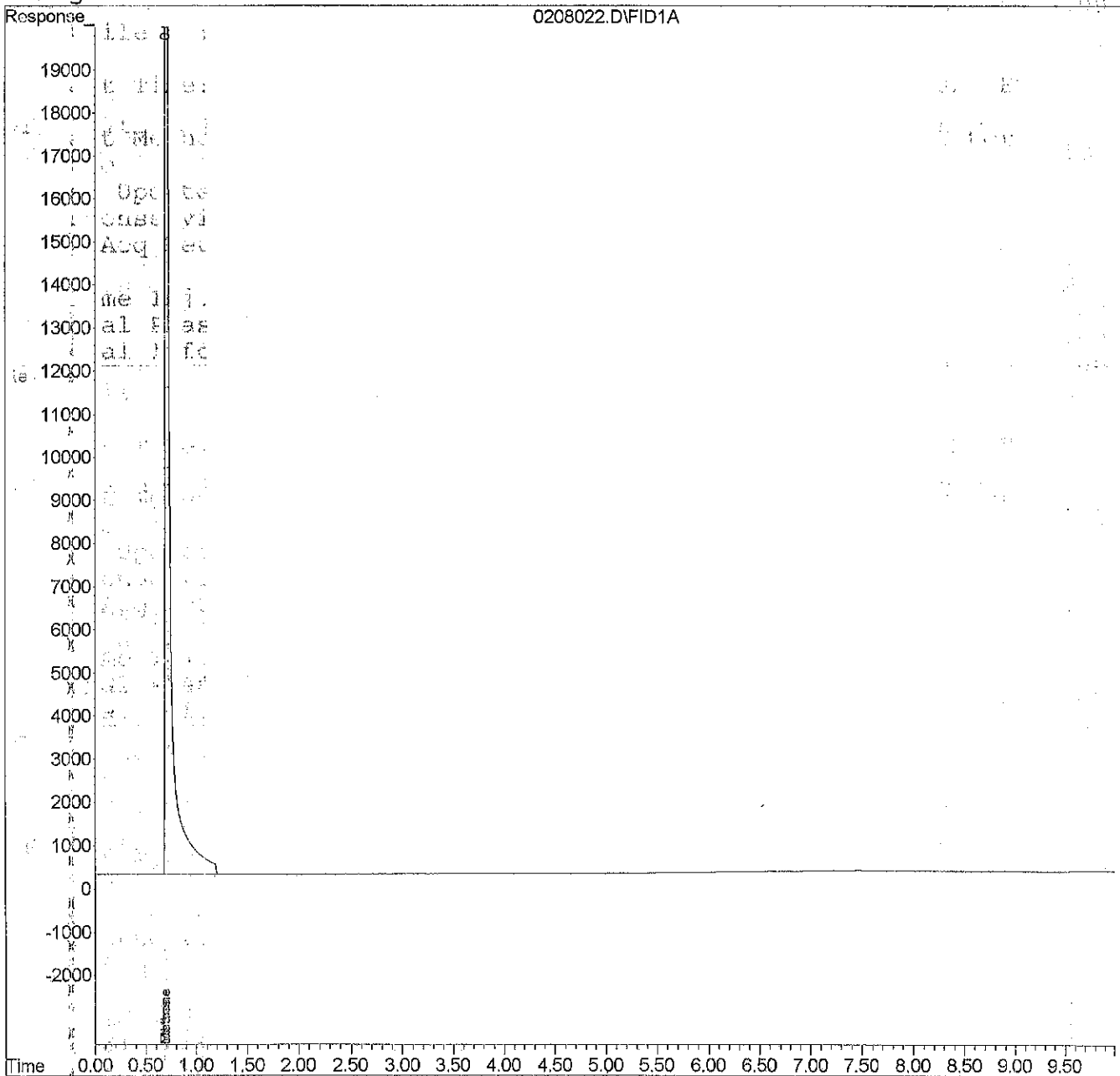
Vial: 22
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:40 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208002.D
 Acq On : 8 Feb 2022 9:27
 Sample : MB0208W1
 Misc :
 IntFile : autoint1.e

Vial: 2
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Feb 8 16:38 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

0.00
 0.00
 0.00

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.75	21776	3.762 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208002.D
Acq On : 8 Feb 2022 9:27
Sample : MB0208W1
Misc :

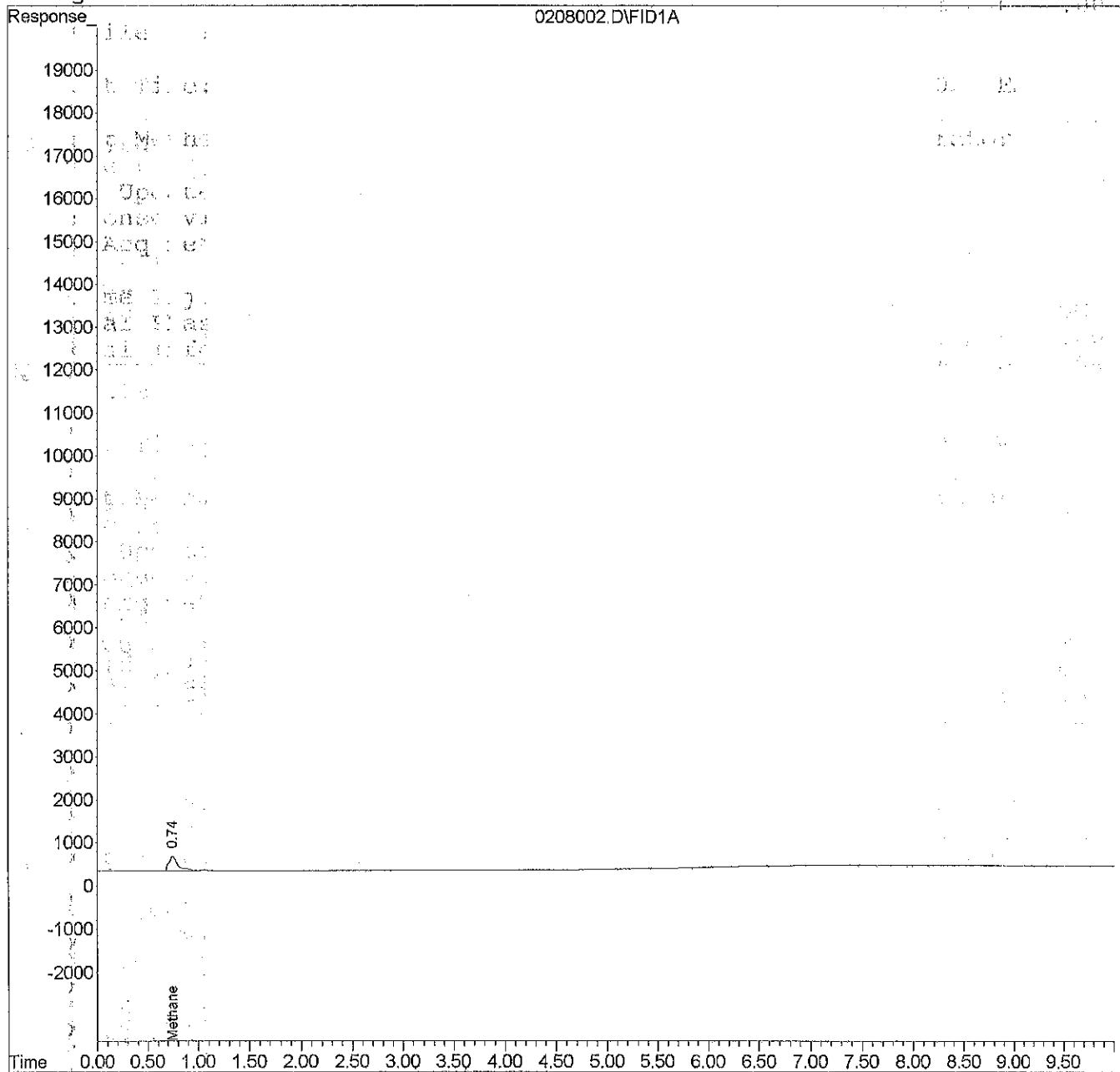
Vial: 2
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 16:38 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L220208\0208006.D
 Acq On : 8 Feb 2022 11:12
 Sample : SB0208W1 RRR
 Misc :

Vial: 6
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:18 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1339287	334.455 ppm
2) Ethane	0.84	2578946	306.491 ppm
3) Ethene	1.07	1896971	215.124 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208006.D
Acq On : 8 Feb 2022 11:12
Sample : SB0208W1 RRR
Misc :

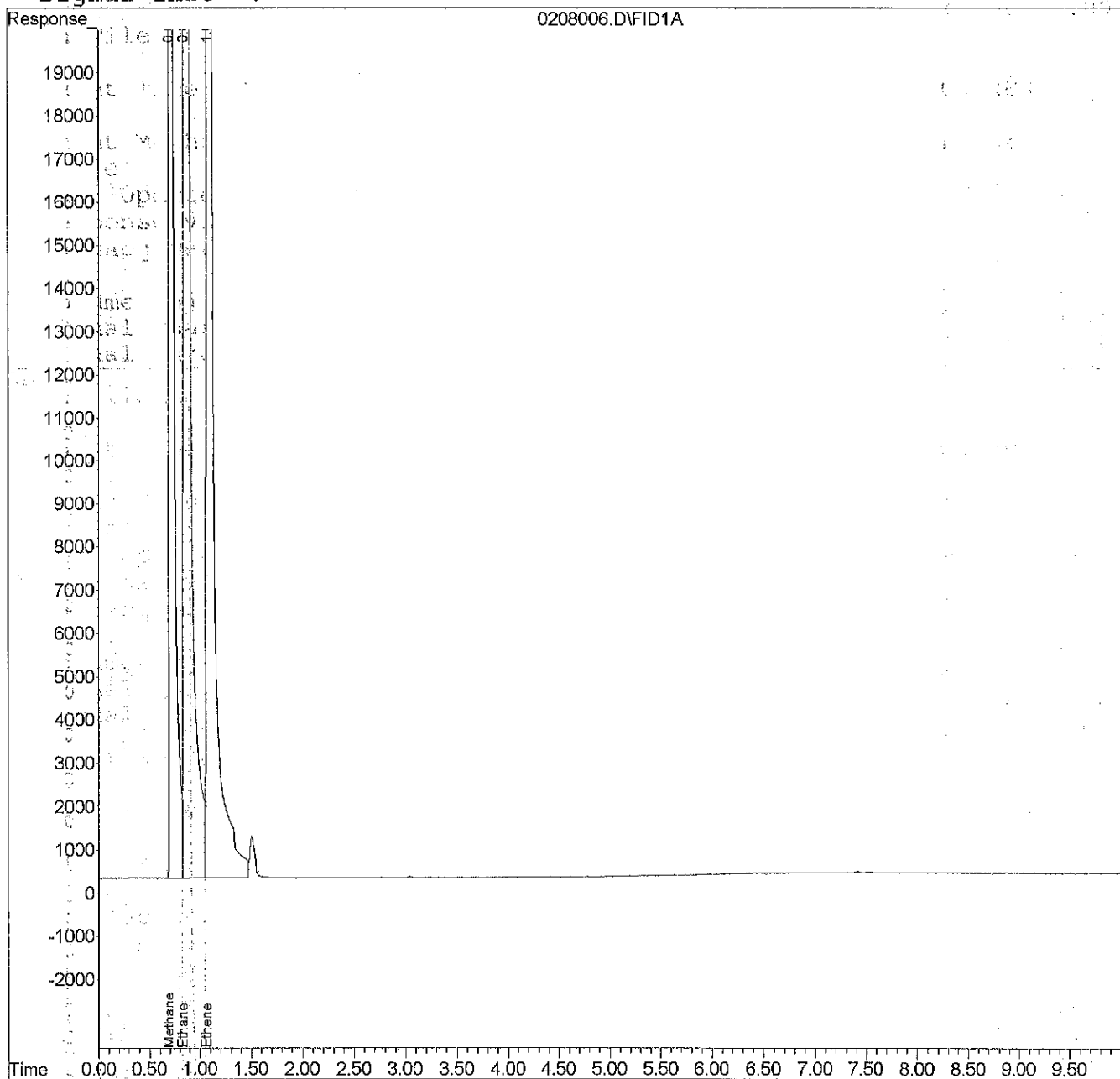
Vial: 6
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:18 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L220208\0208007.D
 Acq On : 8 Feb 2022 11:27
 Sample : SB0208W1 DUP RR
 Misc :

Vial: 7
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:37 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

0.00
 0.00
 0.00
 0.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1388998	346.933 ppm
2) Ethane	0.84	2681086	318.643 ppm
3) Ethene	1.07	1991603	225.856 ppm
4) 1-Butene	4.68	816	4560.093 ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208007.D
Acq On : 8 Feb 2022 11:27
Sample : SB0208W1 DUP RR
Misc :

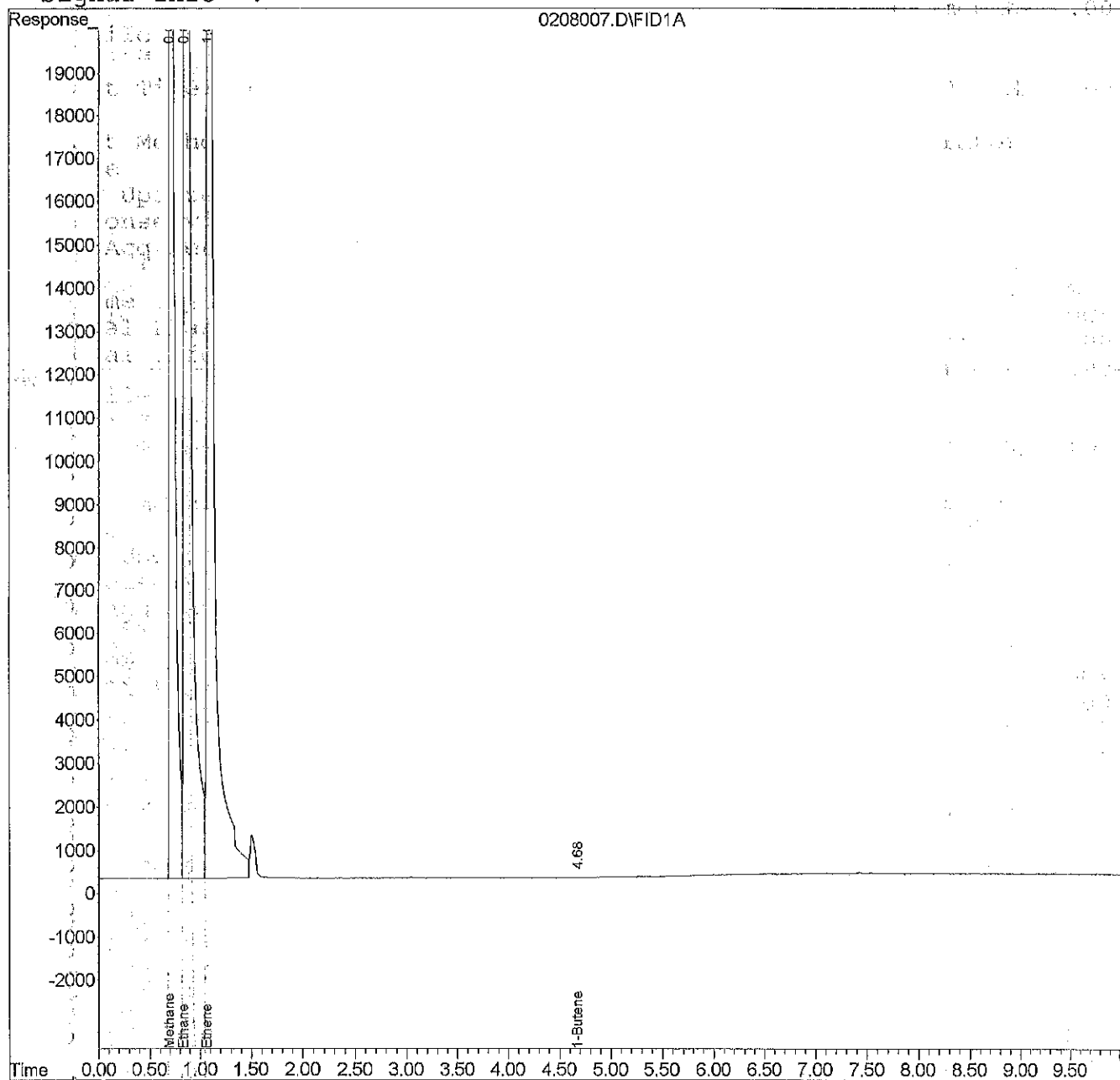
Vial: 7
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 11:37 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : E:\1\DATA\L220208\0208001.D
 Acq On : 8 Feb 2022 8:27
 Sample : CCV0208DG-L1
 Misc : DG1-002-21

Vial: 1
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 8:36 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

IM
 LUCY
 .00
 .00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1972396	493.364 ppm
2) Ethane	0.84	4067700	483.607 ppm
3) Ethene	1.06	4322137	490.167 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208001.D
Acq On : 8 Feb 2022 8:27
Sample : CCV0208DG-L1
Misc : DG1-002-21

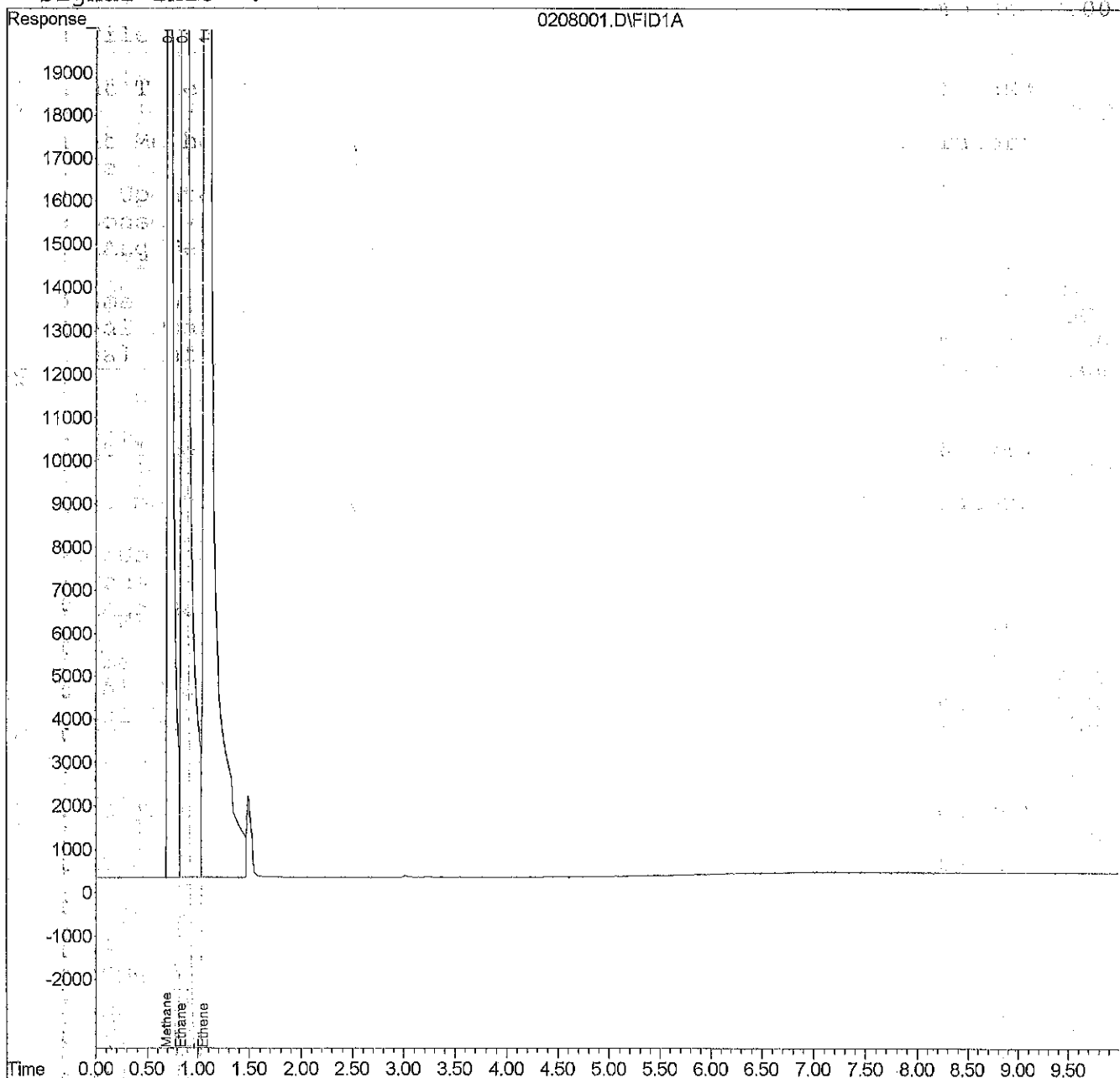
Vial: 1
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 8:36 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208020.D Vial: 20
 Acq On : 8 Feb 2022 15:58 Operator: NM
 Sample : CCV0208DG-L2 Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : autoint1.e

Quant Time: Feb 8 15:57 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1961509	490.632 ppm
2) Ethane	0.84	4112968	488.992 ppm
3) Ethene	1.08	4304880	488.210 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208020.D
Acq On : 8 Feb 2022 15:58
Sample : CCV0208DG-L2
Misc :

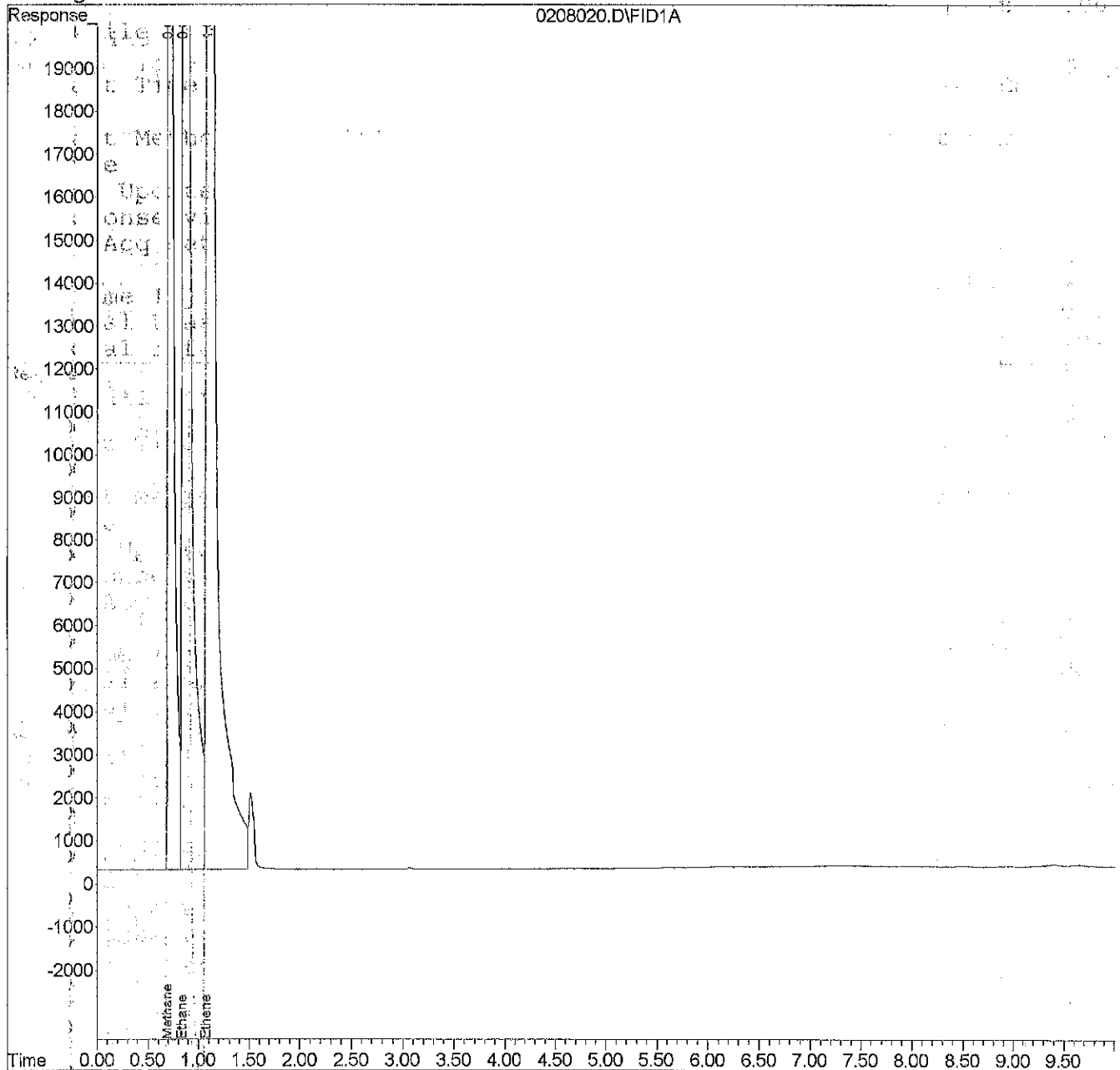
Vial: 20
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 15:57 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj: :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220208\0208024.D
 Acq On : 8 Feb 2022 17:01
 Sample : CCV0208DG-L3
 Misc :

Vial: 24
 Operator: NMA
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 17:09 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2005196	501.597 ppm
2) Ethane	0.84	4176858	496.593 ppm
3) Ethene	1.08	4368530	495.428 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : E:\1\DATA\L220208\0208024.D
Acq On : 8 Feb 2022 17:01
Sample : CCV0208DG-L3
Misc :

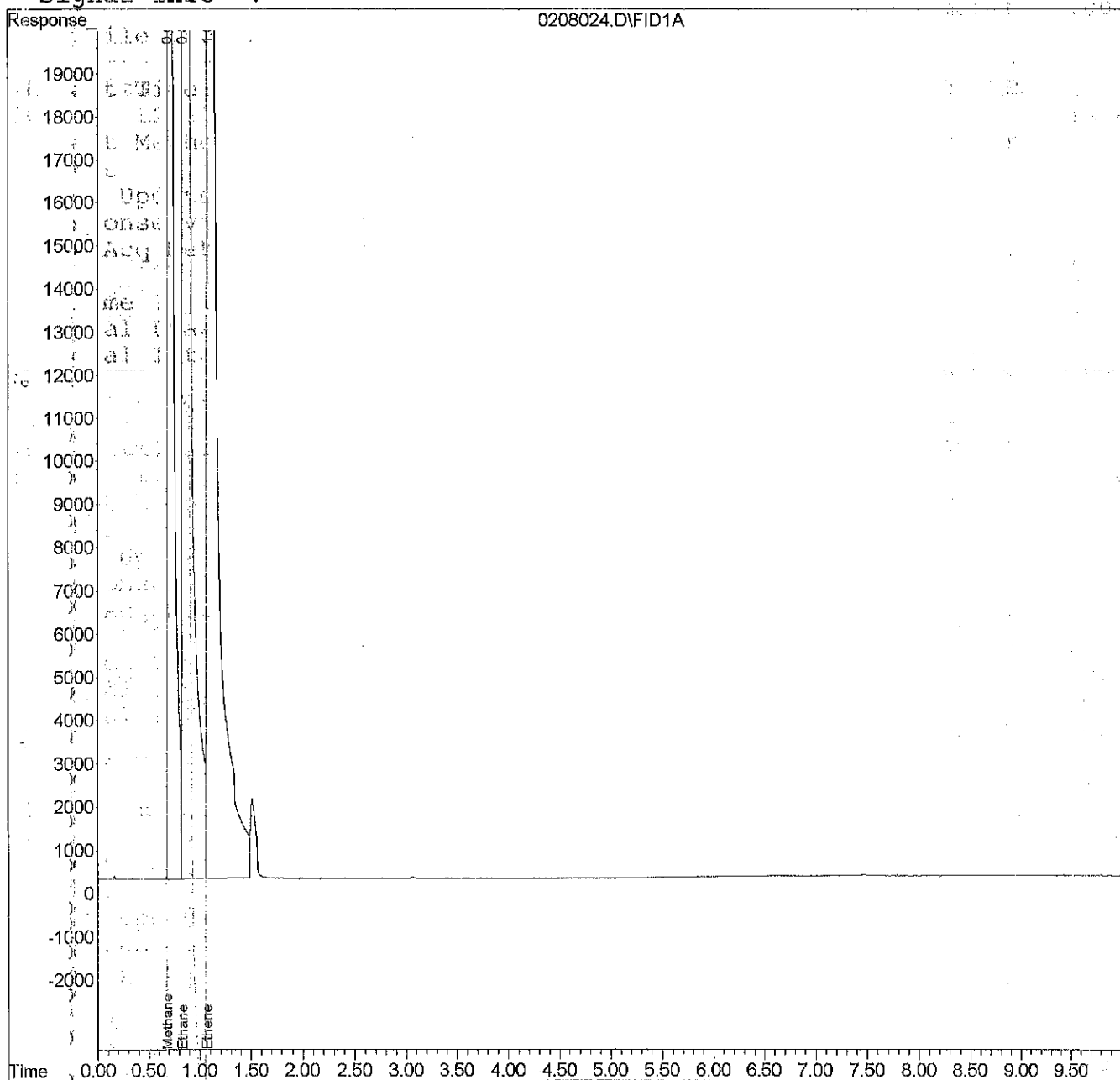
Vial: 24
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 8 17:09 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Alkalinity
SM 2320B Data

Alkalinity
Method SM2320 B

Date Analyzed: 2/14/22
 Analyst: 101
 Titrant Lot #: 217056100

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 0214W1	0.02N	50	X	X	0.05	
SB 0214W1		25			2.65 - 0.05 = 2.60	Spike ID =
02-007-01e					9.15 - 2.65 = 6.5	
↓ -01e DUF					6.4	REFILL
02-092-01e					10 - 6.4 = 3.6 + 4.05 = 7.65	
↓ -02e					7.2 - 4.05 = 3.15	
02-068-01e					9.7 - 7.2 = 2.5	
↓ -02e					5.5	REFILL
↓ -03e					10 - 5.5 = 4.5 + 2.45 = 6.95	
↓ -04e					9.45 - 2.45 = 7.0	REFILL 2/14
↓ -05e					4.7	REFILL
↓ -06e					10 - 4.7 = 5.3 + 5.6 = 10.9	
02-136-01					6.4 - 5.6 = 0.80	
02-137-01					6.85 - 6.4 = 0.45	
↓ -02					7.45 - 6.85 = 0.60	
↓ -03		✓			7.8 - 7.45 = 0.35	
↓ -01		100			9.6 - 7.8 = 1.8	
↓ -03		100	↓	↓	1.45	REFILL
02-141-01c		25	7.48	X	7.3	REFILL
↓ -02c	✓	↓	7.59	X	7.15	REFILL



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 16, 2022

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-024-11
Laboratory Reference No. 2202-092

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on February 8, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", enclosed within a large, loopy circular flourish.

Blair Goodrow
Project Manager

Enclosures



Date of Report: February 16, 2022
Samples Submitted: February 8, 2022
Laboratory Reference: 2202-092
Project: 5147-024-11

Case Narrative

Samples were collected on February 7, 2022 and received by the laboratory on February 8, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: February 16, 2022
Samples Submitted: February 8, 2022
Laboratory Reference: 2202-092
Project: 5147-024-11

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2A_020722	02-092-01	Water	2-7-22	2-8-22	
MW-3_020722	02-092-02	Water	2-7-22	2-8-22	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	66-117				
Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	66-117				



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-14-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	2-9-22	2-14-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Diesel Range Organics	0.58	0.22	NWTPH-Dx	2-9-22	2-11-22	
Lube Oil Range Organics	0.27	0.22	NWTPH-Dx	2-9-22	2-11-22	N1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Diesel Range Organics	ND	0.22	NWTPH-Dx	2-9-22	2-12-22	X1
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	2-9-22	2-12-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-9-22	2-9-22	
n-Hexane	ND	1.0	EPA 8260D	2-9-22	2-9-22	
Benzene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-9-22	2-9-22	
Toluene	ND	1.0	EPA 8260D	2-9-22	2-9-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-9-22	2-9-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-9-22	2-9-22	
o-Xylene	ND	0.20	EPA 8260D	2-9-22	2-9-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	98	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	95	78-125

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-9-22	2-9-22	
n-Hexane	ND	1.0	EPA 8260D	2-9-22	2-9-22	
Benzene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-9-22	2-9-22	
Toluene	ND	1.0	EPA 8260D	2-9-22	2-9-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-9-22	2-9-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-9-22	2-9-22	
o-Xylene	ND	0.20	EPA 8260D	2-9-22	2-9-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	98	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	100	78-125



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Arsenic	4.6	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

DISSOLVED METALS
EPA 200.8/6010D/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Arsenic	3.8	3.0	EPA 200.8		2-9-22	
Cadmium	ND	4.0	EPA 200.8		2-9-22	
Chromium	ND	10	EPA 200.8		2-9-22	
Lead	ND	1.0	EPA 200.8		2-9-22	
Manganese	160	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Arsenic	ND	3.0	EPA 200.8		2-9-22	
Cadmium	ND	4.0	EPA 200.8		2-9-22	
Chromium	ND	10	EPA 200.8		2-9-22	
Lead	ND	1.0	EPA 200.8		2-9-22	
Manganese	24	11	EPA 6010D		2-9-22	
Mercury	ND	0.025	EPA 7470A		2-11-22	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Total Alkalinity	310	2.0	SM 2320B	2-14-22	2-14-22	

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Total Alkalinity	130	2.0	SM 2320B	2-14-22	2-14-22	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_020722					
Laboratory ID:	02-092-01					
Methane	220	1.7	RSK 175	2-16-22	2-16-22	

Client ID:	MW-3_020722					
Laboratory ID:	02-092-02					
Methane	140	1.1	RSK 175	2-16-22	2-16-22	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0208W1					
Gasoline	ND	100	NWTPH-Gx	2-8-22	2-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-068-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	90	66-117		



Date of Report: February 16, 2022
Samples Submitted: February 8, 2022
Laboratory Reference: 2202-092
Project: 5147-024-11

**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0208G-1	2.50	2.51	0	+/- 20%
CCVH0208G-2	2.50	2.39	4	+/- 20%



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0209W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	2-9-22	2-10-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	2-9-22	2-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	118	50-150				
Laboratory ID:	MB0209W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	2-9-22	2-11-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	2-9-22	2-11-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	126	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0209W1							
	ORIG	DUP						
Diesel Fuel #2	0.460	0.417	NA	NA	NA	NA	10	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				101	89	50-150		
Laboratory ID:	SB0209W1							
	ORIG	DUP						
Diesel Fuel #2	0.495	0.484	NA	NA	NA	NA	2	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				110	108	50-150		



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0210R-V3	100	99.3	0.7	+/-15%
CCV0210R-V4	100	94.7	5.3	+/-15%
CCV0211F-V2	100	94.2	5.8	+/-15%
CCV0211F-V3	100	97.1	2.9	+/-15%
CCV0211R-V2	100	94.7	5.3	+/-15%
CCV0211R-V3	100	93.5	6.5	+/-15%
CCV0211R-V4	100	92.8	7.2	+/-15%
CCV0214R-V4	100	92.4	7.6	+/-15%
CCV0214R-V5	100	93.7	6.3	+/-15%



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0209W1					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	2-9-22	2-9-22	
n-Hexane	ND	1.0	EPA 8260D	2-9-22	2-9-22	
Benzene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-9-22	2-9-22	
Toluene	ND	1.0	EPA 8260D	2-9-22	2-9-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-9-22	2-9-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-9-22	2-9-22	
o-Xylene	ND	0.20	EPA 8260D	2-9-22	2-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	75-127				
<i>Toluene-d8</i>	100	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
SPIKE BLANK					
Laboratory ID:	SB0209W1				
1,1-Dichloroethene	10.1	10.0	101	78-125	
Benzene	10.2	10.0	102	80-119	
Trichloroethene	10.6	10.0	106	80-121	
Toluene	10.2	10.0	102	80-117	
Chlorobenzene	10.7	10.0	107	80-117	
<i>Surrogate:</i>					
<i>Dibromofluoromethane</i>			94	75-127	
<i>Toluene-d8</i>			99	80-127	
<i>4-Bromofluorobenzene</i>			100	78-125	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0210WM1					
Arsenic	ND	3.3	EPA 200.8	2-10-22	2-10-22	
Cadmium	ND	4.4	EPA 200.8	2-10-22	2-10-22	
Chromium	ND	11	EPA 200.8	2-10-22	2-10-22	
Lead	ND	1.1	EPA 200.8	2-10-22	2-10-22	

Laboratory ID:	MB0211W1					
Mercury	ND	0.025	EPA 7470A	2-11-22	2-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-092-01							
	ORIG	DUP						
Arsenic	4.60	4.38	NA	NA	NA	NA	5	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	02-068-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	02-092-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	126	128	111	111	4.60	110	111	75-125	1	20
Cadmium	112	113	111	111	ND	101	102	75-125	1	20
Chromium	105	102	111	111	ND	95	92	75-125	3	20
Lead	104	104	111	111	ND	93	94	75-125	1	20

Laboratory ID:	02-068-02									
Mercury	6.13	6.05	6.25	6.25	ND	98	97	75-125	1	20



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV021022X	50.0	49.1	1.8	+/- 10%
Cadmium	ICV021022X	50.0	50.9	-1.8	+/- 10%
Chromium	ICV021022X	50.0	49.6	0.80	+/- 10%
Lead	ICV021022X	50.0	50.3	-0.60	+/- 10%
Mercury	ICV021122I	2.50	2.61	-4.4	+/- 10%
Arsenic	CCV1021022X	40.0	40.5	-1.3	+/- 10%
Cadmium	CCV1021022X	40.0	40.8	-2.0	+/- 10%
Chromium	CCV1021022X	40.0	38.5	3.8	+/- 10%
Lead	CCV1021022X	40.0	40.3	-0.75	+/- 10%
Mercury	CCV1021122I	2.50	2.51	0	+/- 20%
Arsenic	CCV1021022X	20.0	20.7	-3.5	+/- 10%
Cadmium	CCV1021022X	20.0	20.6	-3.0	+/- 10%
Chromium	CCV1021022X	20.0	19.4	3.0	+/- 10%
Lead	CCV1021022X	20.0	20.2	-1.0	+/- 10%
Arsenic	CCV2021022X	40.0	39.4	1.5	+/- 10%
Cadmium	CCV2021022X	40.0	41.3	-3.2	+/- 10%
Chromium	CCV2021022X	40.0	36.6	8.5	+/- 10%
Lead	CCV2021022X	40.0	39.7	0.75	+/- 10%
Mercury	CCV2021122I	2.50	2.51	-0.40	+/- 20%
Arsenic	CCV2021022X	20.0	21.6	-8.0	+/- 10%
Cadmium	CCV2021022X	20.0	19.8	1.0	+/- 10%
Chromium	CCV2021022X	20.0	18.6	7.0	+/- 10%
Lead	CCV2021022X	20.0	20.1	-0.50	+/- 10%
Mercury	CCV3021122I	2.50	2.50	0	+/- 20%



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0209D1					
Manganese	ND	11	EPA 6010D		2-9-22	
Laboratory ID:	MB0209D1					
Arsenic	ND	3.0	EPA 200.8		2-9-22	
Cadmium	ND	4.0	EPA 200.8		2-9-22	
Chromium	ND	10	EPA 200.8		2-9-22	
Lead	ND	1.0	EPA 200.8		2-9-22	
Laboratory ID:	MB0211D1					
Mercury	ND	0.025	EPA 7470A		2-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	02-050-01									
	ORIG	DUP								
Manganese	259	259	NA	NA	NA	NA	0	20		
Laboratory ID:	02-092-02									
Arsenic	ND	ND	NA	NA	NA	NA	NA	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	02-068-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	02-050-01									
	MS	MSD	MS	MSD	MS	MSD				
Manganese	764	759	556	556	259	91	90	75-125	1	20
Laboratory ID:	02-092-02									
Arsenic	84.4	83.4	80.0	80.0	ND	106	104	75-125	1	20
Cadmium	79.0	78.2	80.0	80.0	ND	99	98	75-125	1	20
Chromium	80.6	79.4	80.0	80.0	ND	101	99	75-125	1	20
Lead	75.4	74.6	80.0	80.0	ND	94	93	75-125	1	20
Laboratory ID:	02-068-01									
Mercury	5.93	5.98	6.25	6.25	ND	95	96	75-125	1	20



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV020922X	50.0	51.5	-3.0	+/- 10%
Cadmium	ICV020922X	50.0	53.1	-6.2	+/- 10%
Chromium	ICV020922X	50.0	52.5	-5.0	+/- 10%
Lead	ICV020922X	50.0	53.1	-6.2	+/- 10%
Manganese	ICV020922B	1000	1020	-2.0	+/- 10%
Mercury	ICV021122I	2.50	2.61	-4.4	+/- 10%
Manganese	LLV020922B	10.0	10.7	-7.0	+/- 20%
Arsenic	CCV1020922X	40.0	39.5	1.3	+/- 10%
Cadmium	CCV1020922X	40.0	40.3	-0.75	+/- 10%
Chromium	CCV1020922X	40.0	39.9	0.25	+/- 10%
Lead	CCV1020922X	40.0	40.2	-0.50	+/- 10%
Manganese	CCV1020922B	1000	1000	0	+/- 10%
Mercury	CCV1021122I	2.50	2.51	0	+/- 20%
Arsenic	CCV1020922X	20.0	20.3	-1.5	+/- 10%
Cadmium	CCV1020922X	20.0	20.4	-2.0	+/- 10%
Chromium	CCV1020922X	20.0	20.1	-0.50	+/- 10%
Lead	CCV1020922X	20.0	20.4	-2.0	+/- 10%
Arsenic	CCV2020922X	40.0	40.0	0	+/- 10%
Cadmium	CCV2020922X	40.0	40.6	-1.5	+/- 10%
Chromium	CCV2020922X	40.0	40.1	-0.25	+/- 10%
Lead	CCV2020922X	40.0	39.9	0.25	+/- 10%
Manganese	CCV2020922B	1000	957	4.3	+/- 10%
Mercury	CCV2021122I	2.50	2.51	-0.40	+/- 20%
Arsenic	CCV2020922X	20.0	20.1	-0.50	+/- 10%
Cadmium	CCV2020922X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV2020922X	20.0	19.9	0.50	+/- 10%
Lead	CCV2020922X	20.0	20.3	-1.5	+/- 10%
Manganese	CCV3020922B	1000	954	4.6	+/- 10%
Mercury	CCV3021122I	2.50	2.50	0	+/- 20%
Manganese	CCV4020922B	1000	911	8.9	+/- 10%
Mercury	CCV4021122I	2.50	2.34	6.4	+/- 20%
Manganese	CCV5020922B	1000	941	5.9	+/- 10%
Mercury	CCV5021122I	2.50	2.49	0.40	+/- 20%
Manganese	CCV5020922B	1000	955	4.5	+/- 10%
Mercury	CCV6021122I	2.50	2.49	0.40	+/- 20%



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0214W1					
Total Alkalinity	ND	2.0	SM 2320B	2-14-22	2-14-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-007-01							
	ORIG	DUP						
Total Alkalinity	260	256	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0214W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB02016W1					
Methane	ND	0.55	RSK 175	2-16-22	2-16-22	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0216W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	40.8	42.1	44.2	44.2	92	95	75-125	3	25	



Date of Report: February 16, 2022
 Samples Submitted: February 8, 2022
 Laboratory Reference: 2202-092
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Methane	CCV0216DG-L1	500	480	4.0	+/- 15%
Methane	CCV0216DG-L2	500	481	3.7	+/- 15%





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

**RE: Quiet Cove- Post Interim Action
Work Order Number: 2202187**

February 15, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 2/8/2022 for the analyses presented in the following report.

***Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action
Work Order: 2202187

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2202187-001	MW-2A-020722	02/07/2022 4:40 PM	02/08/2022 11:18 AM
2202187-002	MW-3A-020722	02/07/2022 3:50 PM	02/08/2022 11:18 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

Lab ID: 2202187-001 **Collection Date:** 2/7/2022 4:40:00 PM
Client Sample ID: MW-2A-020722 **Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35319 Analyst: SLL

Nitrate (as N)	0.584	0.400	DH	mg/L	4	2/9/2022 4:59:00 PM
Nitrate (as N)	0.520	0.500	DQ*	mg/L	5	2/8/2022 8:58:00 PM
Sulfate	54.5	3.00	D	mg/L	5	2/11/2022 5:03:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.
* - Associated LCS is above acceptance criteria. Result may be high-biased.

Ferrous Iron by SM3500-Fe B

Batch ID: R73129 Analyst: SLL

Ferrous Iron	1.01	0.100		mg/L	1	2/8/2022 1:12:23 PM
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Lab ID: 2202187-002

Collection Date: 2/7/2022 3:50:00 PM

Client Sample ID: MW-3A-020722

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 35319 Analyst: SLL

Nitrate (as N)	1.30	0.400	DH	mg/L	4	2/9/2022 5:22:00 PM
Nitrate (as N)	1.02	0.500	DQ*	mg/L	5	2/8/2022 9:21:00 PM
Sulfate	33.5	3.00	D	mg/L	5	2/11/2022 5:26:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.
* - Associated LCS is above acceptance criteria. Result may be high-biased.

Ferrous Iron by SM3500-Fe B

Batch ID: R73129 Analyst: SLL

Ferrous Iron	0.595	0.100		mg/L	1	2/8/2022 1:12:23 PM
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Work Order: 2202187
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R73129	SampType: MBLK	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73129							
Client ID: MBLKW	Batch ID: R73129		Analysis Date: 2/8/2022	SeqNo: 1493372							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R73129	SampType: LCS	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73129							
Client ID: LCSW	Batch ID: R73129		Analysis Date: 2/8/2022	SeqNo: 1493373							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.447 0.100 0.4000 0 112 85 115

Sample ID: 2202187-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73129							
Client ID: MW-2A-020722	Batch ID: R73129		Analysis Date: 2/8/2022	SeqNo: 1493375							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 1.05 0.100 1.014 3.81 20

Sample ID: 2202187-001BMS	SampType: MS	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73129							
Client ID: MW-2A-020722	Batch ID: R73129		Analysis Date: 2/8/2022	SeqNo: 1493376							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 1.51 0.100 0.4000 1.014 125 70 130

Sample ID: 2202187-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73129							
Client ID: MW-2A-020722	Batch ID: R73129		Analysis Date: 2/8/2022	SeqNo: 1493377							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 1.60 0.100 0.4000 1.014 146 70 130 1.513 5.48 20 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Work Order: 2202187
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-35308	SampType: MBLK	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73197							
Client ID: MBLKW	Batch ID: 35308	Analysis Date: 2/8/2022	SeqNo: 1495249								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									

Sample ID: LCS-35308	SampType: LCS	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73197							
Client ID: LCSW	Batch ID: 35308	Analysis Date: 2/8/2022	SeqNo: 1495250								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	1.44	0.100	0.7500	0	193	90	110				S

NOTES:
S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

Sample ID: 2202183-003BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73197							
Client ID: BATCH	Batch ID: 35308	Analysis Date: 2/8/2022	SeqNo: 1495254								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.04	0.100						2.116	3.56	20	Q*

NOTES:
Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.
* - Associated LCS is above acceptance criteria. Result may be high-biased.

Sample ID: 2202183-003BMS	SampType: MS	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73197							
Client ID: BATCH	Batch ID: 35308	Analysis Date: 2/8/2022	SeqNo: 1495255								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.70	0.100	0.7500	2.116	78.1	80	120				ES

NOTES:
S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 2202187
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2202183-003BMSD	SampType: MSD	Units: mg/L	Prep Date: 2/8/2022	RunNo: 73197							
Client ID: BATCH	Batch ID: 35308		Analysis Date: 2/8/2022	SeqNo: 1495256							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	2.60	0.100	0.7500	2.116	64.1	80	120	2.702	3.96	20	ES
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NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID: LCS-35319	SampType: LCS	Units: mg/L	Prep Date: 2/9/2022	RunNo: 73204							
Client ID: LCSW	Batch ID: 35319		Analysis Date: 2/9/2022	SeqNo: 1495349							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.712	0.100	0.7500	0	94.9	90	110				
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Sample ID: MB-35319	SampType: MBLK	Units: mg/L	Prep Date: 2/9/2022	RunNo: 73204							
Client ID: MBLKW	Batch ID: 35319		Analysis Date: 2/9/2022	SeqNo: 1495351							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
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Sample ID: 2202183-003BDUP	SampType: DUP	Units: mg/L	Prep Date: 2/9/2022	RunNo: 73204							
Client ID: BATCH	Batch ID: 35319		Analysis Date: 2/9/2022	SeqNo: 1495359							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	2.50	0.100						2.491	0.560	20	EH
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Sample ID: 2202183-003BMS	SampType: MS	Units: mg/L	Prep Date: 2/9/2022	RunNo: 73204							
Client ID: BATCH	Batch ID: 35319		Analysis Date: 2/9/2022	SeqNo: 1495360							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	3.33	0.100	0.7500	2.491	112	80	120				EH
----------------	------	-------	--------	-------	-----	----	-----	--	--	--	----

Work Order: 2202187
CLIENT: OnSite Environmental Inc
Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2202183-003BMSD	SampType: MSD	Units: mg/L				Prep Date: 2/9/2022	RunNo: 73204				
Client ID: BATCH	Batch ID: 35319					Analysis Date: 2/9/2022	SeqNo: 1495361				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.35	0.100	0.7500	2.491	115	80	120	3.332	0.569	20	EH

Sample ID: LCS-35335	SampType: LCS	Units: mg/L				Prep Date: 2/10/2022	RunNo: 73290				
Client ID: LCSW	Batch ID: 35335					Analysis Date: 2/11/2022	SeqNo: 1497522				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.59	0.600	3.750	0	95.8	90	110				

Sample ID: MB-35335	SampType: MBLK	Units: mg/L				Prep Date: 2/10/2022	RunNo: 73290				
Client ID: MBLKW	Batch ID: 35335					Analysis Date: 2/11/2022	SeqNo: 1497526				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.600									

Sample ID: 2202183-003BDUP	SampType: DUP	Units: mg/L				Prep Date: 2/8/2022	RunNo: 73290				
Client ID: BATCH	Batch ID: 35308					Analysis Date: 2/11/2022	SeqNo: 1497534				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	2.62	0.100						2.612	0.153	20	EH

Sample ID: 2202183-003BMS	SampType: MS	Units: mg/L				Prep Date: 2/8/2022	RunNo: 73290				
Client ID: BATCH	Batch ID: 35308					Analysis Date: 2/11/2022	SeqNo: 1497536				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.47	0.100	0.7500	2.612	114	80	120				EH



Work Order: 2202187
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove- Post Interim Action

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2202183-003BMSD	SampType: MSD	Units: mg/L				Prep Date: 2/8/2022	RunNo: 73290				
Client ID: BATCH	Batch ID: 35308					Analysis Date: 2/11/2022	SeqNo: 1497538				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.45	0.100	0.7500	2.612	111	80	120	3.469	0.607	20	EH

Sample ID: 2202218-002ADUP	SampType: DUP	Units: mg/L				Prep Date: 2/10/2022	RunNo: 73290				
Client ID: BATCH	Batch ID: 35335					Analysis Date: 2/11/2022	SeqNo: 1497552				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	2.21	0.600						2.258	2.10	20	

Sample ID: 2202218-002AMS	SampType: MS	Units: mg/L				Prep Date: 2/10/2022	RunNo: 73290				
Client ID: BATCH	Batch ID: 35335					Analysis Date: 2/11/2022	SeqNo: 1497553				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	6.08	0.600	3.750	2.258	102	80	120				

Client Name: **ONSITE**

 Work Order Number: **2202187**

 Logged by: **Gabrielle Coeulle**

 Date Received: **2/8/2022 11:18:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	4.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Telephone: 425.883.3881

Company: GeoEngineers, Inc.

Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action

Project Manager: Brian Tracy

Field Leads: Neil Solomon

CHAIN OF CUSTODY

20082187

Turnaround Requested:

1 Day

2 Day

3 Day

X Standard

Requested Analyses	
Nitrate and Sulfate EPA 300.0***	
Ferrous Iron SM 3500B ***	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.				
	MW-2A-020722	2.7.22	1645	Water	2	X	X		
	MW-3A-020722	2.7.22	1550	Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		
				Water	2	X	X		

Relinquished by: [Signature] Date: 2/10/22

Received by: [Signature] Date: 2/10/22

Firm: GeoEngineers Time: 11:18 Firm: FAT

Comments:
 * - BTEX, EDB, EDC, MTBE, n-hexane
 ** - field filtered
 *** - sent directly to Fremont Analytical

Relinquished by: _____ Date: _____

Received by: _____ Date: _____

Firm: _____ Time: _____ Firm: _____



14648 NE 95th Street, Redmond, WA 98052
 Telephone: 425.883.3881

Company: GeoEngineers, Inc.
 Project No.: 05147-024-11

Project Name: Quiet Cove - Post Interim Action
 Project Manager: Brian Tracy

Field Leads: Neil Solomon

CHAIN OF CUSTODY

Turnaround Requested:

1 Day
 2 Day
 3 Day
 Standard

Laboratory No. 02-1992

Requested Analyses

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-Gx	NWTPH-Dx (with and without silica gel cleanup)	Volatiles EPA 8260D *	Total MTCA Metals EPA 200.8/7470A	Dissolved MTCA Metals EPA 200.8/7470A**	Nitrate and Sulfate EPA 300.0***	Dissolved Methane RSK 175	Dissolved Manganese EPA 6010D**	Ferrous Iron SM 3500B ***	Alkalinity
1	MW-2A-620722	2.7.22	1440	Water	12	X	X	X	X	X	X	X	X	X	X
2	MW-8-020722	2.7.22	1550	Water	12	X	X	X	X	X	X	X	X	X	X
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	
				Water	11	X	X	X	X	X	X	X	X	X	

Relinquished by [Signature] Date 2/18/22
 Received by WFB Date 2/18/22

Firm GeoEngineers Time 12:25
 Firm OSF Time 12:25

Relinquished by _____ Date _____
 Received by _____ Date _____

Firm _____ Time _____
 Firm _____ Time _____

Comments:
 * - BTEX, EDB, EDC, MTBE, n-hexane
 ** - field filtered
 *** - sent directly to Fremont Analytical
 (X) Added 2/16/22. DB (579)

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 05147-024-11

OnSite Project Number: 02-092

Initiated by: NB

Date Initiated: 2/8/22

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	Temperature: <u>1</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup <input type="radio"/> Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1 2 3 4
3.8 Was method 5035A used?	Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- Gasoline Range Organics NWTPH-Gx
- Diesel and Heavy Oil Range Organics NWTPH-Dx
- Volatiles Organics EPA 8260D
- Total Metals EPA 200.8/7470A
- Dissolved Metals EPA 200.8/7470A
- Dissolved Methane RSK 175
- Alkalinity SM 2320B

Gasoline Range Organics
NWTPH-Gx Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208014.D Vial: 14
 Acq On : 8 Feb 2022 18:18 Operator:
 Sample : 02-092-01f Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 18:34 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	7718756	35.849 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11761968	41.927 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	7311892	0.031 PPM
3) H GASOLINE #2	14.70	5824663	0.032 PPM
4) MTBE #2 (1-21-22)	6.56	9471	0.128 PPB
5) BENZENE #2	8.71	3478	N.D. PPB
7) TOLUENE #2	11.21	1675	N.D. PPB
8) ETHYLBENZENE #2	13.23	4778	0.152 PPB
9) m,p-XYLENE #2	13.63	179001	0.571 PPB
10) o-XYLENE #2	14.03	41640	0.178 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208014.D
Acq On : 8 Feb 2022 18:18
Sample : 02-092-01f
Misc :

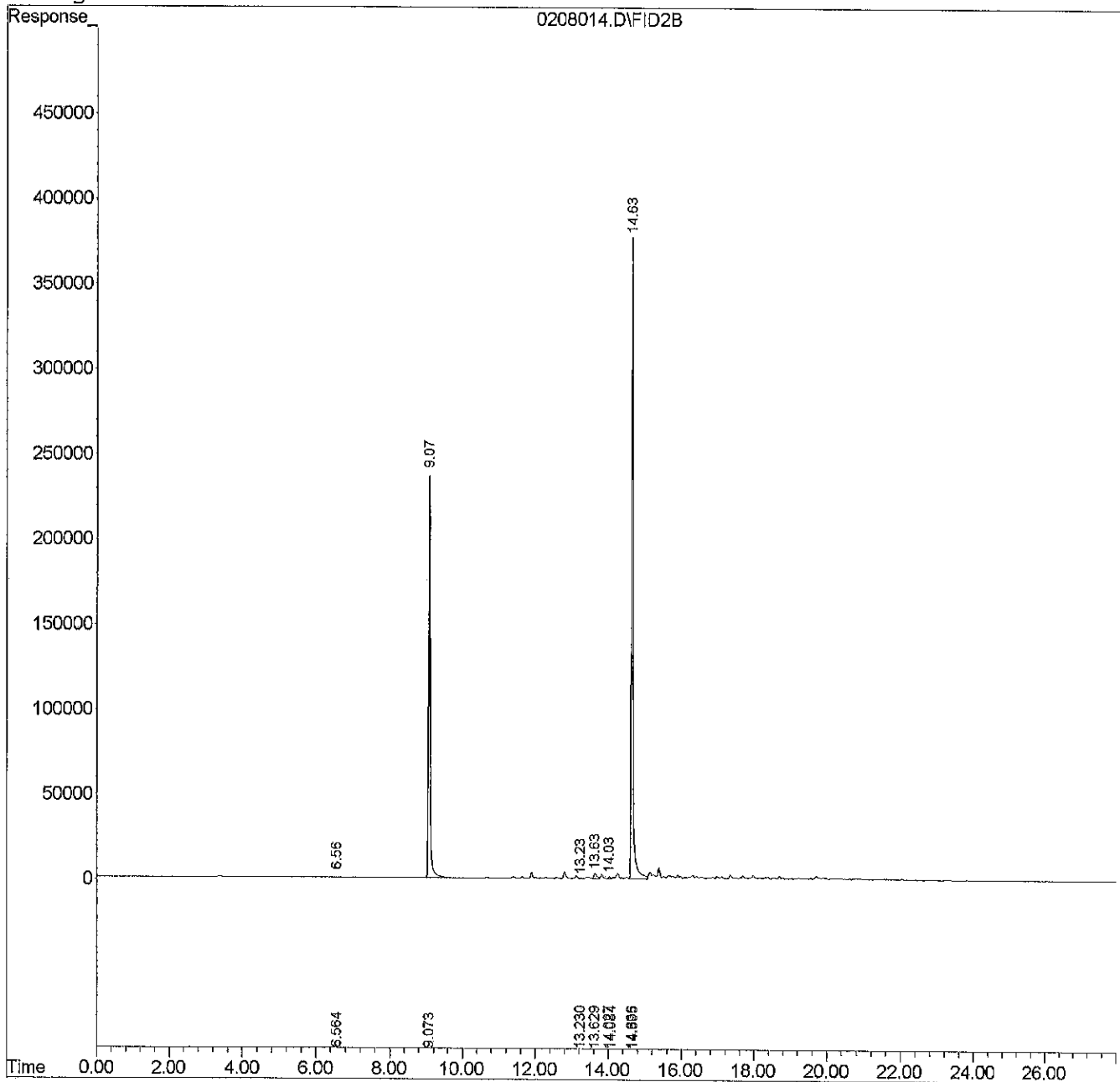
Vial: 14
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 18:34 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208015.D Vial: 15
 Acq On : 8 Feb 2022 18:48 Operator:
 Sample : 02-092-02f Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 19:10 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	7736024	35.929 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11692478	41.679 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	5920482	0.021 PPM
3) H GASOLINE #2	14.70	4114789	0.018 PPM
4) MTBE #2 (1-21-22)	6.55	10996	0.148 PPB
5) BENZENE #2	8.72	1766	N.D. PPB
7) TOLUENE #2	11.20	2559	N.D. PPB
8) ETHYLBENZENE #2	13.32	5868	0.156 PPB
9) m,p-XYLENE #2	13.64	82991	0.271 PPB
10) o-XYLENE #2	14.15	52244	0.217 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208015.D
Acq On : 8 Feb 2022 18:48
Sample : 02-092-02f
Misc :

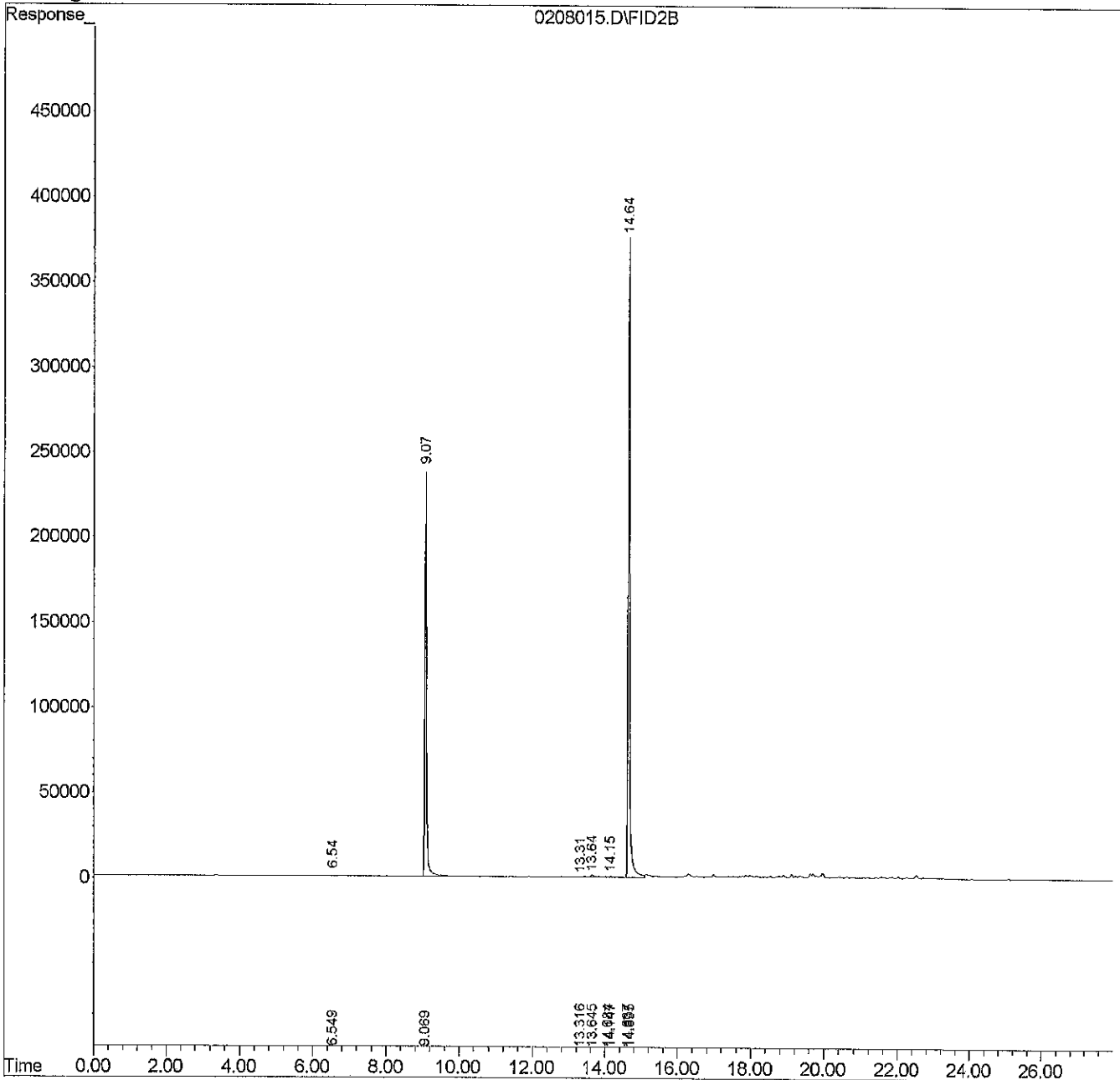
Vial: 15
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 19:10 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208003.D Vial: 3
 Acq On : 8 Feb 2022 11:15 Operator:
 Sample : MB0208W1 Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 11:29 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	7809431	36.271 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11680143	41.634 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	4514615	0.011 PPM
3) H GASOLINE #2	14.70	2932855	0.009 PPM
4) MTBE #2 (1-21-22)	0.00	0	N.D. PPB
5) BENZENE #2	8.72	6033	N.D. PPB
7) TOLUENE #2	11.35	179681	0.588 PPB
8) ETHYLBENZENE #2	13.25	5645	0.155 PPB
9) m,p-XYLENE #2	13.62	340787	1.077 PPB
10) o-XYLENE #2	14.13	174768	0.670 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208003.D
Acq On : 8 Feb 2022 11:15
Sample : MB0208W1
Misc :

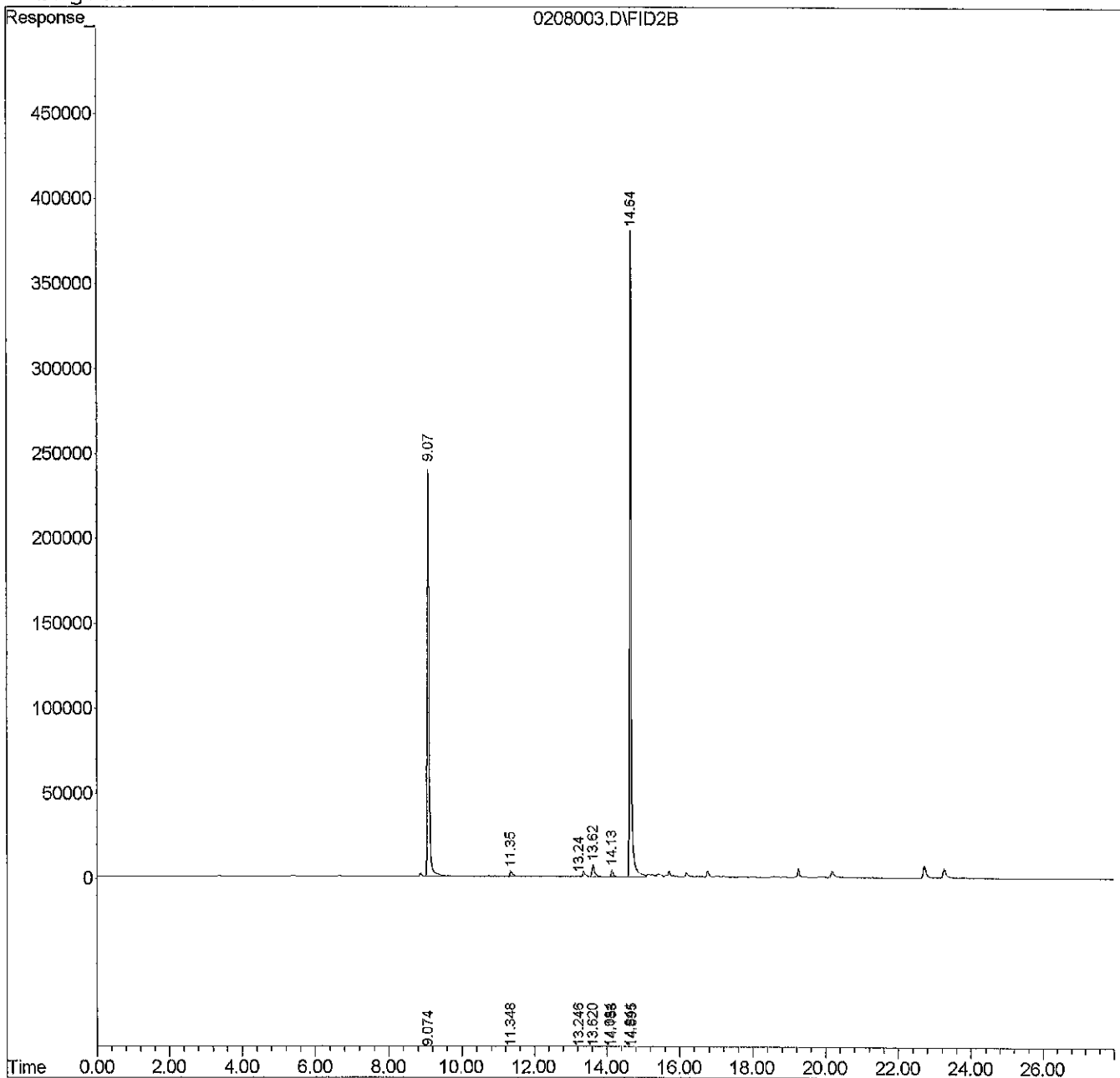
Vial: 3
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 11:29 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208004.D Vial: 4
 Acq On : 8 Feb 2022 11:45 Operator:
 Sample : 02-068-01k Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 12:11 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7796986	36.213 PPB
11) S BROMOFLUOROBENZENE #2	14.64	11646039	41.512 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	2475139	N.D. PPM
3) H GASOLINE #2	14.70	1819524	N.D. PPM
4) MTBE #2 (1-21-22)	6.55	14438	0.195 PPB
5) BENZENE #2	8.73	4153	N.D. PPB
7) TOLUENE #2	0.00	0	N.D. PPB ^{all}
8) ETHYLBENZENE #2	13.25	4199	0.150 PPB ₂₋₁₀
9) m,p-XYLENE #2	13.63	191944	0.612 PPB
10) o-XYLENE #2	14.15	74825	0.300 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208004.D
Acq On : 8 Feb 2022 11:45
Sample : 02-068-01k
Misc :

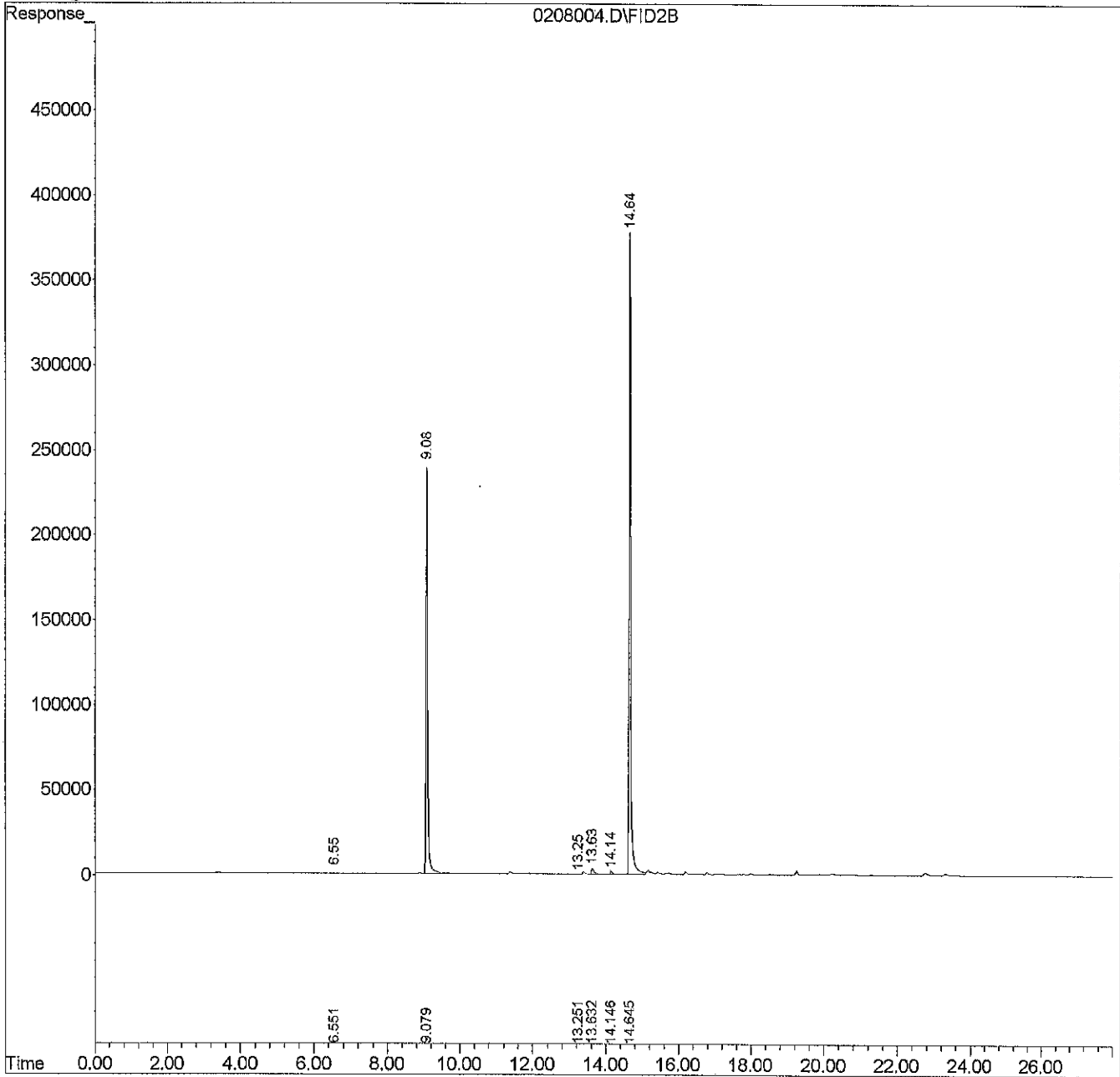
Vial: 4
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 12:11 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220208\0208005.D          Vial: 5
Acq On   : 8 Feb 2022 12:30                            Operator:
Sample   : 02-068-01k DUP                               Inst  : Hope
Misc     :                                               Multiplr: 1.00
                                           Sample Amount: 0.00

IntFile  : EVENTS1.E
    
```

Quant Time: Feb 8 12:47 2022 Quant Results File: 211025G.RES

```

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Tue Feb 01 09:42:14 2022
Response via : Initial Calibration
DataAcq Meth : 211025G.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.08	7771081	36.092 PPB
11) S BROMOFLUOROBENZENE #2	14.65	11629444	41.453 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	2306191	N.D. PPM
3) H GASOLINE #2	14.70	1540459	N.D. PPM
4) MTBE #2 (1-21-22)	6.52	16474	0.222 PPB
5) BENZENE #2	8.74	2995	N.D. PPB
7) TOLUENE #2	11.17	9145	0.011 PPB
8) ETHYLBENZENE #2	13.26	3324	0.147 PPB
9) m,p-XYLENE #2	13.64	128402	0.413 PPB
10) o-XYLENE #2	14.16	48391	0.203 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208005.D
Acq On : 8 Feb 2022 12:30
Sample : 02-068-01k DUP
Misc :

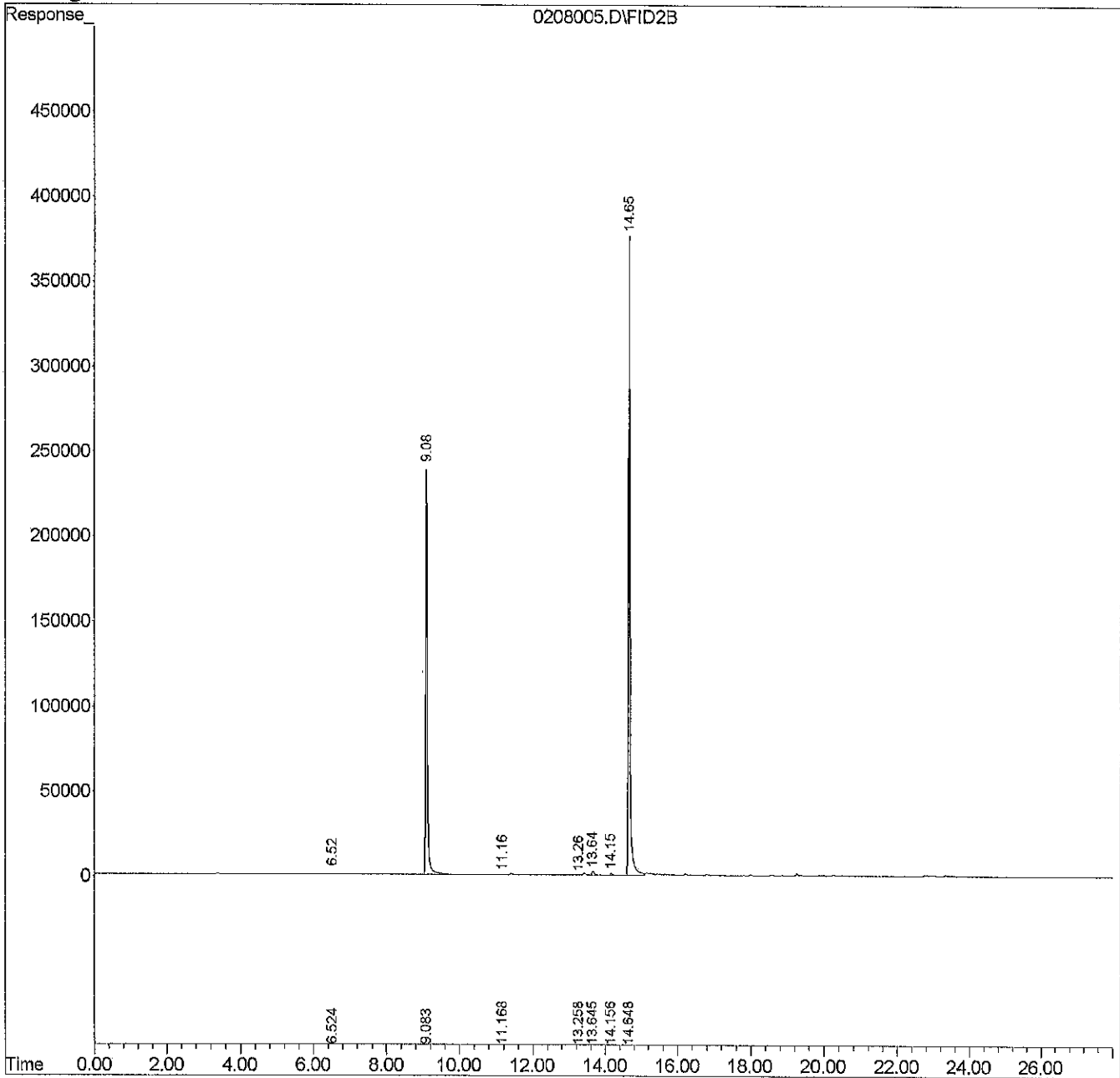
Vial: 5
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 12:47 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208001.D Vial: 1
 Acq On : 8 Feb 2022 9:59 Operator:
 Sample : CCVH0208G-1 Inst : Hope
 Misc : V2-064-09 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 8 10:17 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.07	8045567	37.368 PPB
11) S BROMOFLUOROBENZENE #2	14.64	13545469	48.315 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	363067866	2.482 PPM
3) H GASOLINE #2	14.70	314750679	2.510 PPM
4) MTBE #2 (1-21-22)	6.55	1459459	19.707 PPB
5) BENZENE #2	8.83	6313233	20.577 PPB
7) TOLUENE #2	11.29	64664083	218.642 PPB
8) ETHYLBENZENE #2	13.32	16680342	61.573 PPB
9) m,p-XYLENE #2	13.57	69472914	217.189 PPB
10) o-XYLENE #2	14.10	27327122	101.075 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208001.D
Acq On : 8 Feb 2022 9:59
Sample : CCVH0208G-1
Misc : V2-064-09

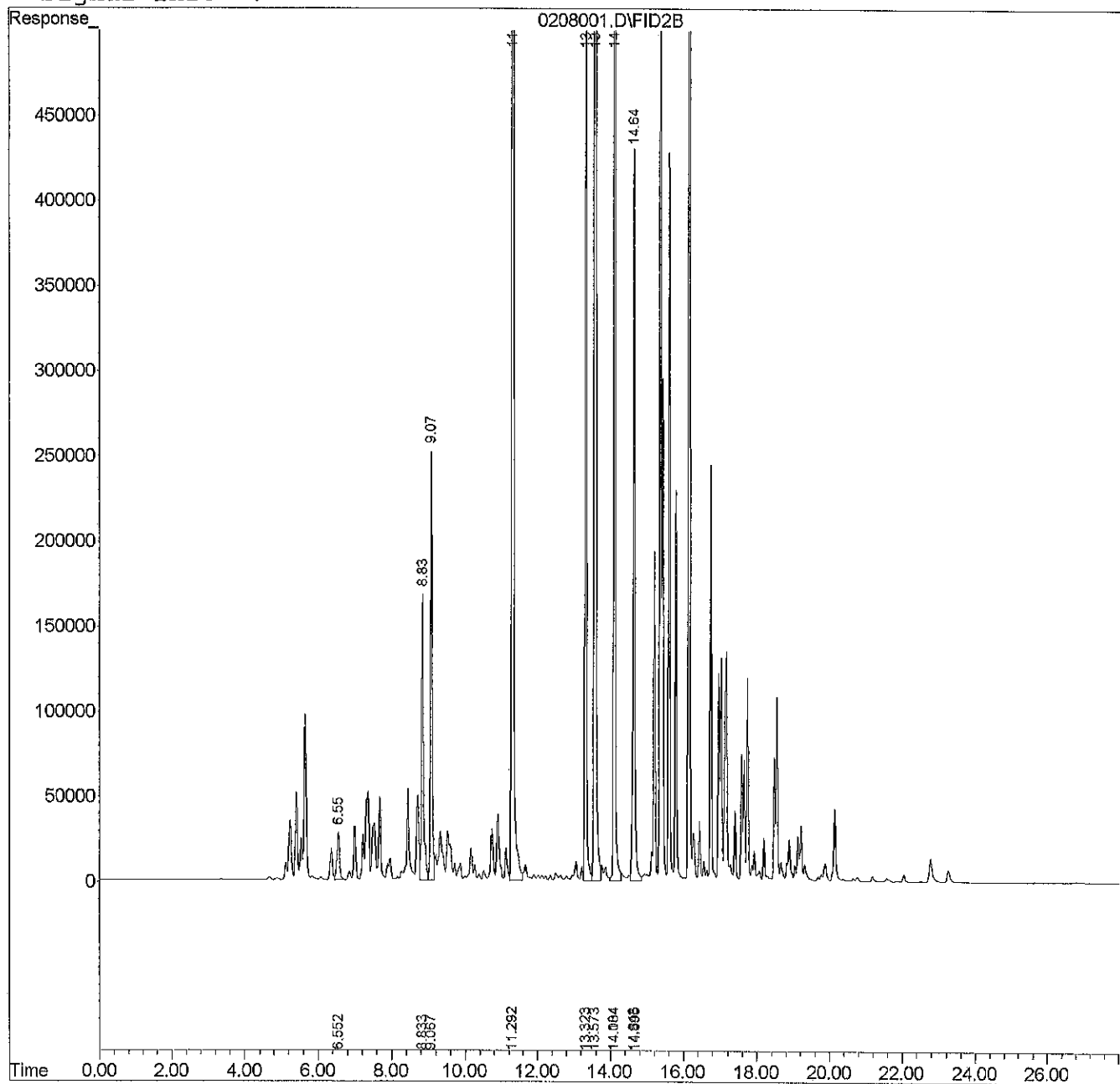
Vial: 1
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 8 10:17 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208023.D Vial: 23
 Acq On : 9 Feb 2022 13:25 Operator:
 Sample : CCVH0208G-2 Inst : Hope
 Misc : V2-064-09 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Feb 9 13:51 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Tue Feb 01 09:42:14 2022
 Response via : Initial Calibration
 DataAcq Meth : 211025G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2	9.09	7902356	36.703 PPB
11) S BROMOFLUOROBENZENE #2	14.65	13294019	47.414 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.08	343932898	2.350 PPM
3) H GASOLINE #2	14.70	300102395	2.393 PPM
4) MTBE #2 (1-21-22)	6.57	1341086	18.109 PPB
5) BENZENE #2	8.85	5960736	19.426 PPB
7) TOLUENE #2	11.31	63585876	214.996 PPB
8) ETHYLBENZENE #2	13.33	16052054	59.259 PPB
9) m,p-XYLENE #2	13.58	67927411	212.358 PPB
10) o-XYLENE #2	14.11	26652150	98.579 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220208\0208023.D
Acq On : 9 Feb 2022 13:25
Sample : CCVH0208G-2
Misc : V2-064-09

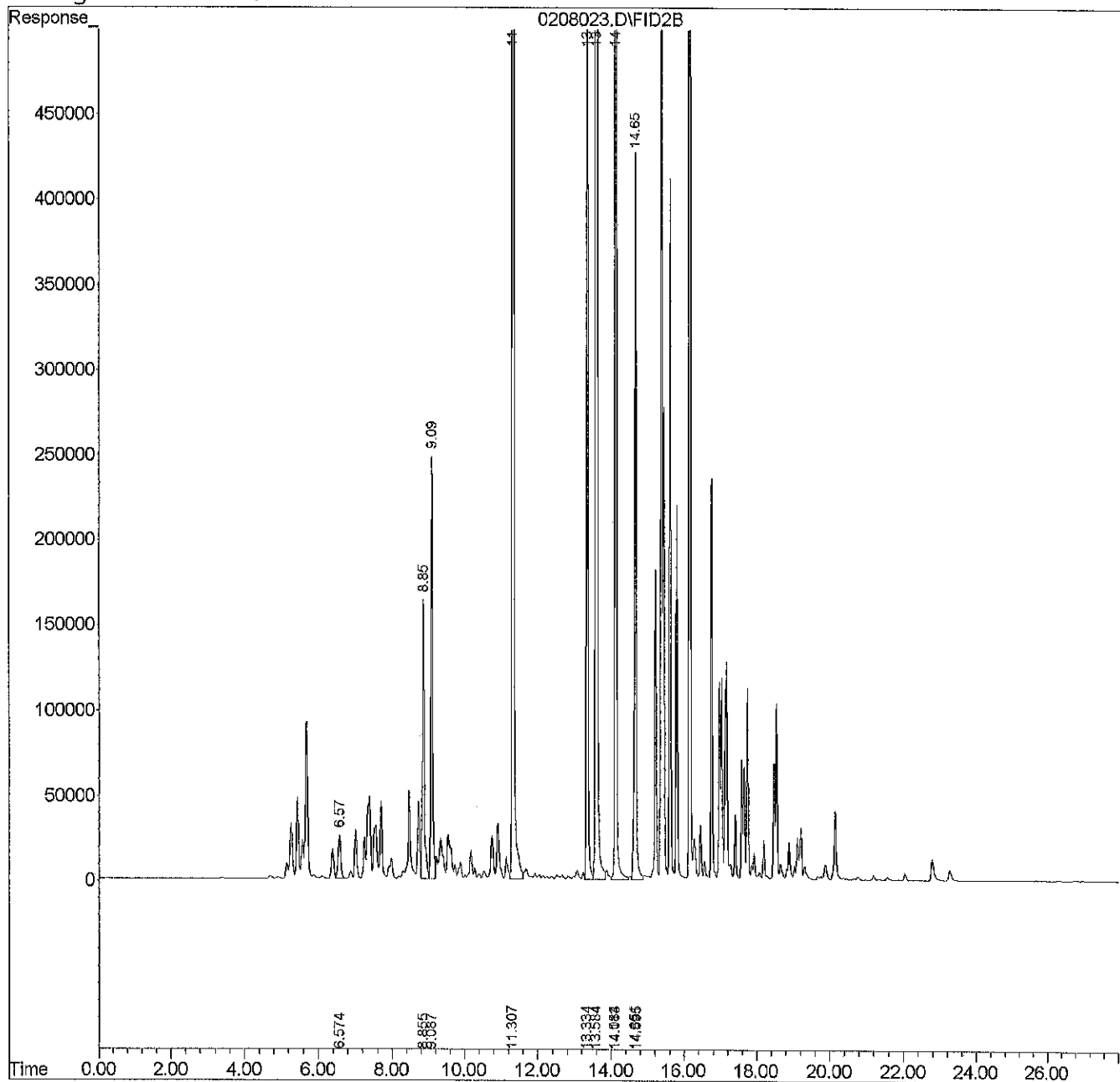
Vial: 23
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Feb 9 13:51 2022 Quant Results File: 211025G.RES

Quant Method : E:\ARCHON\METHODS\211025G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Tue Feb 01 09:42:14 2022
Response via : Multiple Level Calibration
DataAcq Meth : 211025G.M

Volume Inj. :
Signal Phase :
Signal Info :



Diesel and Heavy Oil Range Organics
NWTPH-Dx Data

Data Path : X:\DIESELS\Vigo\Data\V220211\
 Data File : 0211-V13.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 16:21
 Operator : JP
 Sample : 02-092-01
 Misc : Sample
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 16:57:48 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.679	116146638	39.851 PPM
Spiked Amount	50.000	Recovery =	79.70%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	8765316	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	54163342	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	65052953	29.593 PPM
6) H Oil (02-09-22)	22.000	61228044	28.597 PPM
7) H Oil Acid Clean (05-2...	22.000	61228044	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	57765880	27.013 PPM
9) H Oil Combo (02-09-22)	22.000	51774449	23.285 PPM
10) H Oil Acid Clean Combo ...	22.000	51774449	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	64155945	29.453 PPM
12) H HAWAII 8015M Oil (02...	22.000	44800058	19.823 PPM
13) H Mineral Oil (02-09-22)	16.000	60008160	26.233 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	65052953	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	57765880	NoCal PPM
16) H Hydraulic Oil	16.000	84431860	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	46316252	21.192 PPM
18) H Oil Acid Clean MO Com...	22.000	45547802	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	45547802	20.026 PPM

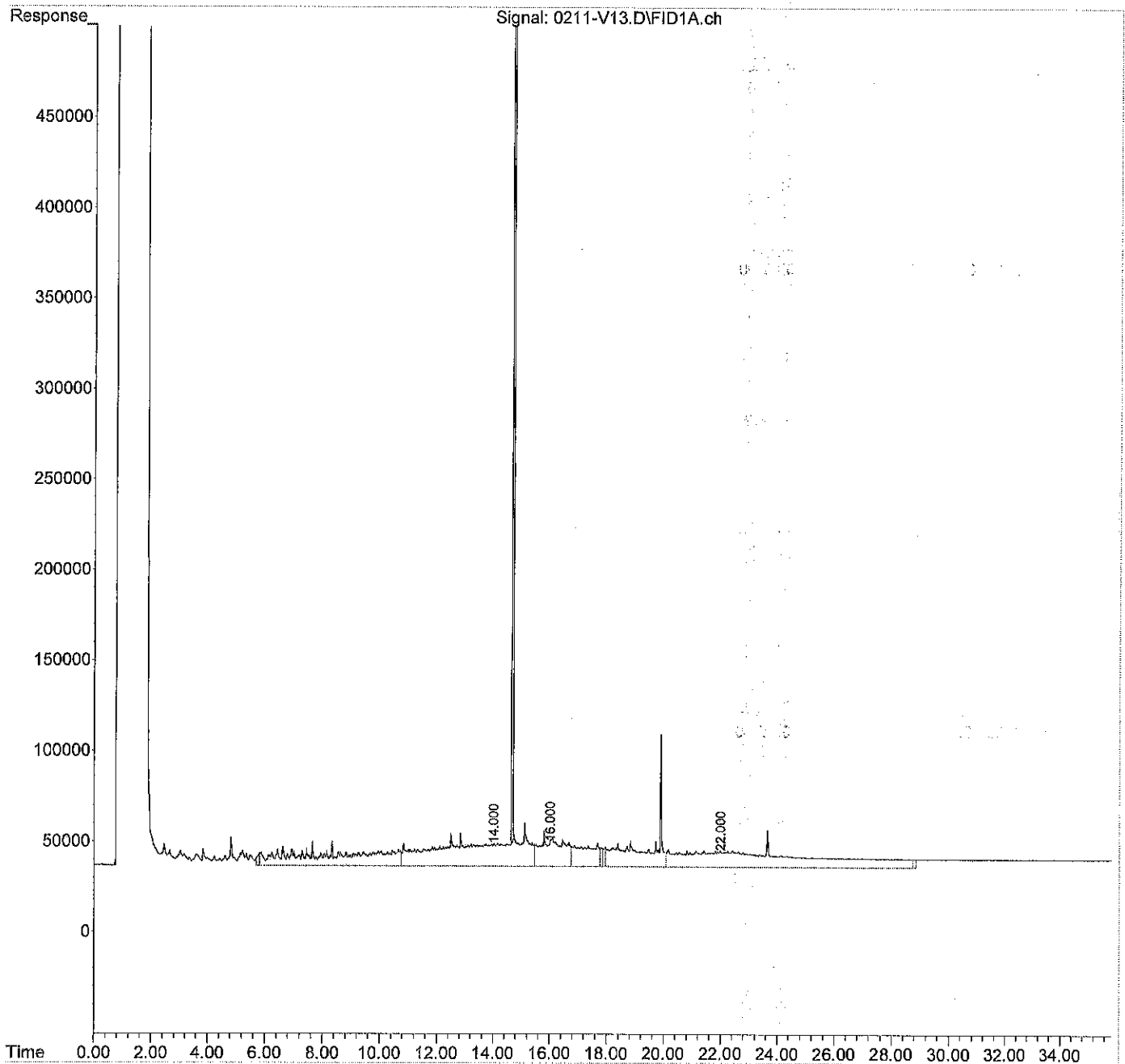
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211\
Data File : 0211-V13.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 16:21
Operator : JP
Sample : 02-092-01
Misc : Sample
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 16:57:48 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220214.SEC\
 Data File : 0214-V72.D
 Signal(s) : FID2B.ch
 Acq On : 14 Feb 2022 22:47
 Operator : JP
 Sample : 02-092-01 RECON ACU
 Misc : RearSamp
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 14 23:23:47 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.617	127215855	51.221 PPM
Spiked Amount	50.000	Recovery	= 102.44%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	27761617	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	39094551	5.596 PPM
5) H Diesel Fuel #2 (05-1...	14.000	30498804	10.041 PPM
6) H Oil (05-19-21)	22.000	26767704	1.707 PPM
7) H Oil Acid Clean (05-21...	22.000	26767704	3.338 PPM
8) H Diesel Fuel #2 Combo ...	14.000	29088199	10.008 PPM
9) H Oil Combo (05-19-21)	22.000	24984875	1.007 PPM
10) H Oil Acid Clean Combo ...	22.000	24984875	2.810 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	29971599	9.968 PPM
12) H HAWAII 8015M Oil (05-...	22.000	23448653	0.521 PPM
13) H Mineral Oil (05-19-21)	16.000	16192579	5.521 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	30498804	8.887 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	29088199	9.029 PPM
16) H Hydraulic Oil (03-19...	14.000	20201058	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	12514623	5.438 PPM
18) H Oil Acid Clean MO Com...	22.000	23268787	2.401 PPM
19) H Oil MO Combo (05-19-21)	22.000	23268787	0.355 PPM
20) H JP-4 (03-24-21)	8.000	54537959	NoCal PPM
21) H JP-5 (03-25-21)	8.000	33491641	NoCal PPM
22) H JP-8 (03-26-21)	8.000	35886118	NoCal PPM

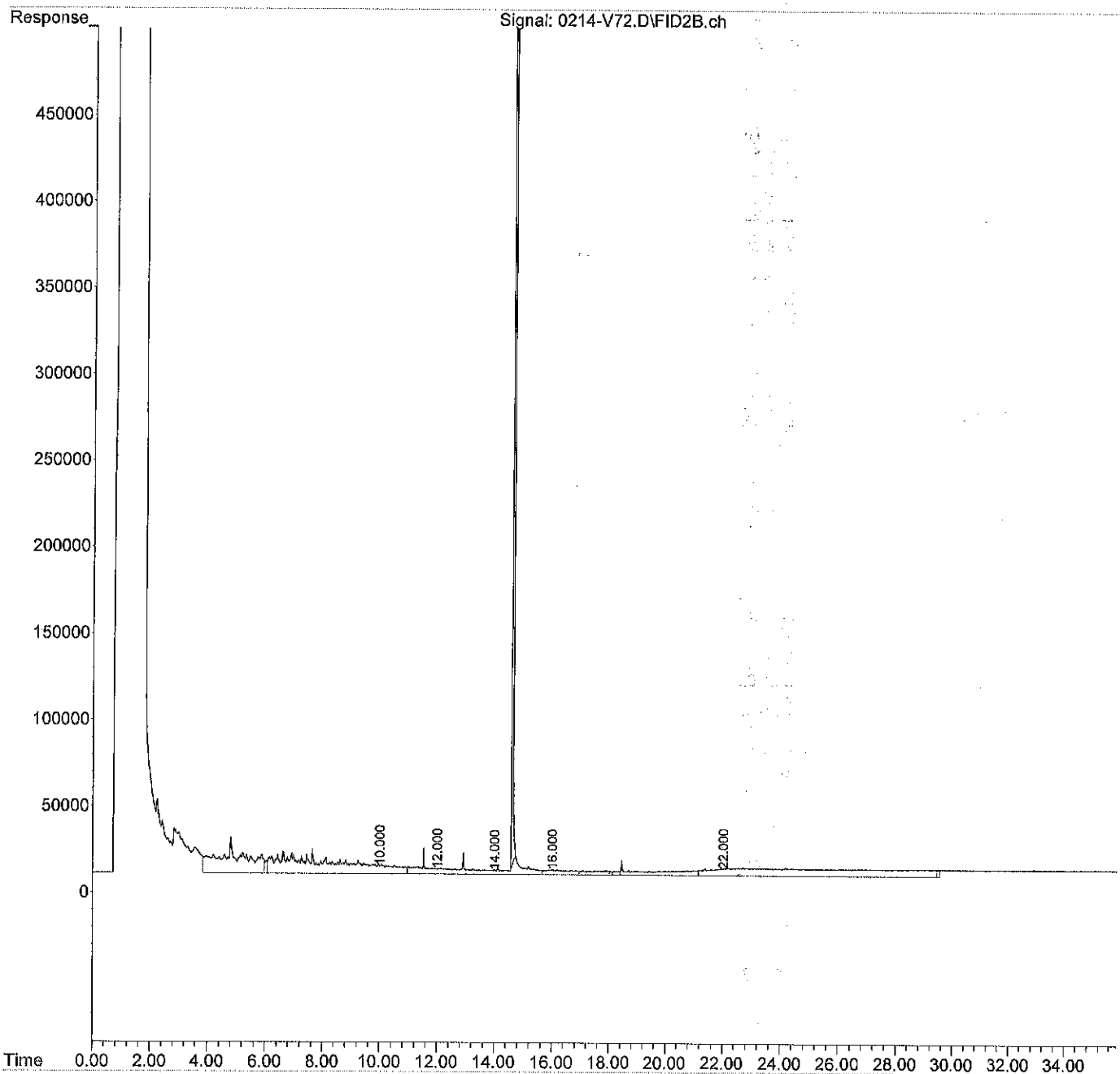
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220214.SEC\
Data File : 0214-V72.D
Signal(s) : FID2B.ch
Acq On : 14 Feb 2022 22:47
Operator : JP
Sample : 02-092-01 RECON ACU
Misc : RearSamp
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 14 23:23:47 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211\
 Data File : 0211-V14.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 17:01
 Operator : JP
 Sample : 02-092-02
 Misc : Sample
 ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 17:37:39 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-21-21)	14.679	125782227	43.145	PPM
Spiked Amount	50.000	Recovery	=	86.29%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	5401411	NoCal	PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	218348989	NoCal	PPM
5) H Diesel Fuel #2 (02-0...	14.000	260918551	113.200	PPM
6) H Oil (02-09-22)	22.000	123281057	64.589	PPM
7) H Oil Acid Clean (05-2...	22.000	123281057	NoCal	PPM
8) H Diesel Fuel #2 Combo ...	14.000	241469753	107.664	PPM
9) H Oil Combo (02-09-22)	22.000	97001884	49.916	PPM
10) H Oil Acid Clean Combo ...	22.000	97001884	NoCal	PPM
11) H HAWAII 8015M DF2 (02...	14.000	259122004	113.532	PPM
12) H HAWAII 8015M Oil (02...	22.000	78748611	40.535	PPM
13) H Mineral Oil (02-09-22)	16.000	223298075	92.030	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	260918551	NoCal	PPM
15) H Diesel Fuel #2 ACU CO...	14.000	241469753	NoCal	PPM
16) H Hydraulic Oil	16.000	264133935	NoCal	PPM
17) H Mineral Oil Combo (02...	16.000	190692949	81.567	PPM
18) H Oil Acid Clean MO Com...	22.000	80297424	NoCal	PPM
19) H Oil MO Combo (02-09-22)	22.000	80297424	41.061	PPM

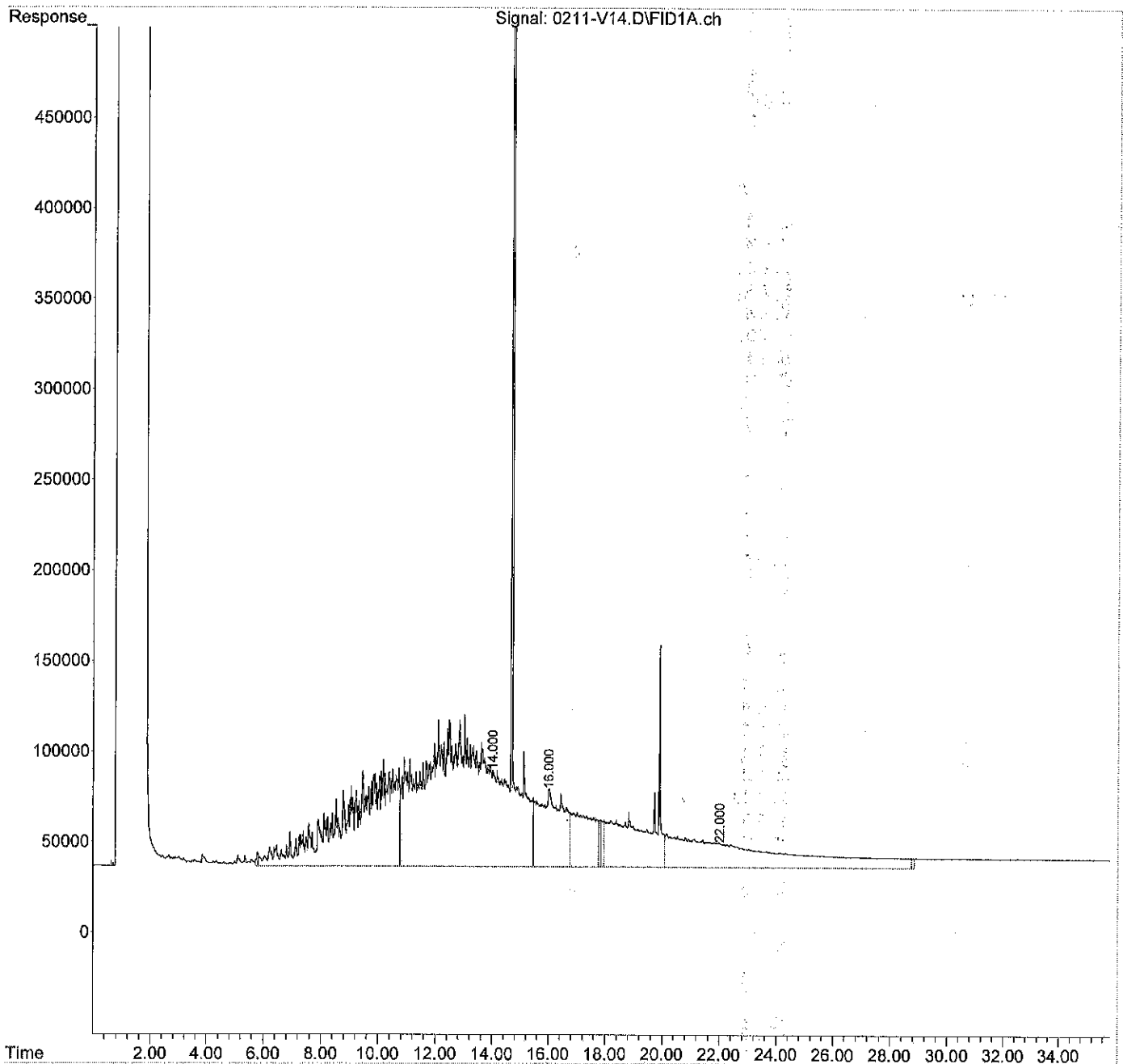
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211\
Data File : 0211-V14.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 17:01
Operator : JP
Sample : 02-092-02
Misc : Sample
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 17:37:39 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V79.D
 Signal(s) : FID2B.ch
 Acq On : 12 Feb 2022 3:00
 Operator : JP
 Sample : 02-092-02 ACU
 Misc : RearSamp
 ALS Vial : 79 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 12 03:36:44 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.619	133322087	53.665 PPM
Spiked Amount	50.000	Recovery	= 107.33%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	16495050	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	22972772	1.661 PPM
5) H Diesel Fuel #2 (05-1...	14.000	23472680	6.705 PPM
6) H Oil (05-19-21)	22.000	31189081	4.523 PPM
7) H Oil Acid Clean (05-21...	22.000	31189081	5.968 PPM
8) H Diesel Fuel #2 Combo ...	14.000	20624107	5.876 PPM
9) H Oil Combo (05-19-21)	22.000	27718990	2.775 PPM
10) H Oil Acid Clean Combo ...	22.000	27718990	4.461 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	23052060	6.657 PPM
12) H HAWAII 8015M Oil (05-...	22.000	24856674	1.463 PPM
13) H Mineral Oil (05-19-21)	16.000	20242972	7.294 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	23472680	5.989 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	20624107	5.434 PPM
16) H Hydraulic Oil (03-19...	14.000	24345388	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	14923590	6.519 PPM
18) H Oil Acid Clean MO Com...	22.000	24312191	3.059 PPM
19) H Oil MO Combo (05-19-21)	22.000	24312191	1.060 PPM
20) H JP-4 (03-24-21)	8.000	33626020	NoCal PPM
21) H JP-5 (03-25-21)	8.000	17636006	NoCal PPM
22) H JP-8 (03-26-21)	8.000	19693177	NoCal PPM

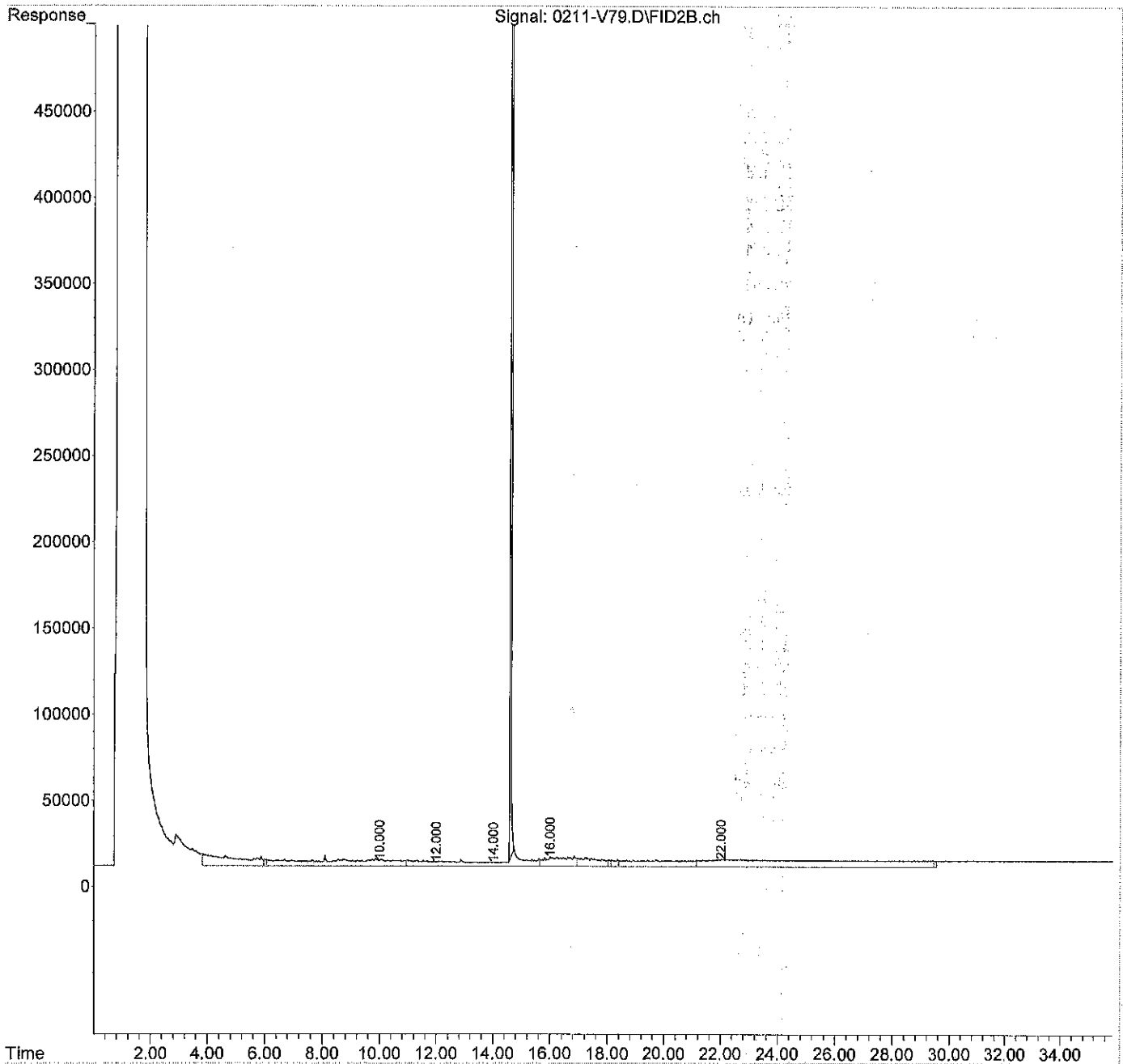
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V79.D
Signal(s) : FID2B.ch
Acq On : 12 Feb 2022 3:00
Operator : JP
Sample : 02-092-02 ACU
Misc : RearSamp
ALS Vial : 79 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 12 03:36:44 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V67.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 19:26
 Operator : JP
 Sample : MB0209W1
 Misc : RearSamp
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 20:03:29 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.622	147034151	59.153 PPM
Spiked Amount 50.000		Recovery =	118.31%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17801690	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	22460668	1.536 PPM
5) H Diesel Fuel #2 (05-1...	14.000	19942085	5.029 PPM
6) H Oil (05-19-21)	22.000	33502967	5.997 PPM
7) H Oil Acid Clean (05-21...	22.000	33502967	7.345 PPM
8) H Diesel Fuel #2 Combo ...	14.000	18371483	4.776 PPM
9) H Oil Combo (05-19-21)	22.000	31321487	5.105 PPM
10) H Oil Acid Clean Combo ...	22.000	31321487	6.637 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	19572342	4.991 PPM
12) H HAWAII 8015M Oil (05...	22.000	29585332	4.627 PPM
13) H Mineral Oil (05-19-21)	16.000	16194037	5.522 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	19942085	4.533 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	18371483	4.478 PPM
16) H Hydraulic Oil (03-19...	14.000	21115091	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	11524851	4.994 PPM
18) H Oil Acid Clean MO Com...	22.000	29359874	6.245 PPM
19) H Oil MO Combo (05-19-21)	22.000	29359874	4.472 PPM
20) H JP-4 (03-24-21)	8.000	34270542	NoCal PPM
21) H JP-5 (03-25-21)	8.000	17393643	NoCal PPM
22) H JP-8 (03-26-21)	8.000	19384003	NoCal PPM

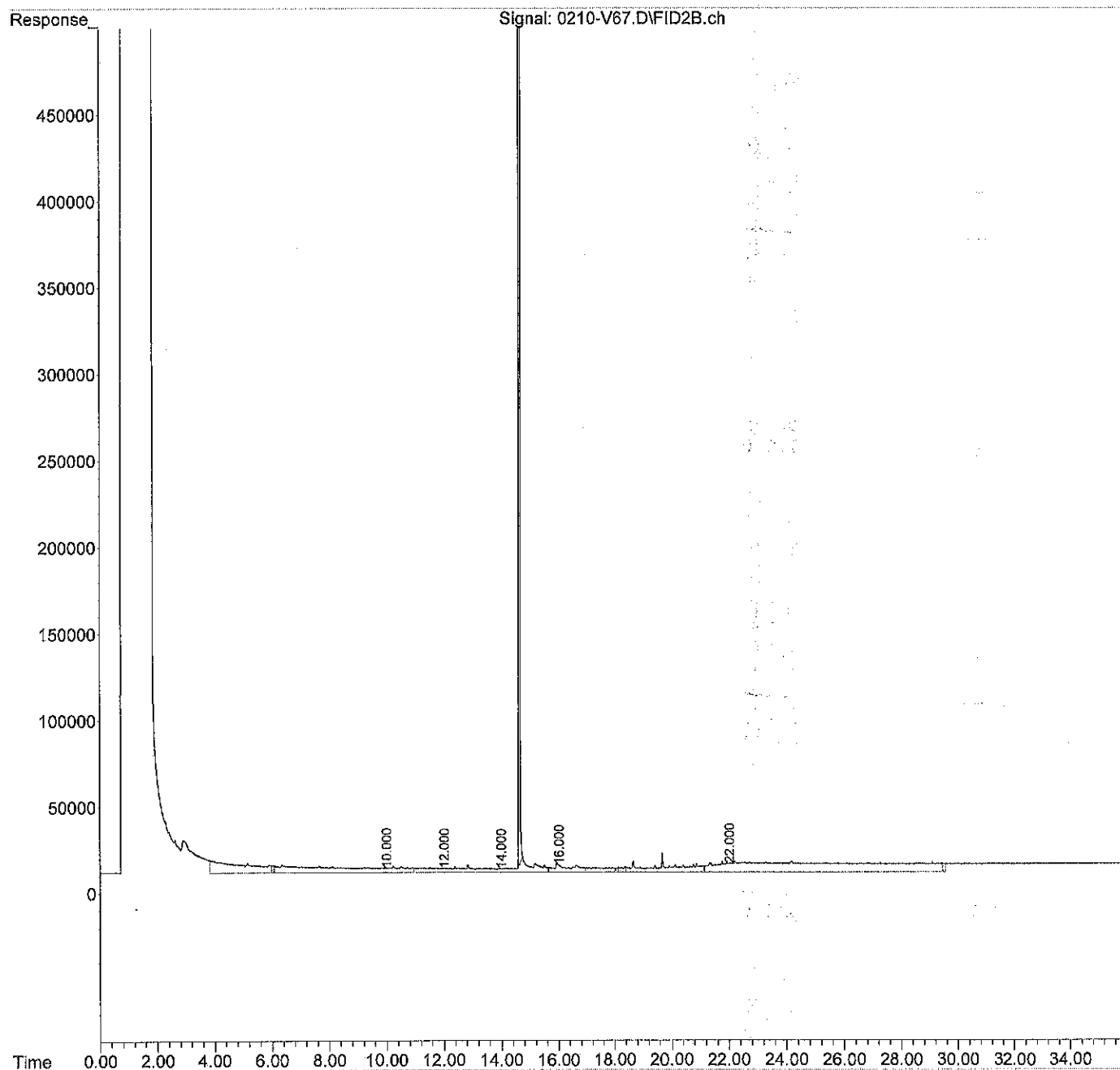
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V67.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 19:26
Operator : JP
Sample : MB0209W1
Misc : RearSamp
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 20:03:29 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V72.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 22:20
 Operator : JP
 Sample : MB0209W1 ACU
 Misc : RearSamp
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 22:57:32 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.621	156807078	63.064 PPM
Spiked Amount	50.000	Recovery =	126.13%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	15407923	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	15423635	N.D. PPM
5) H Diesel Fuel #2 (05-1...	14.000	15533111	2.935 PPM
6) H Oil (05-19-21)	22.000	28818092	3.013 PPM
7) H Oil Acid Clean (05-21...	22.000	28818092	4.558 PPM
8) H Diesel Fuel #2 Combo ...	14.000	13275670	2.289 PPM
9) H Oil Combo (05-19-21)	22.000	25741279	1.496 PPM
10) H Oil Acid Clean Combo ...	22.000	25741279	3.267 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	15196077	2.897 PPM
12) H HAWAII 8015M Oil (05-...	22.000	23414085	0.498 PPM
13) H Mineral Oil (05-19-21)	16.000	14737625	4.884 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	15533111	2.714 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	13275670	2.313 PPM
16) H Hydraulic Oil (03-19...	14.000	18411642	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	10666332	4.609 PPM
18) H Oil Acid Clean MO Com...	22.000	23056419	2.267 PPM
19) H Oil MO Combo (05-19-21)	22.000	23056419	0.211 PPM
20) H JP-4 (03-24-21)	8.000	27277410	NoCal PPM
21) H JP-5 (03-25-21)	8.000	11727751	NoCal PPM
22) H JP-8 (03-26-21)	8.000	12765914	NoCal PPM

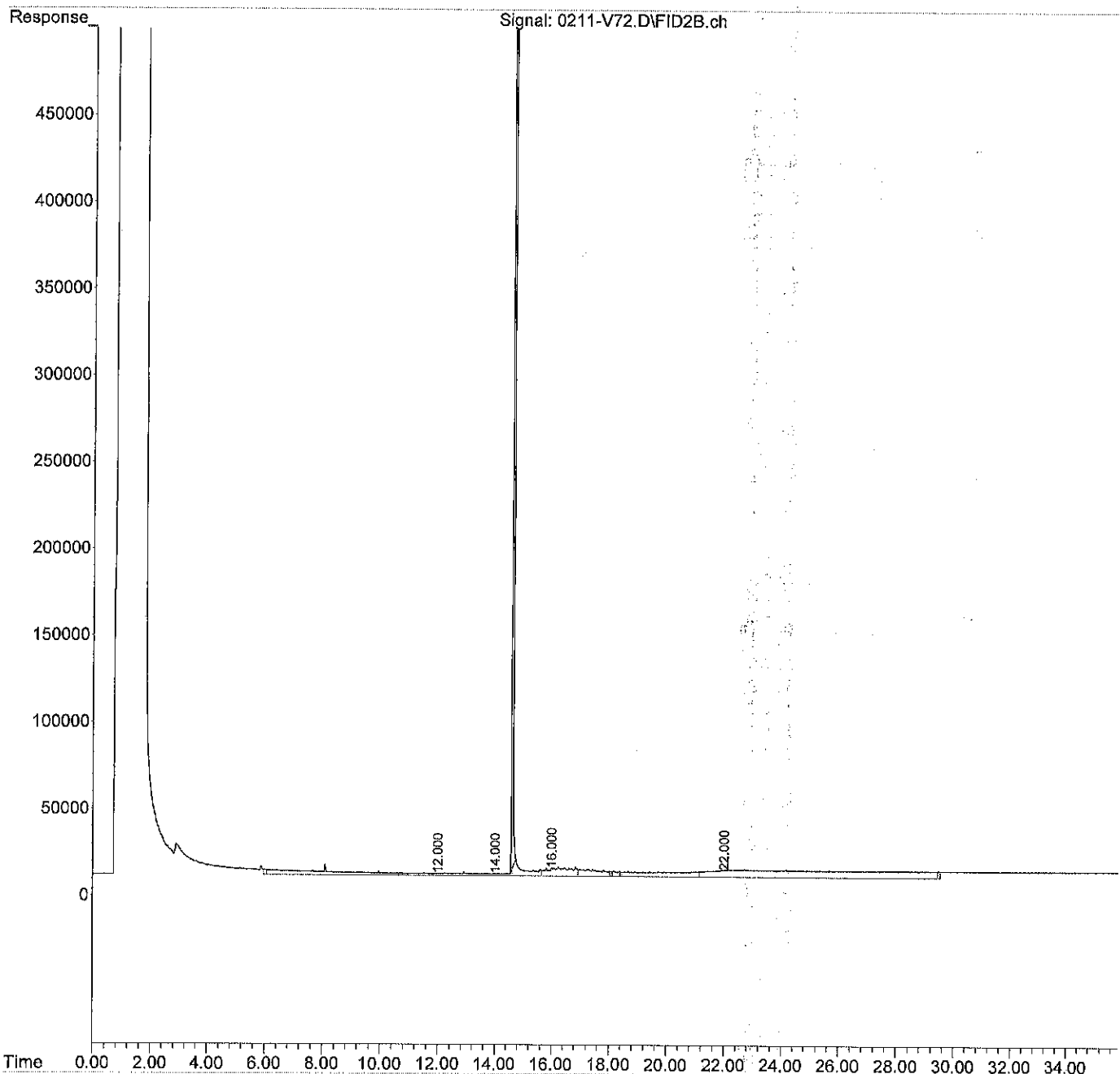
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V72.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 22:20
Operator : JP
Sample : MB0209W1 ACU
Misc : RearSamp
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 22:57:32 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V69.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 20:46
 Operator : JP
 Sample : SB0209W1.DUF
 Misc : RearSamp
 ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 21:23:25 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.618	125565169	50.561 PPM
Spiked Amount	50.000	Recovery =	101.12%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	31728843	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	199994030	44.861 PPM
5) H Diesel Fuel #2 (05-1...	14.000	203017346	91.958 PPM
6) H Oil (05-19-21)	22.000	44063575	12.724 PPM
7) H Oil Acid Clean (05-21...	22.000	44063575	13.628 PPM
8) H Diesel Fuel #2 Combo ...	14.000	198131235	92.531 PPM
9) H Oil Combo (05-19-21)	22.000	31757571	5.387 PPM
10) H Oil Acid Clean Combo ...	22.000	31757571	6.900 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	202177153	92.385 PPM
12) H HAWAII 8015M Oil (05...	22.000	26846974	2.795 PPM
13) H Mineral Oil (05-19-21)	16.000	139138749	59.323 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	203017346	80.047 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	198131235	80.824 PPM
16) H Hydraulic Oil (03-19...	14.000	146688151	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	134889500	60.342 PPM
18) H Oil Acid Clean MO Com...	22.000	26243526	4.278 PPM
19) H Oil MO Combo (05-19-21)	22.000	26243526	2.366 PPM
20) H JP-4 (03-24-21)	8.000	145220434	NoCal PPM
21) H JP-5 (03-25-21)	8.000	125096660	NoCal PPM
22) H JP-8 (03-26-21)	8.000	170644642	NoCal PPM

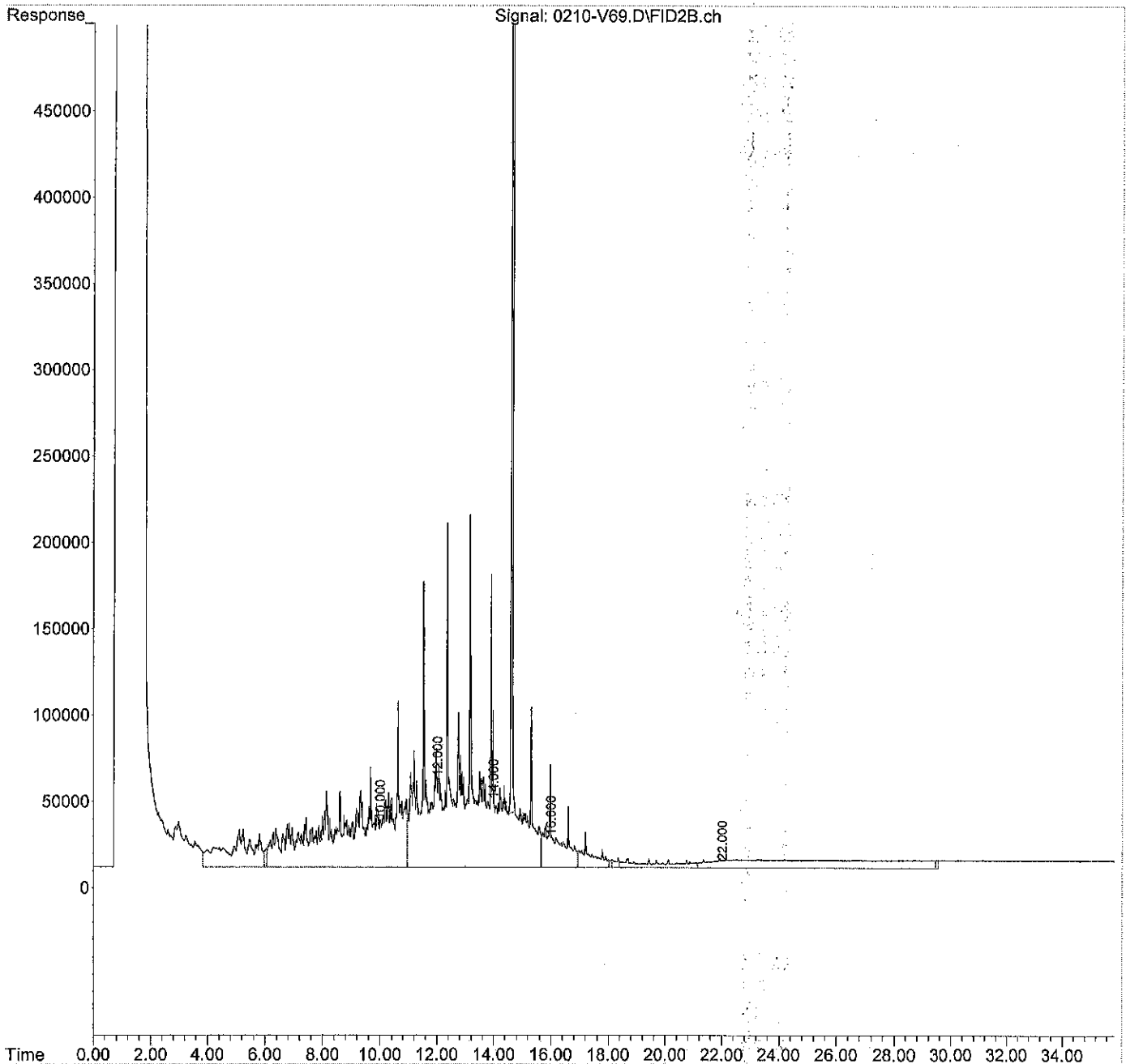
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V69.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 20:46
Operator : JP
Sample : SB0209W1 ~~DEP~~
Misc : RearSamp
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 21:23:25 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V68.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 20:06
 Operator : JP
 Sample : SB0209W1 *Dep*
 Misc : RearSamp
 ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 20:43:20 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	14.617	110856742	44.674	PPM
Spiked Amount	50.000	Recovery =	89.35%	
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	30662232	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	182981031	40.709	PPM
5) H Diesel Fuel #2 (05-1...	14.000	185125851	83.463	PPM
6) H Oil (05-19-21)	22.000	43587681	12.421	PPM
7) H Oil Acid Clean (05-21...	22.000	43587681	13.345	PPM
8) H Diesel Fuel #2 Combo ...	14.000	180593493	83.969	PPM
9) H Oil Combo (05-19-21)	22.000	32414356	5.812	PPM
10) H Oil Acid Clean Combo ...	22.000	32414356	7.297	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	184316447	83.837	PPM
12) H HAWAII 8015M Oil (05-...	22.000	27838320	3.458	PPM
13) H Mineral Oil (05-19-21)	16.000	126683693	53.872	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	185125851	72.667	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	180593493	73.376	PPM
16) H Hydraulic Oil (03-19...	14.000	134075199	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	122393898	54.736	PPM
18) H Oil Acid Clean MO Com...	22.000	27272511	4.928	PPM
19) H Oil MO Combo (05-19-21)	22.000	27272511	3.061	PPM
20) H JP-4 (03-24-21)	8.000	134941947	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	115155272	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	156193160	NoCal	PPM

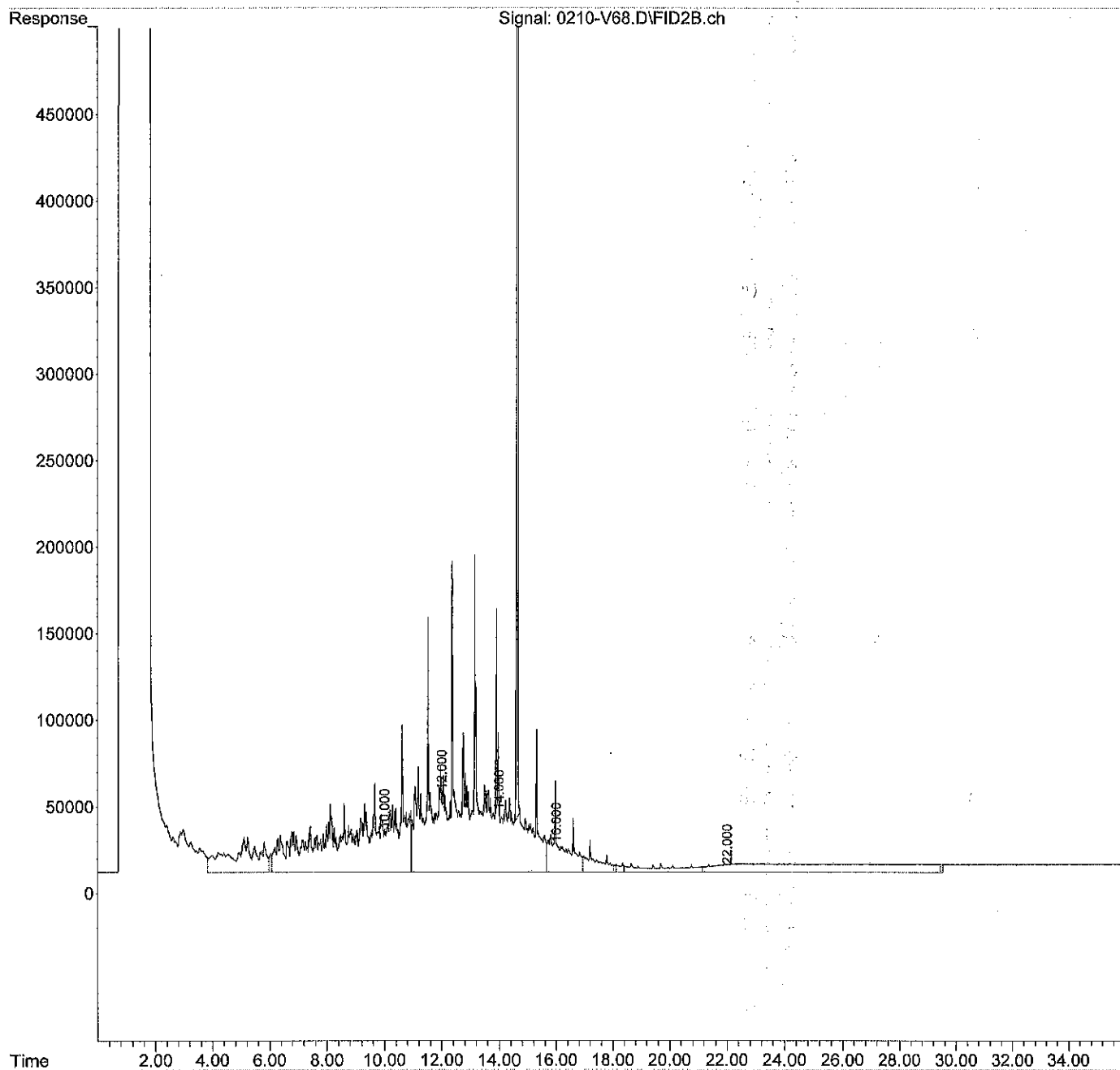
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V68.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 20:06
Operator : JP
Sample : SB0209W1 *Dup*
Misc : RearSamp
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 20:43:20 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V73.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 23:00
 Operator : JP
 Sample : SB0209W1 ACU
 Misc : RearSamp
 ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 23:37:15 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.618	136140955	54.793 PPM
Spiked Amount	50.000	Recovery	= 109.59%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	32637233	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	237968401	54.128 PPM
5) H Diesel Fuel #2 (05-1...	14.000	248837166	113.715 PPM
6) H Oil (05-19-21)	22.000	55813950	20.209 PPM
7) H Oil Acid Clean (05-21...	22.000	55813950	20.619 PPM
8) H Diesel Fuel #2 Combo ...	14.000	240415583	113.173 PPM
9) H Oil Combo (05-19-21)	22.000	38407129	9.688 PPM
10) H Oil Acid Clean Combo ...	22.000	38407129	10.916 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	247737473	114.190 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30213716	5.048 PPM
13) H Mineral Oil (05-19-21)	16.000	179073830	76.798 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	248837166	98.946 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	240415583	98.783 PPM
16) H Hydraulic Oil (03-19...	14.000	187925051	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	170745590	76.429 PPM
18) H Oil Acid Clean MO Com...	22.000	28772221	5.874 PPM
19) H Oil MO Combo (05-19-21)	22.000	28772221	4.075 PPM
20) H JP-4 (03-24-21)	8.000	165052218	NoCal PPM
21) H JP-5 (03-25-21)	8.000	145521912	NoCal PPM
22) H JP-8 (03-26-21)	8.000	201986803	NoCal PPM

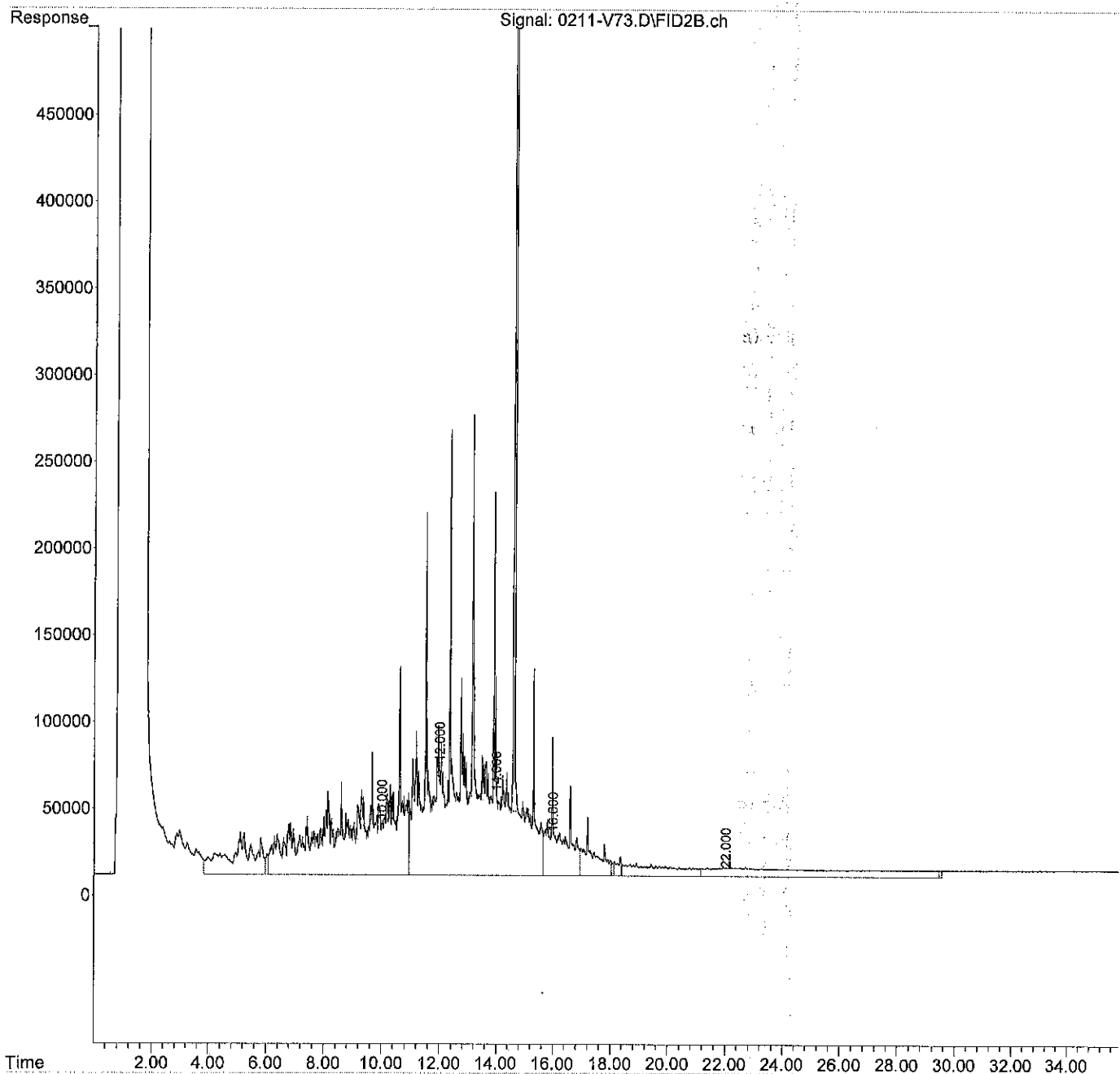
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V73.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 23:00
Operator : JP
Sample : SB0209W1 ACU
Misc : RearSamp
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 23:37:15 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V63.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 16:21
 Operator : JP
 Sample : SB0209W1 ACU *Up*
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 16:58:25 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.619	133903275	53.898 PPM
Spiked Amount	50.000	Recovery	= 107.80%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	31521074	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	231235394	52.485 PPM
5) H Diesel Fuel #2 (05-1...	14.000	243792710	111.320 PPM
6) H Oil (05-19-21)	22.000	57251485	21.125 PPM
7) H Oil Acid Clean (05-21...	22.000	57251485	21.474 PPM
8) H Diesel Fuel #2 Combo ...	14.000	235130467	110.593 PPM
9) H Oil Combo (05-19-21)	22.000	38972994	10.054 PPM
10) H Oil Acid Clean Combo ...	22.000	38972994	11.257 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	242715801	111.787 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30521508	5.254 PPM
13) H Mineral Oil (05-19-21)	16.000	175179956	75.094 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	243792710	96.866 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	235130467	96.539 PPM
16) H Hydraulic Oil (03-19...	14.000	184049006	NoCal PPM
17) H Mineral Oil Combo (05-...	16.000	167890855	75.149 PPM
18) H Oil Acid Clean MO Com...	22.000	29124503	6.097 PPM
19) H Oil MO Combo (05-19-21)	22.000	29124503	4.313 PPM
20) H JP-4 (03-24-21)	8.000	159750531	NoCal PPM
21) H JP-5 (03-25-21)	8.000	140898150	NoCal PPM
22) H JP-8 (03-26-21)	8.000	195483425	NoCal PPM

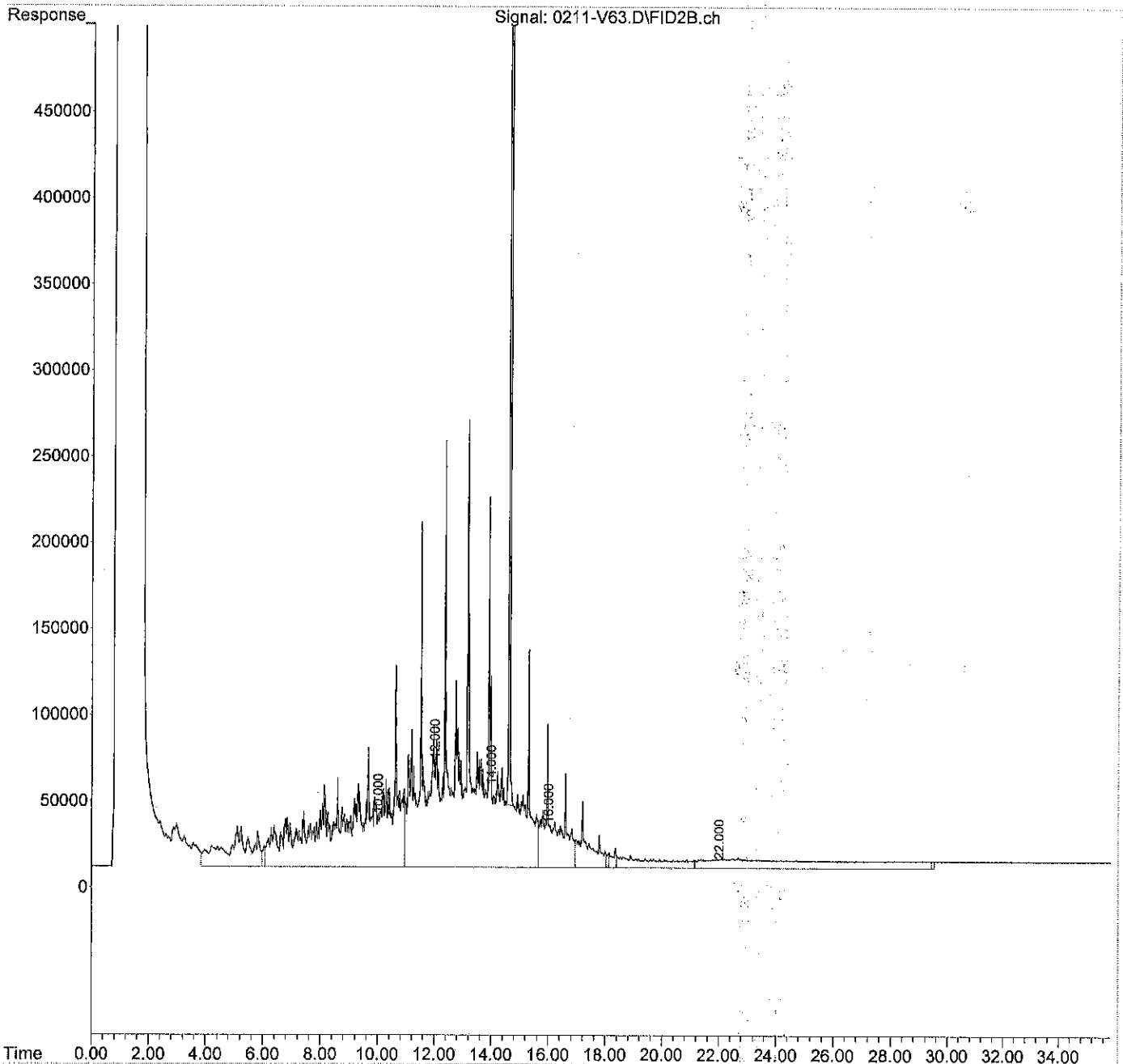
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V63.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 16:21
Operator : JP
Sample : SB0209W1 ACU *Vup*
Misc : RearSamp
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 16:58:25 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V60.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 14:46
 Operator : JP
 Sample : CCV0210R-V3
 Misc : RearSamp
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 15:23:28 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.614	1759163	1.012 PPM
Spiked Amount 50.000		Recovery =	2.02%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	36438467	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	217745309	49.193 PPM
5) H Diesel Fuel #2 (05-1...	14.000	218534896	99.327 PPM
6) H Oil (05-19-21)	22.000	101258251	49.157 PPM
7) H Oil Acid Clean (05-21...	22.000	101258251	47.655 PPM
8) H Diesel Fuel #2 Combo ...	14.000	212900219	99.741 PPM
9) H Oil Combo (05-19-21)	22.000	88905451	42.350 PPM
10) H Oil Acid Clean Combo ...	22.000	88905451	41.409 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	217521477	99.729 PPM
12) H HAWAII 8015M Oil (05-...	22.000	82885254	40.289 PPM
13) H Mineral Oil (05-19-21)	16.000	151594528	64.773 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	218534896	86.447 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	212900219	87.097 PPM
16) H Hydraulic Oil (03-19...	14.000	170960259	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	140304233	62.772 PPM
18) H Oil Acid Clean MO Com...	22.000	82416336	39.731 PPM
19) H Oil MO Combo (05-19-21)	22.000	82416336	40.335 PPM
20) H JP-4 (03-24-21)	8.000	161998680	NoCal PPM
21) H JP-5 (03-25-21)	8.000	141366506	NoCal PPM
22) H JP-8 (03-26-21)	8.000	188213415	NoCal PPM

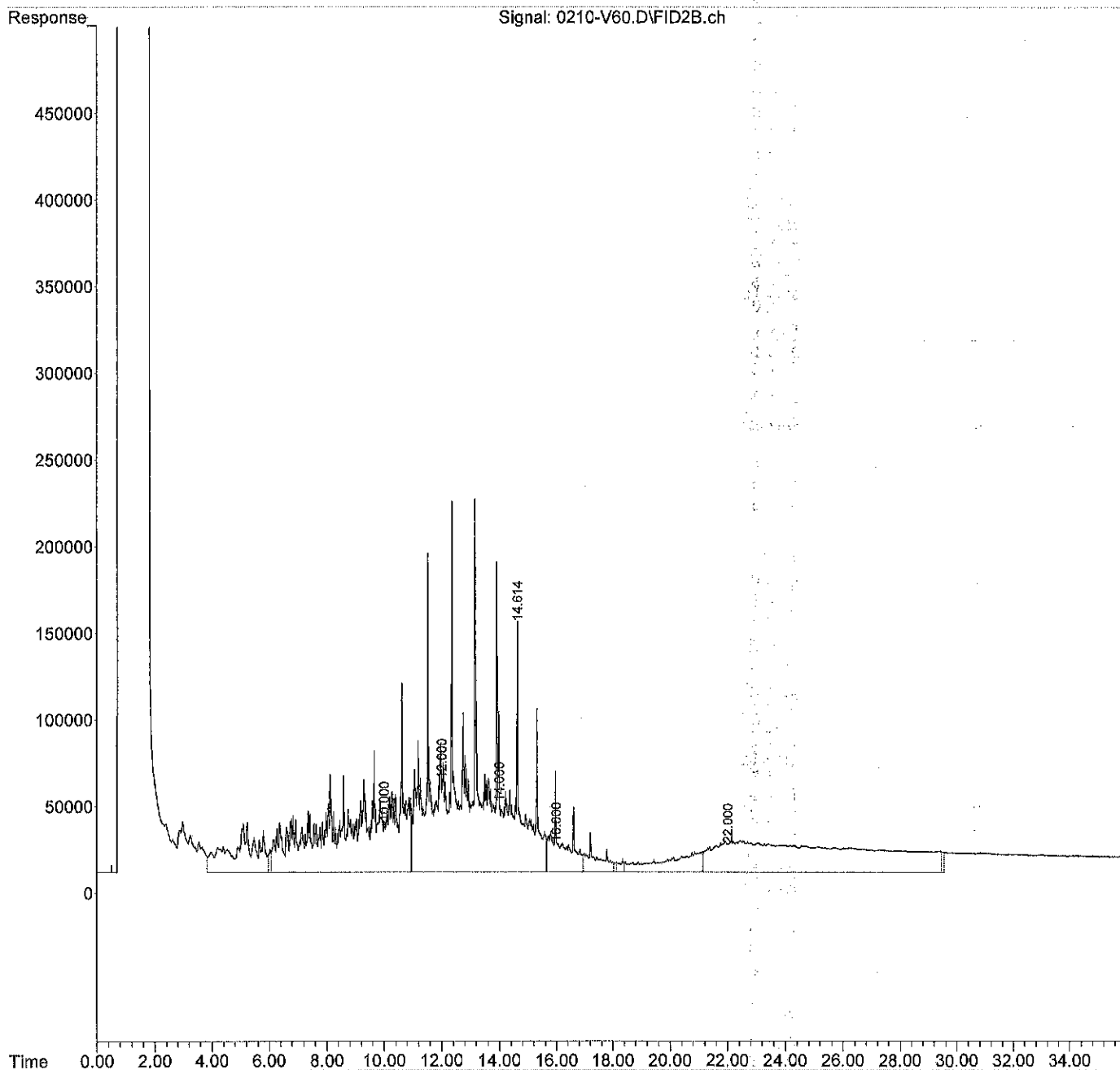
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V60.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 14:46
Operator : JP
Sample : CCV0210R-V3
Misc : RearSamp
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 15:23:28 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
 Data File : 0210-V72.D
 Signal(s) : FID2B.ch
 Acq On : 10 Feb 2022 22:46
 Operator : JP
 Sample : CCV0210R-V4
 Misc : RearSamp
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 10 23:23:02 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery =	0.00%	
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	36512738	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	210842368	47.509	PPM
5) H Diesel Fuel #2 (05-1...	14.000	208828812	94.718	PPM
6) H Oil (05-19-21)	22.000	38738420	9.332	PPM
7) H Oil Acid Clean (05-21...	22.000	38738420	10.460	PPM
8) H Diesel Fuel #2 Combo ...	14.000	204726346	95.750	PPM
9) H Oil Combo (05-19-21)	22.000	27855134	2.863	PPM
10) H Oil Acid Clean Combo ...	22.000	27855134	4.544	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	207936221	95.142	PPM
12) H HAWAII 8015M Oil (05-...	22.000	23699743	0.689	PPM
13) H Mineral Oil (05-19-21)	16.000	135826122	57.873	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	208828812	82.444	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	204726346	83.625	PPM
16) H Hydraulic Oil (03-19...	14.000	143012095	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	132795424	59.403	PPM
18) H Oil Acid Clean MO Com...	22.000	23264126	2.398	PPM
19) H Oil MO Combo (05-19-21)	22.000	23264126	0.352	PPM
20) H JP-4 (03-24-21)	8.000	158150453	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	136817078	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	181578726	NoCal	PPM

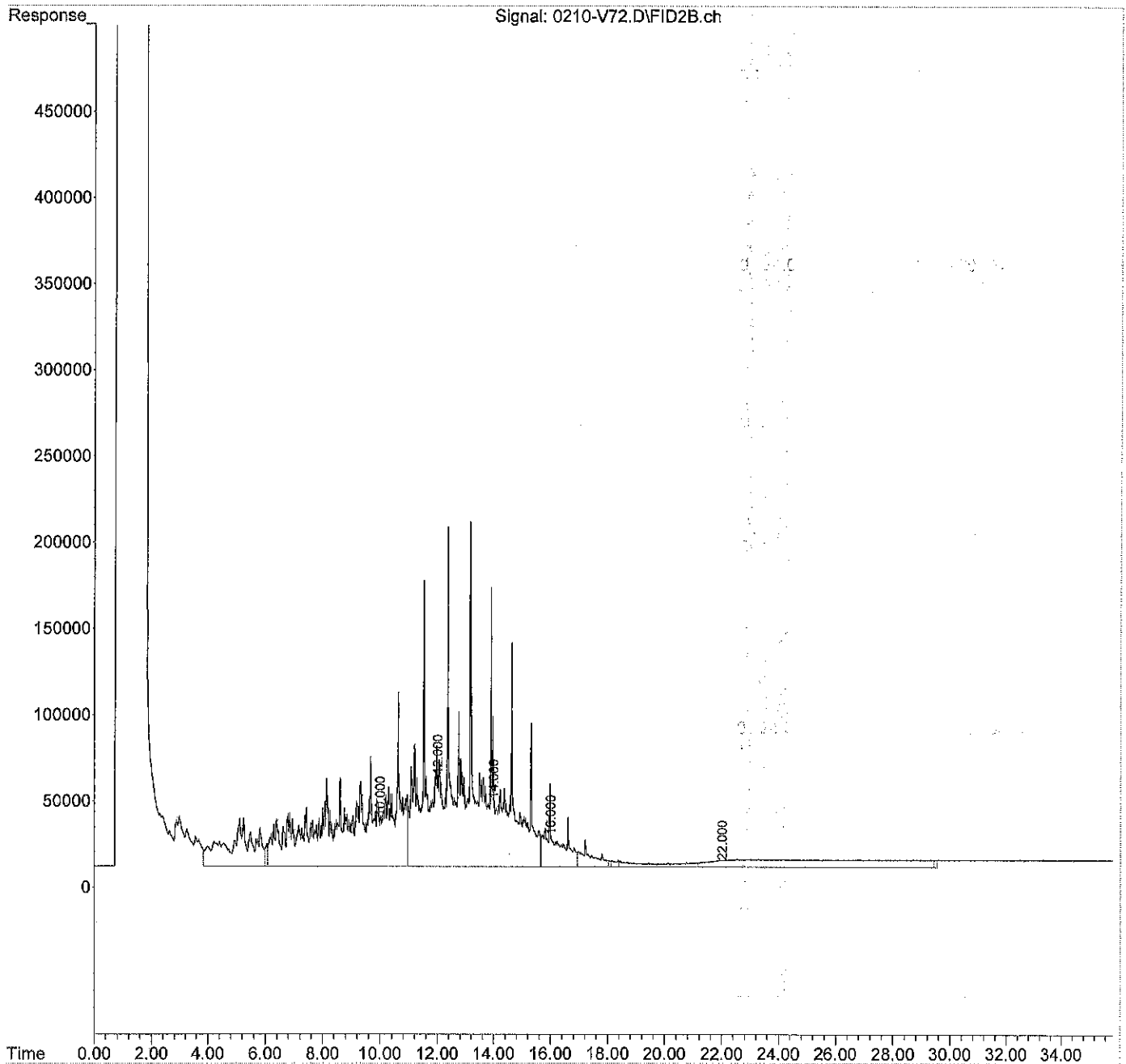
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220210.SEC\
Data File : 0210-V72.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2022 22:46
Operator : JP
Sample : CCV0210R-V4
Misc : RearSamp
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 10 23:23:02 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211\
 Data File : 0211-V10.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 14:17
 Operator : JP
 Sample : CCV0211F-V2
 Misc : Sample
 ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 14:53:13 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-21-21)	14.651	1947171	0.804	PPM
Spiked Amount	50.000	Recovery =	1.61%	
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	18686460	NoCal	PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	211274110	NoCal	PPM
5) H Diesel Fuel #2 (02-0...	14.000	216320405	94.163	PPM
6) H Oil (02-09-22)	22.000	53493032	24.110	PPM
7) H Oil Acid Clean (05-2...	22.000	53493032	NoCal	PPM
8) H Diesel Fuel #2 Combo ...	14.000	211568528	94.537	PPM
9) H Oil Combo (02-09-22)	22.000	40623082	16.719	PPM
10) H Oil Acid Clean Combo ...	22.000	40623082	NoCal	PPM
11) H HAWAII 8015M DF2 (02...	14.000	215229295	94.603	PPM
12) H HAWAII 8015M Oil (02...	22.000	35766621	14.311	PPM
13) H Mineral Oil (02-09-22)	16.000	145354170	60.623	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	216320405	NoCal	PPM
15) H Diesel Fuel #2 ACU CO...	14.000	211568528	NoCal	PPM
16) H Hydraulic Oil	16.000	170075460	NoCal	PPM
17) H Mineral Oil Combo (02...	16.000	141941360	61.181	PPM
18) H Oil Acid Clean MO Com...	22.000	36421633	NoCal	PPM
19) H Oil MO Combo (02-09-22)	22.000	36421633	14.501	PPM

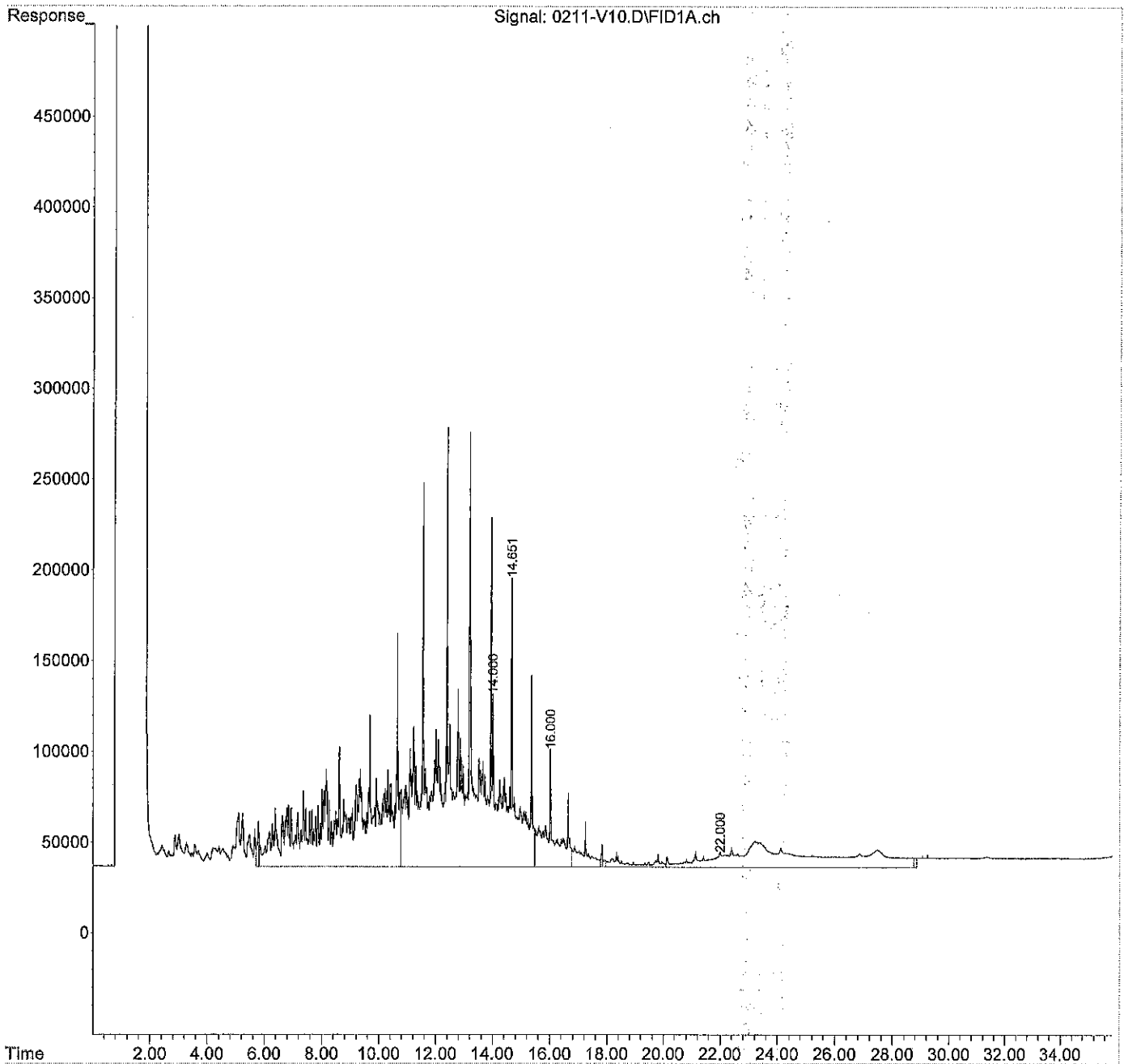
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211\
Data File : 0211-V10.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 14:17
Operator : JP
Sample : CCV0211F-V2
Misc : Sample
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 14:53:13 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211\
 Data File : 0211-V21.D
 Signal(s) : FID1A.ch
 Acq On : 11 Feb 2022 21:40
 Operator : JP
 Sample : CCV0211F-V3
 Misc : Sample
 ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 22:16:54 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Feb 11 07:58:46 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.652	1969946	0.812 PPM
Spiked Amount 50.000		Recovery =	1.62%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	18978512	NoCal PPM
4) H Diesel Fuel #1 (7-22-21)	10.000	216193510	NoCal PPM
5) H Diesel Fuel #2 (02-0...	14.000	223138095	97.073 PPM
6) H Oil (02-09-22)	22.000	47919811	20.877 PPM
7) H Oil Acid Clean (05-2...	22.000	47919811	NoCal PPM
8) H Diesel Fuel #2 Combo ...	14.000	217426409	97.109 PPM
9) H Oil Combo (02-09-22)	22.000	33969687	12.801 PPM
10) H Oil Acid Clean Combo ...	22.000	33969687	NoCal PPM
11) H HAWAII 8015M DF2 (02...	14.000	222001808	97.524 PPM
12) H HAWAII 8015M Oil (02...	22.000	28248303	9.724 PPM
13) H Mineral Oil (02-09-22)	16.000	151340305	63.035 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	223138095	NoCal PPM
15) H Diesel Fuel #2 ACU CO...	14.000	217426409	NoCal PPM
16) H Hydraulic Oil	16.000	169977140	NoCal PPM
17) H Mineral Oil Combo (02...	16.000	147257628	63.404 PPM
18) H Oil Acid Clean MO Com...	22.000	28917534	NoCal PPM
19) H Oil MO Combo (02-09-22)	22.000	28917534	9.959 PPM

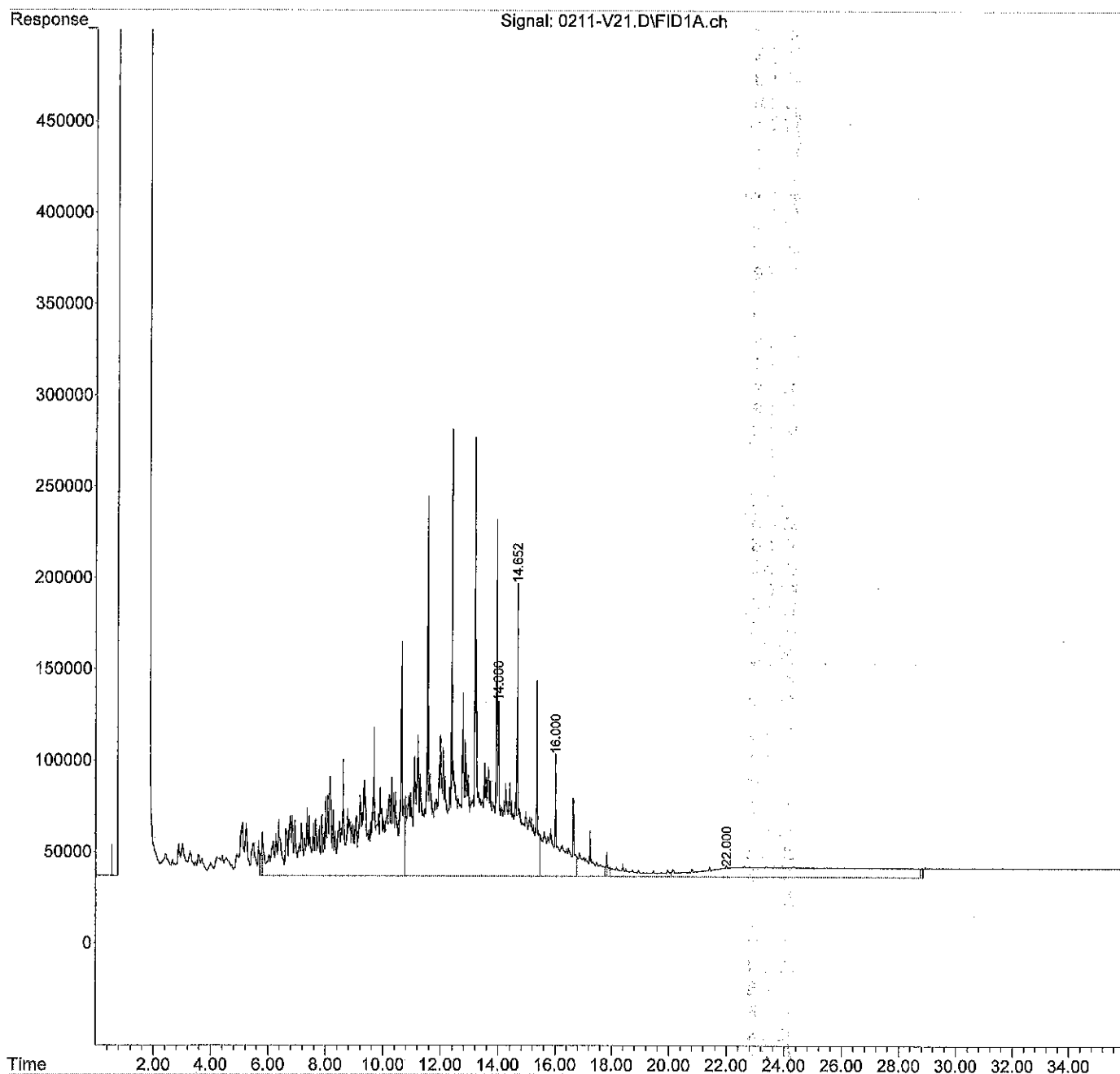
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211\
Data File : 0211-V21.D
Signal(s) : FID1A.ch
Acq On : 11 Feb 2022 21:40
Operator : JP
Sample : CCV0211F-V3
Misc : Sample
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 22:16:54 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Feb 11 07:58:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V60.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 14:17
 Operator : JP
 Sample : CCV0211R-V2
 Misc : RearSamp
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 14:53:51 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	34594133	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	209842492	47.265	PPM
5) H Diesel Fuel #2 (05-1...	14.000	208865886	94.735	PPM
6) H Oil (05-19-21)	22.000	39018972	9.511	PPM
7) H Oil Acid Clean (05-21...	22.000	39018972	10.627	PPM
8) H Diesel Fuel #2 Combo ...	14.000	204639379	95.708	PPM
9) H Oil Combo (05-19-21)	22.000	27963399	2.933	PPM
10) H Oil Acid Clean Combo ...	22.000	27963399	4.609	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	207991612	95.168	PPM
12) H HAWAII 8015M Oil (05-...	22.000	23692819	0.685	PPM
13) H Mineral Oil (05-19-21)	16.000	136679738	58.247	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	208865886	82.459	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	204639379	83.589	PPM
16) H Hydraulic Oil (03-19...	14.000	143854194	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	133527463	59.731	PPM
18) H Oil Acid Clean MO Com...	22.000	23201189	2.358	PPM
19) H Oil MO Combo (05-19-21)	22.000	23201189	0.309	PPM
20) H JP-4 (03-24-21)	8.000	155201949	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	135399996	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	180344278	NoCal	PPM

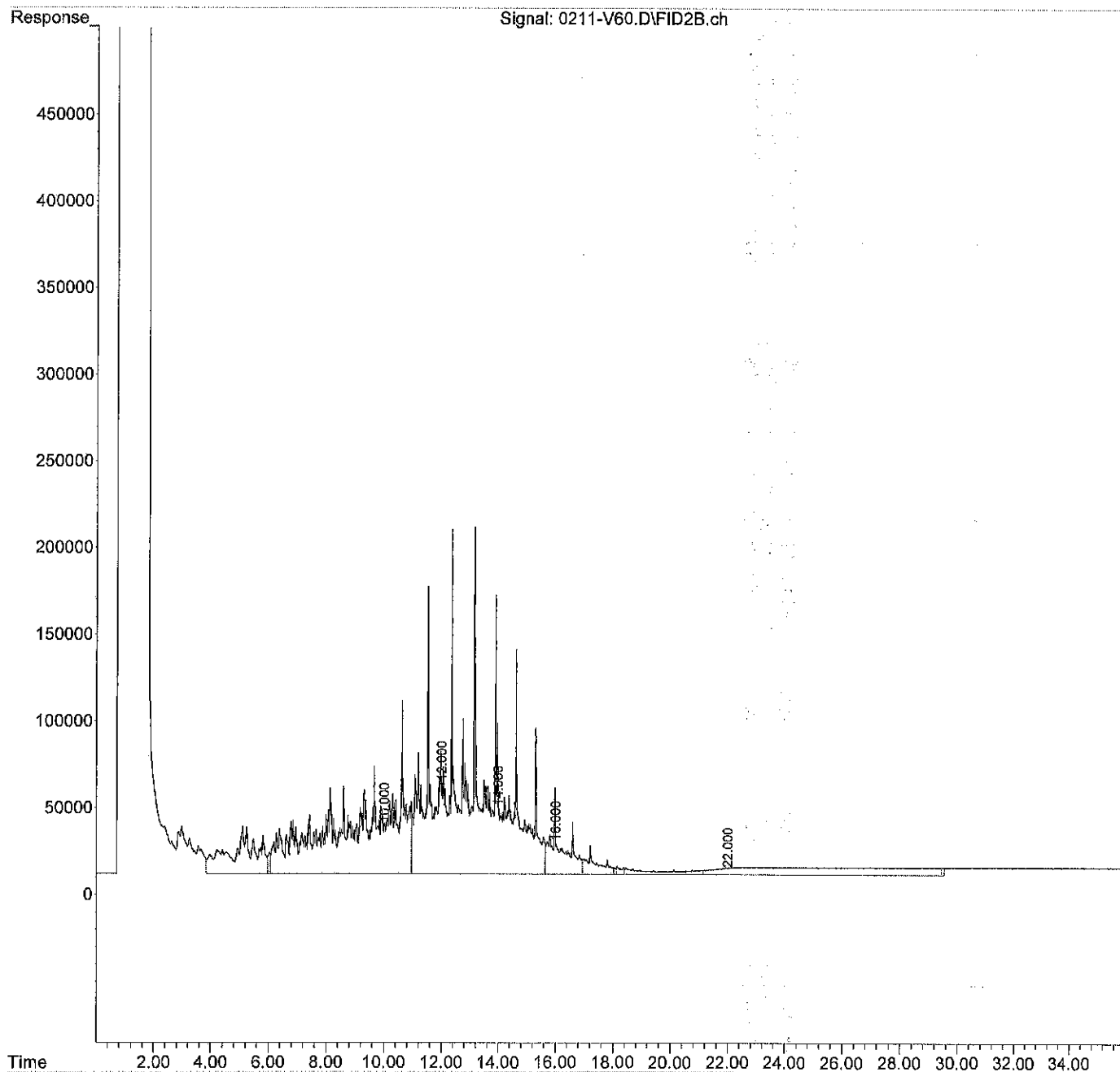
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V60.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 14:17
Operator : JP
Sample : CCV0211R-V2
Misc : RearSamp
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 14:53:51 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V71.D
 Signal(s) : FID2B.ch
 Acq On : 11 Feb 2022 21:40
 Operator : JP
 Sample : CCV0211R-V3
 Misc : RearSamp
 ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 11 22:17:31 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	35385680	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	208020955	46.820 PPM
5) H Diesel Fuel #2 (05-1...	14.000	206302302	93.518 PPM
6) H Oil (05-19-21)	22.000	36523546	7.921 PPM
7) H Oil Acid Clean (05-21...	22.000	36523546	9.142 PPM
8) H Diesel Fuel #2 Combo ...	14.000	202289480	94.561 PPM
9) H Oil Combo (05-19-21)	22.000	25764114	1.511 PPM
10) H Oil Acid Clean Combo ...	22.000	25764114	3.281 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	205429731	93.942 PPM
12) H HAWAII 8015M Oil (05...	22.000	21708756	N.D. PPM
13) H Mineral Oil (05-19-21)	16.000	134115437	57.124 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	206302302	81.402 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	202289480	82.590 PPM
16) H Hydraulic Oil (03-19...	14.000	140927400	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	131429857	58.790 PPM
18) H Oil Acid Clean MO Com...	22.000	21279047	1.145 PPM
19) H Oil MO Combo (05-19-21)	22.000	21279047	N.D. PPM
20) H JP-4 (03-24-21)	8.000	155254192	NoCal PPM
21) H JP-5 (03-25-21)	8.000	134590486	NoCal PPM
22) H JP-8 (03-26-21)	8.000	178995011	NoCal PPM

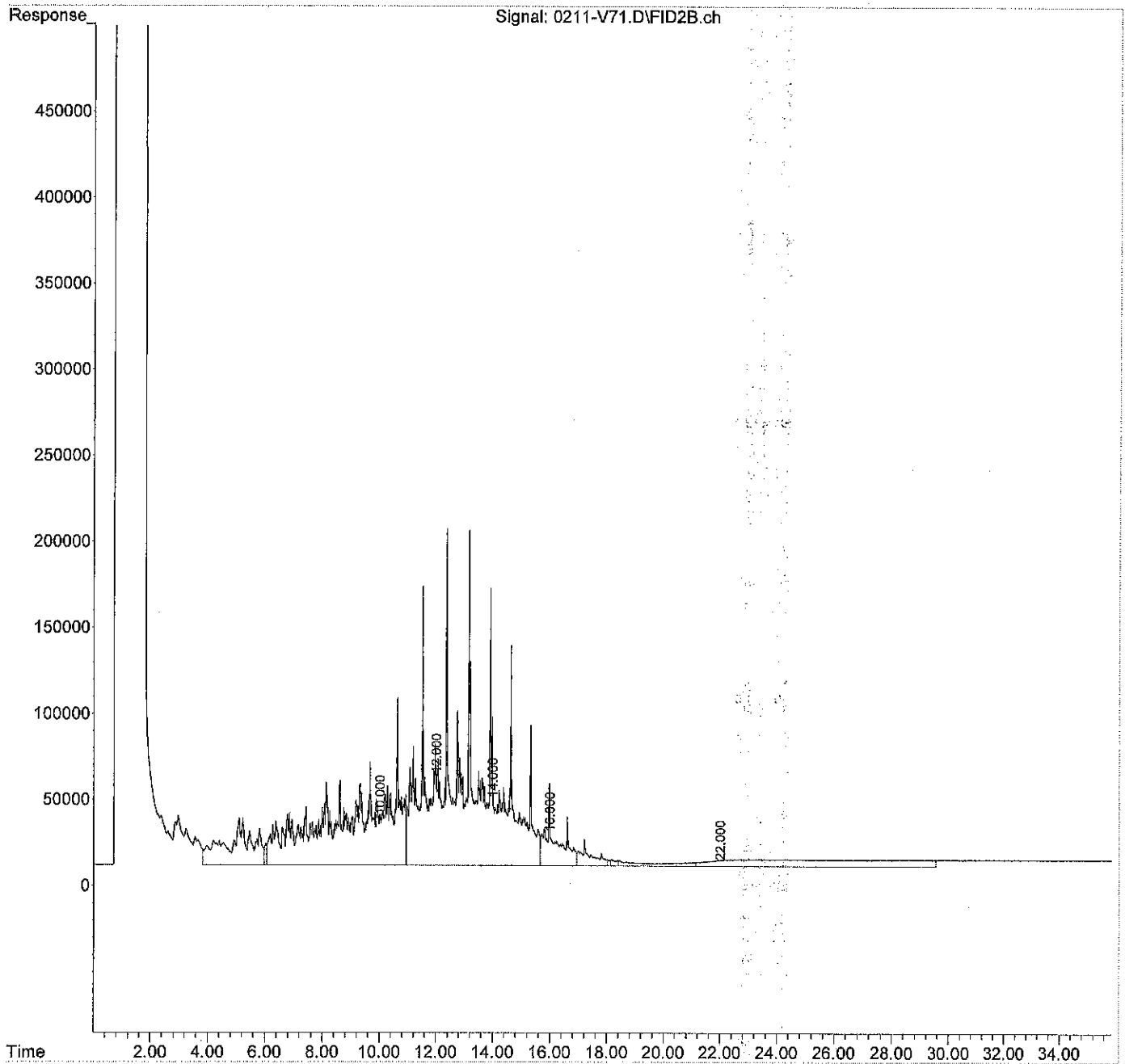
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V71.D
Signal(s) : FID2B.ch
Acq On : 11 Feb 2022 21:40
Operator : JP
Sample : CCV0211R-V3
Misc : RearSamp
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 11 22:17:31 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
 Data File : 0211-V82.D
 Signal(s) : FID2B.ch
 Acq On : 12 Feb 2022 4:59
 Operator : JP
 Sample : CCV0211R-V4
 Misc : RearSamp
 ALS Vial : 82 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 12 05:36:10 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	35587636	NoCal	PPM
4) H Diesel Fuel #1 (07-22...	10.000	206904345	46.548	PPM
5) H Diesel Fuel #2 (05-1...	14.000	204890864	92.848	PPM
6) H Oil (05-19-21)	22.000	35537675	7.293	PPM
7) H Oil Acid Clean (05-21...	22.000	35537675	8.555	PPM
8) H Diesel Fuel #2 Combo ...	14.000	200951894	93.908	PPM
9) H Oil Combo (05-19-21)	22.000	24921838	0.966	PPM
10) H Oil Acid Clean Combo ...	22.000	24921838	2.772	PPM
11) H HAWAII 8015M DF2 (05-...	12.000	204015133	93.265	PPM
12) H HAWAII 8015M Oil (05-...	22.000	20948472	N.D.	PPM
13) H Mineral Oil (05-19-21)	16.000	132984912	56.630	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	204890864	80.819	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	200951894	82.022	PPM
16) H Hydraulic Oil (03-19...	14.000	139673979	NoCal	PPM
17) H Mineral Oil Combo (05...	16.000	130347962	58.305	PPM
18) H Oil Acid Clean MO Com...	22.000	20538829	0.678	PPM
19) H Oil MO Combo (05-19-21)	22.000	20538829	N.D.	PPM
20) H JP-4 (03-24-21)	8.000	154924922	NoCal	PPM
21) H JP-5 (03-25-21)	8.000	134109869	NoCal	PPM
22) H JP-8 (03-26-21)	8.000	178183879	NoCal	PPM

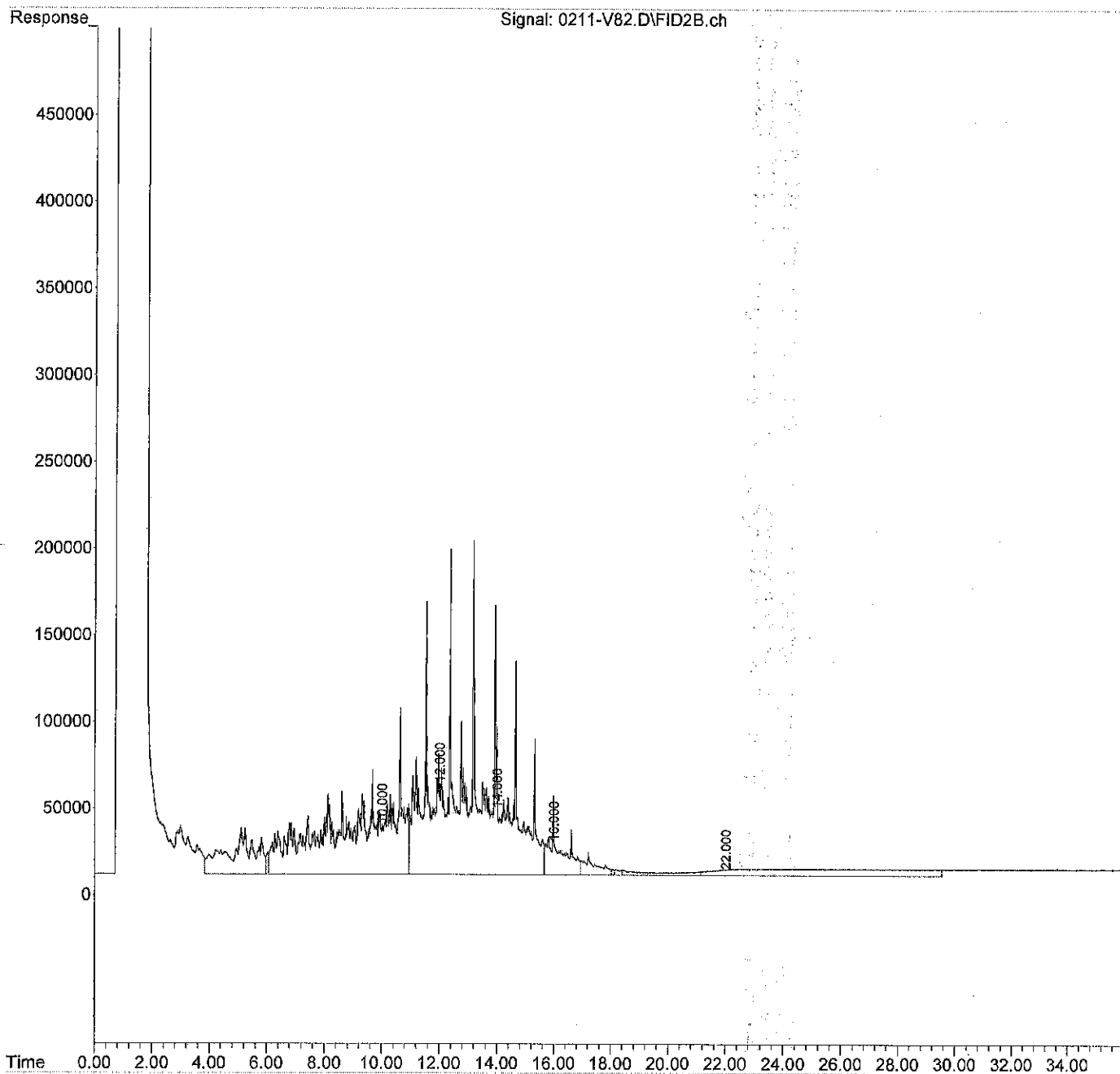
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220211.SEC\
Data File : 0211-V82.D
Signal(s) : FID2B.ch
Acq On : 12 Feb 2022 4:59
Operator : JP
Sample : CCV0211R-V4
Misc : RearSamp
ALS Vial : 82 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 12 05:36:10 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220214.SEC\
 Data File : 0214-V67.D
 Signal(s) : FID2B.ch
 Acq On : 14 Feb 2022 19:27
 Operator : JP
 Sample : CCV0214R-V4
 Misc : RearSamp
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 14 20:03:42 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	34160078	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	205417378	46.185 PPM
5) H Diesel Fuel #2 (05-1...	14.000	203921582	92.388 PPM
6) H Oil (05-19-21)	22.000	36455035	7.878 PPM
7) H Oil Acid Clean (05-21...	22.000	36455035	9.101 PPM
8) H Diesel Fuel #2 Combo ...	14.000	200002322	93.444 PPM
9) H Oil Combo (05-19-21)	22.000	25874351	1.582 PPM
10) H Oil Acid Clean Combo ...	22.000	25874351	3.348 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	203085834	92.820 PPM
12) H HAWAII 8015M Oil (05...	22.000	21902582	N.D. PPM
13) H Mineral Oil (05-19-21)	16.000	132726479	56.517 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	203921582	80.420 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	200002322	81.619 PPM
16) H Hydraulic Oil (03-19...	14.000	139537309	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	130097501	58.192 PPM
18) H Oil Acid Clean MO Com...	22.000	21500731	1.285 PPM
19) H Oil MO Combo (05-19-21)	22.000	21500731	N.D. PPM
20) H JP-4 (03-24-21)	8.000	152443986	NoCal PPM
21) H JP-5 (03-25-21)	8.000	132664167	NoCal PPM
22) H JP-8 (03-26-21)	8.000	176654267	NoCal PPM

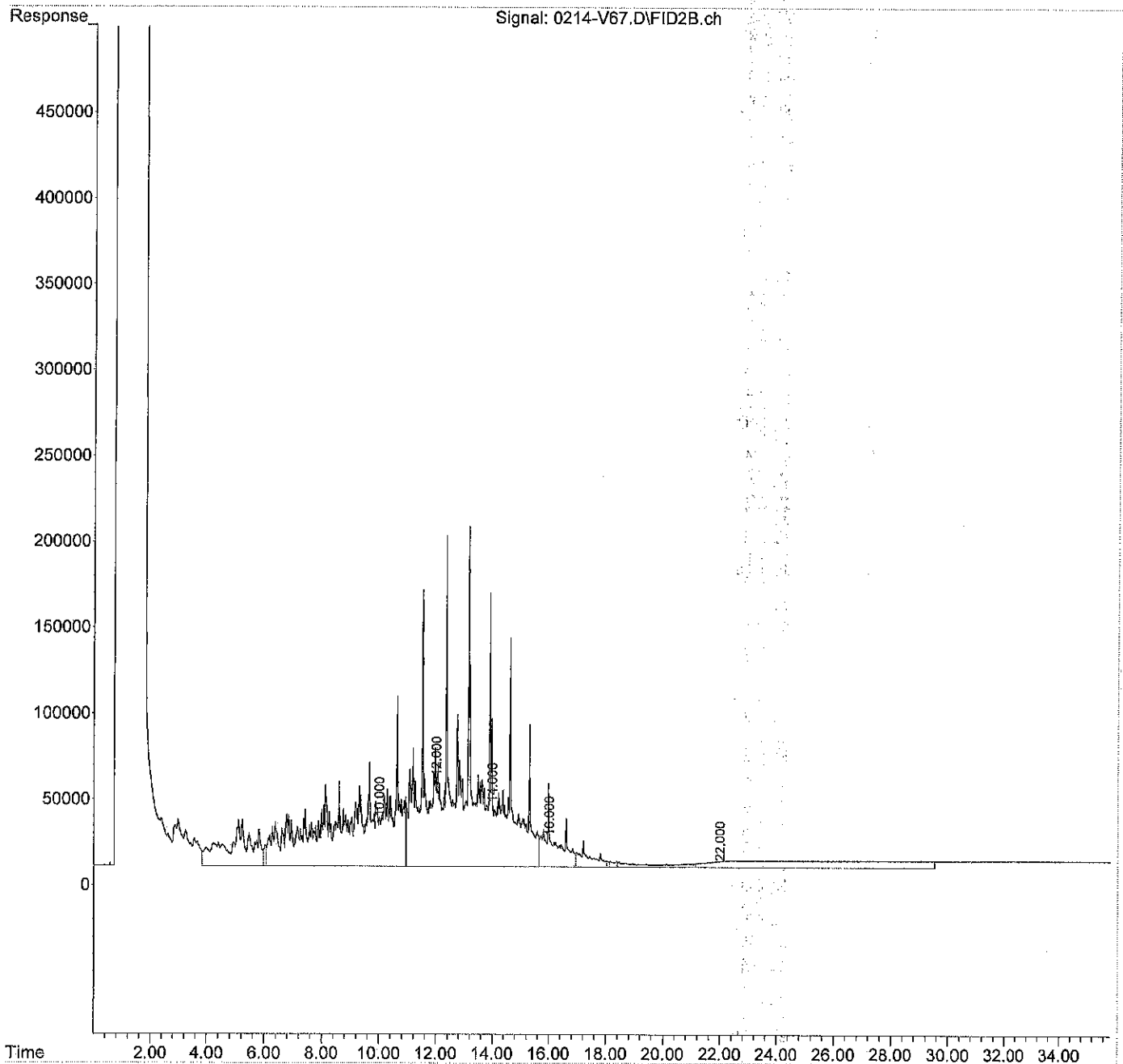
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220214.SEC\
Data File : 0214-V67.D
Signal(s) : FID2B.ch
Acq On : 14 Feb 2022 19:27
Operator : JP
Sample : CCV0214R-V4
Misc : RearSamp
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 14 20:03:42 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220214.SEC\
 Data File : 0214-V82.D
 Signal(s) : FID2B.ch
 Acq On : 15 Feb 2022 5:26
 Operator : JP
 Sample : CCV0214R-V5
 Misc : RearSamp
 ALS Vial : 82 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 15 06:02:52 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Wed Dec 15 08:14:36 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	33725016	NoCal PPM
4) H Diesel Fuel #1 (07-22...	10.000	207568978	46.710 PPM
5) H Diesel Fuel #2 (05-1...	14.000	206747761	93.730 PPM
6) H Oil (05-19-21)	22.000	38159794	8.964 PPM
7) H Oil Acid Clean (05-21...	22.000	38159794	10.115 PPM
8) H Diesel Fuel #2 Combo ...	14.000	202604968	94.715 PPM
9) H Oil Combo (05-19-21)	22.000	27267265	2.483 PPM
10) H Oil Acid Clean Combo ...	22.000	27267265	4.189 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	205895017	94.165 PPM
12) H HAWAII 8015M Oil (05...	22.000	23083215	0.277 PPM
13) H Mineral Oil (05-19-21)	16.000	135111426	57.560 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	206747761	81.585 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	202604968	82.724 PPM
16) H Hydraulic Oil (03-19...	14.000	142239617	NoCal PPM
17) H Mineral Oil Combo (05...	16.000	132111469	59.096 PPM
18) H Oil Acid Clean MO Com...	22.000	22630063	1.998 PPM
19) H Oil MO Combo (05-19-21)	22.000	22630063	N.D. PPM
20) H JP-4 (03-24-21)	8.000	153158511	NoCal PPM
21) H JP-5 (03-25-21)	8.000	133911078	NoCal PPM
22) H JP-8 (03-26-21)	8.000	178421390	NoCal PPM

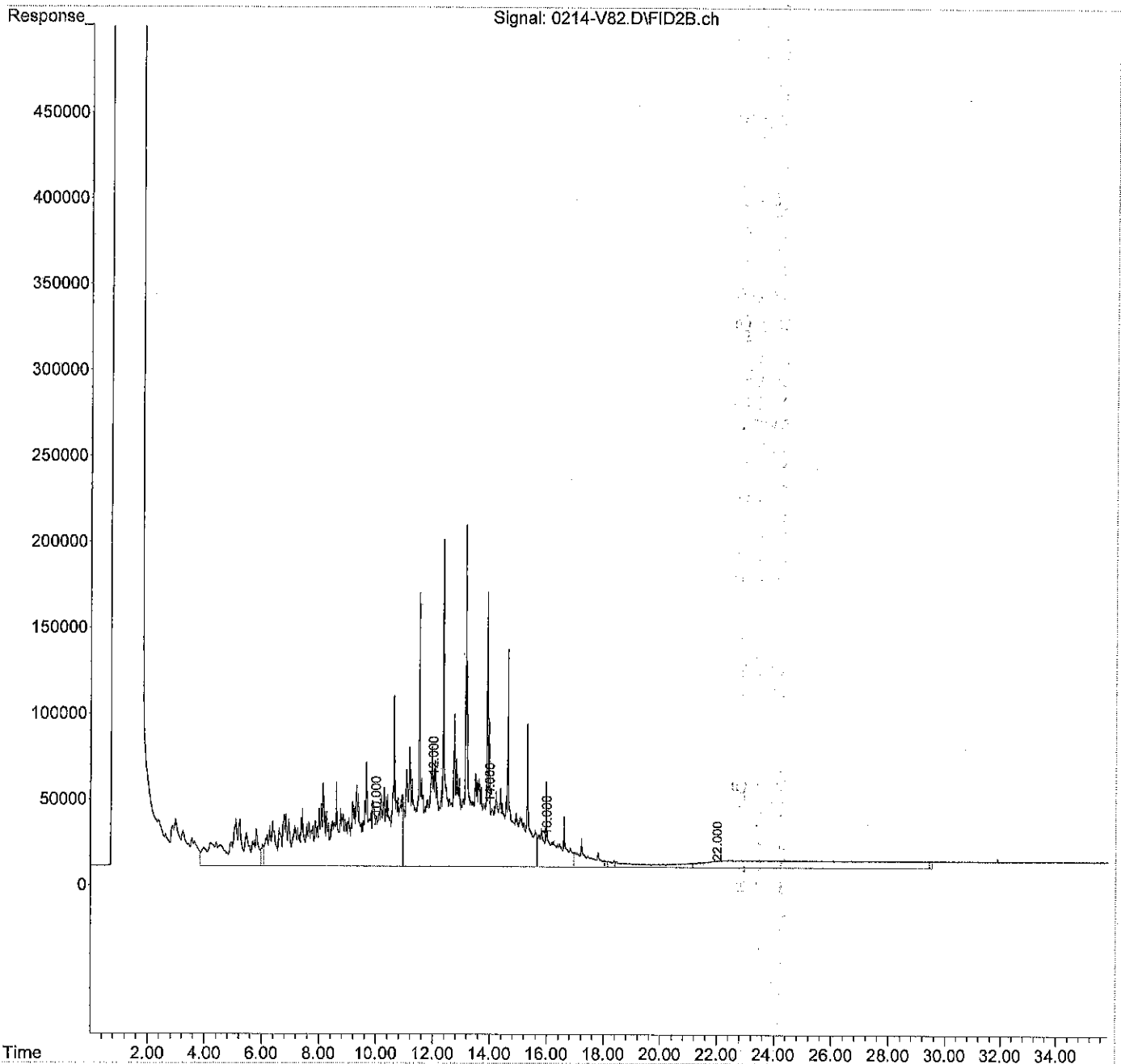
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220214.SEC\
Data File : 0214-V82.D
Signal(s) : FID2B.ch
Acq On : 15 Feb 2022 5:26
Operator : JP
Sample : CCV0214R-V5
Misc : RearSamp
ALS Vial : 82 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 15 06:02:52 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Wed Dec 15 08:14:36 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Volatiles Organics
EPA 8260D Data

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209020.d
 Acq On : 9 Feb 2022 6:40 pm
 Operator :
 Sample : 02-092-01h
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 10 10:50:02 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

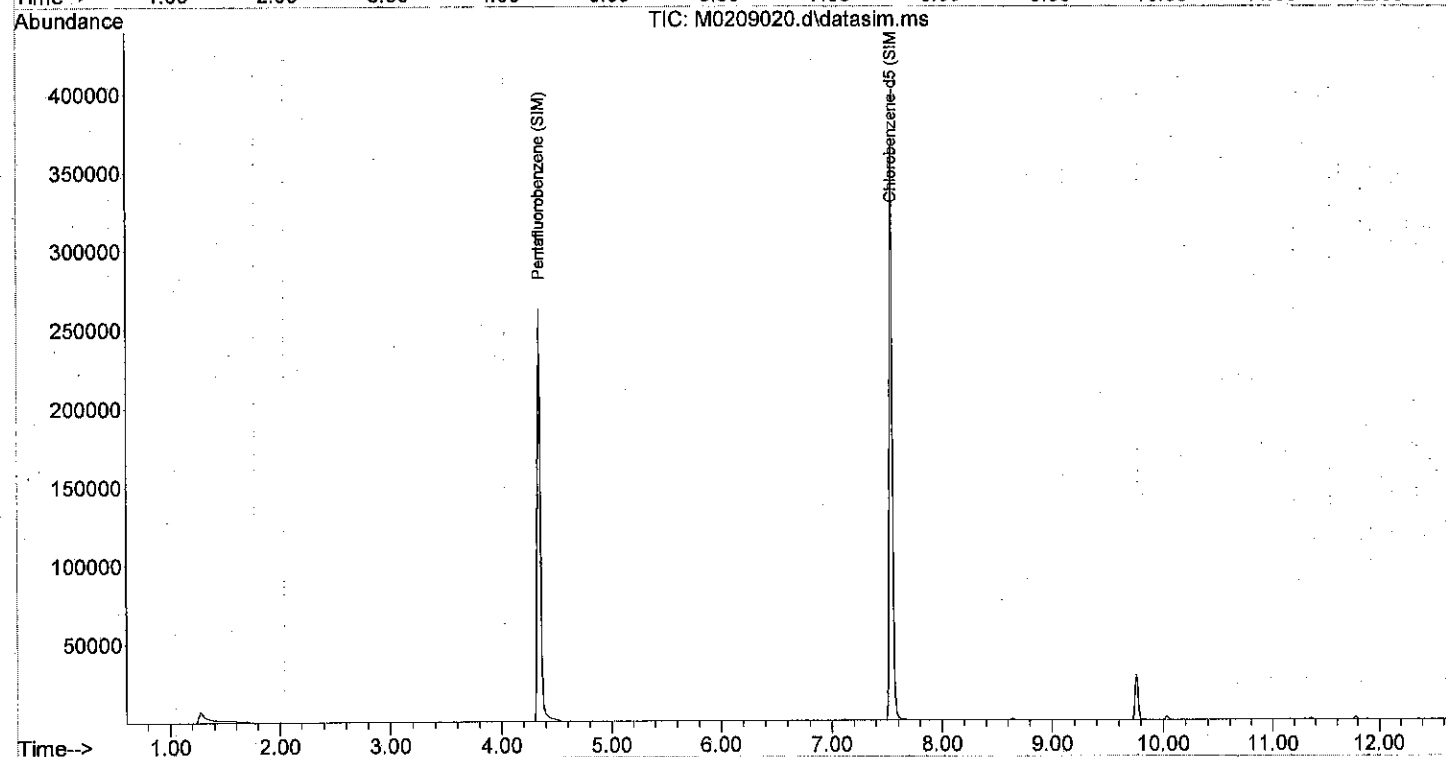
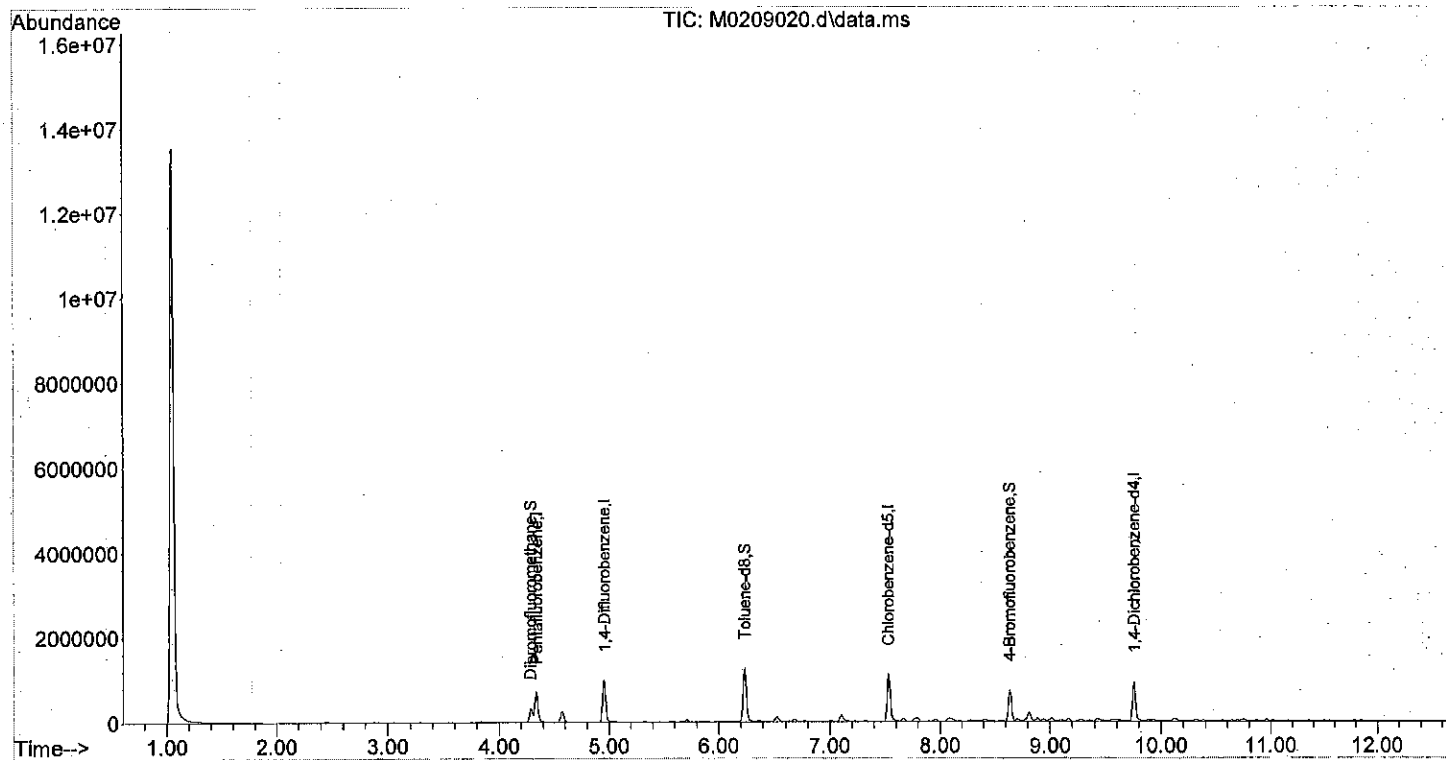
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	516046	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	536090	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	847794	10.00	ppb	0.00
43) Chlorobenzene-d5	7.530	117	709080	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	723815	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	284196	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.288	111	207784	9.76	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	97.60%
41) Toluene-d8	6.237	98	935075	9.97	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.70%
59) 4-Bromofluorobenzene	8.636	95	287616	9.47	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	94.70%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
Data File : M0209020.d
Acq On : 9 Feb 2022 6:40 pm
Operator :
Sample : 02-092-01h
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 10 10:50:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
Quant Title :
QLast Update : Fri Feb 04 16:59:34 2022
Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209021.d
 Acq On : 9 Feb 2022 7:07 pm
 Operator :
 Sample : 02-092-02h
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 10 10:51:03 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

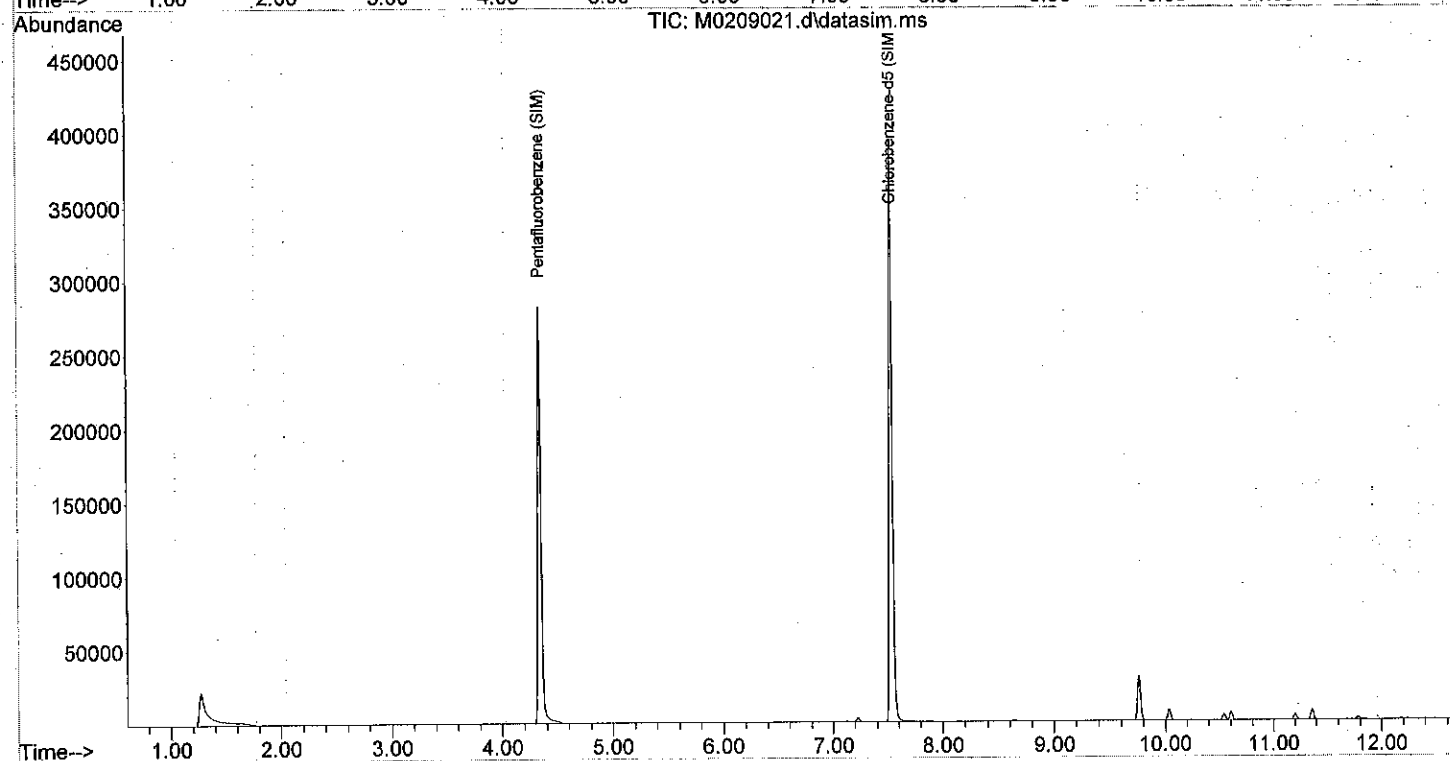
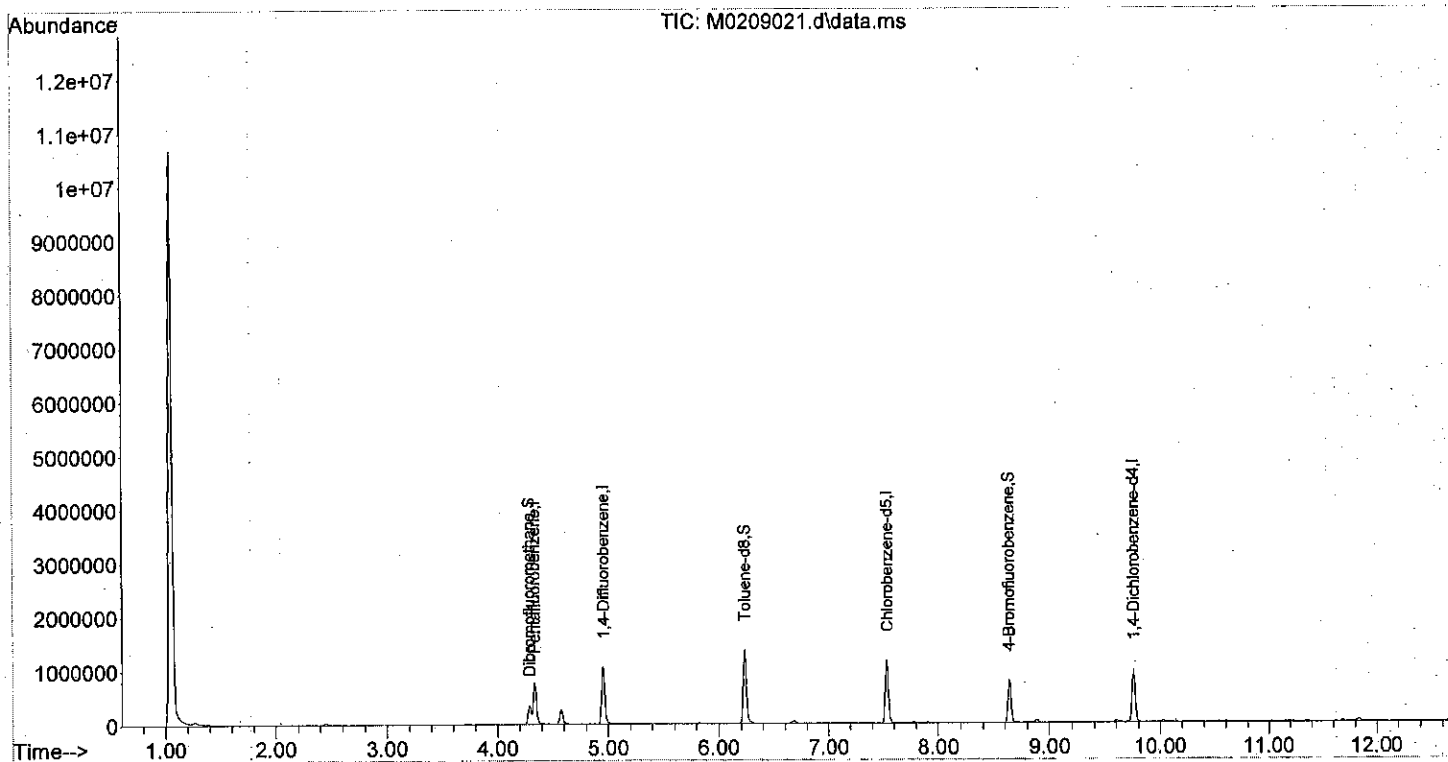
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.334	168	552914	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	573781	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	915271	10.00	ppb	0.00
43) Chlorobenzene-d5	7.537	117	756752	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.535	117	776596	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.757	152	303133	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	223351	9.79	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	97.90%
41) Toluene-d8	6.236	98	1011652	10.00	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.00%
59) 4-Bromofluorobenzene	8.636	95	323297	9.98	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	99.80%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
Data File : M0209021.d
Acq On : 9 Feb 2022 7:07 pm
Operator :
Sample : 02-092-02h
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 10 10:51:03 2022
Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
Quant Title :
QLast Update : Fri Feb 04 16:59:34 2022
Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209010.d
 Acq On : 9 Feb 2022 2:15 pm
 Operator :
 Sample : MB0209W1
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

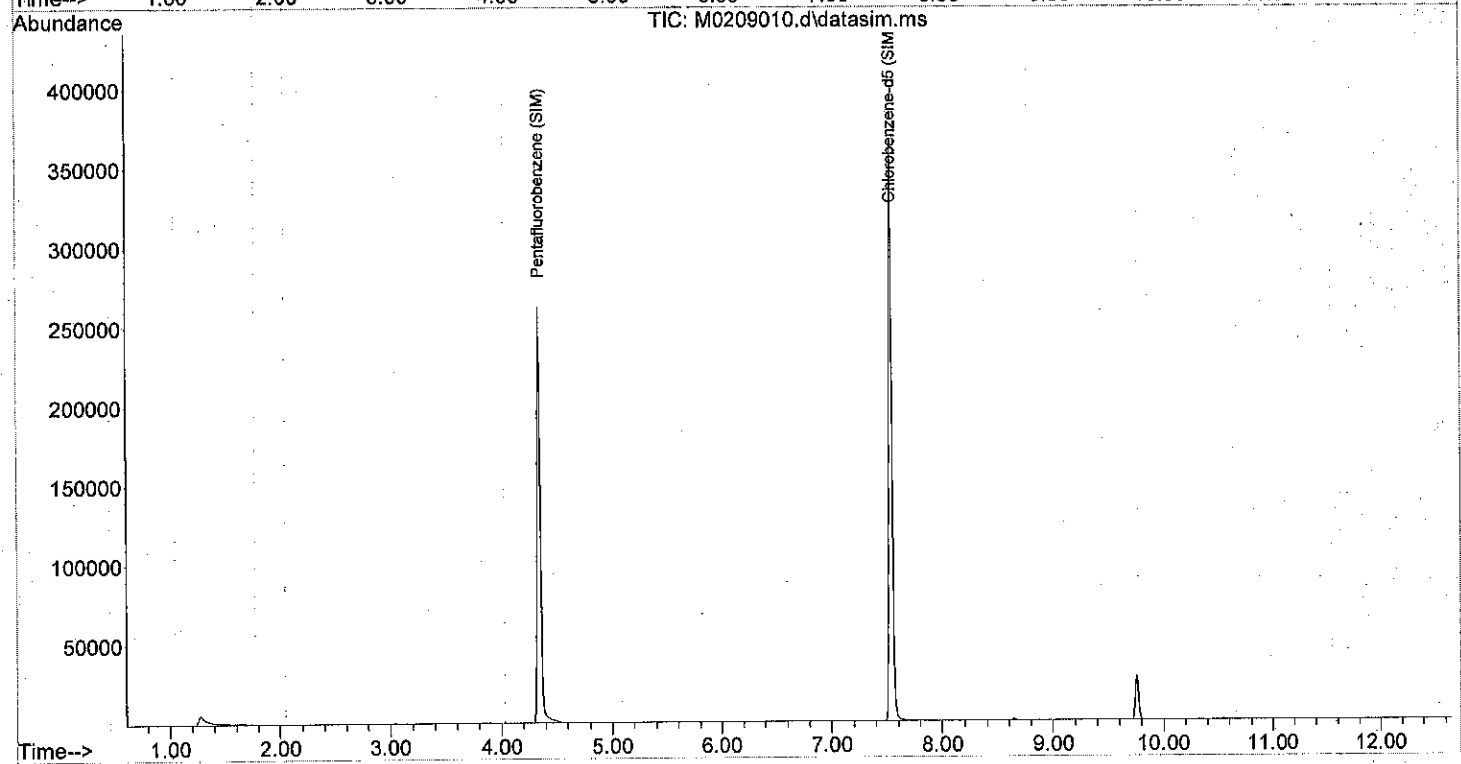
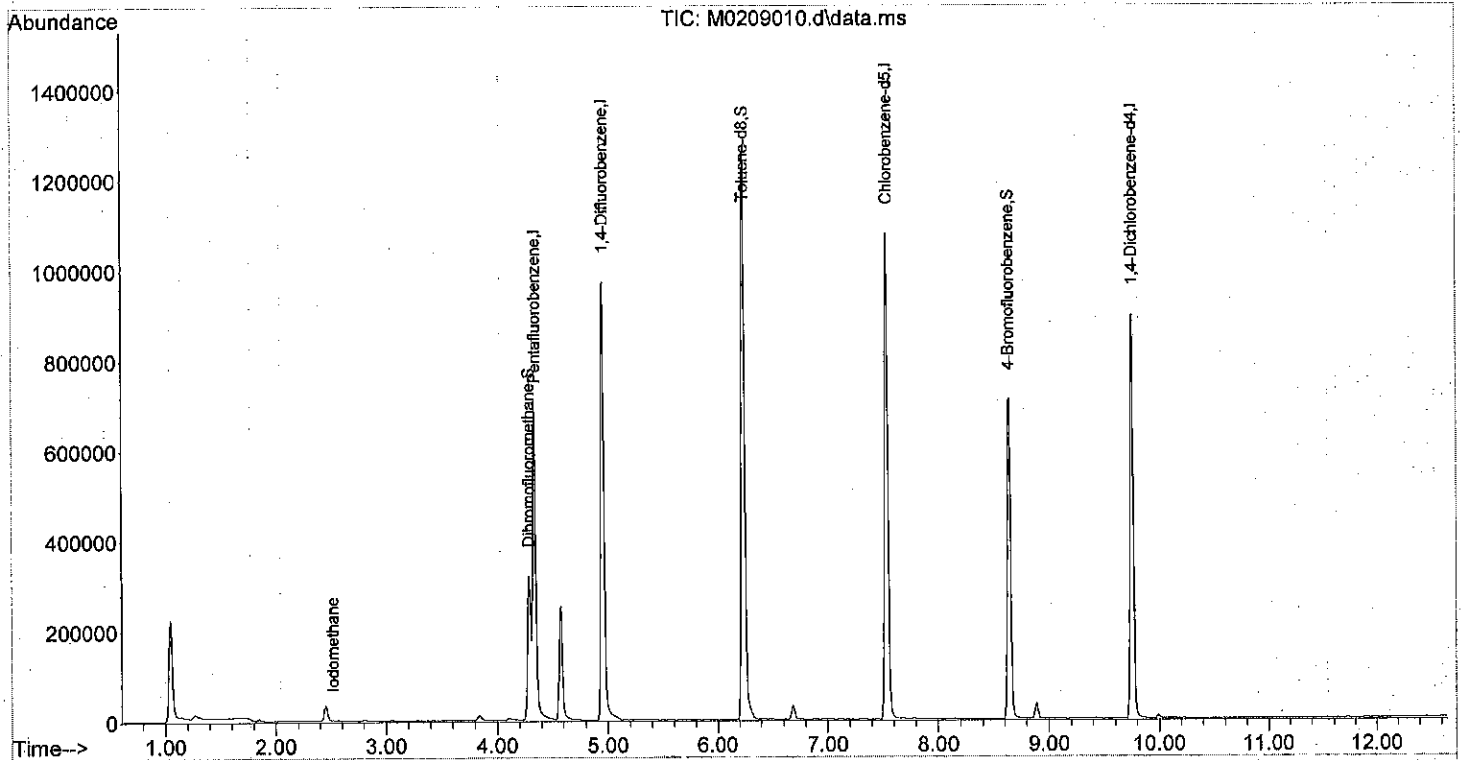
Quant Time: Feb 09 14:31:27 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

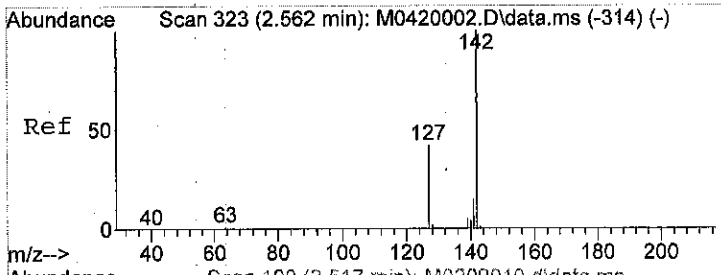
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.342	168	521212	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	538405	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	851805	10.00	ppb	0.00
43) Chlorobenzene-d5	7.537	117	707774	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.535	117	723398	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.757	152	280449	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	208346	9.69	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	96.90%
41) Toluene-d8	6.236	98	941816	10.00	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.00%
59) 4-Bromofluorobenzene	8.636	95	294085	9.71	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	97.10%
Target Compounds						
10) Iodomethane	2.517	142	556	4.59	ppb	Qvalue 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

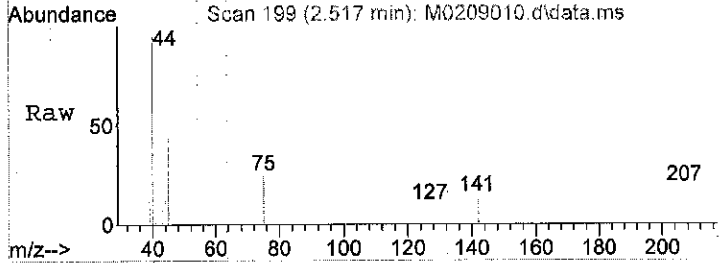
Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209010.d
 Acq On : 9 Feb 2022 2:15 pm
 Operator :
 Sample : MB0209W1
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 09 14:31:27 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

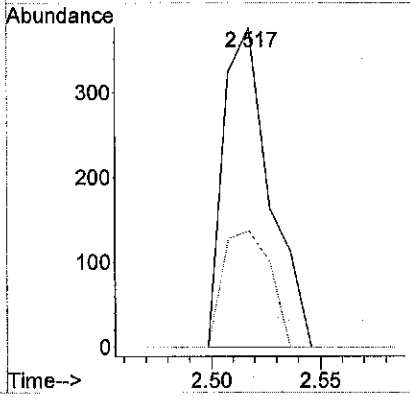
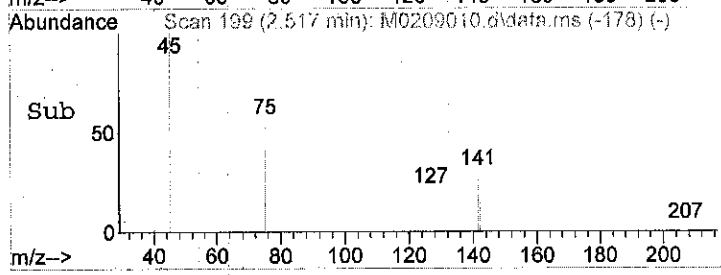




#10
 Iodomethane
 Concen: 4.59 ppb
 RT: 2.517 min Scan# 199
 Delta R.T. -0.001 min
 Lab File: M0209010.d
 Acq: 9 Feb 2022 2:15 pm



Tgt Ion: 142 Resp: 556
 Ion Ratio Lower Upper
 142 100
 127 37.4 36.9 55.3



Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.342	168	538508	10.00	ppb	0.00	
30) Pentafluorobenzene (SIM)	4.340	168	553499	10000.00	ppt	0.00	
33) 1,4-Difluorobenzene	4.950	114	885126	10.00	ppb	0.00	
43) Chlorobenzene-d5	7.538	117	709980	10.00	ppb	0.00	
60) Chlorobenzene-d5 (SIM)	7.536	117	728697	10000.00	ppt	0.00	
62) 1,4-Dichlorobenzene-d4	9.758	152	294554	10.00	ppb	0.00	
System Monitoring Compounds							
25) Dibromofluoromethane	4.287	111	209484	9.43	ppb	0.00	
Spiked Amount	10.000	Range	75 - 127	Recovery	=	94.30%	
41) Toluene-d8	6.237	98	966977	9.88	ppb	0.00	
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.80%	
59) 4-Bromofluorobenzene	8.636	95	302986	9.97	ppb	0.00	
Spiked Amount	10.000	Range	78 - 125	Recovery	=	99.70%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.174	85	130085	6.58	ppb		98
3) Chloromethane	1.316	50	216655	8.45	ppb		99
4) Vinyl Chloride	1.392	62	277916	9.62	ppb		98
5) Bromomethane	1.647	96	71348	14.40	ppb		96
6) Chloroethane	1.732	64	191277	9.02	ppb		98
7) Trichlorofluoromethane	1.950	101	518741	9.42	ppb		100
8) 1,1-Dichloroethene	2.385	61	575434	10.09	ppb		99
9) Acetone	2.433	43	30043	8.68	ppb		100
10) Iodomethane	2.518	142	79545m	8.03	ppb		
11) Carbon Disulfide	2.575	76	835734	8.46	ppb		99
12) Methylene Chloride	2.802	49	469206	9.84	ppb		100
13) Acrylonitrile	3.010	53	51444	10.08	ppb	#	97
14) (trans) 1,2-Dichloroet...	3.038	61	561270	10.10	ppb		100
15) Methyl t-Butyl Ether	3.048	73	619642	10.32	ppb		99
16) n-Hexane	3.294	57	607123	11.82	ppb		100
17) 1,1-Dichloroethane	3.398	63	665430	10.35	ppb		100
18) Vinyl Acetate	3.445	43	392415	10.10	ppb		99
19) 2,2-Dichloropropane	3.890	77	623860	10.76	ppb		100
20) (cis) 1,2-Dichloroethene	3.890	61	704458	10.41	ppb		100
21) 2-Butanone	3.899	43	62473	9.78	ppb		98
22) Bromochloromethane	4.085	130	200382	10.83	ppb		99
23) Chloroform	4.155	83	628962	10.34	ppb		100
24) 1,1,1-Trichloroethane	4.319	97	571462	10.28	ppb		100
26) Carbon Tetrachloride	4.459	117	518650	10.00	ppb		99
27) 1,1-Dichloropropene	4.459	75	494599	9.74	ppb		100
28) Benzene	4.631	78	1388156	10.25	ppb		100
29) 1,2-Dichloroethane	4.638	62	367847	10.10	ppb		99
31] Vinyl Chloride (SIM)	1.398	62	287159	9689.18	ppt		99
32] 1,1-Dichloroethene (SIM)	2.391	61	585825	10067.31	ppt		100
34) Trichloroethene	5.176	130	390189	10.56	ppb		100
35) 1,2-Dichloropropane	5.364	63	357448	10.40	ppb		99
36) Dibromomethane	5.465	174	149791	10.37	ppb		99
37) Bromodichloromethane	5.597	83	439174	10.64	ppb		100
38) 2-Chloroethyl Vinyl Ether	5.870	63	18037	8.38	ppb		98
39) (cis) 1,3-Dichloropropene	5.995	75	498821	10.77	ppb		100

SP
2-10-22

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

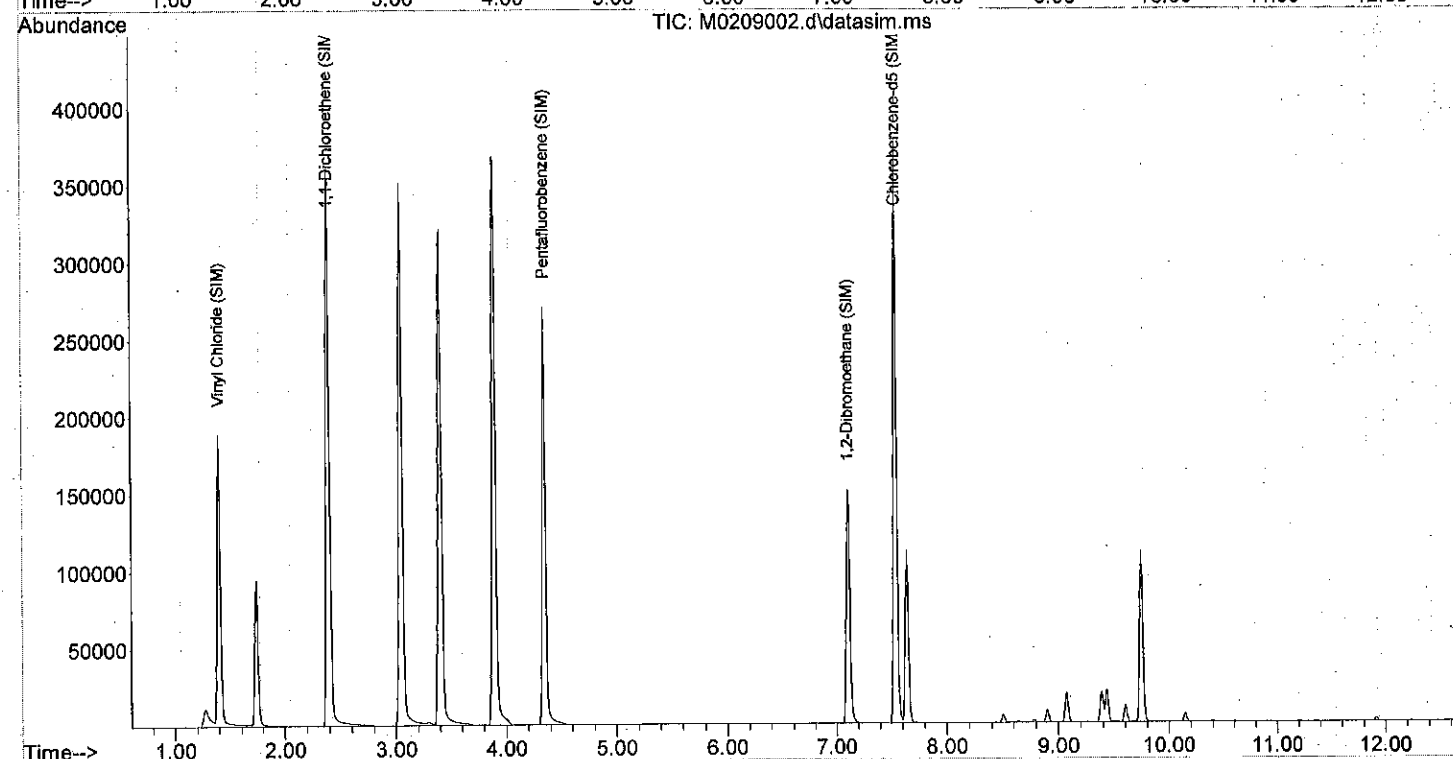
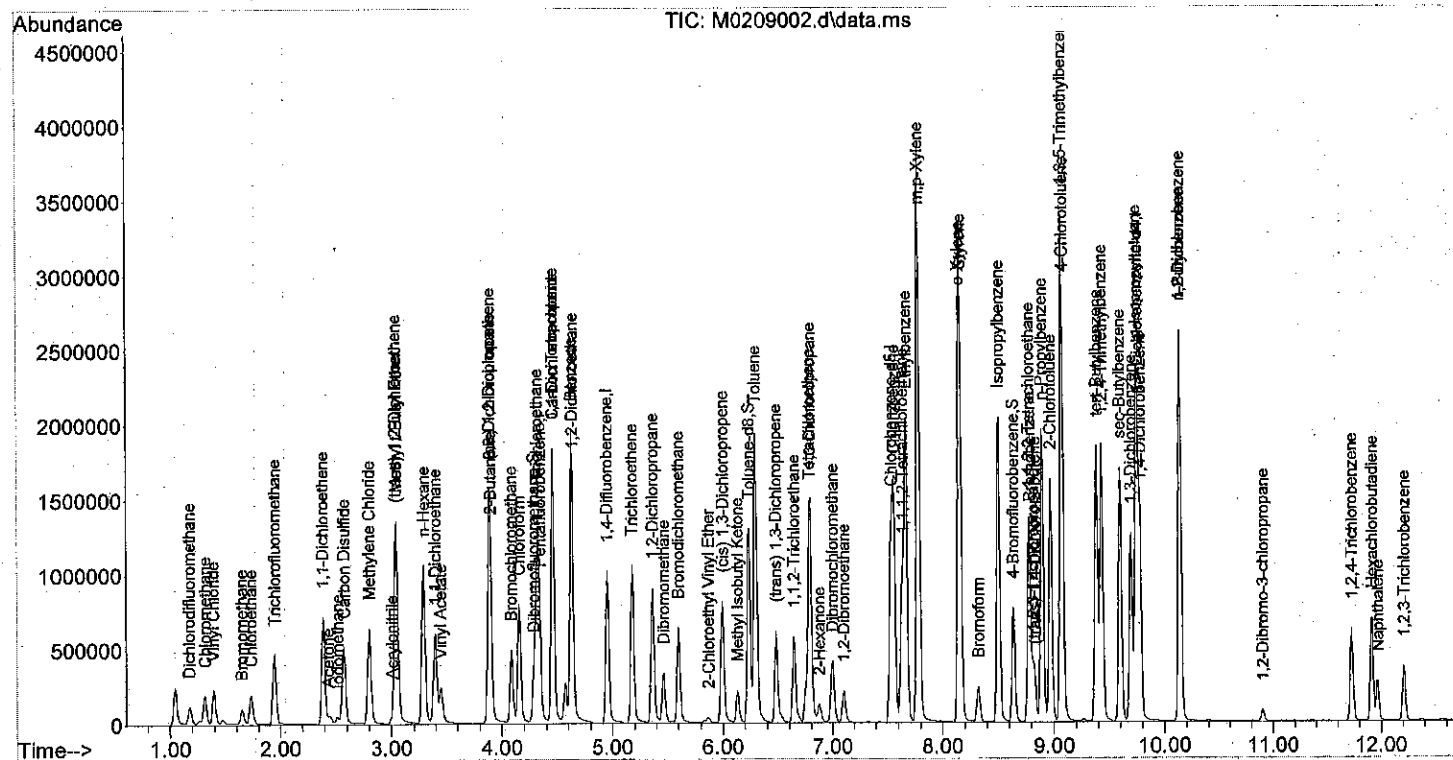
Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Isobutyl Ketone	6.128	43	165200	10.62	ppb	100
42) Toluene	6.291	91	1499715	10.25	ppb	99
44) (trans) 1,3-Dichloropr...	6.479	75	359727	11.07	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	188041	9.70	ppb	100
46) Tetrachloroethene	6.782	166	453898	10.19	ppb	98
47) 1,3-Dichloropropane	6.791	76	392250	10.30	ppb	98
48) 2-Hexanone	6.876	43	108714	10.82	ppb	99
49) Dibromochloromethane	6.999	129	269509	10.98	ppb	99
50) 1,2-Dibromoethane	7.103	107	177838	10.93	ppb	98
51) Chlorobenzene	7.561	112	890497	10.70	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	300533	10.86	ppb	100
53) Ethylbenzene	7.670	91	1667254	10.93	ppb	99
54) m,p-Xylene	7.779	91	2594599	21.97	ppb	100
55) o-Xylene	8.145	91	1270591	10.94	ppb	100
56) Styrene	8.161	104	986589	11.06	ppb	100
57) Bromoform	8.324	173	130067	10.66	ppb	99
58) Isopropylbenzene	8.504	105	1590229	11.22	ppb	100
61) 1,2-Dibromoethane (SIM)	7.100	107	180219	10640.29	ppt	100
63) Bromobenzene	8.784	156	342735	10.74	ppb	99
64) 1,1,2,2-Tetrachloroethane	8.776	83	195324	10.63	ppb	99
65) 1,2,3-Trichloropropane	8.815	75	234375	9.96	ppb #	100
66) (trans) 1,4-Dichloro-2...	8.831	53	54886	11.49	ppb	97
67) n-Propylbenzene	8.893	91	1794257	11.09	ppb	100
68) 2-Chlorotoluene	8.971	126	356323	10.88	ppb	100
69) 4-Chlorotoluene	9.080	126	365320	11.05	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	1257049	11.11	ppb	100
71) tert-Butylbenzene	9.384	119	1203639	10.98	ppb	100
72) 1,2,4-Trimethylbenzene	9.431	105	1242220	11.16	ppb	100
73) sec-Butylbenzene	9.594	105	1416359	11.07	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	621127	10.93	ppb	100
75) p-Isopropyltoluene	9.742	119	1245407	11.17	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	623141	10.77	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	494707	10.64	ppb	99
78) n-Butylbenzene	10.139	91	1077453	11.41	ppb	99
79) 1,2-Dibromo-3-chloropr...	10.903	157	23651	9.94	ppb	99
80) 1,2,4-Trichlorobenzene	11.728	180	226768	11.01	ppb	98
81) Hexachlorobutadiene	11.915	225	162250	10.90	ppb	98
82) Naphthalene	11.970	128	262164	8.57	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	140168	10.16	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209012.d
 Acq On : 9 Feb 2022 3:08 pm
 Operator :
 Sample : 02-096-08g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

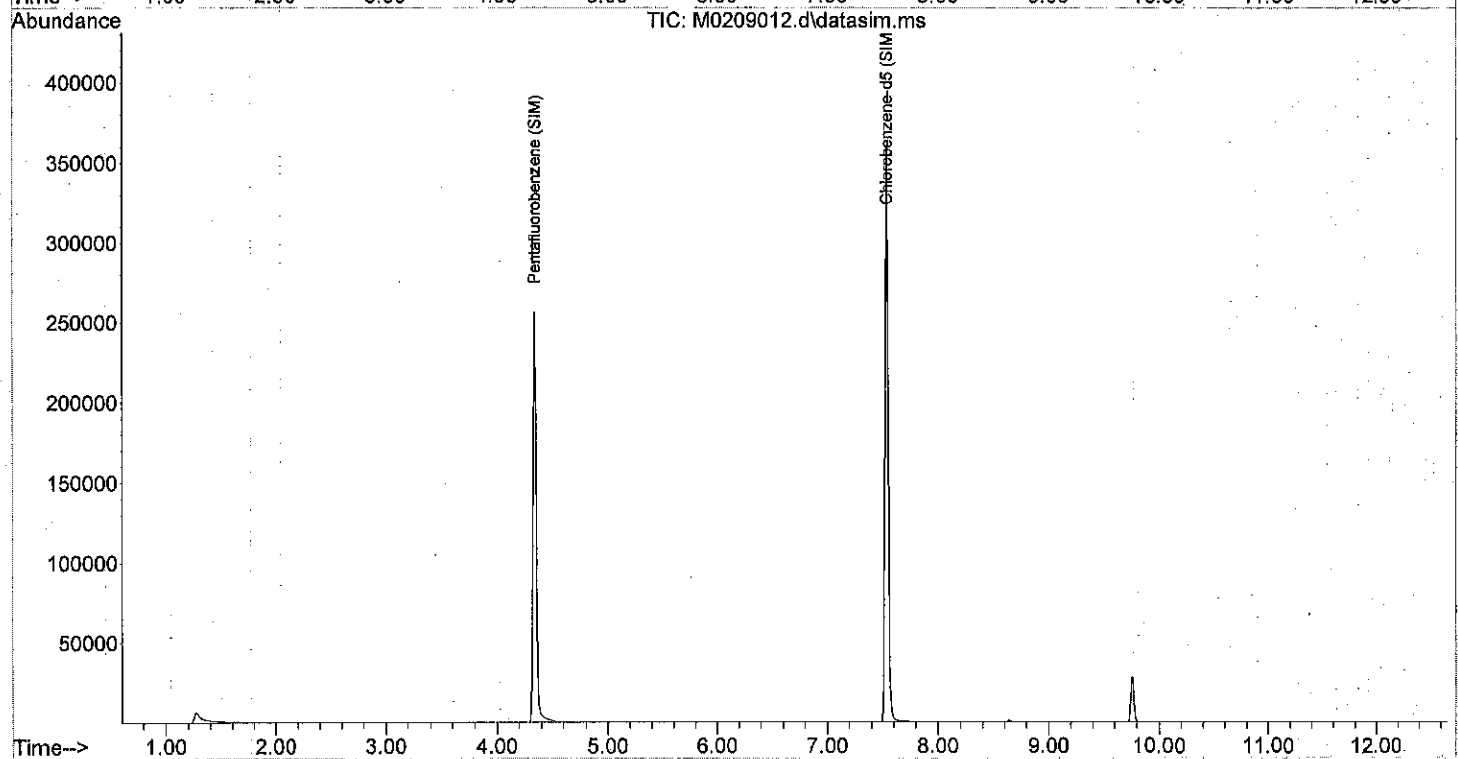
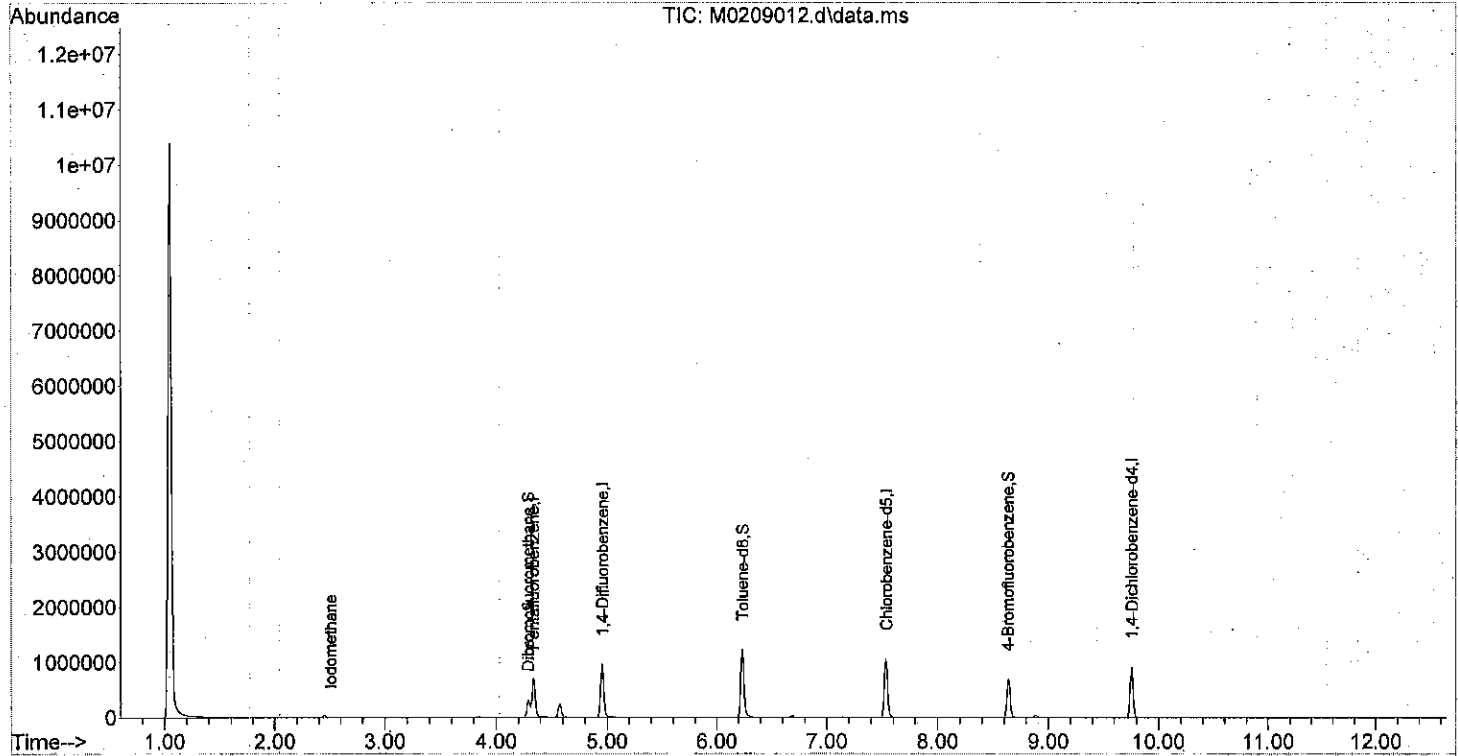
Quant Time: Feb 09 15:35:04 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.334	168	509324	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	526696	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	838774	10.00	ppb	0.00
43) Chlorobenzene-d5	7.538	117	693755	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	716617	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	280132	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	203446	9.68	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	96.80%
41) Toluene-d8	6.237	98	918363	9.90	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.00%
59) 4-Bromofluorobenzene	8.636	95	285200	9.60	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	96.00%
Target Compounds						
10) Iodomethane	2.508	142	432	4.59	ppb	Qvalue # 30

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209012.d
 Acq On : 9 Feb 2022 3:08 pm
 Operator :
 Sample : 02-096-08g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 09 15:35:04 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209004.d
 Acq On : 9 Feb 2022 11:25 am
 Operator :
 Sample : 02-096-08h MS
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 09 11:49:27 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.334	168	518977	10.00	ppb	0.00
30) Pentafluorobenzene (SIM)	4.340	168	538323	10000.00	ppt	0.00
33) 1,4-Difluorobenzene	4.958	114	855577	10.00	ppb	0.00
43) Chlorobenzene-d5	7.530	117	700684	10.00	ppb	0.00
60) Chlorobenzene-d5 (SIM)	7.536	117	717603	10000.00	ppt	0.00
62) 1,4-Dichlorobenzene-d4	9.758	152	284884	10.00	ppb	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	4.287	111	212249	9.91	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	99.10%
41) Toluene-d8	6.237	98	954954	10.09	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.90%
59) 4-Bromofluorobenzene	8.636	95	303137	10.11	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	101.10%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.174	85	118840	6.24	ppb	96
3) Chloromethane	1.316	50	210370	8.51	ppb	99
4) Vinyl Chloride	1.392	62	265045	9.52	ppb	99
5) Bromomethane	1.647	96	86147	18.02	ppb	98
6) Chloroethane	1.732	64	178101	8.71	ppb	100
7) Trichlorofluoromethane	1.941	101	490480	9.25	ppb	100
8) 1,1-Dichloroethene	2.385	61	547029	9.95	ppb	100
9) Acetone	2.433	43	31827	9.54	ppb	99
10) Iodomethane	2.518	142	74102	7.92	ppb	94
11) Carbon Disulfide	2.575	76	767343	8.06	ppb	100
12) Methylene Chloride	2.802	49	448051	9.75	ppb	99
13) Acrylonitrile	3.010	53	52155	10.60	ppb	# 97
14) (trans) 1,2-Dichloroet...	3.038	61	543572	10.15	ppb	100
15) Methyl t-Butyl Ether	3.048	73	606068	10.47	ppb	100
16) n-Hexane	3.294	57	586338	11.85	ppb	99
17) 1,1-Dichloroethane	3.398	63	641861	10.36	ppb	99
18) Vinyl Acetate	3.445	43	373158	9.96	ppb	99
19) 2,2-Dichloropropane	3.890	77	603641	10.80	ppb	100
20) (cis) 1,2-Dichloroethene	3.890	61	691909	10.61	ppb	99
21) 2-Butanone	3.899	43	62577	10.16	ppb	99
22) Bromochloromethane	4.085	130	203383	11.41	ppb	95
23) Chloroform	4.155	83	607220	10.35	ppb	100
24) 1,1,1-Trichloroethane	4.319	97	553041	10.33	ppb	98
26) Carbon Tetrachloride	4.459	117	508325	10.17	ppb	100
27) 1,1-Dichloropropene	4.459	75	478356	9.77	ppb	100
28) Benzene	4.631	78	1351823	10.36	ppb	100
29) 1,2-Dichloroethane	4.638	62	350764	9.99	ppb	98
31] Vinyl Chloride (SIM)	1.398	62	271644	9424.07	ppt	100
32] 1,1-Dichloroethene (SIM)	2.391	61	563025	9948.26	ppt	100
34) Trichloroethene	5.176	130	376788	10.54	ppb	100
35) 1,2-Dichloropropane	5.363	63	346426	10.43	ppb	100
36) Dibromomethane	5.465	174	142171	10.18	ppb	100
37) Bromodichloromethane	5.597	83	417824	10.47	ppb	99
39) (cis) 1,3-Dichloropropene	5.995	75	481253	10.75	ppb	100
40) Methyl Isobutyl Ketone	6.128	43	167283	11.13	ppb	100

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209004.d
 Acq On : 9 Feb 2022 11:25 am
 Operator :
 Sample : 02-096-08h MS
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 4 Sample Multiplier: 1

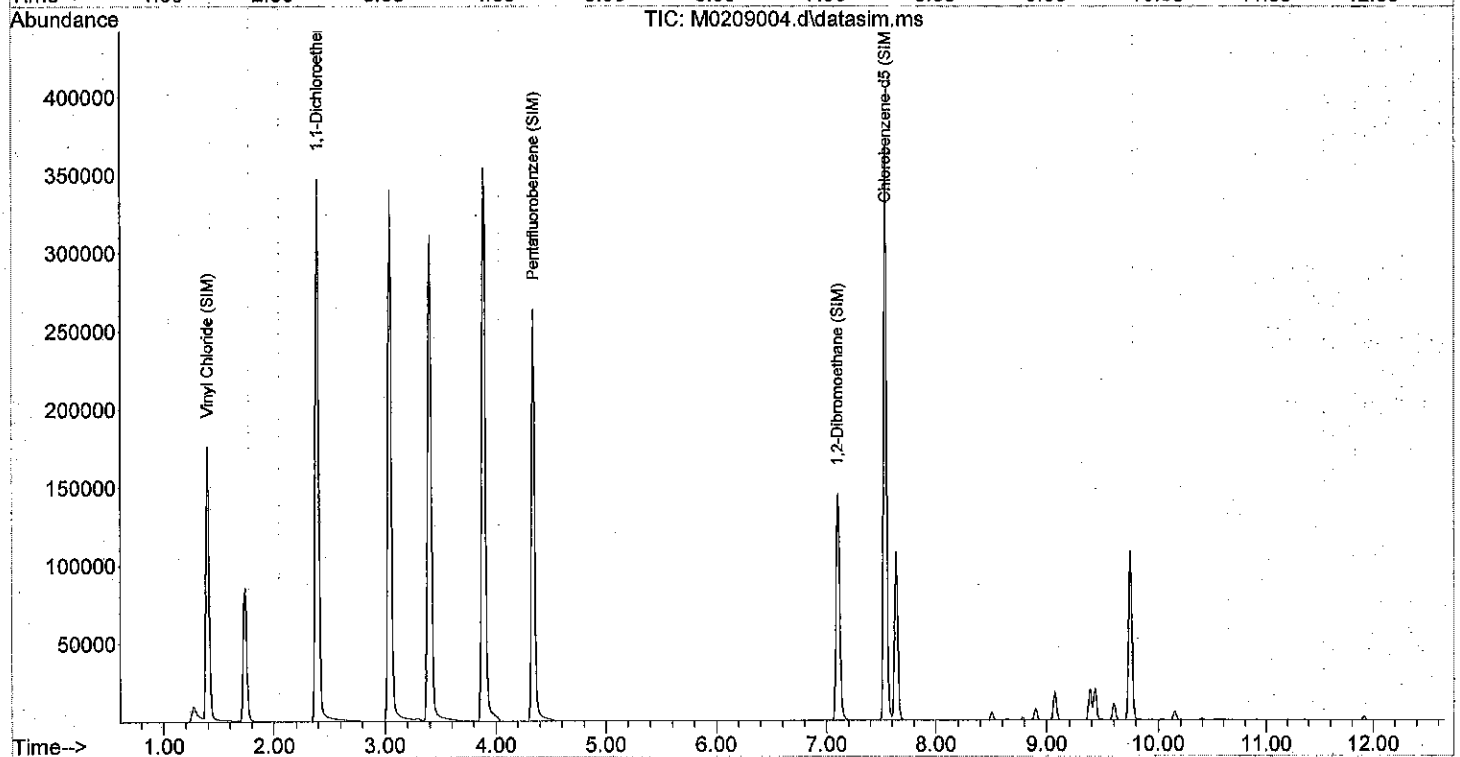
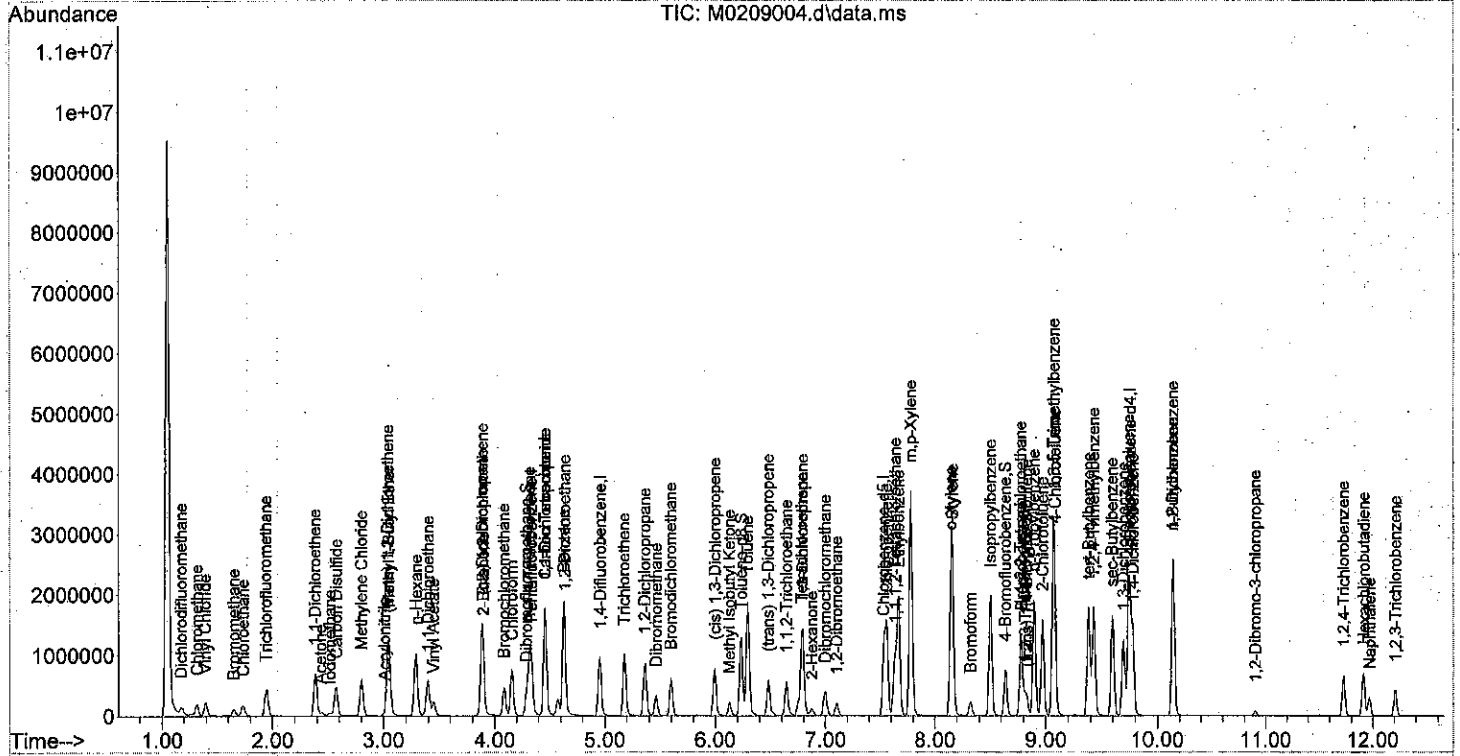
Quant Time: Feb 09 11:49:27 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	6.291	91	1453444	10.28	ppb	99
44) (trans) 1,3-Dichloropr...	6.478	75	347286	10.83	ppb	99
45) 1,1,2-Trichloroethane	6.642	97	184031	9.62	ppb	99
46) Tetrachloroethene	6.781	166	443734	10.09	ppb	98
47) 1,3-Dichloropropane	6.791	76	383109	10.19	ppb	100
48) 2-Hexanone	6.876	43	110241	11.12	ppb	99
49) Dibromochloromethane	6.999	129	257340	10.63	ppb	99
50) 1,2-Dibromoethane	7.103	107	171765	10.69	ppb	97
51) Chlorobenzene	7.561	112	863221	10.51	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	293608	10.75	ppb	99
53) Ethylbenzene	7.670	91	1607897	10.68	ppb	100
54) m,p-Xylene	7.779	91	2499777	21.45	ppb	100
55) o-Xylene	8.145	91	1234118	10.77	ppb	100
56) Styrene	8.161	104	954878	10.84	ppb	100
57) Bromoform	8.324	173	123735	10.28	ppb	100
58) Isopropylbenzene	8.504	105	1534427	10.97	ppb	100
61) 1,2-Dibromoethane (SIM)	7.100	107	174599	10467.85	ppt	100
63) Bromobenzene	8.784	156	332084	10.76	ppb	99
64) 1,1,2,2-Tetrachloroethane	8.776	83	192586	10.84	ppb	98
65) 1,2,3-Trichloropropane	8.815	75	229112	10.07	ppb #	100
66) (trans) 1,4-Dichloro-2...	8.831	53	56116	12.14	ppb	96
67) n-Propylbenzene	8.893	91	1749252	11.18	ppb	100
68) 2-Chlorotoluene	8.971	126	351990	11.11	ppb	99
69) 4-Chlorotoluene	9.080	126	355577	11.12	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	1220428	11.15	ppb	99
71) tert-Butylbenzene	9.384	119	1163196	10.97	ppb	100
72) 1,2,4-Trimethylbenzene	9.431	105	1199227	11.14	ppb	100
73) sec-Butylbenzene	9.594	105	1387845	11.21	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	612718	11.15	ppb	100
75) p-Isopropyltoluene	9.742	119	1223632	11.35	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	603310	10.78	ppb	99
77) 1,2-Dichlorobenzene	10.139	146	488423	10.86	ppb	99
78) n-Butylbenzene	10.139	91	1053069	11.53	ppb	99
79) 1,2-Dibromo-3-chloropr...	10.903	157	23988	10.42	ppb	97
80) 1,2,4-Trichlorobenzene	11.728	180	243665	12.23	ppb	99
81) Hexachlorobutadiene	11.915	225	166328	11.56	ppb	99
82) Naphthalene	11.970	128	303752	10.15	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	164212	12.31	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209004.d
 Acq On : 9 Feb 2022 11:25 am
 Operator :
 Sample : 02-096-08h MS
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 09 11:49:27 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209005.d
 Acq On : 9 Feb 2022 11:52 am
 Operator :
 Sample : 02-096-08i MSD
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 12:27:01 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.342	168	525438	10.00	ppb	0.00	
30) Pentafluorobenzene (SIM)	4.340	168	544498	10000.00	ppt	0.00	
33) 1,4-Difluorobenzene	4.958	114	870062	10.00	ppb	0.00	
43) Chlorobenzene-d5	7.538	117	719034	10.00	ppb	0.00	
60) Chlorobenzene-d5 (SIM)	7.536	117	737194	10000.00	ppt	0.00	
62) 1,4-Dichlorobenzene-d4	9.758	152	297961	10.00	ppb	0.00	
System Monitoring Compounds							
25) Dibromofluoromethane	4.287	111	213094	9.83	ppb	0.00	
Spiked Amount	10.000	Range	75 - 127	Recovery	=	98.30%	
41) Toluene-d8	6.237	98	962540	10.00	ppb	0.00	
Spiked Amount	10.000	Range	80 - 127	Recovery	=	100.00%	
59) 4-Bromofluorobenzene	8.636	95	309998	10.07	ppb	0.00	
Spiked Amount	10.000	Range	78 - 125	Recovery	=	100.70%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.174	85	123481	6.40	ppb		99
3) Chloromethane	1.316	50	217298	8.69	ppb		99
4) Vinyl Chloride	1.392	62	271178	9.62	ppb		99
5) Bromomethane	1.647	96	84543	17.47	ppb		97
6) Chloroethane	1.732	64	184973	8.94	ppb		100
7) Trichlorofluoromethane	1.950	101	505040	9.40	ppb		100
8) 1,1-Dichloroethene	2.385	61	565404	10.16	ppb		100
9) Acetone	2.433	43	32561	9.64	ppb		99
10) Iodomethane	2.518	142	92395	8.69	ppb		96
11) Carbon Disulfide	2.575	76	720162	7.47	ppb		100
12) Methylene Chloride	2.802	49	464536	9.98	ppb		100
13) Acrylonitrile	3.010	53	51044	10.25	ppb	#	98
14) (trans) 1,2-Dichloroet...	3.038	61	561385	10.35	ppb		99
15) Methyl t-Butyl Ether	3.048	73	624643	10.66	ppb		99
16) n-Hexane	3.294	57	593018	11.83	ppb		100
17) 1,1-Dichloroethane	3.398	63	660303	10.53	ppb		99
18) Vinyl Acetate	3.445	43	359346	9.48	ppb		100
19) 2,2-Dichloropropane	3.890	77	602504	10.65	ppb		98
20) (cis) 1,2-Dichloroethene	3.890	61	708123	10.72	ppb		100
21) 2-Butanone	3.899	43	59334	9.51	ppb		99
22) Bromochloromethane	4.085	130	208993	11.58	ppb		95
23) Chloroform	4.155	83	625433	10.53	ppb		99
24) 1,1,1-Trichloroethane	4.319	97	569107	10.50	ppb		98
26) Carbon Tetrachloride	4.459	117	518902	10.25	ppb		99
27) 1,1-Dichloropropene	4.459	75	493695	9.96	ppb		99
28) Benzene	4.631	78	1396947	10.57	ppb		99
29) 1,2-Dichloroethane	4.638	62	369936	10.41	ppb		99
31] Vinyl Chloride (SIM)	1.398	62	279444	9584.73	ppt		100
32] 1,1-Dichloroethene (SIM)	2.391	61	578836	10111.64	ppt		100
34) Trichloroethene	5.176	130	386164	10.63	ppb		99
35) 1,2-Dichloropropane	5.364	63	356432	10.55	ppb		99
36) Dibromomethane	5.465	174	150378	10.59	ppb		99
37) Bromodichloromethane	5.597	83	432393	10.66	ppb		99
39) (cis) 1,3-Dichloropropene	5.995	75	493483	10.84	ppb		99
40) Methyl Isobutyl Ketone	6.128	43	163263	10.68	ppb		98

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209005.d
 Acq On : 9 Feb 2022 11:52 am
 Operator :
 Sample : 02-096-08i MSD
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 5 Sample Multiplier: 1

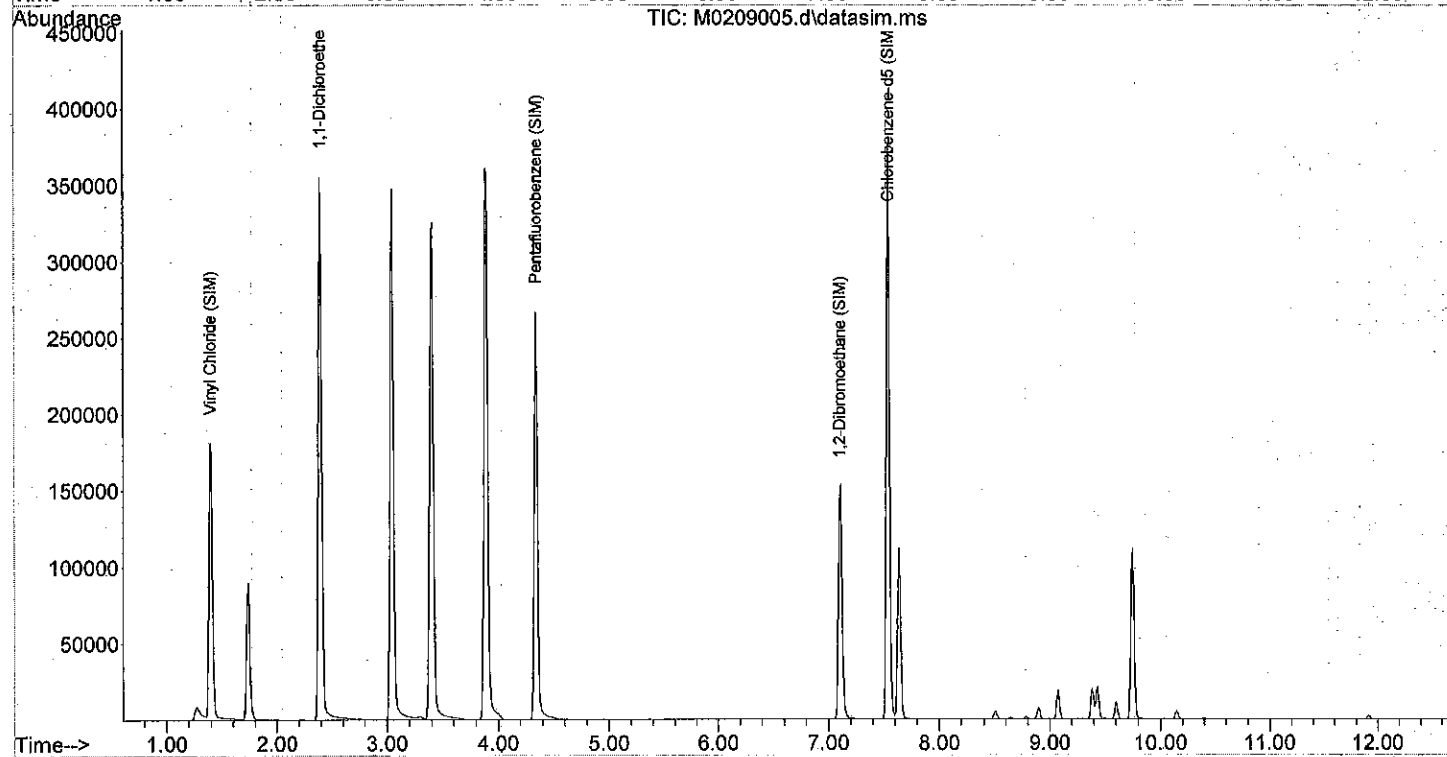
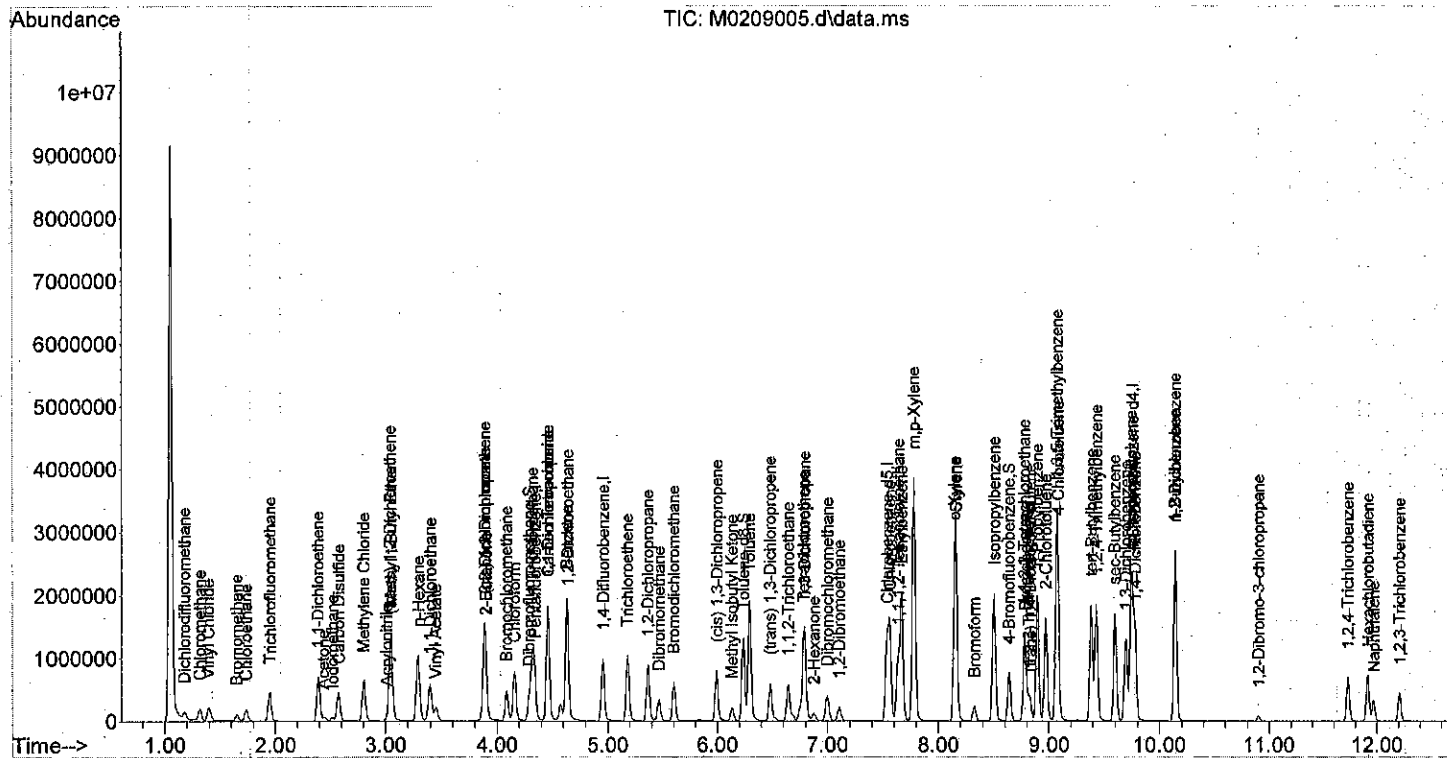
Quant Time: Feb 09 12:27:01 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
42) Toluene	6.291	91	1502750	10.45	ppb	100
44) (trans) 1,3-Dichloropr...	6.479	75	354844	10.79	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	192671	9.81	ppb	98
46) Tetrachloroethene	6.782	166	453626	10.05	ppb	98
47) 1,3-Dichloropropane	6.791	76	398895	10.34	ppb	99
48) 2-Hexanone	6.876	43	106947	10.51	ppb	98
49) Dibromochloromethane	6.999	129	265272	10.68	ppb	99
50) 1,2-Dibromoethane	7.103	107	178127	10.81	ppb	100
51) Chlorobenzene	7.561	112	892568	10.59	ppb	100
52) 1,1,1,2-Tetrachloroethane	7.639	133	302808	10.81	ppb	100
53) Ethylbenzene	7.670	91	1661484	10.76	ppb	99
54) m,p-Xylene	7.779	91	2598933	21.73	ppb	100
55) o-Xylene	8.145	91	1275362	10.84	ppb	100
56) Styrene	8.161	104	988546	10.94	ppb	100
57) Bromoform	8.324	173	127432	10.31	ppb	100
58) Isopropylbenzene	8.504	105	1589581	11.07	ppb	100
61) 1,2-Dibromoethane (SIM)	7.100	107	182329	10640.79	ppt	100
63) Bromobenzene	8.784	156	347136	10.76	ppb	100
64) 1,1,2,2-Tetrachloroethane	8.776	83	201598	10.85	ppb	98
65) 1,2,3-Trichloropropane	8.815	75	233301	9.80	ppb #	100
66) (trans) 1,4-Dichloro-2...	8.831	53	51318	10.62	ppb	100
67) n-Propylbenzene	8.893	91	1800472	11.00	ppb	100
68) 2-Chlorotoluene	8.971	126	363481	10.97	ppb	99
69) 4-Chlorotoluene	9.080	126	369263	11.04	ppb	100
70) 1,3,5-Trimethylbenzene	9.072	105	1257238	10.98	ppb	100
71) tert-Butylbenzene	9.384	119	1201105	10.83	ppb	100
72) 1,2,4-Trimethylbenzene	9.431	105	1243763	11.05	ppb	100
73) sec-Butylbenzene	9.594	105	1432338	11.07	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	640166	11.13	ppb	100
75) p-Isopropyltoluene	9.742	119	1263526	11.21	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	637167	10.89	ppb	99
77) 1,2-Dichlorobenzene	10.139	146	518078	11.02	ppb	100
78) n-Butylbenzene	10.139	91	1087028	11.38	ppb	100
79) 1,2-Dibromo-3-chloropr...	10.903	157	25061	10.41	ppb	98
80) 1,2,4-Trichlorobenzene	11.729	180	256684	12.32	ppb	99
81) Hexachlorobutadiene	11.915	225	170788	11.35	ppb	98
82) Naphthalene	11.970	128	319081	10.19	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	172744	12.38	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209005.d
 Acq On : 9 Feb 2022 11:52 am
 Operator :
 Sample : 02-096-08i MSD
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 12:27:01 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	85	0.00
2	Dichlorodifluoromethane	10.000	6.580	34.2#	65	0.00
3	Chloromethane	10.000	8.451	15.5	84	0.00
4	Vinyl Chloride	10.000	9.617	3.8	83	0.00
5	Bromomethane	10.000	14.397	-44.0#	112	0.00
6	Chloroethane	10.000	9.016	9.8	85	0.00
7	Trichlorofluoromethane	10.000	9.424	5.8	85	0.00
8	1,1-Dichloroethene	10.000	10.088	-0.9	88	0.00
9	Acetone	10.000	8.677	13.2	74	0.00
10	Iodomethane	10.000	8.031	19.7	69	0.00
11	Carbon Disulfide	10.000	8.460	15.4	74	0.00
12	Methylene Chloride	10.000	9.838	1.6	86	0.00
13	Acrylonitrile	10.000	10.075	-0.7	81	0.00
14	(trans) 1,2-Dichloroethene	10.000	10.097	-1.0	88	0.00
15	Methyl t-Butyl Ether	10.000	10.316	-3.2	87	0.00
16	n-Hexane	10.000	11.821	-18.2	101	0.00
17	1,1-Dichloroethane	10.000	10.353	-3.5	89	0.00
18	Vinyl Acetate	10.000	10.099	-1.0	83	0.00
19	2,2-Dichloropropane	10.000	10.762	-7.6	94	0.00
20	(cis) 1,2-Dichloroethene	10.000	10.406	-4.1	89	0.00
21	2-Butanone	10.000	9.775	2.2	84	0.00
22	Bromochloromethane	10.000	10.835	-8.4	87	0.00
23	Chloroform	10.000	10.336	-3.4	89	0.00
24	1,1,1-Trichloroethane	10.000	10.284	-2.8	89	0.00
25 S	Dibromofluoromethane	10.000	9.428	5.7	80	0.00
26	Carbon Tetrachloride	10.000	10.000	0.0	88	0.00
27	1,1-Dichloropropene	10.000	9.740	2.6	89	0.00
28	Benzene	10.000	10.249	-2.5	88	0.00
29	1,2-Dichloroethane	10.000	10.100	-1.0	86	0.00
30	Pentafluorobenzene (SIM)	10000.000	10000.000	0.0	85	0.00
31	Vinyl Chloride (SIM)	10000.000	9689.176	3.1	84	0.00
32	1,1-Dichloroethene (SIM)	10000.000	10067.314	-0.7	87	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	84	0.00
34	Trichloroethene	10.000	10.555	-5.5	90	0.00
35	1,2-Dichloropropane	10.000	10.404	-4.0	89	0.00
36	Dibromomethane	10.000	10.366	-3.7	87	0.00
37	Bromodichloromethane	10.000	10.641	-6.4	89	0.00
38	2-Chloroethyl Vinyl Ether	10.000	8.382	16.2	70	0.00
39	(cis) 1,3-Dichloropropene	10.000	10.774	-7.7	88	0.00
40	Methyl Isobutyl Ketone	10.000	10.624	-6.2	88	0.00
41 S	Toluene-d8	10.000	9.879	1.2	83	0.00
42	Toluene	10.000	10.249	-2.5	90	0.00
43 I	Chlorobenzene-d5	10.000	10.000	0.0	82	0.00
44	(trans) 1,3-Dichloropropene	10.000	11.073	-10.7	88	0.00
45	1,1,2-Trichloroethane	10.000	9.697	3.0	87	0.00

Evaluate Continuing Calibration Report

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Min. RRF : 20.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
46	Tetrachloroethene	10.000	10.188	-1.9	89	0.00
47	1,3-Dichloropropane	10.000	10.299	-3.0	87	0.00
48	2-Hexanone	10.000	10.823	-8.2	90	0.00
49	Dibromochloromethane	10.000	10.985	-9.8	88	0.00
50	1,2-Dibromoethane	10.000	10.928	-9.3	88	0.00
51	Chlorobenzene	10.000	10.704	-7.0	90	0.00
52	1,1,1,2-Tetrachloroethane	10.000	10.862	-8.6	89	0.00
53	Ethylbenzene	10.000	10.930	-9.3	92	0.00
54	m,p-Xylene	20.000	21.973	-9.9	91	0.00
55	o-Xylene	10.000	10.938	-9.4	91	0.00
56	Styrene	10.000	11.058	-10.6	90	0.00
57	Bromoform	10.000	10.661	-6.6	89	0.00
58	Isopropylbenzene	10.000	11.219	-12.2	92	0.00
59 S	4-Bromofluorobenzene	10.000	9.969	0.3	82	0.00
60	Chlorobenzene-d5 (SIM)	10000.000	10000.000	0.0	82	0.00
61	1,2-Dibromoethane (SIM)	10000.000	10640.293	-6.4	86	0.00
62 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	81	0.00
63	Bromobenzene	10.000	10.743	-7.4	89	0.00
64	1,1,2,2-Tetrachloroethane	10.000	10.630	-6.3	88	0.00
65	1,2,3-Trichloropropane	10.000	9.962	0.4	88	0.00
66	(trans) 1,4-Dichloro-2-bute	10.000	11.489	-14.9	87	0.00
67	n-Propylbenzene	10.000	11.092	-10.9	93	0.00
68	2-Chlorotoluene	10.000	10.879	-8.8	91	0.00
69	4-Chlorotoluene	10.000	11.049	-10.5	92	0.00
70	1,3,5-Trimethylbenzene	10.000	11.106	-11.1	92	0.00
71	tert-Butylbenzene	10.000	10.975	-9.7	92	0.00
72	1,2,4-Trimethylbenzene	10.000	11.160	-11.6	92	0.00
73	sec-Butylbenzene	10.000	11.068	-10.7	92	0.00
74	1,3-Dichlorobenzene	10.000	10.929	-9.3	90	0.00
75	p-Isopropyltoluene	10.000	11.173	-11.7	92	0.00
76	1,4-Dichlorobenzene	10.000	10.771	-7.7	91	0.00
77	1,2-Dichlorobenzene	10.000	10.640	-6.4	88	0.00
78	n-Butylbenzene	10.000	11.408	-14.1	93	0.00
79	1,2-Dibromo-3-chloropropane	10.000	9.937	0.6	82	0.00
80	1,2,4-Trichlorobenzene	10.000	11.009	-10.1	85	0.00
81	Hexachlorobutadiene	10.000	10.903	-9.0	94	0.00
82	Naphthalene	10.000	8.572	14.3	79	0.00
83	1,2,3-Trichlorobenzene	10.000	10.164	-1.6	79	0.00

(#) = Out of Range

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

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.342	168	538508	10.00	ppb	0.00	
30) Pentafluorobenzene (SIM)	4.340	168	553499	10000.00	ppt	0.00	
33) 1,4-Difluorobenzene	4.950	114	885126	10.00	ppb	0.00	
43) Chlorobenzene-d5	7.538	117	709980	10.00	ppb	0.00	
60) Chlorobenzene-d5 (SIM)	7.536	117	728697	10000.00	ppt	0.00	
62) 1,4-Dichlorobenzene-d4	9.758	152	294554	10.00	ppb	0.00	
System Monitoring Compounds							
25) Dibromofluoromethane	4.287	111	209484	9.43	ppb	0.00	
Spiked Amount	10.000	Range	75 - 127	Recovery	=	94.30%	
41) Toluene-d8	6.237	98	966977	9.88	ppb	0.00	
Spiked Amount	10.000	Range	80 - 127	Recovery	=	98.80%	
59) 4-Bromofluorobenzene	8.636	95	302986	9.97	ppb	0.00	
Spiked Amount	10.000	Range	78 - 125	Recovery	=	99.70%	
Target Compounds							
2) Dichlorodifluoromethane	1.174	85	130085	6.58	ppb	98	
3) Chloromethane	1.316	50	216655	8.45	ppb	99	
4) Vinyl Chloride	1.392	62	277916	9.62	ppb	98	
5) Bromomethane	1.647	96	71348	14.40	ppb	96	
6) Chloroethane	1.732	64	191277	9.02	ppb	98	
7) Trichlorofluoromethane	1.950	101	518741	9.42	ppb	100	
8) 1,1-Dichloroethene	2.385	61	575434	10.09	ppb	99	
9) Acetone	2.433	43	30043	8.68	ppb	100	
10) Iodomethane	2.518	142	79545m	8.03	ppb		
11) Carbon Disulfide	2.575	76	835734	8.46	ppb	99	
12) Methylene Chloride	2.802	49	469206	9.84	ppb	100	
13) Acrylonitrile	3.010	53	51444	10.08	ppb	# 97	
14) (trans) 1,2-Dichloroet...	3.038	61	561270	10.10	ppb	100	
15) Methyl t-Butyl Ether	3.048	73	619642	10.32	ppb	99	
16) n-Hexane	3.294	57	607123	11.82	ppb	100	
17) 1,1-Dichloroethane	3.398	63	665430	10.35	ppb	100	
18) Vinyl Acetate	3.445	43	392415	10.10	ppb	99	
19) 2,2-Dichloropropane	3.890	77	623860	10.76	ppb	100	
20) (cis) 1,2-Dichloroethene	3.890	61	704458	10.41	ppb	100	
21) 2-Butanone	3.899	43	62473	9.78	ppb	98	
22) Bromochloromethane	4.085	130	200382	10.83	ppb	99	
23) Chloroform	4.155	83	628962	10.34	ppb	100	
24) 1,1,1-Trichloroethane	4.319	97	571462	10.28	ppb	100	
26) Carbon Tetrachloride	4.459	117	518650	10.00	ppb	99	
27) 1,1-Dichloropropene	4.459	75	494599	9.74	ppb	100	
28) Benzene	4.631	78	1388156	10.25	ppb	100	
29) 1,2-Dichloroethane	4.638	62	367847	10.10	ppb	99	
31] Vinyl Chloride (SIM)	1.398	62	287159	9689.18	ppt	99	
32] 1,1-Dichloroethene (SIM)	2.391	61	585825	10067.31	ppt	100	
34) Trichloroethene	5.176	130	390189	10.56	ppb	100	
35) 1,2-Dichloropropane	5.364	63	357448	10.40	ppb	99	
36) Dibromomethane	5.465	174	149791	10.37	ppb	99	
37) Bromodichloromethane	5.597	83	439174	10.64	ppb	100	
38) 2-Chloroethyl Vinyl Ether	5.870	63	18037	8.38	ppb	98	
39) (cis) 1,3-Dichloropropene	5.995	75	498821	10.77	ppb	100	

SP
2/10/22

Data Path : X:\VOLATILE\MORRIS\DATA\M220209\
 Data File : M0209002.d
 Acq On : 9 Feb 2022 10:24 am
 Operator :
 Sample : SB0209W1 (CCV0209W1)
 Misc : V4-088-14/V4-087-26/V4-089-12/V4-089-01
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 10:53:15 2022
 Quant Method : C:\MSDCHEM\1\METHODS\M220204WSIMH.M
 Quant Title :
 QLast Update : Fri Feb 04 16:59:34 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Isobutyl Ketone	6.128	43	165200	10.62	ppb	100
42) Toluene	6.291	91	1499715	10.25	ppb	99
44) (trans) 1,3-Dichloropr...	6.479	75	359727	11.07	ppb	100
45) 1,1,2-Trichloroethane	6.642	97	188041	9.70	ppb	100
46) Tetrachloroethene	6.782	166	453898	10.19	ppb	98
47) 1,3-Dichloropropane	6.791	76	392250	10.30	ppb	98
48) 2-Hexanone	6.876	43	108714	10.82	ppb	99
49) Dibromochloromethane	6.999	129	269509	10.98	ppb	99
50) 1,2-Dibromoethane	7.103	107	177838	10.93	ppb	98
51) Chlorobenzene	7.561	112	890497	10.70	ppb	99
52) 1,1,1,2-Tetrachloroethane	7.639	133	300533	10.86	ppb	100
53) Ethylbenzene	7.670	91	1667254	10.93	ppb	99
54) m,p-Xylene	7.779	91	2594599	21.97	ppb	100
55) o-Xylene	8.145	91	1270591	10.94	ppb	100
56) Styrene	8.161	104	986589	11.06	ppb	100
57) Bromoform	8.324	173	130067	10.66	ppb	99
58) Isopropylbenzene	8.504	105	1590229	11.22	ppb	100
61) 1,2-Dibromoethane (SIM)	7.100	107	180219	10640.29	ppt	100
63) Bromobenzene	8.784	156	342735	10.74	ppb	99
64) 1,1,2,2-Tetrachloroethane	8.776	83	195324	10.63	ppb	99
65) 1,2,3-Trichloropropane	8.815	75	234375	9.96	ppb	# 100
66) (trans) 1,4-Dichloro-2...	8.831	53	54886	11.49	ppb	97
67) n-Propylbenzene	8.893	91	1794257	11.09	ppb	100
68) 2-Chlorotoluene	8.971	126	356323	10.88	ppb	100
69) 4-Chlorotoluene	9.080	126	365320	11.05	ppb	99
70) 1,3,5-Trimethylbenzene	9.072	105	1257049	11.11	ppb	100
71) tert-Butylbenzene	9.384	119	1203639	10.98	ppb	100
72) 1,2,4-Trimethylbenzene	9.431	105	1242220	11.16	ppb	100
73) sec-Butylbenzene	9.594	105	1416359	11.07	ppb	100
74) 1,3-Dichlorobenzene	9.695	146	621127	10.93	ppb	100
75) p-Isopropyltoluene	9.742	119	1245407	11.17	ppb	100
76) 1,4-Dichlorobenzene	9.781	146	623141	10.77	ppb	100
77) 1,2-Dichlorobenzene	10.139	146	494707	10.64	ppb	99
78) n-Butylbenzene	10.139	91	1077453	11.41	ppb	99
79) 1,2-Dibromo-3-chloropr...	10.903	157	23651	9.94	ppb	99
80) 1,2,4-Trichlorobenzene	11.728	180	226768	11.01	ppb	98
81) Hexachlorobutadiene	11.915	225	162250	10.90	ppb	98
82) Naphthalene	11.970	128	262164	8.57	ppb	100
83) 1,2,3-Trichlorobenzene	12.211	180	140168	10.16	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Total Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02-2022 February\I220211W1.wszf

Creation Date: 2/11/2022 10:00:20 AM

Comment:

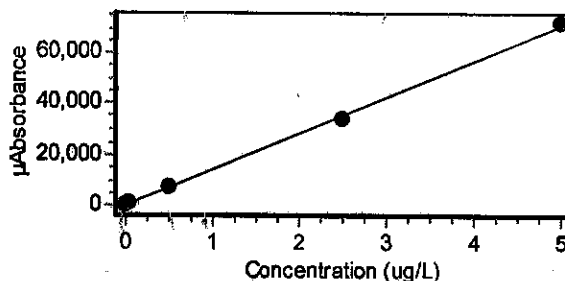
Kom
2-11-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/11/22 12:40:35 pm	0.00000	226	6.38			N/A
Standard #1	STD	02/11/22 12:43:06 pm	0.01000	388	0.21	14.93%		N/A
Standard #2	STD	02/11/22 12:45:38 pm	0.05000	922	0.60	-1.08%		N/A
Standard #3	STD	02/11/22 12:48:10 pm	0.50000	7262	0.26	0.01%		N/A
Standard #4	STD	02/11/22 12:50:43 pm	2.50000	33594	0.56	-5.14%		N/A
Standard #5	STD	02/11/22 12:53:15 pm	5.00000	71482	0.39	1.29%		N/A

Calibration

Equation: Abs = 14070.443x + 226.086
 R2: 0.99890 RSE: 9.17%
 SEE: 1167.3500
 Flags:



ICV	ICV	02/11/22 12:56:42 pm	2.79500	39553	0.21			111.80
ICV	ICV	02/11/22 12:59:27 pm	2.60880	36933	0.38			104.35
ICB	ICB	02/11/22 01:03:32 pm	0.00209	256	27.92			N/A
CCV	CCV	02/11/22 01:06:04 pm	2.50870	35524	0.35			100.35
CCB	CCB	02/11/22 01:08:36 pm	0.00179	251	32.29			N/A
MB0211W1	UNK	02/11/22 01:11:07 pm	0.00353	276	20.65			N/A
SB0211W1	UNK	02/11/22 01:13:39 pm	2.43830	34535	0.50			N/A
02-068-02c	UNK	02/11/22 01:16:11 pm	0.00347	275	15.81			N/A
02-068-02cD	UNK	02/11/22 01:18:43 pm	0.00544	303	21.49			N/A
02-068-02c L	UNK	02/11/22 01:21:15 pm	0.00274	265	20.60			N/A
02-068-02c MS	UNK	02/11/22 01:23:48 pm	2.44500	34629	0.34			N/A
02-068-02c MSD	UNK	02/11/22 01:26:20 pm	2.41150	34157	0.36			N/A
02-068-01c	UNK	02/11/22 01:28:54 pm	0.00168	250	56.10			N/A
02-068-03c	UNK	02/11/22 01:31:25 pm	0.00506	297	12.06			N/A
02-068-04c	UNK	02/11/22 01:33:57 pm	0.00461	291	12.25			N/A
CCV	CCV	02/11/22 01:36:29 pm	2.51340	35590	0.26			100.53
CCB	CCB	02/11/22 01:39:01 pm	0.00336	273	30.05			N/A
02-068-05c	UNK	02/11/22 01:41:33 pm	0.00558	305	6.30			N/A
02-068-06c	UNK	02/11/22 01:44:05 pm	0.00580	308	22.24			N/A
02-092-01c	UNK	02/11/22 01:50:45 pm	0.00674	321	9.06			N/A
02-092-02c	UNK	02/11/22 01:53:18 pm	0.00628	314	16.88			N/A
02-067-06d	UNK	02/11/22 01:55:51 pm	0.03320	693	2.18			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
02-067-07c	UNK	02/11/22 01:58:23 pm	0.01630	455	2.66			N/A
02-023-28e	UNK	02/11/22 02:00:55 pm	0.00469	292	26.85			N/A
CCV	CCV	02/11/22 02:03:27 pm	2.50470	35468	0.25			100.19
CCB	CCB	02/11/22 02:05:59 pm	0.00435	287	19.01			N/A
02-070-02	UNK	02/11/22 02:08:31 pm	0.03453	712	2.08			N/A
02-070-03	UNK	02/11/22 02:11:23 pm	0.02775	617	3.75			N/A
CCB	CCB	02/11/22 02:13:54 pm	0.00369	278	19.74			N/A
CCV	CCV	02/11/22 02:16:26 pm	2.34020	33154	0.16			93.61
CCB	CCB	02/11/22 02:18:58 pm	0.00310	270	17.86			N/A
MB0211D1	UNK	02/11/22 02:34:25 pm	2.40800	34107	0.40			N/A
SB0211D1	UNK	02/11/22 02:37:18 pm	0.00130	244	83.19			N/A
02-061-01d	UNK	02/11/22 02:43:33 pm	0.00586	309	12.63			N/A
02-061-01d D	UNK	02/11/22 02:46:05 pm	0.00493	296	11.63			N/A
02-061-01d L	UNK	02/11/22 02:48:38 pm	0.00083	238	86.02			N/A
02-061-01d MS	UNK	02/11/22 02:51:10 pm	2.37060	33581	0.32			N/A
02-061-01d MSD	UNK	02/11/22 02:53:43 pm	2.38630	33802	0.47			N/A
02-061-02d	UNK	02/11/22 02:56:16 pm	0.00282	266	41.26			N/A
02-061-03d	UNK	02/11/22 02:58:47 pm	0.00356	278	19.76			N/A
02-061-04d	UNK	02/11/22 03:01:19 pm	0.00295	268	28.60			N/A
CCV	CCV	02/11/22 03:03:51 pm	2.49270	35299	0.24			99.71
CCB	CCB	02/11/22 03:06:23 pm	0.00254	262	4.32			N/A
02-061-05d	UNK	02/11/22 03:10:14 pm	0.00473	293	28.74			N/A
02-061-06d	UNK	02/11/22 03:12:47 pm	0.00499	296	14.70			N/A
02-092-01d	UNK	02/11/22 03:15:19 pm	0.00437	288	12.14			N/A
02-091-02d	UNK	02/11/22 03:17:52 pm	0.00552	304	14.60			N/A
CCV	CCV	02/11/22 03:20:24 pm	2.49250	35296	0.23			99.70
CCB	CCB	02/11/22 03:24:15 pm	0.00363	277	12.47			N/A
MDL 1	UNK	02/11/22 03:26:48 pm	-0.00009	225	781.07			N/A
MDL 2	UNK	02/11/22 03:29:20 pm	-0.00029	222	179.58			N/A
MDL 3	UNK	02/11/22 03:33:29 pm	-0.00025	223	106.67			N/A
MDL 4	UNK	02/11/22 03:36:01 pm	-0.00048	219	72.89			N/A

Dataset Report

2-10-22
KPM

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220210A\
 Report Date/Time: Thursday, February 10, 2022 12:04:26

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - T	Torch Alignment	07:31:35 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Torch Alignment.001	Torch Alignment
SmartTune - N	Nebulizer Gas Flow S	07:32:34 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Nebulizer Gas Flow STD-KF	Nebulizer Gas Flow STD-KF
SmartTune - A	AutoLens STD/DRC	07:35:00 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\AutoLens STD-DRC.003	AutoLens STD-DRC
SmartTune - K	KED Mode AutoLens	07:44:58 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\KED Mode AutoLens.004	KED Mode AutoLens
SmartTune - C	Daily Performance Ch	07:49:47 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Daily Performance Check.01	Daily Performance Check
SmartTune - C	Daily Performance Ch	07:52:14 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Daily Performance Check.01	Daily Performance Check
SmartTune - M	Mass Calibration and	07:54:36 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Mass Calibration and Resol	Mass Calibration and Resol
SmartTune - M	Mass Calibration and	07:56:46 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Mass Calibration and Resol	Mass Calibration and Resol
	Sample	08:04:52 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Sample.009	Sample
	Sample	08:08:05 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Sample.010	Sample
	Sample	08:13:42 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Sample.011	Sample
	Blank	08:19:19 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Blank.012	Blank
	Standard 1	08:24:06 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 1.013	Standard 1
	Standard 2	08:28:52 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 2.014	Standard 2
	Standard 3	08:33:39 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 3.015	Standard 3
	Standard 4	08:38:26 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 4.016	Standard 4
	Standard 5	08:43:13 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 5.017	Standard 5
	Standard 6	08:48:00 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 6.018	Standard 6
	Standard 7	08:52:48 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\Standard 7.019	Standard 7
	QC Std 1	09:04:01 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 1.021	QC Std 1
	QC Std 2	09:09:38 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 2.022	QC Std 2
	QC Std 6	09:15:14 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.023	QC Std 6
	QC Std 7	09:20:50 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.024	QC Std 7
	QC Std 8	09:26:27 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.025	QC Std 8
	MB0210WM1 2X	09:32:07 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\MB0210WM1 2X.026	MB0210WM1 2X
	SB0210WM1 2X	09:37:44 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\SB0210WM1 2X.027	SB0210WM1 2X
	02-092-01c 2X	09:43:20 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01c 2X.028	02-092-01c 2X
	02-092-01cD 2X	09:48:54 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cD 2X.029	02-092-01cD 2X
	02-092-01cL 10X	09:54:29 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cL 10X.030	02-092-01cL 10X
	02-092-01cMS 2X	10:00:04 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMS 2X.031	02-092-01cMS 2X
	02-092-01cMSD 2X	10:05:39 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMSD 2X.032	02-092-01cMSD 2X
	02-092-01cPS 2X	10:11:16 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cPS 2X.033	02-092-01cPS 2X
	02-092-02c 2X	10:16:53 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-092-02c 2X.034	02-092-02c 2X
	02-068-01c 2X	10:22:29 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-01c 2X.035	02-068-01c 2X
	QC Std 6	10:28:06 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.036	QC Std 6
	QC Std 7	10:33:42 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.037	QC Std 7
	QC Std 8	10:39:19 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.038	QC Std 8
	02-068-02c 2X	10:45:15 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-02c 2X.039	02-068-02c 2X
	02-068-03c 2X	10:50:51 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-03c 2X.040	02-068-03c 2X
	02-068-04c 2X	10:56:27 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-04c 2X.041	02-068-04c 2X
	02-068-05c 2X	11:02:02 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-05c 2X.042	02-068-05c 2X
	02-068-06c 2X	11:07:37 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-068-06c 2X.043	02-068-06c 2X
	02-067-06d 2X	11:13:12 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-067-06d 2X.044	02-067-06d 2X
	02-067-07d 2X	11:18:47 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-067-07d 2X.045	02-067-07d 2X
	02-023-28e 2X	11:24:21 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\02-023-28e 2X.046	02-023-28e 2X
	QC Std 6	11:36:12 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.048	QC Std 6
	QC Std 7	11:47:56 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.050	QC Std 7
	QC Std 8	11:53:32 Thu	10-F	C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.051	QC Std 8

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, February 10, 2022 08:19:19

Report Date/Time: Thursday, February 10, 2022 12:02:32

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Blank.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381360.5	1.4				ug/L		Standard
|	Cr	52	3452.4	2.3				ug/L		Standard
|	Cr	53	126.3	7.7				ug/L		Standard
[>	Ge	72	219213.6	2.8				ug/L		Standard
|	As	75	2513.3	0.8				ug/L		Standard
|	As-1	75	125.7	10.3				ug/L		Standard
|	Se	77	34.7	23.5				ug/L		Standard
|	Se	78	2970.6	1.0				ug/L		Standard
|	Br	79	172.3	7.2				ug/L		Standard
|	Se	82	85.0	6.2				ug/L		Standard
|	Kr	83	76.0	6.0				ug/L		Standard
|	Y	89	616649.9	2.9				ug/L		Standard
|	Rh	103	500173.2	0.9				ug/L		Standard
|	Cd	111	334.0	8.3				ug/L		Standard
|	Cd	114	22.8	55.1				ug/L		Standard
[>	In	115	346567.2	1.8				ug/L		Standard
[>	Tb	159	442198.2	1.2				ug/L		Standard
|	Ho	165	448954.2	1.3				ug/L		Standard
|	Pb	208	592.7	7.5				ug/L		Standard
|	Bi	209	303890.0	0.7				ug/L		Standard
|	Th	232	414939.3	1.4				ug/L		Standard
|	Cr-1	52	44.0	20.2				ug/L		KED
|	Cr-1	53	6.3	36.5				ug/L		KED
[>	Ge-1	72	5482.7	0.2				ug/L		KED
|	As-2	75	0.0					ug/L		KED
|	Y-1	89	9215.6	1.9				ug/L		KED
|	Rh-1	103	66519.9	2.6				ug/L		KED
|	Cd-1	111	2.0	132.3				ug/L		KED
|	Cd-1	114	3.6	73.6				ug/L		KED
[>	In-1	115	5738.0	3.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Thursday, February 10, 2022 12:02:32

Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, February 10, 2022 08:19:19

Report Date/Time: Thursday, February 10, 2022 12:02:50

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Blank.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381360.5	1.4				ug/L		Standard
|	Cr	52	3452.4	2.3				ug/L		Standard
|	Cr	53	126.3	7.7				ug/L		Standard
[>	Ge	72	219213.6	2.8				ug/L		Standard
|	As	75	2513.3	0.8				ug/L		Standard
|	As-1	75	125.7	10.3				ug/L		Standard
|	Se	77	34.7	23.5				ug/L		Standard
|	Se	78	2970.6	1.0				ug/L		Standard
|	Br	79	172.3	7.2				ug/L		Standard
|	Se	82	85.0	6.2				ug/L		Standard
|	Kr	83	76.0	6.0				ug/L		Standard
|	Y	89	616649.9	2.9				ug/L		Standard
|	Rh	103	500173.2	0.9				ug/L		Standard
|	Cd	111	334.0	8.3				ug/L		Standard
|	Cd	114	22.8	55.1				ug/L		Standard
[>	In	115	346567.2	1.8				ug/L		Standard
[>	Tb	159	442198.2	1.2				ug/L		Standard
|	Ho	165	448954.2	1.3				ug/L		Standard
|	Pb	208	592.7	7.5				ug/L		Standard
|	Bi	209	303890.0	0.7				ug/L		Standard
|	Th	232	414939.3	1.4				ug/L		Standard
|	Cr-1	52	44.0	20.2				ug/L		KED
|	Cr-1	53	6.3	36.5				ug/L		KED
[>	Ge-1	72	5482.7	0.2				ug/L		KED
|	As-2	75	0.0					ug/L		KED
|	Y-1	89	9215.6	1.9				ug/L		KED
|	Rh-1	103	66519.9	2.6				ug/L		KED
|	Cd-1	111	2.0	132.3				ug/L		KED
|	Cd-1	114	3.6	73.6				ug/L		KED
[>	In-1	115	5738.0	3.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Thursday, February 10, 2022 12:02:50

Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, February 10, 2022 08:24:06

Report Date/Time: Thursday, February 10, 2022 12:02:52

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 1.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	358073.8	0.7				ug/L	381361	Standard
|	Cr	52	5419.7	4.0				ug/L	3452	Standard
|	Cr	53	352.0	5.2				ug/L	126	Standard
[>	Ge	72	209384.4	2.8				ug/L	219214	Standard
|	As	75	2679.4	3.6				ug/L	2513	Standard
|	As-1	75	284.3	4.6	0.2000	0.016	7.8	ug/L	126	Standard
|	Se	77	50.3	7.0				ug/L	35	Standard
|	Se	78	3012.3	3.9				ug/L	2971	Standard
|	Br	79	140.0	7.9				ug/L	172	Standard
|	Se	82	98.0	4.1				ug/L	85	Standard
|	Kr	83	81.7	15.6				ug/L	76	Standard
|	Y	89	589753.2	2.2				ug/L	616650	Standard
[	Rh	103	468725.2	0.9				ug/L	500173	Standard
|	Cd	111	800.4	4.1	0.2000	0.014	7.1	ug/L	334	Standard
|	Cd	114	1073.3	3.2	0.2000	0.006	3.1	ug/L	23	Standard
[>	In	115	331427.4	1.6				ug/L	346567	Standard
[>	Tb	159	411554.5	1.5				ug/L	442198	Standard
|	Ho	165	416672.2	0.9				ug/L	448954	Standard
|	Pb	208	7472.1	0.9	0.2000	0.003	1.4	ug/L	593	Standard
|	Bi	209	290182.6	0.6				ug/L	303890	Standard
|	Th	232	398216.1	0.8				ug/L	414939	Standard
[	Cr-1	52	183.3	8.2				ug/L	44	KED
|	Cr-1	53	27.0	29.4				ug/L	6	KED
[>	Ge-1	72	5277.0	1.4				ug/L	5483	KED
|	As-2	75	8.7	43.7	0.2000	0.089	44.6	ug/L	0	KED
|	Y-1	89	8793.0	1.1				ug/L	9216	KED
|	Rh-1	103	63706.4	1.2				ug/L	66520	KED
[	Cd-1	111	22.0	9.1	0.2000	0.017	8.3	ug/L	2	KED
|	Cd-1	114	60.2	30.8	0.2000	0.068	33.8	ug/L	4	KED
[>	In-1	115	5508.2	1.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, February 10, 2022 08:28:52

Report Date/Time: Thursday, February 10, 2022 12:02:54

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 2.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	374464.5	1.9				ug/L	381361	Standard
|	Cr	52	8103.3	2.6	0.5000	0.011	2.2	ug/L	3452	Standard
|	Cr	53	637.3	3.8	0.5000	0.012	2.3	ug/L	126	Standard
[>	Ge	72	214058.7	3.0				ug/L	219214	Standard
|	As	75	3012.3	4.6	0.5000	0.107	21.4	ug/L	2513	Standard
|	As-1	75	573.8	7.5	0.5048	0.036	7.0	ug/L	126	Standard
|	Se	77	76.0	9.2	0.5000	0.084	16.7	ug/L	35	Standard
|	Se	78	3196.0	3.4				ug/L	2971	Standard
|	Br	79	135.3	6.8				ug/L	172	Standard
|	Se	82	150.7	2.0	0.5000	0.035	6.9	ug/L	85	Standard
|	Kr	83	89.3	13.0				ug/L	76	Standard
|	Y	89	600431.8	1.3				ug/L	616650	Standard
|	Rh	103	490604.9	1.3				ug/L	500173	Standard
|	Cd	111	1448.2	5.1	0.4950	0.029	5.8	ug/L	334	Standard
|	Cd	114	2678.0	0.9	0.5003	0.002	0.4	ug/L	23	Standard
[>	In	115	333247.1	1.1				ug/L	346567	Standard
[>	Tb	159	416232.5	1.5				ug/L	442198	Standard
|	Ho	165	425739.0	1.2				ug/L	448954	Standard
|	Pb	208	17337.8	1.4	0.4971	0.001	0.2	ug/L	593	Standard
|	Bi	209	291673.0	1.1				ug/L	303890	Standard
|	Th	232	402049.1	1.1				ug/L	414939	Standard
|	Cr-1	52	332.3	2.5	0.5000	0.009	1.9	ug/L	44	KED
|	Cr-1	53	42.3	14.2	0.5000	0.084	16.8	ug/L	6	KED
[>	Ge-1	72	5402.7	0.8				ug/L	5483	KED
|	As-2	75	16.7	15.1	0.4780	0.075	15.8	ug/L	0	KED
|	Y-1	89	9059.5	1.9				ug/L	9216	KED
|	Rh-1	103	65351.2	1.3				ug/L	66520	KED
|	Cd-1	111	57.7	10.6	0.5057	0.055	11.0	ug/L	2	KED
|	Cd-1	114	154.6	3.4	0.5028	0.017	3.4	ug/L	4	KED
[>	In-1	115	5620.9	0.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, February 10, 2022 08:33:39

Report Date/Time: Thursday, February 10, 2022 12:02:56

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 3.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	380566.5	2.9				ug/L	381361	Standard
|	Cr	52	22027.0	3.1	1.9964	0.023	1.2	ug/L	3452	Standard
|	Cr	53	2256.5	5.6	2.0024	0.059	3.0	ug/L	126	Standard
>	Ge	72	221859.5	3.8				ug/L	219214	Standard
|	As	75	4418.0	3.2	1.9728	0.058	2.9	ug/L	2513	Standard
|	As-1	75	2155.2	5.5	2.0118	0.037	1.8	ug/L	126	Standard
|	Se	77	202.7	5.2	1.9949	0.057	2.8	ug/L	35	Standard
|	Se	78	3576.4	2.3	2.0000	0.226	11.3	ug/L	2971	Standard
|	Br	79	139.7	5.6				ug/L	172	Standard
|	Se	82	380.3	7.0	2.0053	0.101	5.0	ug/L	85	Standard
|	Kr	83	84.3	8.4				ug/L	76	Standard
|	Y	89	608116.5	2.1				ug/L	616650	Standard
|	Rh	103	491979.4	1.7				ug/L	500173	Standard
|	Cd	111	4741.9	2.3	1.9906	0.048	2.4	ug/L	334	Standard
|	Cd	114	10669.8	0.5	1.9955	0.011	0.6	ug/L	23	Standard
>	In	115	345246.1	0.2				ug/L	346567	Standard
>	Tb	159	422967.4	0.6				ug/L	442198	Standard
|	Ho	165	427463.4	1.8				ug/L	448954	Standard
|	Pb	208	69324.6	1.2	2.0003	0.016	0.8	ug/L	593	Standard
|	Bi	209	299514.1	1.1				ug/L	303890	Standard
|	Th	232	407970.1	1.1				ug/L	414939	Standard
|	Cr-1	52	1265.7	7.2	2.0035	0.105	5.2	ug/L	44	KED
|	Cr-1	53	162.7	6.6	2.0063	0.124	6.2	ug/L	6	KED
>	Ge-1	72	5537.7	3.4				ug/L	5483	KED
|	As-2	75	54.7	9.2	1.9592	0.178	9.1	ug/L	0	KED
|	Y-1	89	9220.3	2.2				ug/L	9216	KED
|	Rh-1	103	67599.6	2.1				ug/L	66520	KED
|	Cd-1	111	256.3	5.3	2.0130	0.098	4.9	ug/L	2	KED
|	Cd-1	114	662.7	2.7	2.0065	0.066	3.3	ug/L	4	KED
>	In-1	115	5866.7	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Thursday, February 10, 2022 08:38:26

Report Date/Time: Thursday, February 10, 2022 12:02:58

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 4.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	365874.3	1.5				ug/L	381361	Standard
|	Cr	52	47015.6	2.3	4.9827	0.051	1.0	ug/L	3452	Standard
|	Cr	53	5002.9	1.7	4.9661	0.097	2.0	ug/L	126	Standard
>	Ge	72	212429.6	1.4				ug/L	219214	Standard
|	As	75	7054.6	3.3	5.0106	0.147	2.9	ug/L	2513	Standard
|	As-1	75	4916.1	2.1	4.9954	0.038	0.8	ug/L	126	Standard
|	Se	77	404.7	3.2	4.9400	0.153	3.1	ug/L	35	Standard
|	Se	78	4447.0	2.8	5.0894	0.203	4.0	ug/L	2971	Standard
|	Br	79	117.3	11.3				ug/L	172	Standard
|	Se	82	779.7	1.8	4.9953	0.161	3.2	ug/L	85	Standard
|	Kr	83	92.7	2.7				ug/L	76	Standard
|	Y	89	581059.9	1.4				ug/L	616650	Standard
|	Rh	103	469019.9	1.2				ug/L	500173	Standard
|	Cd	111	10647.4	0.5	4.9967	0.031	0.6	ug/L	334	Standard
|	Cd	114	25226.0	0.4	5.0057	0.037	0.7	ug/L	23	Standard
>	In	115	323669.3	0.4				ug/L	346567	Standard
>	Tb	159	401105.1	0.5				ug/L	442198	Standard
|	Ho	165	406917.7	0.1				ug/L	448954	Standard
|	Pb	208	165074.7	0.3	5.0069	0.030	0.6	ug/L	593	Standard
|	Bi	209	280805.7	0.7				ug/L	303890	Standard
|	Th	232	378651.9	0.9				ug/L	414939	Standard
|	Cr-1	52	2850.0	3.3	4.9911	0.116	2.3	ug/L	44	KED
|	Cr-1	53	350.7	5.0	4.9606	0.202	4.1	ug/L	6	KED
>	Ge-1	72	5166.9	1.3				ug/L	5483	KED
|	As-2	75	154.3	4.6	5.1171	0.243	4.8	ug/L	0	KED
|	Y-1	89	8660.0	3.6				ug/L	9216	KED
|	Rh-1	103	62948.4	1.7				ug/L	66520	KED
|	Cd-1	111	563.3	6.0	4.9581	0.402	8.1	ug/L	2	KED
|	Cd-1	114	1486.9	3.4	4.9692	0.123	2.5	ug/L	4	KED
>	In-1	115	5522.5	2.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Thursday, February 10, 2022 12:02:58

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Thursday, February 10, 2022 08:43:13

Report Date/Time: Thursday, February 10, 2022 12:03:00

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 5.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	374014.0	2.8				ug/L	381361	Standard
|	Cr	52	171254.6	2.8	19.9076	0.204	1.0	ug/L	3452	Standard
|	Cr	53	19360.5	5.1	19.9385	0.455	2.3	ug/L	126	Standard
>	Ge	72	215271.5	2.4				ug/L	219214	Standard
|	As	75	20295.4	3.9	19.9347	0.346	1.7	ug/L	2513	Standard
|	As-1	75	19255.7	3.2	19.9772	0.183	0.9	ug/L	126	Standard
|	Se	77	1494.4	3.6	19.9420	0.242	1.2	ug/L	35	Standard
|	Se	78	8363.4	3.6	19.8037	0.441	2.2	ug/L	2971	Standard
|	Br	79	128.0	4.9				ug/L	172	Standard
|	Se	82	2821.6	1.8	19.9547	0.396	2.0	ug/L	85	Standard
|	Kr	83	83.7	14.5				ug/L	76	Standard
|	Y	89	588178.8	1.7				ug/L	616650	Standard
|	Rh	103	475796.7	2.2				ug/L	500173	Standard
|	Cd	111	40713.4	1.6	19.9464	0.310	1.6	ug/L	334	Standard
|	Cd	114	98331.7	0.6	19.9461	0.350	1.8	ug/L	23	Standard
>	In	115	328554.7	1.9				ug/L	346567	Standard
>	Tb	159	405533.0	1.8				ug/L	442198	Standard
|	Ho	165	413021.1	1.3				ug/L	448954	Standard
|	Pb	208	634420.3	2.1	19.9342	0.063	0.3	ug/L	593	Standard
|	Bi	209	288089.6	1.5				ug/L	303890	Standard
|	Th	232	392037.6	1.5				ug/L	414939	Standard
|	Cr-1	52	11292.1	1.3	19.9346	0.199	1.0	ug/L	44	KED
|	Cr-1	53	1346.4	1.7	19.8830	0.241	1.2	ug/L	6	KED
>	Ge-1	72	5414.0	0.7				ug/L	5483	KED
|	As-2	75	572.0	1.2	19.8576	0.195	1.0	ug/L	0	KED
|	Y-1	89	9313.7	1.9				ug/L	9216	KED
|	Rh-1	103	65551.7	0.9				ug/L	66520	KED
|	Cd-1	111	2276.8	3.7	19.9386	0.646	3.2	ug/L	2	KED
|	Cd-1	114	5966.9	2.7	19.9323	0.590	3.0	ug/L	4	KED
>	In-1	115	5790.7	0.6				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Thursday, February 10, 2022 12:03:00

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Thursday, February 10, 2022 08:48:00

Report Date/Time: Thursday, February 10, 2022 12:03:02

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Standard 6.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	366797.9	1.1				ug/L	381361	Standard
|	Cr	52	332179.3	1.6	39.9497	0.232	0.6	ug/L	3452	Standard
|	Cr	53	37609.4	1.1	39.9227	0.035	0.1	ug/L	126	Standard
>	Ge	72	213031.1	1.1				ug/L	219214	Standard
|	As	75	36927.5	1.8	39.7792	0.498	1.3	ug/L	2513	Standard
|	As-1	75	37342.0	1.4	39.8449	0.324	0.8	ug/L	126	Standard
|	Se	77	2837.9	3.1	39.7176	0.886	2.2	ug/L	35	Standard
|	Se	78	13160.1	2.7	39.5026	0.794	2.0	ug/L	2971	Standard
|	Br	79	122.0	4.3				ug/L	172	Standard
|	Se	82	5371.7	1.9	39.7711	0.481	1.2	ug/L	85	Standard
|	Kr	83	93.0	6.7				ug/L	76	Standard
|	Y	89	580800.5	2.7				ug/L	616650	Standard
|	Rh	103	467346.9	1.0				ug/L	500173	Standard
|	Cd	111	78341.2	1.0	39.8416	0.624	1.6	ug/L	334	Standard
|	Cd	114	191275.2	1.6	39.9005	0.184	0.5	ug/L	23	Standard
>	In	115	322434.1	2.0				ug/L	346567	Standard
>	Tb	159	398788.5	1.9				ug/L	442198	Standard
|	Ho	165	402417.8	2.3				ug/L	448954	Standard
|	Pb	208	1235287.0	1.5	39.8915	0.481	1.2	ug/L	593	Standard
|	Bi	209	281995.7	1.9				ug/L	303890	Standard
|	Th	232	385219.8	2.5				ug/L	414939	Standard
|	Cr-1	52	21915.1	0.6	39.7969	1.126	2.8	ug/L	44	KED
|	Cr-1	53	2572.2	1.8	39.6394	0.400	1.0	ug/L	6	KED
>	Ge-1	72	5375.7	2.8				ug/L	5483	KED
|	As-2	75	1138.4	4.9	39.9545	0.837	2.1	ug/L	0	KED
|	Y-1	89	8861.7	2.1				ug/L	9216	KED
|	Rh-1	103	64935.6	1.6				ug/L	66520	KED
|	Cd-1	111	4461.0	2.7	39.7497	1.159	2.9	ug/L	2	KED
|	Cd-1	114	11650.7	1.0	39.7148	0.523	1.3	ug/L	4	KED
>	In-1	115	5828.0	2.3				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 6

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Thursday, February 10, 2022 08:52:48

Report Date/Time: Thursday, February 10, 2022 12:03:03

Method File: C:\NexIONData_kmckinney\MethodX220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSetX220210A\Standard 7.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	376580.4	1.7				ug/L	381361	Standard
|	Cr	52	841460.2	2.4	99.8576	1.317	1.3	ug/L	3452	Standard
|	Cr	53	96199.0	2.8	99.9412	1.882	1.9	ug/L	126	Standard
>	Ge	72	220461.6	3.7				ug/L	219214	Standard
|	As	75	91115.3	2.9	99.7894	0.846	0.8	ug/L	2513	Standard
|	As-1	75	96054.4	2.4	99.8753	1.552	1.6	ug/L	126	Standard
|	Se	77	7321.5	5.0	99.9509	1.883	1.9	ug/L	35	Standard
|	Se	78	28658.4	2.3	99.2010	2.452	2.5	ug/L	2971	Standard
|	Br	79	130.0	3.8				ug/L	172	Standard
|	Se	82	13532.1	0.1	99.6206	3.574	3.6	ug/L	85	Standard
|	Kr	83	106.7	8.0				ug/L	76	Standard
|	Y	89	601769.4	1.7				ug/L	616650	Standard
|	Rh	103	478017.9	1.4				ug/L	500173	Standard
|	Cd	111	196506.0	0.8	99.6862	0.755	0.8	ug/L	334	Standard
|	Cd	114	477089.6	0.7	99.5777	0.135	0.1	ug/L	23	Standard
>	In	115	328963.7	0.7				ug/L	346567	Standard
>	Tb	159	405771.0	1.6				ug/L	442198	Standard
|	Ho	165	412608.9	0.5				ug/L	448954	Standard
|	Pb	208	3115549.2	0.4	99.8144	1.360	1.4	ug/L	593	Standard
|	Bi	209	288652.9	1.0				ug/L	303890	Standard
|	Th	232	397423.3	0.3				ug/L	414939	Standard
|	Cr-1	52	54921.1	1.7	99.3503	1.712	1.7	ug/L	44	KED
|	Cr-1	53	6624.5	1.4	99.7608	1.183	1.2	ug/L	6	KED
>	Ge-1	72	5573.1	1.2				ug/L	5483	KED
|	As-2	75	2816.6	0.9	99.1922	0.601	0.6	ug/L	0	KED
|	Y-1	89	9100.2	2.7				ug/L	9216	KED
|	Rh-1	103	66337.3	0.9				ug/L	66520	KED
|	Cd-1	111	11302.5	2.0	100.2327	2.184	2.2	ug/L	2	KED
|	Cd-1	114	29597.8	0.7	100.2616	1.134	1.1	ug/L	4	KED
>	In-1	115	5789.3	0.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 7

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	Cd	114
>	In	115
>	Tb	159
	Ho	165
	Pb	208
	Bi	209
	Th	232
	Cr-1	52
	Cr-1	53
>	Ge-1	72
	As-2	75
	Y-1	89
	Rh-1	103
|	Cd-1	111
|	Cd-1	114
>	In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, February 10, 2022 09:04:01

Report Date/Time: Thursday, February 10, 2022 12:03:06

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 1.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	418100.8	3.8				ug/L	381361	Standard
|	Cr	52	478069.0	2.5	50.9219	0.785	1.5	ug/L	3452	Standard
|	Cr	53	54267.4	5.8	50.6962	1.300	2.6	ug/L	126	Standard
>	Ge	72	242850.1	3.8				ug/L	219214	Standard
|	As	75	52421.5	4.6	50.7405	0.737	1.5	ug/L	2513	Standard
|	As-1	75	53358.4	3.7	50.2876	0.536	1.1	ug/L	126	Standard
|	Se	77	4138.9	3.8	51.0808	0.847	1.7	ug/L	35	Standard
|	Se	78	17494.4	3.8	49.8046	0.333	0.7	ug/L	2971	Standard
|	Br	79	155.0	6.2				ug/L	172	Standard
|	Se	82	7316.2	0.8	48.5690	1.524	3.1	ug/L	85	Standard
|	Kr	83	104.3	10.9				ug/L	76	Standard
|	Y	89	654084.3	3.5				ug/L	616650	Standard
|	Rh	103	519888.3	2.7				ug/L	500173	Standard
|	Cd	111	108476.2	1.7	50.9565	0.541	1.1	ug/L	334	Standard
|	Cd	114	263112.9	1.8	50.9275	0.289	0.6	ug/L	23	Standard
>	In	115	354710.6	1.5				ug/L	346567	Standard
>	Tb	159	440142.6	2.3				ug/L	442198	Standard
|	Ho	165	449031.8	2.1				ug/L	448954	Standard
|	Pb	208	1702867.1	1.7	50.2850	0.407	0.8	ug/L	593	Standard
|	Bi	209	307652.0	1.6				ug/L	303890	Standard
|	Th	232	425827.5	1.1				ug/L	414939	Standard
|	Cr-1	52	30389.6	1.0	49.6457	1.160	2.3	ug/L	44	KED
|	Cr-1	53	3679.1	1.3	50.0242	0.917	1.8	ug/L	6	KED
>	Ge-1	72	6168.7	3.0				ug/L	5483	KED
|	As-2	75	1541.1	0.7	49.0682	1.851	3.8	ug/L	0	KED
|	Y-1	89	10068.5	1.1				ug/L	9216	KED
|	Rh-1	103	71908.2	0.7				ug/L	66520	KED
|	Cd-1	111	6410.8	1.7	50.7203	0.449	0.9	ug/L	2	KED
|	Cd-1	114	16682.9	1.4	50.4214	0.173	0.3	ug/L	4	KED
>	In-1	115	6487.6	1.2				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.634
|	Cr	52		
|	Cr	53		
>	Ge	72		110.782
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 1

Report Date/Time: Thursday, February 10, 2022 12:03:06

—	Cd	114	
↳	In	115	102.350
↳	Tb	159	99.535
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	112.511
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	113.065

Quantitative Analysis - Summary Report

Sample ID: Qc Std 2

Sample Date/Time: Thursday, February 10, 2022 09:09:38

Report Date/Time: Thursday, February 10, 2022 12:03:09

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\Qc Std 2.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	394100.9	2.3				ug/L	381361	Standard
|	Cr	52	3700.5	3.1	0.0154	0.020	129.0	ug/L	3452	Standard
|	Cr	53	123.7	8.9	-0.0067	0.014	203.8	ug/L	126	Standard
>	Ge	72	232495.2	1.5				ug/L	219214	Standard
|	As	75	2700.4	1.2	0.0373	0.028	74.8	ug/L	2513	Standard
|	As-1	75	113.3	23.6	-0.0194	0.028	144.2	ug/L	126	Standard
|	Se	77	48.7	22.5	0.1562	0.152	97.4	ug/L	35	Standard
|	Se	78	3184.7	1.6	0.1249	0.077	61.6	ug/L	2971	Standard
|	Br	79	122.7	11.4				ug/L	172	Standard
|	Se	82	78.7	7.7	-0.0801	0.051	63.1	ug/L	85	Standard
|	Kr	83	90.3	8.5				ug/L	76	Standard
|	Y	89	621600.5	1.0				ug/L	616650	Standard
|	Rh	103	498080.1	0.7				ug/L	500173	Standard
|	Cd	111	363.4	5.3	0.0190	0.010	54.6	ug/L	334	Standard
|	Cd	114	20.4	28.5	-0.0004	0.001	333.2	ug/L	23	Standard
>	In	115	337310.4	1.5				ug/L	346567	Standard
>	Tb	159	416323.2	1.8				ug/L	442198	Standard
|	Ho	165	420199.6	0.1				ug/L	448954	Standard
|	Pb	208	598.0	2.9	0.0013	0.001	65.9	ug/L	593	Standard
|	Bi	209	291696.8	1.7				ug/L	303890	Standard
|	Th	232	398567.2	2.2				ug/L	414939	Standard
|	Cr-1	52	38.0	7.0	-0.0152	0.005	31.5	ug/L	44	KED
|	Cr-1	53	4.3	13.3	-0.0346	0.008	22.2	ug/L	6	KED
>	Ge-1	72	5828.2	0.9				ug/L	5483	KED
|	As-2	75	2.0	50.0	0.0673	0.034	50.2	ug/L	0	KED
|	Y-1	89	9675.6	1.0				ug/L	9216	KED
|	Rh-1	103	69944.8	1.6				ug/L	66520	KED
|	Cd-1	111	0.7	86.6	-0.0125	0.005	37.6	ug/L	2	KED
|	Cd-1	114	3.6	73.6	-0.0011	0.008	773.6	ug/L	4	KED
>	In-1	115	6365.6	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		103.341
|	Cr	52		
|	Cr	53		
>	Ge	72		106.059
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Qc Std 2

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Cd	114	
In	115	97.329
Tb	159	94.149
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.301
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	110.938

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 10, 2022 09:15:14

Report Date/Time: Thursday, February 10, 2022 12:03:12

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	381682.0	3.2				ug/L	381361	Standard
|	Cr	52	343554.8	3.9	39.9811	0.675	1.7	ug/L	3452	Standard
|	Cr	53	39038.0	3.4	39.9371	0.114	0.3	ug/L	126	Standard
>	Ge	72	223132.0	3.3				ug/L	219214	Standard
|	As	75	38994.7	2.5	40.5527	0.351	0.9	ug/L	2513	Standard
|	As-1	75	39192.4	2.5	40.1800	0.500	1.2	ug/L	126	Standard
|	Se	77	3026.0	6.6	40.5171	1.508	3.7	ug/L	35	Standard
|	Se	78	13772.6	1.0	41.0513	1.429	3.5	ug/L	2971	Standard
|	Br	79	121.7	13.2				ug/L	172	Standard
|	Se	82	5514.4	1.9	39.7235	1.402	3.5	ug/L	85	Standard
|	Kr	83	94.0	4.9				ug/L	76	Standard
|	Y	89	592376.3	2.3				ug/L	616650	Standard
|	Rh	103	470412.0	1.7				ug/L	500173	Standard
|	Cd	111	78539.2	0.2	40.7341	0.760	1.9	ug/L	334	Standard
|	Cd	114	190686.5	1.4	40.7767	0.198	0.5	ug/L	23	Standard
>	In	115	321081.4	1.9				ug/L	346567	Standard
>	Tb	159	395343.5	1.1				ug/L	442198	Standard
|	Ho	165	402024.2	0.7				ug/L	448954	Standard
|	Pb	208	1225160.5	0.8	40.2712	0.167	0.4	ug/L	593	Standard
|	Bi	209	280553.4	0.4				ug/L	303890	Standard
|	Th	232	383232.8	0.6				ug/L	414939	Standard
|	Cr-1	52	21947.2	1.3	38.5193	0.738	1.9	ug/L	44	KED
|	Cr-1	53	2602.2	2.6	38.0027	0.602	1.6	ug/L	6	KED
>	Ge-1	72	5737.2	1.2				ug/L	5483	KED
|	As-2	75	1184.0	2.2	40.5078	0.956	2.4	ug/L	0	KED
|	Y-1	89	9217.3	0.8				ug/L	9216	KED
|	Rh-1	103	67161.8	0.8				ug/L	66520	KED
|	Cd-1	111	4719.4	2.2	39.7168	0.829	2.1	ug/L	2	KED
|	Cd-1	114	12210.4	0.6	39.2552	0.207	0.5	ug/L	4	KED
>	In-1	115	6098.7	0.9				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.084
|	Cr	52	99.953	
|	Cr	53	99.843	
>	Ge	72		101.787
|	As	75	101.382	
|	As-1	75	100.450	
|	Se	77	101.293	
|	Se	78	102.628	
|	Br	79		
|	Se	82	99.309	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	101.835	

Sample ID: QC Std 6

Report Date/Time: Thursday, February 10, 2022 12:03:12

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Cd	114	101.942	
In	115		92.646
Tb	159		89.404
Ho	165		
Pb	208	100.678	
Bi	209		
Th	232		
Cr-1	52	96.298	
Cr-1	53	95.007	
Ge-1	72		104.641
As-2	75	101.270	
Y-1	89		
Rh-1	103		
Cd-1	111	99.292	
Cd-1	114	98.138	
In-1	115		106.288

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 10, 2022 09:20:50

Report Date/Time: Thursday, February 10, 2022 12:03:14

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	382689.9	2.2				ug/L	381361	Standard
|	Cr	52	174998.5	4.0	20.1090	0.437	2.2	ug/L	3452	Standard
|	Cr	53	19628.2	3.9	19.9604	0.499	2.5	ug/L	126	Standard
>	Ge	72	219644.0	3.5				ug/L	219214	Standard
|	As	75	20632.8	4.1	20.4740	0.199	1.0	ug/L	2513	Standard
|	As-1	75	19426.2	3.2	20.1638	0.110	0.5	ug/L	126	Standard
|	Se	77	1546.4	5.1	20.8282	1.130	5.4	ug/L	35	Standard
|	Se	78	8465.5	4.7	21.2737	0.673	3.2	ug/L	2971	Standard
|	Br	79	109.7	13.8				ug/L	172	Standard
|	Se	82	2785.9	2.1	20.0746	0.468	2.3	ug/L	85	Standard
|	Kr	83	91.0	3.8				ug/L	76	Standard
|	Y	89	595009.4	1.7				ug/L	616650	Standard
|	Rh	103	468456.6	1.9				ug/L	500173	Standard
|	Cd	111	39739.3	1.1	20.6749	0.229	1.1	ug/L	334	Standard
|	Cd	114	95879.0	1.5	20.6453	0.102	0.5	ug/L	23	Standard
>	In	115	318823.2	1.7				ug/L	346567	Standard
>	Tb	159	394294.0	1.0				ug/L	442198	Standard
|	Ho	165	401928.4	1.7				ug/L	448954	Standard
|	Pb	208	614517.1	0.9	20.2441	0.088	0.4	ug/L	593	Standard
|	Bi	209	275845.0	1.2				ug/L	303890	Standard
|	Th	232	385050.2	2.0				ug/L	414939	Standard
|	Cr-1	52	10890.1	1.3	19.4025	0.057	0.3	ug/L	44	KED
|	Cr-1	53	1274.1	2.3	18.8894	0.747	4.0	ug/L	6	KED
>	Ge-1	72	5639.4	1.6				ug/L	5483	KED
|	As-2	75	595.7	2.9	20.7279	0.320	1.5	ug/L	0	KED
|	Y-1	89	9201.6	1.8				ug/L	9216	KED
|	Rh-1	103	66106.6	0.7				ug/L	66520	KED
|	Cd-1	111	2368.2	1.3	20.4231	0.447	2.2	ug/L	2	KED
|	Cd-1	114	6126.3	0.4	20.1847	0.294	1.5	ug/L	4	KED
>	In-1	115	5949.7	1.2				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.349
|	Cr	52	100.545	
|	Cr	53	99.802	
>	Ge	72		100.196
|	As	75	102.370	
|	As-1	75	100.819	
|	Se	77	104.141	
	Se	78	106.368	
	Br	79		
	Se	82	100.373	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	103.375	

Sample ID: QC Std 7

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Cd	114	103.227	
In	115		91.995
Tb	159		89.167
Ho	165		
Pb	208	101.221	
Bi	209		
Th	232		
Cr-1	52	97.013	
Cr-1	53	94.447	
Ge-1	72		102.859
As-2	75	103.640	
Y-1	89		
Rh-1	103		
Cd-1	111	102.116	
Cd-1	114	100.923	
In-1	115		103.691

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 10, 2022 09:26:27

Report Date/Time: Thursday, February 10, 2022 12:03:17

Method File: C:\NexlONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220210A\QC Std 8.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	405266.0	1.0				ug/L	381361	Standard
|	Cr	52	3762.2	2.3	0.0103	0.009	88.9	ug/L	3452	Standard
|	Cr	53	145.7	6.7	0.0111	0.011	96.7	ug/L	126	Standard
>	Ge	72	235335.4	2.0				ug/L	219214	Standard
|	As	75	2759.7	2.7	0.0647	0.019	29.1	ug/L	2513	Standard
|	As-1	75	108.6	25.8	-0.0259	0.026	98.9	ug/L	126	Standard
|	Se	77	48.7	8.3	0.1480	0.064	43.4	ug/L	35	Standard
|	Se	78	3270.4	2.2	0.2937	0.027	9.2	ug/L	2971	Standard
|	Br	79	123.0	19.6				ug/L	172	Standard
|	Se	82	83.3	10.8	-0.0554	0.055	98.6	ug/L	85	Standard
|	Kr	83	105.0	1.0				ug/L	76	Standard
|	Y	89	632744.4	2.0				ug/L	616650	Standard
|	Rh	103	503865.1	1.1				ug/L	500173	Standard
|	Cd	111	360.0	6.1	0.0164	0.011	69.3	ug/L	334	Standard
|	Cd	114	24.3	26.6	0.0004	0.001	331.3	ug/L	23	Standard
>	In	115	338982.1	0.9				ug/L	346567	Standard
>	Tb	159	416297.2	0.1				ug/L	442198	Standard
|	Ho	165	421611.4	1.0				ug/L	448954	Standard
|	Pb	208	528.3	3.7	-0.0009	0.001	64.4	ug/L	593	Standard
|	Bi	209	292034.5	0.5				ug/L	303890	Standard
|	Th	232	399333.1	0.3				ug/L	414939	Standard
|	Cr-1	52	35.3	33.0	-0.0211	0.019	89.0	ug/L	44	KED
|	Cr-1	53	5.3	47.2	-0.0216	0.035	162.1	ug/L	6	KED
>	Ge-1	72	5932.6	2.5				ug/L	5483	KED
|	As-2	75	0.7	86.6	0.0217	0.019	86.6	ug/L	0	KED
|	Y-1	89	9808.7	1.2				ug/L	9216	KED
|	Rh-1	103	70924.0	1.1				ug/L	66520	KED
|	Cd-1	111	2.7	21.7	0.0035	0.005	137.6	ug/L	2	KED
|	Cd-1	114	2.6	35.2	-0.0042	0.003	69.2	ug/L	4	KED
>	In-1	115	6400.2	1.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		106.268
|	Cr	52		
|	Cr	53		
>	Ge	72		107.354
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	97.811
Tb	159	94.143
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	108.205
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	111.542

Quantitative Analysis - Summary Report

Sample ID: MB0210WM1 2X

Sample Date/Time: Thursday, February 10, 2022 09:32:07

Report Date/Time: Thursday, February 10, 2022 12:03:19

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\MB0210WM1 2X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	376114.5	3.8				ug/L	381361	Standard
|	Cr	52	3845.9	4.0	0.0527	0.013	24.8	ug/L	3452	Standard
|	Cr	53	142.3	5.5	0.0184	0.004	20.6	ug/L	126	Standard
>	Ge	72	217804.3	5.7				ug/L	219214	Standard
|	As	75	2716.9	3.1	0.2534	0.076	30.2	ug/L	2513	Standard
|	As-1	75	76.8	15.8	-0.0505	0.014	26.8	ug/L	126	Standard
|	Se	77	42.7	25.1	0.1173	0.165	140.2	ug/L	35	Standard
|	Se	78	3239.0	3.9	1.1324	0.231	20.4	ug/L	2971	Standard
|	Br	79	108.3	14.1				ug/L	172	Standard
|	Se	82	76.0	14.8	-0.0652	0.051	78.4	ug/L	85	Standard
|	Kr	83	114.0	1.5				ug/L	76	Standard
|	Y	89	578047.3	3.1				ug/L	616650	Standard
|	Rh	103	462885.7	3.0				ug/L	500173	Standard
|	Cd	111	340.8	7.6	0.0225	0.011	49.0	ug/L	334	Standard
|	Cd	114	18.7	14.7	-0.0004	0.001	138.7	ug/L	23	Standard
>	In	115	309976.9	1.8				ug/L	346567	Standard
>	Tb	159	384514.5	1.5				ug/L	442198	Standard
|	Ho	165	382718.5	2.0				ug/L	448954	Standard
|	Pb	208	339.7	4.0	-0.0059	0.000	7.0	ug/L	593	Standard
|	Bi	209	266950.1	1.5				ug/L	303890	Standard
|	Th	232	370017.5	2.0				ug/L	414939	Standard
|	Cr-1	52	49.7	12.8	0.0097	0.012	119.4	ug/L	44	KED
|	Cr-1	53	7.3	20.8	0.0144	0.023	161.8	ug/L	6	KED
>	Ge-1	72	5528.4	0.6				ug/L	5483	KED
|	As-2	75	0.0		0.0000	0.000		ug/L	0	KED
|	Y-1	89	9171.3	1.2				ug/L	9216	KED
|	Rh-1	103	66084.2	0.9				ug/L	66520	KED
|	Cd-1	111	1.0	100.0	-0.0095	0.008	89.2	ug/L	2	KED
|	Cd-1	114	1.9	129.5	-0.0059	0.008	137.4	ug/L	4	KED
>	In-1	115	6122.5	1.0				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.624
|	Cr	52		
|	Cr	53		
>	Ge	72		99.357
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0210WM1 2X

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Cd	114	
In	115	89.442
Tb	159	86.955
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.833
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	106.701

Quantitative Analysis - Summary Report

Sample ID: SB0210WM1 2X

Sample Date/Time: Thursday, February 10, 2022 09:37:44

Report Date/Time: Thursday, February 10, 2022 12:03:21

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\SB0210WM1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	374033.1	1.9				ug/L	381361	Standard
|	Cr	52	443228.5	2.7	52.7649	0.664	1.3	ug/L	3452	Standard
|	Cr	53	50743.0	3.1	53.0117	0.880	1.7	ug/L	126	Standard
[>	Ge	72	216926.8	2.3				ug/L	219214	Standard
|	As	75	48582.9	2.8	52.7678	1.403	2.7	ug/L	2513	Standard
|	As-1	75	49607.3	2.0	52.3511	1.098	2.1	ug/L	126	Standard
|	Se	77	3881.9	1.7	53.6698	1.508	2.8	ug/L	35	Standard
|	Se	78	16602.6	3.3	53.6368	1.724	3.2	ug/L	2971	Standard
|	Br	79	117.7	17.6				ug/L	172	Standard
|	Se	82	7004.7	0.7	52.0756	0.909	1.7	ug/L	85	Standard
|	Kr	83	121.0	8.7				ug/L	76	Standard
|	Y	89	573655.1	0.2				ug/L	616650	Standard
|	Rh	103	454959.5	0.6				ug/L	500173	Standard
|	Cd	111	98500.0	1.0	53.3046	0.521	1.0	ug/L	334	Standard
|	Cd	114	238987.1	1.3	53.2854	0.690	1.3	ug/L	23	Standard
[>	In	115	307936.3	0.1				ug/L	346567	Standard
[>	Tb	159	380931.8	1.6				ug/L	442198	Standard
|	Ho	165	385039.4	2.1				ug/L	448954	Standard
|	Pb	208	1522763.2	1.0	51.9538	0.277	0.5	ug/L	593	Standard
|	Bi	209	266081.0	1.2				ug/L	303890	Standard
|	Th	232	368658.6	0.4				ug/L	414939	Standard
|	Cr-1	52	27764.6	2.9	50.0797	0.834	1.7	ug/L	44	KED
|	Cr-1	53	3314.7	0.7	49.7743	0.349	0.7	ug/L	6	KED
[>	Ge-1	72	5583.8	1.3				ug/L	5483	KED
|	As-2	75	1517.1	2.1	53.3255	1.106	2.1	ug/L	0	KED
|	Y-1	89	9158.9	1.6				ug/L	9216	KED
|	Rh-1	103	65453.6	1.6				ug/L	66520	KED
|	Cd-1	111	6128.6	0.9	51.8729	1.105	2.1	ug/L	2	KED
|	Cd-1	114	15731.6	1.0	50.8642	1.123	2.2	ug/L	4	KED
[>	In-1	115	6066.8	2.8				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		98.079
|	Cr	52		
|	Cr	53		
[>	Ge	72		98.957
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0210WM1 2X

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Cd	114	
In	115	88.853
Tb	159	86.145
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	101.843
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.731

Quantitative Analysis - Summary Report

Sample ID: 02-092-01c 2X

Sample Date/Time: Thursday, February 10, 2022 09:43:20

Report Date/Time: Thursday, February 10, 2022 12:03:23

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01c 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409816.9	1.1				ug/L	381361	Standard
|	Cr	52	18742.0	2.0	1.6458	0.022	1.3	ug/L	3452	Standard
|	Cr	53	1174.4	1.0	0.9930	0.019	1.9	ug/L	126	Standard
>	Ge	72	213927.7	2.8				ug/L	219214	Standard
|	As	75	4384.6	2.3	2.2428	0.028	1.2	ug/L	2513	Standard
|	As-1	75	1784.4	1.3	1.7829	0.031	1.7	ug/L	126	Standard
|	Se	77	62.7	4.6	0.4075	0.020	4.9	ug/L	35	Standard
|	Se	78	3316.7	2.5	1.6635	0.044	2.7	ug/L	2971	Standard
|	Br	79	16935.4	1.6				ug/L	172	Standard
|	Se	82	124.7	4.8	0.3192	0.063	19.9	ug/L	85	Standard
|	Kr	83	108.0	12.1				ug/L	76	Standard
|	Y	89	577752.2	0.8				ug/L	616650	Standard
|	Rh	103	427605.1	0.8				ug/L	500173	Standard
|	Cd	111	332.6	5.2	0.0260	0.010	39.1	ug/L	334	Standard
|	Cd	114	45.7	19.6	0.0061	0.002	35.3	ug/L	23	Standard
>	In	115	297188.5	0.7				ug/L	346567	Standard
>	Tb	159	372557.4	0.2				ug/L	442198	Standard
|	Ho	165	377879.5	1.0				ug/L	448954	Standard
|	Pb	208	3423.5	3.6	0.1020	0.004	4.1	ug/L	593	Standard
|	Bi	209	245465.3	0.8				ug/L	303890	Standard
|	Th	232	367727.5	0.8				ug/L	414939	Standard
|	Cr-1	52	405.3	1.7	0.6780	0.033	4.9	ug/L	44	KED
|	Cr-1	53	47.3	16.4	0.6425	0.137	21.3	ug/L	6	KED
>	Ge-1	72	5392.7	3.1				ug/L	5483	KED
|	As-2	75	57.0	5.3	2.0739	0.065	3.1	ug/L	0	KED
|	Y-1	89	9095.6	1.1				ug/L	9216	KED
|	Rh-1	103	60641.1	1.3				ug/L	66520	KED
|	Cd-1	111	1.7	69.3	-0.0030	0.011	349.0	ug/L	2	KED
|	Cd-1	114	4.1	60.7	0.0016	0.008	510.2	ug/L	4	KED
>	In-1	115	5799.6	2.5				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.462
|	Cr	52		
|	Cr	53		
>	Ge	72		97.589
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-01c 2X

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Cd	114	
In	115	85.752
Tb	159	84.251
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.358
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	101.074

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cD 2X

Sample Date/Time: Thursday, February 10, 2022 09:48:54

Report Date/Time: Thursday, February 10, 2022 12:03:25

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cD 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	409960.4	0.7				ug/L	381361	Standard
|	Cr	52	18086.1	1.6	1.5736	0.043	2.7	ug/L	3452	Standard
[	Cr	53	1306.7	1.9	1.1191	0.032	2.8	ug/L	126	Standard
[>	Ge	72	213841.5	1.6				ug/L	219214	Standard
|	As	75	4351.7	0.8	2.2065	0.044	2.0	ug/L	2513	Standard
|	As-1	75	1799.7	2.6	1.7998	0.054	3.0	ug/L	126	Standard
|	Se	77	70.7	14.5	0.5207	0.138	26.5	ug/L	35	Standard
|	Se	78	3279.7	2.2	1.5208	0.231	15.2	ug/L	2971	Standard
|	Br	79	17092.6	1.7				ug/L	172	Standard
[	Se	82	132.0	6.0	0.3742	0.050	13.3	ug/L	85	Standard
	Kr	83	92.3	14.6				ug/L	76	Standard
	Y	89	575634.4	0.3				ug/L	616650	Standard
[	Rh	103	429187.4	0.4				ug/L	500173	Standard
|	Cd	111	297.8	8.3	0.0060	0.012	199.0	ug/L	334	Standard
|	Cd	114	43.4	26.2	0.0055	0.002	45.4	ug/L	23	Standard
[>	In	115	297660.2	1.4				ug/L	346567	Standard
[>	Tb	159	377529.7	1.3				ug/L	442198	Standard
|	Ho	165	379870.2	1.3				ug/L	448954	Standard
|	Pb	208	3729.5	1.7	0.1110	0.003	2.9	ug/L	593	Standard
|	Bi	209	246436.3	1.4				ug/L	303890	Standard
[	Th	232	367464.7	1.1				ug/L	414939	Standard
[	Cr-1	52	464.7	10.1	0.7769	0.072	9.3	ug/L	44	KED
|	Cr-1	53	48.3	10.4	0.6459	0.065	10.1	ug/L	6	KED
[>	Ge-1	72	5459.4	1.8				ug/L	5483	KED
[	As-2	75	54.7	9.2	1.9677	0.216	11.0	ug/L	0	KED
	Y-1	89	9161.6	0.7				ug/L	9216	KED
	Rh-1	103	60955.5	3.1				ug/L	66520	KED
[	Cd-1	111	1.3	114.6	-0.0063	0.013	209.0	ug/L	2	KED
|	Cd-1	114	2.8	47.5	-0.0030	0.004	140.1	ug/L	4	KED
[>	In-1	115	5934.3	2.6				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.499
|	Cr	52		
[	Cr	53		
[>	Ge	72		97.549
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: 02-092-01cD 2X

Report Date/Time: Thursday, February 10, 2022 12:03:25

|	Cd	114	
>	In	115	85.888
>	Tb	159	85.376
|	Ho	165	
|	Pb	208	
|	Bi	209	
|	Th	232	
|	Cr-1	52	
|	Cr-1	53	
>	Ge-1	72	99.574
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
>	In-1	115	103.422

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cL 10X

Sample Date/Time: Thursday, February 10, 2022 09:54:29

Report Date/Time: Thursday, February 10, 2022 12:03:27

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cL 10X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409229.7	0.5				ug/L	381361	Standard
|	Cr	52	7617.7	5.2	0.4290	0.040	9.3	ug/L	3452	Standard
|	Cr	53	433.7	3.7	0.2854	0.018	6.2	ug/L	126	Standard
>	Ge	72	233803.2	2.5				ug/L	219214	Standard
|	As	75	3055.6	3.6	0.3977	0.037	9.3	ug/L	2513	Standard
|	As-1	75	427.6	3.7	0.2885	0.025	8.5	ug/L	126	Standard
|	Se	77	52.3	18.4	0.1986	0.121	60.7	ug/L	35	Standard
|	Se	78	3259.0	4.3	0.3267	0.217	66.4	ug/L	2971	Standard
|	Br	79	3478.1	4.8				ug/L	172	Standard
|	Se	82	89.3	1.7	-0.0091	0.014	157.9	ug/L	85	Standard
|	Kr	83	93.7	10.5				ug/L	76	Standard
|	Y	89	611861.9	1.5				ug/L	616650	Standard
|	Rh	103	474234.4	1.3				ug/L	500173	Standard
|	Cd	111	340.7	2.4	0.0129	0.003	22.0	ug/L	334	Standard
|	Cd	114	31.4	24.8	0.0021	0.002	76.2	ug/L	23	Standard
>	In	115	327300.5	1.3				ug/L	346567	Standard
>	Tb	159	403126.5	1.4				ug/L	442198	Standard
|	Ho	165	406395.9	1.8				ug/L	448954	Standard
|	Pb	208	1078.3	2.2	0.0174	0.001	4.6	ug/L	593	Standard
|	Bi	209	276550.3	0.9				ug/L	303890	Standard
|	Th	232	390838.2	0.9				ug/L	414939	Standard
|	Cr-1	52	129.3	8.9	0.1380	0.023	16.3	ug/L	44	KED
|	Cr-1	53	11.7	26.2	0.0674	0.044	64.8	ug/L	6	KED
>	Ge-1	72	5964.2	1.5				ug/L	5483	KED
|	As-2	75	12.0	28.9	0.3960	0.119	30.0	ug/L	0	KED
|	Y-1	89	9843.1	2.2				ug/L	9216	KED
|	Rh-1	103	68181.0	1.7				ug/L	66520	KED
|	Cd-1	111	2.3	24.7	0.0004	0.005	1283.2	ug/L	2	KED
|	Cd-1	114	2.9	23.0	-0.0035	0.002	52.7	ug/L	4	KED
>	In-1	115	6567.0	2.1				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.308
|	Cr	52		
|	Cr	53		
>	Ge	72		106.655
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-01cL 10X

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	Cd	114	
>	In	115	94.441
>	Tb	159	91.164
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	108.783
	As-2	75	
	Y-1	89	
	Rh-1	103	
	Cd-1	111	
	Cd-1	114	
>	In-1	115	114.448

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cMS 2X

Sample Date/Time: Thursday, February 10, 2022 10:00:04

Report Date/Time: Thursday, February 10, 2022 12:03:30

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMS 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	417312.2	1.9				ug/L	381361	Standard
|	Cr	52	433207.0	4.3	46.1624	1.146	2.5	ug/L	3452	Standard
|	Cr	53	48439.7	4.2	45.3300	1.051	2.3	ug/L	126	Standard
>	Ge	72	218667.1	5.2				ug/L	219214	Standard
|	As	75	50212.5	4.7	54.1786	0.446	0.8	ug/L	2513	Standard
|	As-1	75	51097.0	3.5	53.5195	1.037	1.9	ug/L	126	Standard
|	Se	77	3969.9	4.3	54.4553	0.625	1.1	ug/L	35	Standard
|	Se	78	16897.0	4.8	54.2701	0.425	0.8	ug/L	2971	Standard
|	Br	79	16827.2	2.1				ug/L	172	Standard
|	Se	82	7057.1	0.6	52.1164	2.394	4.6	ug/L	85	Standard
|	Kr	83	96.0	10.9				ug/L	76	Standard
|	Y	89	581039.1	2.8				ug/L	616650	Standard
|	Rh	103	431058.8	2.6				ug/L	500173	Standard
|	Cd	111	91014.5	2.5	50.4049	0.338	0.7	ug/L	334	Standard
|	Cd	114	220242.8	2.1	50.2646	0.254	0.5	ug/L	23	Standard
>	In	115	300830.7	1.9				ug/L	346567	Standard
>	Tb	159	380995.1	1.6				ug/L	442198	Standard
|	Ho	165	381948.8	1.6				ug/L	448954	Standard
|	Pb	208	1367598.4	1.1	46.6498	0.197	0.4	ug/L	593	Standard
|	Bi	209	249554.1	1.3				ug/L	303890	Standard
|	Th	232	375110.9	0.9				ug/L	414939	Standard
|	Cr-1	52	25816.6	1.9	47.3537	1.776	3.7	ug/L	44	KED
|	Cr-1	53	3182.0	2.3	48.5582	0.146	0.3	ug/L	6	KED
>	Ge-1	72	5493.7	2.0				ug/L	5483	KED
|	As-2	75	1594.1	5.1	56.9311	2.045	3.6	ug/L	0	KED
|	Y-1	89	9258.0	0.9				ug/L	9216	KED
|	Rh-1	103	61817.5	2.3				ug/L	66520	KED
|	Cd-1	111	5764.2	2.5	49.5135	1.929	3.9	ug/L	2	KED
|	Cd-1	114	14844.7	1.8	48.7041	1.352	2.8	ug/L	4	KED
>	In-1	115	5977.6	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.427
|	Cr	52		
|	Cr	53		
>	Ge	72		99.751
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-01cMS 2X

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Cd	114	
In	115	86.803
Tb	159	86.159
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.201
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	104.177

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cMSD 2X

Sample Date/Time: Thursday, February 10, 2022 10:05:39

Report Date/Time: Thursday, February 10, 2022 12:03:32

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cMSD 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	424077.7	1.6				ug/L	381361	Standard
|	Cr	52	434608.4	0.7	45.5859	0.501	1.1	ug/L	3452	Standard
|	Cr	53	48831.7	1.8	44.9943	1.446	3.2	ug/L	126	Standard
>	Ge	72	219382.2	3.3				ug/L	219214	Standard
|	As	75	51793.3	2.6	55.7826	0.581	1.0	ug/L	2513	Standard
|	As-1	75	52667.0	2.0	54.9708	0.793	1.4	ug/L	126	Standard
|	Se	77	4137.3	2.5	56.5793	0.698	1.2	ug/L	35	Standard
|	Se	78	17640.2	2.0	56.9565	1.298	2.3	ug/L	2971	Standard
|	Br	79	17455.0	4.1				ug/L	172	Standard
|	Se	82	7344.9	0.5	54.0436	1.873	3.5	ug/L	85	Standard
|	Kr	83	98.7	14.4				ug/L	76	Standard
|	Y	89	585529.7	2.3				ug/L	616650	Standard
|	Rh	103	433067.3	1.1				ug/L	500173	Standard
|	Cd	111	93069.9	1.4	51.5224	0.462	0.9	ug/L	334	Standard
|	Cd	114	223670.4	1.3	51.0211	0.520	1.0	ug/L	23	Standard
>	In	115	300985.7	0.6				ug/L	346567	Standard
>	Tb	159	382838.9	0.8				ug/L	442198	Standard
|	Ho	165	386453.0	1.4				ug/L	448954	Standard
|	Pb	208	1382064.3	0.7	46.9146	0.068	0.1	ug/L	593	Standard
|	Bi	209	251111.9	1.0				ug/L	303890	Standard
|	Th	232	372536.8	1.3				ug/L	414939	Standard
|	Cr-1	52	25387.5	0.7	46.1098	0.431	0.9	ug/L	44	KED
|	Cr-1	53	3078.3	1.6	46.5350	0.627	1.3	ug/L	6	KED
>	Ge-1	72	5545.7	1.5				ug/L	5483	KED
|	As-2	75	1621.1	3.3	57.3908	2.574	4.5	ug/L	0	KED
|	Y-1	89	9237.7	1.4				ug/L	9216	KED
|	Rh-1	103	61356.8	0.5				ug/L	66520	KED
|	Cd-1	111	5729.5	2.8	48.7541	3.068	6.3	ug/L	2	KED
|	Cd-1	114	14895.9	1.7	48.3987	2.212	4.6	ug/L	4	KED
>	In-1	115	6040.7	3.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.201
|	Cr	52		
|	Cr	53		
>	Ge	72		100.077
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-01cMSD 2X

Report Date/Time: Thursday, February 10, 2022 12:03:32

Cd	114	
In	115	86.848
Tb	159	86.576
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	101.150
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.276

Quantitative Analysis - Summary Report

Sample ID: 02-092-01cPS 2X

Sample Date/Time: Thursday, February 10, 2022 10:11:16

Report Date/Time: Thursday, February 10, 2022 12:03:34

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-01cPS 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	424652.9	3.1				ug/L	381361	Standard
|	Cr	52	348370.0	5.0	36.3959	0.990	2.7	ug/L	3452	Standard
|	Cr	53	38765.6	3.3	35.6351	0.666	1.9	ug/L	126	Standard
>	Ge	72	216432.7	4.5				ug/L	219214	Standard
|	As	75	41391.7	4.3	44.6419	0.308	0.7	ug/L	2513	Standard
|	As-1	75	41547.6	2.6	43.9415	0.851	1.9	ug/L	126	Standard
|	Se	77	3192.0	4.3	44.1415	0.854	1.9	ug/L	35	Standard
|	Se	78	14379.6	4.2	45.0400	0.152	0.3	ug/L	2971	Standard
|	Br	79	17378.2	3.0				ug/L	172	Standard
|	Se	82	5734.5	1.8	42.6778	2.506	5.9	ug/L	85	Standard
|	Kr	83	106.7	8.7				ug/L	76	Standard
|	Y	89	583277.4	3.3				ug/L	616650	Standard
|	Rh	103	429202.4	2.7				ug/L	500173	Standard
|	Cd	111	71968.5	2.5	39.9261	0.446	1.1	ug/L	334	Standard
|	Cd	114	173418.8	2.1	39.6782	0.156	0.4	ug/L	23	Standard
>	In	115	300084.0	2.3				ug/L	346567	Standard
>	Tb	159	377365.4	1.6				ug/L	442198	Standard
|	Ho	165	380393.3	2.7				ug/L	448954	Standard
|	Pb	208	1075858.0	1.3	37.0473	0.141	0.4	ug/L	593	Standard
|	Bi	209	245764.7	2.3				ug/L	303890	Standard
|	Th	232	370712.2	2.2				ug/L	414939	Standard
|	Cr-1	52	20548.1	0.9	37.8265	0.888	2.3	ug/L	44	KED
|	Cr-1	53	2458.5	1.7	37.6655	0.927	2.5	ug/L	6	KED
>	Ge-1	72	5470.4	1.8				ug/L	5483	KED
|	As-2	75	1247.4	1.7	44.7589	0.880	2.0	ug/L	0	KED
|	Y-1	89	9197.3	0.8				ug/L	9216	KED
|	Rh-1	103	61777.0	0.6				ug/L	66520	KED
|	Cd-1	111	4628.7	0.5	39.2948	0.849	2.2	ug/L	2	KED
|	Cd-1	114	11797.7	1.5	38.2582	0.880	2.3	ug/L	4	KED
>	In-1	115	6048.0	2.7				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.352
|	Cr	52		
|	Cr	53		
>	Ge	72		98.731
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-01cPS 2X

Report Date/Time: Thursday, February 10, 2022 12:03:34

Cd	114	
In	115	86.588
Tb	159	85.339
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.775
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.404

Quantitative Analysis - Summary Report

Sample ID: 02-092-02c 2X

Sample Date/Time: Thursday, February 10, 2022 10:16:53

Report Date/Time: Thursday, February 10, 2022 12:03:37

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-092-02c 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	416556.7	1.4				ug/L	381361	Standard
|	Cr	52	15034.6	3.8	1.2133	0.053	4.4	ug/L	3452	Standard
|	Cr	53	2389.5	3.3	2.1178	0.079	3.7	ug/L	126	Standard
>	Ge	72	219654.9	3.1				ug/L	219214	Standard
|	As	75	3228.3	1.5	0.8052	0.138	17.1	ug/L	2513	Standard
|	As-1	75	696.8	5.7	0.5974	0.061	10.2	ug/L	126	Standard
|	Se	77	168.7	10.4	1.8417	0.183	9.9	ug/L	35	Standard
|	Se	78	3309.4	1.6	1.2955	0.308	23.8	ug/L	2971	Standard
|	Br	79	29833.1	2.0				ug/L	172	Standard
|	Se	82	153.0	6.0	0.5038	0.052	10.4	ug/L	85	Standard
|	Kr	83	100.3	16.9				ug/L	76	Standard
|	Y	89	580753.2	1.7				ug/L	616650	Standard
|	Rh	103	437386.3	1.4				ug/L	500173	Standard
|	Cd	111	296.2	6.9	0.0032	0.010	318.1	ug/L	334	Standard
|	Cd	114	49.3	6.1	0.0067	0.001	10.8	ug/L	23	Standard
>	In	115	301265.5	0.8				ug/L	346567	Standard
>	Tb	159	383458.6	1.0				ug/L	442198	Standard
|	Ho	165	385095.5	0.6				ug/L	448954	Standard
|	Pb	208	2872.8	2.5	0.0800	0.003	3.7	ug/L	593	Standard
|	Bi	209	251176.3	0.5				ug/L	303890	Standard
|	Th	232	371381.5	1.6				ug/L	414939	Standard
|	Cr-1	52	405.3	4.4	0.6403	0.037	5.8	ug/L	44	KED
|	Cr-1	53	59.0	29.8	0.7774	0.265	34.0	ug/L	6	KED
>	Ge-1	72	5671.8	1.4				ug/L	5483	KED
|	As-2	75	18.0	5.6	0.6229	0.035	5.6	ug/L	0	KED
|	Y-1	89	9362.1	1.5				ug/L	9216	KED
|	Rh-1	103	63286.9	1.3				ug/L	66520	KED
|	Cd-1	111	1.3	43.3	-0.0067	0.005	73.4	ug/L	2	KED
|	Cd-1	114	4.7	36.5	0.0030	0.006	190.3	ug/L	4	KED
>	In-1	115	6141.7	0.8				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.229
|	Cr	52		
|	Cr	53		
>	Ge	72		100.201
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-02c 2X

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Cd	114	
In	115	86.928
Tb	159	86.716
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.449
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	107.037

Quantitative Analysis - Summary Report

Sample ID: 02-068-01c 2X

Sample Date/Time: Thursday, February 10, 2022 10:22:29

Report Date/Time: Thursday, February 10, 2022 12:03:39

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\02-068-01c 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	405154.3	2.2				ug/L	381361	Standard
|	Cr	52	10602.3	2.7	0.7679	0.006	0.8	ug/L	3452	Standard
|	Cr	53	859.0	2.7	0.7008	0.005	0.7	ug/L	126	Standard
>	Ge	72	223071.9	4.0				ug/L	219214	Standard
|	As	75	4913.9	2.4	2.6251	0.090	3.4	ug/L	2513	Standard
|	As-1	75	2206.9	2.6	2.1394	0.040	1.9	ug/L	126	Standard
|	Se	77	57.7	5.0	0.3045	0.050	16.5	ug/L	35	Standard
|	Se	78	3403.4	2.9	1.4561	0.141	9.7	ug/L	2971	Standard
|	Br	79	3292.0	4.0				ug/L	172	Standard
|	Se	82	110.3	10.5	0.1730	0.054	31.2	ug/L	85	Standard
|	Kr	83	78.0	12.6				ug/L	76	Standard
|	Y	89	577072.9	2.8				ug/L	616650	Standard
|	Rh	103	443503.1	2.8				ug/L	500173	Standard
|	Cd	111	296.9	3.6	0.0024	0.006	259.9	ug/L	334	Standard
|	Cd	114	67.7	9.9	0.0108	0.002	16.6	ug/L	23	Standard
>	In	115	303515.7	1.8				ug/L	346567	Standard
>	Tb	159	378697.6	1.3				ug/L	442198	Standard
|	Ho	165	382027.2	2.2				ug/L	448954	Standard
|	Pb	208	637.7	6.0	0.0045	0.001	32.5	ug/L	593	Standard
|	Bi	209	255154.0	1.2				ug/L	303890	Standard
|	Th	232	369048.2	0.7				ug/L	414939	Standard
|	Cr-1	52	271.0	6.4	0.3924	0.025	6.5	ug/L	44	KED
|	Cr-1	53	30.7	22.2	0.3485	0.095	27.4	ug/L	6	KED
>	Ge-1	72	5773.8	1.4				ug/L	5483	KED
|	As-2	75	82.0	12.9	2.7883	0.371	13.3	ug/L	0	KED
|	Y-1	89	9509.5	1.4				ug/L	9216	KED
|	Rh-1	103	64781.6	1.1				ug/L	66520	KED
|	Cd-1	111	2.7	57.3	0.0037	0.012	334.5	ug/L	2	KED
|	Cd-1	114	1.5	38.7	-0.0076	0.002	23.1	ug/L	4	KED
>	In-1	115	6344.0	0.5				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		106.239
|	Cr	52		
|	Cr	53		
>	Ge	72		101.760
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-068-01c 2X

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Cd	114	
In	115	87.578
Tb	159	85.640
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	105.310
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	110.562

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 10, 2022 10:28:06

Report Date/Time: Thursday, February 10, 2022 12:03:40

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 6.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	413156.5	0.7				ug/L	381361	Standard
|	Cr	52	383353.9	2.0	41.2278	0.616	1.5	ug/L	3452	Standard
|	Cr	53	43042.1	2.6	40.6797	0.859	2.1	ug/L	126	Standard
>	Ge	72	242159.0	2.5				ug/L	219214	Standard
|	As	75	42154.1	2.0	40.3789	0.244	0.6	ug/L	2513	Standard
|	As-1	75	42012.9	1.2	39.6863	0.544	1.4	ug/L	126	Standard
|	Se	77	3311.1	2.7	40.8797	0.184	0.4	ug/L	35	Standard
|	Se	78	14780.0	2.0	40.4376	0.308	0.8	ug/L	2971	Standard
|	Br	79	262.0	6.2				ug/L	172	Standard
|	Se	82	5757.2	1.2	38.1839	1.252	3.3	ug/L	85	Standard
|	Kr	83	101.3	8.5				ug/L	76	Standard
|	Y	89	618590.9	1.6				ug/L	616650	Standard
|	Rh	103	484717.4	1.4				ug/L	500173	Standard
|	Cd	111	80356.1	0.9	41.5493	0.427	1.0	ug/L	334	Standard
|	Cd	114	193660.9	1.1	41.2890	0.296	0.7	ug/L	23	Standard
>	In	115	322045.8	1.6				ug/L	346567	Standard
>	Tb	159	401770.0	0.9				ug/L	442198	Standard
|	Ho	165	403780.6	1.7				ug/L	448954	Standard
|	Pb	208	1227620.4	1.1	39.7054	0.257	0.6	ug/L	593	Standard
|	Bi	209	281265.4	1.0				ug/L	303890	Standard
|	Th	232	390069.2	0.8				ug/L	414939	Standard
|	Cr-1	52	23242.2	1.2	36.5506	0.235	0.6	ug/L	44	KED
|	Cr-1	53	2811.6	3.3	36.7944	0.882	2.4	ug/L	6	KED
>	Ge-1	72	6401.8	1.5				ug/L	5483	KED
|	As-2	75	1286.4	2.4	39.4351	0.537	1.4	ug/L	0	KED
|	Y-1	89	10470.2	1.2				ug/L	9216	KED
|	Rh-1	103	72580.6	0.5				ug/L	66520	KED
|	Cd-1	111	5430.4	1.6	39.8371	1.149	2.9	ug/L	2	KED
|	Cd-1	114	13771.1	0.9	38.5904	0.881	2.3	ug/L	4	KED
>	In-1	115	6998.1	1.5				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.338
|	Cr	52	103.070	
|	Cr	53	101.699	
>	Ge	72		110.467
|	As	75	100.947	
|	As-1	75	99.216	
|	Se	77	102.199	
	Se	78	101.094	
	Br	79		
	Se	82	95.460	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	103.873	

Sample ID: QC Std 6

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Cd	114	103.223	
In	115		92.924
Tb	159		90.857
Ho	165		
Pb	208	99.263	
Bi	209		
Th	232		
Cr-1	52	91.376	
Cr-1	53	91.986	
Ge-1	72		116.763
As-2	75	98.588	
Y-1	89		
Rh-1	103		
Cd-1	111	99.593	
Cd-1	114	96.476	
In-1	115		121.962

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 10, 2022 10:33:42

Report Date/Time: Thursday, February 10, 2022 12:03:42

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 7.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	403450.7	2.2				ug/L	381361	Standard
|	Cr	52	192286.9	1.0	20.9842	0.271	1.3	ug/L	3452	Standard
|	Cr	53	21555.9	1.7	20.8044	0.367	1.8	ug/L	126	Standard
>	Ge	72	236436.8	1.5				ug/L	219214	Standard
|	As	75	22081.3	2.1	20.3415	0.310	1.5	ug/L	2513	Standard
|	As-1	75	20866.9	1.6	20.1199	0.212	1.1	ug/L	126	Standard
|	Se	77	1682.8	3.8	21.0463	0.553	2.6	ug/L	35	Standard
|	Se	78	8918.1	1.6	20.5798	0.264	1.3	ug/L	2971	Standard
|	Br	79	204.3	10.5				ug/L	172	Standard
|	Se	82	2960.6	0.4	19.8050	0.345	1.7	ug/L	85	Standard
|	Kr	83	93.3	3.3				ug/L	76	Standard
|	Y	89	600288.9	1.7				ug/L	616650	Standard
|	Rh	103	477391.6	0.9				ug/L	500173	Standard
|	Cd	111	40148.4	0.3	20.7646	0.391	1.9	ug/L	334	Standard
|	Cd	114	96927.3	0.2	20.7486	0.371	1.8	ug/L	23	Standard
>	In	115	320757.6	1.6				ug/L	346567	Standard
>	Tb	159	395096.9	2.1				ug/L	442198	Standard
|	Ho	165	401559.0	0.7				ug/L	448954	Standard
|	Pb	208	612097.9	0.8	20.1268	0.264	1.3	ug/L	593	Standard
|	Bi	209	276265.4	0.3				ug/L	303890	Standard
|	Th	232	385164.6	2.0				ug/L	414939	Standard
|	Cr-1	52	11434.2	1.0	18.5701	0.351	1.9	ug/L	44	KED
|	Cr-1	53	1389.7	2.4	18.7788	0.602	3.2	ug/L	6	KED
>	Ge-1	72	6186.0	0.9				ug/L	5483	KED
|	As-2	75	679.3	2.0	21.5523	0.281	1.3	ug/L	0	KED
|	Y-1	89	10219.0	1.4				ug/L	9216	KED
|	Rh-1	103	71537.7	0.5				ug/L	66520	KED
|	Cd-1	111	2681.3	1.7	19.7573	0.273	1.4	ug/L	2	KED
|	Cd-1	114	6900.4	1.4	19.4268	0.188	1.0	ug/L	4	KED
>	In-1	115	6962.2	1.4				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		105.792
|	Cr	52	104.921	
|	Cr	53	104.022	
>	Ge	72		107.857
|	As	75	101.707	
|	As-1	75	100.600	
|	Se	77	105.232	
	Se	78	102.899	
	Br	79		
	Se	82	99.025	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	103.823	

Sample ID: QC Std 7

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Cd	114	103.743	
In	115		92.553
Tb	159		89.348
Ho	165		
Pb	208	100.634	
Bi	209		
Th	232		
Cr-1	52	92.850	
Cr-1	53	93.894	
Ge-1	72		112.827
As-2	75	107.762	
Y-1	89		
Rh-1	103		
Cd-1	111	98.787	
Cd-1	114	97.134	
In-1	115		121.336

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 10, 2022 10:39:19

Report Date/Time: Thursday, February 10, 2022 12:03:44

Method File: C:\NexIONData_kmckinney\Method\X220210A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220210A\QC Std 8.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	426472.8	0.2				ug/L	381361	Standard
|	Cr	52	4433.7	1.3	0.0603	0.006	9.8	ug/L	3452	Standard
|	Cr	53	194.0	12.2	0.0484	0.022	44.8	ug/L	126	Standard
>	Ge	72	250497.1	0.4				ug/L	219214	Standard
|	As	75	2877.0	2.8	0.0049	0.070	1440.1	ug/L	2513	Standard
|	As-1	75	124.7	14.8	-0.0173	0.017	97.2	ug/L	126	Standard
|	Se	77	45.0	14.6	0.0652	0.081	124.4	ug/L	35	Standard
|	Se	78	3402.4	2.8	0.0261	0.288	1103.1	ug/L	2971	Standard
|	Br	79	190.7	7.2				ug/L	172	Standard
|	Se	82	89.3	5.6	-0.0508	0.033	65.0	ug/L	85	Standard
|	Kr	83	91.0	13.7				ug/L	76	Standard
|	Y	89	642470.5	1.1				ug/L	616650	Standard
|	Rh	103	501797.3	0.3				ug/L	500173	Standard
|	Cd	111	351.3	2.6	0.0145	0.005	37.5	ug/L	334	Standard
|	Cd	114	22.4	9.2	0.0001	0.000	503.8	ug/L	23	Standard
>	In	115	334417.1	1.0				ug/L	346567	Standard
>	Tb	159	415906.3	1.2				ug/L	442198	Standard
|	Ho	165	416569.7	1.4				ug/L	448954	Standard
|	Pb	208	566.3	4.8	0.0003	0.001	296.4	ug/L	593	Standard
|	Bi	209	288344.8	1.0				ug/L	303890	Standard
|	Th	232	401831.9	1.5				ug/L	414939	Standard
|	Cr-1	52	40.7	14.0	-0.0190	0.009	45.7	ug/L	44	KED
|	Cr-1	53	5.7	27.0	-0.0251	0.019	77.3	ug/L	6	KED
>	Ge-1	72	6615.9	0.0				ug/L	5483	KED
|	As-2	75	1.3	43.3	0.0396	0.017	43.3	ug/L	0	KED
|	Y-1	89	10879.1	2.9				ug/L	9216	KED
|	Rh-1	103	75812.7	1.8				ug/L	66520	KED
|	Cd-1	111	2.3	49.5	-0.0018	0.008	429.4	ug/L	2	KED
|	Cd-1	114	3.0	39.6	-0.0043	0.003	74.2	ug/L	4	KED
>	In-1	115	7437.4	0.9				ug/L	5738	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.829
|	Cr	52		
|	Cr	53		
>	Ge	72		114.271
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Thursday, February 10, 2022 12:03:44

Cd	114	
In	115	96.494
Tb	159	94.054
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	120.668
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	129.619

Dissolved Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leoman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02-2022 February\I220211W1.wszf

Creation Date: 2/11/2022 10:00:20 AM

Comment:

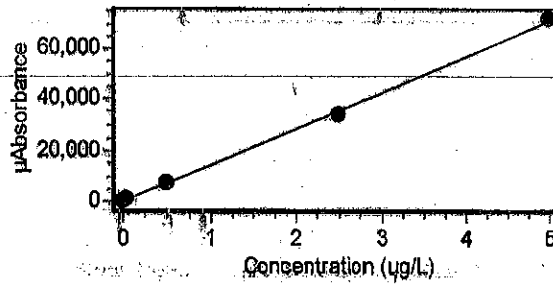
Kom
2-11-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	02/11/22 12:40:36 pm	0.00000	226	6.38			N/A
Standard #1	STD	02/11/22 12:43:06 pm	0.01000	388	0.21	14.93%		N/A
Standard #2	STD	02/11/22 12:45:38 pm	0.05000	922	0.60	-1.06%		N/A
Standard #3	STD	02/11/22 12:48:10 pm	0.50000	7282	0.26	0.01%		N/A
Standard #4	STD	02/11/22 12:50:43 pm	2.50000	33694	0.66	-5.14%		N/A
Standard #5	STD	02/11/22 12:53:15 pm	5.00000	71482	0.39	1.29%		N/A

Calibration

Equation: Abs = 14070.443x + 226.086
 R2: 0.99890 RSE: 9.17%
 SEE: 1167.3600
 Flags:



ICV	ICV	02/11/22 12:56:42 pm	2.79500	39653	0.21			111.80
ICV	ICV	02/11/22 12:59:27 pm	2.60880	36933	0.38			104.35
ICB	ICB	02/11/22 01:03:32 pm	0.00209	256	27.92			N/A
CCV	CCV	02/11/22 01:08:04 pm	2.50870	35524	0.35			100.35
CCB	CCB	02/11/22 01:08:36 pm	0.00179	251	32.29			N/A
MB0211W1	UNK	02/11/22 01:11:07 pm	0.00353	276	20.65			N/A
SB0211W1	UNK	02/11/22 01:13:39 pm	2.43830	34636	0.50			N/A
02-068-02c	UNK	02/11/22 01:16:11 pm	0.00347	275	15.81			N/A
02-068-02cD	UNK	02/11/22 01:18:43 pm	0.00544	303	21.49			N/A
02-068-02c L	UNK	02/11/22 01:21:15 pm	0.00274	265	20.60			N/A
02-068-02c MS	UNK	02/11/22 01:23:48 pm	2.44500	34629	0.34			N/A
02-068-02c MSD	UNK	02/11/22 01:26:20 pm	2.41150	34157	0.36			N/A
02-068-01c	UNK	02/11/22 01:28:54 pm	0.00168	250	56.10			N/A
02-068-03c	UNK	02/11/22 01:31:25 pm	0.00506	297	12.06			N/A
02-068-04c	UNK	02/11/22 01:33:57 pm	0.00461	291	12.25			N/A
CCV	CCV	02/11/22 01:36:29 pm	2.51340	35590	0.26			100.53
CCB	CCB	02/11/22 01:39:01 pm	0.00336	273	30.05			N/A
02-068-05c	UNK	02/11/22 01:41:33 pm	0.00558	305	6.30			N/A
02-068-06c	UNK	02/11/22 01:44:05 pm	0.00580	308	22.24			N/A
02-092-01c	UNK	02/11/22 01:50:45 pm	0.00674	321	9.06			N/A
02-092-02c	UNK	02/11/22 01:53:18 pm	0.00628	314	16.88			N/A
02-067-06d	UNK	02/11/22 01:55:51 pm	0.03320	693	2.18			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
02-067-07a	UNK	02/11/22 01:58:23 pm	0.01630	456	2.66			N/A
02-023-28e	UNK	02/11/22 02:00:56 pm	0.00469	292	26.86			N/A
CCV	CCV	02/11/22 02:03:27 pm	2.50470	35468	0.26			100.19
CCB	CCB	02/11/22 02:05:59 pm	0.00435	287	19.01			N/A
02-070-02	UNK	02/11/22 02:08:31 pm	0.03453	712	2.08			N/A
02-070-03	UNK	02/11/22 02:11:23 pm	0.02775	617	3.75			N/A
CCB	CCB	02/11/22 02:13:54 pm	0.00369	278	19.74			N/A
CCV	CCV	02/11/22 02:16:26 pm	2.34020	33184	0.16			93.61
CCB	CCB	02/11/22 02:18:58 pm	0.00310	270	17.86			N/A
MB0211D1	UNK	02/11/22 02:34:26 pm	2.40800	34107	0.40			N/A
SB0211D1	UNK	02/11/22 02:37:18 pm	0.00130	244	83.19			N/A
02-061-01d	UNK	02/11/22 02:43:33 pm	0.00586	309	12.63			N/A
02-061-01d D	UNK	02/11/22 02:46:06 pm	0.00493	296	11.63			N/A
02-061-01d L	UNK	02/11/22 02:48:38 pm	0.00083	238	86.02			N/A
02-061-01d MS	UNK	02/11/22 02:51:10 pm	2.37060	33581	0.32			N/A
02-061-01d-MSD	UNK	02/11/22 02:53:43 pm	2.38630	33802	0.47			N/A
02-061-02d	UNK	02/11/22 02:56:16 pm	0.00282	266	41.26			N/A
02-061-03d	UNK	02/11/22 02:58:47 pm	0.00356	276	19.76			N/A
02-061-04d	UNK	02/11/22 03:01:19 pm	0.00295	288	28.60			N/A
CCV	CCV	02/11/22 03:03:51 pm	2.49270	35299	0.24			99.71
CCB	CCB	02/11/22 03:06:23 pm	0.00254	262	4.32			N/A
02-061-05d	UNK	02/11/22 03:10:14 pm	0.00473	293	28.74			N/A
02-061-06d	UNK	02/11/22 03:12:47 pm	0.00499	296	14.70			N/A
02-091-01d	UNK	02/11/22 03:15:19 pm	0.00437	288	12.14			N/A
02-091-02d	UNK	02/11/22 03:17:52 pm	0.00552	304	14.60			N/A
CCV	CCV	02/11/22 03:20:24 pm	2.49250	35296	0.23			99.70
CCB	CCB	02/11/22 03:24:15 pm	0.00363	277	12.47			N/A
MDL 1	UNK	02/11/22 03:26:48 pm	-0.00009	225	781.07			N/A
MDL 2	UNK	02/11/22 03:29:20 pm	-0.00029	222	179.58			N/A
MDL 3	UNK	02/11/22 03:33:29 pm	-0.00025	223	106.67			N/A
MDL 4	UNK	02/11/22 03:36:01 pm	-0.00048	219	72.89			N/A

*KH 2/9/22***Summary**

Worksheet Name	B220209b.esws	Created Date/Time (local)	2/9/2022 9:34:25 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	2/9/2022 5:34:25 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B220209b.esws		

Notes



Results

Solution Label	Mn (257.610 nm)
Blank	0.00 (ppb)
Standard 5	10.00 (ppb)
Standard 4	100.00 (ppb)
Standard 3	1000.00 (ppb)
Standard 2	2500.00 (ppb)
Standard 1	5000.00 (ppb)
SI 100	
SI 1000	
SI 5000	
ICV	1015.18 (ppb)
ICB	0.00 u (ppb)
LLV	10.68 (ppb)
CCV	1001.61 (ppb)
CCB	0.04 u (ppb)
ICSA	3.71 (ppb)
ICSAB	422.18 (ppb)
MB0209SM1	1.49 (ppb)
SB0209SM1	1.52 (ppb)
02-067-01a	1216.60 (ppb)
02-067-01a D	893.28 (ppb)
02-067-01a L	250.11 (ppb)
02-067-01a MS	1096.96 (ppb)
02-067-01a MSD	1085.39 (ppb)
02-095-02c	4283.12 (ppb)
CCV	957.16 (ppb)
CCB	-0.10 u (ppb)
02-067-02a	1592.03 (ppb)
02-067-03a	4566.43 (ppb)
02-067-04a	5247.61 (ppb)
02-067-05a	3943.47 (ppb)
02-094-01	1607.27 (ppb)
02-067-01a(0209SM2)	1355.87 (ppb)
02-067-01a D	1361.78 (ppb)
02-067-01a L	277.72 (ppb)
02-067-01a MS	1304.31 (ppb)

Test Report



Agilent Technologies

Solution Label	Mn (257.610 nm)
02-067-01a MSD	1332.06 (ppb)
CCV	954.35 (ppb)
CCB	0.03 u (ppb)
MB0209SM2	1.98 (ppb)
SB0209SM2	1.28 (ppb)
02-095-02c	4386.56 (ppb)
02-067-02a	1483.93 (ppb)
02-067-03a	4480.09 (ppb)
02-067-04a	4047.66 (ppb)
02-067-05a	3688.40 (ppb)
02-094-01	1770.92 (ppb)
BLK	0.06 u (ppb)
MB0209D1 X 1.11	0.21 u (ppb)
CCV	910.61 (ppb)
CCB	0.05 u (ppb)
SB0209D1 X 1.11	453.29 (ppb)
02-050-01k X 1.11	233.39 (ppb)
02-050-01k D X 1.11	233.29 (ppb)
02-050-01k L	46.86 (ppb)
02-050-01k MS X 1.11	687.89 (ppb)
02-050-01k MSD X 1.11	683.91 (ppb)
02-068-01d X 1.11	49.89 (ppb)
02-068-02d X 1.11	133.99 (ppb)
02-068-03d X 1.11	90.64 (ppb)
02-068-04d X 1.11	92.75 (ppb)
CCV	941.00 (ppb)
CCB	0.14 (ppb)
02-068-05d X 1.11	1438.40 (ppb)
02-068-06d X 1.11	4321.37 (ppb)
02-092-01d X 1.11	139.83 (ppb)
02-092-02d X 1.11	21.44 (ppb)
MB0209WH1	0.02 u (ppb)
SB0209WH1	0.08 (ppb)



Solution Label	Mn (257.610 nm)
01-205-12c	663.77 (ppb)
01-205-12c D	700.11 (ppb)
01-205-12c L	135.34 (ppb)
01-205-12c MS	692.01 (ppb)
CCV	954.65 (ppb)
CCB	0.30 (ppb)
01-205-12c MSD	659.13 (ppb)
02-070-02	73.40 (ppb)
02-070-03	171.06 (ppb)
MB0209SH1	11.51 (ppb)
SB0209SH1	491.50 (ppb)

Dataset Report

km
2-9-22

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220209B\
Report Date/Time: Wednesday, February 09, 2022 13:45:18

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	11:54:35 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\Sample.001	
	Sample	11:59:04 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\Sample.002	
	Blank	12:04:07 Wed 09-F	Blank	C:\NexIONData_kmckinney\DataSet\X220209B\Blank.003	
	Standard 1	12:07:46 Wed 09-F	Standard #1	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 1.004	
	Standard 2	12:11:25 Wed 09-F	Standard #2	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 2.005	
	Standard 3	12:15:04 Wed 09-F	Standard #3	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 3.006	
	Standard 4	12:18:44 Wed 09-F	Standard #4	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 4.007	
	Standard 5	12:22:24 Wed 09-F	Standard #5	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 5.008	
	Standard 6	12:26:03 Wed 09-F	Standard #6	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 6.009	
	Standard 7	12:29:42 Wed 09-F	Standard #7	C:\NexIONData_kmckinney\DataSet\X220209B\Standard 7.010	
	QC Std 1	12:34:11 Wed 09-F	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 1.011	
	QC Std 2	12:38:40 Wed 09-F	QC Std #2	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 2.012	
	QC Std 6	12:42:19 Wed 09-F	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 6.013	
	QC Std 7	12:46:48 Wed 09-F	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 7.014	
	QC Std 8	12:51:17 Wed 09-F	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 8.015	
	MB0209D1 2X	12:54:56 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\MB0209D1 2X.016	
	SB0209D1 2X	12:59:25 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\SB0209D1 2X.017	
	02-092-01d 2X	13:03:53 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\02-092-01d 2X.018	
	02-092-02d 2X	13:08:20 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02d 2X.019	
	02-092-02dD 2X	13:12:47 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dD 2X.020	
	02-092-02dL 10X	13:17:15 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dL 10X.021	
	02-092-02dMS 2X	13:21:43 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dMS 2X.022	
	02-092-02dMSD 2X	13:26:12 Wed 09-F	Sample	C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dMSD 2X.023	
	QC Std 6	13:30:41 Wed 09-F	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 6.024	
	QC Std 7	13:35:10 Wed 09-F	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 7.025	
	QC Std 8	13:39:38 Wed 09-F	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 8.026	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, February 09, 2022 12:04:07

Report Date/Time: Wednesday, February 09, 2022 13:42:31

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Blank.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	544521.2	0.7				ug/L		Standard
|	Cr	52	5186.3	1.7				ug/L		Standard
|	Cr	53	164.7	6.1				ug/L		Standard
>	Ge	72	292894.0	2.8				ug/L		Standard
|	As	75	3299.1	4.5				ug/L		Standard
|	As-1	75	154.9	3.2				ug/L		Standard
|	Se	77	51.3	11.2				ug/L		Standard
|	Se	78	3890.2	3.8				ug/L		Standard
|	Br	79	178.0	3.5				ug/L		Standard
|	Se	82	103.3	10.3				ug/L		Standard
|	Kr	83	87.3	2.6				ug/L		Standard
|	Y	89	741782.6	1.9				ug/L		Standard
|	Rh	103	585307.2	0.4				ug/L		Standard
|	Cd	111	391.5	3.6				ug/L		Standard
|	Cd	114	14.3	49.3				ug/L		Standard
>	In	115	404428.9	0.5				ug/L		Standard
>	Tb	159	503699.6	0.4				ug/L		Standard
|	Ho	165	510888.6	1.6				ug/L		Standard
|	Pb	208	951.7	1.9				ug/L		Standard
|	Bi	209	360291.8	0.4				ug/L		Standard
|	Th	232	489915.1	0.4				ug/L		Standard
|	Cr-1	52	48.0	12.7				ug/L		KED
|	Cr-1	53	6.3	24.1				ug/L		KED
>	Ge-1	72	8634.3	1.2				ug/L		KED
|	As-2	75	1.7	91.7				ug/L		KED
|	Y-1	89	15143.4	1.4				ug/L		KED
|	Rh-1	103	96498.8	0.7				ug/L		KED
|	Cd-1	111	1.3	114.6				ug/L		KED
|	Cd-1	114	2.2	48.7				ug/L		KED
>	In-1	115	10136.6	1.6				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: Blank

Report Date/Time: Wednesday, February 09, 2022 13:42:31

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	Cd	114
>	In	115
>	Tb	159
	Ho	165
	Pb	208
	Bi	209
	Th	232
	Cr-1	52
	Cr-1	53
>	Ge-1	72
	As-2	75
	Y-1	89
	Rh-1	103
|	Cd-1	111
|	Cd-1	114
>	In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, February 09, 2022 12:07:46

Report Date/Time: Wednesday, February 09, 2022 13:42:33

Method File: C:\NexlONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220209B\Standard 1.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	494124.2	2.0				ug/L	544521	Standard
|	Cr	52	7789.8	0.8				ug/L	5186	Standard
|	Cr	53	461.3	2.0				ug/L	165	Standard
>	Ge	72	260861.1	1.3				ug/L	292894	Standard
|	As	75	3493.7	3.5				ug/L	3299	Standard
|	As-1	75	380.1	10.9	0.2000	0.030	15.0	ug/L	155	Standard
|	Se	77	70.7	10.7				ug/L	51	Standard
|	Se	78	3924.2	2.7				ug/L	3890	Standard
|	Br	79	153.7	8.4				ug/L	178	Standard
|	Se	82	130.7	3.5				ug/L	103	Standard
|	Kr	83	102.0	1.0				ug/L	87	Standard
|	Y	89	674105.2	1.2				ug/L	741783	Standard
|	Rh	103	533332.0	1.0				ug/L	585307	Standard
|	Cd	111	899.4	6.7	0.2000	0.022	10.8	ug/L	391	Standard
|	Cd	114	1236.0	3.5	0.2000	0.007	3.3	ug/L	14	Standard
>	In	115	368738.6	0.7				ug/L	404429	Standard
>	Tb	159	454907.2	0.4				ug/L	503700	Standard
|	Ho	165	466495.0	0.9				ug/L	510889	Standard
|	Pb	208	8448.7	1.3	0.2000	0.004	1.8	ug/L	952	Standard
|	Bi	209	332900.6	0.7				ug/L	360292	Standard
|	Th	232	455114.1	0.7				ug/L	489915	Standard
|	Cr-1	52	231.7	4.2				ug/L	48	KED
|	Cr-1	53	22.0	12.0				ug/L	6	KED
>	Ge-1	72	7806.8	2.8				ug/L	8634	KED
|	As-2	75	8.3	30.2	0.2000	0.077	38.4	ug/L	2	KED
|	Y-1	89	13599.1	1.5				ug/L	15143	KED
|	Rh-1	103	87043.4	0.5				ug/L	96499	KED
|	Cd-1	111	37.0	35.3	0.2000	0.074	37.1	ug/L	1	KED
|	Cd-1	114	104.0	4.8	0.2000	0.011	5.4	ug/L	2	KED
>	In-1	115	9074.3	0.5				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 1

Report Date/Time: Wednesday, February 09, 2022 13:42:33

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, February 09, 2022 12:11:25

Report Date/Time: Wednesday, February 09, 2022 13:42:35

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Standard 2.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	501999.2	0.8				ug/L	544521	Standard
|	Cr	52	11405.6	2.7	0.5000	0.026	5.1	ug/L	5186	Standard
|	Cr	53	897.7	8.7	0.5000	0.054	10.8	ug/L	165	Standard
>	Ge	72	269283.5	2.8				ug/L	292894	Standard
|	As	75	3872.4	1.6	0.5000	0.035	7.0	ug/L	3299	Standard
|	As-1	75	763.3	0.9	0.4997	0.017	3.5	ug/L	155	Standard
|	Se	77	105.7	13.8	0.5000	0.115	23.1	ug/L	51	Standard
|	Se	78	4067.9	2.1				ug/L	3890	Standard
|	Br	79	157.3	10.1				ug/L	178	Standard
|	Se	82	189.3	2.2	0.5000	0.012	2.4	ug/L	103	Standard
|	Kr	83	110.0	12.7				ug/L	87	Standard
|	Y	89	692470.2	1.1				ug/L	741783	Standard
|	Rh	103	545023.4	0.6				ug/L	585307	Standard
|	Cd	111	1664.1	3.8	0.4964	0.028	5.6	ug/L	391	Standard
|	Cd	114	2962.0	0.6	0.4966	0.004	0.9	ug/L	14	Standard
>	In	115	373180.4	0.6				ug/L	404429	Standard
>	Tb	159	463613.9	1.3				ug/L	503700	Standard
|	Ho	165	472766.7	0.7				ug/L	510889	Standard
|	Pb	208	19786.4	1.5	0.4985	0.007	1.4	ug/L	952	Standard
|	Bi	209	338537.8	0.7				ug/L	360292	Standard
|	Th	232	462807.1	0.7				ug/L	489915	Standard
|	Cr-1	52	480.7	2.1	0.5000	0.014	2.9	ug/L	48	KED
|	Cr-1	53	57.7	5.6	0.5000	0.035	7.0	ug/L	6	KED
>	Ge-1	72	7737.1	0.8				ug/L	8634	KED
|	As-2	75	20.3	34.9	0.5071	0.195	38.4	ug/L	2	KED
|	Y-1	89	13612.8	1.5				ug/L	15143	KED
|	Rh-1	103	88108.2	1.1				ug/L	96499	KED
|	Cd-1	111	93.7	18.2	0.5021	0.086	17.1	ug/L	1	KED
|	Cd-1	114	229.5	3.8	0.4919	0.024	4.8	ug/L	2	KED
>	In-1	115	9061.7	1.5				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 2

Report Date/Time: Wednesday, February 09, 2022 13:42:35

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Wednesday, February 09, 2022 12:15:04

Report Date/Time: Wednesday, February 09, 2022 13:42:37

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Standard 3.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	519333.0	1.1				ug/L	544521	Standard
|	Cr	52	30859.0	1.7	1.9932	0.023	1.1	ug/L	5186	Standard
|	Cr	53	3025.3	2.2	1.9911	0.065	3.3	ug/L	165	Standard
[>	Ge	72	275836.1	1.2				ug/L	292894	Standard
|	As	75	5676.6	1.1	1.9608	0.027	1.4	ug/L	3299	Standard
|	As-1	75	2759.6	0.6	2.0035	0.038	1.9	ug/L	155	Standard
|	Se	77	252.3	6.2	1.9798	0.133	6.7	ug/L	51	Standard
|	Se	78	4573.4	0.8	2.0000	0.159	7.9	ug/L	3890	Standard
|	Br	79	153.7	7.5				ug/L	178	Standard
|	Se	82	475.7	7.1	1.9975	0.210	10.5	ug/L	103	Standard
|	Kr	83	115.0	12.2				ug/L	87	Standard
|	Y	89	710831.2	0.6				ug/L	741783	Standard
|	Rh	103	564892.0	0.9				ug/L	585307	Standard
|	Cd	111	5475.1	2.9	1.9897	0.077	3.9	ug/L	391	Standard
|	Cd	114	12172.4	1.0	1.9972	0.011	0.6	ug/L	14	Standard
[>	In	115	389997.2	1.2				ug/L	404429	Standard
[>	Tb	159	482930.4	1.1				ug/L	503700	Standard
|	Ho	165	494971.3	1.5				ug/L	510889	Standard
|	Pb	208	81389.3	1.1	2.0024	0.006	0.3	ug/L	952	Standard
|	Bi	209	348930.8	0.8				ug/L	360292	Standard
|	Th	232	483030.5	1.5				ug/L	489915	Standard
|	Cr-1	52	1741.8	0.6	1.9918	0.062	3.1	ug/L	48	KED
|	Cr-1	53	217.3	9.0	1.9975	0.174	8.7	ug/L	6	KED
[>	Ge-1	72	8027.6	2.4				ug/L	8634	KED
|	As-2	75	85.7	12.9	2.0109	0.218	10.8	ug/L	2	KED
|	Y-1	89	14265.1	1.2				ug/L	15143	KED
|	Rh-1	103	92017.1	0.7				ug/L	96499	KED
|	Cd-1	111	372.0	5.0	1.9958	0.106	5.3	ug/L	1	KED
|	Cd-1	114	932.2	3.8	1.9954	0.095	4.8	ug/L	2	KED
[>	In-1	115	9419.5	1.1				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 3

Report Date/Time: Wednesday, February 09, 2022 13:42:37

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Wednesday, February 09, 2022 12:18:44

Report Date/Time: Wednesday, February 09, 2022 13:42:39

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Standard 4.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	478749.1	3.0				ug/L	544521	Standard
|	Cr	52	62467.3	2.6	4.9749	0.029	0.6	ug/L	5186	Standard
|	Cr	53	6661.9	4.4	4.9860	0.099	2.0	ug/L	165	Standard
>	Ge	72	256171.6	1.8				ug/L	292894	Standard
|	As	75	8849.0	2.5	4.9851	0.082	1.6	ug/L	3299	Standard
|	As-1	75	6215.6	2.8	5.0025	0.055	1.1	ug/L	155	Standard
|	Se	77	493.7	10.4	4.9518	0.474	9.6	ug/L	51	Standard
|	Se	78	5429.4	3.2	4.9705	0.231	4.6	ug/L	3890	Standard
|	Br	79	135.3	6.0				ug/L	178	Standard
|	Se	82	941.7	5.2	4.9751	0.188	3.8	ug/L	103	Standard
|	Kr	83	119.3	8.4				ug/L	87	Standard
|	Y	89	664474.8	0.5				ug/L	741783	Standard
|	Rh	103	519821.4	1.2				ug/L	585307	Standard
|	Cd	111	12142.0	2.2	5.0027	0.098	2.0	ug/L	391	Standard
|	Cd	114	28425.1	0.3	5.0128	0.063	1.3	ug/L	14	Standard
>	In	115	357729.9	1.6				ug/L	404429	Standard
>	Tb	159	446671.2	0.9				ug/L	503700	Standard
|	Ho	165	458777.1	1.1				ug/L	510889	Standard
|	Pb	208	189092.1	1.6	5.0093	0.041	0.8	ug/L	952	Standard
|	Bi	209	322843.2	1.2				ug/L	360292	Standard
|	Th	232	442615.7	1.4				ug/L	489915	Standard
|	Cr-1	52	3948.2	1.3	4.9827	0.100	2.0	ug/L	48	KED
|	Cr-1	53	480.7	6.8	4.9671	0.309	6.2	ug/L	6	KED
>	Ge-1	72	7533.3	0.7				ug/L	8634	KED
|	As-2	75	182.3	7.1	4.9397	0.342	6.9	ug/L	2	KED
|	Y-1	89	12963.9	1.3				ug/L	15143	KED
|	Rh-1	103	84055.9	0.4				ug/L	96499	KED
|	Cd-1	111	855.0	2.3	4.9946	0.047	0.9	ug/L	1	KED
|	Cd-1	114	2252.7	0.6	5.0302	0.085	1.7	ug/L	2	KED
>	In-1	115	8721.8	1.3				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Wednesday, February 09, 2022 13:42:39

Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Wednesday, February 09, 2022 12:22:24

Report Date/Time: Wednesday, February 09, 2022 13:42:41

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Standard 5.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	484031.5	2.6				ug/L	544521	Standard
|	Cr	52	224370.6	2.5	19.9036	0.158	0.8	ug/L	5186	Standard
|	Cr	53	25113.7	1.2	19.9212	0.287	1.4	ug/L	165	Standard
>	Ge	72	254416.1	1.4				ug/L	292894	Standard
|	As	75	24878.3	2.9	19.8923	0.400	2.0	ug/L	3299	Standard
|	As-1	75	23896.9	2.6	19.9783	0.347	1.7	ug/L	155	Standard
|	Se	77	1771.8	5.1	19.9437	0.774	3.9	ug/L	51	Standard
|	Se	78	9749.7	2.5	19.6399	0.389	2.0	ug/L	3890	Standard
|	Br	79	136.0	11.8				ug/L	178	Standard
|	Se	82	3394.1	0.7	19.9618	0.174	0.9	ug/L	103	Standard
|	Kr	83	100.7	15.9				ug/L	87	Standard
|	Y	89	667153.7	0.9				ug/L	741783	Standard
|	Rh	103	527476.4	0.9				ug/L	585307	Standard
|	Cd	111	46484.2	0.2	19.9456	0.090	0.5	ug/L	391	Standard
|	Cd	114	110666.4	0.4	19.9424	0.083	0.4	ug/L	14	Standard
>	In	115	363929.9	0.5				ug/L	404429	Standard
>	Tb	159	453662.0	0.7				ug/L	503700	Standard
|	Ho	165	465338.4	0.8				ug/L	510889	Standard
|	Pb	208	731541.2	0.7	19.9393	0.235	1.2	ug/L	952	Standard
|	Bi	209	329806.9	0.2				ug/L	360292	Standard
|	Th	232	453942.5	1.2				ug/L	489915	Standard
|	Cr-1	52	15107.3	0.7	19.9297	0.445	2.2	ug/L	48	KED
|	Cr-1	53	1825.1	2.5	19.9155	0.527	2.6	ug/L	6	KED
>	Ge-1	72	7613.7	1.6				ug/L	8634	KED
|	As-2	75	731.7	2.9	19.9815	0.516	2.6	ug/L	2	KED
|	Y-1	89	13386.3	1.2				ug/L	15143	KED
|	Rh-1	103	86235.5	1.5				ug/L	96499	KED
|	Cd-1	111	3242.7	2.1	19.9121	0.870	4.4	ug/L	1	KED
|	Cd-1	114	8617.7	0.7	19.9333	0.341	1.7	ug/L	2	KED
>	In-1	115	8809.8	2.2				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Wednesday, February 09, 2022 13:42:41

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Wednesday, February 09, 2022 12:26:03

Report Date/Time: Wednesday, February 09, 2022 13:42:43

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Standard 6.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	475341.2	1.9				ug/L	544521	Standard
|	Cr	52	431684.7	2.1	39.8700	0.210	0.5	ug/L	5186	Standard
|	Cr	53	48494.9	2.8	39.8444	0.857	2.1	ug/L	165	Standard
>	Ge	72	250746.1	2.6				ug/L	292894	Standard
|	As	75	45220.1	3.6	39.7559	0.546	1.4	ug/L	3299	Standard
|	As-1	75	46150.9	2.8	39.8408	0.377	0.9	ug/L	155	Standard
|	Se	77	3435.4	2.0	39.9473	0.314	0.8	ug/L	51	Standard
|	Se	78	15565.8	2.6	39.6239	0.609	1.5	ug/L	3890	Standard
|	Br	79	139.0	16.5				ug/L	178	Standard
|	Se	82	6553.8	0.9	39.9246	1.163	2.9	ug/L	103	Standard
|	Kr	83	98.3	22.9				ug/L	87	Standard
|	Y	89	660009.7	1.1				ug/L	741783	Standard
|	Rh	103	516614.3	0.3				ug/L	585307	Standard
|	Cd	111	90736.9	0.4	39.8977	0.253	0.6	ug/L	391	Standard
|	Cd	114	214831.2	0.5	39.8176	0.328	0.8	ug/L	14	Standard
>	In	115	359874.7	0.6				ug/L	404429	Standard
>	Tb	159	446802.4	0.6				ug/L	503700	Standard
|	Ho	165	458558.8	0.9				ug/L	510889	Standard
|	Pb	208	1426958.1	0.2	39.8960	0.182	0.5	ug/L	952	Standard
|	Bi	209	324608.3	1.3				ug/L	360292	Standard
|	Th	232	453046.4	0.4				ug/L	489915	Standard
|	Cr-1	52	29495.1	0.7	40.0055	1.603	4.0	ug/L	48	KED
|	Cr-1	53	3523.4	0.1	39.9051	1.406	3.5	ug/L	6	KED
>	Ge-1	72	7416.9	3.5				ug/L	8634	KED
|	As-2	75	1431.4	4.4	40.0500	3.139	7.8	ug/L	2	KED
|	Y-1	89	13084.7	0.5				ug/L	15143	KED
|	Rh-1	103	82884.1	1.1				ug/L	96499	KED
|	Cd-1	111	6294.4	0.1	39.9001	0.690	1.7	ug/L	1	KED
|	Cd-1	114	16839.0	0.5	39.9685	0.802	2.0	ug/L	2	KED
>	In-1	115	8611.3	1.9				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

|	Cd	114
[>	In	115
[>	Tb	159
|	Ho	165
|	Pb	208
|	Bi	209
[	Th	232
[	Cr-1	52
|	Cr-1	53
[>	Ge-1	72
[	As-2	75
|	Y-1	89
|	Rh-1	103
[	Cd-1	111
|	Cd-1	114
[>	In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Wednesday, February 09, 2022 12:29:42

Report Date/Time: Wednesday, February 09, 2022 13:42:46

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\Standard 7.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	471940.2	1.9				ug/L	544521	Standard
|	Cr	52	1049248.7	3.2	99.6924	1.319	1.3	ug/L	5186	Standard
|	Cr	53	120011.2	2.5	99.9130	1.259	1.3	ug/L	165	Standard
[>	Ge	72	254860.0	1.6				ug/L	292894	Standard
|	As	75	108851.1	3.1	99.6176	1.587	1.6	ug/L	3299	Standard
|	As-1	75	114951.7	2.6	99.6200	1.005	1.0	ug/L	155	Standard
|	Se	77	8602.6	4.5	99.8525	2.880	2.9	ug/L	51	Standard
|	Se	78	33437.5	4.3	99.2506	3.106	3.1	ug/L	3890	Standard
|	Br	79	150.0	2.3				ug/L	178	Standard
|	Se	82	15942.2	2.3	99.3482	0.734	0.7	ug/L	103	Standard
|	Kr	83	110.0	1.6				ug/L	87	Standard
|	Y	89	665034.6	1.1				ug/L	741783	Standard
|	Rh	103	518093.5	1.1				ug/L	585307	Standard
|	Cd	111	223401.2	1.1	99.7425	0.931	0.9	ug/L	391	Standard
|	Cd	114	532013.9	0.6	99.7691	0.760	0.8	ug/L	14	Standard
[>	In	115	359733.5	0.5				ug/L	404429	Standard
[>	Tb	159	452008.7	0.5				ug/L	503700	Standard
|	Ho	165	461186.8	1.5				ug/L	510889	Standard
|	Pb	208	3539003.8	0.6	99.6287	0.239	0.2	ug/L	952	Standard
|	Bi	209	331786.7	0.6				ug/L	360292	Standard
|	Th	232	460579.9	0.9				ug/L	489915	Standard
|	Cr-1	52	71974.5	1.2	99.7533	1.489	1.5	ug/L	48	KED
|	Cr-1	53	8825.7	1.5	100.1548	0.844	0.8	ug/L	6	KED
[>	Ge-1	72	7346.9	1.6				ug/L	8634	KED
|	As-2	75	3492.4	3.1	99.7473	1.834	1.8	ug/L	2	KED
|	Y-1	89	12794.7	1.2				ug/L	15143	KED
|	Rh-1	103	83496.3	1.3				ug/L	96499	KED
|	Cd-1	111	15736.0	1.4	99.9839	1.668	1.7	ug/L	1	KED
|	Cd-1	114	41418.8	1.0	99.7381	2.304	2.3	ug/L	2	KED
[>	In-1	115	8598.0	1.5				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 7

Report Date/Time: Wednesday, February 09, 2022 13:42:46

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, February 09, 2022 12:34:11

Report Date/Time: Wednesday, February 09, 2022 13:42:48

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 1.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	518532.1	0.9				ug/L	544521	Standard
|	Cr	52	621291.7	0.7	53.5384	0.129	0.2	ug/L	5186	Standard
|	Cr	53	70311.0	1.6	53.2222	0.645	1.2	ug/L	165	Standard
>	Ge	72	282319.7	3.1				ug/L	292894	Standard
|	As	75	64585.5	3.7	52.1135	1.054	2.0	ug/L	3299	Standard
|	As-1	75	66605.5	2.8	52.0653	0.903	1.7	ug/L	155	Standard
|	Se	77	5006.9	2.6	52.2724	2.406	4.6	ug/L	51	Standard
|	Se	78	20879.3	3.2	51.0860	0.643	1.3	ug/L	3890	Standard
|	Br	79	174.3	11.2				ug/L	178	Standard
|	Se	82	9141.6	0.6	51.1857	1.290	2.5	ug/L	103	Standard
|	Kr	83	107.7	14.9				ug/L	87	Standard
|	Y	89	734837.9	0.7				ug/L	741783	Standard
|	Rh	103	570636.1	1.0				ug/L	585307	Standard
|	Cd	111	128402.7	1.4	53.0549	0.397	0.7	ug/L	391	Standard
|	Cd	114	305803.5	0.6	53.1452	0.062	0.1	ug/L	14	Standard
>	In	115	388165.6	0.7				ug/L	404429	Standard
>	Tb	159	491672.7	1.2				ug/L	503700	Standard
|	Ho	165	501587.2	0.5				ug/L	510889	Standard
|	Pb	208	2051397.9	0.4	53.0869	0.812	1.5	ug/L	952	Standard
|	Bi	209	355722.4	0.2				ug/L	360292	Standard
|	Th	232	496835.3	0.4				ug/L	489915	Standard
|	Cr-1	52	40923.5	1.1	52.5448	0.160	0.3	ug/L	48	KED
|	Cr-1	53	4880.5	1.6	51.3132	0.950	1.9	ug/L	6	KED
>	Ge-1	72	7925.5	1.1				ug/L	8634	KED
|	As-2	75	1947.8	2.9	51.5496	0.927	1.8	ug/L	2	KED
|	Y-1	89	13737.6	0.9				ug/L	15143	KED
|	Rh-1	103	88676.0	0.4				ug/L	96499	KED
|	Cd-1	111	9016.8	0.8	53.3833	0.527	1.0	ug/L	1	KED
|	Cd-1	114	23315.7	0.4	52.3131	0.799	1.5	ug/L	2	KED
>	In-1	115	9226.7	1.4				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		95.227
|	Cr	52	107.077	
|	Cr	53	106.444	
>	Ge	72		96.390
|	As	75	104.227	
|	As-1	75	104.131	
|	Se	77	104.545	
|	Se	78	102.172	
|	Br	79		
|	Se	82	102.371	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	106.110	

Sample ID: QC Std 1

Report Date/Time: Wednesday, February 09, 2022 13:42:48

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Cd	114	106.290	
In	115		95.979
Tb	159		97.612
Ho	165		
Pb	208	106.174	
Bi	209		
Th	232		
Cr-1	52	105.090	
Cr-1	53	102.626	
Ge-1	72		91.792
As-2	75	103.099	
Y-1	89		
Rh-1	103		
Cd-1	111	106.767	
Cd-1	114	104.626	
In-1	115		91.024

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, February 09, 2022 12:38:40

Report Date/Time: Wednesday, February 09, 2022 13:42:49

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 2.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	510310.4	2.1				ug/L	544521	Standard
|	Cr	52	4598.1	1.9	-0.0231	0.001	4.6	ug/L	5186	Standard
|	Cr	53	145.0	6.8	-0.0072	0.006	87.3	ug/L	165	Standard
[>	Ge	72	271173.2	2.0				ug/L	292894	Standard
|	As	75	3207.9	2.3	0.1355	0.011	8.3	ug/L	3299	Standard
|	As-1	75	181.4	15.3	0.0307	0.020	63.8	ug/L	155	Standard
|	Se	77	46.3	2.5	-0.0131	0.010	78.4	ug/L	51	Standard
|	Se	78	3777.2	1.8	0.5453	0.052	9.6	ug/L	3890	Standard
|	Br	79	152.3	7.4				ug/L	178	Standard
|	Se	82	112.3	5.4	0.0979	0.024	24.9	ug/L	103	Standard
|	Kr	83	114.3	19.9				ug/L	87	Standard
|	Y	89	705832.5	1.0				ug/L	741783	Standard
|	Rh	103	555658.0	1.9				ug/L	585307	Standard
|	Cd	111	419.9	5.4	0.0213	0.009	43.3	ug/L	391	Standard
|	Cd	114	27.2	27.5	0.0024	0.001	54.2	ug/L	14	Standard
[>	In	115	381557.9	0.2				ug/L	404429	Standard
[>	Tb	159	476284.9	0.4				ug/L	503700	Standard
|	Ho	165	485208.1	0.9				ug/L	510889	Standard
|	Pb	208	963.7	1.3	0.0017	0.000	19.4	ug/L	952	Standard
|	Bi	209	347677.3	0.6				ug/L	360292	Standard
|	Th	232	479072.5	0.5				ug/L	489915	Standard
|	Cr-1	52	48.0	9.1	0.0052	0.005	100.5	ug/L	48	KED
|	Cr-1	53	4.7	53.9	-0.0121	0.026	217.0	ug/L	6	KED
[>	Ge-1	72	7907.5	0.8				ug/L	8634	KED
|	As-2	75	1.3	43.3	-0.0052	0.015	291.5	ug/L	2	KED
|	Y-1	89	13796.7	0.6				ug/L	15143	KED
|	Rh-1	103	87979.8	0.9				ug/L	96499	KED
|	Cd-1	111	1.7	69.3	0.0025	0.007	257.0	ug/L	1	KED
|	Cd-1	114	3.7	42.0	0.0036	0.004	97.3	ug/L	2	KED
[>	In-1	115	9278.0	2.0				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.717
|	Cr	52		
|	Cr	53		
[>	Ge	72		92.584
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: QC Std 2

Report Date/Time: Wednesday, February 09, 2022 13:42:49

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	Cd	114	
>	In	115	94.345
>	Tb	159	94.557
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	91.583
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
>	In-1	115	91.530

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, February 09, 2022 12:42:19

Report Date/Time: Wednesday, February 09, 2022 13:42:52

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 6.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	461043.1	1.1				ug/L	544521	Standard
|	Cr	52	416345.5	2.8	40.2410	0.744	1.9	ug/L	5186	Standard
|	Cr	53	47402.9	1.9	40.3266	0.481	1.2	ug/L	165	Standard
>	Ge	72	248830.9	2.0				ug/L	292894	Standard
|	As	75	45101.1	2.4	40.7293	0.583	1.4	ug/L	3299	Standard
|	As-1	75	45772.4	1.5	40.5688	0.572	1.4	ug/L	155	Standard
|	Se	77	3430.1	3.2	40.4924	1.487	3.7	ug/L	51	Standard
|	Se	78	15508.8	2.7	41.2911	0.760	1.8	ug/L	3890	Standard
|	Br	79	152.7	2.7				ug/L	178	Standard
|	Se	82	6413.4	0.7	40.6209	1.056	2.6	ug/L	103	Standard
|	Kr	83	97.0	11.5				ug/L	87	Standard
|	Y	89	649915.7	1.4				ug/L	741783	Standard
|	Rh	103	508088.3	0.5				ug/L	585307	Standard
|	Cd	111	87769.6	0.8	40.2750	0.293	0.7	ug/L	391	Standard
|	Cd	114	208455.0	0.8	40.2681	0.353	0.9	ug/L	14	Standard
>	In	115	349210.1	0.3				ug/L	404429	Standard
>	Tb	159	442907.8	0.4				ug/L	503700	Standard
|	Ho	165	453267.3	0.5				ug/L	510889	Standard
|	Pb	208	1399480.1	0.6	40.1929	0.150	0.4	ug/L	952	Standard
|	Bi	209	320301.0	0.5				ug/L	360292	Standard
|	Th	232	445723.0	0.5				ug/L	489915	Standard
|	Cr-1	52	28142.0	2.1	39.8666	0.870	2.2	ug/L	48	KED
|	Cr-1	53	3423.4	2.2	39.7030	0.320	0.8	ug/L	6	KED
>	Ge-1	72	7181.5	1.4				ug/L	8634	KED
|	As-2	75	1354.4	2.8	39.5496	0.580	1.5	ug/L	2	KED
|	Y-1	89	12588.9	2.3				ug/L	15143	KED
|	Rh-1	103	81141.1	0.8				ug/L	96499	KED
|	Cd-1	111	6143.7	0.8	40.3437	0.655	1.6	ug/L	1	KED
|	Cd-1	114	16055.6	1.4	39.9521	0.543	1.4	ug/L	2	KED
>	In-1	115	8318.9	1.8				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		84.669
|	Cr	52	100.602	
|	Cr	53	100.817	
>	Ge	72		84.956
|	As	75	101.823	
|	As-1	75	101.422	
|	Se	77	101.231	
	Se	78	103.228	
	Br	79		
	Se	82	101.552	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.687	

Sample ID: QC Std 6

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	Cd	114	100.670	
>	In	115		86.346
>	Tb	159		87.931
	Ho	165		
	Pb	208	100.482	
	Bi	209		
	Th	232		
	Cr-1	52	99.666	
|	Cr-1	53	99.258	
|>	Ge-1	72		83.174
|	As-2	75	98.874	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	100.859	
|	Cd-1	114	99.880	
|>	In-1	115		82.068

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, February 09, 2022 12:46:48

Report Date/Time: Wednesday, February 09, 2022 13:42:54

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 7.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	468303.4	1.2				ug/L	544521	Standard
|	Cr	52	215060.6	1.5	20.2551	0.127	0.6	ug/L	5186	Standard
|	Cr	53	24300.3	3.0	20.2927	0.491	2.4	ug/L	165	Standard
[>	Ge	72	252090.2	2.7				ug/L	292894	Standard
|	As	75	24596.9	3.1	20.6777	0.092	0.4	ug/L	3299	Standard
|	As-1	75	23347.4	1.6	20.3689	0.225	1.1	ug/L	155	Standard
|	Se	77	1775.8	1.5	20.4420	0.628	3.1	ug/L	51	Standard
|	Se	78	9715.3	5.0	21.2524	0.738	3.5	ug/L	3890	Standard
|	Br	79	135.7	15.5				ug/L	178	Standard
|	Se	82	3258.7	0.9	20.0930	0.467	2.3	ug/L	103	Standard
|	Kr	83	97.3	10.1				ug/L	87	Standard
|	Y	89	659118.3	1.0				ug/L	741783	Standard
|	Rh	103	505937.1	1.7				ug/L	585307	Standard
|	Cd	111	45100.8	1.7	20.4992	0.243	1.2	ug/L	391	Standard
|	Cd	114	106230.7	0.5	20.4018	0.156	0.8	ug/L	14	Standard
[>	In	115	351236.6	0.6				ug/L	404429	Standard
[>	Tb	159	441014.6	1.0				ug/L	503700	Standard
|	Ho	165	453306.6	0.7				ug/L	510889	Standard
|	Pb	208	707614.4	0.6	20.4001	0.322	1.6	ug/L	952	Standard
|	Bi	209	318502.8	0.5				ug/L	360292	Standard
|	Th	232	443116.2	0.7				ug/L	489915	Standard
|	Cr-1	52	14173.0	1.2	20.1100	0.153	0.8	ug/L	48	KED
|	Cr-1	53	1690.8	3.4	19.6371	0.536	2.7	ug/L	6	KED
[>	Ge-1	72	7159.5	0.9				ug/L	8634	KED
|	As-2	75	694.7	2.4	20.3307	0.452	2.2	ug/L	2	KED
|	Y-1	89	12608.6	0.2				ug/L	15143	KED
|	Rh-1	103	80990.9	0.9				ug/L	96499	KED
|	Cd-1	111	3146.0	1.5	20.4040	0.533	2.6	ug/L	1	KED
|	Cd-1	114	8210.9	1.4	20.1787	0.248	1.2	ug/L	2	KED
[>	In-1	115	8422.9	2.4				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		86.003
|	Cr	52	101.275	
|	Cr	53	101.464	
[>	Ge	72		86.069
|	As	75	103.388	
|	As-1	75	101.845	
|	Se	77	102.210	
|	Se	78	106.262	
|	Br	79		
|	Se	82	100.465	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	102.496	

Sample ID: QC Std 7

Report Date/Time: Wednesday, February 09, 2022 13:42:54

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]	Cd	114	102.009	
[>	In	115		86.848
[>	Tb	159		87.555
]	Ho	165		
]	Pb	208	102.001	
]	Bi	209		
]	Th	232		
]	Cr-1	52	100.550	
]	Cr-1	53	98.186	
[>	Ge-1	72		82.919
[	As-2	75	101.653	
]	Y-1	89		
]	Rh-1	103		
]	Cd-1	111	102.020	
]	Cd-1	114	100.894	
[>	In-1	115		83.094

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, February 09, 2022 12:51:17

Report Date/Time: Wednesday, February 09, 2022 13:42:56

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 8.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	505529.3	1.7				ug/L	544521	Standard
|	Cr	52	4581.1	0.3	-0.0208	0.006	26.7	ug/L	5186	Standard
|	Cr	53	147.3	8.7	-0.0043	0.011	245.9	ug/L	165	Standard
>	Ge	72	271051.9	2.4				ug/L	292894	Standard
|	As	75	3070.4	2.1	0.0155	0.027	175.8	ug/L	3299	Standard
|	As-1	75	133.0	23.7	-0.0088	0.023	265.2	ug/L	155	Standard
|	Se	77	49.3	5.1	0.0206	0.039	190.4	ug/L	51	Standard
|	Se	78	3637.1	1.7	0.1165	0.105	90.4	ug/L	3890	Standard
|	Br	79	140.3	12.2				ug/L	178	Standard
|	Se	82	97.7	11.2	0.0112	0.052	463.9	ug/L	103	Standard
|	Kr	83	107.7	1.1				ug/L	87	Standard
|	Y	89	710113.5	1.1				ug/L	741783	Standard
|	Rh	103	552387.3	1.5				ug/L	585307	Standard
|	Cd	111	398.3	6.4	0.0128	0.010	75.5	ug/L	391	Standard
|	Cd	114	17.5	15.6	0.0007	0.001	68.8	ug/L	14	Standard
>	In	115	380010.0	0.7				ug/L	404429	Standard
>	Tb	159	473272.6	1.0				ug/L	503700	Standard
|	Ho	165	483904.1	1.0				ug/L	510889	Standard
|	Pb	208	915.0	2.4	0.0006	0.000	75.2	ug/L	952	Standard
|	Bi	209	346630.0	0.7				ug/L	360292	Standard
|	Th	232	477579.8	0.6				ug/L	489915	Standard
|	Cr-1	52	41.3	7.0	-0.0028	0.004	162.7	ug/L	48	KED
|	Cr-1	53	4.7	44.6	-0.0112	0.023	204.7	ug/L	6	KED
>	Ge-1	72	7820.8	1.5				ug/L	8634	KED
|	As-2	75	1.0	100.0	-0.0136	0.027	200.3	ug/L	2	KED
|	Y-1	89	13513.4	1.8				ug/L	15143	KED
|	Rh-1	103	88333.6	0.5				ug/L	96499	KED
|	Cd-1	111	1.3	43.3	0.0006	0.003	563.0	ug/L	1	KED
|	Cd-1	114	2.3	88.5	0.0006	0.005	721.5	ug/L	2	KED
>	In-1	115	9349.4	1.4				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		92.839
|	Cr	52		
|	Cr	53		
>	Ge	72		92.543
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Wednesday, February 09, 2022 13:42:56

Cd	114	
In	115	93.962
Tb	159	93.959
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	90.579
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	92.234

Quantitative Analysis - Summary Report

Sample ID: MB0209D1 2X

Sample Date/Time: Wednesday, February 09, 2022 12:54:56

Report Date/Time: Wednesday, February 09, 2022 13:42:58

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\MB0209D1 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	501807.5	1.5				ug/L	544521	Standard
|	Cr	52	4559.4	1.9	-0.0198	0.002	8.0	ug/L	5186	Standard
|	Cr	53	151.3	5.0	-0.0004	0.004	1167.5	ug/L	165	Standard
>	Ge	72	270790.1	2.9				ug/L	292894	Standard
|	As	75	3121.1	2.7	0.0630	0.019	29.9	ug/L	3299	Standard
|	As-1	75	151.4	15.9	0.0065	0.017	260.4	ug/L	155	Standard
|	Se	77	51.3	13.7	0.0426	0.078	182.1	ug/L	51	Standard
|	Se	78	3710.8	3.1	0.3549	0.075	21.2	ug/L	3890	Standard
|	Br	79	140.7	10.4				ug/L	178	Standard
|	Se	82	112.0	15.2	0.0957	0.081	85.1	ug/L	103	Standard
|	Kr	83	107.7	12.6				ug/L	87	Standard
|	Y	89	703681.8	1.8				ug/L	741783	Standard
|	Rh	103	551419.3	1.7				ug/L	585307	Standard
|	Cd	111	422.0	10.8	0.0233	0.017	72.1	ug/L	391	Standard
|	Cd	114	16.2	33.2	0.0005	0.001	199.7	ug/L	14	Standard
>	In	115	379006.8	2.1				ug/L	404429	Standard
>	Tb	159	474896.0	0.1				ug/L	503700	Standard
|	Ho	165	483221.6	0.6				ug/L	510889	Standard
|	Pb	208	873.0	2.2	-0.0006	0.001	82.2	ug/L	952	Standard
|	Bi	209	348959.6	1.1				ug/L	360292	Standard
|	Th	232	480100.2	1.0				ug/L	489915	Standard
|	Cr-1	52	44.7	18.6	0.0019	0.011	595.3	ug/L	48	KED
|	Cr-1	53	7.3	20.8	0.0174	0.016	90.9	ug/L	6	KED
>	Ge-1	72	7779.8	0.9				ug/L	8634	KED
|	As-2	75	1.0	0.0	-0.0135	0.000	1.8	ug/L	2	KED
|	Y-1	89	13710.2	1.9				ug/L	15143	KED
|	Rh-1	103	88799.8	1.3				ug/L	96499	KED
|	Cd-1	111	1.3	43.3	0.0007	0.004	510.9	ug/L	1	KED
|	Cd-1	114	1.5	70.7	-0.0011	0.002	221.4	ug/L	2	KED
>	In-1	115	9285.0	1.6				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		92.156
|	Cr	52		
|	Cr	53		
>	Ge	72		92.453
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0209D1 2X

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Cd	114	
In	115	93.714
Tb	159	94.282
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	90.104
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	91.599

Quantitative Analysis - Summary Report

Sample ID: SB0209D1 2X

Sample Date/Time: Wednesday, February 09, 2022 12:59:25

Report Date/Time: Wednesday, February 09, 2022 13:43:00

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\SB0209D1 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	461377.6	1.6				ug/L	544521	Standard
|	Cr	52	417584.2	2.7	40.3317	0.455	1.1	ug/L	5186	Standard
|	Cr	53	47215.6	2.7	40.1350	0.562	1.4	ug/L	165	Standard
[>	Ge	72	249672.4	1.3				ug/L	292894	Standard
|	As	75	44526.1	2.2	40.0293	0.633	1.6	ug/L	3299	Standard
|	As-1	75	45025.2	2.2	39.7646	0.713	1.8	ug/L	155	Standard
|	Se	77	3549.4	0.5	41.7705	0.525	1.3	ug/L	51	Standard
|	Se	78	15428.0	2.3	40.8399	0.543	1.3	ug/L	3890	Standard
|	Br	79	133.7	4.3				ug/L	178	Standard
|	Se	82	6303.4	1.5	39.7651	0.424	1.1	ug/L	103	Standard
|	Kr	83	101.7	7.4				ug/L	87	Standard
|	Y	89	645673.1	0.8				ug/L	741783	Standard
|	Rh	103	502549.9	2.0				ug/L	585307	Standard
|	Cd	111	87486.9	0.7	40.5819	0.203	0.5	ug/L	391	Standard
|	Cd	114	209518.8	1.2	40.9148	0.692	1.7	ug/L	14	Standard
[>	In	115	345473.8	1.1				ug/L	404429	Standard
[>	Tb	159	433528.6	1.0				ug/L	503700	Standard
|	Ho	165	446598.5	0.7				ug/L	510889	Standard
|	Pb	208	1384662.2	0.5	40.6309	0.474	1.2	ug/L	952	Standard
|	Bi	209	317597.6	0.1				ug/L	360292	Standard
|	Th	232	443419.2	0.9				ug/L	489915	Standard
|	Cr-1	52	28025.5	0.6	39.7673	0.617	1.6	ug/L	48	KED
|	Cr-1	53	3351.4	2.5	38.9410	1.318	3.4	ug/L	6	KED
[>	Ge-1	72	7169.8	1.1				ug/L	8634	KED
|	As-2	75	1369.1	3.6	40.0421	1.072	2.7	ug/L	2	KED
|	Y-1	89	12668.6	0.4				ug/L	15143	KED
|	Rh-1	103	81305.4	0.8				ug/L	96499	KED
|	Cd-1	111	6233.7	2.5	40.3401	0.667	1.7	ug/L	1	KED
|	Cd-1	114	16434.7	0.8	40.3081	0.303	0.8	ug/L	2	KED
[>	In-1	115	8439.6	1.2				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		84.731
|	Cr	52		
|	Cr	53		
[>	Ge	72		85.243
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0209D1 2X

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Cd	114	
In	115	85.423
Tb	159	86.069
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	83.039
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	83.259

Quantitative Analysis - Summary Report

Sample ID: 02-092-01d 2X

Sample Date/Time: Wednesday, February 09, 2022 13:03:53

Report Date/Time: Wednesday, February 09, 2022 13:43:02

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\02-092-01d 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	509965.9	1.6				ug/L	544521	Standard
|	Cr	52	21719.5	1.0	1.4895	0.022	1.5	ug/L	5186	Standard
|	Cr	53	999.4	1.3	0.6520	0.011	1.6	ug/L	165	Standard
>	Ge	72	249193.7	1.7				ug/L	292894	Standard
|	As	75	5196.7	3.5	2.2968	0.095	4.2	ug/L	3299	Standard
|	As-1	75	2231.8	3.5	1.8633	0.036	1.9	ug/L	155	Standard
|	Se	77	75.0	6.9	0.3735	0.050	13.3	ug/L	51	Standard
|	Se	78	3792.5	3.8	1.6284	0.305	18.8	ug/L	3890	Standard
|	Br	79	18979.3	2.9				ug/L	178	Standard
|	Se	82	146.3	7.1	0.3741	0.057	15.1	ug/L	103	Standard
|	Kr	83	99.3	8.2				ug/L	87	Standard
|	Y	89	650030.1	1.3				ug/L	741783	Standard
|	Rh	103	480322.8	1.2				ug/L	585307	Standard
|	Cd	111	374.7	1.9	0.0220	0.004	15.9	ug/L	391	Standard
|	Cd	114	51.2	3.5	0.0078	0.000	3.6	ug/L	14	Standard
>	In	115	339127.4	0.8				ug/L	404429	Standard
>	Tb	159	438961.3	0.8				ug/L	503700	Standard
|	Ho	165	448891.9	0.4				ug/L	510889	Standard
|	Pb	208	890.3	4.0	0.0018	0.001	58.8	ug/L	952	Standard
|	Bi	209	294162.4	0.4				ug/L	360292	Standard
|	Th	232	441727.7	0.2				ug/L	489915	Standard
|	Cr-1	52	315.7	2.7	0.4098	0.014	3.5	ug/L	48	KED
|	Cr-1	53	41.3	24.5	0.4388	0.122	27.7	ug/L	6	KED
>	Ge-1	72	6895.3	0.5				ug/L	8634	KED
|	As-2	75	64.3	10.6	1.9180	0.203	10.6	ug/L	2	KED
|	Y-1	89	12400.7	0.2				ug/L	15143	KED
|	Rh-1	103	75229.6	0.9				ug/L	96499	KED
|	Cd-1	111	2.3	99.0	0.0086	0.016	183.4	ug/L	1	KED
|	Cd-1	114	4.3	23.7	0.0064	0.003	42.4	ug/L	2	KED
>	In-1	115	8139.3	0.9				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.654
|	Cr	52		
|	Cr	53		
>	Ge	72		85.080
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-01d 2X

Report Date/Time: Wednesday, February 09, 2022 13:43:02

Cd	114	
In	115	83.853
Tb	159	87.147
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	79.860
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	80.297

Quantitative Analysis - Summary Report

Sample ID: 02-092-02d 2X

Sample Date/Time: Wednesday, February 09, 2022 13:08:20

Report Date/Time: Wednesday, February 09, 2022 13:43:04

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02d 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	513176.7	1.7				ug/L	544521	Standard
	Cr	52	19684.9	2.4	1.2986	0.020	1.5	ug/L	5186	Standard
	Cr	53	2945.6	0.9	2.1393	0.025	1.2	ug/L	165	Standard
>	Ge	72	254877.9	2.2				ug/L	292894	Standard
	As	75	3750.0	3.4	0.8259	0.051	6.2	ug/L	3299	Standard
	As-1	75	930.1	7.3	0.6895	0.043	6.2	ug/L	155	Standard
	Se	77	182.3	1.7	1.6076	0.072	4.5	ug/L	51	Standard
	Se	78	3753.8	2.4	1.2176	0.137	11.2	ug/L	3890	Standard
	Br	79	42899.3	2.4				ug/L	178	Standard
	Se	82	197.0	5.2	0.6710	0.054	8.1	ug/L	103	Standard
	Kr	83	94.7	8.5				ug/L	87	Standard
	Y	89	665214.3	0.9				ug/L	741783	Standard
	Rh	103	486456.0	1.7				ug/L	585307	Standard
	Cd	111	386.3	7.5	0.0244	0.014	57.4	ug/L	391	Standard
	Cd	114	42.2	19.7	0.0059	0.002	28.0	ug/L	14	Standard
>	In	115	345037.9	0.5				ug/L	404429	Standard
>	Tb	159	444634.1	0.2				ug/L	503700	Standard
	Ho	165	455350.3	0.5				ug/L	510889	Standard
	Pb	208	1280.7	1.2	0.0126	0.000	2.9	ug/L	952	Standard
	Bi	209	300363.9	0.7				ug/L	360292	Standard
	Th	232	447228.6	0.2				ug/L	489915	Standard
	Cr-1	52	441.0	7.4	0.5852	0.063	10.8	ug/L	48	KED
	Cr-1	53	57.7	14.7	0.6267	0.117	18.7	ug/L	6	KED
>	Ge-1	72	7010.7	2.4				ug/L	8634	KED
	As-2	75	15.7	13.3	0.4280	0.053	12.5	ug/L	2	KED
	Y-1	89	12578.9	1.5				ug/L	15143	KED
	Rh-1	103	76586.1	0.4				ug/L	96499	KED
	Cd-1	111	1.7	34.6	0.0038	0.004	101.0	ug/L	1	KED
	Cd-1	114	2.4	43.7	0.0013	0.003	196.5	ug/L	2	KED
>	In-1	115	8292.4	1.2				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.244
	Cr	52		
	Cr	53		
>	Ge	72		87.021
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-02d 2X

Report Date/Time: Wednesday, February 09, 2022 13:43:04

—	Cd	114	
↳	In	115	85.315
↳	Tb	159	88.274
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	81.196
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	81.807

Quantitative Analysis - Summary Report

Sample ID: 02-092-02dD 2X

Sample Date/Time: Wednesday, February 09, 2022 13:12:47

Report Date/Time: Wednesday, February 09, 2022 13:43:06

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dD 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	508494.7	0.5				ug/L	544521	Standard
|	Cr	52	20006.0	1.8	1.3430	0.025	1.9	ug/L	5186	Standard
|	Cr	53	3147.3	3.3	2.3157	0.070	3.0	ug/L	165	Standard
>	Ge	72	251164.3	1.4				ug/L	292894	Standard
|	As	75	3716.5	2.8	0.8463	0.067	8.0	ug/L	3299	Standard
|	As-1	75	841.7	6.5	0.6241	0.047	7.5	ug/L	155	Standard
|	Se	77	175.0	7.4	1.5520	0.168	10.8	ug/L	51	Standard
|	Se	78	3774.8	3.5	1.4691	0.286	19.4	ug/L	3890	Standard
|	Br	79	42709.4	0.6				ug/L	178	Standard
|	Se	82	180.3	12.2	0.5825	0.129	22.1	ug/L	103	Standard
|	Kr	83	94.7	10.8				ug/L	87	Standard
|	Y	89	660038.3	0.7				ug/L	741783	Standard
|	Rh	103	484539.1	0.7				ug/L	585307	Standard
|	Cd	111	371.9	1.9	0.0169	0.003	18.5	ug/L	391	Standard
|	Cd	114	39.7	28.6	0.0053	0.002	41.4	ug/L	14	Standard
>	In	115	346573.9	0.4				ug/L	404429	Standard
>	Tb	159	446357.8	0.6				ug/L	503700	Standard
|	Ho	165	451745.8	0.3				ug/L	510889	Standard
|	Pb	208	1173.7	3.1	0.0094	0.001	13.2	ug/L	952	Standard
|	Bi	209	300372.7	0.4				ug/L	360292	Standard
|	Th	232	445568.8	0.6				ug/L	489915	Standard
|	Cr-1	52	467.7	4.0	0.6311	0.021	3.3	ug/L	48	KED
|	Cr-1	53	53.0	5.0	0.5773	0.035	6.1	ug/L	6	KED
>	Ge-1	72	6926.0	1.0				ug/L	8634	KED
|	As-2	75	20.3	7.5	0.5761	0.051	8.9	ug/L	2	KED
|	Y-1	89	12716.3	1.1				ug/L	15143	KED
|	Rh-1	103	76660.5	1.1				ug/L	96499	KED
|	Cd-1	111	2.7	78.1	0.0105	0.014	131.3	ug/L	1	KED
|	Cd-1	114	6.2	89.1	0.0108	0.014	126.6	ug/L	2	KED
>	In-1	115	8275.8	1.9				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.384
|	Cr	52		
|	Cr	53		
>	Ge	72		85.753
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-02dD 2X

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Cd	114	
In	115	85.695
Tb	159	88.616
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	80.215
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	81.643

Quantitative Analysis - Summary Report

Sample ID: 02-092-02dL 10X

Sample Date/Time: Wednesday, February 09, 2022 13:17:15

Report Date/Time: Wednesday, February 09, 2022 13:43:08

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dL 10X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	478836.6	0.7				ug/L	544521	Standard
|	Cr	52	9728.0	1.3	0.4860	0.006	1.2	ug/L	5186	Standard
|	Cr	53	1193.0	4.1	0.8610	0.033	3.9	ug/L	165	Standard
>	Ge	72	254043.8	2.0				ug/L	292894	Standard
|	As	75	3276.3	1.1	0.3923	0.088	22.5	ug/L	3299	Standard
|	As-1	75	302.3	4.8	0.1461	0.009	5.9	ug/L	155	Standard
|	Se	77	92.0	17.1	0.5546	0.172	31.0	ug/L	51	Standard
|	Se	78	3717.5	0.8	1.1419	0.321	28.1	ug/L	3890	Standard
|	Br	79	11781.2	3.1				ug/L	178	Standard
|	Se	82	112.7	11.0	0.1444	0.069	47.8	ug/L	103	Standard
|	Kr	83	98.0	3.5				ug/L	87	Standard
|	Y	89	659571.2	1.4				ug/L	741783	Standard
|	Rh	103	500311.4	2.0				ug/L	585307	Standard
|	Cd	111	346.0	4.1	0.0031	0.008	261.0	ug/L	391	Standard
|	Cd	114	18.0	21.1	0.0011	0.001	70.5	ug/L	14	Standard
>	In	115	350566.9	1.0				ug/L	404429	Standard
>	Tb	159	440609.9	0.8				ug/L	503700	Standard
|	Ho	165	451210.7	0.5				ug/L	510889	Standard
|	Pb	208	588.0	3.1	-0.0071	0.001	7.7	ug/L	952	Standard
|	Bi	209	310817.9	0.5				ug/L	360292	Standard
|	Th	232	443807.7	0.3				ug/L	489915	Standard
|	Cr-1	52	160.0	5.4	0.1729	0.014	8.2	ug/L	48	KED
|	Cr-1	53	20.7	15.6	0.1819	0.041	22.6	ug/L	6	KED
>	Ge-1	72	7105.1	1.6				ug/L	8634	KED
|	As-2	75	3.3	62.4	0.0578	0.062	106.6	ug/L	2	KED
|	Y-1	89	12644.6	0.3				ug/L	15143	KED
|	Rh-1	103	78955.3	0.4				ug/L	96499	KED
|	Cd-1	111	1.3	114.6	0.0012	0.009	798.1	ug/L	1	KED
|	Cd-1	114	3.9	14.5	0.0048	0.002	31.3	ug/L	2	KED
>	In-1	115	8582.4	2.2				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		87.937
|	Cr	52		
|	Cr	53		
>	Ge	72		86.736
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-02dL 10X

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]	Cd	114	
[In	115	86.682
]	Tb	159	87.475
[Ho	165	
]	Pb	208	
[Bi	209	
]	Th	232	
[Cr-1	52	
]	Cr-1	53	
[Ge-1	72	82.289
]	As-2	75	
[	Y-1	89	
]	Rh-1	103	
[	Cd-1	111	
]	Cd-1	114	
[	In-1	115	84.667

Quantitative Analysis - Summary Report

Sample ID: 02-092-02dMS 2X

Sample Date/Time: Wednesday, February 09, 2022 13:21:43

Report Date/Time: Wednesday, February 09, 2022 13:43:10

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dMS 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	520811.2	2.0				ug/L	544521	Standard
|	Cr	52	437569.6	2.9	37.4099	0.586	1.6	ug/L	5186	Standard
|	Cr	53	50373.0	2.2	37.9320	0.638	1.7	ug/L	165	Standard
>	Ge	72	257596.2	4.0				ug/L	292894	Standard
|	As	75	49052.6	1.6	42.9572	1.140	2.7	ug/L	3299	Standard
|	As-1	75	49616.3	1.0	42.5156	1.346	3.2	ug/L	155	Standard
|	Se	77	3974.9	2.5	45.4006	0.950	2.1	ug/L	51	Standard
|	Se	78	16765.8	3.0	43.6347	0.804	1.8	ug/L	3890	Standard
|	Br	79	43209.3	0.9				ug/L	178	Standard
|	Se	82	6859.6	1.0	42.0126	1.501	3.6	ug/L	103	Standard
|	Kr	83	102.3	10.4				ug/L	87	Standard
|	Y	89	670127.3	2.1				ug/L	741783	Standard
|	Rh	103	497449.6	1.2				ug/L	585307	Standard
|	Cd	111	87298.0	1.2	39.6811	0.288	0.7	ug/L	391	Standard
|	Cd	114	206221.4	0.3	39.4643	0.106	0.3	ug/L	14	Standard
>	In	115	352503.4	0.5				ug/L	404429	Standard
>	Tb	159	451707.5	0.8				ug/L	503700	Standard
|	Ho	165	459840.8	1.0				ug/L	510889	Standard
|	Pb	208	1338500.0	0.8	37.6917	0.249	0.7	ug/L	952	Standard
|	Bi	209	306278.5	0.6				ug/L	360292	Standard
|	Th	232	459016.9	0.5				ug/L	489915	Standard
|	Cr-1	52	27697.8	1.2	40.3292	0.643	1.6	ug/L	48	KED
|	Cr-1	53	3336.1	0.5	39.7713	0.398	1.0	ug/L	6	KED
>	Ge-1	72	6987.4	1.4				ug/L	8634	KED
|	As-2	75	1404.4	3.4	42.1755	2.023	4.8	ug/L	2	KED
|	Y-1	89	12734.0	0.4				ug/L	15143	KED
|	Rh-1	103	77594.8	0.8				ug/L	96499	KED
|	Cd-1	111	6074.3	0.4	38.5560	0.668	1.7	ug/L	1	KED
|	Cd-1	114	15790.5	0.7	37.9810	0.539	1.4	ug/L	2	KED
>	In-1	115	8606.7	1.9				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int. Std % Recovery
>	Sc	45		95.646
|	Cr	52		
|	Cr	53		
>	Ge	72		87.949
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 02-092-02dMS 2X

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	Cd	114	
>	In	115	87.161
>	Tb	159	89.678
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	80.926
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	84.907

Quantitative Analysis - Summary Report

Sample ID: 02-092-02dMSD 2X

Sample Date/Time: Wednesday, February 09, 2022 13:26:12

Report Date/Time: Wednesday, February 09, 2022 13:43:12

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\02-092-02dMSD 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	520713.1	0.2				ug/L	544521	Standard
|	Cr	52	427230.5	0.7	36.5260	0.307	0.8	ug/L	5186	Standard
|	Cr	53	50163.6	1.8	37.7793	0.735	1.9	ug/L	165	Standard
>	Ge	72	255388.5	1.3				ug/L	292894	Standard
|	As	75	48291.9	1.7	42.6058	0.202	0.5	ug/L	3299	Standard
|	As-1	75	48908.7	1.1	42.2356	0.063	0.1	ug/L	155	Standard
|	Se	77	3924.9	1.3	45.2006	1.043	2.3	ug/L	51	Standard
|	Se	78	16752.8	1.1	44.0485	0.124	0.3	ug/L	3890	Standard
|	Br	79	43551.6	1.3				ug/L	178	Standard
|	Se	82	6878.7	0.9	42.4672	0.892	2.1	ug/L	103	Standard
|	Kr	83	84.7	15.0				ug/L	87	Standard
|	Y	89	676641.0	0.9				ug/L	741783	Standard
|	Rh	103	495200.1	0.6				ug/L	585307	Standard
|	Cd	111	86222.4	1.0	39.1387	0.652	1.7	ug/L	391	Standard
|	Cd	114	204463.1	1.3	39.0715	0.284	0.7	ug/L	14	Standard
>	In	115	353020.4	1.5				ug/L	404429	Standard
>	Tb	159	451246.2	0.7				ug/L	503700	Standard
|	Ho	165	456326.5	1.4				ug/L	510889	Standard
|	Pb	208	1321608.2	0.4	37.2538	0.111	0.3	ug/L	952	Standard
|	Bi	209	302986.8	0.9				ug/L	360292	Standard
|	Th	232	453278.8	0.8				ug/L	489915	Standard
|	Cr-1	52	27046.2	1.0	39.7071	0.546	1.4	ug/L	48	KED
|	Cr-1	53	3328.1	1.4	40.0045	0.431	1.1	ug/L	6	KED
>	Ge-1	72	6929.3	0.7				ug/L	8634	KED
|	As-2	75	1378.4	1.6	41.7214	0.490	1.2	ug/L	2	KED
|	Y-1	89	12651.3	1.5				ug/L	15143	KED
|	Rh-1	103	77195.3	0.8				ug/L	96499	KED
|	Cd-1	111	6129.0	0.6	39.6281	0.414	1.0	ug/L	1	KED
|	Cd-1	114	15695.6	0.7	38.4572	0.283	0.7	ug/L	2	KED
>	In-1	115	8448.2	1.4				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		95.628
|	Cr	52		
|	Cr	53		
>	Ge	72		87.195
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 02-092-02dMSD 2X

Report Date/Time: Wednesday, February 09, 2022 13:43:12

Cd	114	
In	115	87.289
Tb	159	89.586
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	80.254
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	83.344

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, February 09, 2022 13:30:41

Report Date/Time: Wednesday, February 09, 2022 13:43:14

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	474780.7	0.3				ug/L	544521	Standard
|	Cr	52	430172.8	1.0	40.3804	0.460	1.1	ug/L	5186	Standard
|	Cr	53	48614.3	2.3	40.1625	1.019	2.5	ug/L	165	Standard
[>	Ge	72	257070.4	2.7				ug/L	292894	Standard
|	As	75	46472.6	2.0	40.6206	0.303	0.7	ug/L	3299	Standard
|	As-1	75	46816.5	1.9	40.1642	0.360	0.9	ug/L	155	Standard
|	Se	77	3606.8	3.9	41.2157	1.350	3.3	ug/L	51	Standard
|	Se	78	16133.8	2.7	41.6641	0.971	2.3	ug/L	3890	Standard
|	Br	79	465.3	7.3				ug/L	178	Standard
|	Se	82	6510.8	2.1	39.9009	0.729	1.8	ug/L	103	Standard
|	Kr	83	96.3	12.6				ug/L	87	Standard
|	Y	89	661632.3	1.3				ug/L	741783	Standard
|	Rh	103	516039.1	0.3				ug/L	585307	Standard
|	Cd	111	90867.3	0.6	40.7012	0.301	0.7	ug/L	391	Standard
|	Cd	114	215054.0	1.0	40.5500	0.541	1.3	ug/L	14	Standard
[>	In	115	357766.6	0.3				ug/L	404429	Standard
[>	Tb	159	449469.0	0.3				ug/L	503700	Standard
|	Ho	165	458699.2	0.4				ug/L	510889	Standard
|	Pb	208	1408912.4	0.3	39.8731	0.138	0.3	ug/L	952	Standard
|	Bi	209	322502.3	0.1				ug/L	360292	Standard
|	Th	232	449468.1	0.7				ug/L	489915	Standard
|	Cr-1	52	28071.2	1.8	40.0783	0.337	0.8	ug/L	48	KED
|	Cr-1	53	3428.7	3.0	40.0827	0.981	2.4	ug/L	6	KED
[>	Ge-1	72	7125.4	2.1				ug/L	8634	KED
|	As-2	75	1357.4	3.8	39.9525	1.181	3.0	ug/L	2	KED
|	Y-1	89	12781.1	3.2				ug/L	15143	KED
|	Rh-1	103	81102.9	1.5				ug/L	96499	KED
|	Cd-1	111	6346.1	1.4	40.4031	0.861	2.1	ug/L	1	KED
|	Cd-1	114	16493.9	1.5	39.7928	0.727	1.8	ug/L	2	KED
[>	In-1	115	8582.3	3.0				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		87.192
|	Cr	52	100.951	
|	Cr	53	100.406	
[>	Ge	72		87.769
|	As	75	101.551	
|	As-1	75	100.410	
|	Se	77	103.039	
|	Se	78	104.160	
|	Br	79		
|	Se	82	99.752	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	101.753	

Sample ID: QC Std 6

Report Date/Time: Wednesday, February 09, 2022 13:43:14

|	Cd	114	101.375	
|>	In	115		88.462
|>	Tb	159		89.234
|	Ho	165		
|	Pb	208	99.683	
|	Bi	209		
|	Th	232		
|	Cr-1	52	100.196	
|	Cr-1	53	100.207	
|>	Ge-1	72		82.525
|	As-2	75	99.881	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	101.008	
|	Cd-1	114	99.482	
|>	In-1	115		84.667

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, February 09, 2022 13:35:10

Report Date/Time: Wednesday, February 09, 2022 13:43:15

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	477720.0	1.5				ug/L	544521	Standard
|	Cr	52	223516.6	1.5	20.6447	0.038	0.2	ug/L	5186	Standard
|	Cr	53	24812.2	2.8	20.3106	0.281	1.4	ug/L	165	Standard
>	Ge	72	259675.1	1.3				ug/L	292894	Standard
|	As	75	25146.9	3.7	20.4992	0.554	2.7	ug/L	3299	Standard
|	As-1	75	23843.1	3.3	20.1856	0.410	2.0	ug/L	155	Standard
|	Se	77	1855.8	1.2	20.7377	0.210	1.0	ug/L	51	Standard
|	Se	78	9998.2	2.8	21.2307	0.478	2.3	ug/L	3890	Standard
|	Br	79	304.0	12.0				ug/L	178	Standard
|	Se	82	3345.4	4.4	20.0157	0.879	4.4	ug/L	103	Standard
|	Kr	83	111.3	18.1				ug/L	87	Standard
|	Y	89	672435.0	1.6				ug/L	741783	Standard
|	Rh	103	518946.5	1.3				ug/L	585307	Standard
|	Cd	111	46008.7	1.5	20.3405	0.282	1.4	ug/L	391	Standard
|	Cd	114	108608.0	0.8	20.2885	0.167	0.8	ug/L	14	Standard
>	In	115	361108.5	1.1				ug/L	404429	Standard
>	Tb	159	449053.9	1.5				ug/L	503700	Standard
|	Ho	165	459418.2	1.1				ug/L	510889	Standard
|	Pb	208	717019.2	0.8	20.3006	0.165	0.8	ug/L	952	Standard
|	Bi	209	324146.8	1.0				ug/L	360292	Standard
|	Th	232	450396.6	1.0				ug/L	489915	Standard
|	Cr-1	52	14235.4	1.0	19.8678	0.323	1.6	ug/L	48	KED
|	Cr-1	53	1726.8	1.3	19.7286	0.184	0.9	ug/L	6	KED
>	Ge-1	72	7278.9	0.6				ug/L	8634	KED
|	As-2	75	699.0	5.6	20.1264	1.246	6.2	ug/L	2	KED
|	Y-1	89	12973.2	0.5				ug/L	15143	KED
|	Rh-1	103	82161.3	0.9				ug/L	96499	KED
|	Cd-1	111	3250.7	0.6	20.3195	0.097	0.5	ug/L	1	KED
|	Cd-1	114	8459.0	0.3	20.0395	0.176	0.9	ug/L	2	KED
>	In-1	115	8736.4	0.7				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		87.732
|	Cr	52	103.223	
|	Cr	53	101.553	
>	Ge	72		88.658
|	As	75	102.496	
|	As-1	75	100.928	
|	Se	77	103.688	
|	Se	78	106.153	
|	Br	79		
|	Se	82	100.079	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	101.702	

Sample ID: QC Std 7

Report Date/Time: Wednesday, February 09, 2022 13:43:15

Page 1

Cd	114	101.442	
In	115		89.288
Tb	159		89.151
Ho	165		
Pb	208	101.503	
Bi	209		
Th	232		
Cr-1	52	99.339	
Cr-1	53	98.643	
Ge-1	72		84.302
As-2	75	100.632	
Y-1	89		
Rh-1	103		
Cd-1	111	101.598	
Cd-1	114	100.197	
In-1	115		86.187

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, February 09, 2022 13:39:38

Report Date/Time: Wednesday, February 09, 2022 13:43:17

Method File: C:\NexIONData_kmckinney\Method\X220209B.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220209B\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	524435.6	1.2				ug/L	544521	Standard
|	Cr	52	5162.6	2.2	0.0144	0.010	71.9	ug/L	5186	Standard
|	Cr	53	198.0	14.4	0.0298	0.023	78.1	ug/L	165	Standard
[>	Ge	72	281306.2	2.2				ug/L	292894	Standard
|	As	75	3204.7	1.1	0.0313	0.043	138.4	ug/L	3299	Standard
|	As-1	75	127.9	12.3	-0.0166	0.010	62.0	ug/L	155	Standard
|	Se	77	53.3	15.2	0.0417	0.074	178.4	ug/L	51	Standard
|	Se	78	3808.2	1.2	0.2172	0.164	75.5	ug/L	3890	Standard
|	Br	79	272.7	5.1				ug/L	178	Standard
|	Se	82	101.7	10.0	0.0131	0.046	351.0	ug/L	103	Standard
|	Kr	83	115.3	7.8				ug/L	87	Standard
|	Y	89	733418.9	0.6				ug/L	741783	Standard
|	Rh	103	564785.6	1.5				ug/L	585307	Standard
|	Cd	111	455.2	3.5	0.0316	0.006	19.3	ug/L	391	Standard
|	Cd	114	18.1	40.4	0.0008	0.001	170.8	ug/L	14	Standard
[>	In	115	390840.2	0.5				ug/L	404429	Standard
[>	Tb	159	491832.9	0.4				ug/L	503700	Standard
|	Ho	165	501282.9	0.6				ug/L	510889	Standard
|	Pb	208	899.7	4.8	-0.0008	0.001	153.6	ug/L	952	Standard
|	Bi	209	350661.2	0.3				ug/L	360292	Standard
|	Th	232	490203.3	0.2				ug/L	489915	Standard
|	Cr-1	52	40.0	4.3	-0.0054	0.003	51.6	ug/L	48	KED
|	Cr-1	53	4.3	13.3	-0.0158	0.006	35.3	ug/L	6	KED
[>	Ge-1	72	7956.2	1.5				ug/L	8634	KED
|	As-2	75	0.7	86.6	-0.0229	0.015	66.7	ug/L	2	KED
|	Y-1	89	14246.8	1.6				ug/L	15143	KED
|	Rh-1	103	90242.1	1.0				ug/L	96499	KED
|	Cd-1	111	1.7	69.3	0.0023	0.007	286.3	ug/L	1	KED
|	Cd-1	114	3.7	31.8	0.0033	0.003	75.8	ug/L	2	KED
[>	In-1	115	9604.3	0.1				ug/L	10137	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.311
|	Cr	52		
|	Cr	53		
[>	Ge	72		96.044
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Wednesday, February 09, 2022 13:43:17

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Cd	114	
In	115	96.640
Tb	159	97.644
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	92.147
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	94.748

Dissolved Methane
RSK 175

Data File : e:\1\DATA\L220216\0216006.D
 Acq On : 16 Feb 2022 12:49
 Sample : 02-092-01 3X
 Misc :

Vial: 6
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 12:47 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2591792	648.831 ppm
2) Ethane	0.69	2591792	308.019 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220216\0216006.D
Acq On : 16 Feb 2022 12:49
Sample : 02-092-01 3X
Misc :

Vial: 6
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

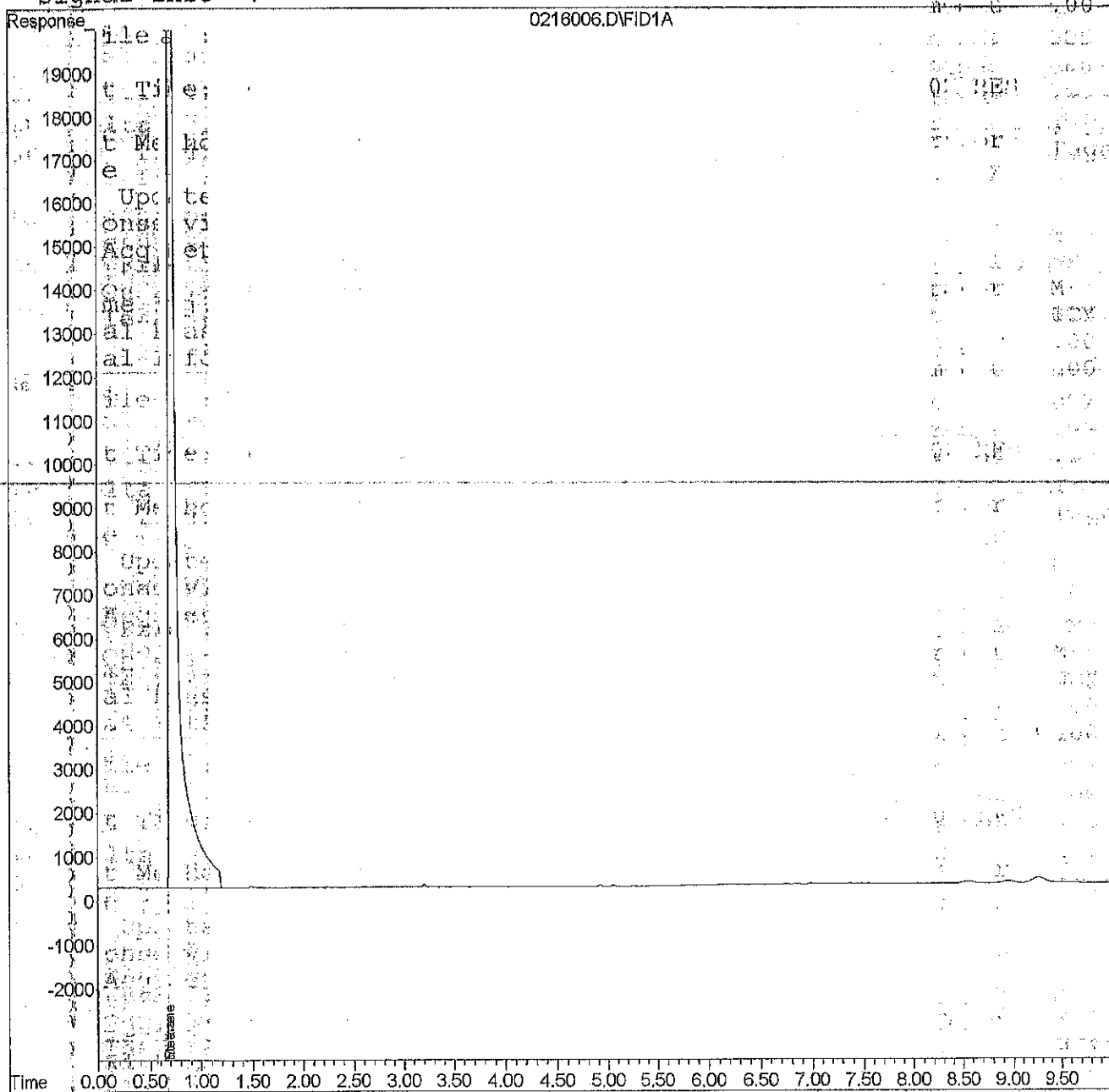
IntFile : autoint1.e

Quant Time: Feb 16 12:47 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :

M
JOY
1.00
1.00



Data File : e:\1\DATA\L220216\0216008.D
Acq On : 16 Feb 2022 13:19
Sample : 02-092-02 2X
Misc :

Vial: 8
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 13:22 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Initial Calibration
DataAcq Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :

1
M
UCY
100
.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2449740	613,177 ppm
2) Ethane	0.69	2449740	291,120 ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220216\0216008.D
 Acq On : 16 Feb 2022 13:19
 Sample : 02-092-02 2X
 Misc :

Vial: 8
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

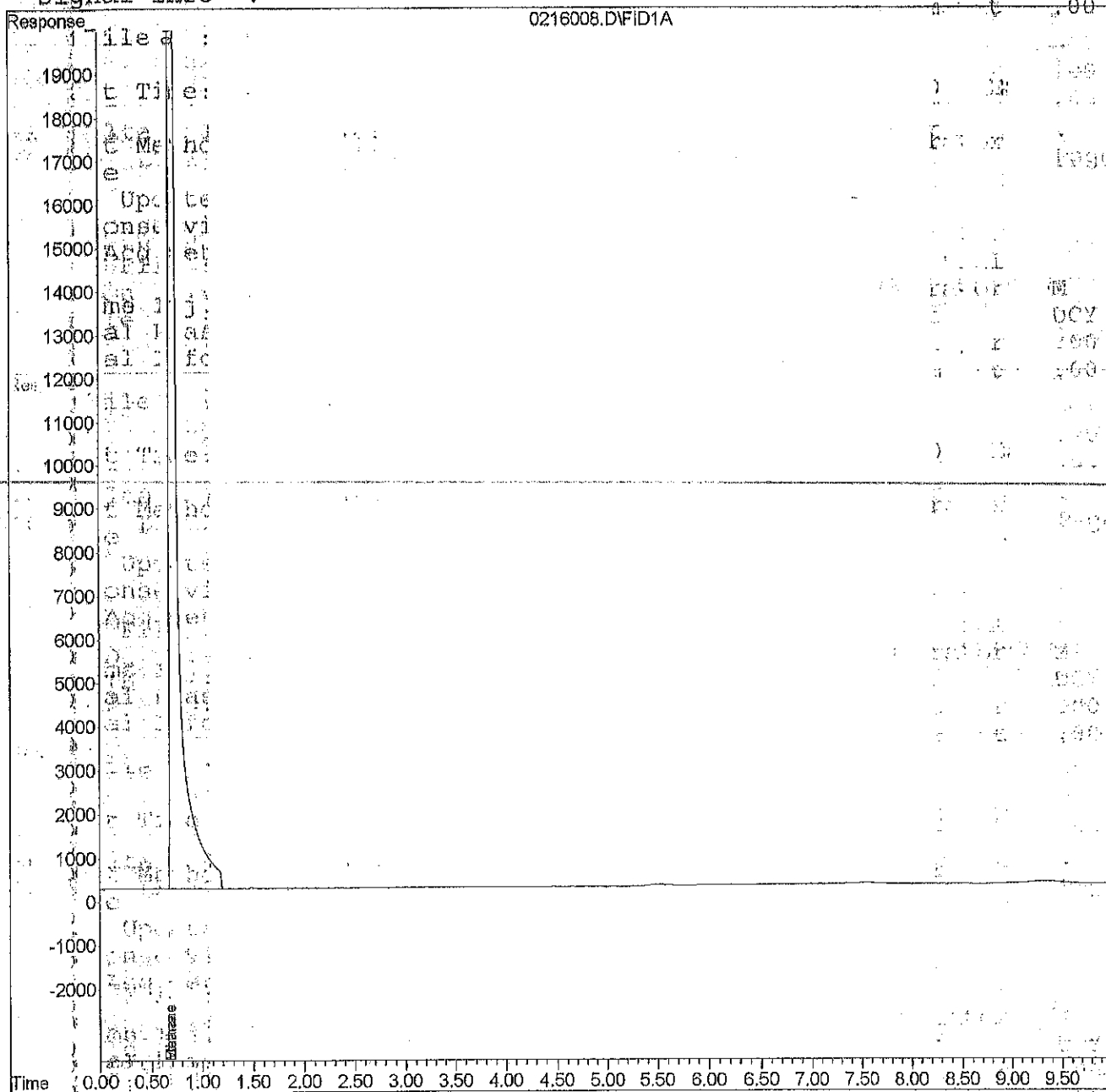
IntFile : autoint1.e

Quant Time: Feb 16 13:22 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Operator: M
 LUCY
 1.00
 0.00



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220216\0216002.D
 Acq On : 16 Feb 2022 11:33
 Sample : MB0216W1
 Misc :

Vial: 2
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 11:58 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

UCY
 100
 amount 0.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.74	8253	0.368 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) 1-Butene	0.00	0	N.D. ppm

*2/16/22
NM*

Quantitation Report

Data File : E:\1\DATA\L220216\0216002.D
 Acq On : 16 Feb 2022 11:33
 Sample : MB0216W1
 Misc :

Vial: 2
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

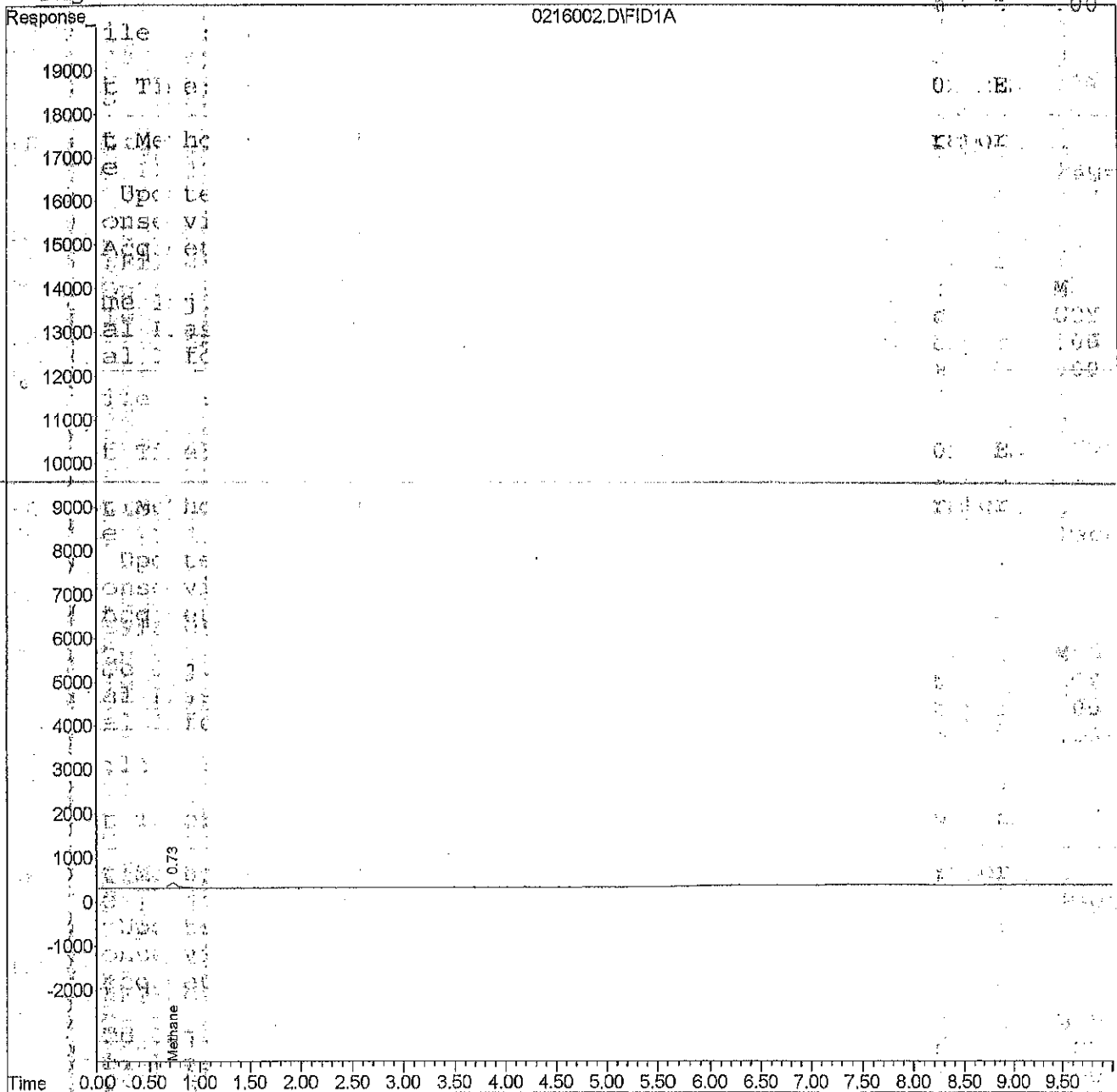
Quant Time: Feb 16 11:58 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Multiple Level Calibration
 DataAcq Meth : L211202.M

Page

Volume Inj :
 Signal Phase :
 Signal Info :

M
 UCY
 1.00
 0.00



Data File : e:\1\DATA\L220216\0216003.D
 Acq On : 16 Feb 2022 11:48
 Sample : SB0216W1
 Misc :

Vial: 3
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 11:49 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
1) Methane	0.70	1472849	367.979 ppm
2) Ethane	0.84	2893751	343.943 ppm
3) Ethene	1.07	2158474	244.781 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220216\0216003.D
Acq On : 16 Feb 2022 11:48
Sample : SB0216W1
Misc :

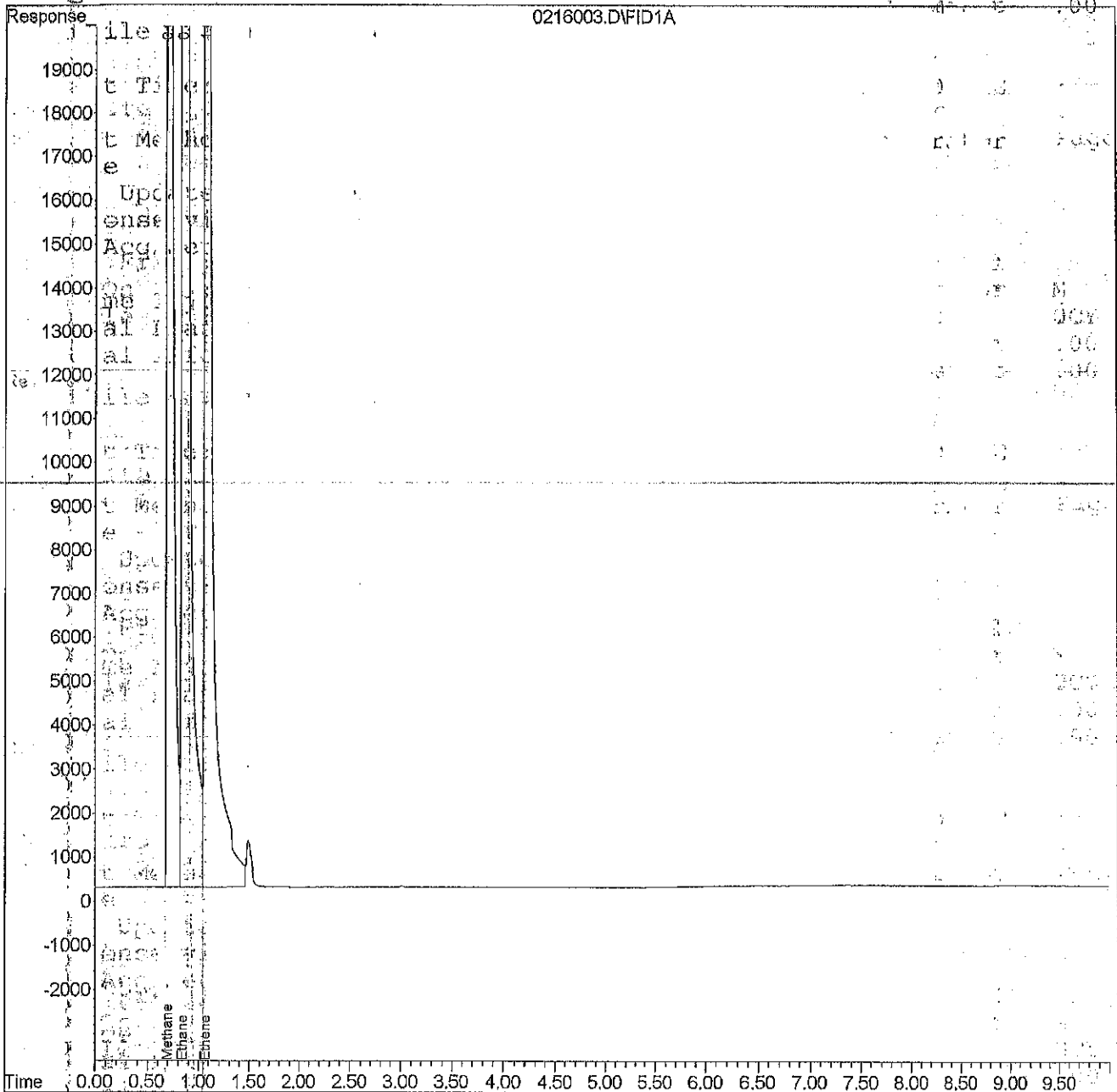
Vial: 3
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 11:49 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : e:\1\DATA\L220216\0216004.D
 Acq On : 16 Feb 2022 12:03
 Sample : SB0216W1 DUP
 Misc :
 IntFile : autoint1.e

Vial: 4
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

Quant Time: Feb 16 12:02 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	1515698	378.734 ppm
2) Ethane	0.84	2950870	350.739 ppm
3) Ethene	1.07	2175111	246.668 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220216\0216004.D
Acq On : 16 Feb 2022 12:03
Sample : SB0216W1 DUP
Misc :

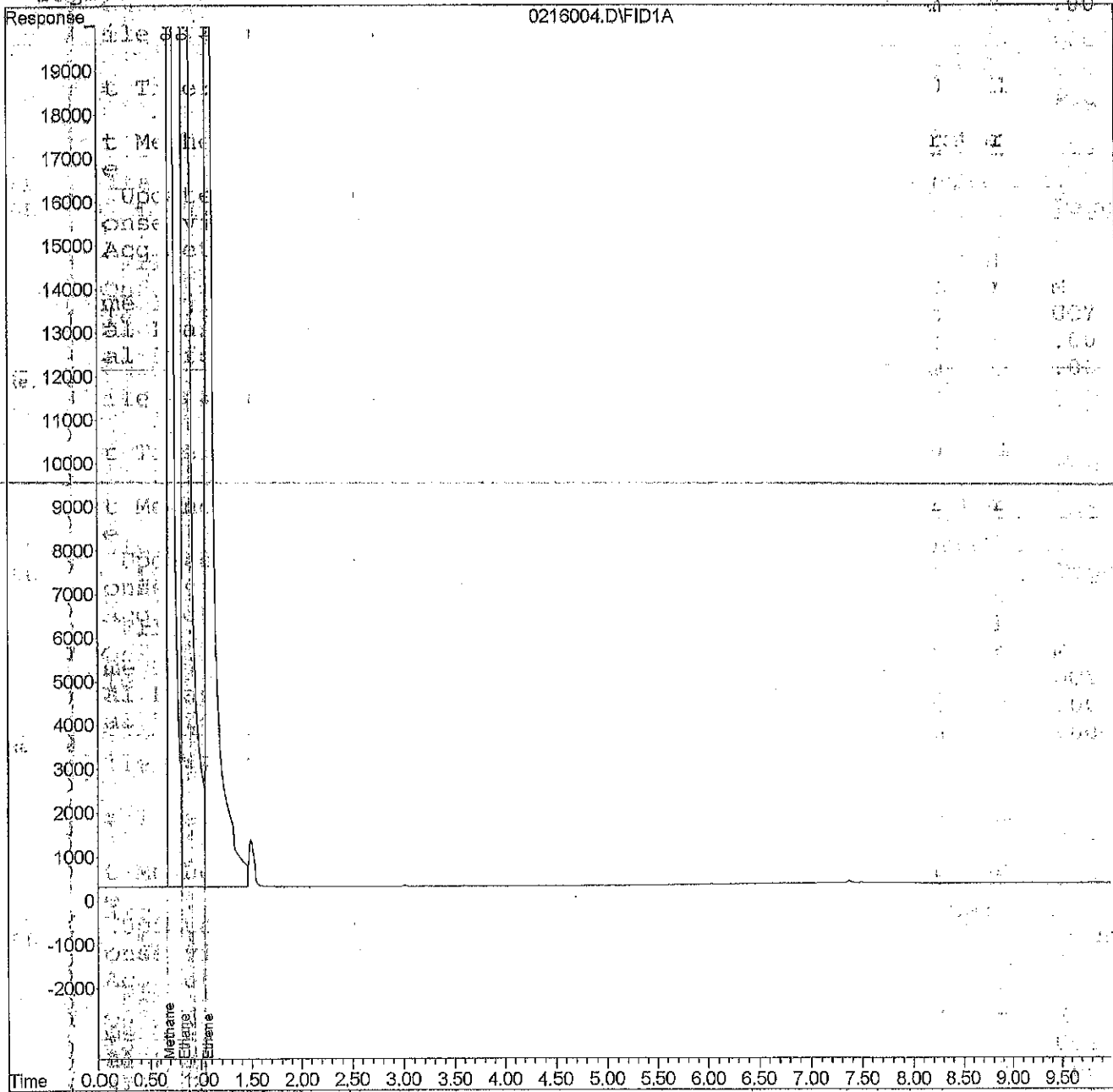
Vial: 4
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 12:02 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : e:\1\DATA\L220216\0208001.D
 Acq On : 16 Feb 2022 10:48
 Sample : CCV0216DG-L1
 Misc : DG1-002-24

Vial: 1
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 10:49 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1919513	480.091 ppm
2) Ethane	0.84	4078331	484.872 ppm
3) Ethene	1.07	4294981	487.087 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220216\0208001.D
Acq On : 16 Feb 2022 10:48
Sample : CCV0216DG-L1
Misc : DG1-002-24

Vial: 1
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

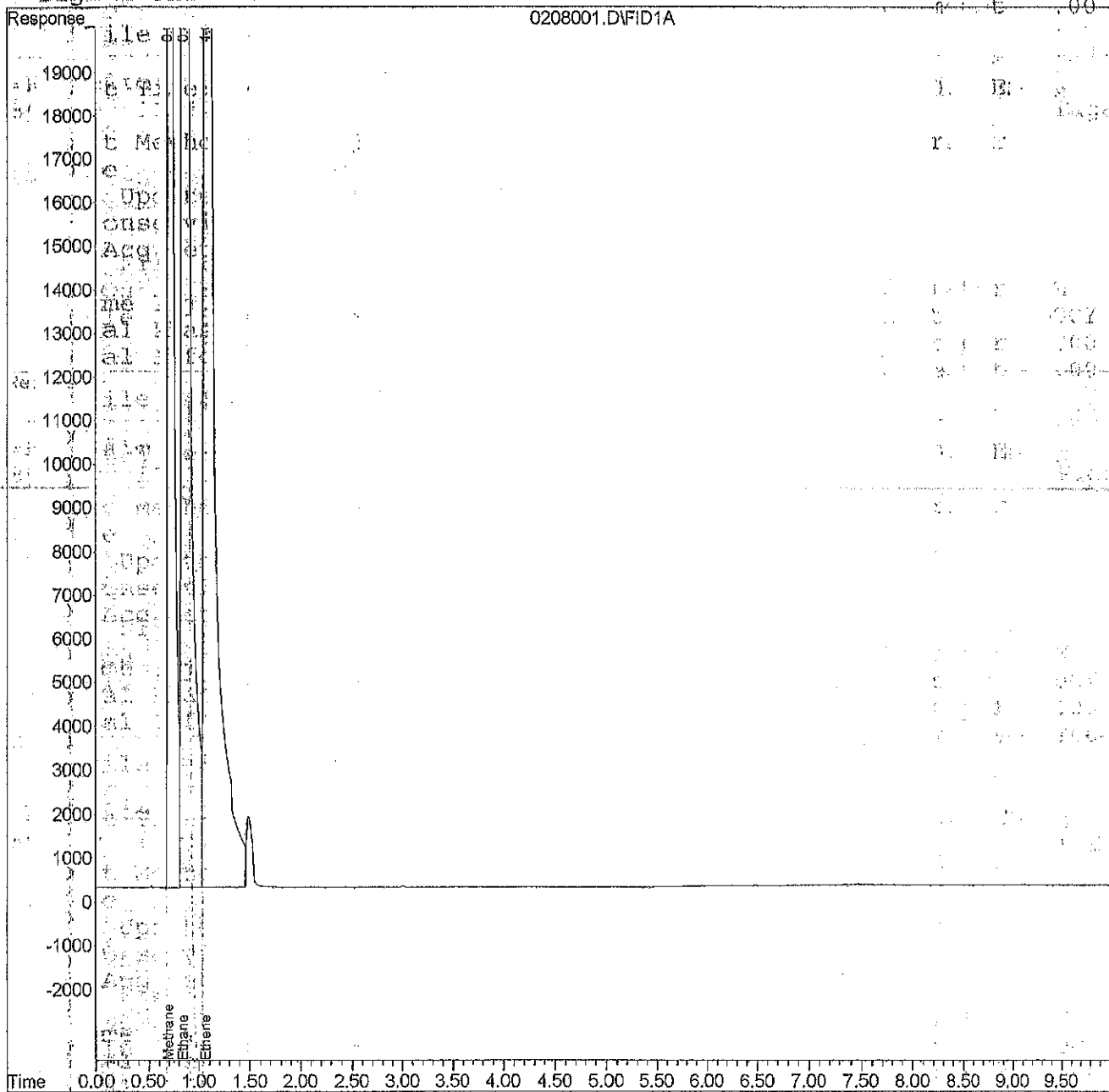
IntFile : autoint1.e

Quant Time: Feb 16 10:49 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :

M
JCY
100
100



Quantitation Report (Not Reviewed)

Data File : e:\1\DATA\L220216\0216009.D
 Acq On : 16 Feb 2022 13:34
 Sample : CCV0216DG-L2
 Misc :

Vial: 9
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 13:36 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Dec 02 14:49:12 2021
 Response via : Initial Calibration
 DataAcq Meth : L211202.M

Volume Inj : M
 Signal Phase : UCY
 Signal Info : 100
 100

Compound	R.T.	Response	Conc Units

Target Compounds			0
1) Methane	0.70	1924610	481.370 ppm
2) Ethane	0.85	4072967	484.233 ppm
3) Ethene	1.07	4277595	485.115 ppm
4) 1-Butene	0.00	0	N.D. ppm

Quantitation Report

Data File : e:\1\DATA\L220216\0216009.D
Acq On : 16 Feb 2022 13:34
Sample : CCV0216DG-L2
Misc :

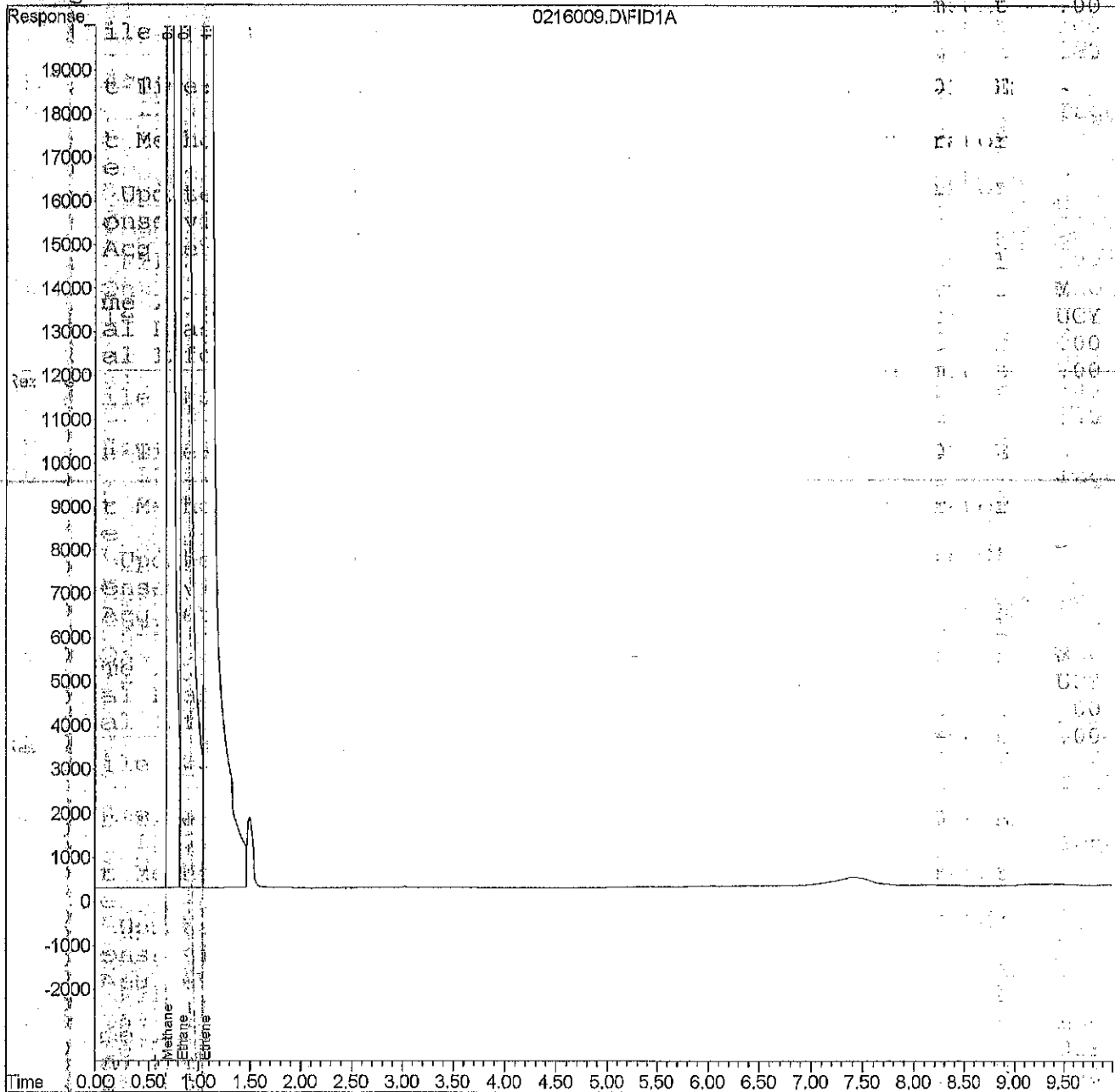
Vial: 9
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Feb 16 13:36 2022 Quant Results File: L211202.RES

Quant Method : E:\1\METHODS\L211202.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Dec 02 14:49:12 2021
Response via : Multiple Level Calibration
DataAcq Meth : L211202.M

Volume Inj :
Signal Phase :
Signal Info :



Alkalinity
SM 2320B Data

Alkalinity
Method SM2320 B

Date Analyzed: 2/14/22
 Analyst: OV
 Titrant Lot #: 2170561100

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 0214W1	0.02N	50	X	X	0.05	
SB 0214W1		25			265 - 0.05 = 2.60	Spike ID =
02-007-01e					9.15 - 2.65 = 6.5	
↓ -01e DUF					6.4	REFILL
02-092-01e					10 - 6.4 = 3.6 + 4.05 = 7.65	
↓ -02e					7.2 - 4.05 = 3.15	
02-068-01e					9.7 - 7.2 = 2.5	
↓ -02e					5.5	REFILL
↓ -03e					10 - 5.5 = 4.5 + 2.45 = 6.95	
↓ -04e					9.45 - 2.45 = 7.0	REFILL 2/14
↓ -05e					4.7	REFILL
↓ -06e					10 - 4.7 = 5.3 + 5.6 = 10.9	
02-136-01					6.4 - 5.6 = 0.80	
02-137-01					6.85 - 6.4 = 0.45	
↓ -02					7.45 - 6.85 = 0.60	
↓ -03		✓			7.8 - 7.45 = 0.35	
↓ -01		100			9.6 - 7.8 = 1.8	
↓ -03		100	↓	↓	1.45	REFILL
02-141-01c		25	7.48	X	7.3	REFILL
↓ -02c	✓	↓	7.59	X	7.15	REFILL



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 1, 2022

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-024-11
Laboratory Reference No. 2205-223

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", enclosed within a large, loopy circular flourish.

Blair Goodrow
Project Manager

Enclosures



Date of Report: June 1, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-223
Project: 5147-024-11

Case Narrative

Samples were collected on May 17, 18 and 19, 2022 and received by the laboratory on May 19, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Gases RSK 175 Analysis

Samples MW-15_051722 and MW-8_051822 had surrogate recoveries slightly below the in-lab advisory control limits. Both samples re-run with similar results, and therefore this was attributed to matrix effects.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: June 1, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-223
Project: 5147-024-11

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2A_051722	05-223-01	Water	5-17-22	5-19-22	
MW-3_051722	05-223-02	Water	5-17-22	5-19-22	
MW-4_051722	05-223-03	Water	5-17-22	5-19-22	
MW-15_051722	05-223-04	Water	5-17-22	5-19-22	
MW-8_051822	05-223-05	Water	5-18-22	5-19-22	
MW-13_051822	05-223-06	Water	5-18-22	5-19-22	
MW-14_051822	05-223-07	Water	5-18-22	5-19-22	
MW-1A_051922	05-223-08	Water	5-19-22	5-19-22	
DUP-1_051922	05-223-09	Water	5-19-22	5-19-22	



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				
Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				
Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	65-122				
Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Gasoline	ND	240	NWTPH-Gx	5-23-22	5-23-22	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	65-122				
Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Gasoline	320	100	NWTPH-Gx	5-23-22	5-23-22	O
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	65-122				
Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Gasoline	ND	100	NWTPH-Gx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				
Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	65-122				
Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	65-122				



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Diesel Range Organics	0.42	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	0.23	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Diesel Range Organics	0.26	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Diesel Range Organics	1.4	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	0.53	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Diesel Range Organics	0.70	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	0.38	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	0.30	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-27-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-27-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Diesel Range Organics	0.32	0.20	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	0.27	0.20	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-27-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-27-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Diesel Range Organics	0.30	0.20	NWTPH-Dx	5-26-22	5-27-22	
Lube Oil Range Organics	0.26	0.20	NWTPH-Dx	5-26-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				

Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-27-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-26-22	5-27-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-127</i>
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>

Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-127</i>
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	104	75-127
Toluene-d8	98	80-127
4-Bromofluorobenzene	98	78-125

Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	107	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	101	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	8.4	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	19	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	0.61	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	0.78	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	104	75-127
Toluene-d8	101	80-127
4-Bromofluorobenzene	100	78-125

Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	3.3	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	104	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	97	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	107	75-127
<i>Toluene-d8</i>	99	80-127
<i>4-Bromofluorobenzene</i>	99	78-125

Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	105	75-127
<i>Toluene-d8</i>	97	80-127
<i>4-Bromofluorobenzene</i>	98	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Arsenic	5.3	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Arsenic	4.4	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Arsenic	6.8	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Arsenic	5.0	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Arsenic	4.5	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	130	10	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	

Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	26	10	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	

Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	1400	130	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	

Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Arsenic	4.3	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	5300	500	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Arsenic	5.3	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	2300	130	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	

Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	88	10	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	

Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Arsenic	3.7	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	11	10	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	

Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	78	10	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	73	10	EPA 200.8		5-24-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Total Alkalinity	320	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Total Alkalinity	150	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Total Alkalinity	240	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Total Alkalinity	390	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Total Alkalinity	240	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Total Alkalinity	210	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Total Alkalinity	110	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Total Alkalinity	270	4.0	SM 2320B	5-25-22	5-25-22	

Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Total Alkalinity	280	4.0	SM 2320B	5-25-22	5-25-22	



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**DISSOLVED METHANE
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_051722					
Laboratory ID:	05-223-01					
Methane	180	1.7	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	75	70-130				
Client ID:	MW-3_051722					
Laboratory ID:	05-223-02					
Methane	94	0.55	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	80	70-130				
Client ID:	MW-4_051722					
Laboratory ID:	05-223-03					
Methane	2300	17	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	67	70-130				
						Q
Client ID:	MW-15_051722					
Laboratory ID:	05-223-04					
Methane	7900	55	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	69	70-130				
						Q
Client ID:	MW-8_051822					
Laboratory ID:	05-223-05					
Methane	1400	11	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	75	70-130				
Client ID:	MW-13_051822					
Laboratory ID:	05-223-06					
Methane	530	5.5	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	77	70-130				



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**DISSOLVED METHANE
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_051822					
Laboratory ID:	05-223-07					
Methane	300	3.3	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	81	70-130				
Client ID:	MW-1A_051922					
Laboratory ID:	05-223-08					
Methane	510	5.5	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	76	70-130				
Client ID:	DUP-1_051922					
Laboratory ID:	05-223-09					
Methane	540	5.5	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	75	70-130				



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W2					
Gasoline	ND	100	NWTPH-Gx	5-23-22	5-23-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	91	65-122				
Laboratory ID:	MB0526W1					
Gasoline	ND	100	NWTPH-Gx	5-26-22	5-26-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	91	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-223-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				91	90	65-122		
Laboratory ID:	05-223-06							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				91	91	65-122		



Date of Report: June 1, 2022
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Laboratory Reference: 2205-223
Project: 5147-024-11

**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCVH0523G-1	2.50	2.57	-3	+/- 20%
CCVH0523G-2	2.50	2.40	4	+/- 20%
CCVH0526G-1	2.50	2.64	-6	+/- 20%
CCVH0526G-2	2.50	2.64	-6	+/- 20%



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0526W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-26-22	5-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Laboratory ID:	MB0526W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-26-22	5-26-22	X1
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-26-22	5-26-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0526W1							
	ORIG	DUP						
Diesel Fuel #2	0.398	0.430	NA	NA	NA	NA	8	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				80	84	50-150		
Laboratory ID:	SB0526W1							
	ORIG	DUP						
Diesel Fuel #2	0.420	0.431	NA	NA	NA	NA	3	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				86	86	50-150		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0526F-V1	100	86.2	13.8	+/-15%
CCV0526F-V2	100	89.1	10.9	+/-15%
CCV0526F-V3	100	88.9	11.1	+/-15%
CCV0526F-V4	100	102	-2.2	+/-15%
CCV0526R-V1	100	90.3	9.7	+/-15%
CCV0526R-V2	100	99.3	0.7	+/-15%
CCV0526R-V3	100	98.1	1.9	+/-15%



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W2					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-23-22	5-23-22	
n-Hexane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	108	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0523W2									
1,1-Dichloroethene	9.17	10.3	10.0	10.0	92	103	78-125	12	19	
Benzene	9.05	10.0	10.0	10.0	91	100	80-121	10	16	
Trichloroethene	8.88	9.84	10.0	10.0	89	98	80-122	10	18	
Toluene	8.61	9.47	10.0	10.0	86	95	80-120	10	18	
Chlorobenzene	8.63	9.30	10.0	10.0	86	93	80-120	7	17	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	102	75-127			
<i>Toluene-d8</i>					98	99	80-127			
<i>4-Bromofluorobenzene</i>					100	100	78-125			



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
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 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524WM1					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	

Laboratory ID:	MB0523W1					
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-223-01							
	ORIG	DUP						
Arsenic	5.29	5.07	NA	NA	NA	NA	4	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	05-223-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	05-223-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	117	119	111	111	5.29	101	103	75-125	2	20
Cadmium	108	107	111	111	ND	97	96	75-125	1	20
Chromium	107	106	111	111	ND	96	96	75-125	1	20
Lead	101	99.6	111	111	ND	91	90	75-125	2	20

Laboratory ID:	05-223-01									
Mercury	5.65	5.63	6.25	6.25	ND	90	90	75-125	0	20



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV052422X	50.0	54.1	-8.2	+/- 10%
Cadmium	ICV052422X	50.0	52.6	-5.2	+/- 10%
Chromium	ICV052422X	50.0	52.3	-4.6	+/- 10%
Lead	ICV052422X	50.0	52.2	-4.4	+/- 10%
Mercury	ICV052322I	2.50	2.43	2.8	+/- 10%
Arsenic	CCV1052422X	40.0	43.6	-9.0	+/- 10%
Cadmium	CCV1052422X	40.0	42.4	-6.0	+/- 10%
Chromium	CCV1052422X	40.0	42.3	-5.7	+/- 10%
Lead	CCV1052422X	40.0	42.5	-6.3	+/- 10%
Mercury	CCV1052322I	2.50	2.37	5.2	+/- 20%
Arsenic	CCV1052422X	20.0	21.2	-6.0	+/- 10%
Cadmium	CCV1052422X	20.0	21.2	-6.0	+/- 10%
Chromium	CCV1052422X	20.0	20.3	-1.5	+/- 10%
Lead	CCV1052422X	20.0	20.8	-4.0	+/- 10%
Arsenic	CCV2052422X	40.0	41.5	-3.8	+/- 10%
Cadmium	CCV2052422X	40.0	40.7	-1.8	+/- 10%
Chromium	CCV2052422X	40.0	39.5	1.3	+/- 10%
Lead	CCV2052422X	40.0	40.9	-2.3	+/- 10%
Mercury	CCV2052422X	2.50	2.36	5.6	+/- 20%
Arsenic	CCV2052422X	20.0	21.5	-7.5	+/- 10%
Cadmium	CCV2052422X	20.0	20.8	-4.0	+/- 10%
Chromium	CCV2052422X	20.0	20.1	-0.50	+/- 10%
Lead	CCV2052422X	20.0	20.8	-4.0	+/- 10%
Arsenic	CCV3052422X	40.0	42.1	-5.3	+/- 10%
Cadmium	CCV3052422X	40.0	39.5	1.3	+/- 10%
Chromium	CCV3052422X	40.0	39.3	1.8	+/- 10%
Lead	CCV3052422X	40.0	41.1	-2.8	+/- 10%
Mercury	CCV3052322I	2.50	2.34	6.4	+/- 20%
Arsenic	CCV3052422X	20.0	21.4	-7.0	+/- 10%
Cadmium	CCV3052422X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV3052422X	20.0	19.9	0.50	+/- 10%
Lead	CCV3052422X	20.0	20.7	-3.5	+/- 10%
Mercury	CCV4052322I	2.50	2.41	3.6	+/- 20%
Mercury	CCV5052322I	2.50	2.40	4.0	+/- 20%



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524D1					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Manganese	ND	10	EPA 200.8		5-24-22	

Laboratory ID:	MB0523D1					
Mercury	ND	0.025	EPA 7470A		5-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-223-02							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Manganese	25.6	25.4	NA	NA	NA	NA	1	20

Laboratory ID:	05-223-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	05-223-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	90.6	88.4	80.0	80.0	ND	113	111	75-125	2	20
Cadmium	79.2	79.2	80.0	80.0	ND	99	99	75-125	0	20
Chromium	73.2	71.8	80.0	80.0	ND	92	90	75-125	2	20
Lead	76.4	75.0	80.0	80.0	ND	96	94	75-125	2	20
Manganese	96.2	96.8	80.0	80.0	25.6	88	89	75-125	1	20

Laboratory ID:	05-223-01									
Mercury	5.80	5.88	6.25	6.25	ND	93	94	75-125	1	20



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
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**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV052422X	50.0	53.1	-6.2	+/- 10%
Cadmium	ICV052422X	50.0	52.6	-5.2	+/- 10%
Chromium	ICV052422X	50.0	51.2	-2.4	+/- 10%
Lead	ICV052422X	50.0	52.1	-4.2	+/- 10%
Manganese	ICV052422X	50.0	52.2	-4.4	+/- 10%
Mercury	ICV052322I	2.50	2.53	-1.2	+/- 10%
Arsenic	CCV1052422X	40.0	41.7	-4.3	+/- 10%
Cadmium	CCV1052422X	40.0	40.7	-1.8	+/- 10%
Chromium	CCV1052422X	40.0	39.6	1.0	+/- 10%
Lead	CCV1052422X	40.0	41.0	-2.5	+/- 10%
Manganese	CCV1052422X	40.0	40.4	-1.0	+/- 10%
Mercury	CCV1052322I	2.50	2.37	5.2	+/- 20%
Arsenic	CCV1052422X	20.0	20.4	-2.0	+/- 10%
Cadmium	CCV1052422X	20.0	19.6	2.0	+/- 10%
Chromium	CCV1052422X	20.0	19.9	0.50	+/- 10%
Lead	CCV1052422X	20.0	20.0	0	+/- 10%
Manganese	CCV1052422X	20.0	20.1	-0.50	+/- 10%
Arsenic	CCV2052422X	40.0	42.2	-5.5	+/- 10%
Cadmium	CCV2052422X	40.0	39.9	0.25	+/- 10%
Chromium	CCV2052422X	40.0	37.3	6.8	+/- 10%
Lead	CCV2052422X	40.0	40.7	-1.8	+/- 10%
Manganese	CCV2052422X	40.0	40.8	-2.0	+/- 10%
Mercury	CCV2052322I	2.50	2.36	5.6	+/- 20%
Arsenic	CCV2052422X	20.0	20.7	-3.5	+/- 10%
Cadmium	CCV2052422X	20.0	19.6	2.0	+/- 10%
Chromium	CCV2052422X	20.0	18.8	6.0	+/- 10%
Lead	CCV2052422X	20.0	20.1	-0.50	+/- 10%
Manganese	CCV2052422X	20.0	20.0	0	+/- 10%



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 Laboratory Reference: 2205-223
 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	CCV3052422X	40.0	42.8	-7.0	+/- 10%
Cadmium	CCV3052422X	40.0	40.9	-2.3	+/- 10%
Chromium	CCV3052422X	40.0	37.2	7.0	+/- 10%
Lead	CCV3052422X	40.0	41.8	-4.5	+/- 10%
Manganese	CCV3052422X	40.0	42.6	-6.5	+/- 10%
Mercury	CCV3052322I	2.50	2.34	6.4	+/- 20%
Arsenic	CCV3052422X	20.0	21.5	-7.5	+/- 10%
Cadmium	CCV3052422X	20.0	19.4	3.0	+/- 10%
Chromium	CCV3052422X	20.0	18.0	10	+/- 10%
Lead	CCV3052422X	20.0	20.4	-2.0	+/- 10%
Manganese	CCV3052422X	20.0	20.5	-2.5	+/- 10%



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
Total Alkalinity	ND	4.0	SM 2320B	5-25-22	5-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-223-01							
	ORIG	DUP						
Total Alkalinity	318	322	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0525W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 1, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-223
 Project: 5147-024-11

**DISSOLVED METHANE
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0527W1					
Methane	ND	0.55	RSK 175	5-27-22	5-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	111	70-130				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0527W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	38.8	40.6	44.2	44.2	88	92	75-125	5	25	
<i>Surrogate:</i>										
1-Butene					78	81	70-130			



Date of Report: June 1, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-223
Project: 5147-024-11

**DISSOLVED METHANE
RSK 175
CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Methane	CCV0527DG-L1	500	476	4.7	+/- 15%
Methane	CCV0527DG-L2	500	480	4.0	+/- 15%
Methane	CCV0527DG-L3	500	472	5.5	+/- 15%





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Quiet Cove Site
Work Order Number: 2205363

May 24, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 3 sample(s) on 5/18/2022 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site
Work Order: 2205363

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205363-001	MW-8_051822	05/18/2022 12:05 PM	05/18/2022 4:40 PM
2205363-002	MW-13_051822	05/18/2022 1:05 PM	05/18/2022 4:40 PM
2205363-003	MW-14_051822	05/18/2022 10:00 AM	05/18/2022 4:40 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: Quiet Cove Site

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: Quiet Cove Site
Lab ID: 2205363-001
Client Sample ID: MW-8_051822

Collection Date: 5/18/2022 12:05:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 36503		Analyst: ALT
Nitrate (as N)	ND	0.500	D	mg/L	5	5/20/2022 11:14:41 AM
Sulfate	3.34	3.00	D	mg/L	5	5/20/2022 11:14:41 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R75520		Analyst: SLL
Ferrous Iron	24.5	2.50	D	mg/L	25	5/19/2022 9:05:25 AM



Client: OnSite Environmental Inc
Project: Quiet Cove Site
Lab ID: 2205363-002
Client Sample ID: MW-13_051822

Collection Date: 5/18/2022 1:05:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 36503		Analyst: ALT
Nitrate (as N)	ND	0.500	D	mg/L	5	5/20/2022 11:14:41 AM
Sulfate	25.5	6.00	D	mg/L	10	5/20/2022 2:31:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R75520		Analyst: SLL
Ferrous Iron	3.43	0.500	D	mg/L	5	5/19/2022 9:05:25 AM



Client: OnSite Environmental Inc
Project: Quiet Cove Site
Lab ID: 2205363-003
Client Sample ID: MW-14_051822

Collection Date: 5/18/2022 10:00:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 36503		Analyst: ALT
Nitrate (as N)	1.21	1.00	D	mg/L	10	5/20/2022 2:54:00 AM
Sulfate	28.1	6.00	D	mg/L	10	5/20/2022 2:54:00 AM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R75520		Analyst: SLL
Ferrous Iron	0.768	0.100		mg/L	1	5/19/2022 9:05:25 AM

Work Order: 2205363
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R75520	SampType: MBLK	Units: mg/L	Prep Date: 5/19/2022	RunNo: 75520							
Client ID: MBLKW	Batch ID: R75520		Analysis Date: 5/19/2022	SeqNo: 1549732							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R75520	SampType: LCS	Units: mg/L	Prep Date: 5/19/2022	RunNo: 75520							
Client ID: LCSW	Batch ID: R75520		Analysis Date: 5/19/2022	SeqNo: 1549733							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.447 0.100 0.4000 0 112 85 115

Sample ID: 2205363-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 5/19/2022	RunNo: 75520							
Client ID: MW-8_051822	Batch ID: R75520		Analysis Date: 5/19/2022	SeqNo: 1549735							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 25.7 2.50 24.46 4.90 20 D

Sample ID: 2205363-001AMS	SampType: MS	Units: mg/L	Prep Date: 5/19/2022	RunNo: 75520							
Client ID: MW-8_051822	Batch ID: R75520		Analysis Date: 5/19/2022	SeqNo: 1549736							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 36.2 2.50 10.00 24.46 117 70 130 D

Sample ID: 2205363-001AMSD	SampType: MSD	Units: mg/L	Prep Date: 5/19/2022	RunNo: 75520							
Client ID: MW-8_051822	Batch ID: R75520		Analysis Date: 5/19/2022	SeqNo: 1549737							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 36.8 2.50 10.00 24.46 123 70 130 36.18 1.57 20 D

Work Order: 2205363
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: LCS-36503	SampType: LCS	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: LCSW	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550545					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.721	0.100	0.7500	0	96.1	90	110				
Sulfate	3.41	0.600	3.750	0	91.0	90	110				

Sample ID: MB-36503	SampType: MBLK	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: MBLKW	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550547					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2205337-002BDUP	SampType: DUP	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: BATCH	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550552					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.570	0.500						0.5700	0	20	DH
Sulfate	37.6	3.00						38.15	1.44	20	D

Sample ID: 2205337-002BMS	SampType: MS	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: BATCH	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550553					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	3.87	0.500	3.750	0.5700	88.0	80	120				DH
Sulfate	57.1	3.00	18.75	38.15	101	80	120				D

Work Order: 2205363
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2205350-003ADUP	SampType: DUP	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: BATCH	Batch ID: 36503				Analysis Date: 5/20/2022	SeqNo: 1550561					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.100	0.100						0.1000	0	20	H
Sulfate	12.2	0.600						12.22	0.0491	20	

Sample ID: 2205350-003AMS	SampType: MS	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: BATCH	Batch ID: 36503				Analysis Date: 5/20/2022	SeqNo: 1550562					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.770	0.100	0.7500	0.1000	89.3	80	120				H
Sulfate	16.3	0.600	3.750	12.22	110	80	120				E

Sample ID: 2205350-003AMSD	SampType: MSD	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: BATCH	Batch ID: 36503				Analysis Date: 5/20/2022	SeqNo: 1550563					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate (as N)	0.770	0.100	0.7500	0.1000	89.3	80	120	0.7700	0	20	H
Sulfate	16.4	0.600	3.750	12.22	111	80	120	16.33	0.214	20	E

Client Name: ONSITE	Work Order Number: 2205363
Logged by: Clare Griggs	Date Received: 5/18/2022 4:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

~~2205371~~ 5/18/22 cg

Fremont <small>ANALYTICAL</small>		3600 Fremont Ave N. Seattle, WA 98103 Tel: 206-352-3790 Fax: 206-352-7178		Chain of Custody Record & Laboratory Services Agreement																											
Date: 5/18/2022		Page: 1 of 1		Laboratory Project No (Internal): 2205363								Special Remarks:																			
Project Name: Quiet Cove Site				Project No: 5147-024-11								Collected by: Nathan Solomon																			
Client: OnSite Environmental				City, State, Zip: Redmond, WA 98052								Location: Anacortes, WA																			
Address: 14648 NE 95th St				Telephone: 425.883.3881								Report To (PM): David Baumeister																			
Fax:				PM Email: dbaumeister@onsite-env.com								Sample Disposal: <input type="checkbox"/> Return to client <input type="checkbox"/> Dispose by lab (after 30 days)																			
<div style="text-align: center; border: 1px solid black; padding: 5px;"> <p>Ferrus Iron by EPA 3000 Sulfate and Nitrate by EPA 3000</p> </div>																															
Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Sr	Sn	Ti	V	Zn	Comments
MW-8_051822	5.18.22	1205	Water	XX																											
MW-13_051822	5.18.22	1305	Water	XX																											
MW-14_051822	5.18.22	1000	Water	XX																											
*Matrix: A = Air, AQ = Aqueous, B = Bulk, D = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water										Turn-around Time:																					
**Metals (Circle): BILCA-S ILCA-Z Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn										<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Next Day																					
***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite										<input type="checkbox"/> 3 Day <input type="checkbox"/> Same Day																					
<input type="checkbox"/> 7 Day (with)										<input type="checkbox"/> 7 Day (with)																					
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.												Received (Signature) <i>Melanie Esparza</i> Print Name Melanie Esparza Date/Time 5/18/22 16:40																			
Brian Tracy				5/18/22				16:39				Received (Signature) <i>Brian Tracy</i> Print Name Brian Tracy Date/Time 5/18/22 16:40																			

www.fremontanalytical.com



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Quiet Cove Site
Work Order Number: 2205337

May 24, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 4 sample(s) on 5/17/2022 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site
Work Order: 2205337

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205337-001	MW-2A_051722	05/17/2022 12:35 PM	05/17/2022 4:00 PM
2205337-002	MW-3_051722	05/17/2022 11:25 AM	05/17/2022 4:00 PM
2205337-003	MW-4_051722	05/17/2022 9:30 AM	05/17/2022 4:00 PM
2205337-004	MW-15_051722	05/17/2022 10:20 AM	05/17/2022 4:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

Lab ID: 2205337-001

Collection Date: 5/17/2022 12:35:00 PM

Client Sample ID: MW-2A_051722

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 36484		Analyst: SLL
Nitrate (as N)	1.12	1.00	D	mg/L	10	5/17/2022 8:47:00 PM
Sulfate	43.6	3.00	D	mg/L	5	5/19/2022 8:43:00 PM
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R75474		Analyst: SLL
Ferrous Iron	1.96	0.500	D	mg/L	5	5/18/2022 8:06:11 AM

Lab ID: 2205337-002

Collection Date: 5/17/2022 11:25:00 AM

Client Sample ID: MW-3_051722

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Ion Chromatography by EPA Method 300.0</u>				Batch ID: 36503		Analyst: ALT
Nitrate (as N)	0.630	0.500	DQ*	mg/L	5	5/19/2022 12:28:00 AM
Nitrate (as N)	0.570	0.500	DH	mg/L	5	5/19/2022 9:06:00 PM
Sulfate	38.1	3.00	D	mg/L	5	5/19/2022 9:06:00 PM
NOTES:						
Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria						
* - Associated LCS does not meet acceptance criteria; refer to QC summary.						
<u>Ferrous Iron by SM3500-Fe B</u>				Batch ID: R75474		Analyst: SLL
Ferrous Iron	0.978	0.100		mg/L	1	5/18/2022 8:06:11 AM



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

Lab ID: 2205337-003

Collection Date: 5/17/2022 9:30:00 AM

Client Sample ID: MW-4_051722

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 36503

Analyst: ALT

Nitrate (as N)	ND	1.00	DQ*	mg/L	10	5/19/2022 12:51:00 AM
Nitrate (as N)	ND	0.500	DH	mg/L	5	5/19/2022 10:15:00 PM
Sulfate	5.33	3.00	D	mg/L	5	5/19/2022 10:15:00 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria

* - Associated LCS does not meet acceptance criteria; refer to QC summary.

Ferrous Iron by SM3500-Fe B

Batch ID: R75474

Analyst: SLL

Ferrous Iron	10.9	2.50	D	mg/L	25	5/18/2022 8:06:11 AM
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Lab ID: 2205337-004

Collection Date: 5/17/2022 10:20:00 AM

Client Sample ID: MW-15_051722

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 36503

Analyst: ALT

Nitrate (as N)	ND	0.500	DQ*	mg/L	5	5/19/2022 1:14:00 AM
Nitrate (as N)	ND	1.00	DH	mg/L	10	5/19/2022 10:39:00 PM
Sulfate	5.53	6.00	DJ	mg/L	10	5/19/2022 10:39:00 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria

* - Associated LCS does not meet acceptance criteria; refer to QC summary.

Ferrous Iron by SM3500-Fe B

Batch ID: R75474

Analyst: SLL

Ferrous Iron	52.2	12.5	D	mg/L	125	5/18/2022 8:06:11 AM
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Work Order: 2205337
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R75474	SampType: MBLK	Units: mg/L	Prep Date: 5/18/2022	RunNo: 75474							
Client ID: MBLKW	Batch ID: R75474	Analysis Date: 5/18/2022	SeqNo: 1548798								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron ND 0.100

Sample ID: LCS-R75474	SampType: LCS	Units: mg/L	Prep Date: 5/18/2022	RunNo: 75474							
Client ID: LCSW	Batch ID: R75474	Analysis Date: 5/18/2022	SeqNo: 1548799								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.424 0.100 0.4000 0 106 85 115

Sample ID: 2205337-002ADUP	SampType: DUP	Units: mg/L	Prep Date: 5/18/2022	RunNo: 75474							
Client ID: MW-3_051722	Batch ID: R75474	Analysis Date: 5/18/2022	SeqNo: 1548802								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 0.955 0.100 0.9783 2.37 20

Sample ID: 2205337-002AMS	SampType: MS	Units: mg/L	Prep Date: 5/18/2022	RunNo: 75474							
Client ID: MW-3_051722	Batch ID: R75474	Analysis Date: 5/18/2022	SeqNo: 1548803								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 1.49 0.100 0.4000 0.9783 127 70 130

Sample ID: 2205337-002AMSD	SampType: MSD	Units: mg/L	Prep Date: 5/18/2022	RunNo: 75474							
Client ID: MW-3_051722	Batch ID: R75474	Analysis Date: 5/18/2022	SeqNo: 1548804								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ferrous Iron 1.47 0.100 0.4000 0.9783 123 70 130 1.487 1.11 20

Work Order: 2205337
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: LCS-36503A	SampType: LCS	Units: mg/L				Prep Date: 5/18/2022	RunNo: 75578				
Client ID: LCSW	Batch ID: 36503					Analysis Date: 5/18/2022	SeqNo: 1550697				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100	0.7500	0	0	90	110				S
Sulfate	ND	0.600	3.750	0	0	90	110				S

Sample ID: MB-36503A	SampType: MBLK	Units: mg/L				Prep Date: 5/18/2022	RunNo: 75578				
Client ID: MBLKW	Batch ID: 36503					Analysis Date: 5/18/2022	SeqNo: 1550699				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2205337-004BDUP	SampType: DUP	Units: mg/L				Prep Date: 5/19/2022	RunNo: 75578				
Client ID: MW-15_051722	Batch ID: 36503					Analysis Date: 5/19/2022	SeqNo: 1550706				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.500						0.9500	200	20	DRQ*
Sulfate	4.16	3.00						38.63	161	20	DR

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria
 * - Associated LCS does not meet acceptance criteria; refer to QC summary.

Sample ID: 2205337-004BMS	SampType: MS	Units: mg/L				Prep Date: 5/19/2022	RunNo: 75578				
Client ID: MW-15_051722	Batch ID: 36503					Analysis Date: 5/19/2022	SeqNo: 1550707				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.44	0.500	3.750	0.9500	66.4	80	120				DS
Sulfate	20.3	3.00	18.75	38.63	-97.5	80	120				DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2205337
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2205337-004BMSD	SampType: MSD	Units: mg/L			Prep Date: 5/19/2022	RunNo: 75578					
Client ID: MW-15_051722	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550708					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.46	0.500	3.750	0.9500	66.8	80	120	3.440	0.435	20	DS
Sulfate	20.5	3.00	18.75	38.63	-96.5	80	120	20.34	0.930	20	DS

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: LCS-36503	SampType: LCS	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: LCSW	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550545					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.721	0.100	0.7500	0	96.1	90	110				
Sulfate	3.41	0.600	3.750	0	91.0	90	110				

Sample ID: MB-36503	SampType: MBLK	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: MBLKW	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550547					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2205337-002BDUP	SampType: DUP	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: MW-3_051722	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550552					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.570	0.500						0.5700	0	20	DH
Sulfate	37.6	3.00						38.15	1.44	20	D

Sample ID: 2205337-002BMS	SampType: MS	Units: mg/L			Prep Date: 5/18/2022	RunNo: 75572					
Client ID: MW-3_051722	Batch ID: 36503				Analysis Date: 5/19/2022	SeqNo: 1550553					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	3.87	0.500	3.750	0.5700	88.0	80	120				DH

Work Order: 2205337
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2205337-002BMS	SampType: MS	Units: mg/L				Prep Date: 5/18/2022	RunNo: 75572				
Client ID: MW-3_051722	Batch ID: 36503					Analysis Date: 5/19/2022	SeqNo: 1550553				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	57.1	3.00	18.75	38.15	101	80	120				D

Sample ID: 2205350-003ADUP	SampType: DUP	Units: mg/L				Prep Date: 5/18/2022	RunNo: 75572				
Client ID: BATCH	Batch ID: 36503					Analysis Date: 5/20/2022	SeqNo: 1550561				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.100	0.100						0.1000	0	20	H
Sulfate	12.2	0.600						12.22	0.0491	20	

Sample ID: 2205350-003AMS	SampType: MS	Units: mg/L				Prep Date: 5/18/2022	RunNo: 75572				
Client ID: BATCH	Batch ID: 36503					Analysis Date: 5/20/2022	SeqNo: 1550562				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.770	0.100	0.7500	0.1000	89.3	80	120				H
Sulfate	16.3	0.600	3.750	12.22	110	80	120				E

Sample ID: 2205350-003AMSD	SampType: MSD	Units: mg/L				Prep Date: 5/18/2022	RunNo: 75572				
Client ID: BATCH	Batch ID: 36503					Analysis Date: 5/20/2022	SeqNo: 1550563				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.770	0.100	0.7500	0.1000	89.3	80	120	0.7700	0	20	H
Sulfate	16.4	0.600	3.750	12.22	111	80	120	16.33	0.214	20	E

Client Name: ONSITE	Work Order Number: 2205337
Logged by: Clare Griggs	Date Received: 5/17/2022 4:00:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
 Seattle, WA 98103
 Tel: 206-352-3790
 Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: _____ Page: _____ of: _____

Project Name: _____

Project No: _____

Collected by: _____

Location: _____

Report To (PM): _____

PM Email: _____

Laboratory Project No (internal): **2205337**

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: _____

Address: _____

City, State, Zip: _____

Telephone: _____

Fax: _____

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Ferrous Iron by SM3500 Sulfate and Nitrate by EPA 300.0										Comments		
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:

Standard Next Day

3 Day Same Day

2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

SAMPLE RECEIVING. Laboratory hours are from 8:00am to 6:00pm – Monday through Friday. Turn-around times for samples received after 4:00pm begin on the following business day.

TURN-AROUND TIMES. Standard turn-around is 5 business days from the date of sample receipt for most analyses. For many analyses we offer expedited turn-around times, including:

• 3 Day (50% surcharge) • 2 Day (75% surcharge) • Next Day (100% surcharge) • Same Day – Call for availability and pricing

Expedited turn-around and/or specific data delivery requirements should be coordinated in advance. Samples received near the end of their holding time may incur an expedited analysis surcharge whether or not expedited report delivery is requested.

SAMPLE DISPOSAL. Fremont Analytical, Inc. (FAI) archives samples for 30 days after issuing the analytical report or after receiving Client instructions to suspend or terminate the project. After 30 days, FAI disposes of all sample volume in accordance with all governing regulations and laboratory best practices. Clients wishing to reclaim sample volume must request storage beyond the standard 30 days or arrange to retrieve the volume before the scheduled disposal. A \$5.00 fee per sample accrues monthly for storage requested beyond 30 days. FAI reserves the right to charge a disposal fee (not to exceed \$25.00/sample) for samples requiring special packaging and labeling as Hazardous Materials. "Hazardous Materials" include, but are not limited to, substances of any kind that are potentially poisonous, toxic, radioactive, explosive, or flammable, that contain biohazards or high levels of trace metals, or that pose any risk to persons or the environment through handling or disposal.

PAYMENT. All invoices are sent directly to the client contact provided. For clients with approved credit, payment terms are net 30 days from the date of the invoice. All overdue balances are subject to a 1.5% interest and service charge per month from the due date of the invoice. Third party billing will not be approved without a signed statement from the named party that acknowledges and accepts payment responsibility. In the event that payment is not received within 60 days of the invoice date, FAI may, at its option, terminate all duties without liability to the Client or others. All data produced by FAI is the property of FAI until all associated costs are paid. Clients suspending or terminating a project may be charged for services already performed whether or not analytical data is available or provided.

CONFIDENTIALITY. FAI maintains the confidentiality of all Client data. No information regarding clients' names, sites, projects, or data will be released without direct, written authorization from the Project Manager designated on this COC Record or other authorized representative of the client company. All data and reports provided to the Client by FAI are specifically for the use of the Client. Reports are intended to be considered in their entirety. FAI is not responsible for the use or misuse of any portion of data or a report by the Client or third parties.

COMPLETE AGREEMENT, MODIFICATION, WAIVER, ENFORCEABILITY. This Agreement, including the parts incorporated herein by reference, is the complete agreement of the parties with regard to services of FAI. No modification or amendment to this Agreement shall be valid unless in writing and signed by an authorized representative of each party. This Agreement is binding on each party's heirs, successors, and assigns. If any provision of this Agreement is held invalid, illegal, or unenforceable, then the remaining provisions shall remain in effect and may be reformed and enforced by the court. Failure to require performance of any term of this Agreement shall not be deemed a waiver of the right to enforce any term of this Agreement.

JURISDICTION AND VENUE. This Agreement shall be interpreted according to the laws of the State of Washington. FAI and Client agree to submit to the jurisdiction and venue of state and federal courts in Seattle, Washington.

LIMITED WARRANTY. FAI warrants only that it will perform services using analytical methodologies with published test methods according to industry standards. If circumstances require analytic practices for which standards do not exist, FAI warrants only that its services will be in accordance with standard scientific procedures and good laboratory practices. FAI MAKES NO OTHER WARRANTIES AND DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES. FAI MAKES NO REPRESENTATIONS OR WARRANTIES REGARDING THE FITNESS OF THE DATA IN ITS REPORTS FOR ANY PARTICULAR USE OR PURPOSE.

LIMITATIONS ON FAI'S LIABILITY. FAI shall not be liable to Client for any of the following types of damages or losses arising out of this Agreement: incidental damages, indirect damages, consequential damages, lost profits, or tort damages. CLIENT'S SOLE REMEDY SHALL BE A REFUND OF THE APPLICABLE PAYMENT TO FAI. FAI SHALL HAVE NO LIABILITY OR OBLIGATIONS EXCEPT AS STATED HEREIN.

TIME LIMITATIONS ON ACTIONS AGAINST FAI. No legal action arising out of any service provided by FAI under this Agreement may be brought against FAI more than one year after FAI has performed the service that is the subject of the legal action, regardless of whether the parties have agreed to arbitration. For the purposes of this Agreement, each Chain of Custody Record and Laboratory Services Agreement form submitted constitutes a unique set of services.

NOTICES. Client(s) shall inspect completed data packages and notify FAI of any defects or nonconformity within thirty (30) days of receipt. Remittance of payment for services or failure to provide timely notification of defects shall be considered acceptance of such services, except as to latent defects which reasonable and timely examination would not have revealed.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Quiet Cove Site
Work Order Number: 2205393

May 26, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 5/19/2022 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site
Work Order: 2205393

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205393-001	MW-1A_051922	05/19/2022 1:00 PM	05/19/2022 3:41 PM
2205393-002	DUP-1_051922	05/19/2022 12:00 PM	05/19/2022 3:41 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

Lab ID: 2205393-001

Collection Date: 5/19/2022 1:00:00 PM

Client Sample ID: MW-1A_051922

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 36535

Analyst: ALT

Nitrate (as N)	ND	0.500	DH	mg/L	5	5/23/2022 5:16:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	5/20/2022 7:04:00 PM
Sulfate	9.55	6.00	D	mg/L	10	5/20/2022 7:04:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R75560

Analyst: SLL

Ferrous Iron	2.56	0.500	D	mg/L	5	5/20/2022 8:01:57 AM
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Lab ID: 2205393-002

Collection Date: 5/19/2022 12:00:00 PM

Client Sample ID: DUP-1_051922

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 36535

Analyst: ALT

Nitrate (as N)	ND	0.500	DH	mg/L	5	5/23/2022 5:39:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	5/20/2022 7:27:00 PM
Sulfate	9.27	6.00	D	mg/L	10	5/20/2022 7:27:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R75560

Analyst: SLL

Ferrous Iron	2.61	0.500	D	mg/L	5	5/20/2022 8:01:57 AM
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Work Order: 2205393
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R75560	SampType: MBLK	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75560					
Client ID: MBLKW	Batch ID: R75560				Analysis Date: 5/20/2022	SeqNo: 1550420					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: LCS-R75560	SampType: LCS	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75560					
Client ID: LCSW	Batch ID: R75560				Analysis Date: 5/20/2022	SeqNo: 1550421					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.401	0.100	0.4000	0	100	85	115				

Sample ID: 2205393-001ADUP	SampType: DUP	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75560					
Client ID: MW-1A_051922	Batch ID: R75560				Analysis Date: 5/20/2022	SeqNo: 1550423					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	2.63	0.500						2.563	2.53	20	D

Sample ID: 2205393-001AMS	SampType: MS	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75560					
Client ID: MW-1A_051922	Batch ID: R75560				Analysis Date: 5/20/2022	SeqNo: 1550424					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	4.96	0.500	2.000	2.563	120	70	130				D

Sample ID: 2205393-001AMSD	SampType: MSD	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75560					
Client ID: MW-1A_051922	Batch ID: R75560				Analysis Date: 5/20/2022	SeqNo: 1550425					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	4.66	0.500	2.000	2.563	105	70	130	4.957	6.14	20	D

Work Order: 2205393
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-36535A	SampType: MBLK	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75713					
Client ID: MBLKW	Batch ID: 36535				Analysis Date: 5/20/2022	SeqNo: 1553345					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: LCS-36535A	SampType: LCS	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75713					
Client ID: LCSW	Batch ID: 36535				Analysis Date: 5/20/2022	SeqNo: 1553346					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.718	0.100	0.7500	0	95.7	90	110				
Sulfate	3.40	0.600	3.750	0	90.7	90	110				

Sample ID: 2205393-002BDUP	SampType: DUP	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75713					
Client ID: DUP-1_051922	Batch ID: 36535				Analysis Date: 5/20/2022	SeqNo: 1553352					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	1.00						0		20	D
Sulfate	9.24	6.00						9.270	0.324	20	D

Sample ID: 2205393-002BMS	SampType: MS	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75713					
Client ID: DUP-1_051922	Batch ID: 36535				Analysis Date: 5/20/2022	SeqNo: 1553353					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	7.12	1.00	7.500	0	94.9	80	120				D
Sulfate	42.4	6.00	37.50	9.270	88.3	80	120				D

Sample ID: 2205393-002BMSD	SampType: MSD	Units: mg/L			Prep Date: 5/20/2022	RunNo: 75713					
Client ID: DUP-1_051922	Batch ID: 36535				Analysis Date: 5/20/2022	SeqNo: 1553354					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	6.62	1.00	7.500	0	88.3	80	120	7.120	7.28	20	D
Sulfate	39.9	6.00	37.50	9.270	81.7	80	120	42.38	5.98	20	D

Work Order: 2205393
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2205393-002BMSD	SampType: MSD	Units: mg/L	Prep Date: 5/20/2022	RunNo: 75713							
Client ID: DUP-1_051922	Batch ID: 36535		Analysis Date: 5/20/2022	SeqNo: 1553354							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2205401-004EDUP	SampType: DUP	Units: mg/L	Prep Date: 5/20/2022	RunNo: 75713							
Client ID: BATCH	Batch ID: 36535		Analysis Date: 5/20/2022	SeqNo: 1553361							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0		20	
Sulfate	5.18	0.600						5.190	0.0964	20	

Sample ID: 2205401-004EMS	SampType: MS	Units: mg/L	Prep Date: 5/20/2022	RunNo: 75713							
Client ID: BATCH	Batch ID: 36535		Analysis Date: 5/20/2022	SeqNo: 1553362							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.746	0.100	0.7500	0.09000	87.5	80	120				
Sulfate	9.08	0.600	3.750	5.190	104	80	120				

Client Name: ONSITE	Work Order Number: 2205393
Logged by: Clare Griggs	Date Received: 5/19/2022 3:41:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input style="width: 95%;" type="text"/>	Date:	<input style="width: 95%;" type="text"/>
By Whom:	<input style="width: 95%;" type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input style="width: 95%;" type="text"/>		
Client Instructions:	<input style="width: 95%;" type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	3.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/17/2022 Page: 1 of 1

Project Name: Quiet Cove Site

Project No: 5147-024-11

Collected by: Nathan Solomon

Location: Anacortes, WA

Report To (PM): David Baumeister

PM Email: dbaumeister@onsite-env.com

Laboratory Project No (Internal): 22-05393

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: OnSite Environmental
Address: 14648 NE 95th St
City, State, zip: Redmond, WA 98052
Telephone: 425.883.3881
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Comments
1 MW-1A_051922	5.19.22	1300	Water	X	
2 DUP-1_051922	5.19.22	1200	Water	X	
3					
4					
5					
6					
7					
8					
9					
10					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: _____

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: _____

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: _____

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: _____

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: _____

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: _____

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify) _____



OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)

_____ (other)

Laboratory Number:

05-223

Company: GeoEngineers Inc.
 Project Number: 05147-024-11
 Project Name: QUIET CONE - Post Interim Action
 Project Manager: Bryan Tracy
 Sampled by: NATHAN SACOMINI

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-2A-051722	05/17/22	12:35	WATER	12
2	MW-3-051722		11:25		12
3	MW-4-051722		09:30		12
4	MW-15-051722		10:20		12

Date	Company	Time
05/19/22	Geo	1451
5/19/22	Geo	1451

Date	Time	Comments/Special Instructions
05/19/22	1451	* = SAMPLES TAKEN TO FREMONT ANALYTICAL FF = FIELD FILTER USED
5/19/22	1451	*X - Report BTEX, EDB/PAH level, EDC, MTBE + n-Hexane

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (X Acid / SG Clean-up) With and Without	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	MEM (oil and grease) TOB4A	DISOLVED METHANE	TOTAL ALKALINITY	FERRUS IRON *	NITRATE & SULFATE *	TOTAL DIS. METALS MTCA	% Moisture
12			X	X	X														X	X	X	X	X
12			X	X	X														X	X	X	X	X
12			X	X	X														X	X	X	X	X
12			X	X	X														X	X	X	X	X

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



OnSite Environmental Inc.

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 Phone: (425) 883-3681 • www.onsite-env.com

Chain of Custody

Page 2 of 3

Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)

(other)

Laboratory Number:

05-223

MTCA 73

Company:

GED ENGINEERS INC

Project Number:

05147-024-11

Project Name:

QUIET Cove - BBT INTERIM ACTION

Project Manager:

BRYAN TRACY

Sampled by:

MATTIAH SOLOMON

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		Laboratory Number:																					
					NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260 <i>WITH AND WITHOUT ACU ISG</i>	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	METHANOL AND GREASE 1664 DISSOLVED METHANE	TOTAL ALKALINITY	FERRIC IRON*	NITRATE & SULFATE*	TOTAL METALS & DIS. METALS	% Moisture		
5	MW-8--051822	5.18.22	1205	WATER/IL			X	X	X												X	X	X	X	X	X		
6	MW-13-051822	5.18.22	1305				X	X	X												X	X	X	X	X	X		
7	MW-14-051822	5.18.22	1400				X	X	X												X	X	X	X	X	X		

Signature

Company

Date

Time

Comments/Special Instructions

* SAMPLE TAKEN TO FERROCUT ANALYTICAL
 FF = FIELD FILTER

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street - Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **05-223**

05-223

74

Company: **GREENWATER INC.**
 Project Number: **05147-024-11**
 Project Name: **Quiet Cove - Post Interim Action**
 Project Manager: **Bryan Tracy**
 Sampled by: **NATHAN SOLOMON**

Lab ID Sample Identification

Date Sampled Time Sampled Matrix

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	
NWTPH-Gx	
NWTPH-Dx (Acid / SG Clean-up) WITH AND WITHOUT ACU / SG	
Volatiles 8260 X X	
Halogenated Volatiles 8260	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270/SIM (with low-level PAHs)	
PAHs 8270/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
MTCA Total Oil and Grease 1064	
TOTAL DIS. METALS	
DISSOLVED METHANE	
TOTAL ALKALINITY	
FEROUS IRON*	
NITRATE & SULFATE*	
% Moisture Dis Mn	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up) WITH AND WITHOUT ACU / SG	Volatiles 8260 X X	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	MTCA Total Oil and Grease 1064	TOTAL DIS. METALS	DISSOLVED METHANE	TOTAL ALKALINITY	FEROUS IRON*	NITRATE & SULFATE*	% Moisture Dis Mn	
8	MW-1A, 051922	5.19.22	1300	WATER	12			X	X	X																			
9	DUF-1, 051922	↓	1200	↓	12			X	X	X																			

Signature

Company

Date

Time

Comments/Special Instructions

*** SAMPLES TAKEN TO FREIGHT AVAILABLE**
FF = FIELD FILTER

[Handwritten Signature]

[Handwritten Signature]

05/19/22 1451
 5/19/22 1451

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

Sample/Cooler Receipt and Acceptance Checklist

Client: GES
 Client Project Name/Number: 05147-024-11
 OnSite Project Number: 05-223

Initiated by: BG/MMV
 Date Initiated: 5/19/22

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature: <u>3.1°C</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A					
1.7 How were the samples delivered?	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1	2	3	4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- Gasoline Range Organics NWTPH-Gx
- Diesel and Heavy Oil Range Organics NWTPH-Dx
- Volatiles Organics EPA 8260D
- Dissolved Methane RSK 175
- Alkalinity SM 2320B
- Total Metals EPA 200.8/7470A
- Dissolved Metals EPA 200.8/7470A

Gasoline Range Organics
NWTPH-Gx Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523006.D Vial: 6
 Acq On : 23 May 2022 15:03 Operator:
 Sample : 05-223-01h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 23 15:22 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.08	7301771	36.459 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	10442580	39.499 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	9832225	0.060 PPM
3) H GASOLINE #2 (3-29-22)	14.74	6795814	0.047 PPM
4) MTBE #2	6.56	5234	0.228 PPB
5) BENZENE #2	8.89	12194	0.026 PPB
7) TOLUENE #2	11.38	69046	0.212 PPB
8) ETHYLBENZENE #2	13.41	17098	0.092 PPB
9) m,p-XYLENE #2	13.65	174710	0.506 PPB
10) o-XYLENE #2	14.16	32912	0.090 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523006.D
Acq On : 23 May 2022 15:03
Sample : 05-223-01h
Misc :

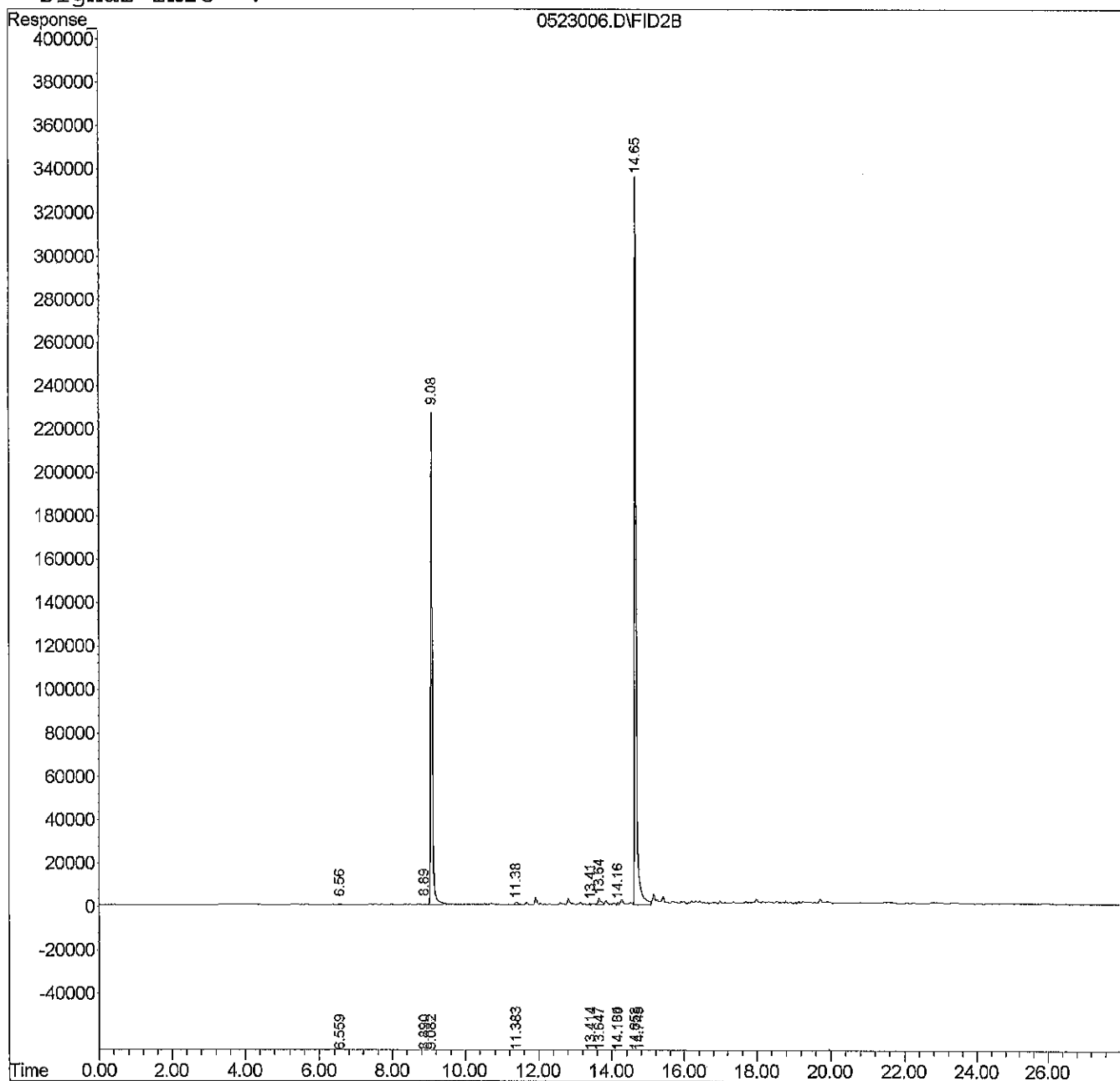
Vial: 6
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 15:22 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523007.D Vial: 7
 Acq On : 23 May 2022 15:33 Operator:
 Sample : 05-223-02h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 15:58 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.07	7261465	36.257 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	10407150	39.364 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	8206565	0.047 PPM
3) H GASOLINE #2 (3-29-22)	14.74	5286492	0.033 PPM
4) MTBE #2	6.54	3954	0.193 PPB
5) BENZENE #2	8.88	10232	0.018 PPB
7) TOLUENE #2	11.37	43735	0.110 PPB
8) ETHYLBENZENE #2	13.32	6592	0.046 PPB
9) m,p-XYLENE #2	13.65	89834	0.182 PPB
10) o-XYLENE #2	14.16	50588	0.169 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523007.D
Acq On : 23 May 2022 15:33
Sample : 05-223-02h
Misc :

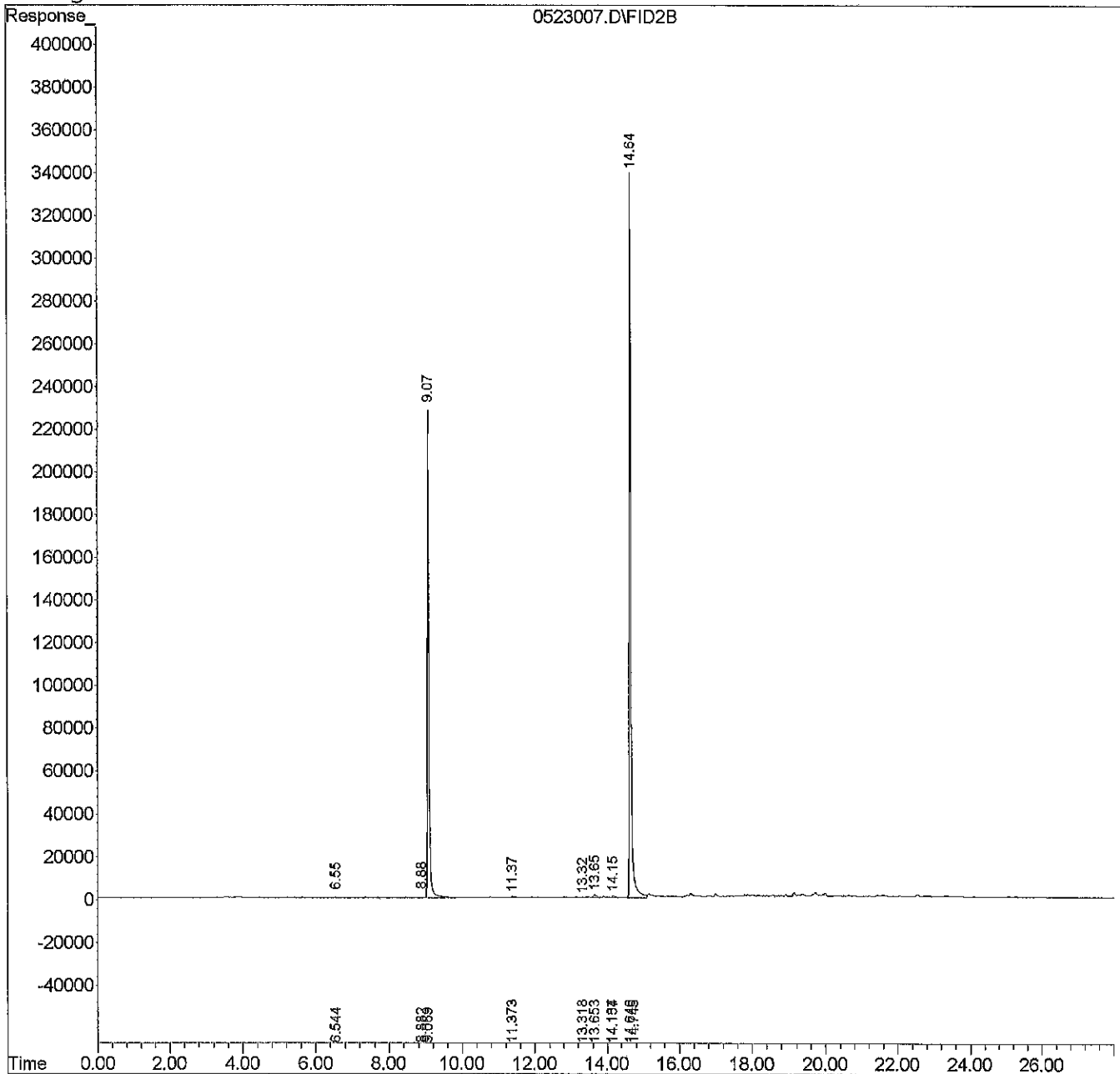
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 15:58 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523016.D Vial: 16
 Acq On : 23 May 2022 21:08 Operator:
 Sample : 05-223-03h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 23 21:23 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.06	7236985	36.134 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	10412306	39.384 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	13612557	0.091 PPM
3) H GASOLINE #2 (3-29-22)	14.74	8337288	0.062 PPM
4) MTBE #2	6.54	1788	0.134 PPB
5) BENZENE #2	8.87	27492	0.086 PPB
7) TOLUENE #2	11.36	76757	0.243 PPB
8) ETHYLBENZENE #2	13.37	93012	0.425 PPB
9) m,p-XYLENE #2	13.63	186094	0.549 PPB
10) o-XYLENE #2	14.13	89126	0.342 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523016.D
Acq On : 23 May 2022 21:08
Sample : 05-223-03h
Misc :

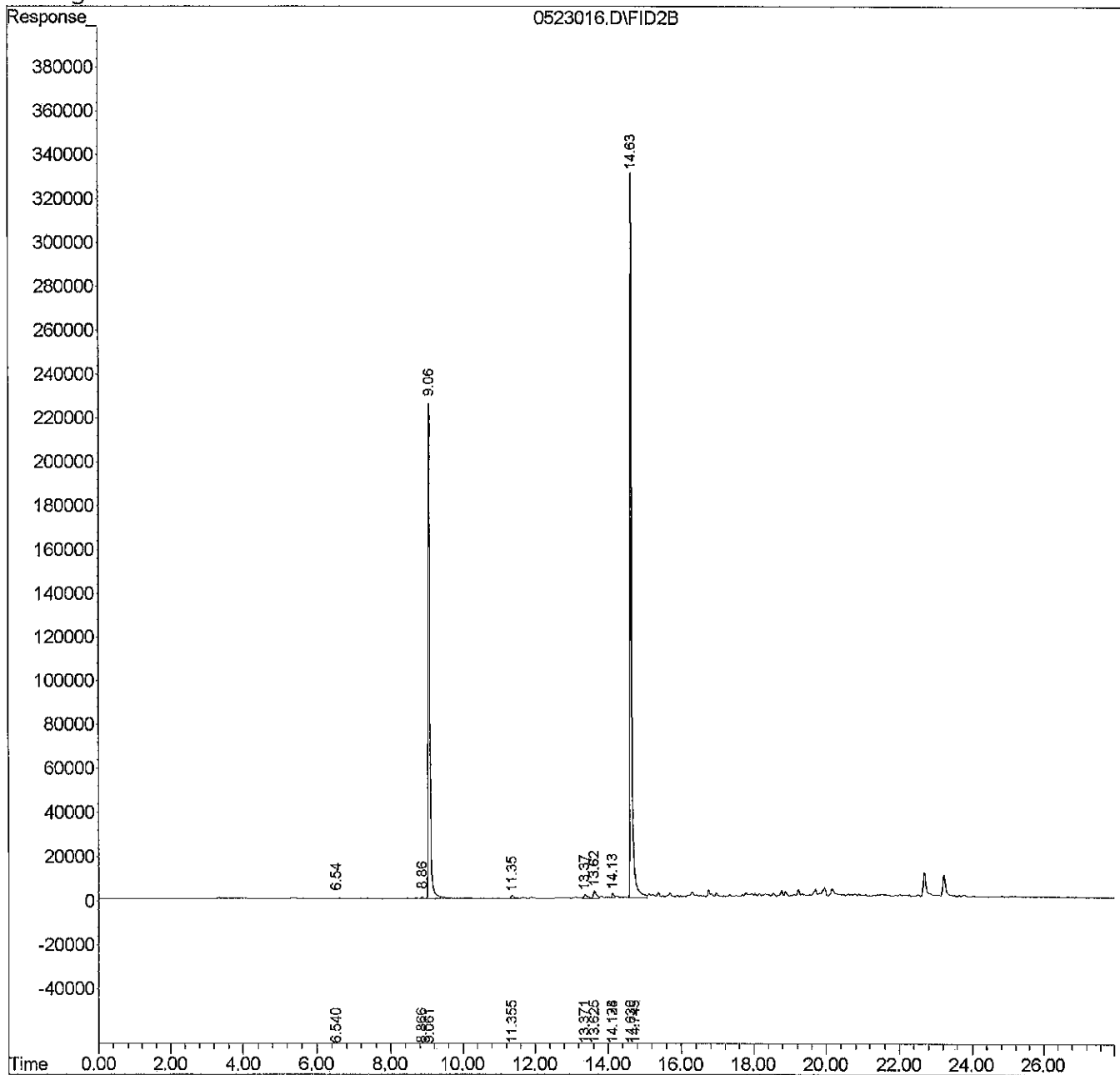
Vial: 16
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 21:23 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523017.D Vial: 17
 Acq On : 23 May 2022 21:38 Operator:
 Sample : 05-223-04h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 25 13:02 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.05	7143890	35.668 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	10252106	38.777 PPB <i>m pcc 5-27</i>
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	32842544	0.249 PPM
3) H GASOLINE #2 (3-29-22)	14.74	25785789	0.229 PPM
4) MTBE #2	6.47	1017	0.113 PPB
5) BENZENE #2	8.83	14036	0.033 PPB
7) TOLUENE #2	11.33	32693	0.065 PPB
8) ETHYLBENZENE #2	13.37	22704	0.117 PPB
9) m,p-XYLENE #2	13.63	61052	0.072 PPB
10) o-XYLENE #2	14.13	64898	0.233 PPB

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523017.D
Acq On : 23 May 2022 21:38
Sample : 05-223-04h
Misc :

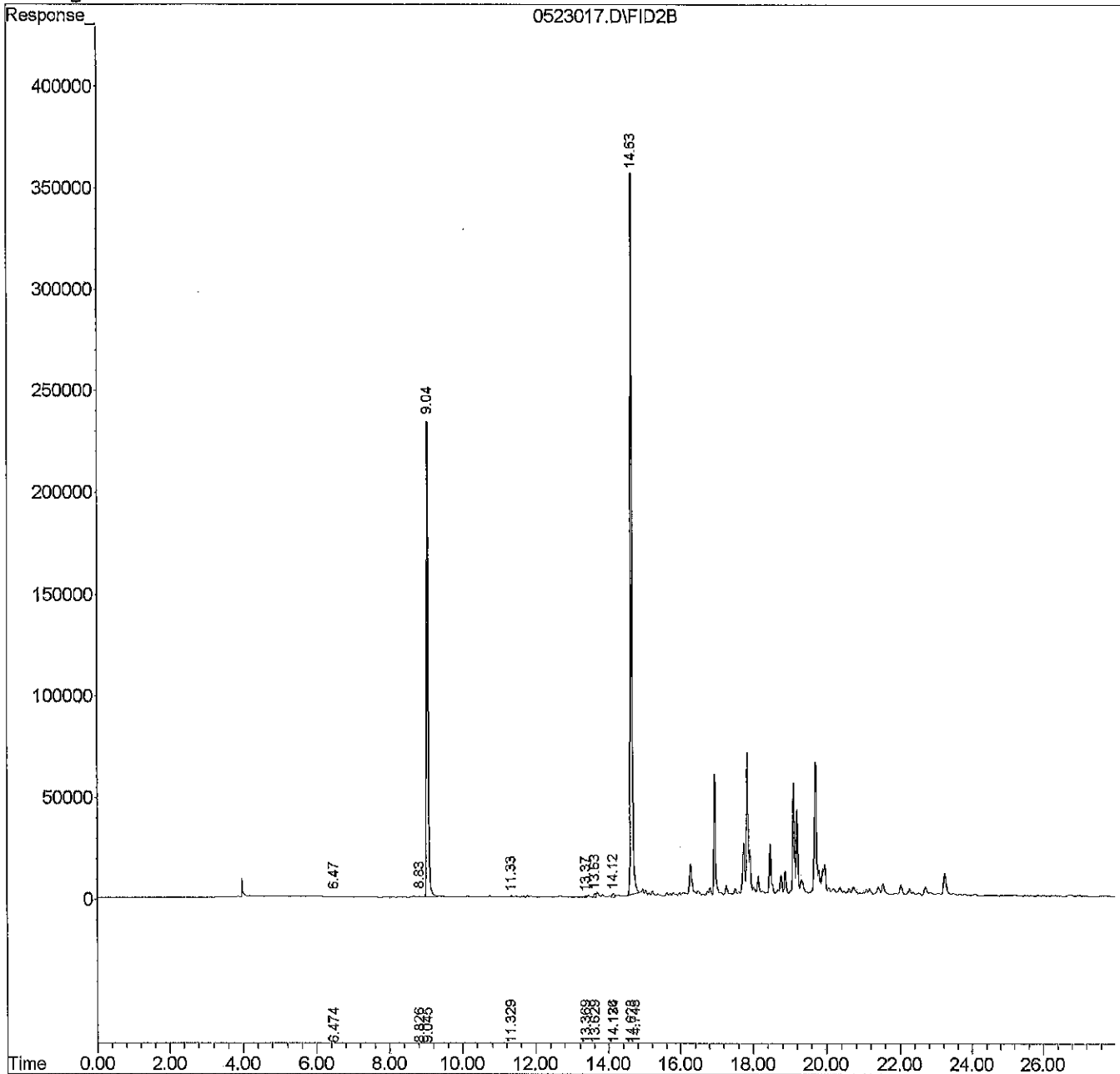
Vial: 17
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 25 13:02 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523018.D Vial: 18
 Acq On : 23 May 2022 22:08 Operator:
 Sample : 05-223-05h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 24 10:46 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
6) S FLUOROBENZENE #2 (1-21-22	9.05	7401474	36.959	PPB m
11) S BROMOFLUOROBENZENE #2 (1-	14.63	11191912	42.338	PPB m <i>Bclw 5-27</i>
Target Compounds				
2) H Entire GAS Envelope #2 (3-	14.13	59827824	0.471	PPM
3) H GASOLINE #2 (3-29-22)	14.74	35286669	0.320	PPM
4) MTBE #2	6.52	804887	21.937	PPB
5) BENZENE #2	8.82	5016289	19.568	PPB m
7) TOLUENE #2	11.30	191226	0.707	PPB m
8) ETHYLBENZENE #2	13.34	142022	0.640	PPB m
9) m,p-XYLENE #2	13.60	293914	0.961	PPB m
10) o-XYLENE #2	14.12	75519	0.281	PPB

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523018.D
Acq On : 23 May 2022 22:08
Sample : 05-223-05h
Misc :

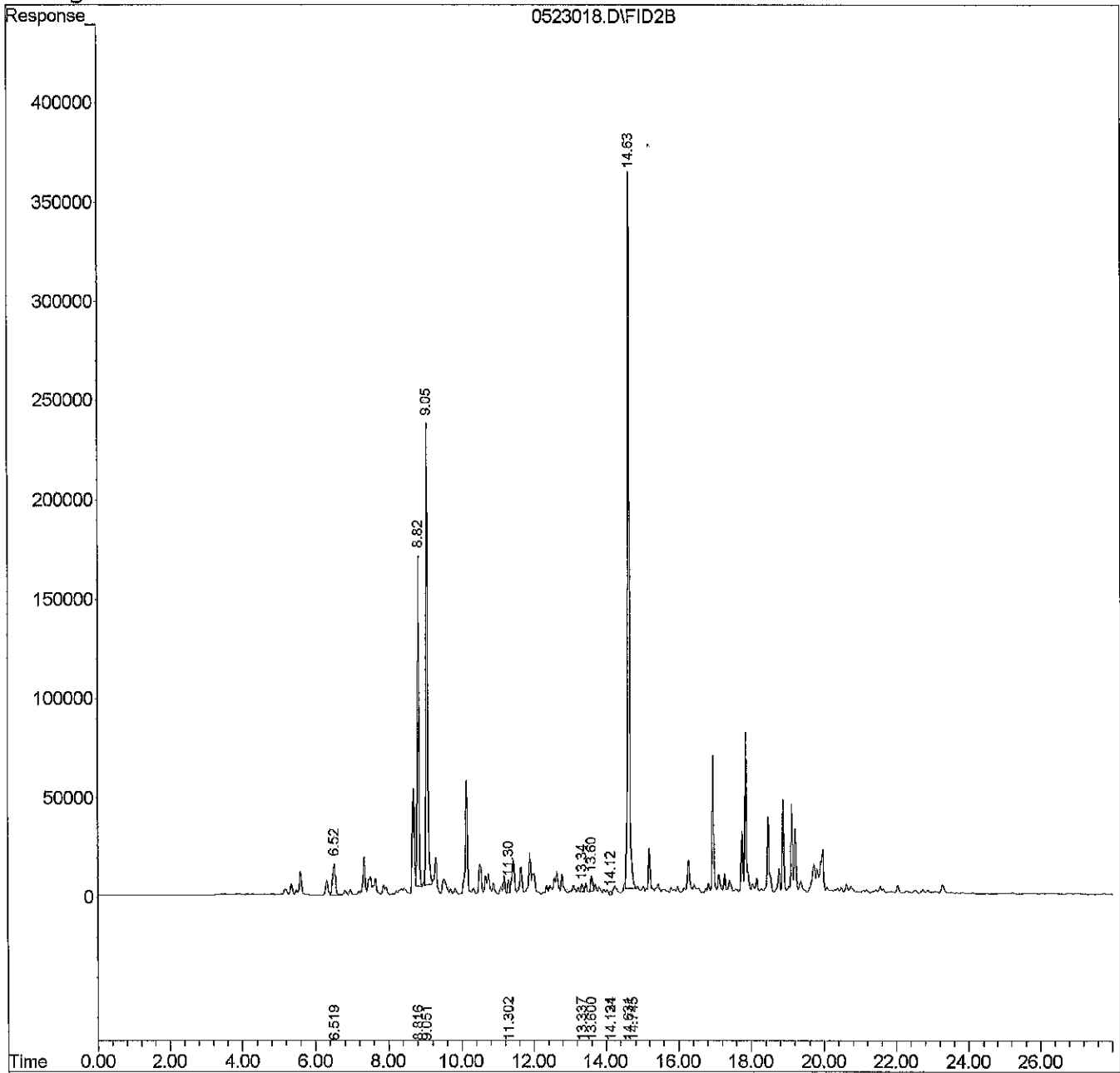
Vial: 18
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 24 10:46 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526007.D Vial: 7
 Acq On : 26 May 2022 14:06 Operator:
 Sample : 05-223-06h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 27 9:56 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.08	7304960	36.475 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10242170	38.739 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	9254722	0.055 PPM
3) H GASOLINE #2 (3-29-22)	14.74	5052985	0.031 PPM
4) MTBE #2	6.53	248118	6.822 PPB
5) BENZENE #2	8.85	851775	3.305 PPB
7) TOLUENE #2	11.38	82467	0.266 PPB
8) ETHYLBENZENE #2	13.38	122058	0.553 PPB
9) m,p-XYLENE #2	13.63	257568	0.822 PPB
10) o-XYLENE #2	14.14	83937	0.318 PPB

m BW
5-27

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526007.D
Acq On : 26 May 2022 14:06
Sample : 05-223-06h
Misc :

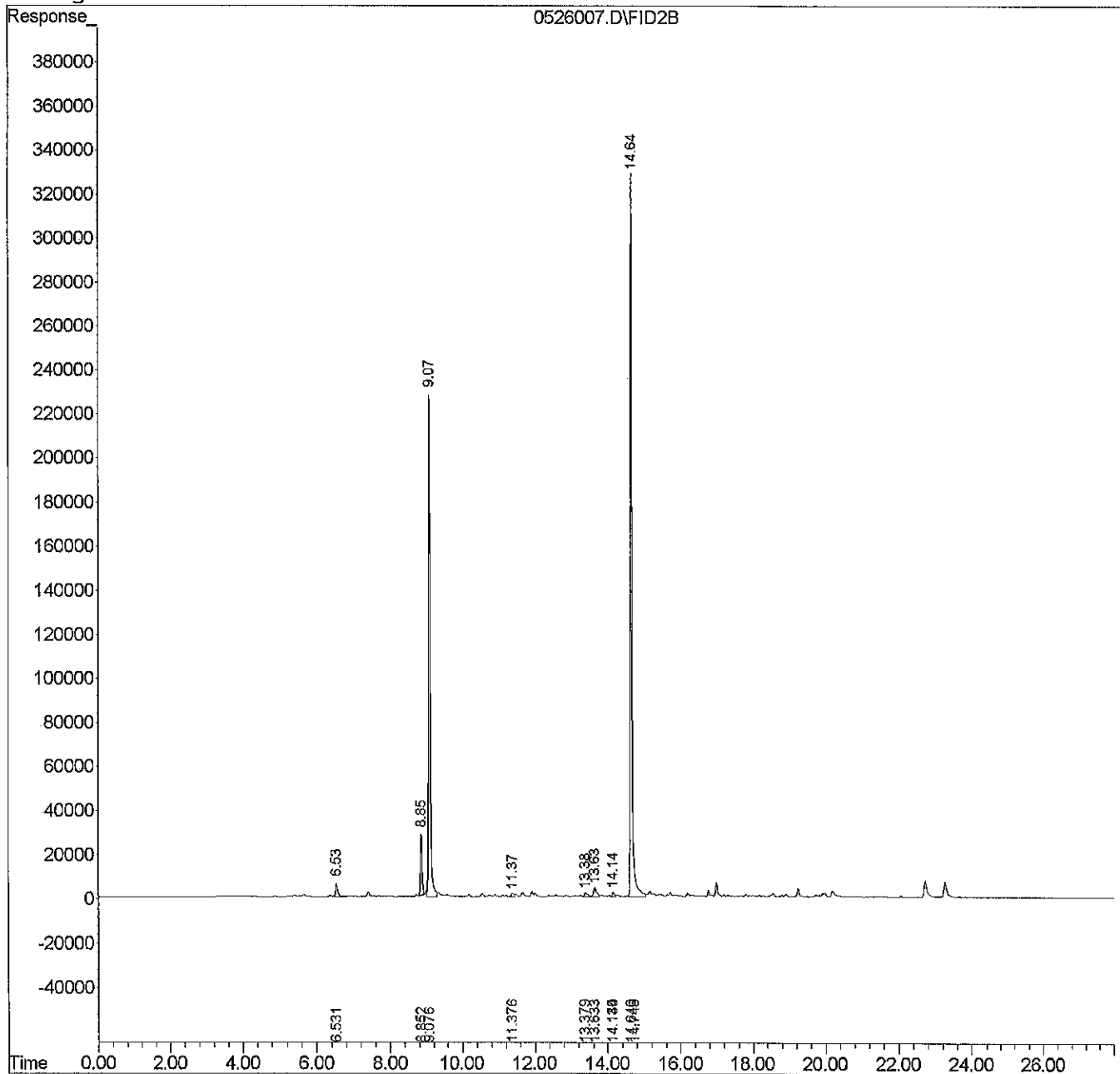
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 27 9:56 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523019.D Vial: 19
 Acq On : 23 May 2022 22:53 Operator:
 Sample : 05-223-07h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 23 23:10 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.06	7278784	36.344 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10378734	39.257 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	6746050	0.034 PPM
3) H GASOLINE #2 (3-29-22)	14.74	4314928	0.024 PPM
4) MTBE #2	6.55	7633	0.293 PPB
5) BENZENE #2	8.87	22511	0.066 PPB
7) TOLUENE #2	0.00	0	N.D. PPB
8) ETHYLBENZENE #2	13.43	20370	0.106 PPB
9) m,p-XYLENE #2	13.66	54866	0.048 PPB
10) o-XYLENE #2	14.16	19984	0.032 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523019.D
Acq On : 23 May 2022 22:53
Sample : 05-223-07h
Misc :

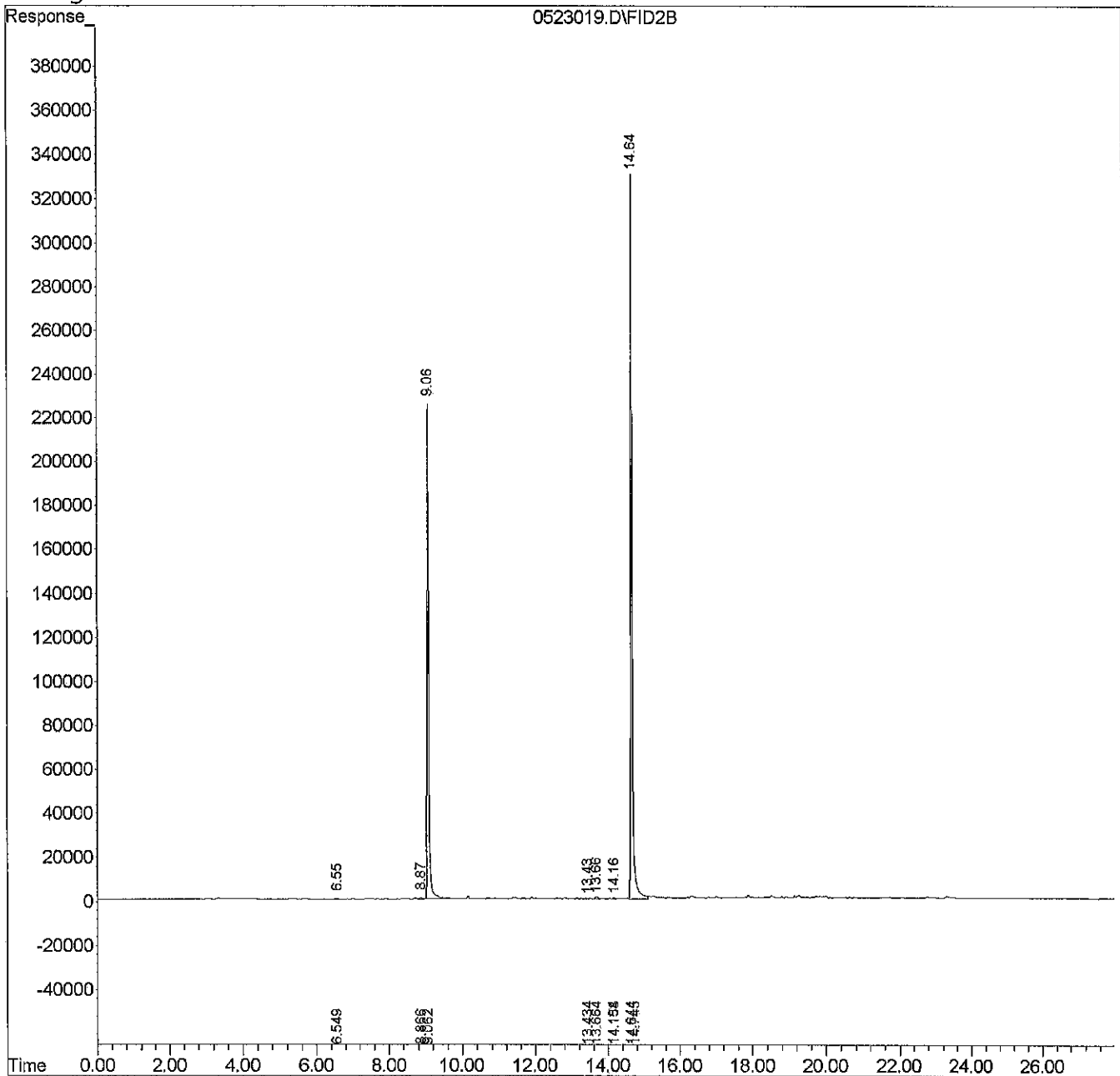
Vial: 19
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 23:10 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523020.D Vial: 20
 Acq On : 23 May 2022 23:24 Operator:
 Sample : 05-223-08h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 23 23:45 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.07	7226375	36.081 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10306338	38.982 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	8466949	0.049 PPM
3) H GASOLINE #2 (3-29-22)	14.74	5328274	0.033 PPM
4) MTBE #2	6.56	6294	0.257 PPB
5) BENZENE #2	8.88	13182	0.030 PPB
7) TOLUENE #2	11.30	1733	N.D. PPB
8) ETHYLBENZENE #2	13.25	4701	0.038 PPB
9) m,p-XYLENE #2	13.66	72454	0.116 PPB
10) o-XYLENE #2	14.15	15198	0.010 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523020.D
Acq On : 23 May 2022 23:24
Sample : 05-223-08h
Misc :

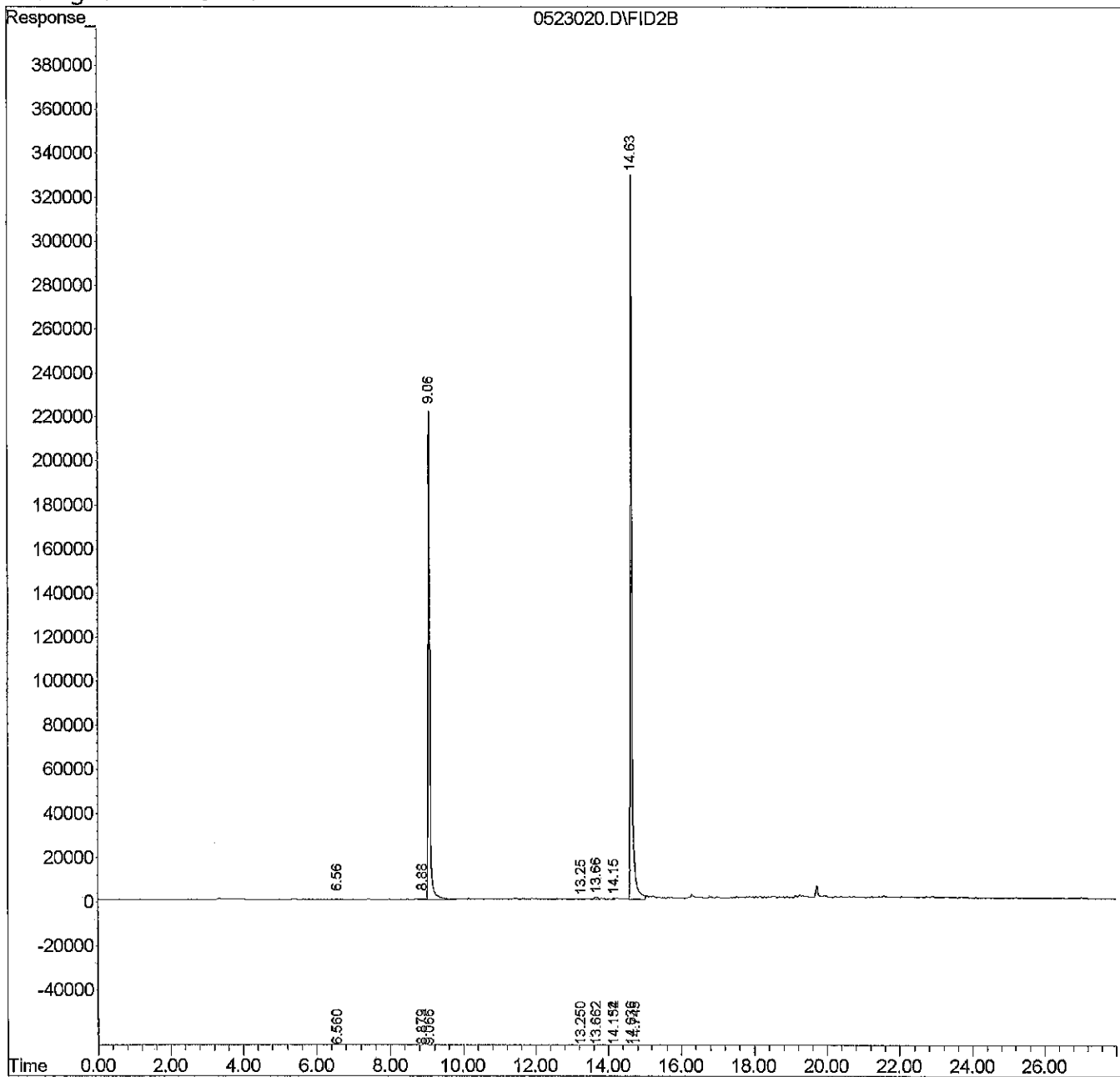
Vial: 20
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 23:45 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523021.D Vial: 21
 Acq On : 23 May 2022 23:54 Operator:
 Sample : 05-223-09h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 24 0:21 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.07	7225697	36.078 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10311650	39.002 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	6686979	0.034 PPM
3) H GASOLINE #2 (3-29-22)	14.74	4550575	0.026 PPM
4) MTBE #2	6.55	3552	0.182 PPB
5) BENZENE #2	8.89	9746	0.017 PPB
7) TOLUENE #2	11.31	1896	N.D. PPB
8) ETHYLBENZENE #2	13.25	5132	0.040 PPB
9) m,p-XYLENE #2	13.58	7969	N.D. PPB
10) o-XYLENE #2	14.16	14623	0.008 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523021.D
Acq On : 23 May 2022 23:54
Sample : 05-223-09h
Misc :

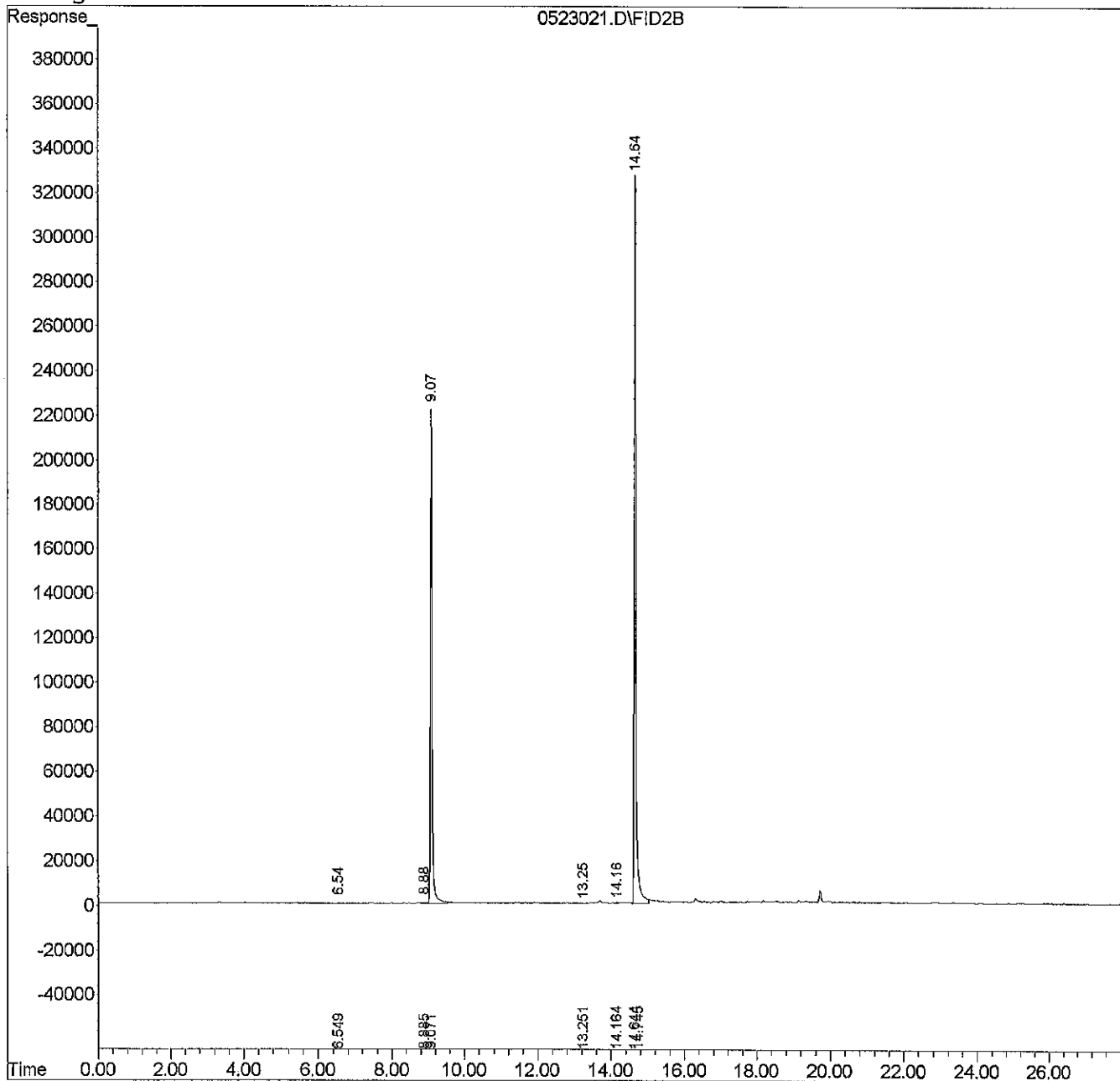
Vial: 21
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 24 0:21 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523005.D Vial: 5
 Acq On : 23 May 2022 14:18 Operator:
 Sample : MB0523W2 Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 23 14:44 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.08	7320339	36.552 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	10705575	40.495 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	10421328	0.065 PPM
3) H GASOLINE #2 (3-29-22)	14.74	6754886	0.047 PPM
4) MTBE #2	6.54	10332	0.366 PPB
5) BENZENE #2	8.86	29270	0.093 PPB
7) TOLUENE #2	11.34	149439	0.538 PPB
8) ETHYLBENZENE #2	13.39	74029	0.342 PPB
9) m,p-XYLENE #2	13.63	227460	0.707 PPB
10) o-XYLENE #2	14.15	126488	0.509 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523005.D
Acq On : 23 May 2022 14:18
Sample : MB0523W2
Misc :

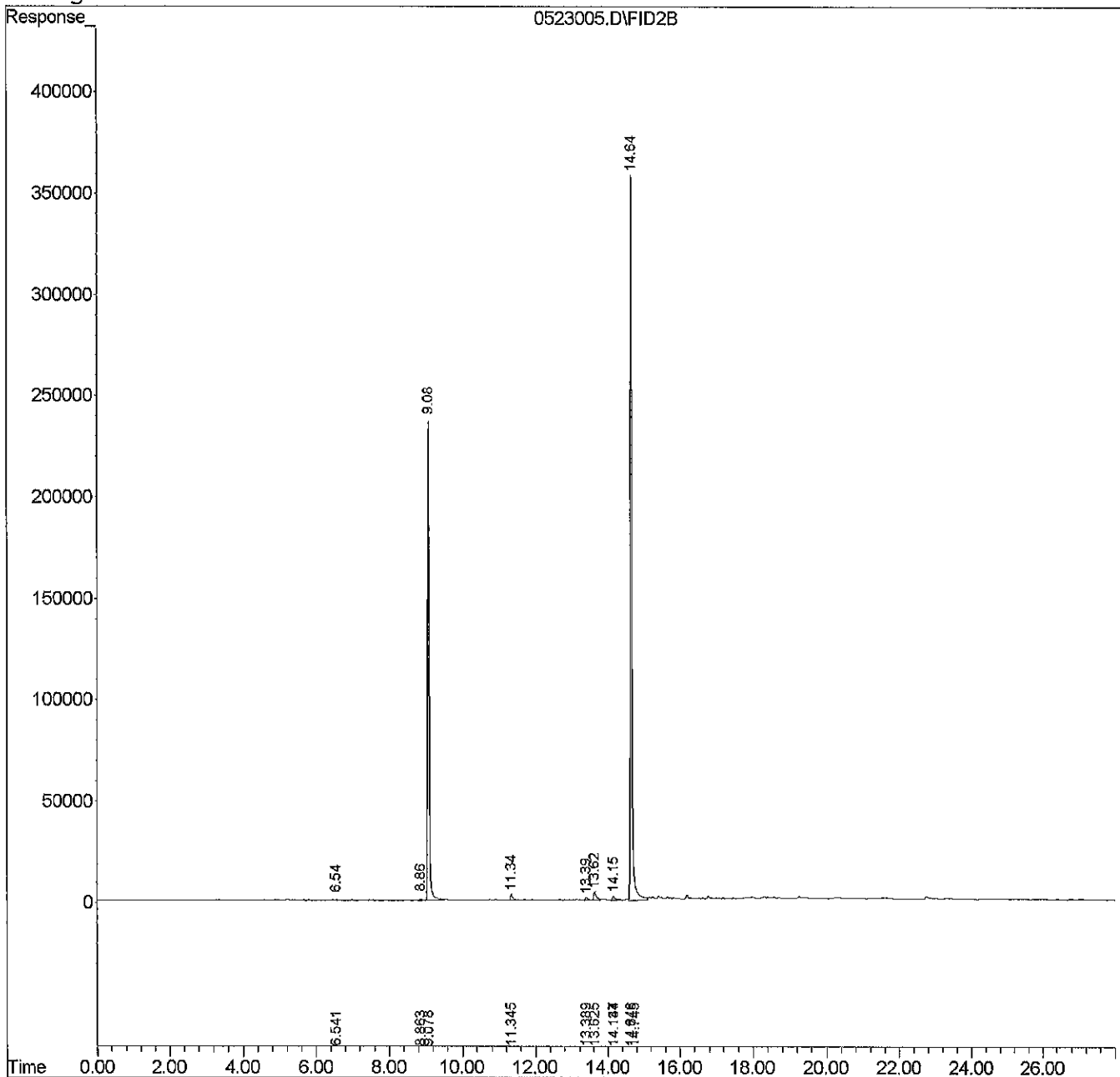
Vial: 5
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 14:44 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526003.D Vial: 3
 Acq On : 26 May 2022 11:20 Operator:
 Sample : MB0526W1 Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 26 11:39 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.07	7302216	36.461 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10184315	38.520 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	5434353	0.024 PPM
3) H GASOLINE #2 (3-29-22)	14.74	3300578	0.014 PPM
4) MTBE #2	6.55	6946	0.274 PPB
5) BENZENE #2	8.86	47938	0.166 PPB
7) TOLUENE #2	11.35	111961	0.386 PPB
8) ETHYLBENZENE #2	13.37	98458	0.449 PPB
9) m,p-XYLENE #2	13.62	279036	0.904 PPB
10) o-XYLENE #2	14.14	121875	0.488 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526003.D
Acq On : 26 May 2022 11:20
Sample : MB0526W1
Misc :

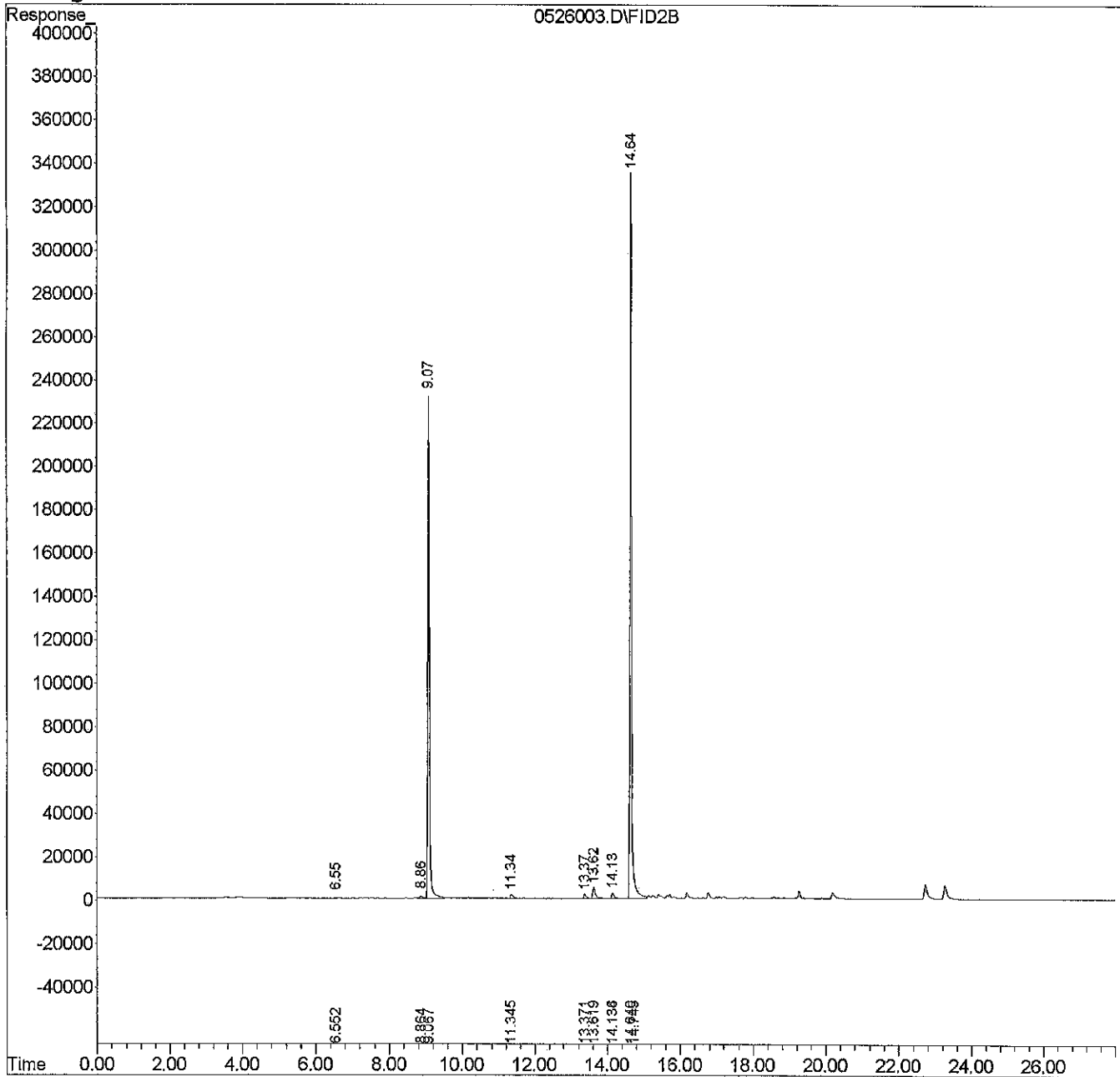
Vial: 3
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 26 11:39 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523007.D Vial: 7
 Acq On : 23 May 2022 15:33 Operator:
 Sample : 05-223-02h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 23 15:58 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.07	7261465	36.257 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	10407150	39.364 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	8206565	0.047 PPM
3) H GASOLINE #2 (3-29-22)	14.74	5286492	0.033 PPM
4) MTBE #2	6.54	3954	0.193 PPB
5) BENZENE #2	8.88	10232	0.018 PPB
7) TOLUENE #2	11.37	43735	0.110 PPB
8) ETHYLBENZENE #2	13.32	6592	0.046 PPB
9) m,p-XYLENE #2	13.65	89834	0.182 PPB
10) o-XYLENE #2	14.16	50588	0.169 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523007.D
Acq On : 23 May 2022 15:33
Sample : 05-223-02h
Misc :

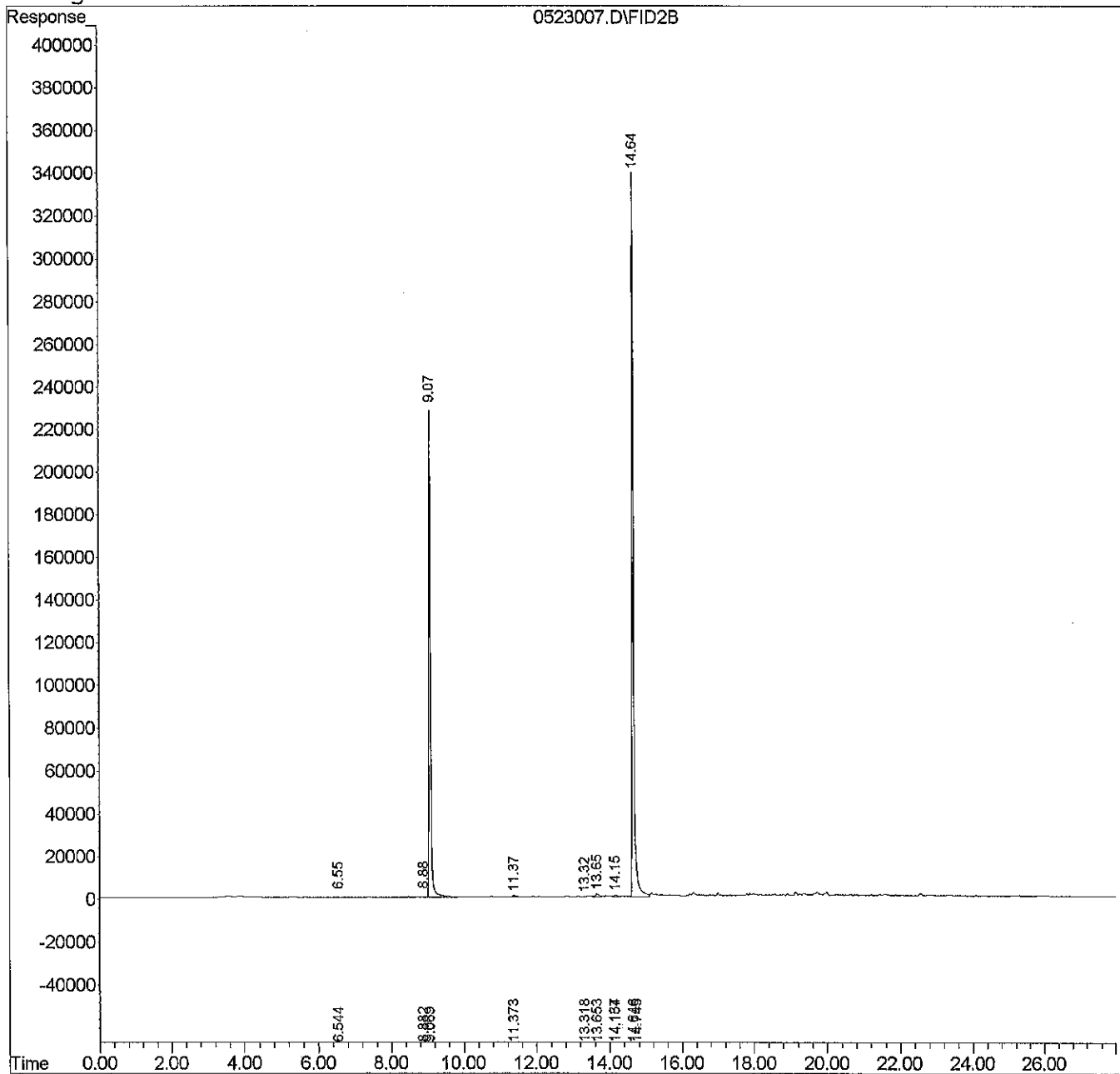
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 15:58 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220523\0523009.D          Vial: 9
Acq On    : 23 May 2022 16:49                          Operator:
Sample    : 05-223-02h DUP                               Inst  : Hope
Misc      :                                               Multiplr: 1.00
                                                Sample Amount: 0.00

IntFile   : EVENTS1.E
    
```

Quant Time: May 23 17:09 2022 Quant Results File: 220510B.RES

```

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Wed May 11 14:34:59 2022
Response via : Initial Calibration
DataAcq Meth : 220510B.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.08	7232570	36.112 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10354277	39.164 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	6784199	0.035 PPM
3) H GASOLINE #2 (3-29-22)	14.74	4496684	0.025 PPM
4) MTBE #2	6.57	3764	0.188 PPB
5) BENZENE #2	8.90	7932	0.009 PPB
7) TOLUENE #2	11.40	38824	0.090 PPB
8) ETHYLBENZENE #2	13.31	3708	0.033 PPB
9) m,p-XYLENE #2	13.66	80027	0.144 PPB
10) o-XYLENE #2	14.16	44074	0.140 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523009.D
Acq On : 23 May 2022 16:49
Sample : 05-223-02h DUP
Misc :

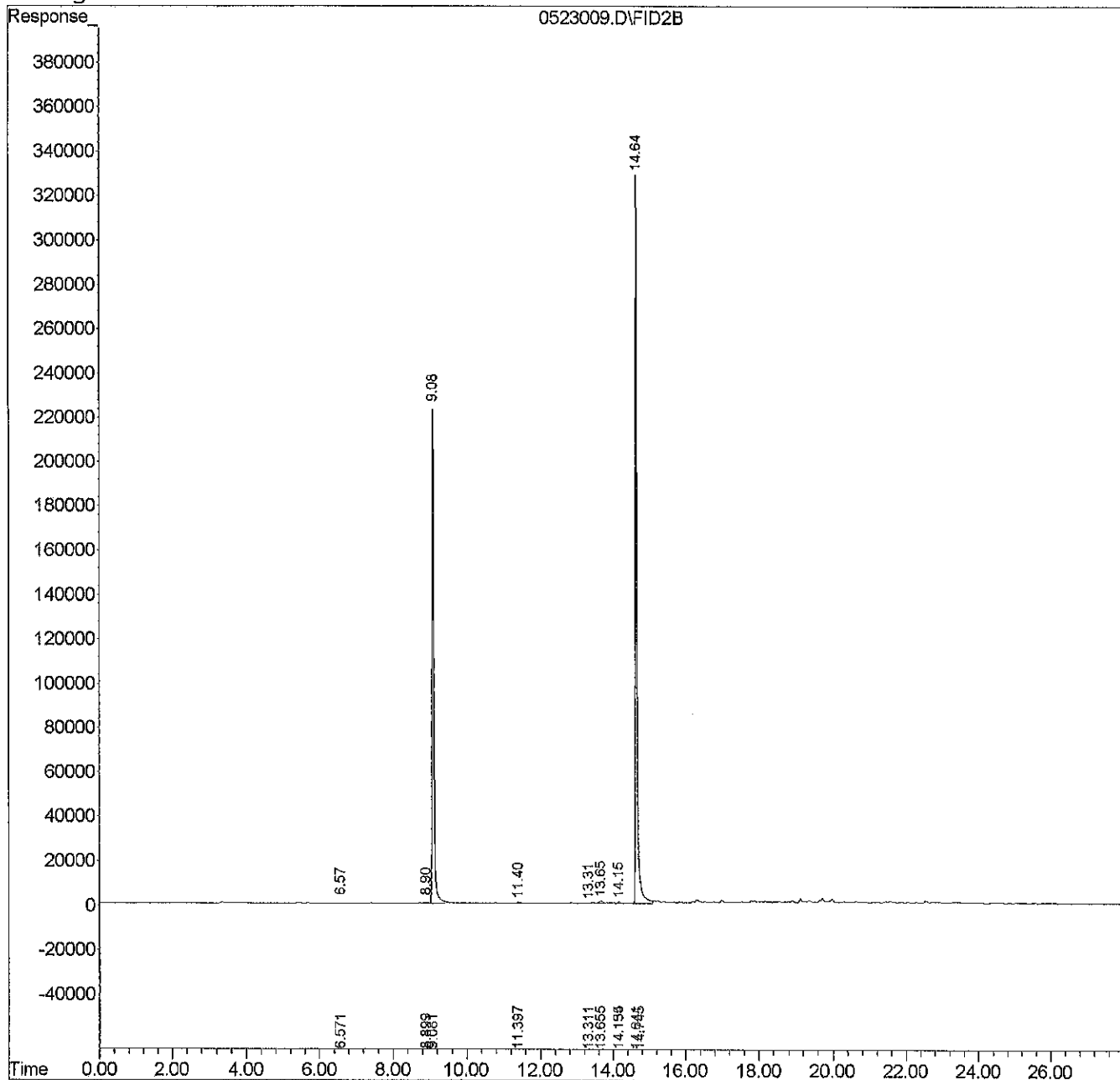
Vial: 9
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 17:09 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526007.D
 Acq On : 26 May 2022 14:06
 Sample : 05-223-06h
 Misc :

Vial: 7
 Operator:
 Inst : Hope
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 27 9:56 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.08	7304960	36.475 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	10242170	38.739 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	9254722	0.055 PPM
3) H GASOLINE #2 (3-29-22)	14.74	5052985	0.031 PPM
4) MTBE #2	6.53	248118	6.822 PPB
5) BENZENE #2	8.85	851775	3.305 PPB
7) TOLUENE #2	11.38	82467	0.266 PPB
8) ETHYLBENZENE #2	13.38	122058	0.553 PPB
9) m,p-XYLENE #2	13.63	257568	0.822 PPB
10) o-XYLENE #2	14.14	83937	0.318 PPB

m DCU
5-27

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526007.D
Acq On : 26 May 2022 14:06
Sample : 05-223-06h
Misc :

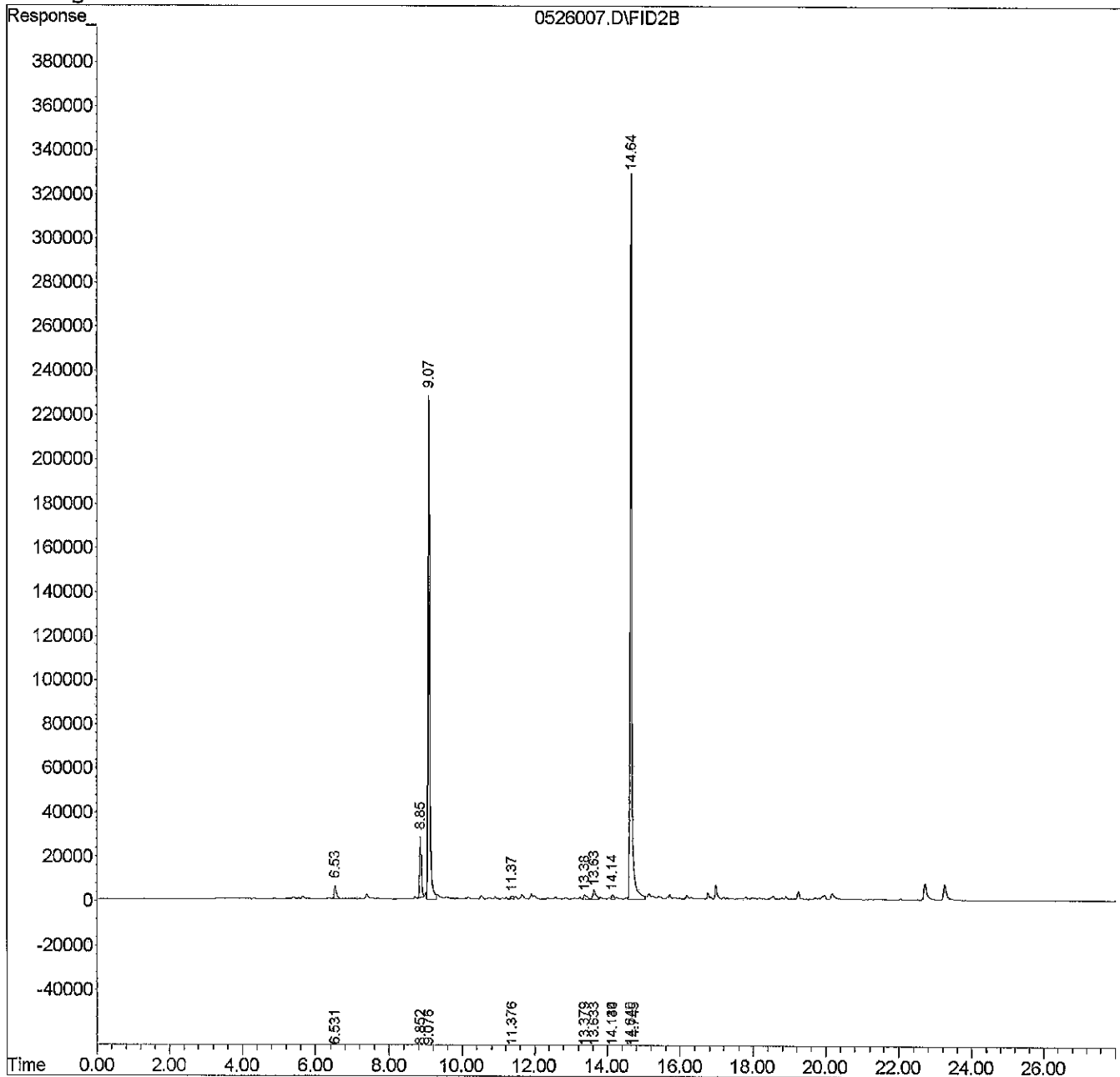
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 27 9:56 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526008.D Vial: 8
 Acq On : 26 May 2022 14:36 Operator:
 Sample : 05-223-06h DUP Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 27 9:56 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.07	7275973	36.330 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	10204737	38.597 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	7051884	0.037 PPM
3) H GASOLINE #2 (3-29-22)	14.74	3918794	0.020 PPM
4) MTBE #2	6.51	230982	6.356 PPB
5) BENZENE #2	8.85	793231	3.076 PPB
7) TOLUENE #2	11.40	54495	0.153 PPB
8) ETHYLBENZENE #2	13.40	27057	0.136 PPB
9) m,p-XYLENE #2	13.65	176111	0.511 PPB
10) o-XYLENE #2	14.16	40003	0.121 PPB

m BCU
5-27

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526008.D
Acq On : 26 May 2022 14:36
Sample : 05-223-06h DUP
Misc :

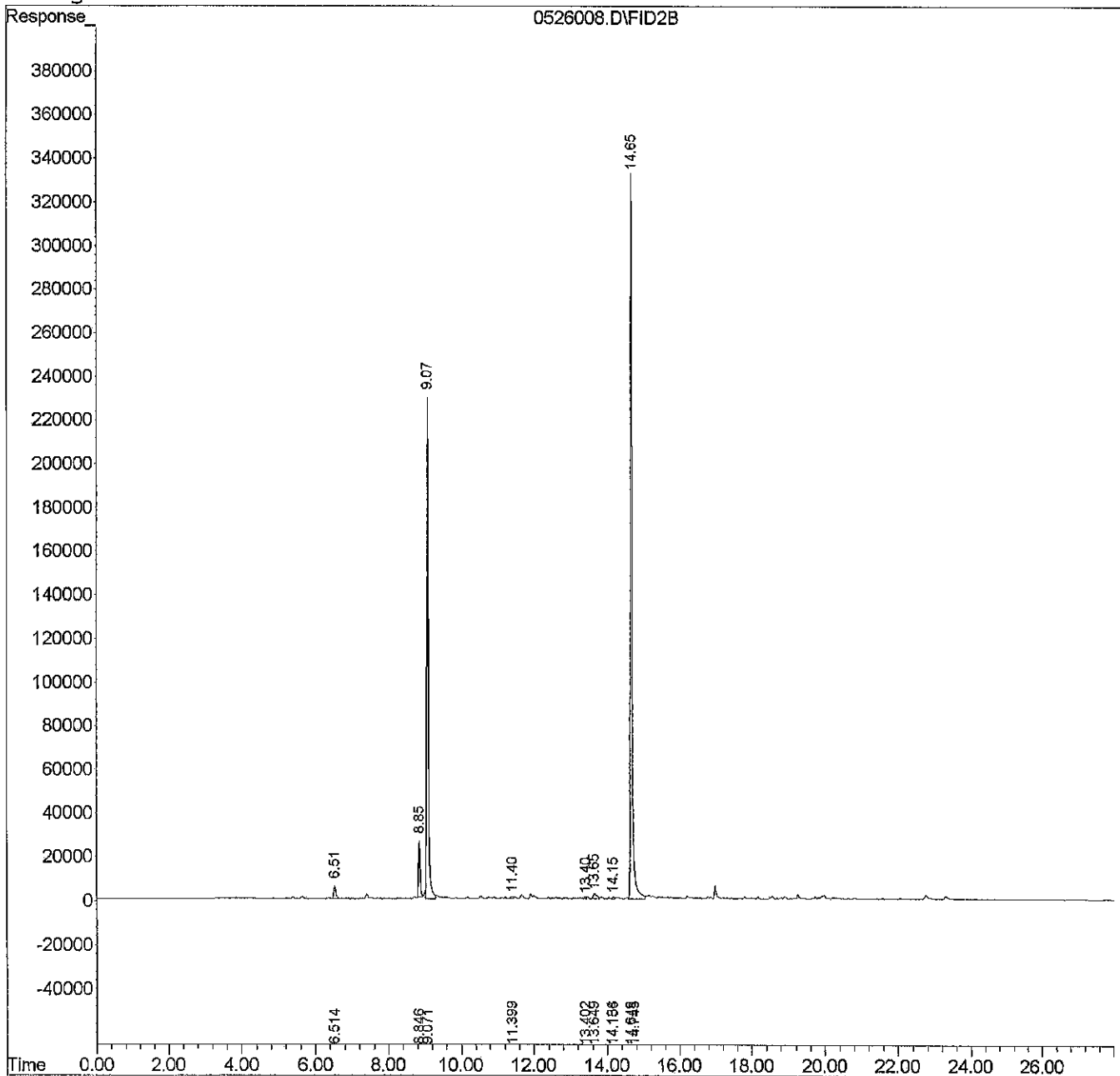
Vial: 8
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 27 9:56 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220523\0523001.D           Vial: 1
Acq On    : 23 May 2022 12:02                             Operator:
Sample    : CCVH0523G-1                                   Inst  : Hope
Misc      : V2-064-25                                     Multiplr: 1.00
                                                    Sample Amount: 0.00

IntFile   : EVENTS1.E
    
```

Quant Time: May 23 12:20 2022 Quant Results File: 220510B.RES

```

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Wed May 11 14:34:59 2022
Response via : Initial Calibration
DataAcq Meth : 220510B.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.08	7370213	36.802 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	11980839	45.327 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	314133425	2.563 PPM
3) H GASOLINE #2 (3-29-22)	14.74	270435847	2.573 PPM
4) MTBE #2	6.55	1353989	36.844 PPB
5) BENZENE #2	8.84	5610902	21.890 PPB
7) TOLUENE #2	11.31	55401495	224.401 PPB
8) ETHYLBENZENE #2	13.33	14300985	62.749 PPB
9) m,p-XYLENE #2	13.58	60166917	229.432 PPB
10) o-XYLENE #2	14.11	23594396	105.649 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523001.D
Acq On : 23 May 2022 12:02
Sample : CCVH0523G-1
Misc : V2-064-25

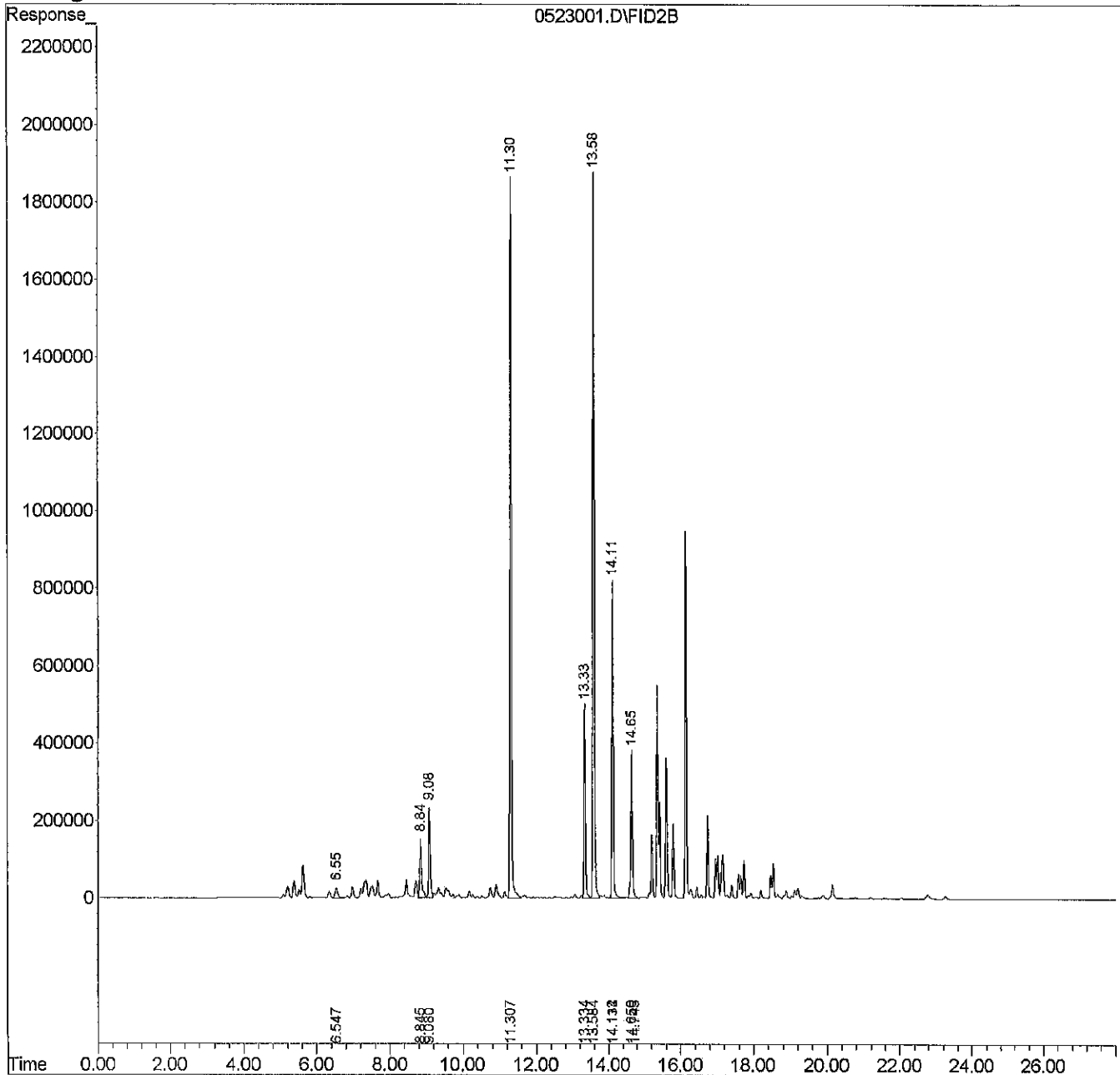
Vial: 1
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 23 12:20 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523023.D Vial: 23
 Acq On : 24 May 2022 1:09 Operator:
 Sample : CCVH0523G-2 Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 24 1:34 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.07	7388286	36.893 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.64	11711718	44.307 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	289907768	2.364 PPM
3) H GASOLINE #2 (3-29-22)	14.74	252180678	2.398 PPM
4) MTBE #2	6.55	1124332	30.609 PPB
5) BENZENE #2	8.83	5144755	20.070 PPB
7) TOLUENE #2	11.29	53322775	215.979 PPB
8) ETHYLBENZENE #2	13.32	13481986	59.156 PPB
9) m,p-XYLENE #2	13.57	57612001	219.682 PPB
10) o-XYLENE #2	14.10	22338666	100.023 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220523\0523023.D
Acq On : 24 May 2022 1:09
Sample : CCVH0523G-2
Misc :

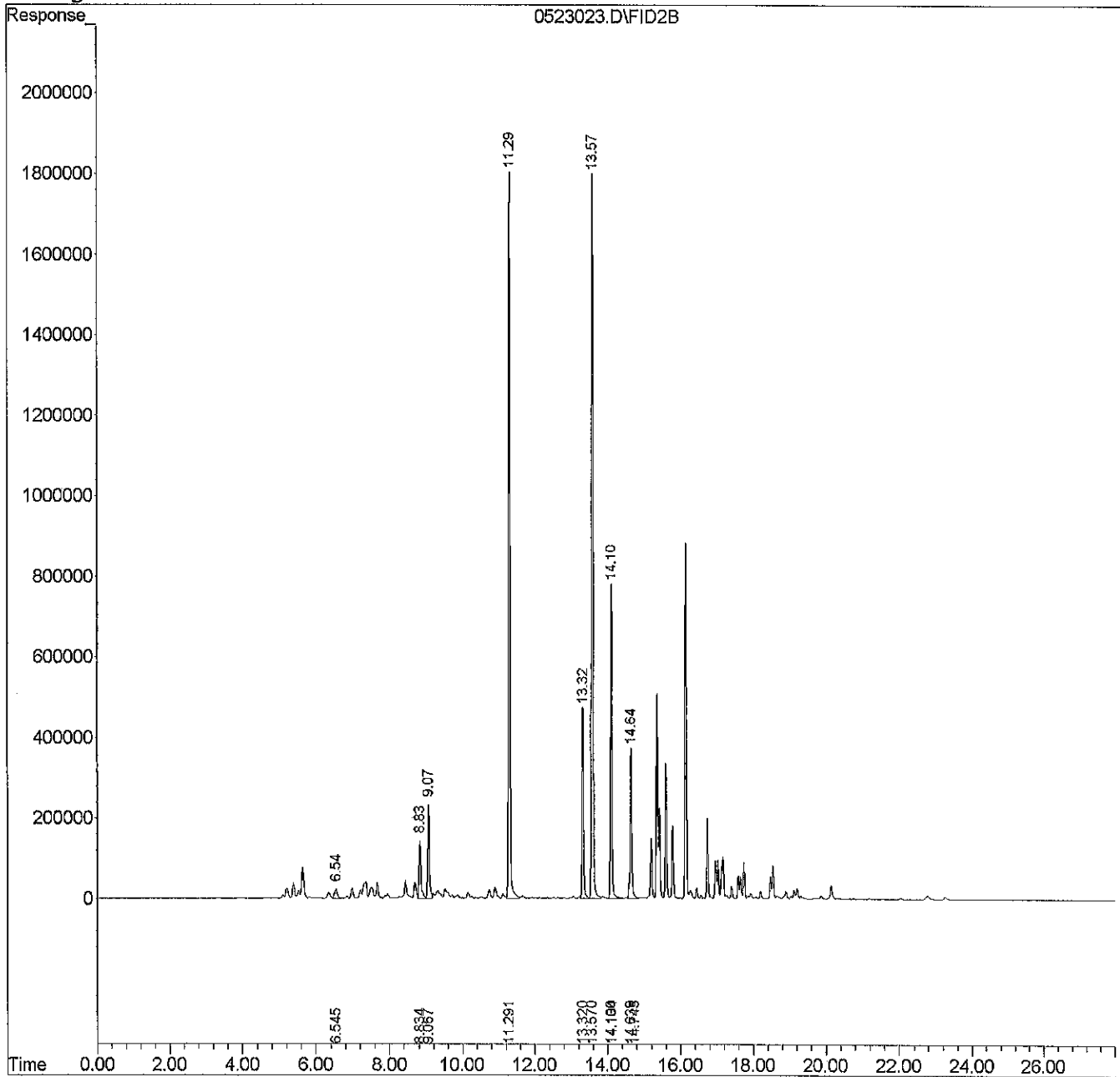
Vial: 23
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 24 1:34 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526001.D Vial: 1
 Acq On : 26 May 2022 10:04 Operator:
 Sample : CCVH0526G-1 Inst : Hope
 Misc : V2-064-25 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 26 10:27 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.07	7517479	37.540 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.65	11864456	44.886 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	316982974	2.587 PPM
3) H GASOLINE #2 (3-29-22)	14.74	277361515	2.639 PPM
4) MTBE #2	6.54	1139983	31.034 PPB
5) BENZENE #2	8.84	5312406	20.724 PPB
7) TOLUENE #2	11.30	56493927	228.827 PPB
8) ETHYLBENZENE #2	13.33	14551225	63.847 PPB
9) m,p-XYLENE #2	13.58	61550296	234.710 PPB
10) o-XYLENE #2	14.11	23948899	107.237 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526001.D
Acq On : 26 May 2022 10:04
Sample : CCVH0526G-1
Misc : V2-064-25

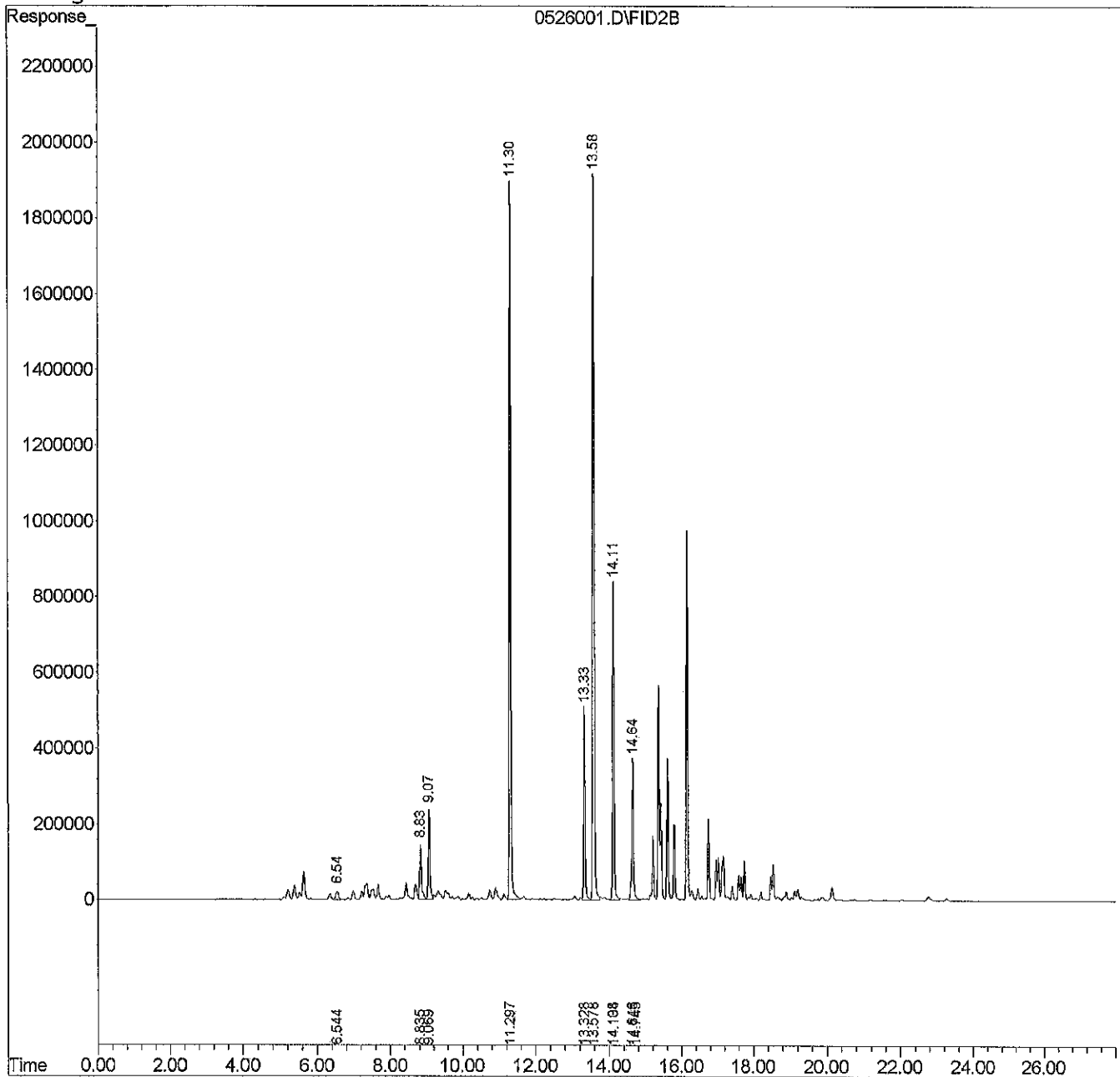
Vial: 1
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 26 10:27 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526010.D Vial: 10
 Acq On : 26 May 2022 16:37 Operator:
 Sample : CCVH0526G-2 Inst : Hope
 Misc : V2-064-25 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: May 26 16:53 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed May 11 14:34:59 2022
 Response via : Initial Calibration
 DataAcq Meth : 220510B.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22	9.05	164120	0.690 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.60	1554839	5.822 PPB
Target Compounds			
2) H Entire GAS Envelope #2 (3-	14.13	317721835	2.593 PPM
3) H GASOLINE #2 (3-29-22)	14.74	277866962	2.644 PPM
4) MTBE #2	6.55	1188602	32.354 PPB
5) BENZENE #2	8.84	5392713	21.038 PPB
7) TOLUENE #2	11.29	57744343	233.893 PPB
8) ETHYLBENZENE #2	13.32	14712731	64.555 PPB
9) m,p-XYLENE #2	13.57	62441442	238.111 PPB
10) o-XYLENE #2	14.10	24463059	109.540 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220526\0526010.D
Acq On : 26 May 2022 16:37
Sample : CCVH0526G-2
Misc : V2-064-25

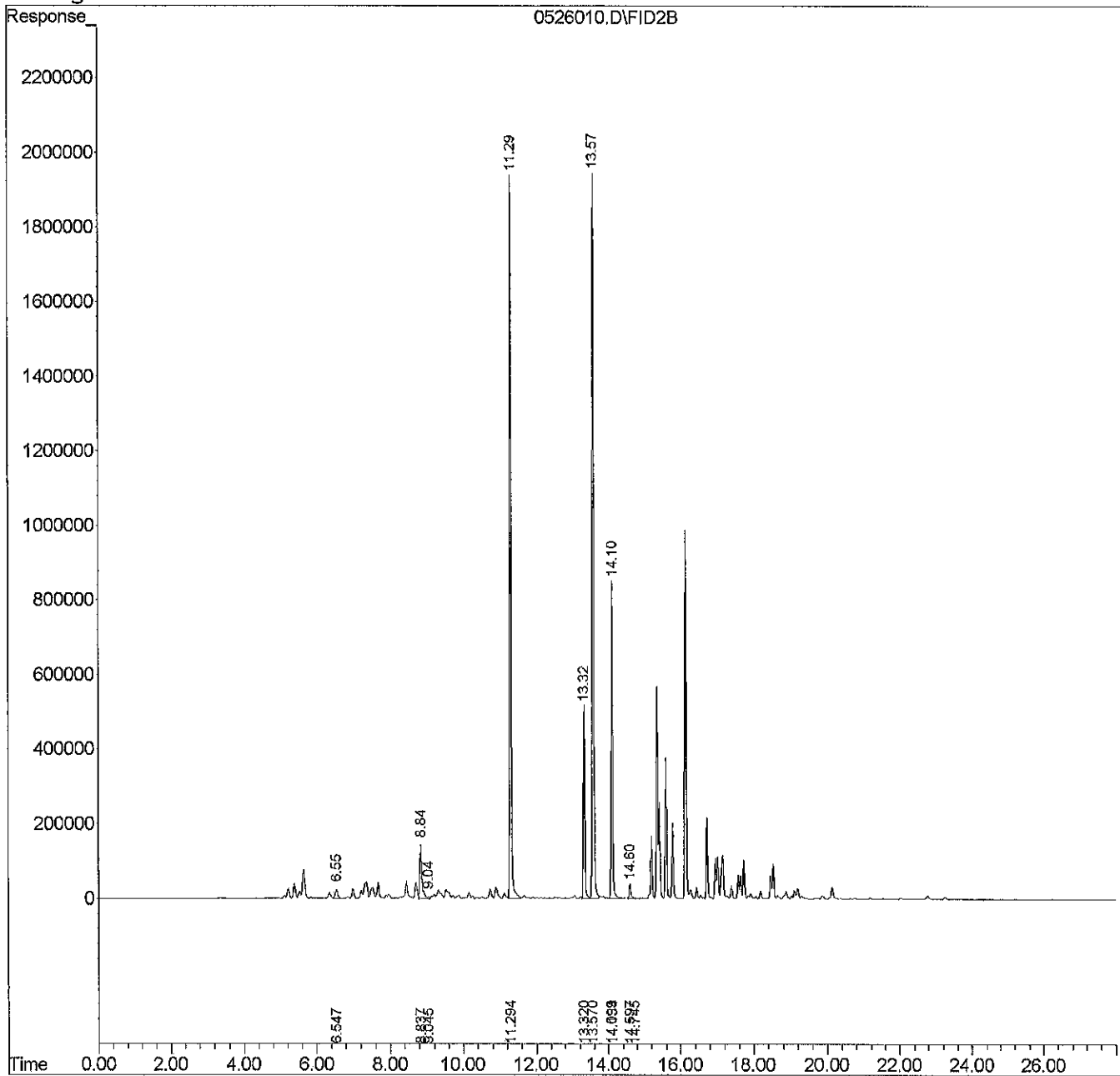
Vial: 10
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: May 26 16:53 2022 Quant Results File: 220510B.RES

Quant Method : E:\ARCHON\METHODS\220510B.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed May 11 14:34:59 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220510B.M

Volume Inj. :
Signal Phase :
Signal Info :



Diesel and Heavy Oil Range Organics
NWTPH-Dx Data

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V59.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 17:51
 Operator : LIMS import
 Sample : 05-223-01
 Misc : RearSamp
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 18:28:27 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.510	115393267	46.490 PPM
Spiked Amount	50.000	Recovery	= 92.98%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10717531	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	74848652	25.445 PPM
5) H Diesel Fuel #2 (05-1...	14.000	92635455	39.546 PPM
6) H Oil (05-19-21)	22.000	77011479	33.712 PPM
7) H Oil Acid Clean (05-21...	22.000	77011479	33.230 PPM
8) H Diesel Fuel #2 Combo ...	14.000	82676721	36.169 PPM
9) H Oil Combo (05-19-21)	22.000	64512871	26.573 PPM
10) H Oil Acid Clean Combo ...	22.000	64512871	26.680 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	91653211	39.489 PPM
12) H HAWAII 8015M Oil (05-...	22.000	55016825	21.643 PPM
13) H Mineral Oil (05-19-21)	16.000	93758688	39.464 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	92635455	34.517 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	82676721	31.789 PPM
16) H Hydraulic Oil (02-25...	14.000	129764341	53.889 PPM
17) H Hydraulic Oil ACU (04...	14.000	129764341	39.235 PPM
18) H Mineral Oil Combo (05...	16.000	75009874	33.477 PPM
19) H Oil Acid Clean MO Com...	22.000	52300858	20.724 PPM
20) H Oil MO Combo (05-19-21)	22.000	52300858	19.979 PPM
21) H JP-4 (03-24-21)	8.000	47229899	NoCal PPM
22) H JP-5 (03-25-21)	8.000	39391274	NoCal PPM
23) H JP-8 (03-26-21)	8.000	57222056	NoCal PPM

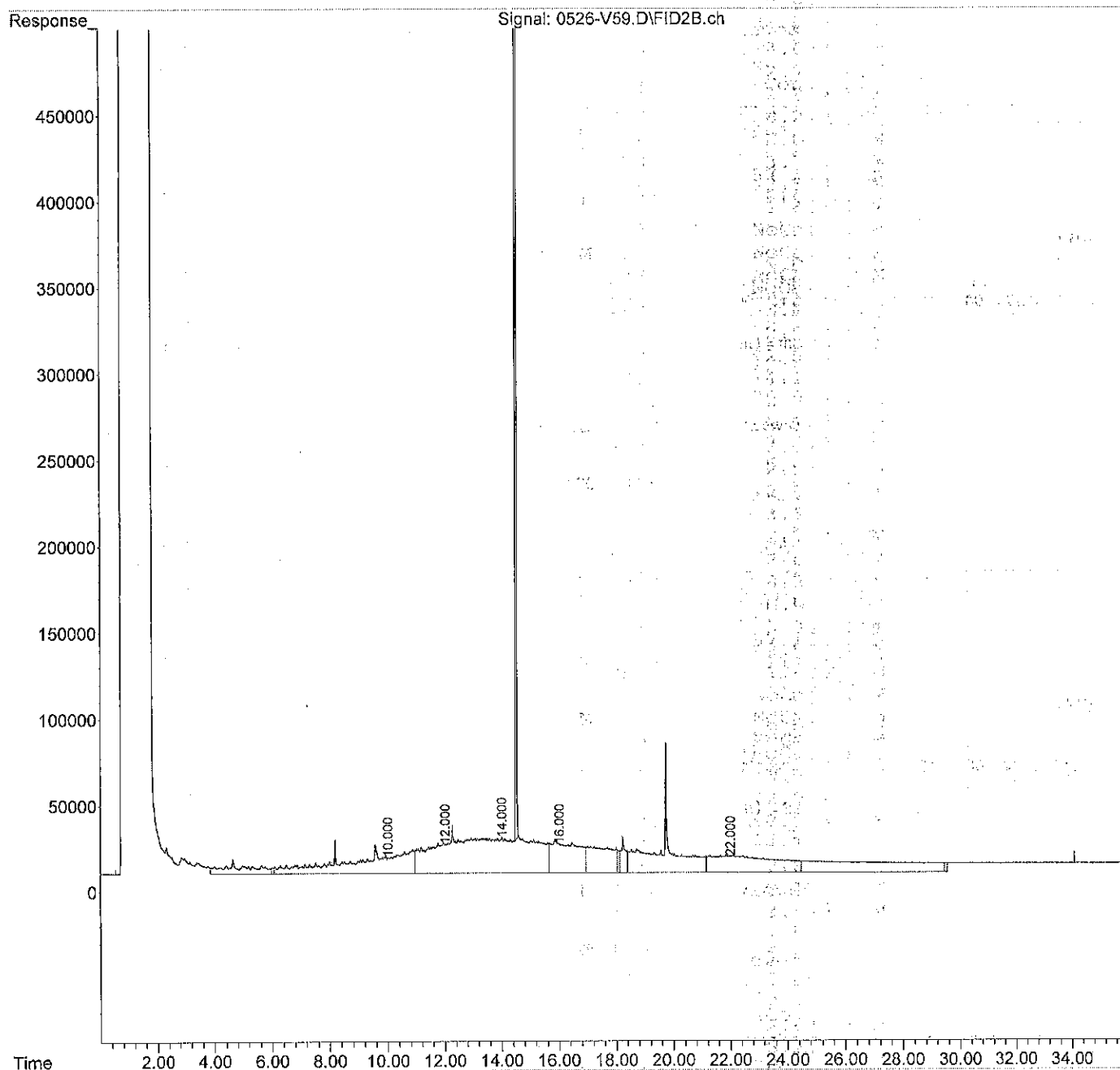
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V59.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 17:51
Operator : LIMS import
Sample : 05-223-01
Misc : RearSamp
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 18:28:27 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V11.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 19:12
 Operator : LIMS import
 Sample : 05-223-01 ACU
 Misc : Sample
 ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 19:48:26 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.576	130277166	44.682 PPM
Spiked Amount 50.000		Recovery =	89.36%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	5172460	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	10769014	4.382 PPM
5) H Diesel Fuel #2 (02-0...	14.000	8142512	5.300 PPM
6) H Oil (02-09-22)	22.000	22578898	6.179 PPM
7) H Oil Acid Clean (02-2...	22.000	22578898	4.594 PPM
8) H Diesel Fuel #2 Combo ...	14.000	7986568	5.159 PPM
9) H Oil Combo (02-09-22)	22.000	22428023	6.006 PPM
10) H Oil Acid Clean Combo ...	22.000	22428023	4.563 PPM
11) H HAWAII 8015M DF2 (02...	14.000	7947192	5.213 PPM
12) H HAWAII 8015M Oil (02...	22.000	22014734	5.921 PPM
13) H Mineral Oil (02-09-22)	16.000	3239360	3.359 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	8142512	3.890 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	7986568	3.957 PPM
16) H Hydraulic Oil	16.000	17538518	2.986 PPM
17) H Hydraulic Oil ACU (04...	16.000	17538518	5.124 PPM
18) H Mineral Oil Combo (02...	16.000	2464022	2.854 PPM
19) H Oil Acid Clean MO Com...	22.000	22302320	4.523 PPM
20) H Oil MO Combo (02-09-22)	22.000	22302320	5.954 PPM

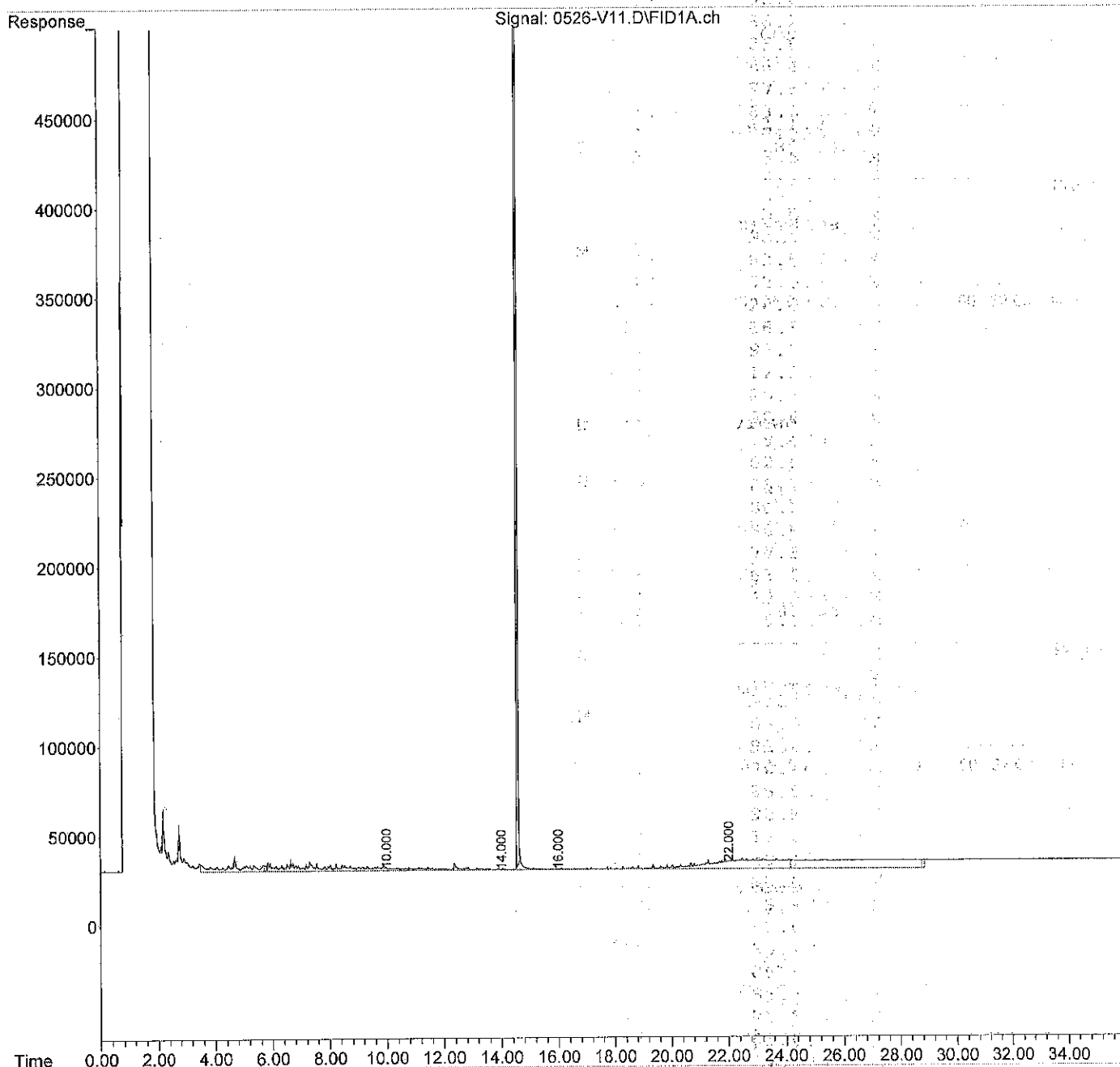
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V11.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 19:12
Operator : LIMS import
Sample : 05-223-01 ACU
Misc : Sample
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 19:48:26 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V60.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 18:32
 Operator : LIMS import
 Sample : 05-223-02
 Misc : RearSamp
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 19:08:45 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.510	113238616	45.627 PPM
Spiked Amount 50.000		Recovery =	91.25%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	9585528	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	161159216	65.955 PPM
5) H Diesel Fuel #2 (05-1...	14.000	195968617	88.611 PPM
6) H Oil (05-19-21)	22.000	115548644	58.260 PPM
7) H Oil Acid Clean (05-21...	22.000	115548644	56.157 PPM
8) H Diesel Fuel #2 Combo ...	14.000	179296965	83.336 PPM
9) H Oil Combo (05-19-21)	22.000	93509399	45.328 PPM
10) H Oil Acid Clean Combo ...	22.000	93509399	44.190 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	194450342	88.687 PPM
12) H HAWAII 8015M Oil (05-...	22.000	77769112	36.866 PPM
13) H Mineral Oil (05-19-21)	16.000	180357520	77.360 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	195968617	77.139 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	179296965	72.825 PPM
16) H Hydraulic Oil (02-25...	14.000	251603811	108.443 PPM
17) H Hydraulic Oil ACU (04...	14.000	251603811	88.960 PPM
18) H Mineral Oil Combo (05...	16.000	151361209	67.732 PPM
19) H Oil Acid Clean MO Com...	22.000	73344895	34.006 PPM
20) H Oil MO Combo (05-19-21)	22.000	73344895	34.204 PPM
21) H JP-4 (03-24-21)	8.000	93113387	NoCal PPM
22) H JP-5 (03-25-21)	8.000	86703746	NoCal PPM
23) H JP-8 (03-26-21)	8.000	126988671	NoCal PPM

✓ m

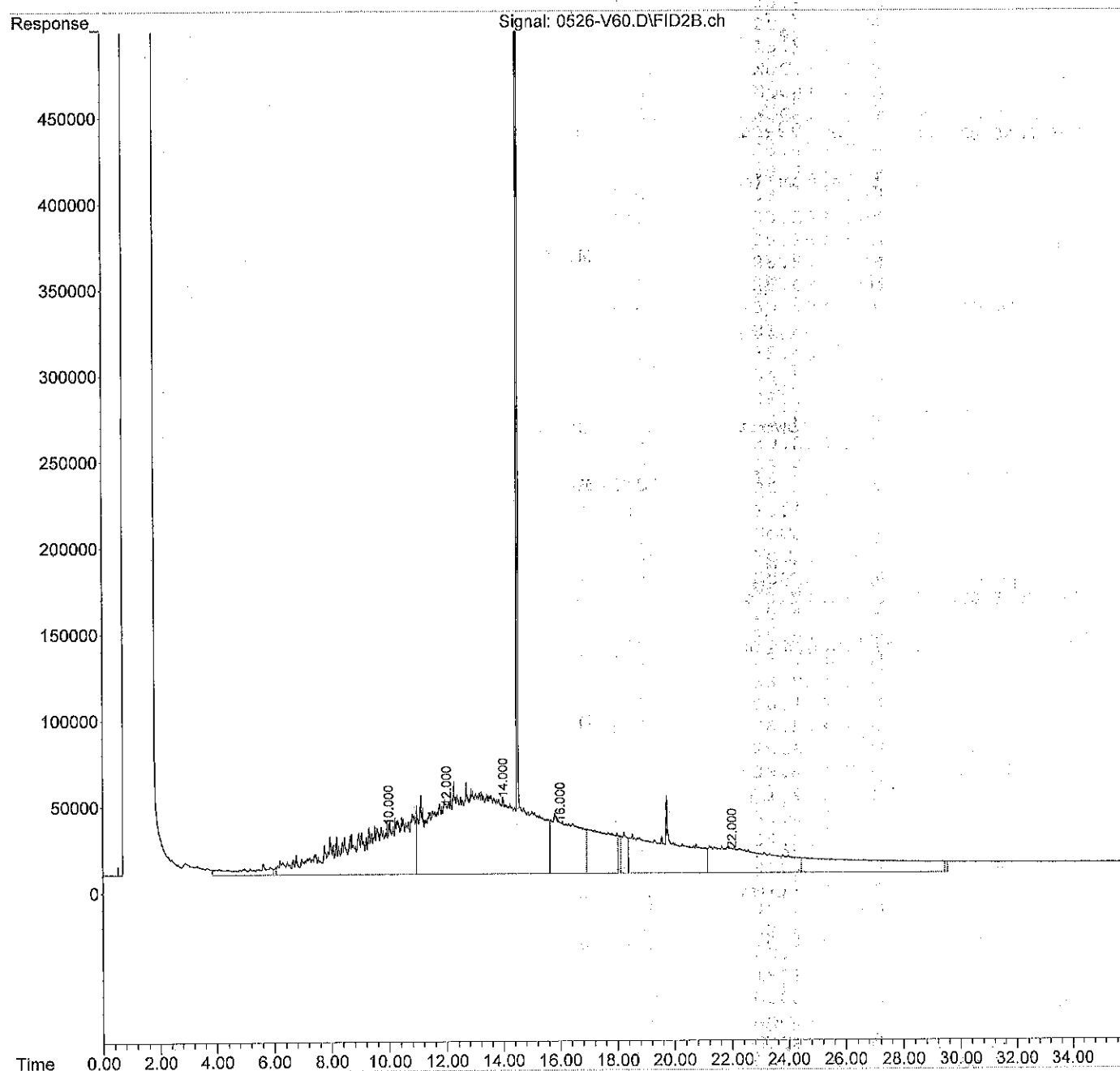
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V60.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 18:32
Operator : LIMS import
Sample : 05-223-02
Misc : RearSamp
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 19:08:45 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V14.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 21:13
 Operator : LIMS import
 Sample : 05-223-02 ACU
 Misc : Sample
 ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 21:49:14 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.575	130628531	44.802 PPM
Spiked Amount	50.000	Recovery =	89.60%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	3305261	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	13576014	5.550 PPM
5) H Diesel Fuel #2 (02-0...	14.000	14768115	8.128 PPM
6) H Oil (02-09-22)	22.000	33220766	12.352 PPM
7) H Oil Acid Clean (02-2...	22.000	33220766	10.098 PPM
8) H Diesel Fuel #2 Combo ...	14.000	13471483	7.567 PPM
9) H Oil Combo (02-09-22)	22.000	31957750	11.617 PPM
10) H Oil Acid Clean Combo ...	22.000	31957750	9.566 PPM
11) H HAWAII 8015M DF2 (02...	14.000	14545007	8.058 PPM
12) H HAWAII 8015M Oil (02...	22.000	30494263	11.094 PPM
13) H Mineral Oil (02-09-22)	16.000	11133901	6.540 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	14768115	6.575 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	13471483	6.243 PPM
16) H Hydraulic Oil	16.000	31451529	8.589 PPM
17) H Hydraulic Oil ACU (04...	16.000	31451529	9.984 PPM
18) H Mineral Oil Combo (02...	16.000	7654760	5.025 PPM
19) H Oil Acid Clean MO Com...	22.000	30869916	9.145 PPM
20) H Oil MO Combo (02-09-22)	22.000	30869916	11.141 PPM

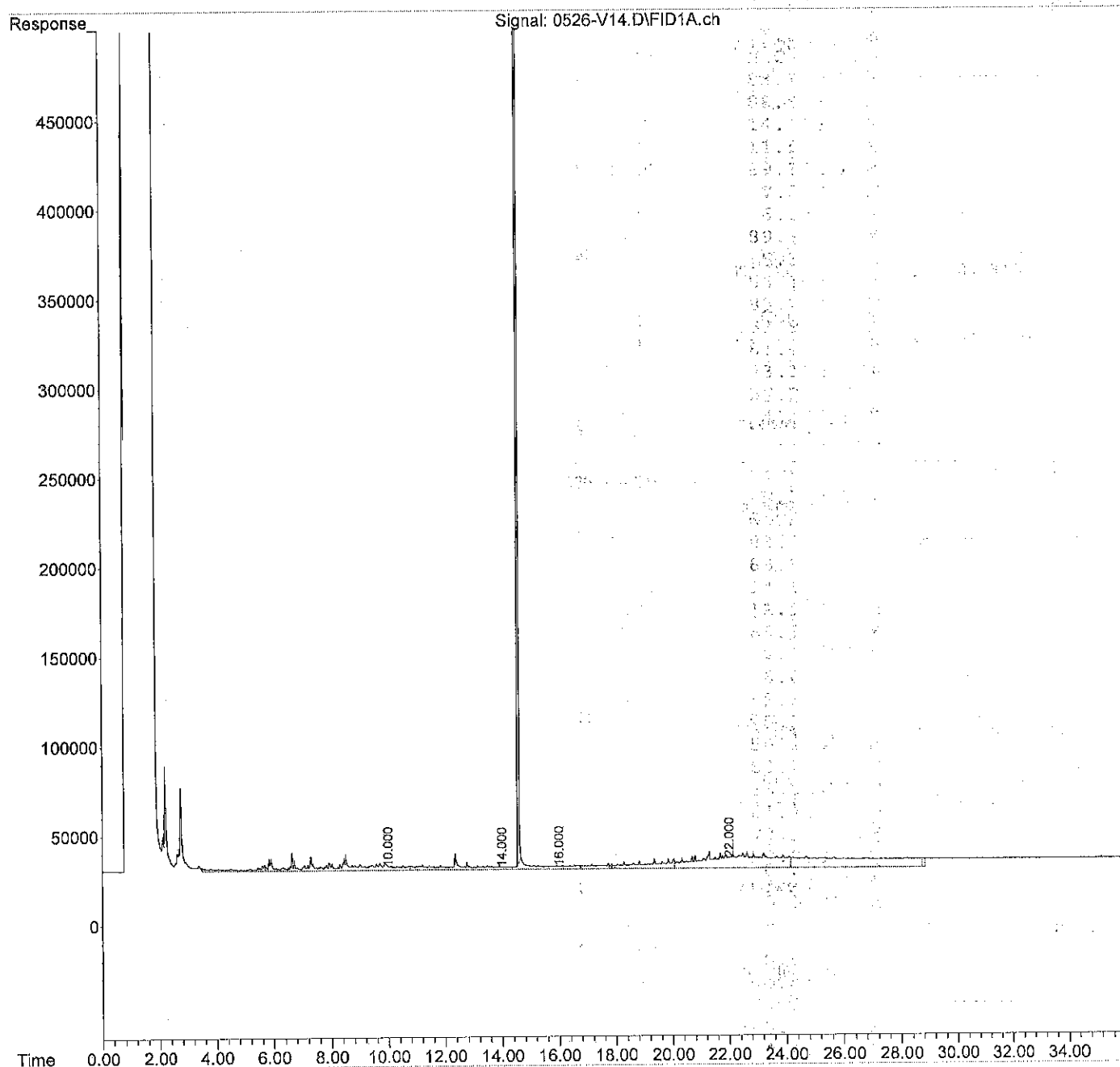
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V14.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 21:13
Operator : LIMS import
Sample : 05-223-02 ACU
Misc : Sample
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 21:49:14 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V61.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 19:12
 Operator : LIMS import
 Sample : 05-223-03
 Misc : RearSamp
 ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 19:49:05 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.509	108921053	43.899 PPM
Spiked Amount	50.000	Recovery =	87.80%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10125978	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	96038133	35.390 PPM
5) H Diesel Fuel #2 (05-1...	14.000	119146382	52.134 PPM
6) H Oil (05-19-21)	22.000	97203895	46.574 PPM
7) H Oil Acid Clean (05-21...	22.000	97203895	45.243 PPM
8) H Diesel Fuel #2 Combo ...	14.000	106646936	47.870 PPM
9) H Oil Combo (05-19-21)	22.000	82051528	37.917 PPM
10) H Oil Acid Clean Combo ...	22.000	82051528	37.271 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	117912877	52.057 PPM
12) H HAWAII 8015M Oil (05-...	22.000	70205241	31.805 PPM
13) H Mineral Oil (05-19-21)	16.000	116573442	49.448 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	119146382	45.452 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	106646936	41.970 PPM
16) H Hydraulic Oil (02-25...	14.000	168623912	71.289 PPM
17) H Hydraulic Oil ACU (04...	14.000	168623912	55.095 PPM
18) H Mineral Oil Combo (05...	16.000	91107154	40.699 PPM
19) H Oil Acid Clean MO Com...	22.000	66744836	29.840 PPM
20) H Oil MO Combo (05-19-21)	22.000	66744836	29.742 PPM
21) H JP-4 (03-24-21)	8.000	61287400	NoCal PPM
22) H JP-5 (03-25-21)	8.000	54575370	NoCal PPM
23) H JP-8 (03-26-21)	8.000	75939617	NoCal PPM

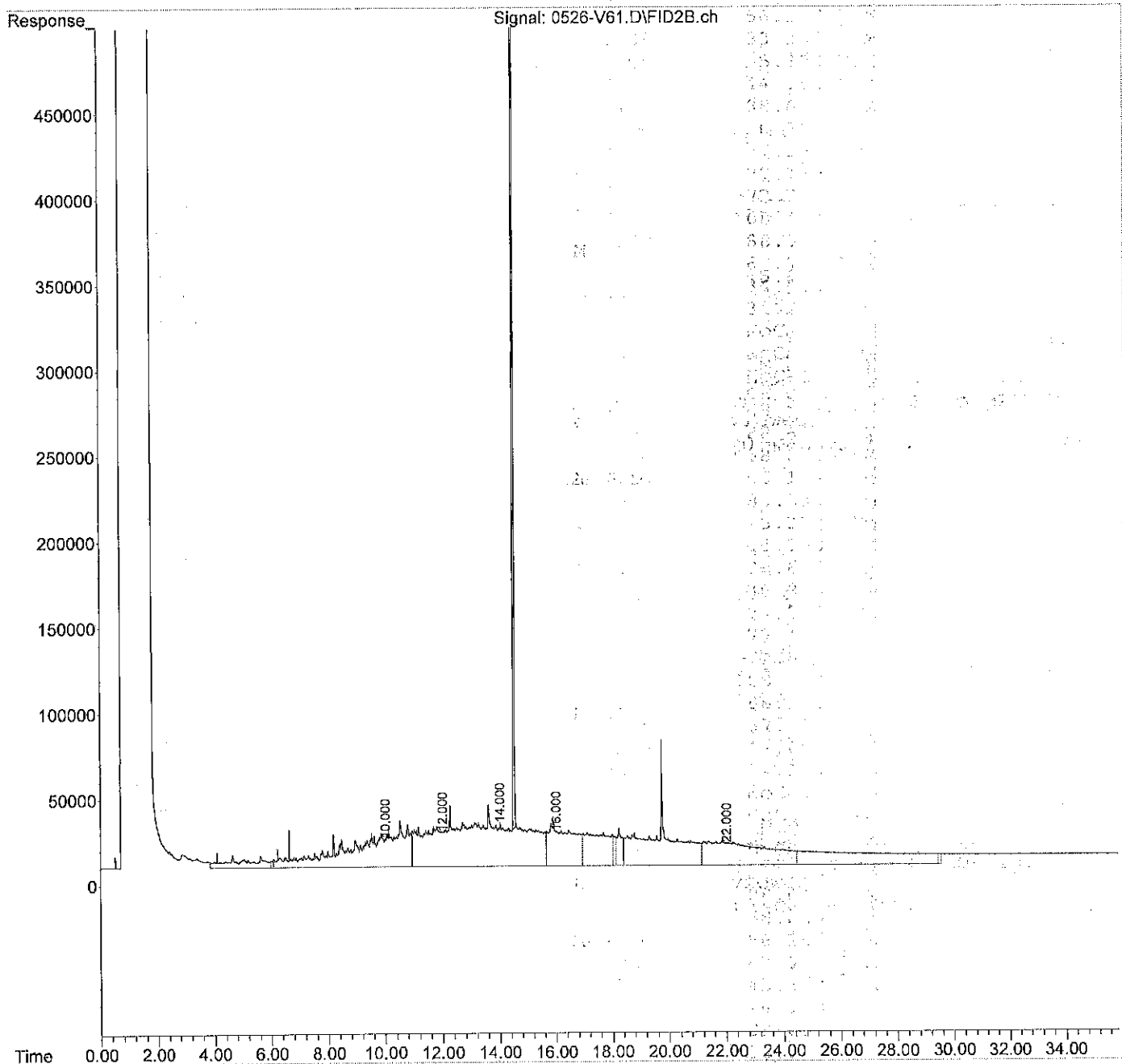
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V61.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 19:12
Operator : LIMS import
Sample : 05-223-03
Misc : RearSamp
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 19:49:05 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V15.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 21:53
 Operator : LIMS import
 Sample : 05-223-03 ACU
 Misc : Sample
 ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 22:29:29 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.575	127984511	43.898 PPM
Spiked Amount 50.000		Recovery =	87.80%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	4506497	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	29809418	12.306 PPM
5) H Diesel Fuel #2 (02-0...	14.000	31110694	15.104 PPM
6) H Oil (02-09-22)	22.000	31559688	11.388 PPM
7) H Oil Acid Clean (02-2...	22.000	31559688	9.239 PPM
8) H Diesel Fuel #2 Combo ...	14.000	29262691	14.500 PPM
9) H Oil Combo (02-09-22)	22.000	29527389	10.186 PPM
10) H Oil Acid Clean Combo ...	22.000	29527389	8.290 PPM
11) H HAWAII 8015M DF2 (02...	14.000	30481874	14.931 PPM
12) H HAWAII 8015M Oil (02...	22.000	27816838	9.461 PPM
13) H Mineral Oil (02-09-22)	16.000	20586744	10.349 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	31110694	13.197 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	29262691	12.827 PPM
16) H Hydraulic Oil	16.000	44989827	14.040 PPM
17) H Hydraulic Oil ACU (04...	16.000	44989827	14.714 PPM
18) H Mineral Oil Combo (02...	16.000	17169710	9.004 PPM
19) H Oil Acid Clean MO Com...	22.000	28201079	9.705 PPM
20) H Oil MO Combo (02-09-22)	22.000	28201079	9.525 PPM

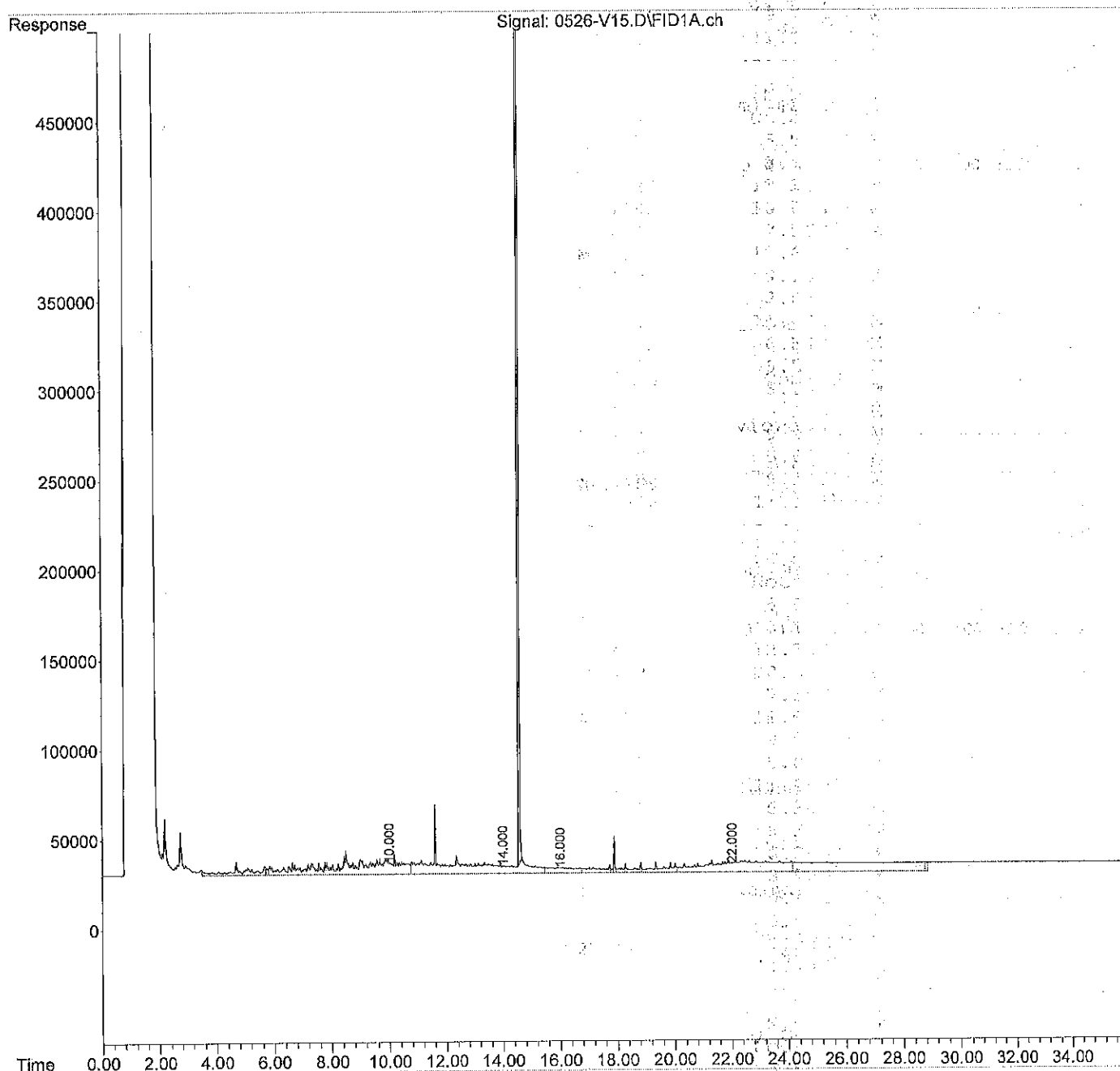
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V15.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 21:53
Operator : LIMS import
Sample : 05-223-03 ACU
Misc : Sample
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 22:29:29 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V64.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 21:13
 Operator : LIMS import
 Sample : 05-223-04
 Misc : RearSamp
 ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 21:49:52 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.509	112613029	45.377 PPM
Spiked Amount	50.000	Recovery =	90.75%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17939610	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	519343783	234.071 PPM
5) H Diesel Fuel #2 (05-1...	14.000	616309414	288.202 PPM
6) H Oil (05-19-21)	22.000	246383587	141.601 PPM
7) H Oil Acid Clean (05-21...	22.000	246383587	133.997 PPM
8) H Diesel Fuel #2 Combo ...	14.000	570350455	274.239 PPM
9) H Oil Combo (05-19-21)	22.000	187254702	105.962 PPM
10) H Oil Acid Clean Combo ...	22.000	187254702	100.798 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	612354212	288.695 PPM
12) H HAWAII 8015M Oil (05-...	22.000	144359951	81.421 PPM
13) H Mineral Oil (05-19-21)	16.000	522706826	227.173 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	616309414	250.519 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	570350455	238.912 PPM
16) H Hydraulic Oil (02-25...	14.000	729766916	322.540 PPM
17) H Hydraulic Oil ACU (04...	14.000	729766916	284.107 PPM
18) H Mineral Oil Combo (05...	16.000	456273308	204.534 PPM
19) H Oil Acid Clean MO Com...	22.000	131941136	70.988 PPM
20) H Oil MO Combo (05-19-21)	22.000	131941136	73.812 PPM
21) H JP-4 (03-24-21)	8.000	314344165	NoCal PPM
22) H JP-5 (03-25-21)	8.000	306958165	NoCal PPM
23) H JP-8 (03-26-21)	8.000	428561411	NoCal PPM

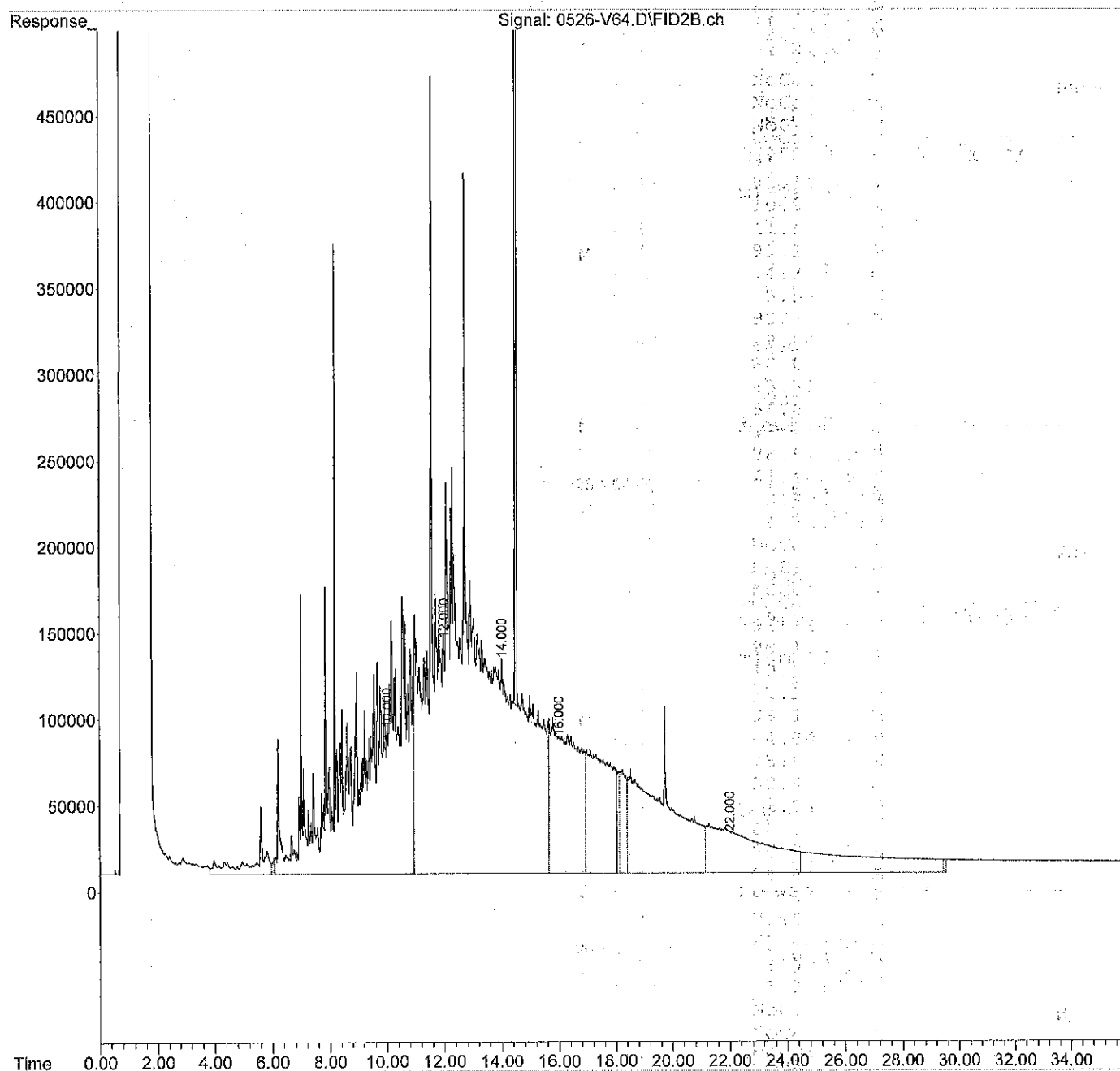
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V64.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 21:13
Operator : LIMS import
Sample : 05-223-04
Misc : RearSamp
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 21:49:52 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V16.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 22:34
 Operator : LIMS import
 Sample : 05-223-04 ACU
 Misc : Sample
 ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 23:10:14 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.577	144448316	49.528 PPM
Spiked Amount	50.000	Recovery	= 99.06%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6147426	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	55015294	22.795 PPM
5) H Diesel Fuel #2 (02-0...	14.000	52349680	24.170 PPM
6) H Oil (02-09-22)	22.000	23866861	6.926 PPM
7) H Oil Acid Clean (02-2...	22.000	23866861	5.260 PPM
8) H Diesel Fuel #2 Combo ...	14.000	51956746	24.463 PPM
9) H Oil Combo (02-09-22)	22.000	23374445	6.563 PPM
10) H Oil Acid Clean Combo ...	22.000	23374445	5.060 PPM
11) H HAWAII 8015M DF2 (02...	14.000	52052131	24.233 PPM
12) H HAWAII 8015M Oil (02...	22.000	22751929	6.371 PPM
13) H Mineral Oil (02-09-22)	16.000	11311328	6.612 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	52349680	21.802 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	51956746	22.288 PPM
16) H Hydraulic Oil	16.000	62736955	21.187 PPM
17) H Hydraulic Oil ACU (04...	16.000	62736955	20.914 PPM
18) H Mineral Oil Combo (02...	16.000	10074276	6.037 PPM
19) H Oil Acid Clean MO Com...	22.000	23037274	4.920 PPM
20) H Oil MO Combo (02-09-22)	22.000	23037274	6.399 PPM

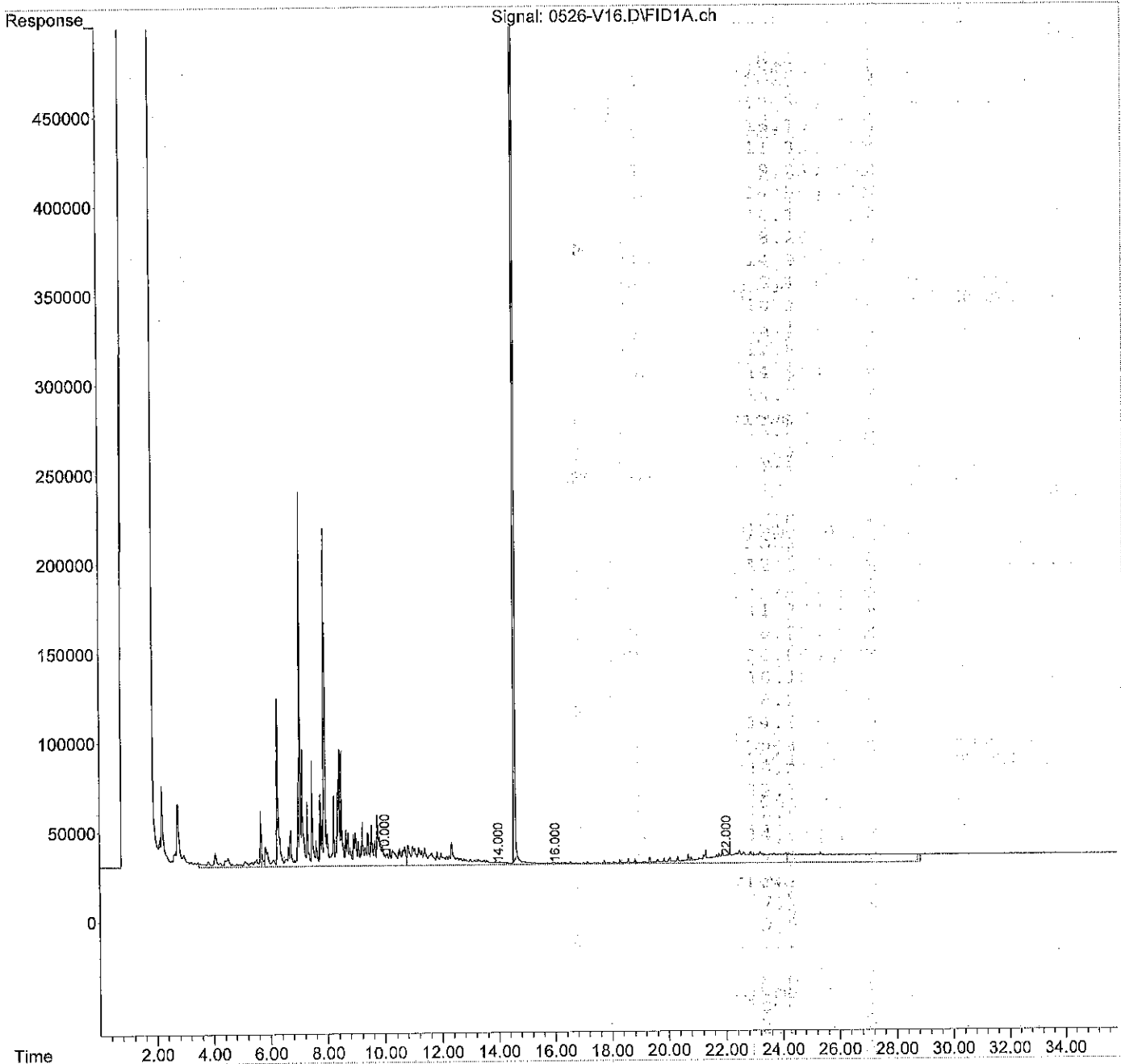
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V16.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 22:34
Operator : LIMS import
Sample : 05-223-04 ACU
Misc : Sample
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 23:10:14 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V65.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 21:53
 Operator : LIMS import
 Sample : 05-223-05
 Misc : RearSamp
 ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 22:30:07 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.507	101559301	40.953 PPM
Spiked Amount	50.000	Recovery	= 81.91%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	35028694	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	264259514	114.346 PPM
5) H Diesel Fuel #2 (05-1...	14.000	325634161	150.180 PPM
6) H Oil (05-19-21)	22.000	183730856	101.692 PPM
7) H Oil Acid Clean (05-21...	22.000	183730856	96.722 PPM
8) H Diesel Fuel #2 Combo ...	14.000	292985068	138.836 PPM
9) H Oil Combo (05-19-21)	22.000	139366198	74.988 PPM
10) H Oil Acid Clean Combo ...	22.000	139366198	71.881 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	322599192	150.019 PPM
12) H HAWAII 8015M Oil (05-...	22.000	108722552	57.577 PPM
13) H Mineral Oil (05-19-21)	16.000	292617682	126.485 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	325634161	130.623 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	292985068	121.110 PPM
16) H Hydraulic Oil (02-25...	14.000	407206050	178.114 PPM
17) H Hydraulic Oil ACU (04...	14.000	407206050	152.464 PPM
18) H Mineral Oil Combo (05...	16.000	246328107	110.340 PPM
19) H Oil Acid Clean MO Com...	22.000	100220896	50.968 PPM
20) H Oil MO Combo (05-19-21)	22.000	100220896	52.370 PPM
21) H JP-4 (03-24-21)	8.000	169164998	NoCal PPM
22) H JP-5 (03-25-21)	8.000	145294032	NoCal PPM
23) H JP-8 (03-26-21)	8.000	202107780	NoCal PPM

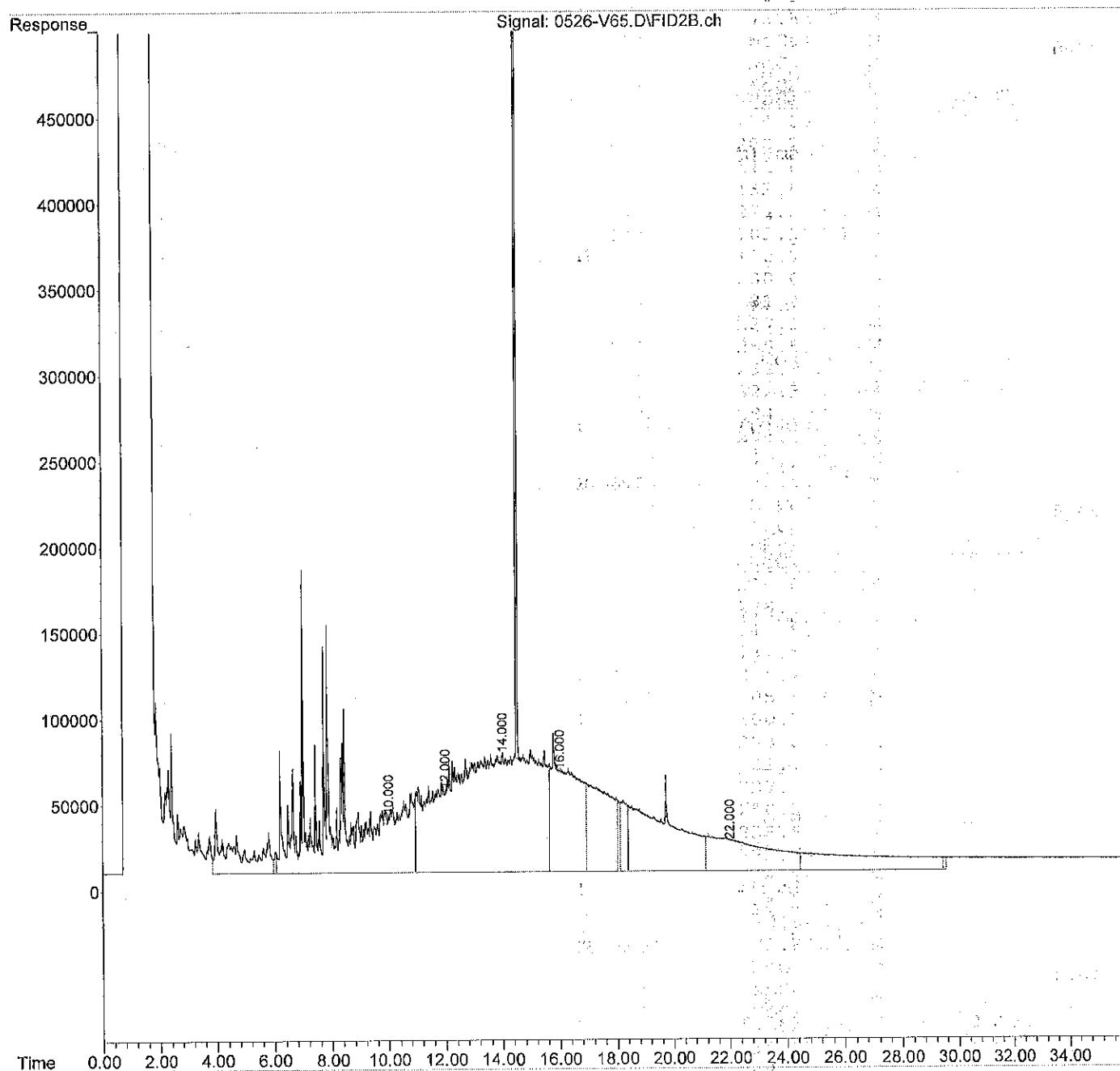
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V65.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 21:53
Operator : LIMS import
Sample : 05-223-05
Misc : RearSamp
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 22:30:07 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V17.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 23:14
 Operator : LIMS import
 Sample : 05-223-05 ACU
 Misc : Sample
 ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 23:50:35 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.575	129720453	44.492 PPM
Spiked Amount	50.000	Recovery	= 88.98%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	20762149	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	77363165	32.096 PPM
5) H Diesel Fuel #2 (02-0...	14.000	67193913	30.507 PPM
6) H Oil (02-09-22)	22.000	23812113	6.894 PPM
7) H Oil Acid Clean (02-2...	22.000	23812113	5.232 PPM
8) H Diesel Fuel #2 Combo ...	14.000	66271475	30.748 PPM
9) H Oil Combo (02-09-22)	22.000	22269731	5.912 PPM
10) H Oil Acid Clean Combo ...	22.000	22269731	4.480 PPM
11) H HAWAII 8015M DF2 (02...	14.000	66556684	30.488 PPM
12) H HAWAII 8015M Oil (02...	22.000	21178802	5.411 PPM
13) H Mineral Oil (02-09-22)	16.000	16584427	8.736 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	67193913	27.817 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	66271475	28.255 PPM
16) H Hydraulic Oil	16.000	76263826	26.635 PPM
17) H Hydraulic Oil ACU (04...	16.000	76263826	25.639 PPM
18) H Mineral Oil Combo (02...	16.000	15062903	8.123 PPM
19) H Oil Acid Clean MO Com...	22.000	21488234	4.084 PPM
20) H Oil MO Combo (02-09-22)	22.000	21488234	5.462 PPM

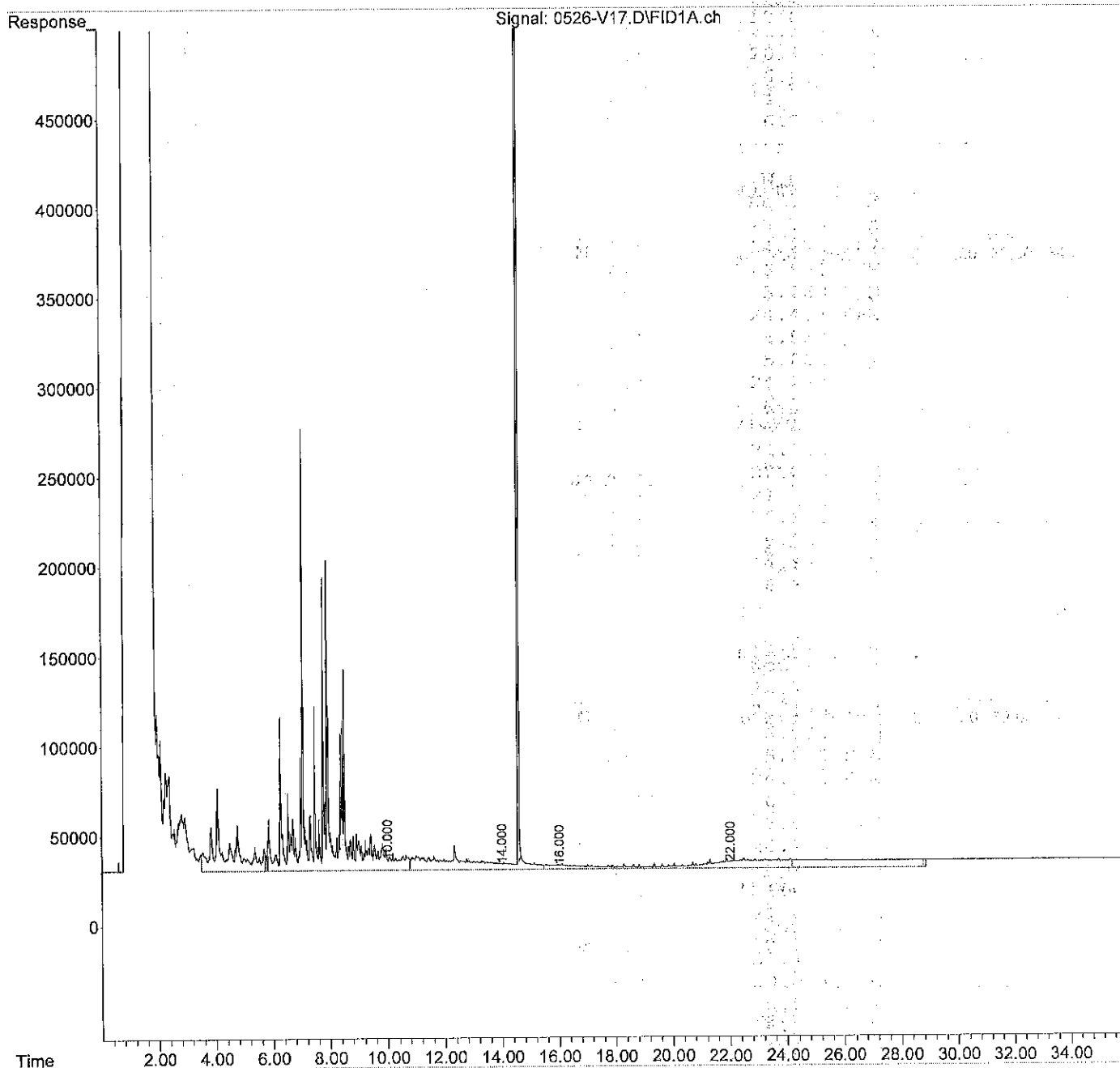
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V17.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 23:14
Operator : LIMS import
Sample : 05-223-05 ACU
Misc : Sample
ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 23:50:35 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V66.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 22:34
 Operator : LIMS import
 Sample : 05-223-06
 Misc : RearSamp
 ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 23:10:53 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.508	106393719	42.888 PPM
Spiked Amount 50.000		Recovery =	85.78%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	9003595	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	71121161	23.696 PPM
5) H Diesel Fuel #2 (05-1...	14.000	106250713	46.011 PPM
6) H Oil (05-19-21)	22.000	117364967	59.417 PPM
7) H Oil Acid Clean (05-21...	22.000	117364967	57.238 PPM
8) H Diesel Fuel #2 Combo ...	14.000	88691466	39.105 PPM
9) H Oil Combo (05-19-21)	22.000	96324669	47.149 PPM
10) H Oil Acid Clean Combo ...	22.000	96324669	45.890 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	104742894	45.754 PPM
12) H HAWAII 8015M Oil (05-...	22.000	79754649	38.195 PPM
13) H Mineral Oil (05-19-21)	16.000	126994889	54.008 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	106250713	40.133 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	88691466	34.344 PPM
16) H Hydraulic Oil (02-25...	14.000	163331754	68.919 PPM
17) H Hydraulic Oil ACU (04...	14.000	163331754	52.935 PPM
18) H Mineral Oil Combo (05...	16.000	96286444	43.023 PPM
19) H Oil Acid Clean MO Com...	22.000	75026531	35.067 PPM
20) H Oil MO Combo (05-19-21)	22.000	75026531	35.340 PPM
21) H JP-4 (03-24-21)	8.000	35949674	NoCal PPM
22) H JP-5 (03-25-21)	8.000	28598026	NoCal PPM
23) H JP-8 (03-26-21)	8.000	46632393	NoCal PPM

(f) = RT Delta > 1/2 Window

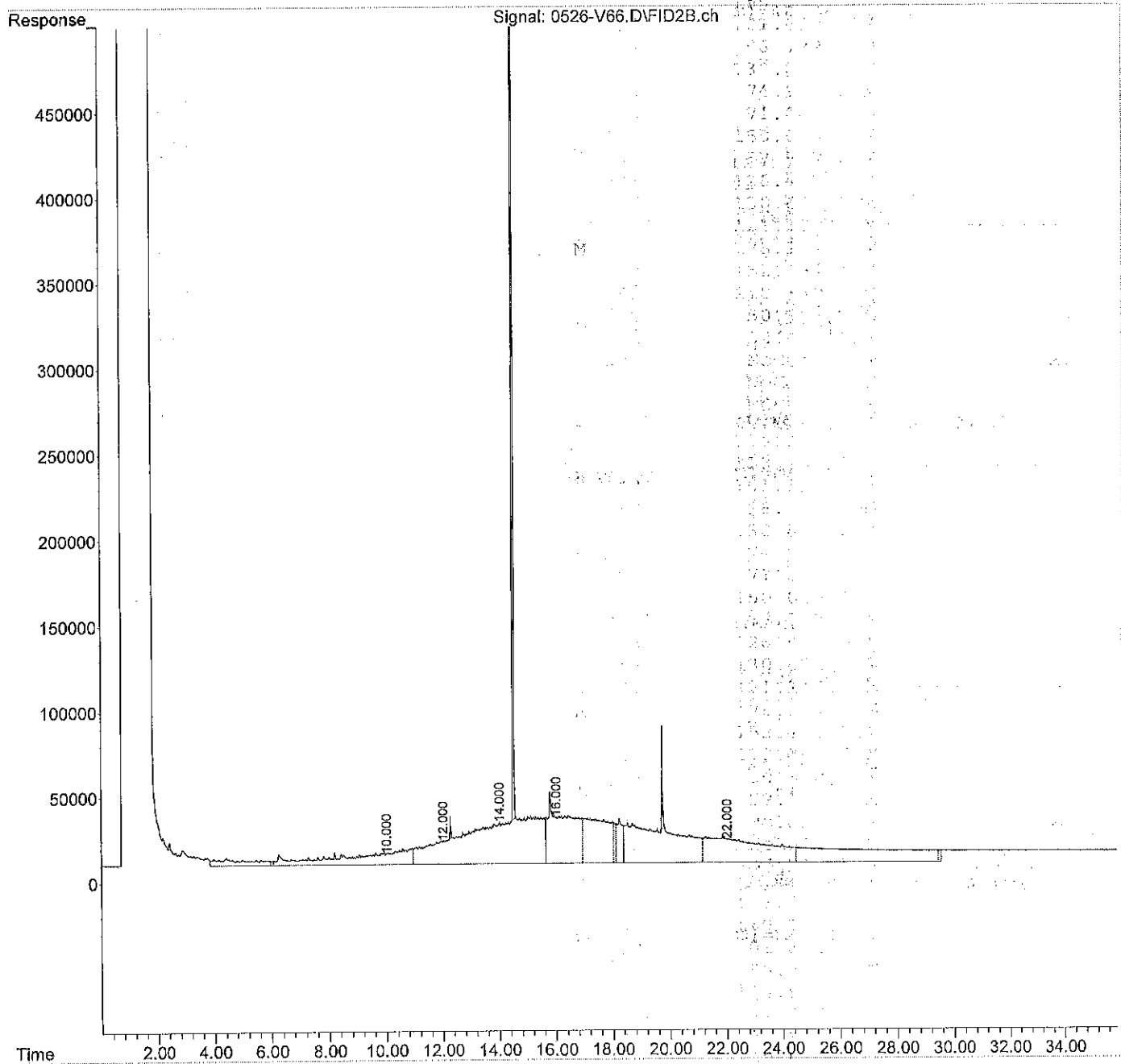
(m) = manual int.

Sm

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V66.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 22:34
Operator : LIMS import
Sample : 05-223-06
Misc : RearSamp
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 23:10:53 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V18.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 23:54
 Operator : LIMS import
 Sample : 05-223-06 ACU
 Misc : Sample
 ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 00:30:49 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.575	124742592	42.790 PPM
Spiked Amount	50.000	Recovery =	85.58%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	4033489	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	6903941	2.774 PPM
5) H Diesel Fuel #2 (02-0...	14.000	5440852	4.147 PPM
6) H Oil (02-09-22)	22.000	20100637	4.742 PPM
7) H Oil Acid Clean (02-2...	22.000	20100637	3.312 PPM
8) H Diesel Fuel #2 Combo ...	14.000	5326825	3.991 PPM
9) H Oil Combo (02-09-22)	22.000	19961454	4.553 PPM
10) H Oil Acid Clean Combo ...	22.000	19961454	3.268 PPM
11) H HAWAII 8015M DF2 (02...	14.000	5330061	4.084 PPM
12) H HAWAII 8015M Oil (02...	22.000	19614417	4.456 PPM
13) H Mineral Oil (02-09-22)	16.000	2311094	2.985 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	5440852	2.796 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	5326825	2.848 PPM
16) H Hydraulic Oil	16.000	13916951	1.527 PPM
17) H Hydraulic Oil ACU (04...	16.000	13916951	3.858 PPM
18) H Mineral Oil Combo (02...	16.000	1735374	2.549 PPM
19) H Oil Acid Clean MO Com...	22.000	19862912	3.208 PPM
20) H Oil MO Combo (02-09-22)	22.000	19862912	4.478 PPM

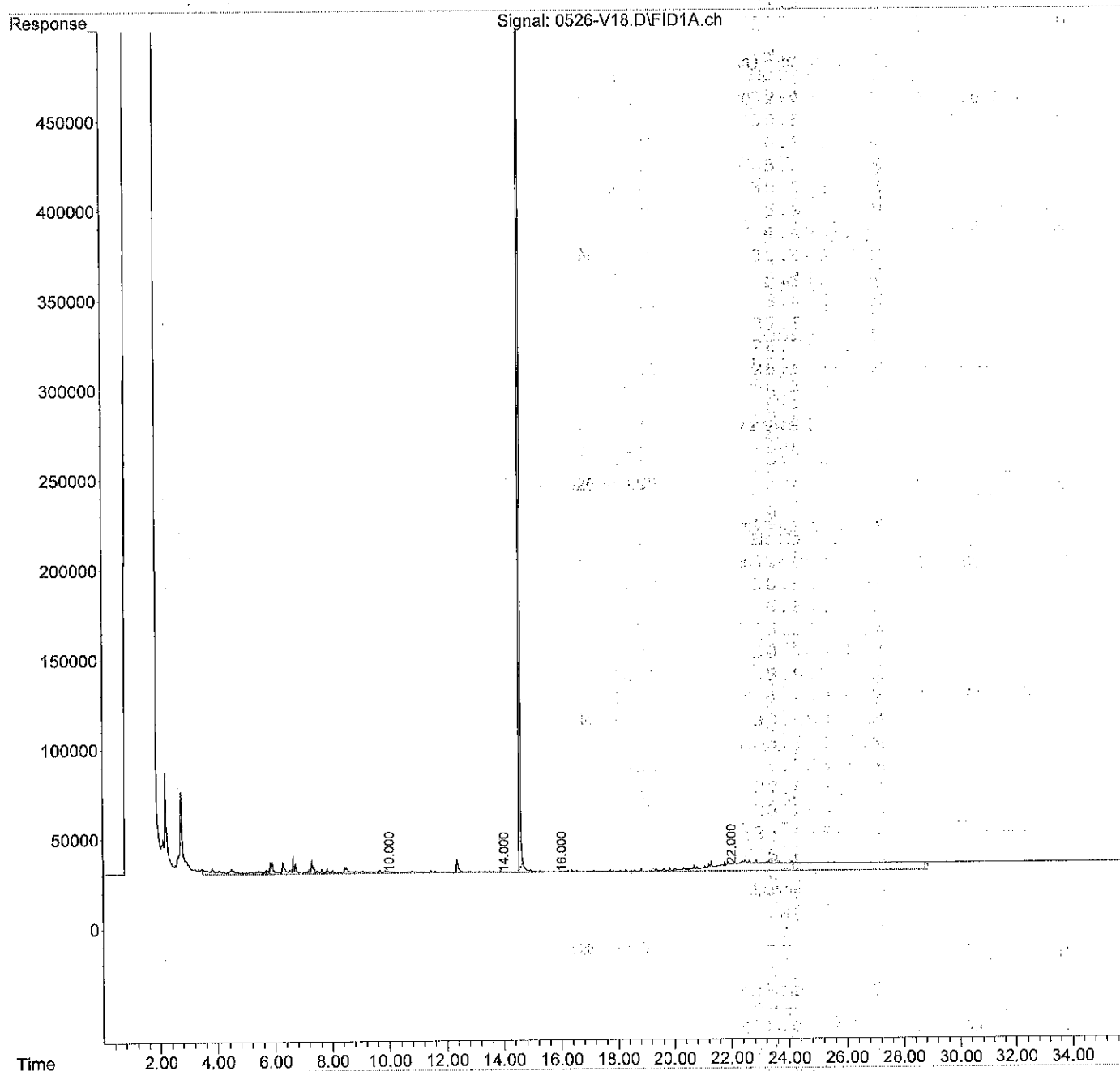
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V18.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 23:54
Operator : LIMS import
Sample : 05-223-06 ACU
Misc : Sample
ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 00:30:49 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V67.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 23:14
 Operator : LIMS import
 Sample : 05-223-07
 Misc : RearSamp
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 23:51:13 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.509	112679535	45.404 PPM
Spiked Amount 50.000		Recovery =	90.81%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6382205	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	21947772	0.616 PPM
5) H Diesel Fuel #2 (05-1...	14.000	30208624	9.903 PPM
6) H Oil (05-19-21)	22.000	56792878	20.833 PPM
7) H Oil Acid Clean (05-21...	22.000	56792878	21.201 PPM
8) H Diesel Fuel #2 Combo ...	14.000	24939166	7.982 PPM
9) H Oil Combo (05-19-21)	22.000	51440445	18.118 PPM
10) H Oil Acid Clean Combo ...	22.000	51440445	18.786 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	29673298	9.825 PPM
12) H HAWAII 8015M Oil (05...	22.000	46272240	15.792 PPM
13) H Mineral Oil (05-19-21)	16.000	37056448	14.651 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	30208624	8.767 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	24939166	7.267 PPM
16) H Hydraulic Oil (02-25...	14.000	58366136	21.921 PPM
17) H Hydraulic Oil ACU (04...	14.000	58366136	10.097 PPM
18) H Mineral Oil Combo (05...	16.000	24519061	10.824 PPM
19) H Oil Acid Clean MO Com...	22.000	44897099	16.051 PPM
20) H Oil MO Combo (05-19-21)	22.000	44897099	14.975 PPM
21) H JP-4 (03-24-21)	8.000	18388347	NoCal PPM
22) H JP-5 (03-25-21)	8.000	12531261	NoCal PPM
23) H JP-8 (03-26-21)	8.000	16308229	NoCal PPM

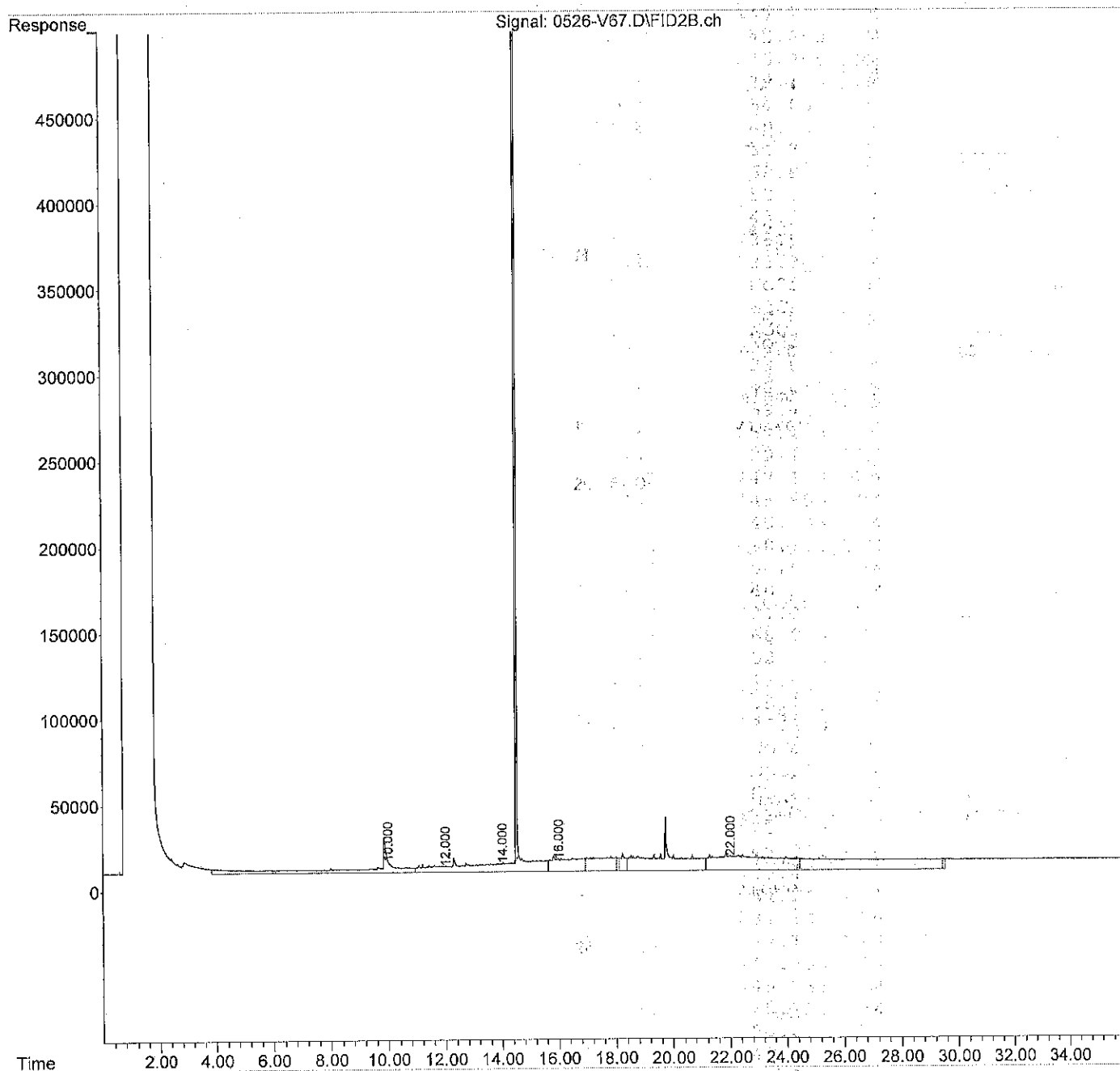
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V67.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 23:14
Operator : LIMS import
Sample : 05-223-07
Misc : RearSamp
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 23:51:13 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V19.D
 Signal(s) : FID1A.ch
 Acq On : 27 May 2022 00:35
 Operator : LIMS import
 Sample : 05-223-07 ACU
 Misc : Sample
 ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 01:11:02 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.576	134788448	46.225 PPM
Spiked Amount	50.000	Recovery	= 92.45%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	1912734	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	2342577	0.875 PPM
5) H Diesel Fuel #2 (02-0...	14.000	2005505	2.680 PPM
6) H Oil (02-09-22)	22.000	20216125	4.809 PPM
7) H Oil Acid Clean (02-2...	22.000	20216125	3.372 PPM
8) H Diesel Fuel #2 Combo ...	14.000	1899590	2.487 PPM
9) H Oil Combo (02-09-22)	22.000	20050703	4.606 PPM
10) H Oil Acid Clean Combo ...	22.000	20050703	3.315 PPM
11) H HAWAII 8015M DF2 (02...	14.000	1889317	2.601 PPM
12) H HAWAII 8015M Oil (02...	22.000	19724252	4.523 PPM
13) H Mineral Oil (02-09-22)	16.000	1851679	2.800 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	2005505	1.404 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	1899590	1.419 PPM
16) H Hydraulic Oil	16.000	10686092	0.226 PPM
17) H Hydraulic Oil ACU (04...	16.000	10686092	2.730 PPM
18) H Mineral Oil Combo (02...	16.000	1105031	2.286 PPM
19) H Oil Acid Clean MO Com...	22.000	19985957	3.274 PPM
20) H Oil MO Combo (02-09-22)	22.000	19985957	4.552 PPM

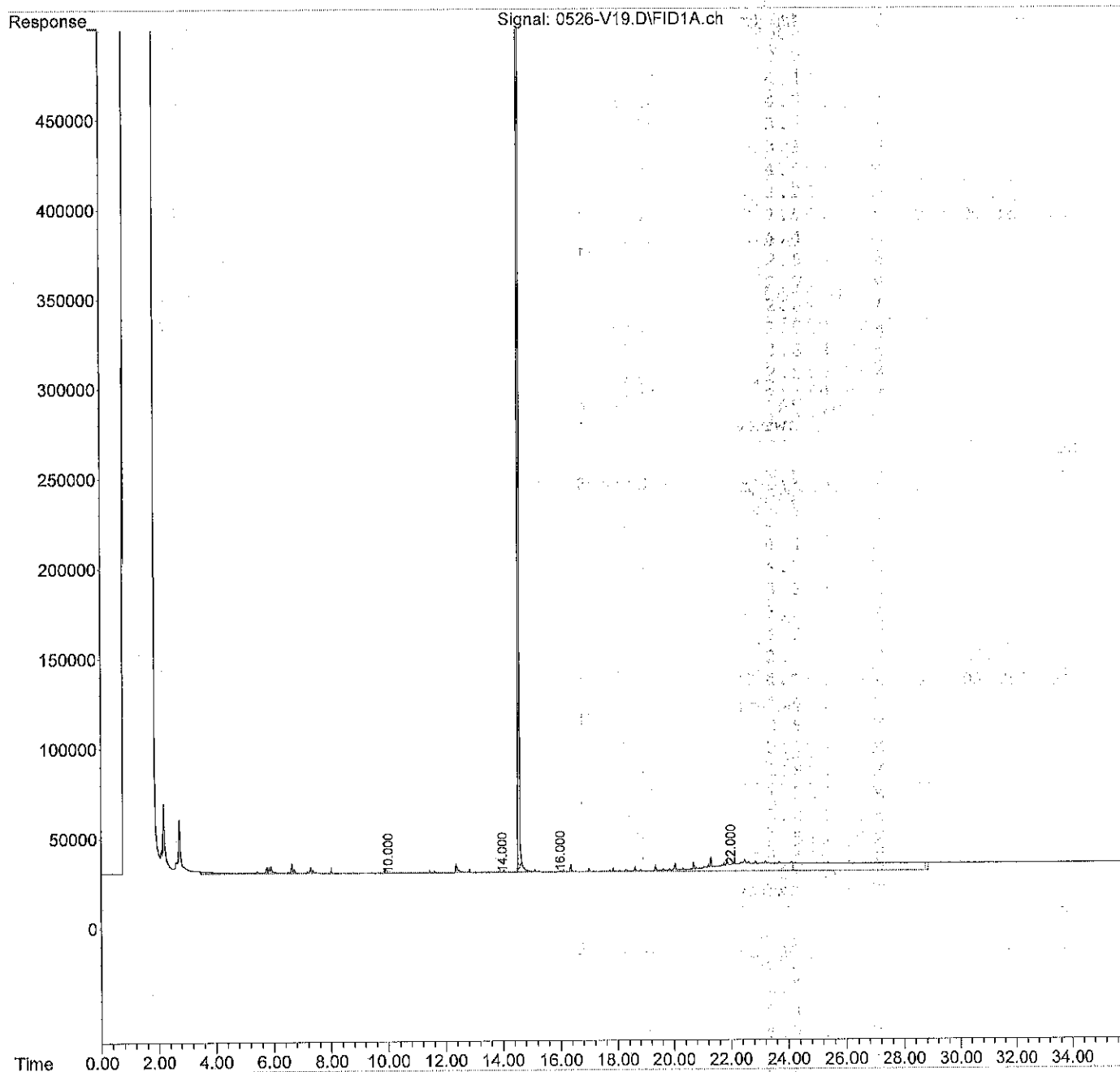
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V19.D
Signal(s) : FID1A.ch
Acq On : 27 May 2022 00:35
Operator : LIMS import
Sample : 05-223-07 ACU
Misc : Sample
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 01:11:02 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V68.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 23:54
 Operator : LIMS import
 Sample : 05-223-08
 Misc : RearSamp
 ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 00:31:27 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.509	114115788	45.978 PPM
Spiked Amount 50.000		Recovery =	91.96%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	7921224	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	116501508	644.995 PPM
5) H Diesel Fuel #2 (05-1...	14.000	162352306	72.649 PPM
6) H Oil (05-19-21)	22.000	134144955	70.106 PPM
7) H Oil Acid Clean (05-21...	22.000	134144955	67.221 PPM
8) H Diesel Fuel #2 Combo ...	14.000	140647181	64.468 PPM
9) H Oil Combo (05-19-21)	22.000	106815188	53.934 PPM
10) H Oil Acid Clean Combo ...	22.000	106815188	52.224 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	160554652	72.465 PPM
12) H HAWAII 8015M Oil (05...	22.000	86388002	42.633 PPM
13) H Mineral Oil (05-19-21)	16.000	180349030	77.356 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	162352306	63.273 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	140647181	56.410 PPM
16) H Hydraulic Oil (02-25...	14.000	225734835	96.860 PPM
17) H Hydraulic Oil ACU (04...	14.000	225734835	78.403 PPM
18) H Mineral Oil Combo (05...	16.000	145437100	65.075 PPM
19) H Oil Acid Clean MO Com...	22.000	80637239	38.608 PPM
20) H Oil MO Combo (05-19-21)	22.000	80637239	39.133 PPM
21) H JP-4 (03-24-21)	8.000	53082474	NoCal PPM
22) H JP-5 (03-25-21)	8.000	46731171	NoCal PPM
23) H JP-8 (03-26-21)	8.000	79804056	NoCal PPM

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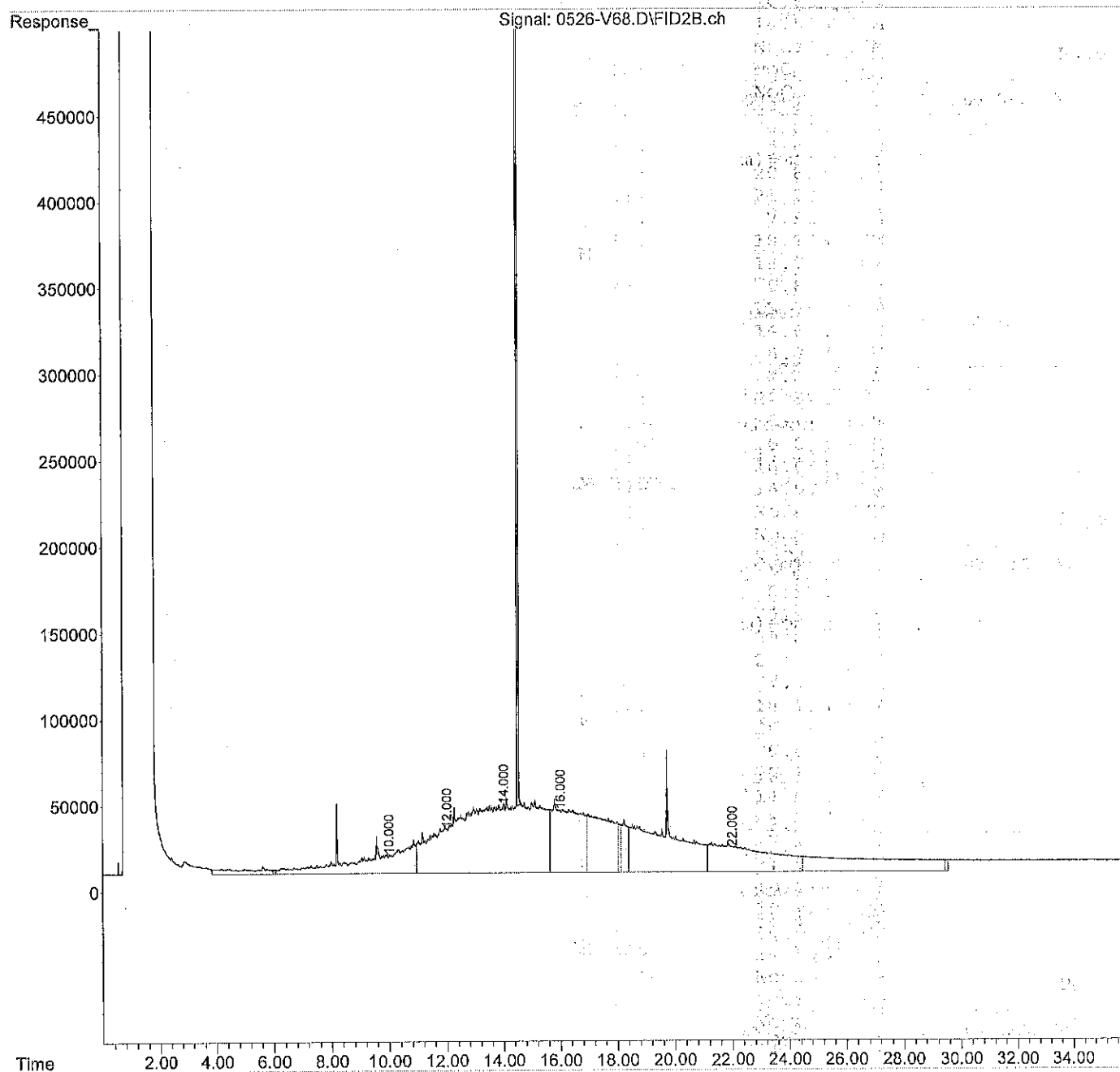
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V68.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 23:54
Operator : LIMS import
Sample : 05-223-08
Misc : RearSamp
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 00:31:27 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V20.D
 Signal(s) : FID1A.ch
 Acq On : 27 May 2022 1:15
 Operator : LIMS import
 Sample : 05-223-08 ACU
 Misc : Sample
 ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 01:51:15 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.575	131550483	45.118 PPM
Spiked Amount 50.000		Recovery =	90.24%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	2210256	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	6574632	2.636 PPM
5) H Diesel Fuel #2 (02-0...	14.000	6198273	4.470 PPM
6) H Oil (02-09-22)	22.000	19697404	4.508 PPM
7) H Oil Acid Clean (02-2...	22.000	19697404	3.104 PPM
8) H Diesel Fuel #2 Combo ...	14.000	5997974	4.286 PPM
9) H Oil Combo (02-09-22)	22.000	19324113	4.178 PPM
10) H Oil Acid Clean Combo ...	22.000	19324113	2.934 PPM
11) H HAWAII 8015M DF2 (02...	14.000	6114828	4.423 PPM
12) H HAWAII 8015M Oil (02...	22.000	18900901	4.021 PPM
13) H Mineral Oil (02-09-22)	16.000	4037022	3.680 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	6198273	3.103 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	5997974	3.128 PPM
16) H Hydraulic Oil	16.000	14243870	1.659 PPM
17) H Hydraulic Oil ACU (04...	16.000	14243870	3.973 PPM
18) H Mineral Oil Combo (02...	16.000	3317333	3.211 PPM
19) H Oil Acid Clean MO Com...	22.000	19152200	2.824 PPM
20) H Oil MO Combo (02-09-22)	22.000	19152200	4.048 PPM

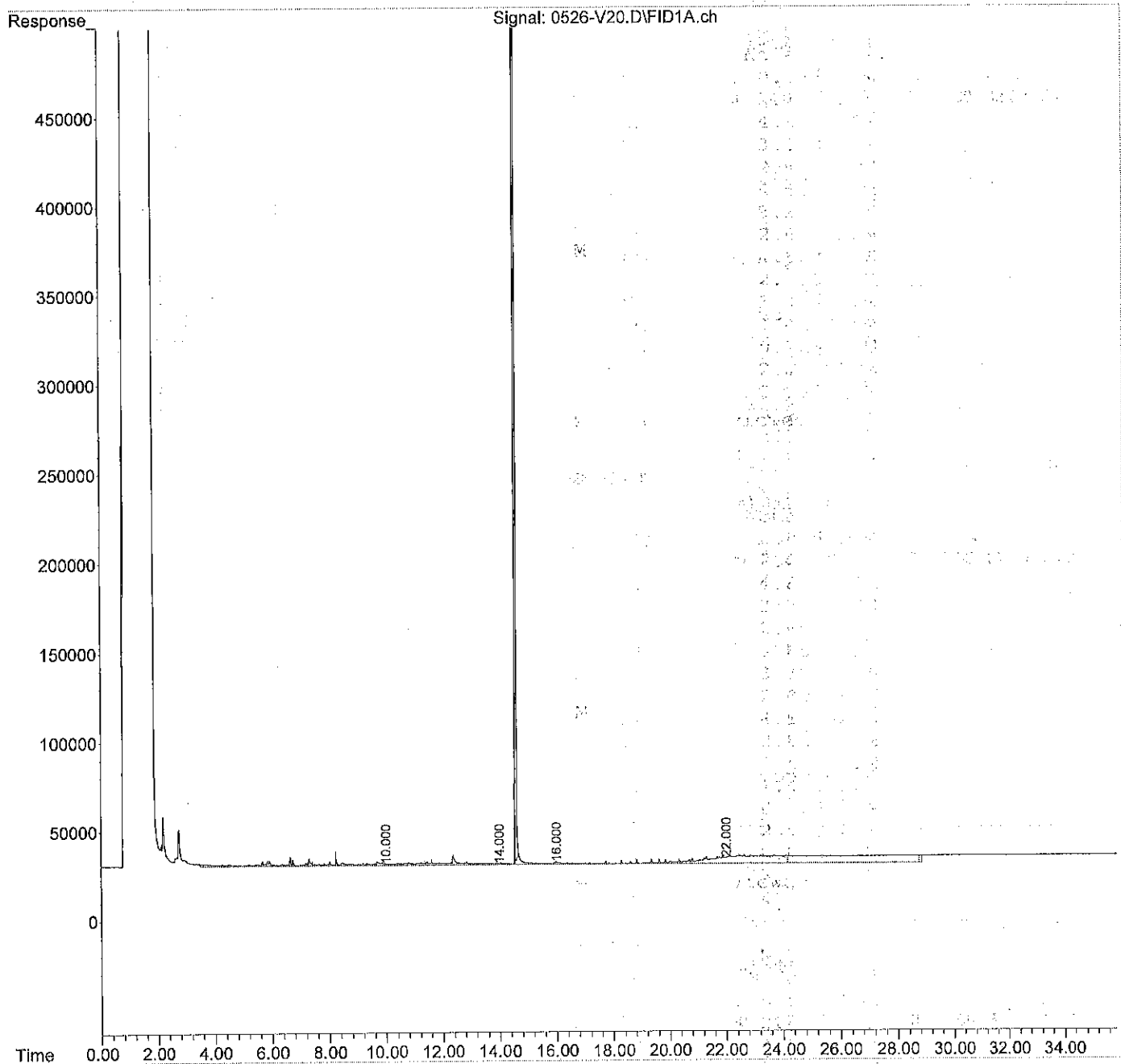
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V20.D
Signal(s) : FID1A.ch
Acq On : 27 May 2022 1:15
Operator : LIMS import
Sample : 05-223-08 ACU
Misc : Sample
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 01:51:15 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V69.D
 Signal(s) : FID2B.ch
 Acq On : 27 May 2022 00:35
 Operator : LIMS import
 Sample : 05-223-09
 Misc : RearSamp
 ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 01:11:41 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.507	107349187	43.270 PPM
Spiked Amount 50.000		Recovery =	86.54%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	7837959	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	108609581	41.291 PPM
5) H Diesel Fuel #2 (05-1...	14.000	151858109	67.666 PPM
6) H Oil (05-19-21)	22.000	128327255	66.400 PPM
7) H Oil Acid Clean (05-21...	22.000	128327255	63.760 PPM
8) H Diesel Fuel #2 Combo ...	14.000	131306068	59.908 PPM
9) H Oil Combo (05-19-21)	22.000	102482187	51.132 PPM
10) H Oil Acid Clean Combo ...	22.000	102482187	49.608 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	150152540	67.486 PPM
12) H HAWAII 8015M Oil (05-...	22.000	83119603	40.446 PPM
13) H Mineral Oil (05-19-21)	16.000	168578494	72.206 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	151858109	58.945 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	131306068	52.443 PPM
16) H Hydraulic Oil (02-25...	14.000	212276481	90.834 PPM
17) H Hydraulic Oil ACU (04...	14.000	212276481	72.910 PPM
18) H Mineral Oil Combo (05...	16.000	135909447	60.800 PPM
19) H Oil Acid Clean MO Com...	22.000	77728245	36.772 PPM
20) H Oil MO Combo (05-19-21)	22.000	77728245	37.167 PPM
21) H JP-4 (03-24-21)	8.000	50127700	NoCal PPM
22) H JP-5 (03-25-21)	8.000	43829620	NoCal PPM
23) H JP-8 (03-26-21)	8.000	74397347	NoCal PPM

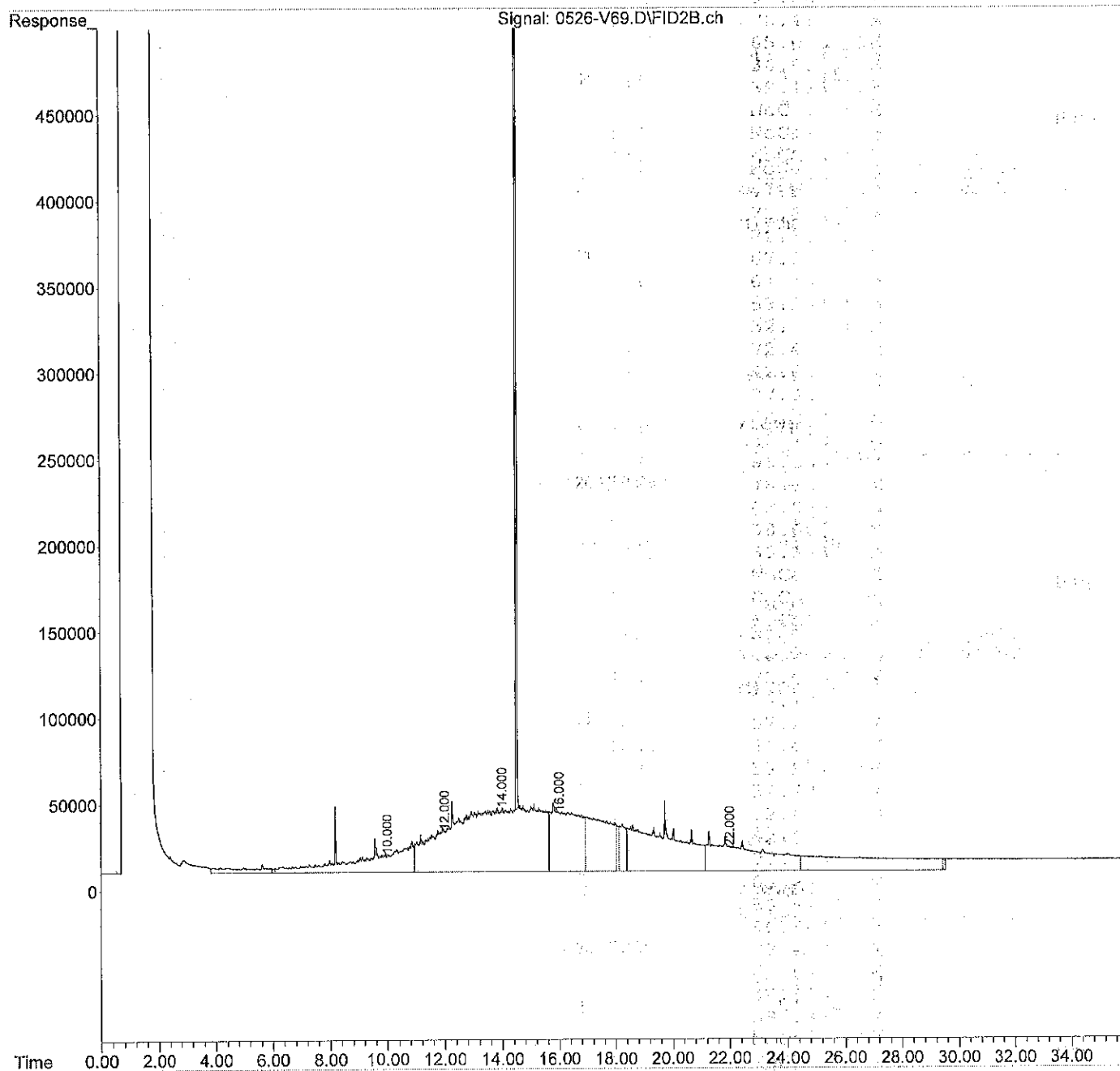
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V69.D
Signal(s) : FID2B.ch
Acq On : 27 May 2022 00:35
Operator : LIMS import
Sample : 05-223-09
Misc : RearSamp
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 01:11:41 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V21.D
 Signal(s) : FID1A.ch
 Acq On : 27 May 2022 8:22
 Operator : LIMS import
 Sample : 05-223-09 ACU
 Misc : Sample
 ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 08:58:51 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.577	135959797	46.625 PPM
Spiked Amount	50.000	Recovery	= 93.25%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	2332969	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	7363897	2.965 PPM
5) H Diesel Fuel #2 (02-0...	14.000	6713174	4.690 PPM
6) H Oil (02-09-22)	22.000	21414407	5.504 PPM
7) H Oil Acid Clean (02-2...	22.000	21414407	3.992 PPM
8) H Diesel Fuel #2 Combo ...	14.000	6594958	4.548 PPM
9) H Oil Combo (02-09-22)	22.000	21195952	5.280 PPM
10) H Oil Acid Clean Combo ...	22.000	21195952	3.916 PPM
11) H HAWAII 8015M DF2 (02...	14.000	6629427	4.645 PPM
12) H HAWAII 8015M Oil (02...	22.000	20830705	5.198 PPM
13) H Mineral Oil (02-09-22)	16.000	4152684	3.727 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	6713174	3.311 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	6594958	3.377 PPM
16) H Hydraulic Oil	16.000	15781129	2.278 PPM
17) H Hydraulic Oil ACU (04...	16.000	15781129	4.510 PPM
18) H Mineral Oil Combo (02...	16.000	3550585	3.309 PPM
19) H Oil Acid Clean MO Com...	22.000	21097810	3.874 PPM
20) H Oil MO Combo (02-09-22)	22.000	21097810	5.225 PPM

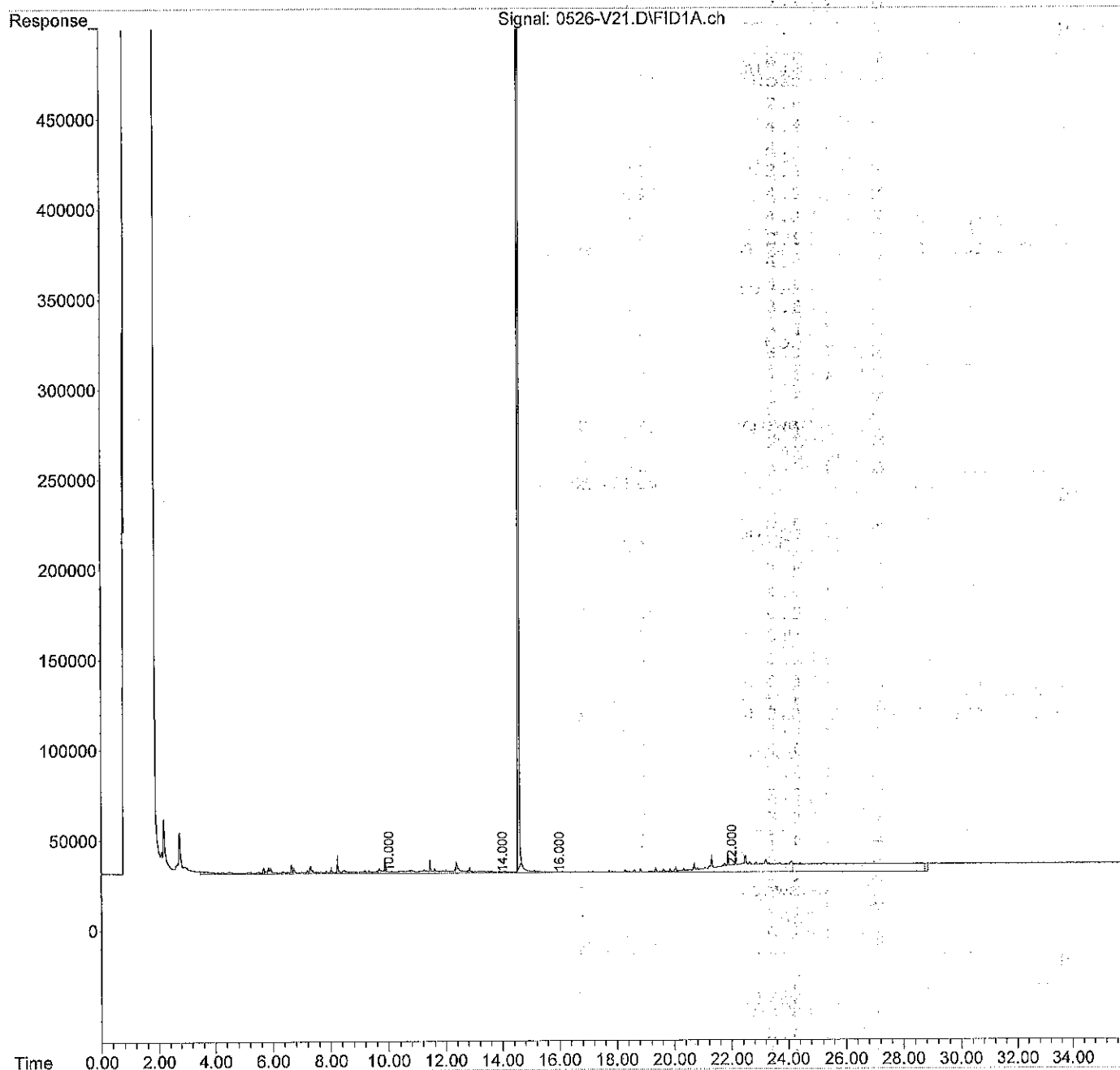
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V21.D
Signal(s) : FID1A.ch
Acq On : 27 May 2022 8:22
Operator : LIMS import
Sample : 05-223-09 ACU
Misc : Sample
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 08:58:51 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V56.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 13:45
 Operator : LIMS import
 Sample : MB0526W1 RECONC.
 Misc : RearSamp
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 14:22:10 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.513	142057556	57.161 PPM
Spiked Amount	50.000	Recovery	= 114.32%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10806036	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	16772731	N.D. PPM
5) H Diesel Fuel #2 (05-1...	14.000	15540348	2.939 PPM
6) H Oil (05-19-21)	22.000	28067122	2.535 PPM
7) H Oil Acid Clean (05-21...	22.000	28067122	4.111 PPM
8) H Diesel Fuel #2 Combo ...	14.000	14512394	2.892 PPM
9) H Oil Combo (05-19-21)	22.000	26705538	2.120 PPM
10) H Oil Acid Clean Combo ...	22.000	26705538	3.849 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	15291388	2.942 PPM
12) H HAWAII 8015M Oil (05...	22.000	25508455	1.899 PPM
13) H Mineral Oil (05-19-21)	16.000	12025521	3.698 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	15540348	2.717 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	14512394	2.839 PPM
16) H Hydraulic Oil (02-25...	14.000	27877540	8.270 PPM
17) H Hydraulic Oil ACU (04...	14.000	27877540	N.D. PPM
18) H Mineral Oil Combo (05...	16.000	7836243	3.339 PPM
19) H Oil Acid Clean MO Com...	22.000	25118025	3.568 PPM
20) H Oil MO Combo (05-19-21)	22.000	25118025	1.605 PPM
21) H JP-4 (03-24-21)	8.000	27833034	NoCal PPM
22) H JP-5 (03-25-21)	8.000	13532335	NoCal PPM
23) H JP-8 (03-26-21)	8.000	14904559	NoCal PPM

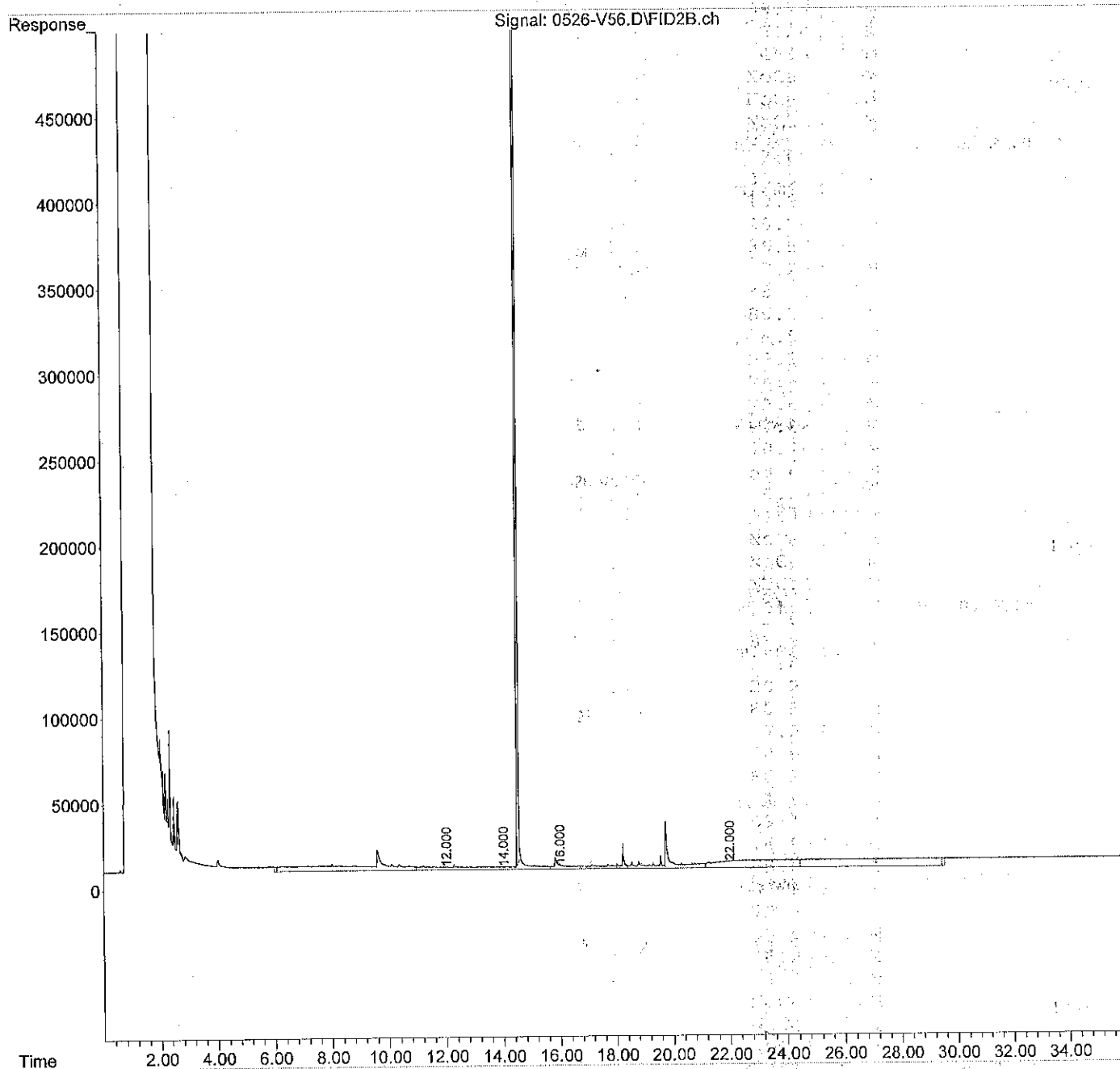
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V56.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 13:45
Operator : LIMS import
Sample : MB0526W1 RECONC.
Misc : RearSamp
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 14:22:10 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V08.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 17:11
 Operator : LIMS import
 Sample : MB0526W1 ACU
 Misc : Sample
 ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 17:47:34 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.591	210444681	72.093 PPM
Spiked Amount 50.000		Recovery =	144.19%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	3699500	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	19153669	7.871 PPM
5) H Diesel Fuel #2 (02-0...	14.000	22943136	11.618 PPM
6) H Oil (02-09-22)	22.000	47079007	20.390 PPM
7) H Oil Acid Clean (02-2...	22.000	47079007	17.266 PPM
8) H Diesel Fuel #2 Combo ...	14.000	20519721	10.661 PPM
9) H Oil Combo (02-09-22)	22.000	43852299	18.621 PPM
10) H Oil Acid Clean Combo ...	22.000	43852299	15.810 PPM
11) H HAWAII 8015M DF2 (02...	14.000	22400117	11.446 PPM
12) H HAWAII 8015M Oil (02...	22.000	41441858	17.774 PPM
13) H Mineral Oil (02-09-22)	16.000	20995327	10.514 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	22943136	9.887 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	20519721	9.182 PPM
16) H Hydraulic Oil	16.000	45363793	14.191 PPM
17) H Hydraulic Oil ACU (04...	16.000	45363793	14.844 PPM
18) H Mineral Oil Combo (02...	16.000	14348352	7.824 PPM
19) H Oil Acid Clean MO Com...	22.000	41980440	15.137 PPM
20) H Oil MO Combo (02-09-22)	22.000	41980440	17.866 PPM

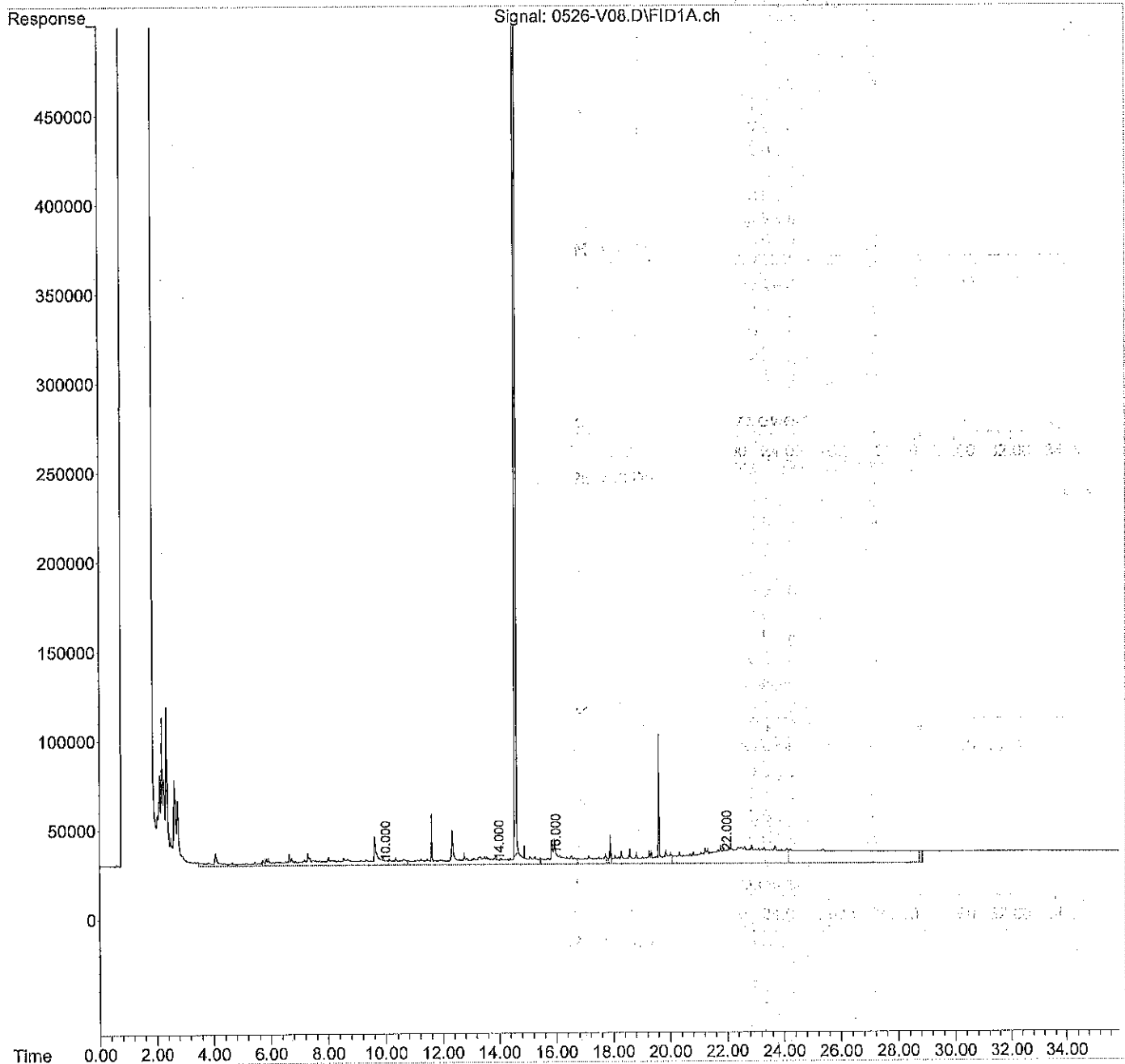
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V08.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 17:11
Operator : LIMS import
Sample : MB0526W1 ACU
Misc : Sample
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 17:47:34 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V07.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 14:25
 Operator : LIMS import
 Sample : SB0526W1 RECON
 Misc : Sample
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 15:01:47 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.574	116031437	39.811 PPM
Spiked Amount	50.000	Recovery =	79.62%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	9390412	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	171906195	71.440 PPM
5) H Diesel Fuel #2 (02-0...	14.000	181971394	79.501 PPM
6) H Oil (02-09-22)	22.000	42702364	17.851 PPM
7) H Oil Acid Clean (02-2...	22.000	42702364	15.003 PPM
8) H Diesel Fuel #2 Combo ...	14.000	177623580	79.634 PPM
9) H Oil Combo (02-09-22)	22.000	30545030	10.785 PPM
10) H Oil Acid Clean Combo ...	22.000	30545030	8.824 PPM
11) H HAWAII 8015M DF2 (02...	14.000	181382630	80.007 PPM
12) H HAWAII 8015M Oil (02...	22.000	26094677	8.410 PPM
13) H Mineral Oil (02-09-22)	16.000	133334043	55.779 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	181971394	74.323 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	177623580	74.677 PPM
16) H Hydraulic Oil	16.000	194359103	74.192 PPM
17) H Hydraulic Oil ACU (04...	16.000	194359103	66.896 PPM
18) H Mineral Oil Combo (02...	16.000	128986487	55.763 PPM
19) H Oil Acid Clean MO Com...	22.000	26549394	8.814 PPM
20) H Oil MO Combo (02-09-22)	22.000	26549394	8.525 PPM

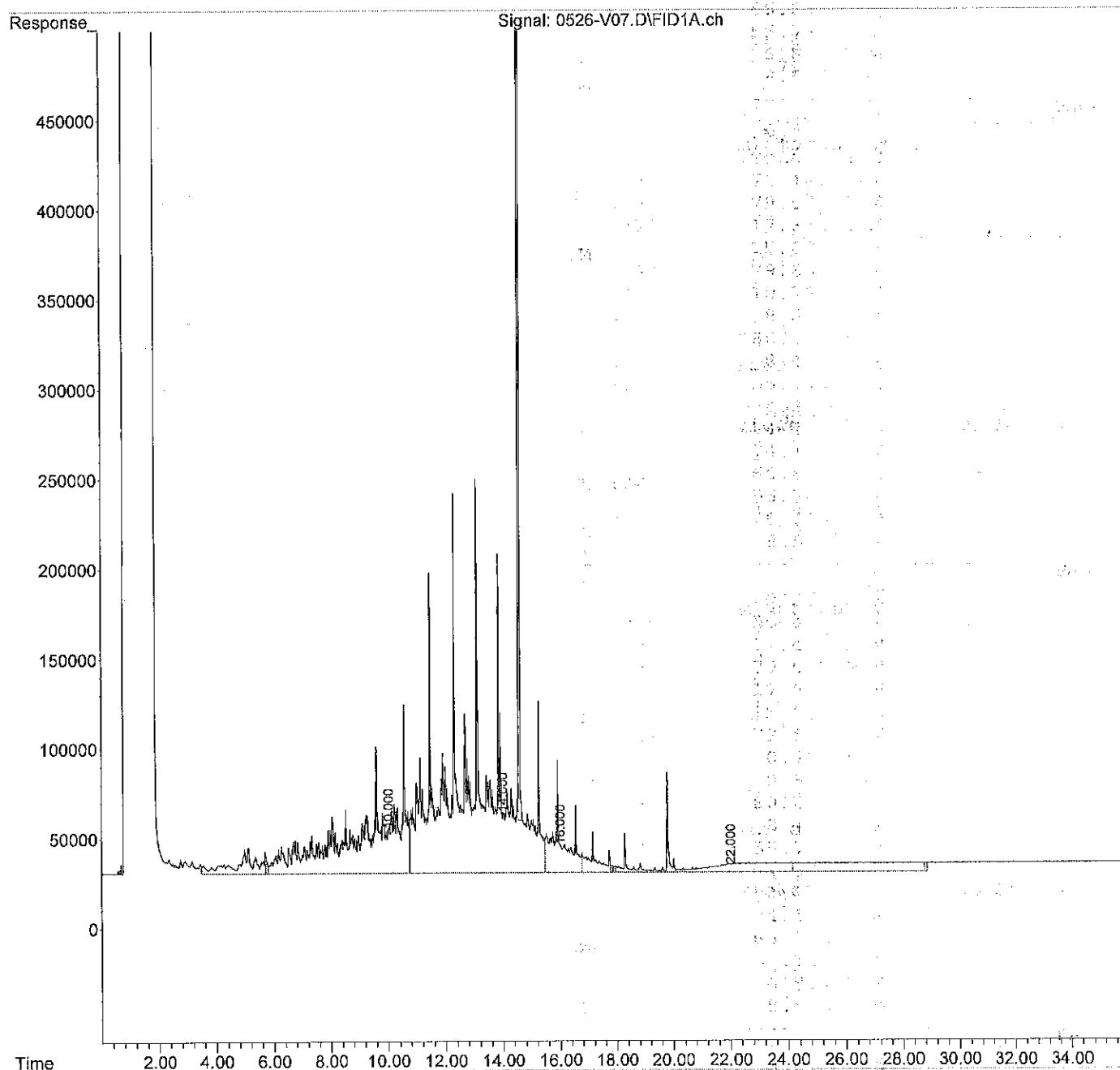
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V07.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 14:25
Operator : LIMS import
Sample : SB0526W1 RECON
Misc : Sample
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 15:01:47 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V55.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 13:05
 Operator : LIMS import
 Sample : SBD0526W1
 Misc : RearSamp
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 13:41:57 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.508	104516639	42.137 PPM
Spiked Amount 50.000		Recovery =	84.27%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17914451	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	174164611	72.059 PPM
5) H Diesel Fuel #2 (05-1...	14.000	190414442	85.974 PPM
6) H Oil (05-19-21)	22.000	55184039	19.808 PPM
7) H Oil Acid Clean (05-21...	22.000	55184039	20.244 PPM
8) H Diesel Fuel #2 Combo ...	14.000	185956556	86.587 PPM
9) H Oil Combo (05-19-21)	22.000	34624477	7.242 PPM
10) H Oil Acid Clean Combo ...	22.000	34624477	8.631 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	189601224	86.366 PPM
12) H HAWAII 8015M Oil (05-...	22.000	30131445	4.993 PPM
13) H Mineral Oil (05-19-21)	16.000	138850268	59.196 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	190414442	74.848 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	185956556	75.654 PPM
16) H Hydraulic Oil (02-25...	14.000	205643090	87.864 PPM
17) H Hydraulic Oil ACU (04...	14.000	205643090	70.203 PPM
18) H Mineral Oil Combo (05...	16.000	132961405	59.477 PPM
19) H Oil Acid Clean MO Com...	22.000	29361986	6.246 PPM
20) H Oil MO Combo (05-19-21)	22.000	29361986	4.474 PPM
21) H JP-4 (03-24-21)	8.000	113395469	NoCal PPM
22) H JP-5 (03-25-21)	8.000	104794482	NoCal PPM
23) H JP-8 (03-26-21)	8.000	145648976	NoCal PPM

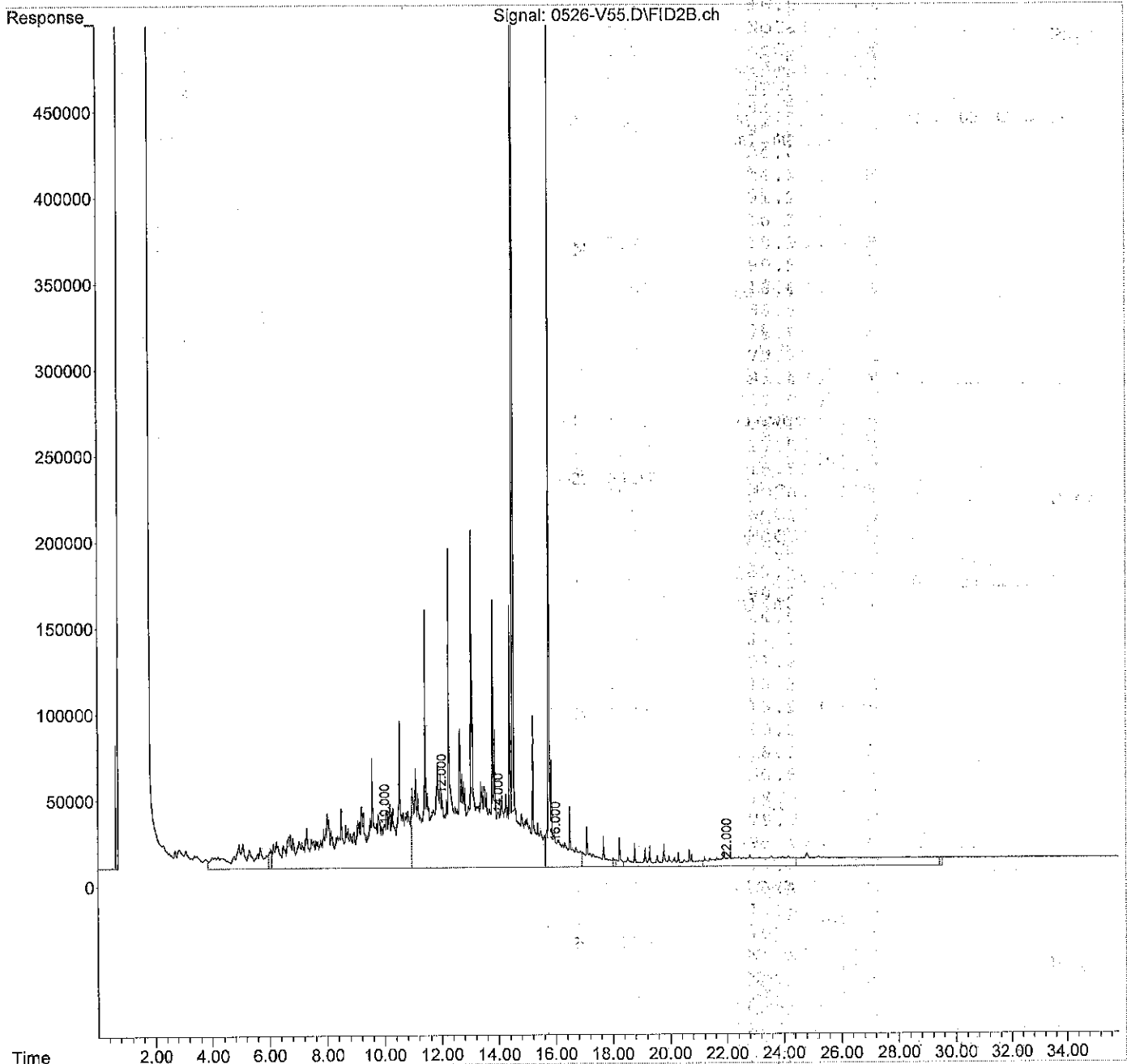
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V55.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 13:05
Operator : LIMS import
Sample : SBD0526W1
Misc : RearSamp
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 13:41:57 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V09.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 17:51
 Operator : LIMS import
 Sample : SB0526W1 ACU
 Misc : Sample
 ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 18:27:49 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.575	125839788	43.165 PPM
Spiked Amount	50.000	Recovery =	86.33%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10973692	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	194584956	80.878 PPM
5) H Diesel Fuel #2 (02-0...	14.000	205720756	89.638 PPM
6) H Oil (02-09-22)	22.000	44052201	18.634 PPM
7) H Oil Acid Clean (02-2...	22.000	44052201	15.701 PPM
8) H Diesel Fuel #2 Combo ...	14.000	200783052	89.802 PPM
9) H Oil Combo (02-09-22)	22.000	30600058	10.817 PPM
10) H Oil Acid Clean Combo ...	22.000	30600058	8.853 PPM
11) H HAWAII 8015M DF2 (02...	14.000	205043952	90.211 PPM
12) H HAWAII 8015M Oil (02...	22.000	25586401	8.100 PPM
13) H Mineral Oil (02-09-22)	16.000	149593504	62.331 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	205720756	83.946 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	200783052	84.332 PPM
16) H Hydraulic Oil	16.000	217336800	83.445 PPM
17) H Hydraulic Oil ACU (04...	16.000	217336800	74.924 PPM
18) H Mineral Oil Combo (02...	16.000	146929323	63.266 PPM
19) H Oil Acid Clean MO Com...	22.000	26059678	6.550 PPM
20) H Oil MO Combo (02-09-22)	22.000	26059678	8.229 PPM

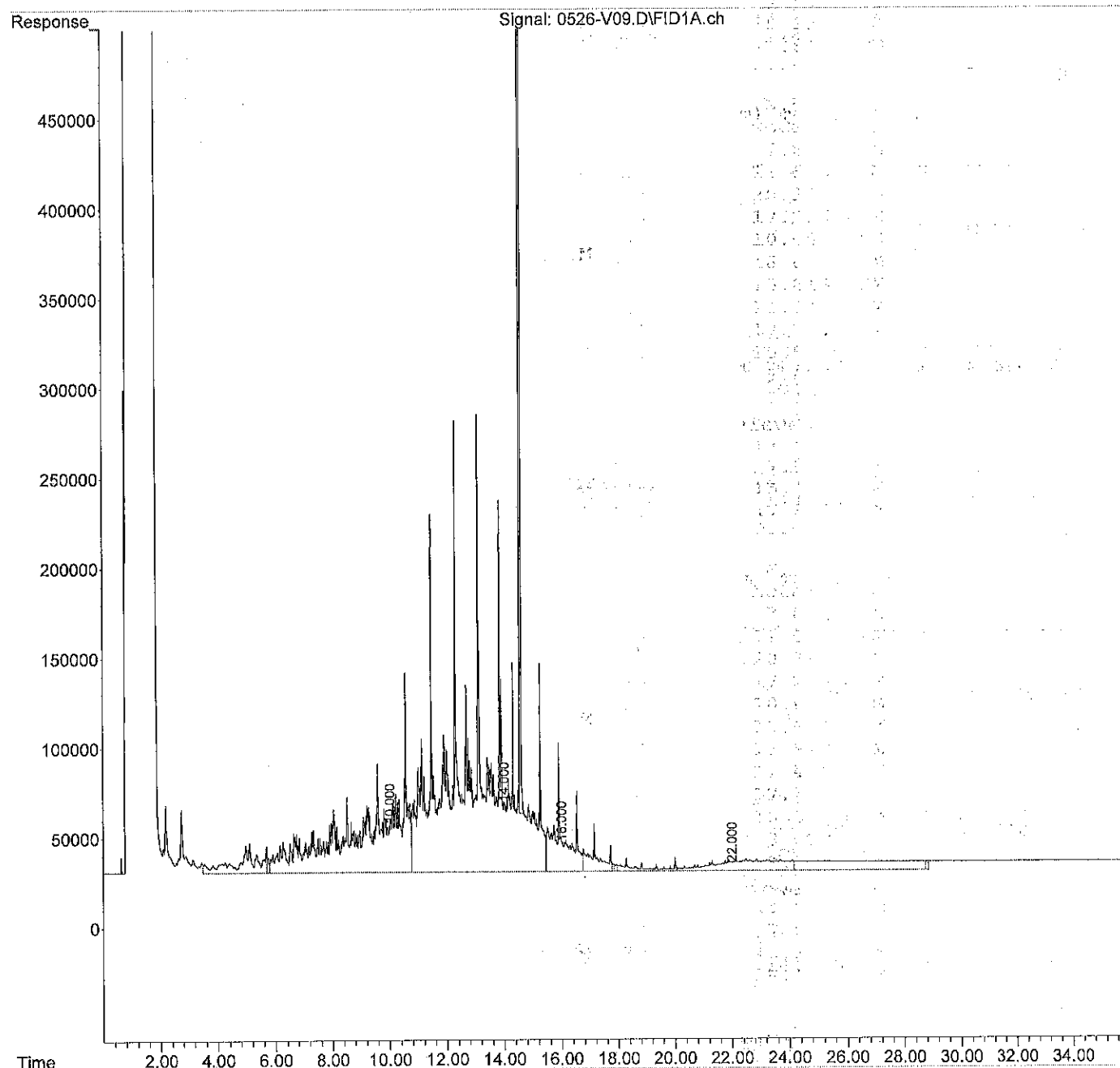
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V09.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 17:51
Operator : LIMS import
Sample : SB0526W1 ACU
Misc : Sample
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 18:27:49 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V10.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 18:32
 Operator : LIMS import
 Sample : SBD0526W1 ACU
 Misc : Sample
 ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 19:08:07 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.574	125849205	43.168 PPM
Spiked Amount	50.000	Recovery =	86.34%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	12150895	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	200998517	83.547 PPM
5) H Diesel Fuel #2 (02-0...	14.000	211478051	92.096 PPM
6) H Oil (02-09-22)	22.000	46478669	201.042 PPM
7) H Oil Acid Clean (02-2...	22.000	46478669	16.956 PPM
8) H Diesel Fuel #2 Combo ...	14.000	206302577	92.225 PPM
9) H Oil Combo (02-09-22)	22.000	33006998	12.235 PPM
10) H Oil Acid Clean Combo ...	22.000	33006998	10.117 PPM
11) H HAWAII 8015M DF2 (02...	14.000	210750365	92.672 PPM
12) H HAWAII 8015M Oil (02...	22.000	27765214	9.429 PPM
13) H Mineral Oil (02-09-22)	16.000	150261479	62.600 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	211478051	86.279 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	206302577	86.633 PPM
16) H Hydraulic Oil	16.000	224862835	86.476 PPM
17) H Hydraulic Oil ACU (04...	16.000	224862835	77.553 PPM
18) H Mineral Oil Combo (02...	16.000	146302711	63.004 PPM
19) H Oil Acid Clean MO Com...	22.000	28234416	7.723 PPM
20) H Oil MO Combo (02-09-22)	22.000	28234416	9.545 PPM

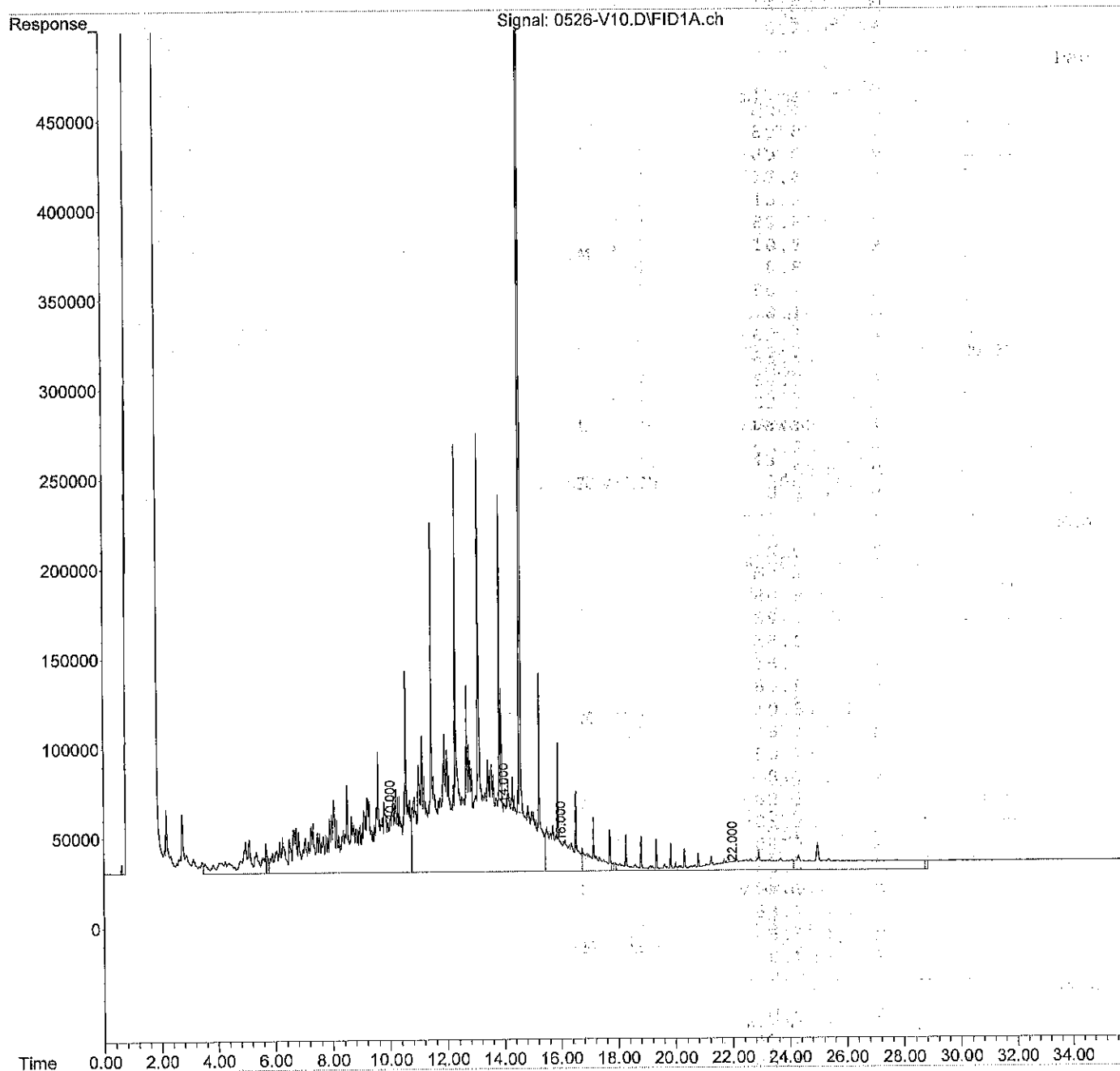
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V10.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 18:32
Operator : LIMS import
Sample : SBD0526W1 ACU
Misc : Sample
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 19:08:07 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V02.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 10:50
 Operator : LIMS import
 Sample : CCV0526F-V1
 Misc : Sample
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 11:26:53 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.556	1745180	0.735 PPM
Spiked Amount	50.000	Recovery =	1.47%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	16667122	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	193675601	80.500 PPM
5) H Diesel Fuel #2 (02-0...	14.000	197663596	86.199 PPM
6) H Oil (02-09-22)	22.000	67823339	32.422 PPM
7) H Oil Acid Clean (02-2...	22.000	67823339	27.996 PPM
8) H Diesel Fuel #2 Combo ...	14.000	193432156	86.574 PPM
9) H Oil Combo (02-09-22)	22.000	56553921	26.099 PPM
10) H Oil Acid Clean Combo ...	22.000	56553921	22.478 PPM
11) H HAWAII 8015M DF2 (02...	14.000	196856441	86.680 PPM
12) H HAWAII 8015M Oil (02...	22.000	51977429	24.202 PPM
13) H Mineral Oil (02-09-22)	16.000	132286704	55.357 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	197663596	80.681 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	193432156	81.268 PPM
16) H Hydraulic Oil	16.000	222222141	85.412 PPM
17) H Hydraulic Oil ACU (04...	16.000	222222141	76.630 PPM
18) H Mineral Oil Combo (02...	16.000	128930203	55.740 PPM
19) H Oil Acid Clean MO Com...	22.000	52680500	20.909 PPM
20) H Oil MO Combo (02-09-22)	22.000	52680500	24.344 PPM

(f)=RT Delta > 1/2 Window

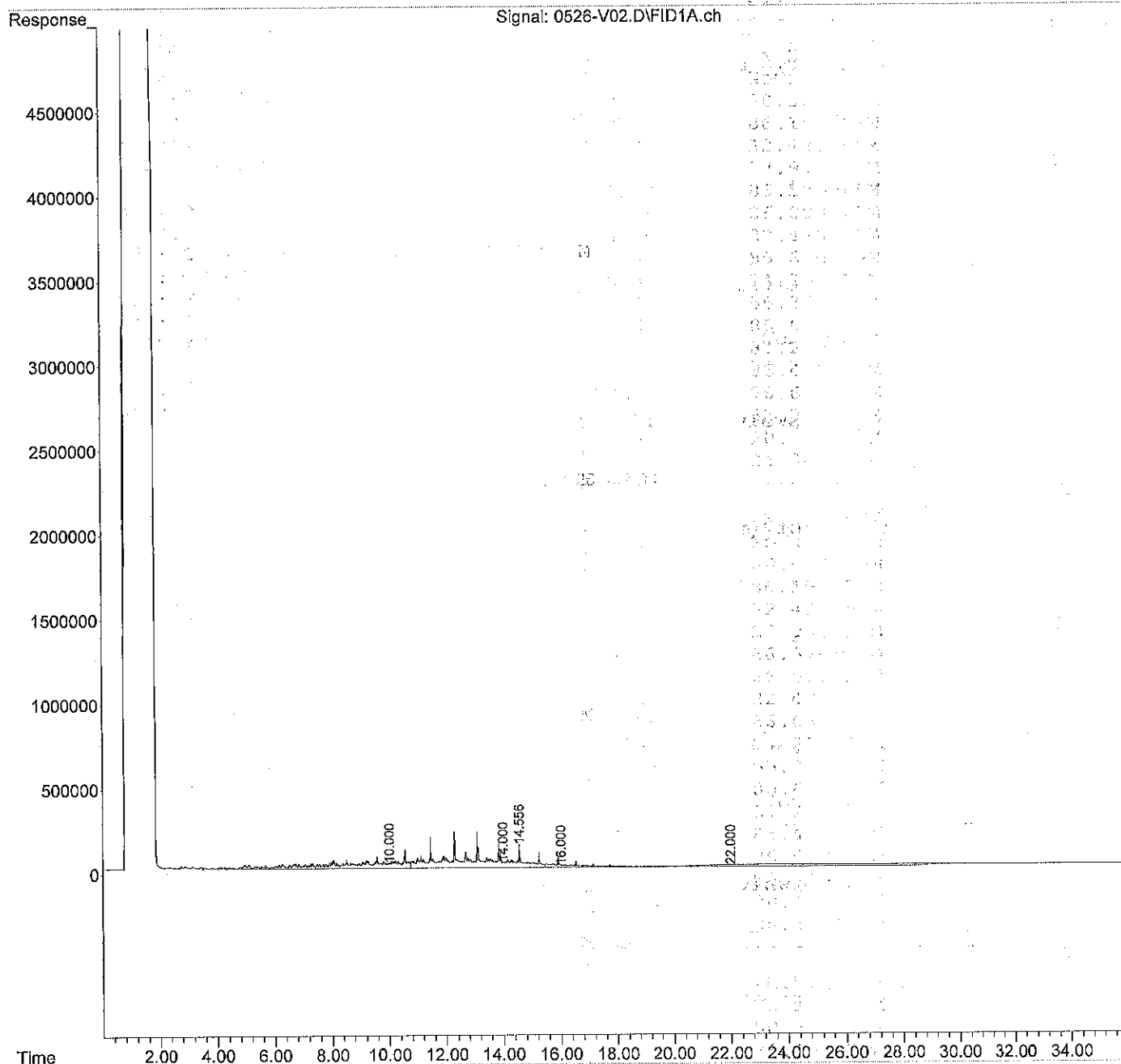
(m) Manual Int.

10.000	80.500 PPM
14.000	86.199 PPM
22.000	32.422 PPM
22.000	27.996 PPM
14.000	86.574 PPM
22.000	26.099 PPM
22.000	22.478 PPM
14.000	86.680 PPM
22.000	24.202 PPM
16.000	55.357 PPM
14.000	80.681 PPM
14.000	81.268 PPM
16.000	85.412 PPM
16.000	76.630 PPM
16.000	55.740 PPM
22.000	20.909 PPM
22.000	24.344 PPM

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V02.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 10:50
Operator : LIMS import
Sample : CCV0526F-V1
Misc : Sample
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 11:26:53 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V03.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 11:44
 Operator : LIMS import
 Sample : CCV0526F-V2
 Misc : Sample
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 12:20:56 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.560	1742566	0.734 PPM
Spiked Amount	50.000	Recovery =	1.47%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17016881	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	199435235	82.897 PPM
5) H Diesel Fuel #2 (02-0...	14.000	204351241	89.054 PPM
6) H Oil (02-09-22)	22.000	57360751	26.353 PPM
7) H Oil Acid Clean (02-2...	22.000	57360751	22.585 PPM
8) H Diesel Fuel #2 Combo ...	14.000	199593599	89.279 PPM
9) H Oil Combo (02-09-22)	22.000	45428266	19.548 PPM
10) H Oil Acid Clean Combo ...	22.000	45428266	16.637 PPM
11) H HAWAII 8015M DF2 (02...	14.000	203417754	89.510 PPM
12) H HAWAII 8015M Oil (02...	22.000	40440760	17.163 PPM
13) H Mineral Oil (02-09-22)	16.000	136818327	57.183 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	204351241	83.391 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	199593599	83.836 PPM
16) H Hydraulic Oil	16.000	222383068	85.477 PPM
17) H Hydraulic Oil ACU (04...	16.000	222383068	76.687 PPM
18) H Mineral Oil Combo (02...	16.000	133206324	57.528 PPM
19) H Oil Acid Clean MO Com...	22.000	41102109	14.664 PPM
20) H Oil MO Combo (02-09-22)	22.000	41102109	17.335 PPM

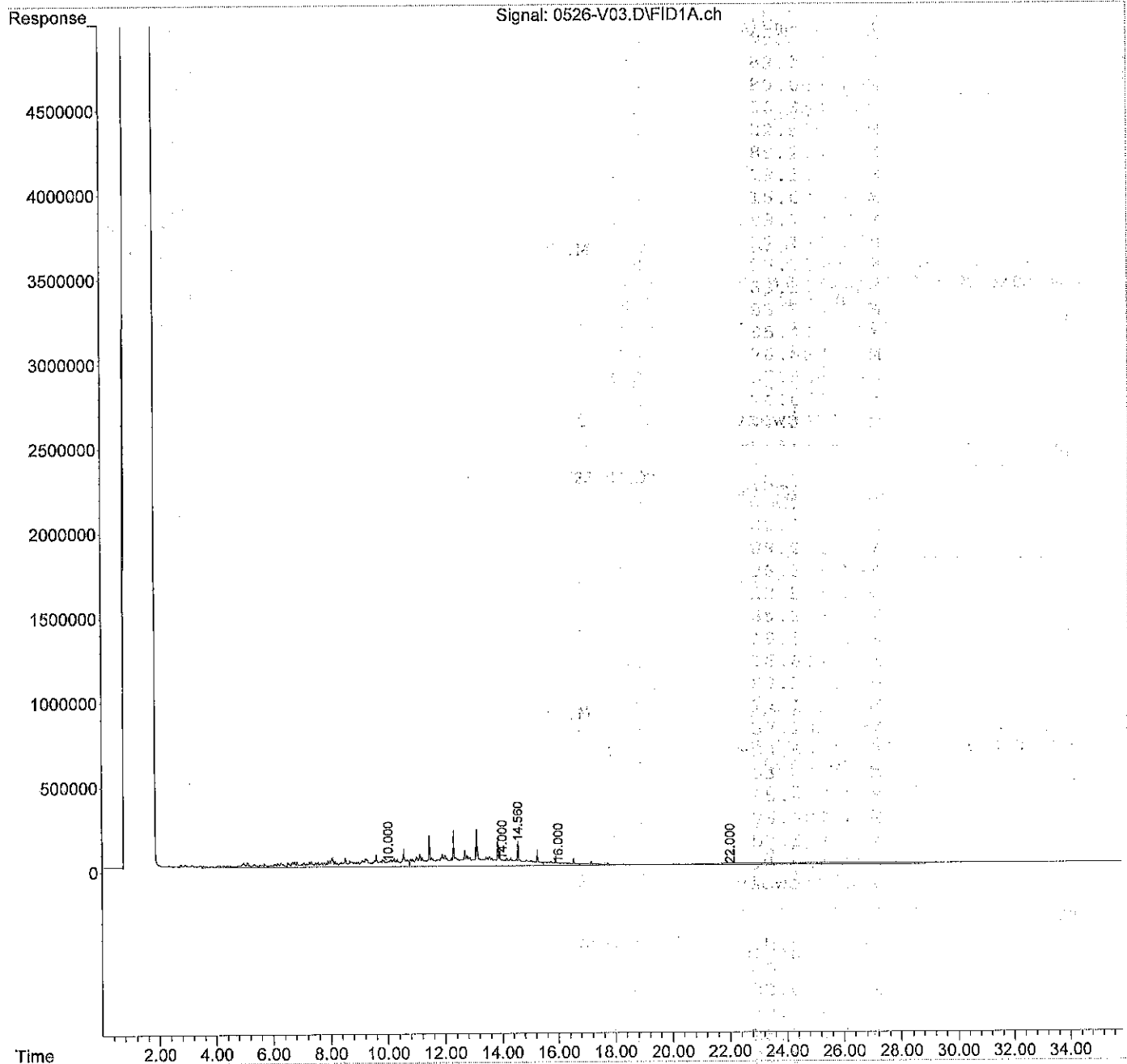
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V03.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 11:44
Operator : LIMS import
Sample : CCV0526F-V2
Misc : Sample
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 12:20:56 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V13.D
 Signal(s) : FID1A.ch
 Acq On : 26 May 2022 20:32
 Operator : LIMS import
 Sample : CCV0526F-V3
 Misc : Sample
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 21:08:59 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.555	1810997	0.757 PPM
Spiked Amount	50.000	Recovery =	1.51%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17074078	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	200185268	83.209 PPM
5) H Diesel Fuel #2 (02-0...	14.000	203885863	88.855 PPM
6) H Oil (02-09-22)	22.000	36777691	14.415 PPM
7) H Oil Acid Clean (02-2...	22.000	36777691	11.938 PPM
8) H Diesel Fuel #2 Combo ...	14.000	199803071	89.371 PPM
9) H Oil Combo (02-09-22)	22.000	25323279	7.710 PPM
10) H Oil Acid Clean Combo ...	22.000	25323279	6.083 PPM
11) H HAWAII 8015M DF2 (02...	14.000	203074757	89.362 PPM
12) H HAWAII 8015M Oil (02...	22.000	21140325	5.387 PPM
13) H Mineral Oil (02-09-22)	16.000	134301623	56.169 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	203885863	83.203 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	199803071	83.924 PPM
16) H Hydraulic Oil	16.000	212294358	81.415 PPM
17) H Hydraulic Oil ACU (04...	16.000	212294358	73.162 PPM
18) H Mineral Oil Combo (02...	16.000	132542890	57.250 PPM
19) H Oil Acid Clean MO Com...	22.000	21554818	4.120 PPM
20) H Oil MO Combo (02-09-22)	22.000	21554818	5.502 PPM

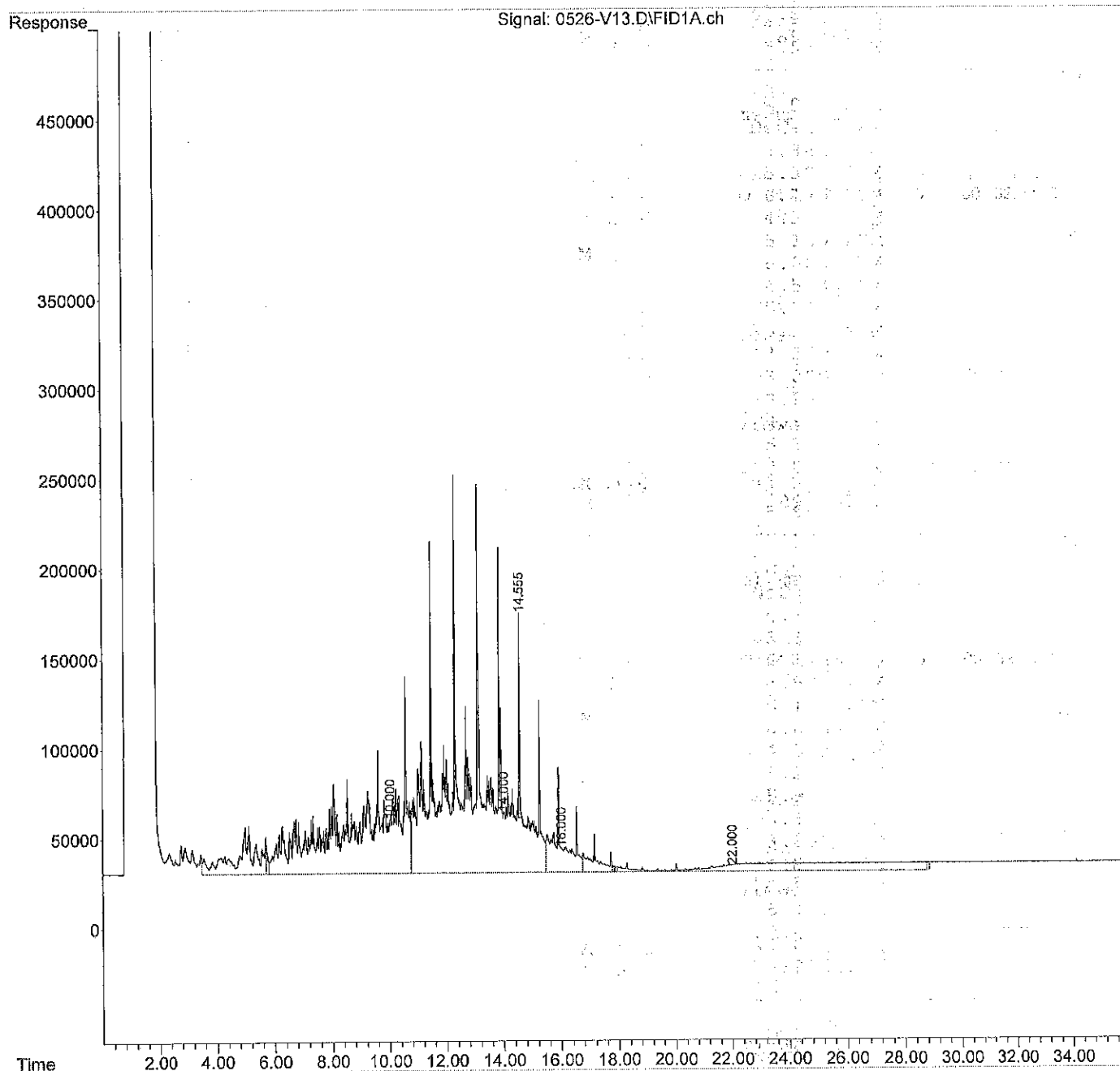
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V13.D
Signal(s) : FID1A.ch
Acq On : 26 May 2022 20:32
Operator : LIMS import
Sample : CCV0526F-V3
Misc : Sample
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 21:08:59 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526\
 Data File : 0526-V23.D
 Signal(s) : FID1A.ch
 Acq On : 27 May 2022 9:43
 Operator : LIMS import
 Sample : CCV0526F-V4
 Misc : Sample
 ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 10:19:05 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 07:24:36 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.556	2097302	0.855 PPM
Spiked Amount	50.000	Recovery =	1.71%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	19459668	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	230746187	95.927 PPM
5) H Diesel Fuel #2 (02-0...	14.000	235058450	102.161 PPM
6) H Oil (02-09-22)	22.000	37738759	14.972 PPM
7) H Oil Acid Clean (02-2...	22.000	37738759	12.435 PPM
8) H Diesel Fuel #2 Combo ...	14.000	230372231	102.792 PPM
9) H Oil Combo (02-09-22)	22.000	24544942	7.252 PPM
10) H Oil Acid Clean Combo ...	22.000	24544942	5.674 PPM
11) H HAWAII 8015M DF2 (02...	14.000	234132105	102.755 PPM
12) H HAWAII 8015M Oil (02...	22.000	19811081	4.576 PPM
13) H Mineral Oil (02-09-22)	16.000	155050913	64.530 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	235058450	95.833 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	230372231	96.668 PPM
16) H Hydraulic Oil	16.000	243018112	93.787 PPM
17) H Hydraulic Oil ACU (04...	16.000	243018112	83.896 PPM
18) H Mineral Oil Combo (02...	16.000	152965188	65.790 PPM
19) H Oil Acid Clean MO Com...	22.000	20229797	3.406 PPM
20) H Oil MO Combo (02-09-22)	22.000	20229797	4.700 PPM

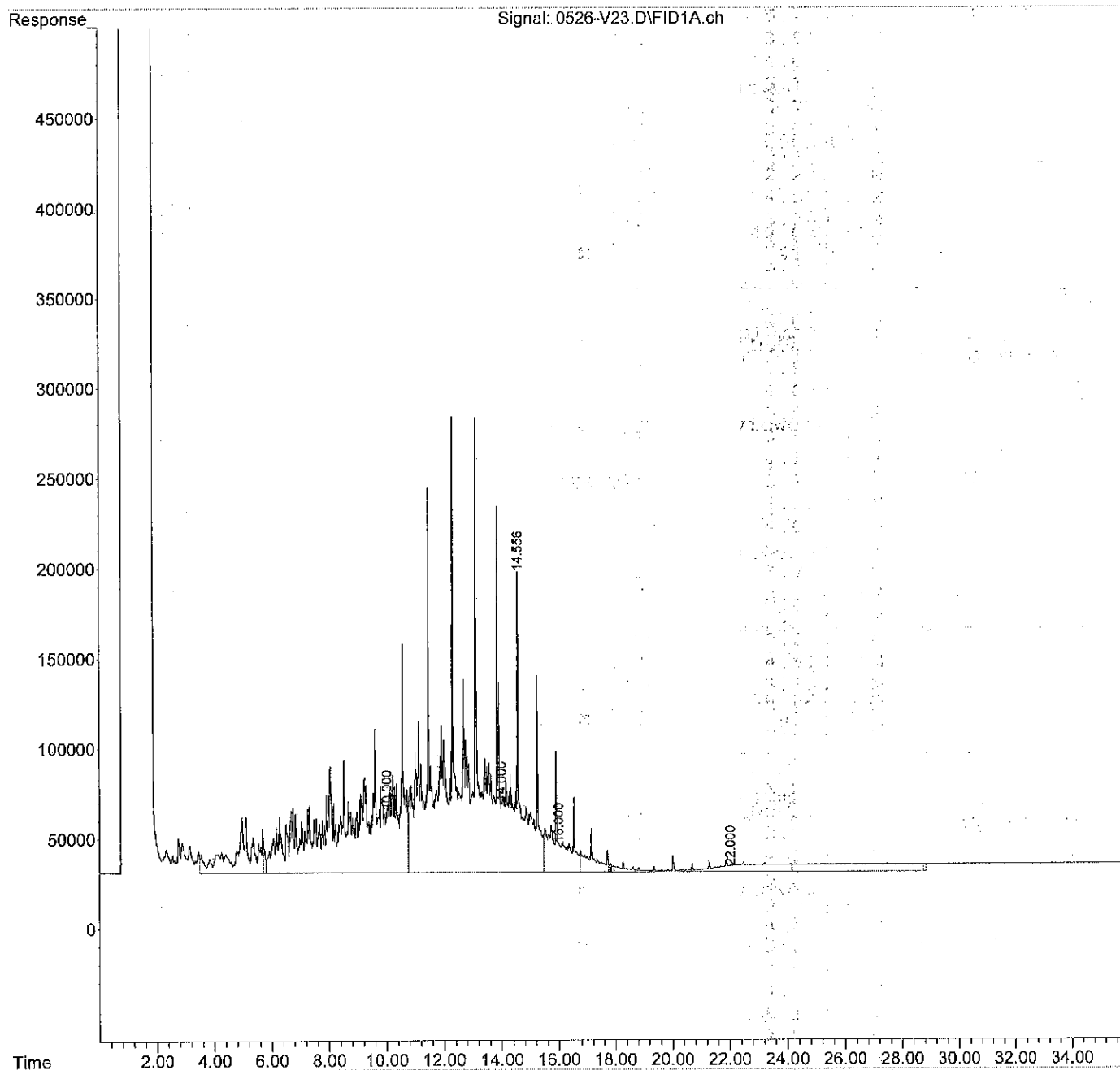
(f)=RT Delta > 1/2 Window

(m)=manual Int.

Data Path : X:\DIESELS\Vigo\Data\V220526\
Data File : 0526-V23.D
Signal(s) : FID1A.ch
Acq On : 27 May 2022 9:43
Operator : LIMS import
Sample : CCV0526F-V4
Misc : Sample
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:19:05 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 07:24:36 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V52.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 10:50
 Operator : LIMS import
 Sample : CCV0526R-V1
 Misc : RearSamp
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 11:27:32 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	26046483	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	198586685	83.522 PPM
5) H Diesel Fuel #2 (05-1...	14.000	199493373	90.285 PPM
6) H Oil (05-19-21)	22.000	61854551	24.057 PPM
7) H Oil Acid Clean (05-21...	22.000	61854551	24.212 PPM
8) H Diesel Fuel #2 Combo ...	14.000	195539741	91.266 PPM
9) H Oil Combo (05-19-21)	22.000	51726899	18.303 PPM
10) H Oil Acid Clean Combo ...	22.000	51726899	18.959 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	198427560	90.591 PPM
12) H HAWAII 8015M Oil (05-...	22.000	47584076	16.670 PPM
13) H Mineral Oil (05-19-21)	16.000	133114245	56.686 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	199493373	78.593 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	195539741	79.724 PPM
16) H Hydraulic Oil (02-25...	14.000	222517560	95.420 PPM
17) H Hydraulic Oil ACU (04...	14.000	222517560	77.090 PPM
18) H Mineral Oil Combo (05...	16.000	127369450	56.968 PPM
19) H Oil Acid Clean MO Com...	22.000	47231743	17.525 PPM
20) H Oil MO Combo (05-19-21)	22.000	47231743	16.553 PPM
21) H JP-4 (03-24-21)	8.000	139257871	NoCal PPM
22) H JP-5 (03-25-21)	8.000	127934154	NoCal PPM
23) H JP-8 (03-26-21)	8.000	170991882	NoCal PPM

(f)=RT Delta > 1/2 Window

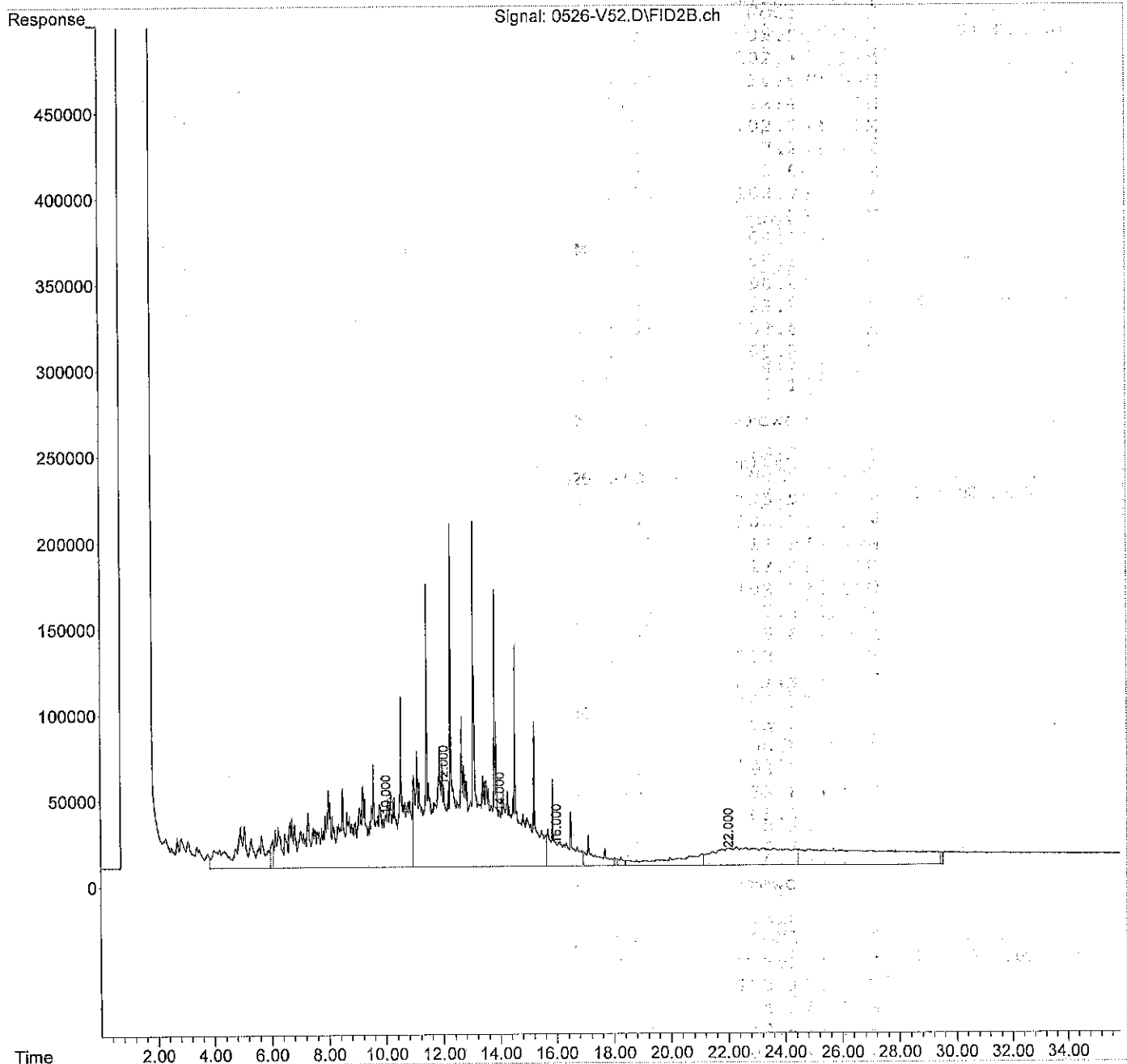
(m)=manual int.

✓
m

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V52.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 10:50
Operator : LIMS import
Sample : CCV0526R-V1
Misc : RearSamp
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 11:27:32 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V73.D
 Signal(s) : FID2B.ch
 Acq On : 27 May 2022 9:43
 Operator : LIMS import
 Sample : CCV0526R-V3
 Misc : RearSamp
 ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 27 10:19:43 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.514	1879608	1.060 PPM
Spiked Amount 50.000		Recovery =	2.12%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	28532174	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	217404196	92.354 PPM
5) H Diesel Fuel #2 (05-1...	14.000	218464229	99.293 PPM
6) H Oil (05-19-21)	22.000	45063109	13.361 PPM
7) H Oil Acid Clean (05-21...	22.000	45063109	14.223 PPM
8) H Diesel Fuel #2 Combo ...	14.000	214159984	100.355 PPM
9) H Oil Combo (05-19-21)	22.000	33753852	6.679 PPM
10) H Oil Acid Clean Combo ...	22.000	33753852	8.106 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	217331530	99.638 PPM
12) H HAWAII 8015M Oil (05...	22.000	29354706	4.473 PPM
13) H Mineral Oil (05-19-21)	16.000	142544743	60.813 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	218464229	86.418 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	214159984	87.632 PPM
16) H Hydraulic Oil (02-25...	14.000	231255253	99.332 PPM
17) H Hydraulic Oil ACU (04...	14.000	231255253	80.656 PPM
18) H Mineral Oil Combo (05...	16.000	138862057	62.125 PPM
19) H Oil Acid Clean MO Com...	22.000	28914754	5.964 PPM
20) H Oil MO Combo (05-19-21)	22.000	28914754	4.171 PPM
21) H JP-4 (03-24-21)	8.000	153235190	NoCal PPM
22) H JP-5 (03-25-21)	8.000	141067927	NoCal PPM
23) H JP-8 (03-26-21)	8.000	188612004	NoCal PPM

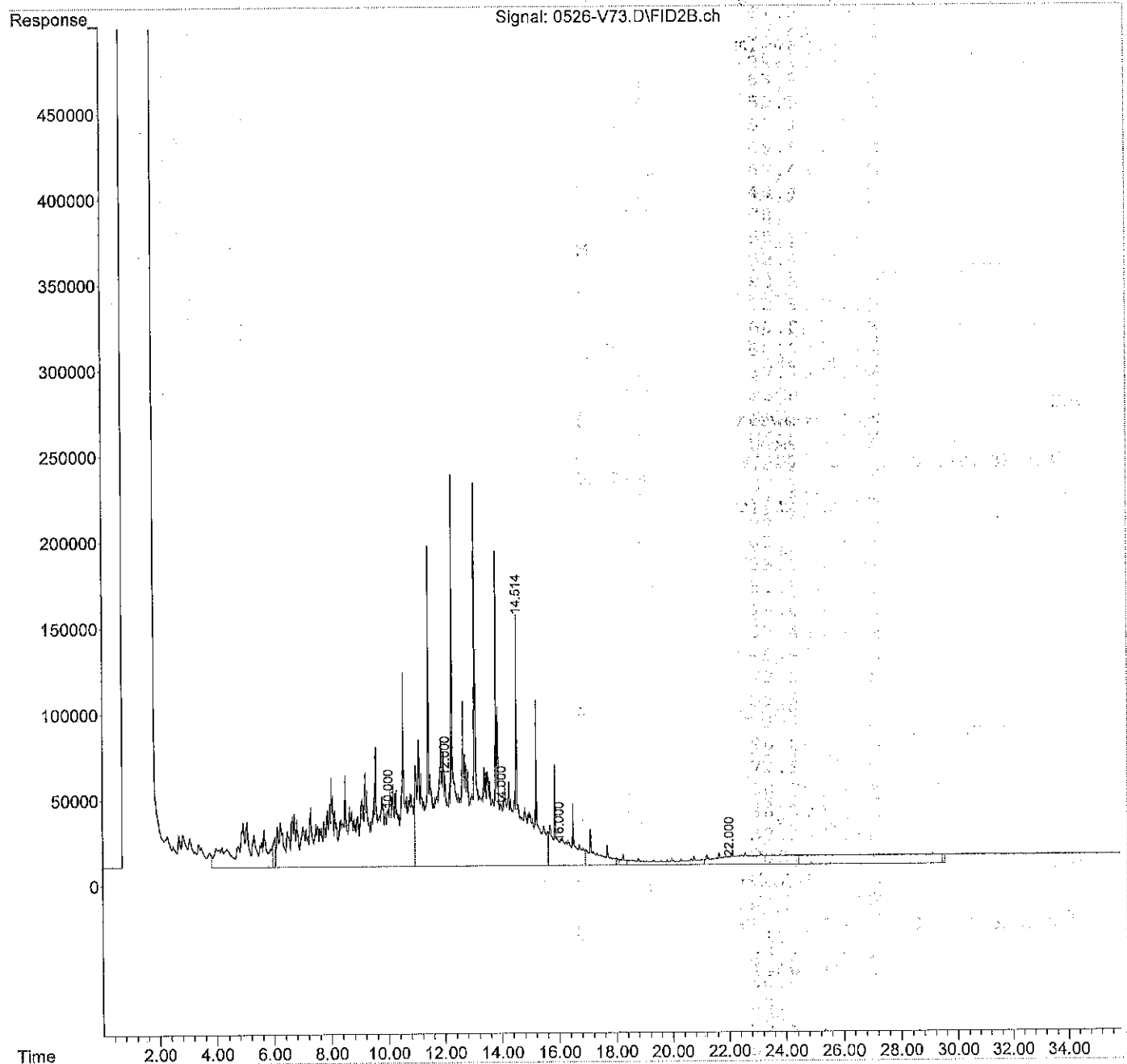
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V73.D
Signal(s) : FID2B.ch
Acq On : 27 May 2022 9:43
Operator : LIMS import
Sample : CCV0526R-V3
Misc : RearSamp
ALS Vial : 73 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:19:43 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
 Data File : 0526-V63.D
 Signal(s) : FID2B.ch
 Acq On : 26 May 2022 20:32
 Operator : LIMS import
 Sample : CCV0526R-V2
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: May 26 21:09:37 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
 Quant Title : GCTPH
 QLast Update : Fri Apr 15 08:41:04 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.516	1848902	1.048 PPM
Spiked Amount	50.000	Recovery =	2.10%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	27863305	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	214921424	91.189 PPM
5) H Diesel Fuel #2 (05-1...	14.000	215979316	98.113 PPM
6) H Oil (05-19-21)	22.000	41268545	10.944 PPM
7) H Oil Acid Clean (05-21...	22.000	41268545	11.965 PPM
8) H Diesel Fuel #2 Combo ...	14.000	211779113	99.193 PPM
9) H Oil Combo (05-19-21)	22.000	30151333	4.349 PPM
10) H Oil Acid Clean Combo ...	22.000	30151333	5.930 PPM
11) H HAWAII 8015M DF2 (05-...	12.000	214866513	98.458 PPM
12) H HAWAII 8015M Oil (05-...	22.000	25881505	2.149 PPM
13) H Mineral Oil (05-19-21)	16.000	140691155	60.002 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	215979316	85.393 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	211779113	86.621 PPM
16) H Hydraulic Oil (02-25...	14.000	227009582	97.431 PPM
17) H Hydraulic Oil ACU (04...	14.000	227009582	78.923 PPM
18) H Mineral Oil Combo (05...	16.000	137380340	61.460 PPM
19) H Oil Acid Clean MO Com...	22.000	25438223	3.770 PPM
20) H Oil MO Combo (05-19-21)	22.000	25438223	1.821 PPM
21) H JP-4 (03-24-21)	8.000	151094646	NoCal PPM
22) H JP-5 (03-25-21)	8.000	139339246	NoCal PPM
23) H JP-8 (03-26-21)	8.000	186471122	NoCal PPM

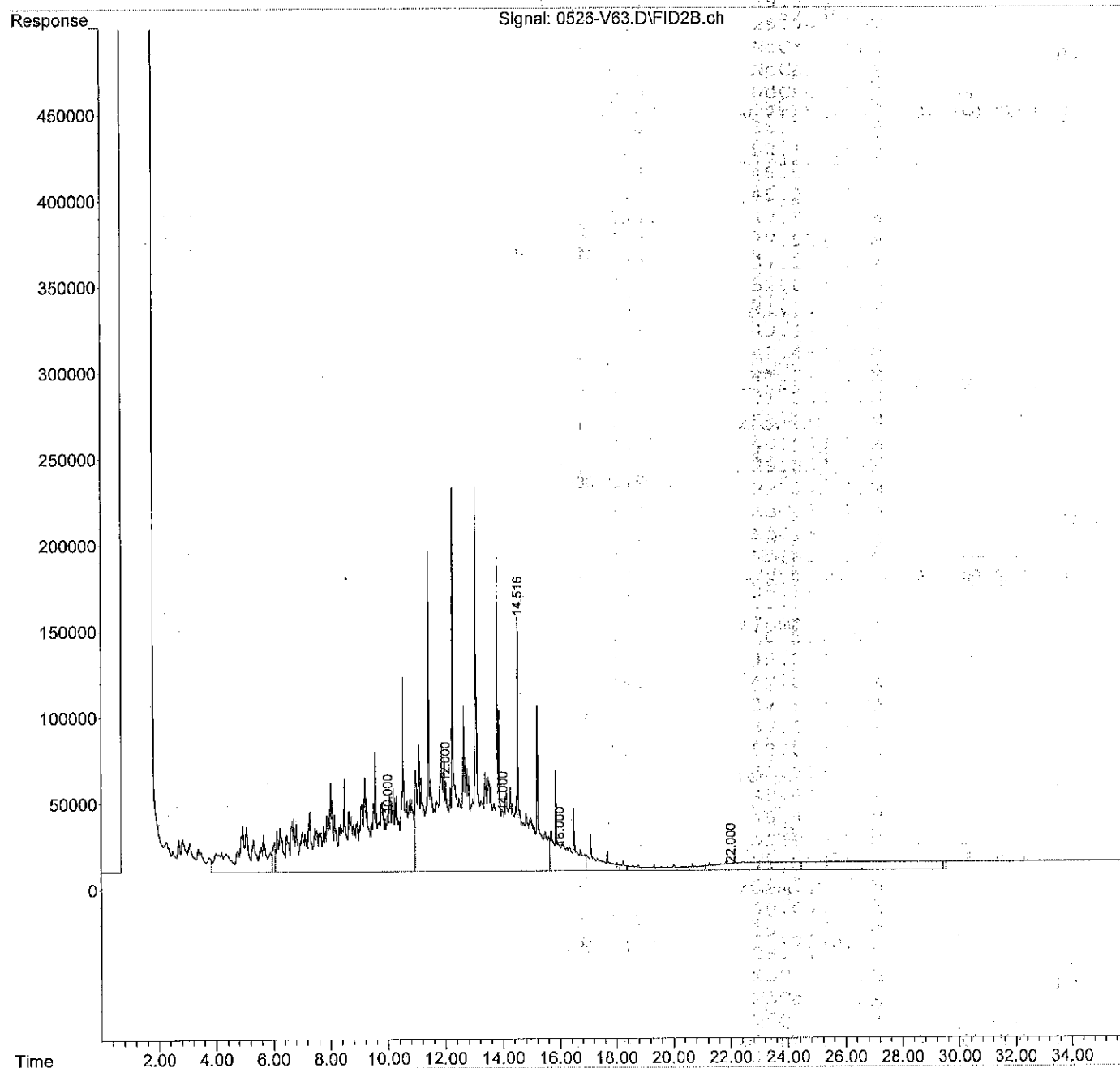
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220526.SEC\
Data File : 0526-V63.D
Signal(s) : FID2B.ch
Acq On : 26 May 2022 20:32
Operator : LIMS import
Sample : CCV0526R-V2
Misc : RearSamp
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 21:09:37 2022
Quant Method : C:\MSDCHEM\2\METHODS\V210519R.M
Quant Title : GCTPH
QLast Update : Fri Apr 15 08:41:04 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Volatiles Organics
EPA 8260D Data

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523011.D
 Acq On : 23 May 2022 03:09 pm
 Operator :
 Sample : 05-223-01g
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

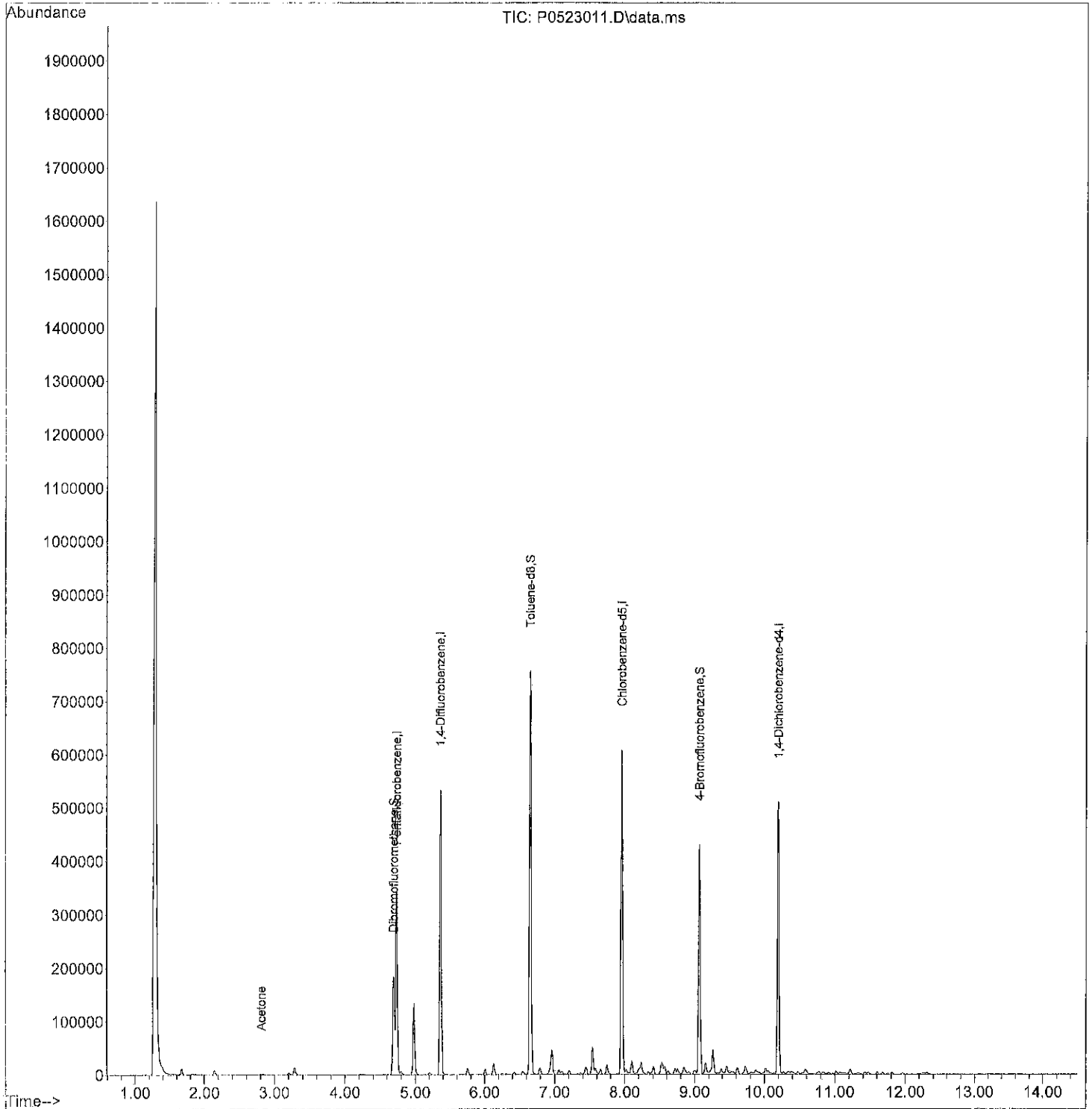
Quant Time: May 24 09:56:03 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

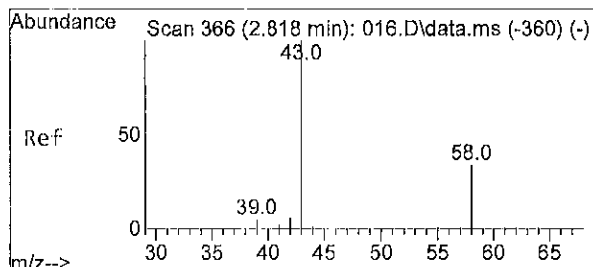
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.739	168	195583	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	374359	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	325118	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	136368	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	104877	10.78	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	107.80%		
37) Toluene-d8	6.653	98	463240	10.09	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	100.90%		
55) 4-Bromofluorobenzene	9.073	95	149573	10.13	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	101.30%		
Target Compounds						
9) Acetone	2.818	43	1289	1.60	ppb	# 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523011.D
Acq On : 23 May 2022 03:09 pm
Operator :
Sample : 05-223-01g
Misc :
ALS Vial : 11 Sample Multiplier: 1

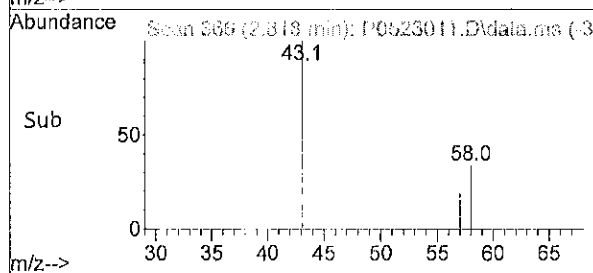
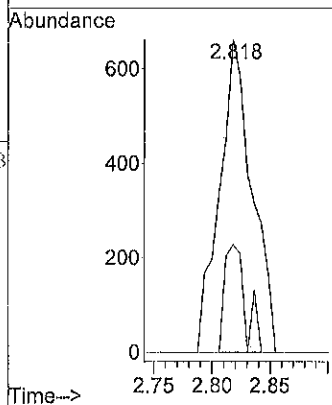
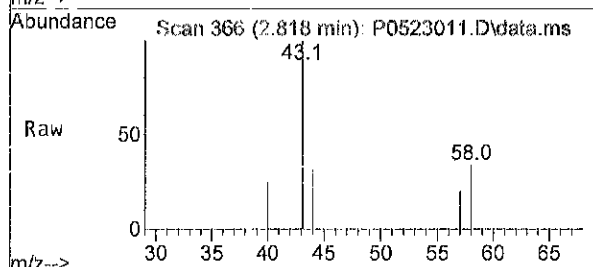
Quant Time: May 24 09:56:03 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration





#9
 Acetone
 Concen: 1.60 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.000 min
 Lab File: P0523011.D
 Acq: 23 May 2022 03:09 pm

Tgt Ion: 43 Resp: 1289
 Ion Ratio Lower Upper
 43 100
 58 21.9 23.0 34.4#



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523012.D
 Acq On : 23 May 2022 03:36 pm
 Operator :
 Sample : 05-223-02g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

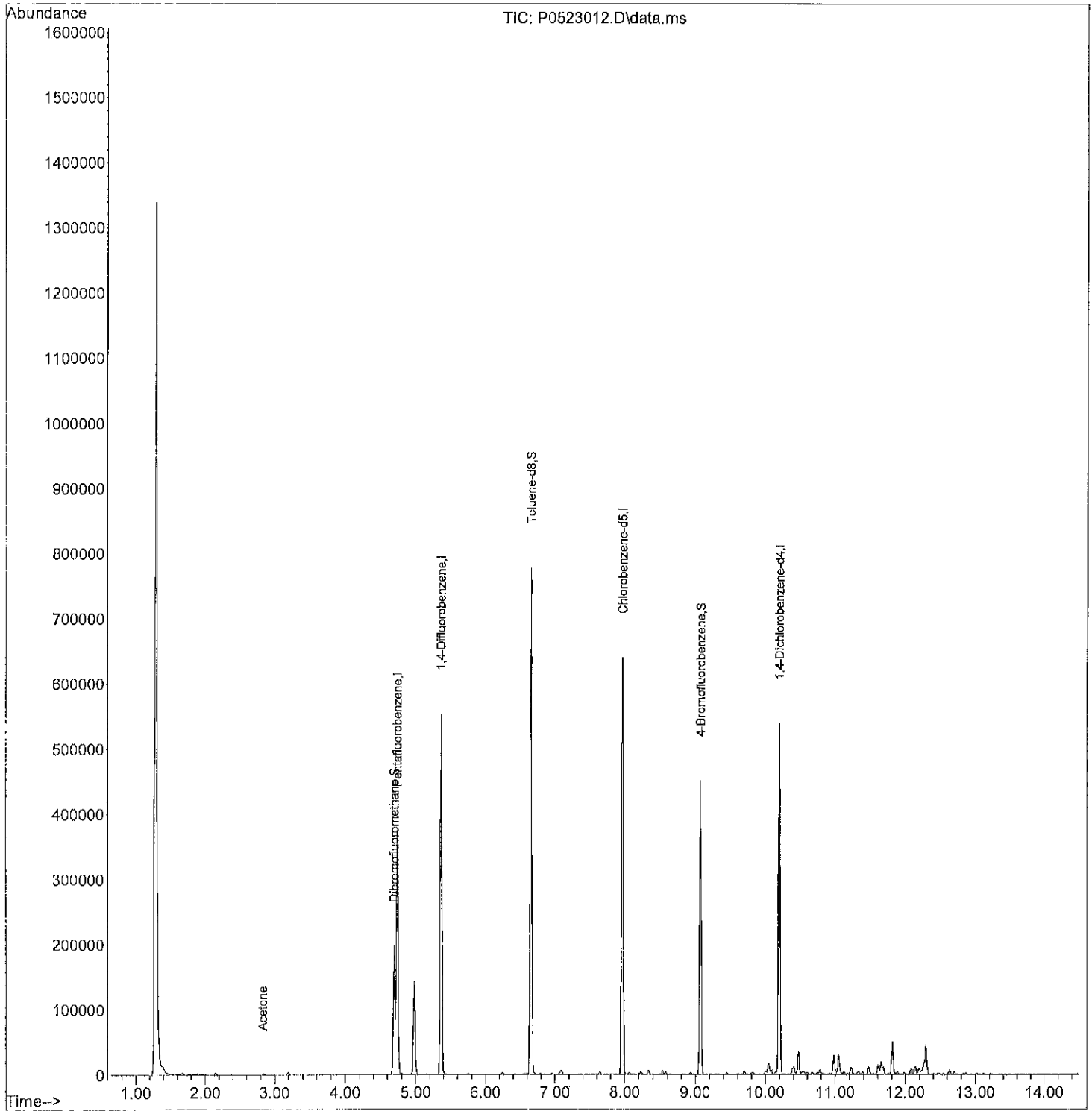
Quant Time: May 24 09:56:10 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

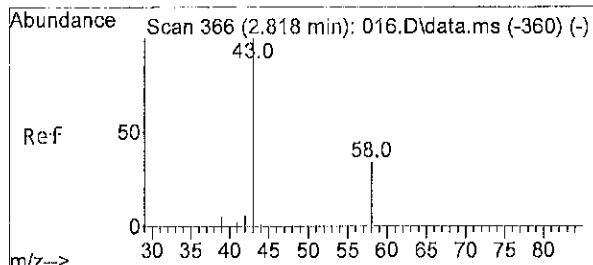
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	207129	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	394847	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	341719	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	143324	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	110473	10.72	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	107.20%	
37) Toluene-d8	6.653	98	483972	9.99	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.90%	
55) 4-Bromofluorobenzene	9.073	95	154883	9.98	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	99.80%	
Target Compounds						
9) Acetone	2.830	43	834	0.97	ppb	# 75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

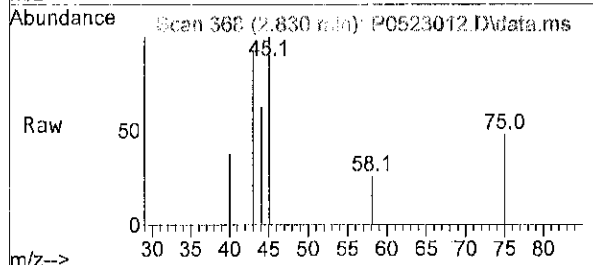
Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523012.D
Acq On : 23 May 2022 03:36 pm
Operator :
Sample : 05-223-02g
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 24 09:56:10 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration

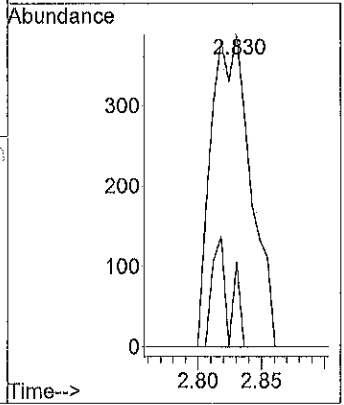
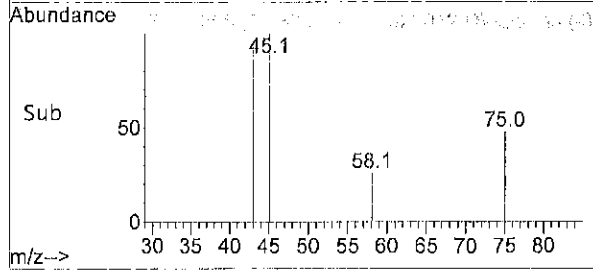




#9
 Acetone
 Concen: 0.97 ppb
 RT: 2.830 min Scan# 368
 Delta R.T. 0.012 min
 Lab File: P0523012.D
 Acq: 23 May 2022 03:36 pm



Tgt Ion: 43 Resp: 834
 Ion Ratio Lower Upper
 43 100
 58 15.3 23.0 34.4#



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523013.D
 Acq On : 23 May 2022 04:02 pm
 Operator :
 Sample : 05-223-03g
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 24 09:56:17 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

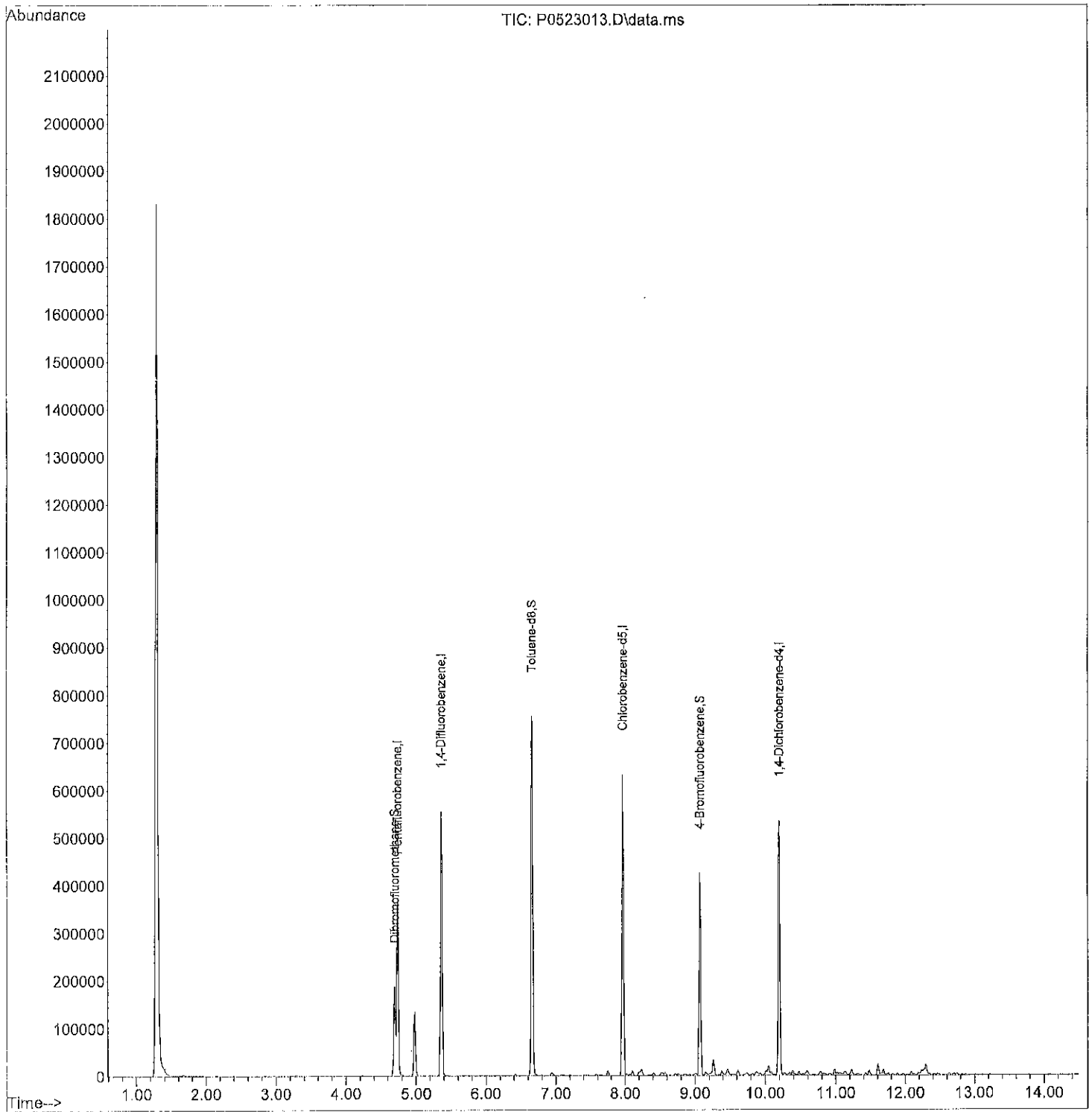
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	203610	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	390931	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	335896	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	141457	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	105745	10.44	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	104.40%	
37) Toluene-d8	6.653	98	467728	9.75	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	97.50%	
55) 4-Bromofluorobenzene	9.073	95	150282	9.85	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	98.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523013.D
Acq On : 23 May 2022 04:02 pm
Operator :
Sample : 05-223-03g
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 24 09:56:17 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523014.D
 Acq On : 23 May 2022 04:29 pm
 Operator :
 Sample : 05-223-04g
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 24 09:56:24 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

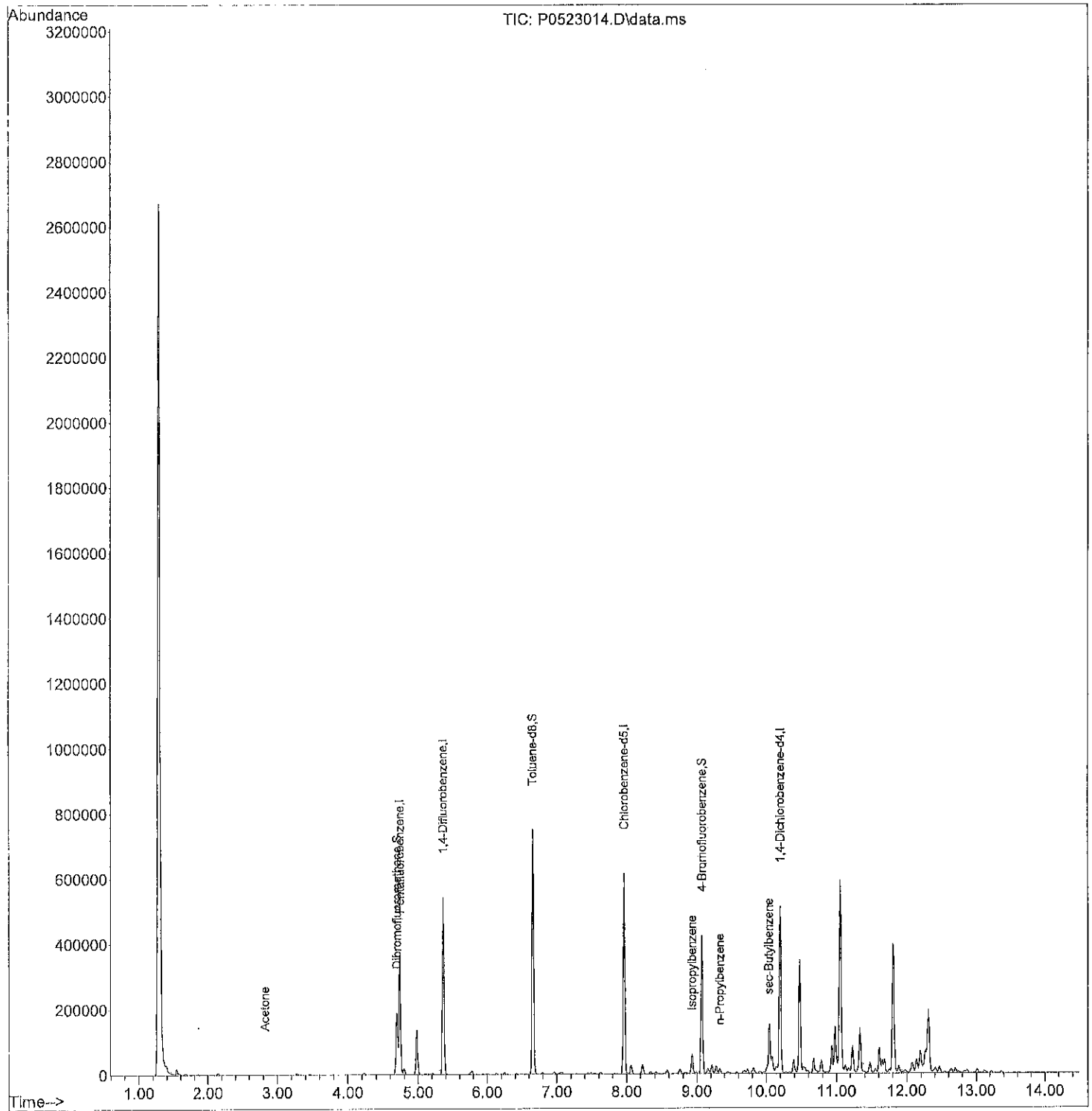
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

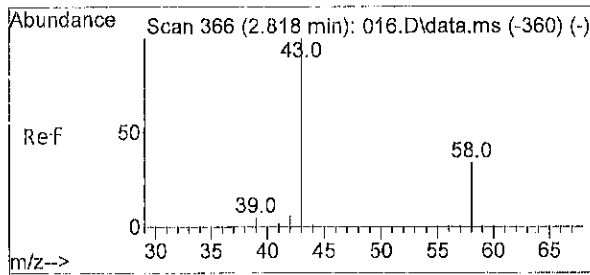
Internal Standards						
1) Pentafluorobenzene	4.739	168	197110	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	380137	10.00	ppb	0.00
39) Chlorobenzene-d5	7.964	117	326282	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	138872	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	104431	10.65	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	106.50%	
37) Toluene-d8	6.653	98	465661	9.99	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.90%	
55) 4-Bromofluorobenzene	9.073	95	149737	10.10	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	101.00%	
Target Compounds						
						Qvalue
9) Acetone	2.824	43	766	0.94	ppb	# 68
54) Isopropylbenzene	8.933	105	38426	0.86	ppb	98
60) n-Propylbenzene	9.329	91	10422	0.20	ppb	96
66) sec-Butylbenzene	10.036	105	16391	0.40	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523014.D
 Acq On : 23 May 2022 04:29 pm
 Operator :
 Sample : 05-223-04g
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

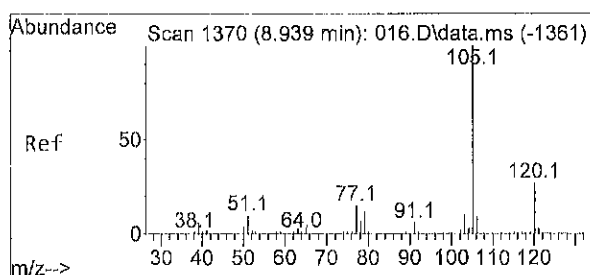
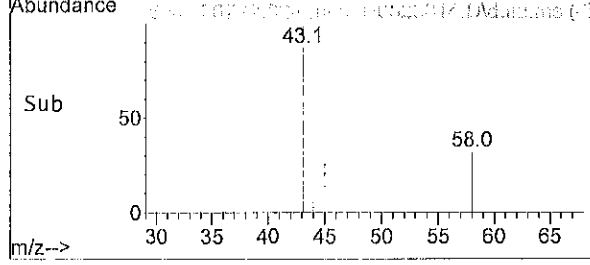
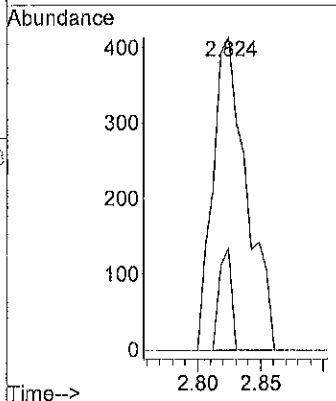
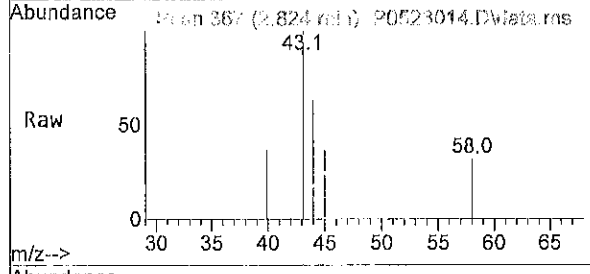
Quant Time: May 24 09:56:24 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration





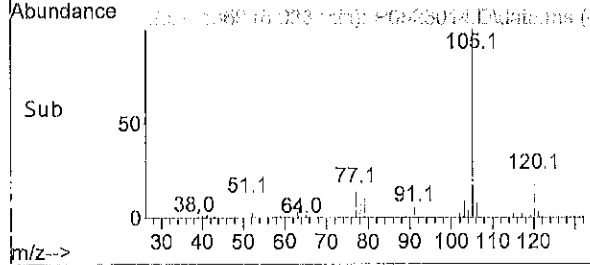
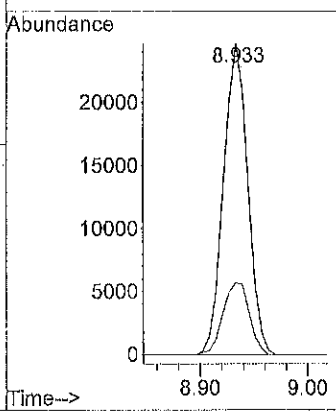
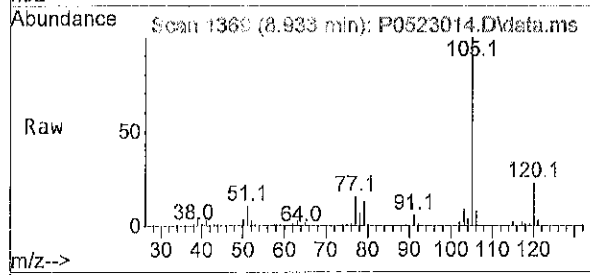
#9
 Acetone
 Concen: 0.94 ppb
 RT: 2.824 min Scan# 367
 Delta R.T. 0.006 min
 Lab File: P0523014.D
 Acq: 23 May 2022 04:29 pm

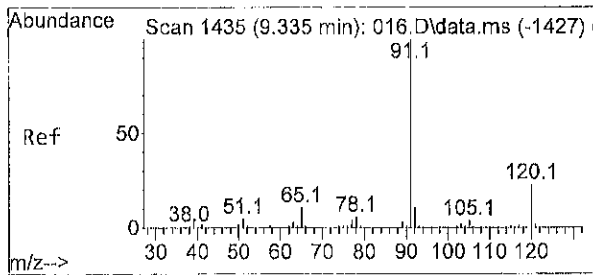
Tgt Ion: 43 Resp: 766
 Ion Ratio Lower Upper
 43 100
 58 11.7 23.0 34.4#



#54
 Isopropylbenzene
 Concen: 0.86 ppb
 RT: 8.933 min Scan# 1369
 Delta R.T. -0.000 min
 Lab File: P0523014.D
 Acq: 23 May 2022 04:29 pm

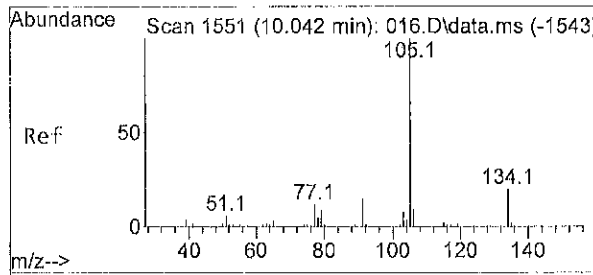
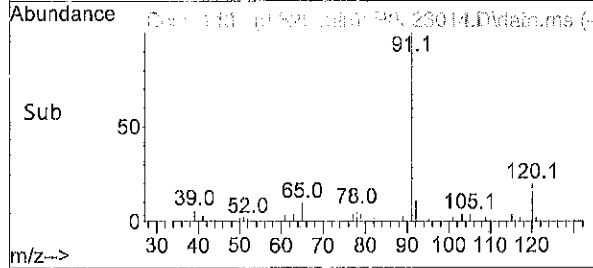
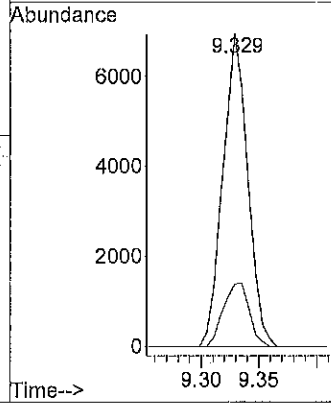
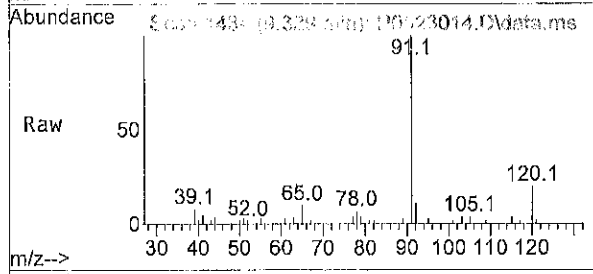
Tgt Ion: 105 Resp: 38426
 Ion Ratio Lower Upper
 105 100
 120 25.0 20.6 31.0





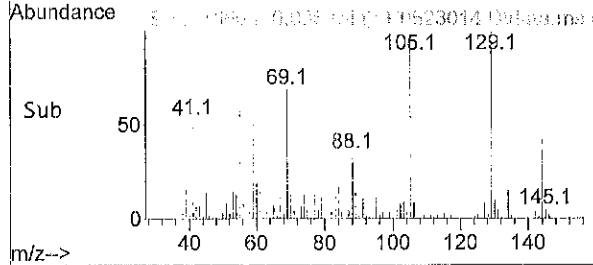
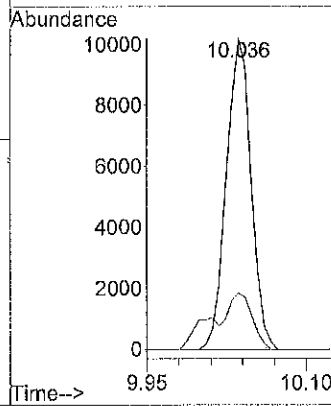
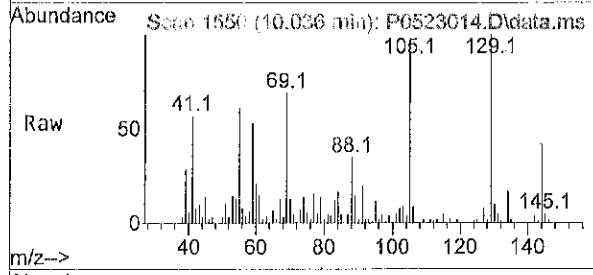
#60
 n-Propylbenzene
 Concen: 0.20 ppb
 RT: 9.329 min Scan# 1434
 Delta R.T. 0.000 min
 Lab File: P0523014.D
 Acq: 23 May 2022 04:29 pm

Tgt Ion: 91 Resp: 10422
 Ion Ratio Lower Upper
 91 100
 120 21.0 18.2 27.2



#66
 sec-Butylbenzene
 Concen: 0.40 ppb
 RT: 10.036 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: P0523014.D
 Acq: 23 May 2022 04:29 pm

Tgt Ion: 105 Resp: 16391
 Ion Ratio Lower Upper
 105 100
 134 17.9 15.5 23.3



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523015.D
 Acq On : 23 May 2022 04:55 pm
 Operator :
 Sample : 05-223-05g
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

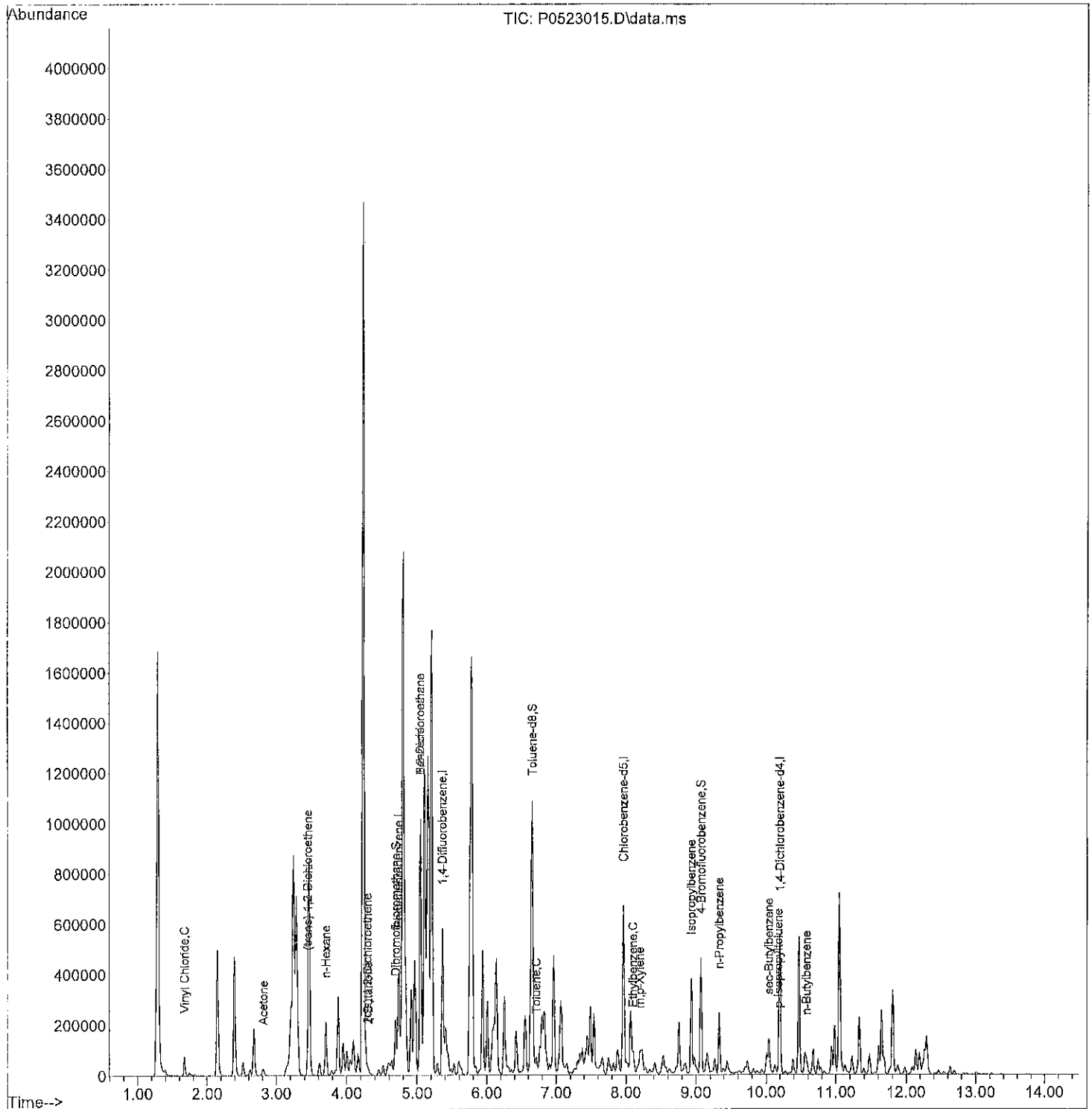
Quant Time: May 24 09:56:31 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

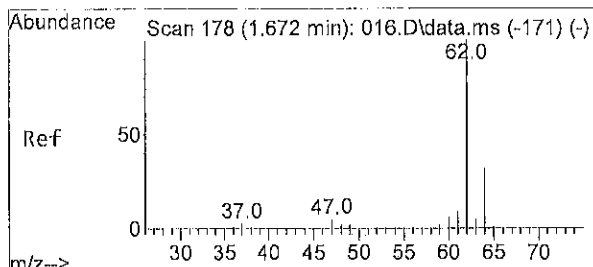
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.739	168	221619	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	417008	10.00	ppb	0.00
39) Chlorobenzene-d5	7.964	117	359027	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	146290	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	114697	10.40	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	104.00%		
37) Toluene-d8	6.659	98	518634	10.14	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	101.40%		
55) 4-Bromofluorobenzene	9.073	95	162989	9.99	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	99.90%		
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.672	62	7042	0.61	ppb	93
9) Acetone	2.812	43	17018	18.59	ppb #	84
13) (trans) 1,2-Dichloroet...	3.446	61	4972	0.32	ppb #	66
15) n-Hexane	3.702	57	92990	8.40	ppb	96
19) (cis) 1,2-Dichloroethene	4.294	61	4766	0.28	ppb	98
20) 2-Butanone	4.306	43	10908	7.29	ppb #	74
27) Benzene	5.049	78	777191	19.03	ppb	100
28) 1,2-Dichloroethane	5.049	62	8547	0.86	ppb	91
38) Toluene	6.714	91	27399	0.57	ppb	99
49) Ethylbenzene	8.098	91	31864	0.61	ppb	97
50) m,p-Xylene	8.201	91	31767	0.78	ppb	97
54) Isopropylbenzene	8.933	105	241985	4.93	ppb	100
60) n-Propylbenzene	9.329	91	179736	3.33	ppb	100
66) sec-Butylbenzene	10.036	105	84077	1.93	ppb	100
68) p-Isopropyltoluene	10.177	119	9774	0.27	ppb	98
71) n-Butylbenzene	10.579	91	29783	0.94	ppb #	31

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523015.D
 Acq On : 23 May 2022 04:55 pm
 Operator :
 Sample : 05-223-05g
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

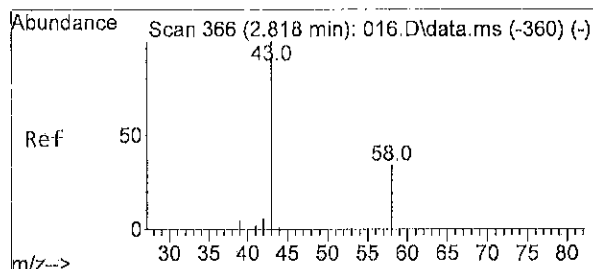
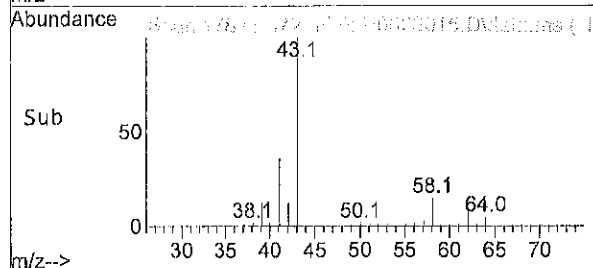
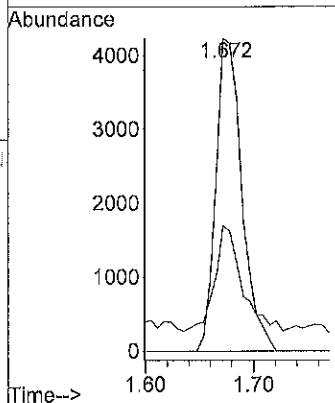
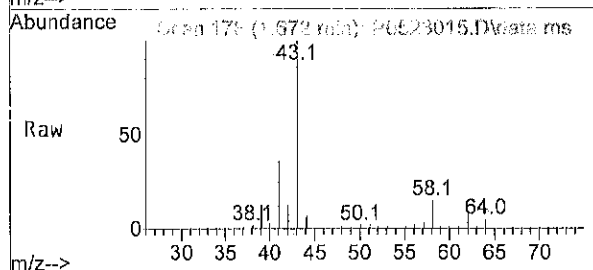
Quant Time: May 24 09:56:31 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration





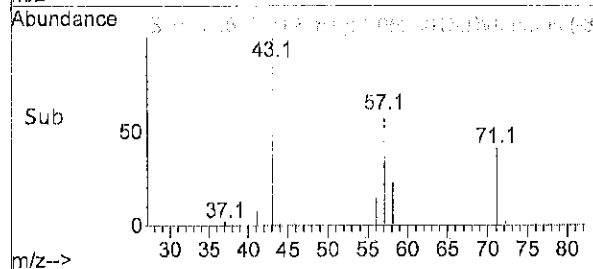
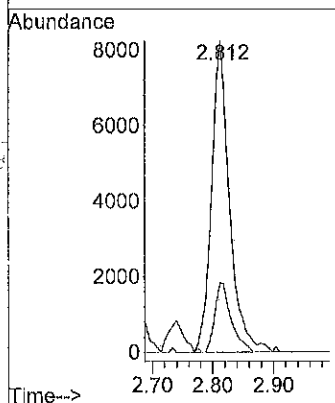
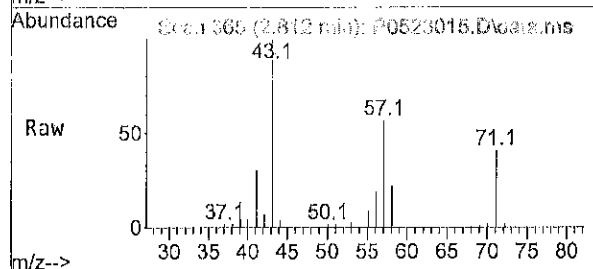
#4
 Vinyl Chloride
 Concen: 0.61 ppb
 RT: 1.672 min Scan# 178
 Delta R.T. -0.006 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

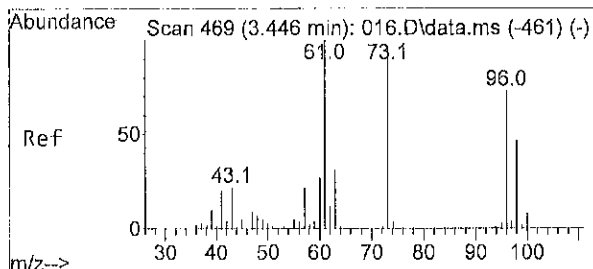
Tgt Ion: 62 Resp: 7042
 Ion Ratio Lower Upper
 62 100
 64 34.9 24.8 37.2



#9
 Acetone
 Concen: 18.59 ppb
 RT: 2.812 min Scan# 365
 Delta R.T. -0.006 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

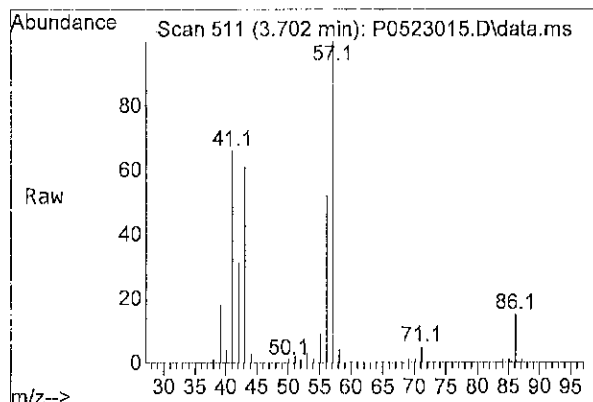
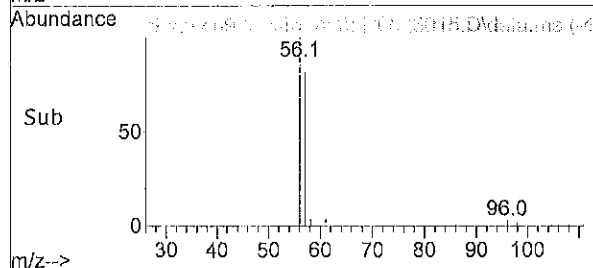
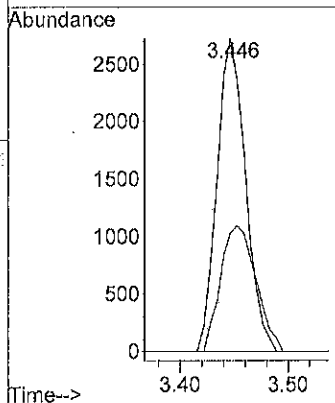
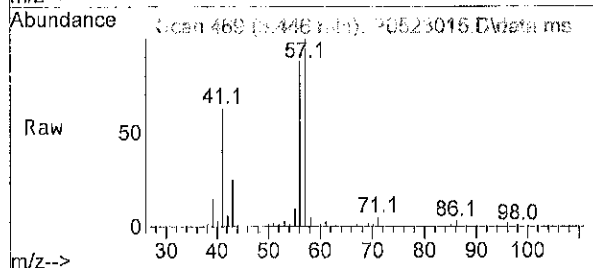
Tgt Ion: 43 Resp: 17018
 Ion Ratio Lower Upper
 43 100
 58 20.3 23.0 34.4#





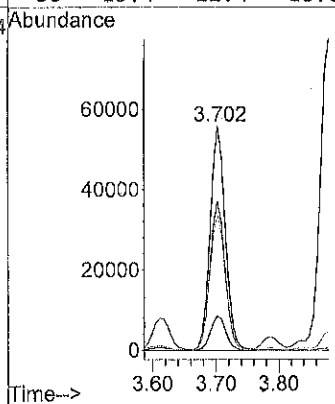
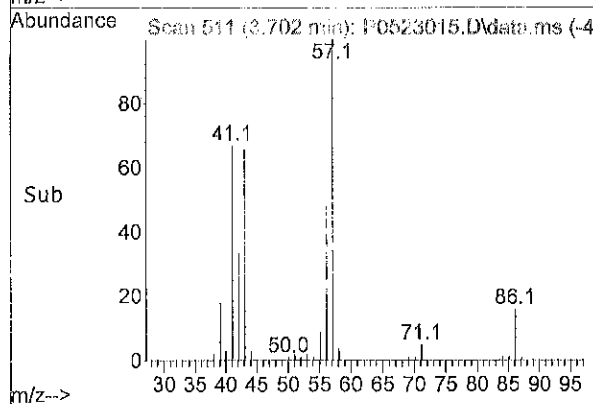
#13
 (trans) 1,2-Dichloroethene
 Concen: 0.32 ppb
 RT: 3.446 min Scan# 469
 Delta R.T. 0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

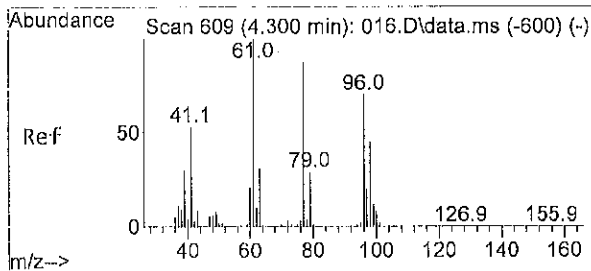
Tgt Ion: 61 Resp: 4972
 Ion Ratio Lower Upper
 61 100
 63 50.0 24.9 37.3#



#15
 n-Hexane
 Concen: 8.40 ppb
 RT: 3.702 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

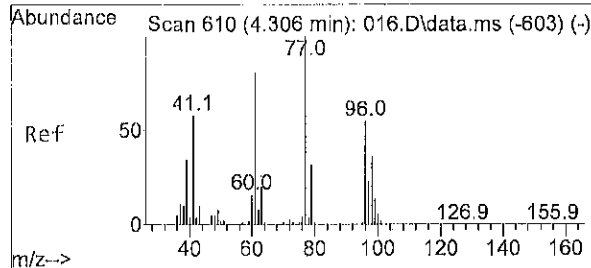
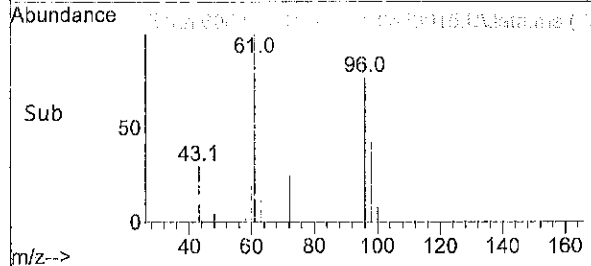
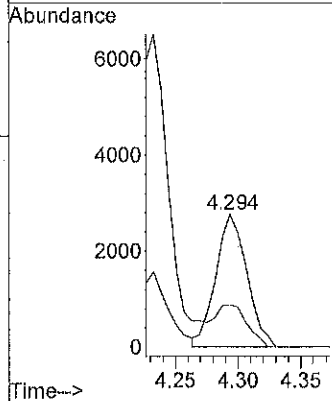
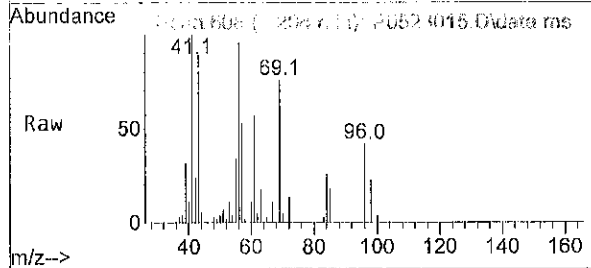
Tgt Ion: 57 Resp: 92990
 Ion Ratio Lower Upper
 57 100
 41 65.5 57.5 86.3
 43 61.1 49.2 73.8
 86 15.4 12.4 18.6





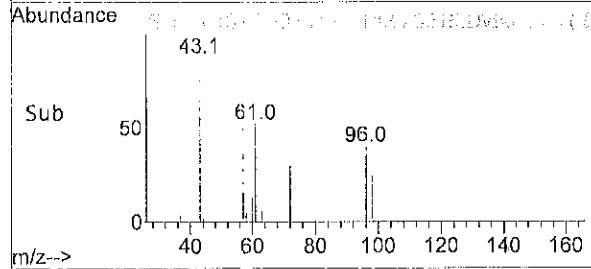
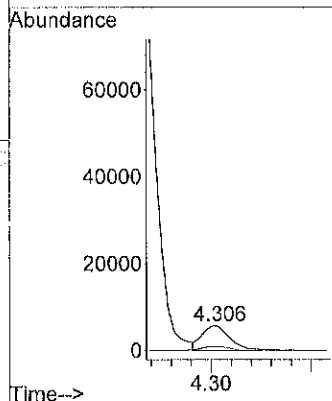
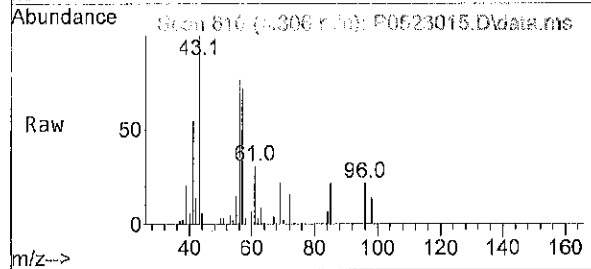
#19
 (cis) 1,2-Dichloroethene
 Concen: 0.28 ppb
 RT: 4.294 min Scan# 608
 Delta R.T. 0.001 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

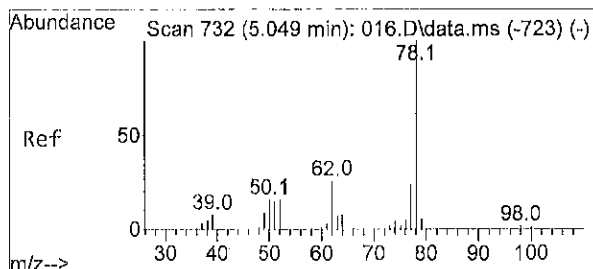
Tgt Ion: 61 Resp: 4766
 Ion Ratio Lower Upper
 61 100
 63 32.1 25.0 37.4



#20
 2-Butanone
 Concen: 7.29 ppb
 RT: 4.306 min Scan# 610
 Delta R.T. 0.006 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

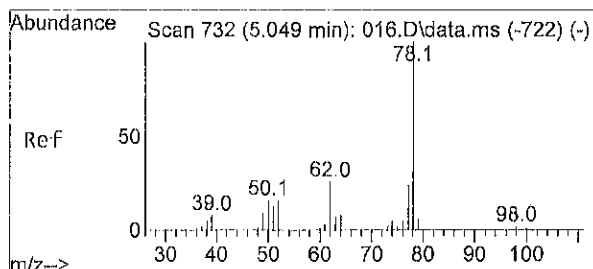
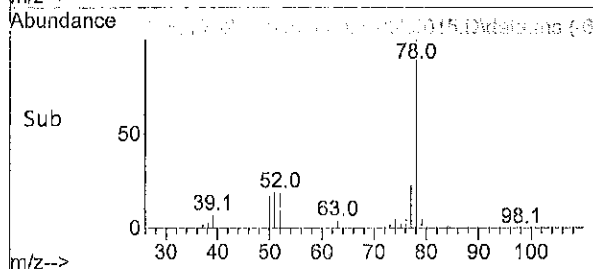
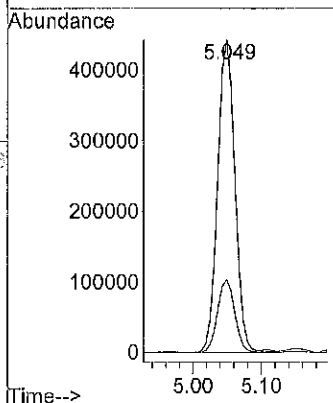
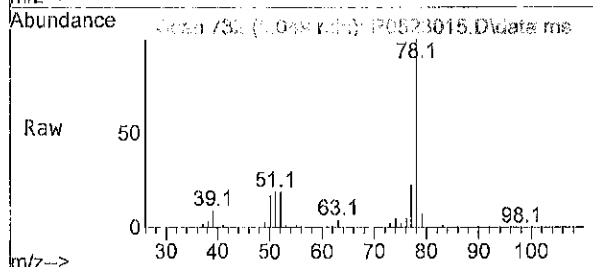
Tgt Ion: 43 Resp: 10908
 Ion Ratio Lower Upper
 43 100
 72 13.8 21.8 32.8#





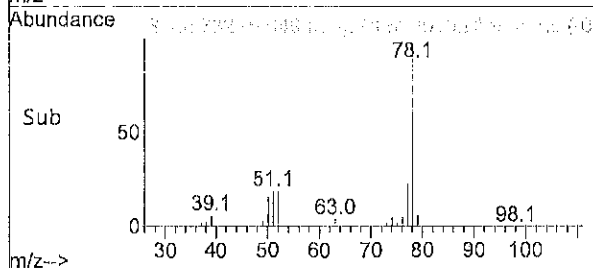
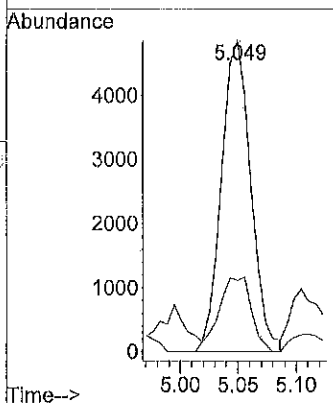
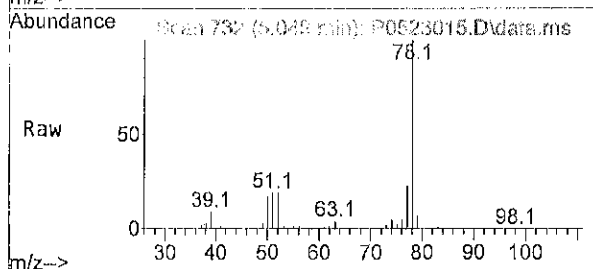
#27
Benzene
Concen: 19.03 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.000 min
Lab File: P0523015.D
Acq: 23 May 2022 04:55 pm

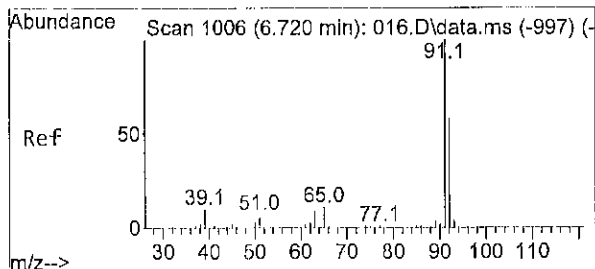
Tgt Ion: 78 Resp: 777191
Ion Ratio Lower Upper
78 100
77 23.4 18.7 28.1



#28
1,2-Dichloroethane
Concen: 0.86 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.006 min
Lab File: P0523015.D
Acq: 23 May 2022 04:55 pm

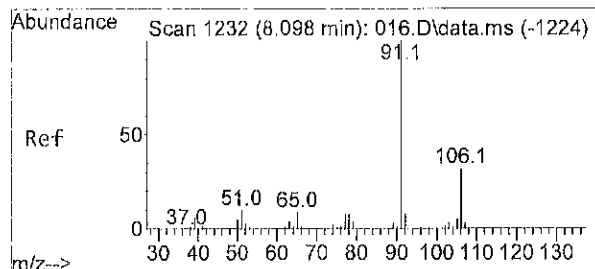
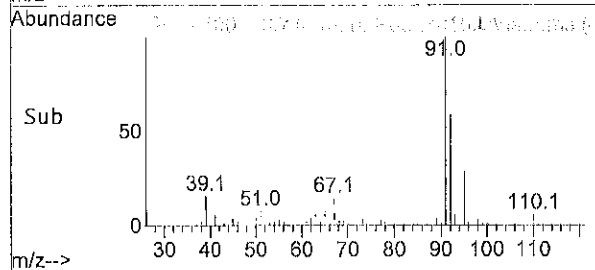
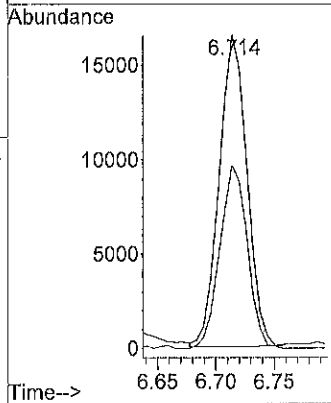
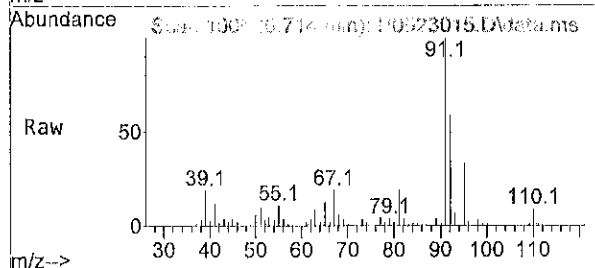
Tgt Ion: 62 Resp: 8547
Ion Ratio Lower Upper
62 100
64 26.0 25.0 37.4





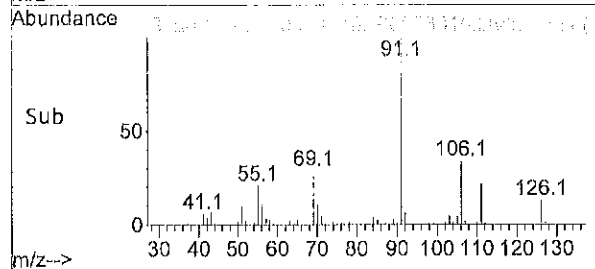
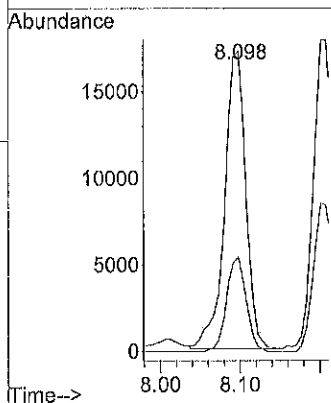
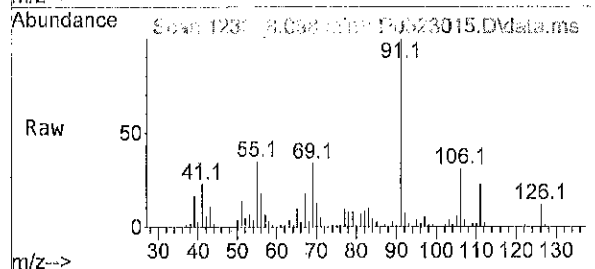
#38
 Toluene
 Concen: 0.57 ppb
 RT: 6.714 min Scan# 1005
 Delta R.T. -0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

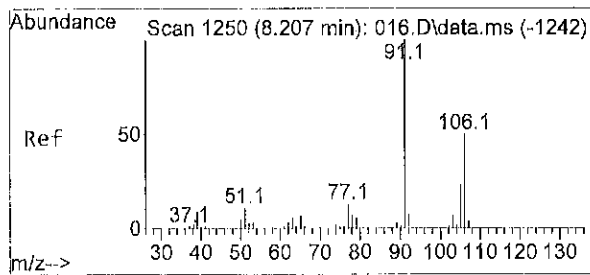
Tgt Ion: 91 Resp: 27399
 Ion Ratio Lower Upper
 91 100
 92 58.0 46.8 70.2



#49
 Ethylbenzene
 Concen: 0.61 ppb
 RT: 8.098 min Scan# 1232
 Delta R.T. -0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

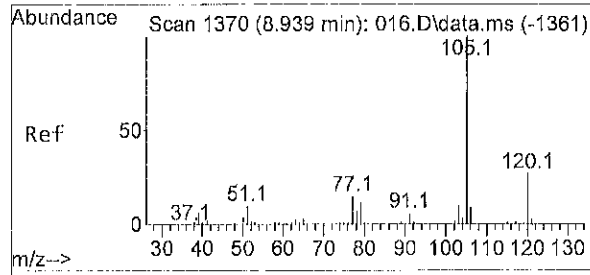
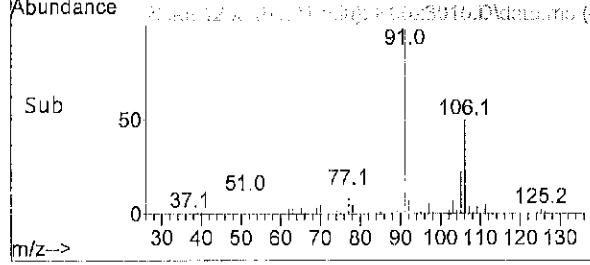
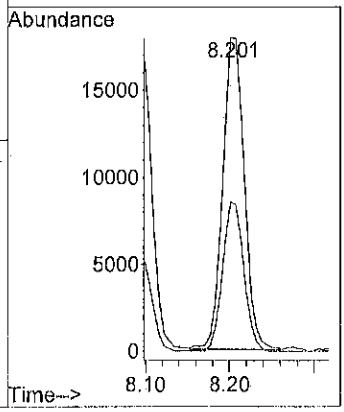
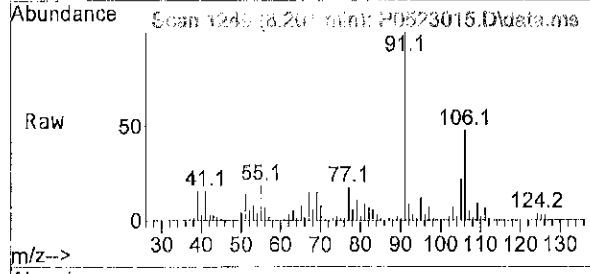
Tgt Ion: 91 Resp: 31864
 Ion Ratio Lower Upper
 91 100
 106 29.3 24.6 37.0





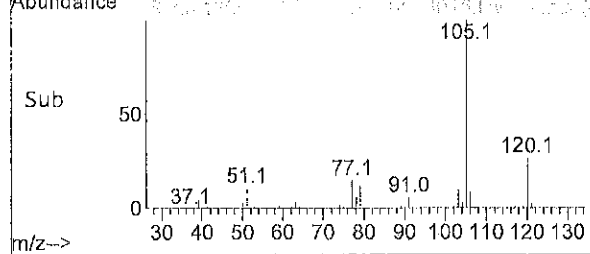
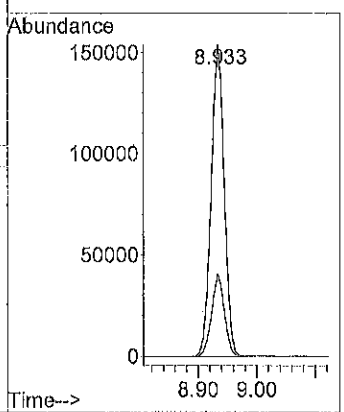
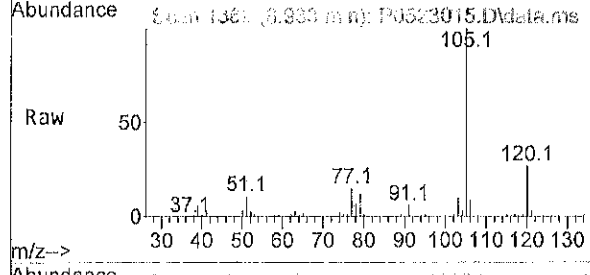
#50
 m,p-Xylene
 Concen: 0.78 ppb
 RT: 8.201 min Scan# 1249
 Delta R.T. -0.006 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

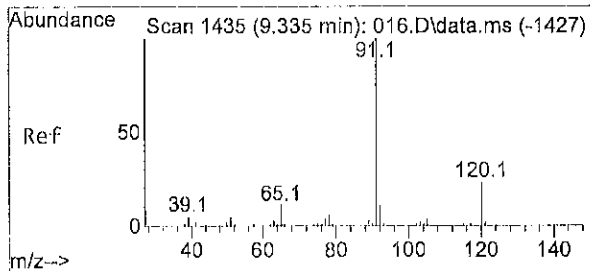
Tgt Ion:	Resp:	Lower	Upper
91	31767	100	
106	46.9	39.1	58.7



#54
 Isopropylbenzene
 Concen: 4.93 ppb
 RT: 8.933 min Scan# 1369
 Delta R.T. -0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

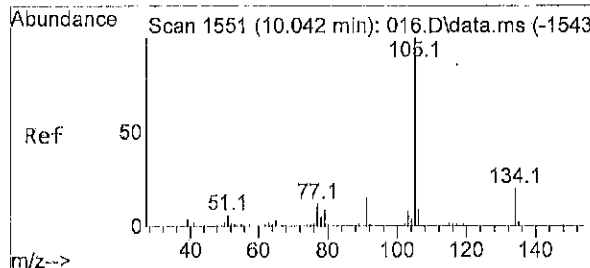
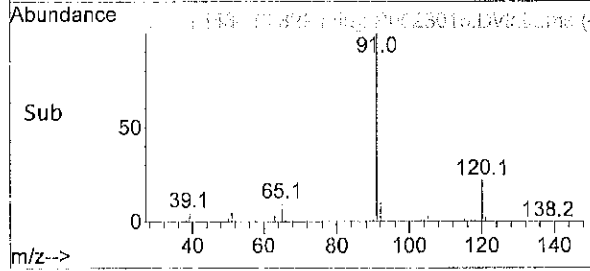
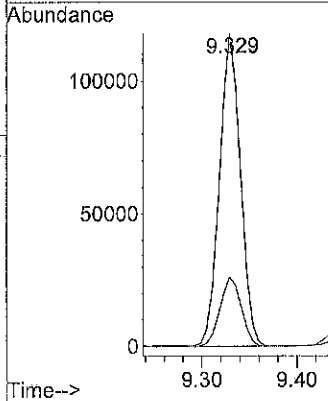
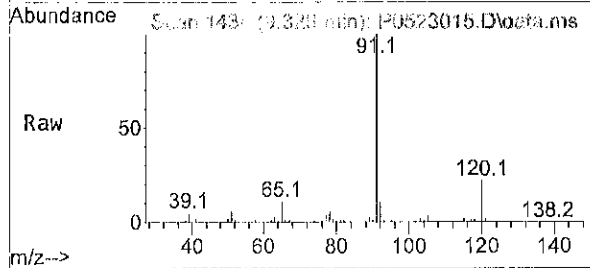
Tgt Ion:	Resp:	Lower	Upper
105	241985	100	
120	25.8	20.6	31.0





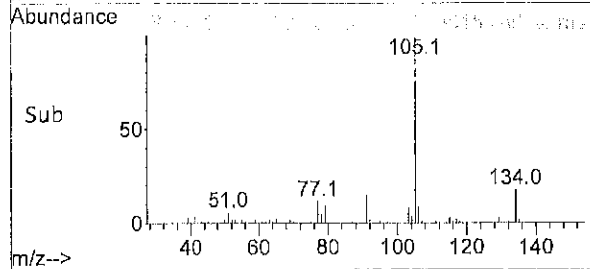
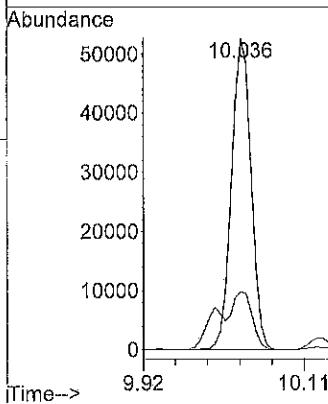
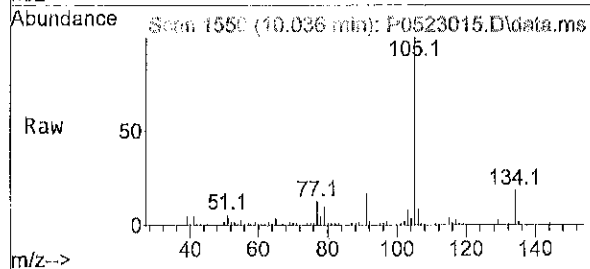
#60
 n-Propylbenzene
 Concen: 3.33 ppb
 RT: 9.329 min Scan# 1434
 Delta R.T. 0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

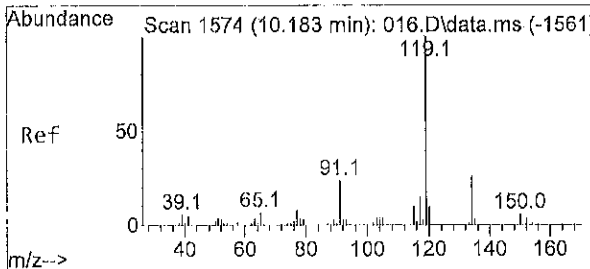
Tgt Ion: 91 Resp: 179736
 Ion Ratio Lower Upper
 91 100
 120 22.6 18.2 27.2



#66
 sec-Butylbenzene
 Concen: 1.93 ppb
 RT: 10.036 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

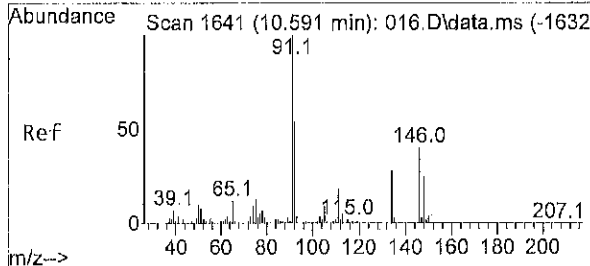
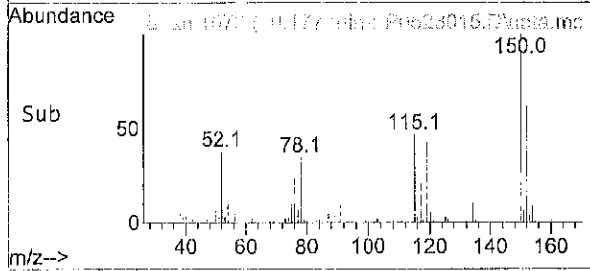
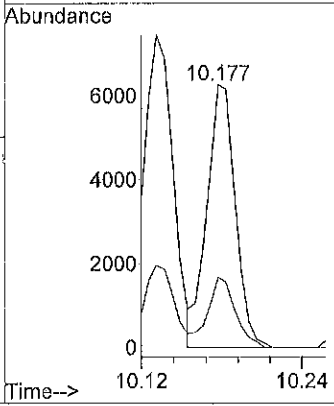
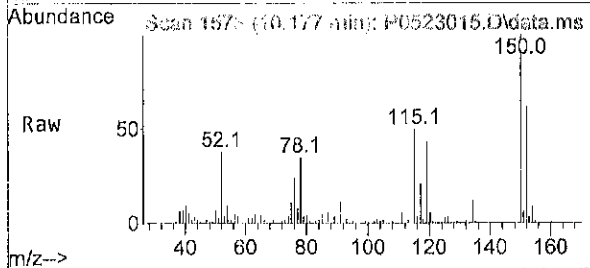
Tgt Ion: 105 Resp: 84077
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3





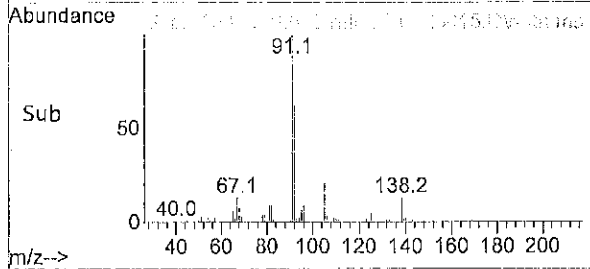
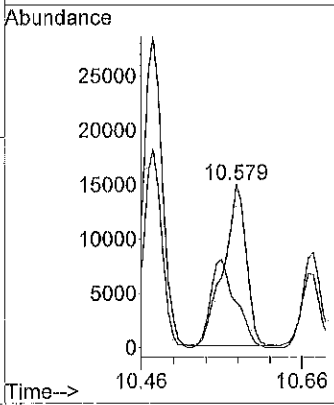
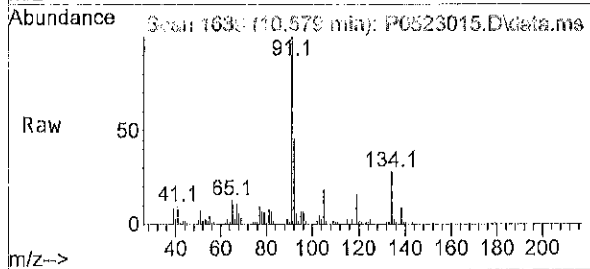
#68
 p-Isopropyltoluene
 Concen: 0.27 ppb
 RT: 10.177 min Scan# 1573
 Delta R.T. 0.001 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

Tgt Ion: 119 Resp: 9774
 Ion Ratio Lower Upper
 119 100
 134 26.2 20.2 30.2



#71
 n-Butylbenzene
 Concen: 0.94 ppb
 RT: 10.579 min Scan# 1639
 Delta R.T. -0.006 min
 Lab File: P0523015.D
 Acq: 23 May 2022 04:55 pm

Tgt Ion: 91 Resp: 29783
 Ion Ratio Lower Upper
 91 100
 134 60.2 20.2 30.4#



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523016.D
 Acq On : 23 May 2022 05:22 pm
 Operator :
 Sample : 05-223-06g
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

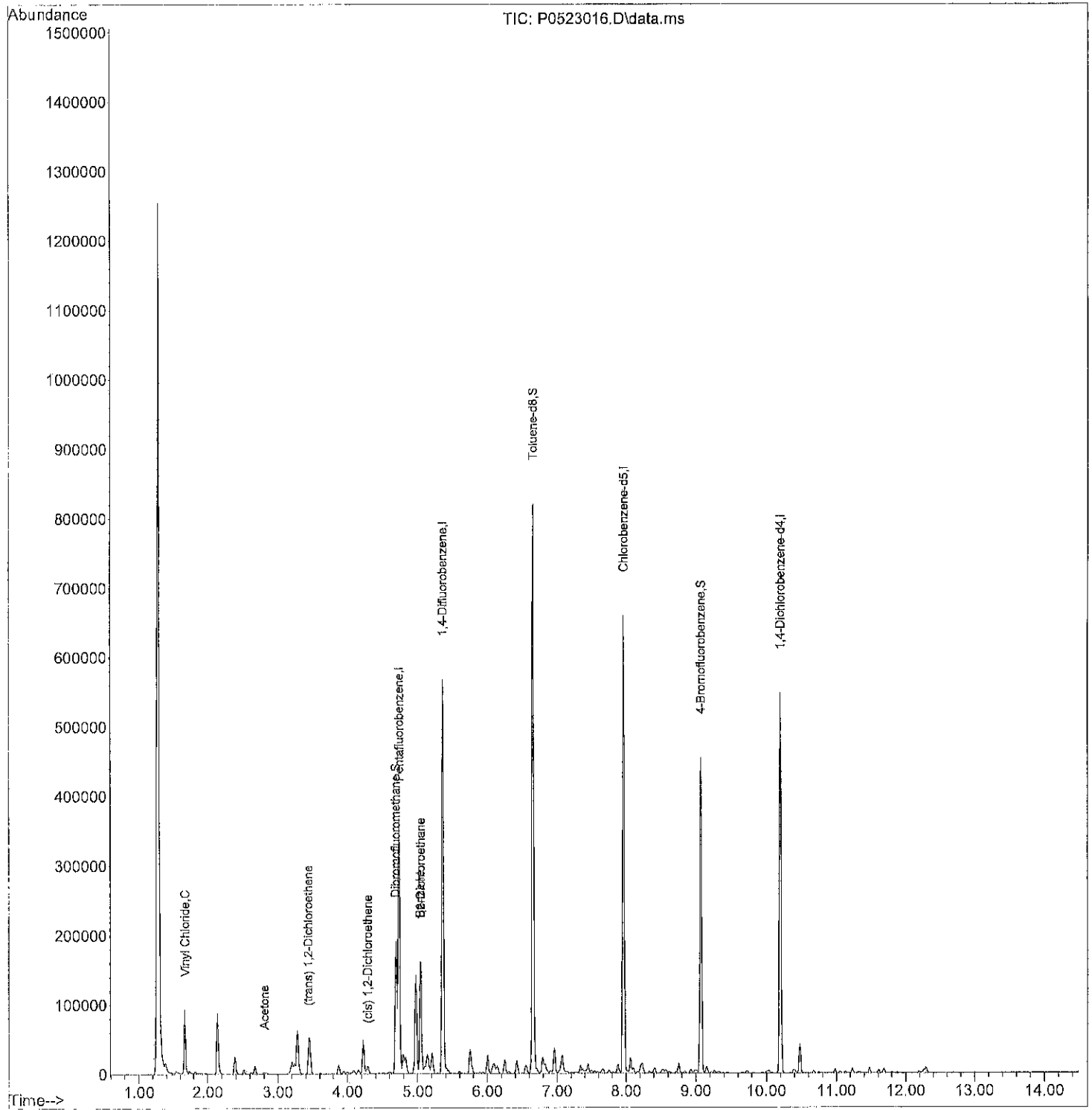
Quant Time: May 24 09:56:39 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

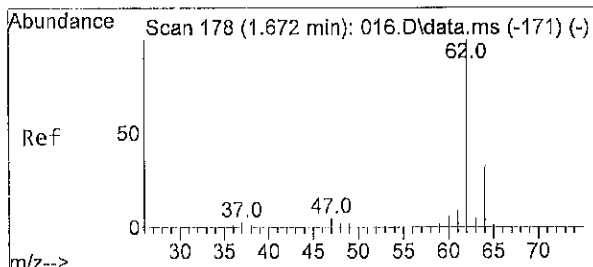
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	209991	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	407139	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	359683	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	143186	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	109105	10.44	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	104.40%	
37) Toluene-d8	6.653	98	500883	10.03	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	100.30%	
55) 4-Bromofluorobenzene	9.073	95	159319	9.75	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	97.50%	
Target Compounds						
4) Vinyl Chloride	1.672	62	9575	0.88	ppb	89
9) Acetone	2.812	43	1709	1.97	ppb #	66
13) (trans) 1,2-Dichloroet...	3.440	61	13038	0.90	ppb	99
19) (cis) 1,2-Dichloroethene	4.293	61	5798	0.36	ppb	99
27) Benzene	5.043	78	126281	3.26	ppb	99
28) 1,2-Dichloroethane	5.049	62	3471	0.37	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523016.D
Acq On : 23 May 2022 05:22 pm
Operator :
Sample : 05-223-06g
Misc :
ALS Vial : 16 Sample Multiplier: 1

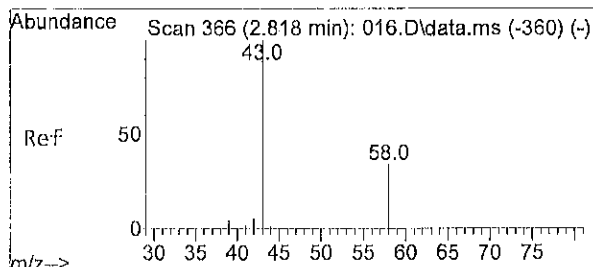
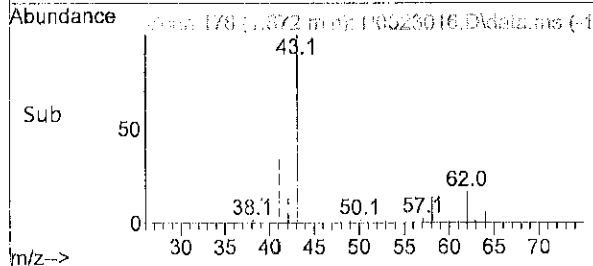
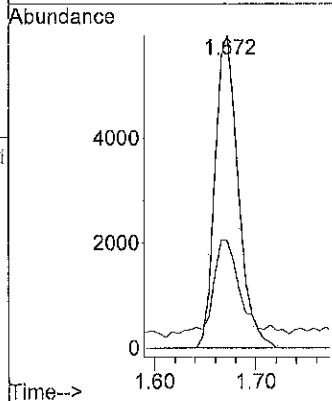
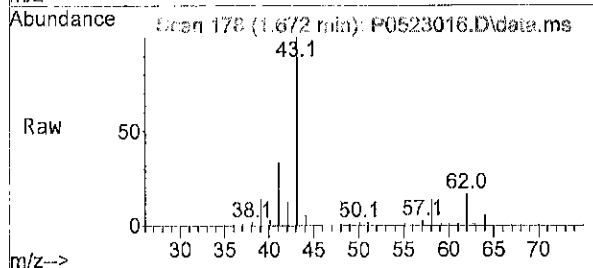
Quant Time: May 24 09:56:39 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration





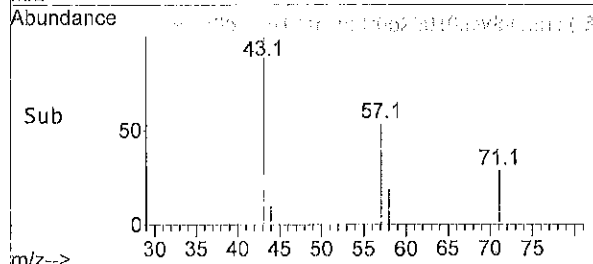
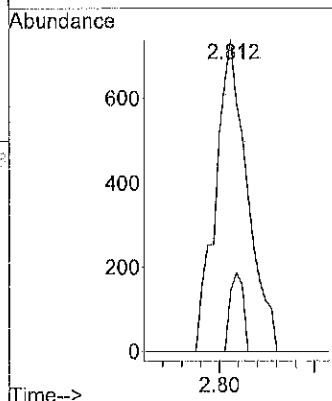
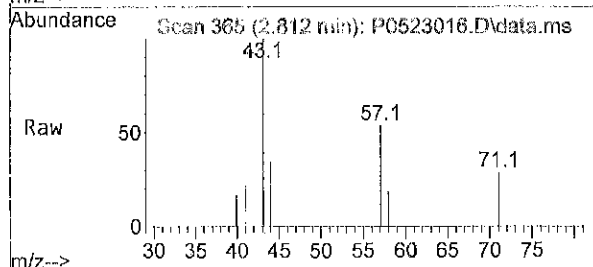
#4
 Vinyl Chloride
 Concen: 0.88 ppb
 RT: 1.672 min Scan# 178
 Delta R.T. -0.006 min
 Lab File: P0523016.D
 Acq: 23 May 2022 05:22 pm

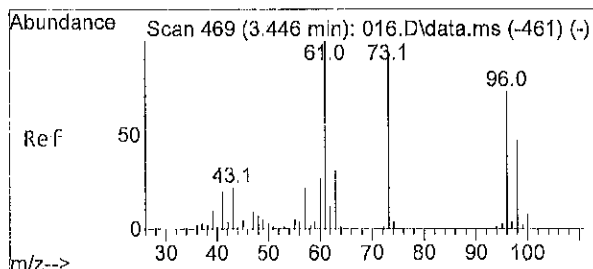
Tgt Ion: 62 Resp: 9575
 Ion Ratio Lower Upper
 62 100
 64 37.2 24.8 37.2



#9
 Acetone
 Concen: 1.97 ppb
 RT: 2.812 min Scan# 365
 Delta R.T. -0.006 min
 Lab File: P0523016.D
 Acq: 23 May 2022 05:22 pm

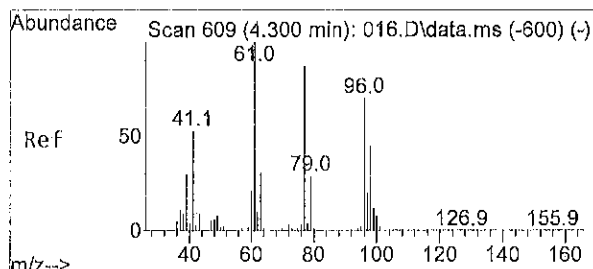
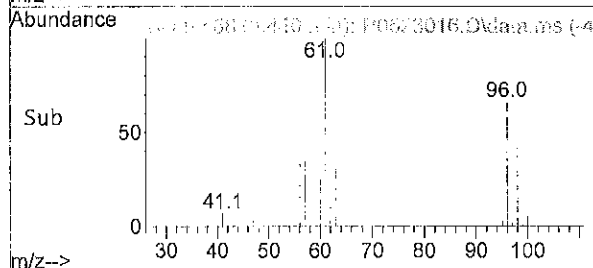
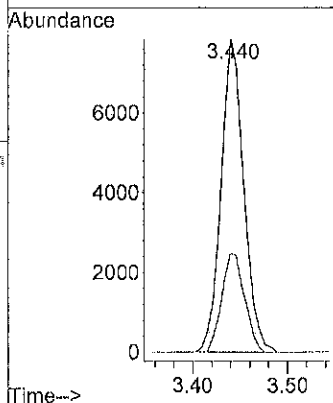
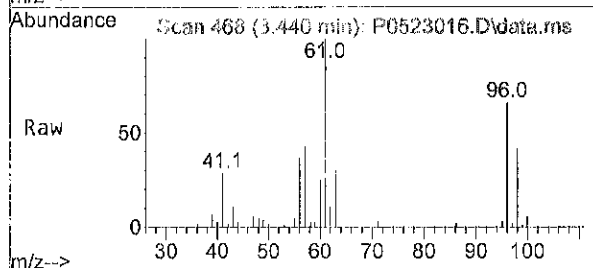
Tgt Ion: 43 Resp: 1709
 Ion Ratio Lower Upper
 43 100
 58 10.5 23.0 34.4#





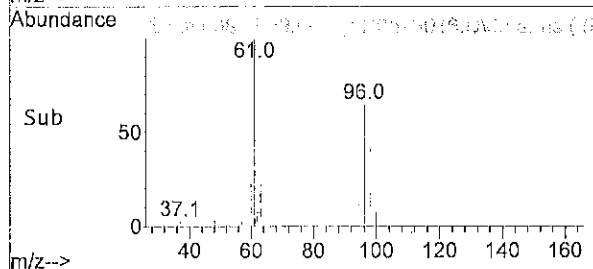
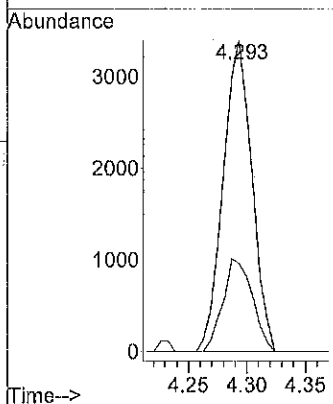
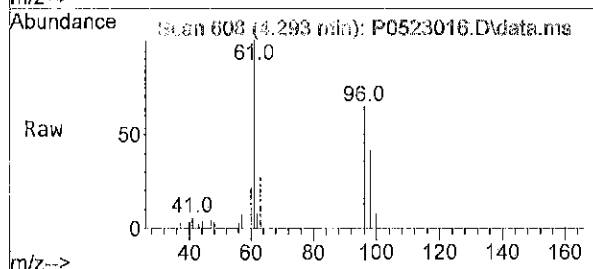
#13
 (trans) 1,2-Dichloroethene
 Concen: 0.90 ppb
 RT: 3.440 min Scan# 468
 Delta R.T. -0.006 min
 Lab File: P0523016.D
 Acq: 23 May 2022 05:22 pm

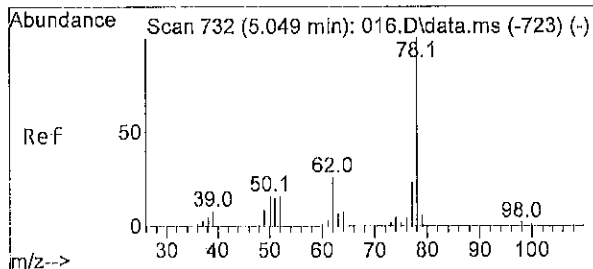
Tgt Ion: 61 Resp: 13038
 Ion Ratio Lower Upper
 61 100
 63 31.6 24.9 37.3



#19
 (cis) 1,2-Dichloroethene
 Concen: 0.36 ppb
 RT: 4.293 min Scan# 608
 Delta R.T. 0.000 min
 Lab File: P0523016.D
 Acq: 23 May 2022 05:22 pm

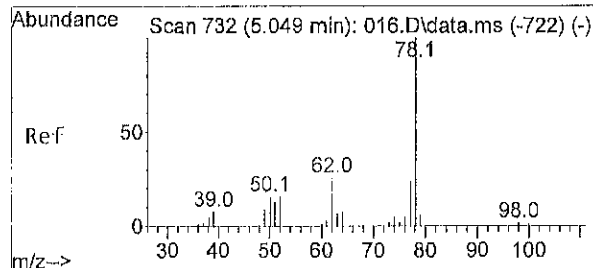
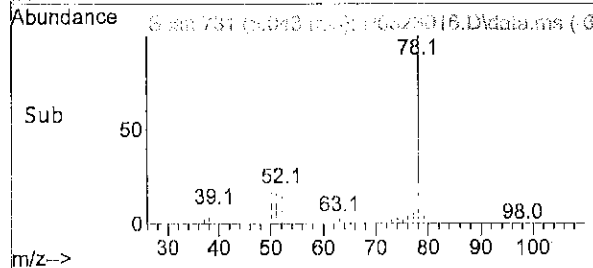
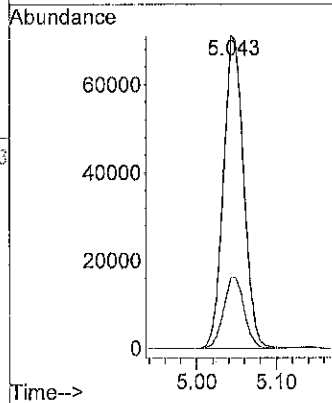
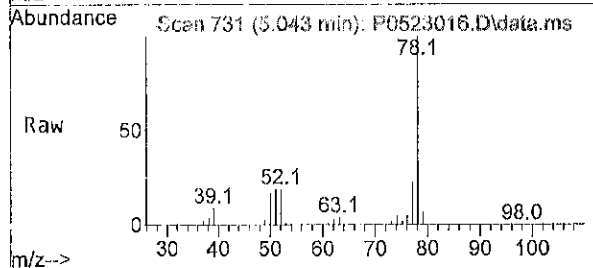
Tgt Ion: 61 Resp: 5798
 Ion Ratio Lower Upper
 61 100
 63 30.4 25.0 37.4





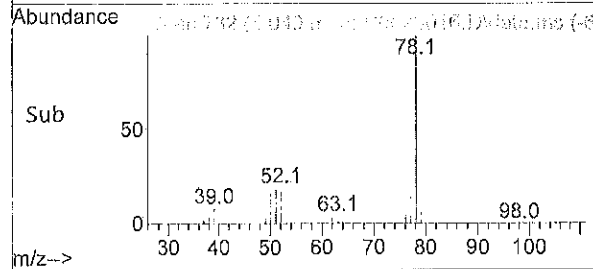
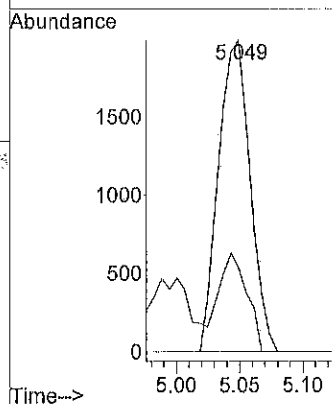
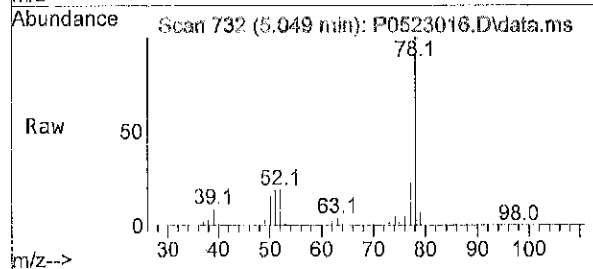
#27
Benzene
Concen: 3.26 ppb
RT: 5.043 min Scan# 731
Delta R.T. -0.006 min
Lab File: P0523016.D
Acq: 23 May 2022 05:22 pm

Tgt Ion: 78 Resp: 126281
Ion Ratio Lower Upper
78 100
77 23.1 18.7 28.1



#28
1,2-Dichloroethane
Concen: 0.37 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.006 min
Lab File: P0523016.D
Acq: 23 May 2022 05:22 pm

Tgt Ion: 62 Resp: 3471
Ion Ratio Lower Upper
62 100
64 27.8 25.0 37.4



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523017.D
 Acq On : 23 May 2022 05:49 pm
 Operator :
 Sample : 05-223-07g
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

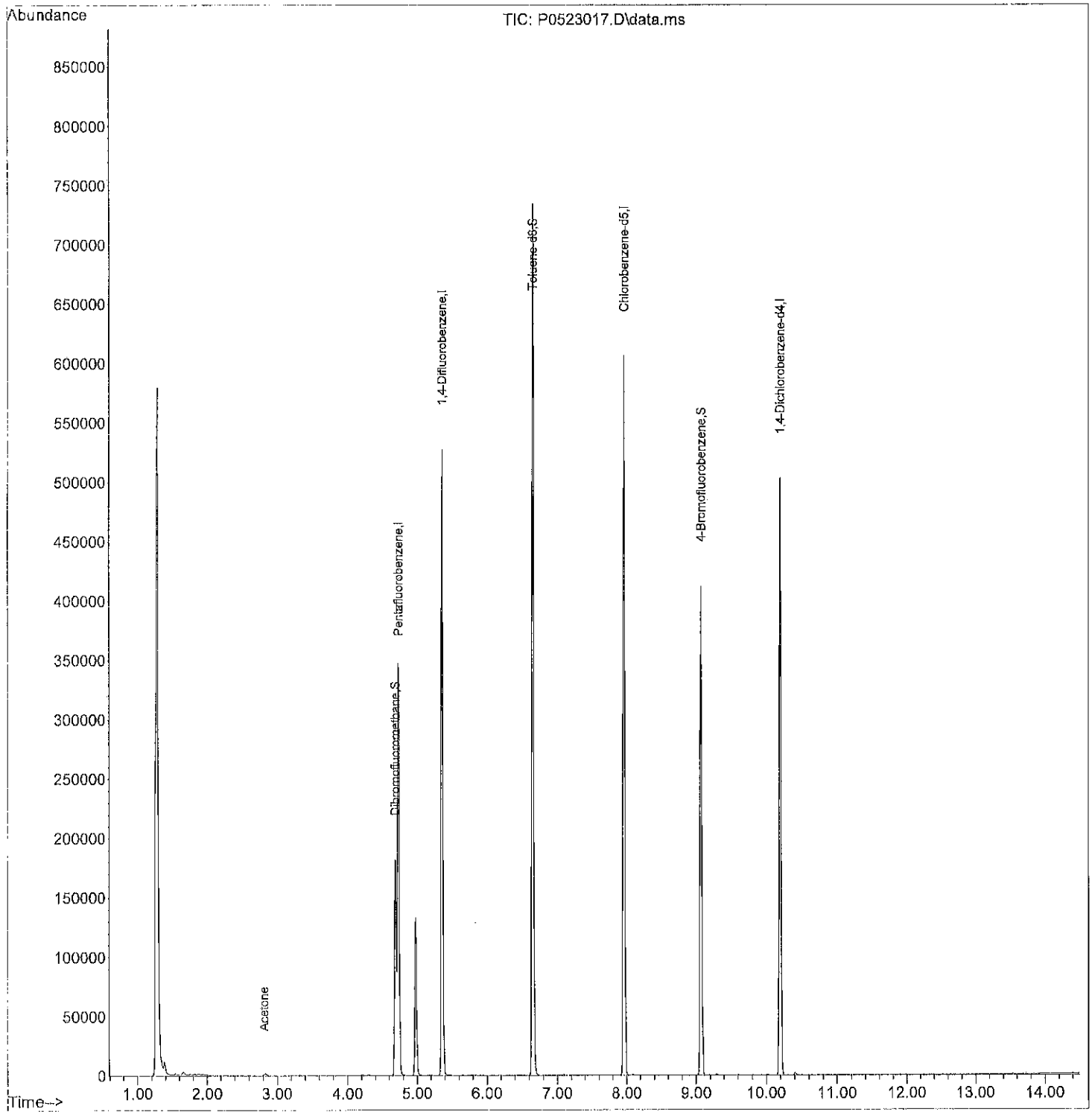
Quant Time: May 24 09:56:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

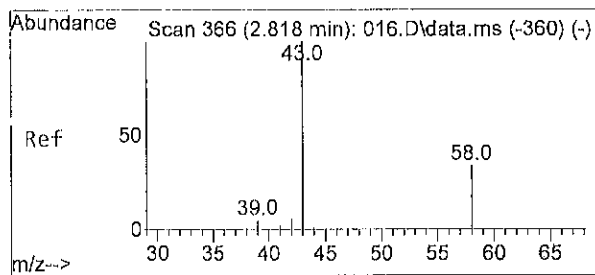
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.739	168	193479	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	372380	10.00	ppb	0.00
39) Chlorobenzene-d5	7.964	117	321974	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	132827	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	102832	10.68	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	106.80%	
37) Toluene-d8	6.653	98	453076	9.92	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.20%	
55) 4-Bromofluorobenzene	9.073	95	144499	9.88	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	98.80%	
Target Compounds						
9) Acetone	2.818	43	989	1.24	ppb	Qvalue 94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523017.D
Acq On : 23 May 2022 05:49 pm
Operator :
Sample : 05-223-07g
Misc :
ALS Vial : 17 Sample Multiplier: 1

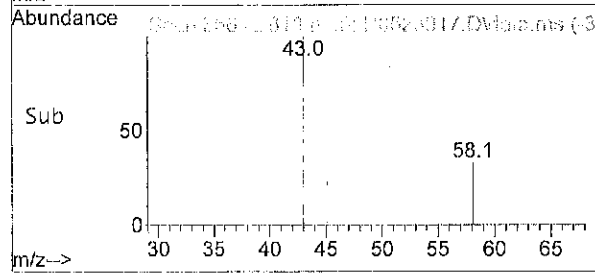
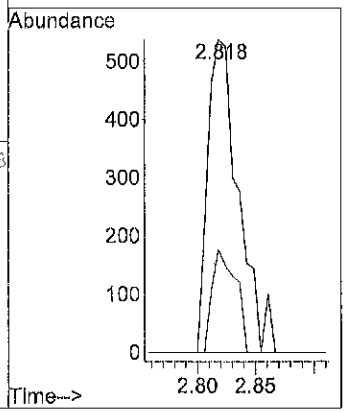
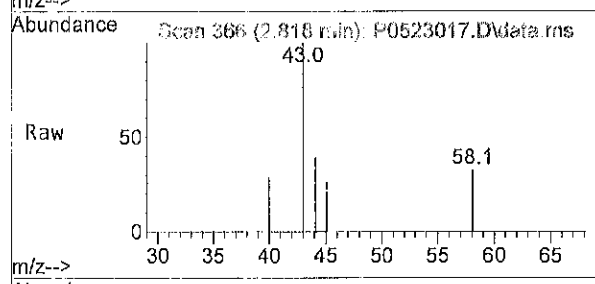
Quant Time: May 24 09:56:46 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration





#9
 Acetone
 Concen: 1.24 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.000 min
 Lab File: P0523017.D
 Acq: 23 May 2022 05:49 pm

Tgt Ion: 43 Resp: 989
 Ion Ratio Lower Upper
 43 100
 58 25.3 23.0 34.4



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523018.D
 Acq On : 23 May 2022 06:15 pm
 Operator :
 Sample : 05-223-08g
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 24 09:56:53 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

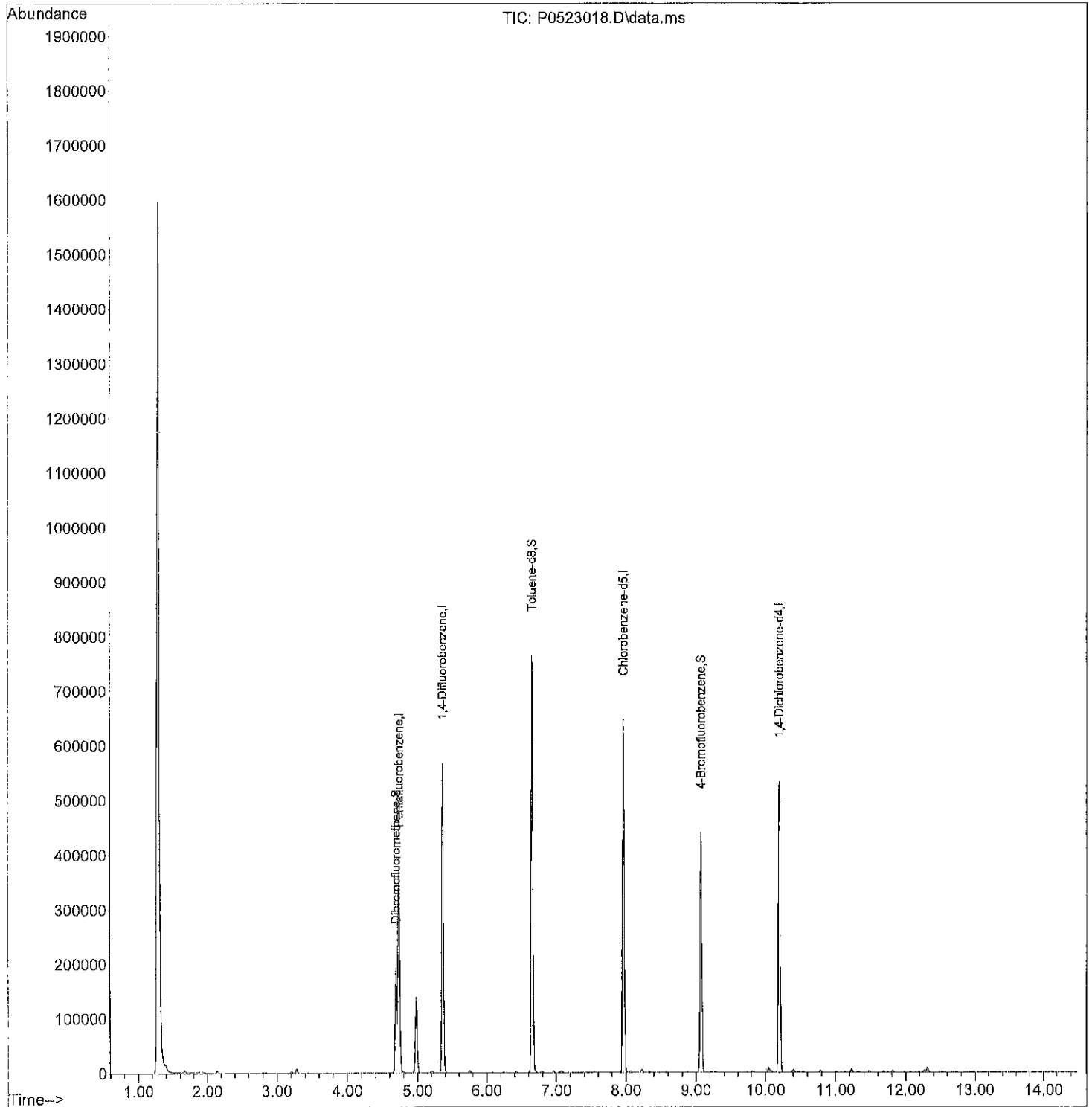
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	208987	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	398441	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	347124	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	144050	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	108943	10.48	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	104.80%	
37) Toluene-d8	6.653	98	476314	9.75	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	97.50%	
55) 4-Bromofluorobenzene	9.073	95	154519	9.80	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	98.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523018.D
Acq On : 23 May 2022 06:15 pm
Operator :
Sample : 05-223-08g
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 24 09:56:53 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523019.D
 Acq On : 23 May 2022 06:42 pm
 Operator :
 Sample : 05-223-09g
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 24 09:57:00 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

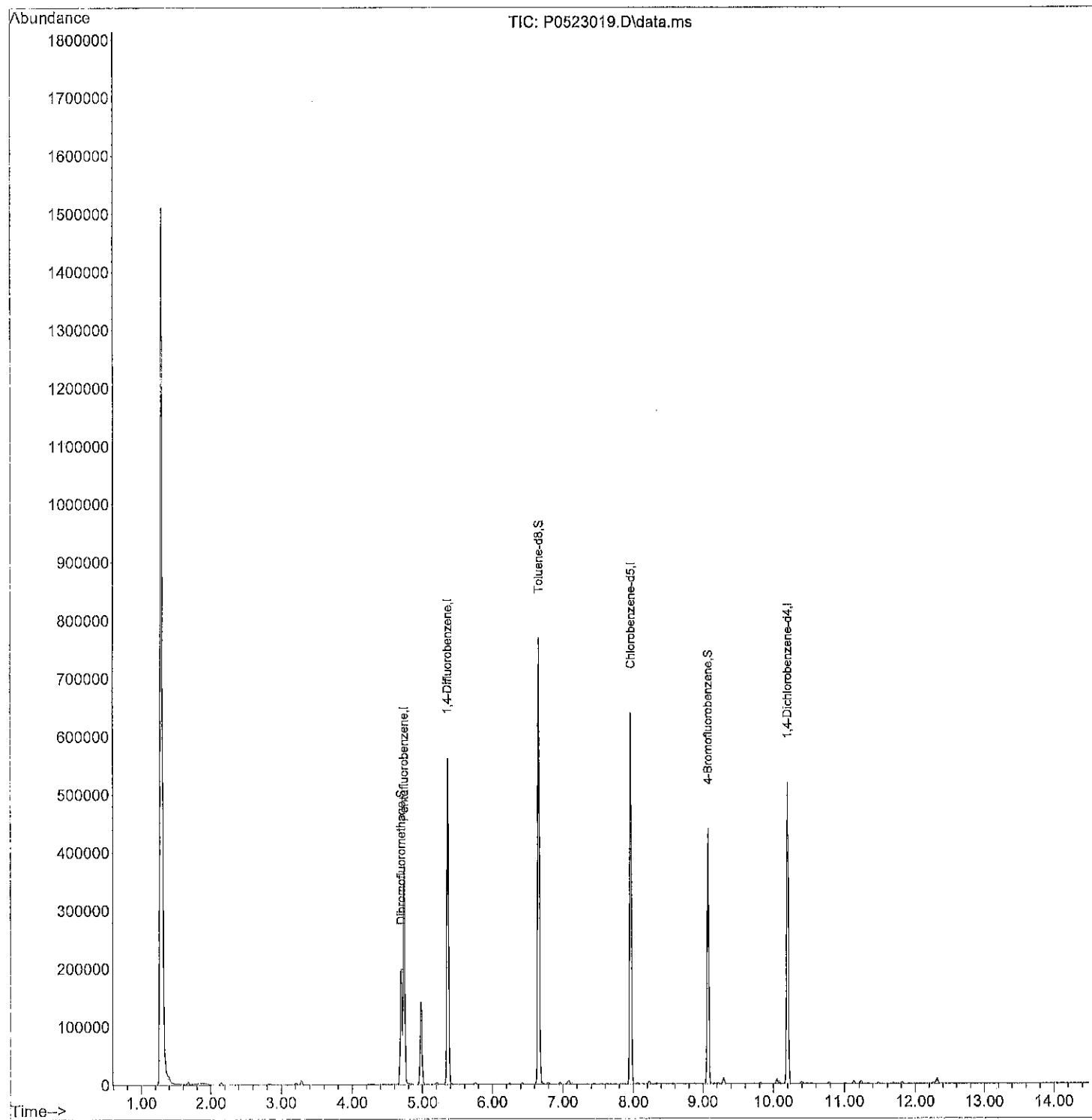
Internal Standards						
1) Pentafluorobenzene	4.738	168	207270	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	398042	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	340544	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	138774	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	109033	10.57	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	105.70%		
37) Toluene-d8	6.653	98	483893	9.91	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.10%		
55) 4-Bromofluorobenzene	9.073	95	153804	9.94	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	99.40%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523019.D
Acq On : 23 May 2022 06:42 pm
Operator :
Sample : 05-223-09g
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 24 09:57:00 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523010.D
 Acq On : 23 May 2022 02:43 pm
 Operator :
 Sample : MB0523W2
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 09:55:57 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

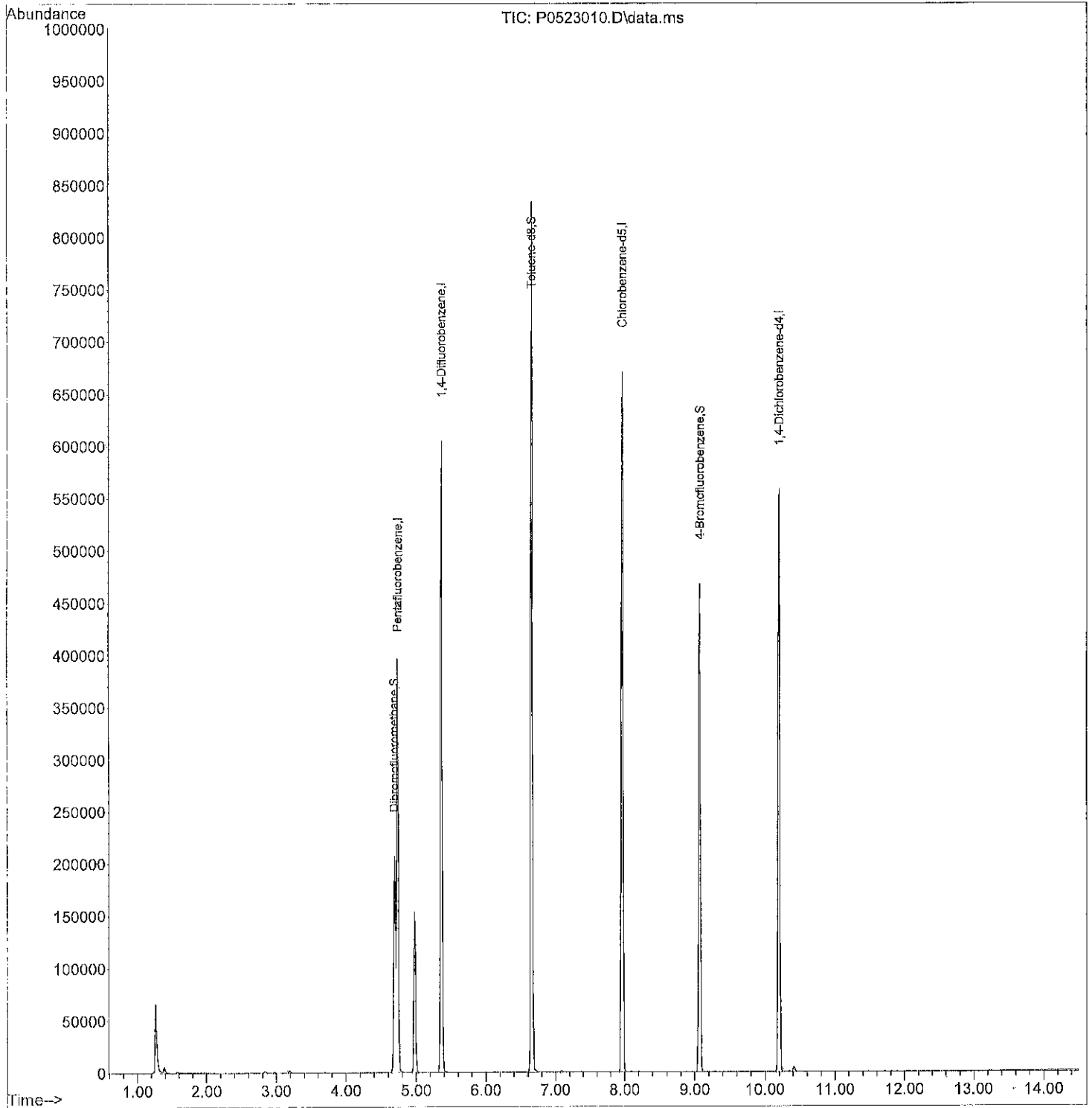
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.739	168	219396	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	418397	10.00	ppb	0.00
39) Chlorobenzene-d5	7.964	117	363405	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	149561	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	117623	10.78	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery	=	107.80%	
37) Toluene-d8	6.653	98	509723	9.93	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.30%	
55) 4-Bromofluorobenzene	9.073	95	163305	9.89	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery	=	98.90%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523010.D
Acq On : 23 May 2022 02:43 pm
Operator :
Sample : MB0523W2
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 09:55:57 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.738	168	226481	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	409822	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	348077	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.201	152	147660	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.696	111	112556	9.99	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery	=	99.90%		
37) Toluene-d8	6.653	98	491012	9.77	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery	=	97.70%		
55) 4-Bromofluorobenzene	9.073	95	158751	10.04	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery	=	100.40%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.422	85	94502	9.88	ppb		100
3) Chloromethane	1.574	50	122711	10.44	ppb		99
4) Vinyl Chloride	1.672	62	120684	10.29	ppb		100
5) Bromomethane	1.965	96	34677	8.69	ppb		99
6) Chloroethane	2.062	64	79938	9.68	ppb		98
7) Trichlorofluoromethane	2.306	101	161602	9.20	ppb		100
8) 1,1-Dichloroethene	2.775	61	146490	9.17	ppb		100
9) Acetone	2.818	43	8457	9.04	ppb		98
10) Iodomethane	2.903	142	64309	8.96	ppb		97
11) Carbon Disulfide	2.970	76	234296	8.18	ppb		100
12) Methylene Chloride	3.196	49	120195	9.31	ppb		100
13) (trans) 1,2-Dichloroet...	3.446	61	146318	9.33	ppb		100
14) Methyl t-Butyl Ether	3.452	73	146097	9.33	ppb		98
15) n-Hexane	3.702	57	166742	14.75	ppb		98
16) 1,1-Dichloroethane	3.800	63	171801	9.08	ppb		100
17) Vinyl Acetate	3.842	43	100969	9.41	ppb		98
18) 2,2-Dichloropropane	4.300	77	137278	10.45	ppb		99
19) (cis) 1,2-Dichloroethene	4.293	61	158331	9.20	ppb		100
20) 2-Butanone	4.300	43	15652	10.23	ppb		98
21) Bromochloromethane	4.495	130	42896	9.66	ppb		99
22) Chloroform	4.562	83	159833	8.78	ppb		99
23) 1,1,1-Trichloroethane	4.732	97	146598	8.58	ppb		89
25) Carbon Tetrachloride	4.885	117	132269	8.67	ppb		99
26) 1,1-Dichloropropene	4.873	75	127698	9.18	ppb		99
27) Benzene	5.049	78	377468	9.05	ppb		100
28) 1,2-Dichloroethane	5.043	62	87163	8.58	ppb		99
30) Trichloroethene	5.598	130	96182	8.88	ppb		99
31) 1,2-Dichloropropane	5.781	63	91099	9.17	ppb		100
32) Dibromomethane	5.878	174	31268	8.90	ppb		98
33) Bromodichloromethane	6.006	83	105434	8.76	ppb		100
34) 2-Chloroethyl Vinyl Ether	6.269	63	25960	9.28	ppb		98
35) (cis) 1,3-Dichloropropene	6.403	75	122729	9.41	ppb		99
36) Methyl Isobutyl Ketone	6.537	43	35750	9.58	ppb		97
38) Toluene	6.714	91	404255	8.61	ppb		99
40) (trans) 1,3-Dichloropr...	6.884	75	85598	9.29	ppb		99

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

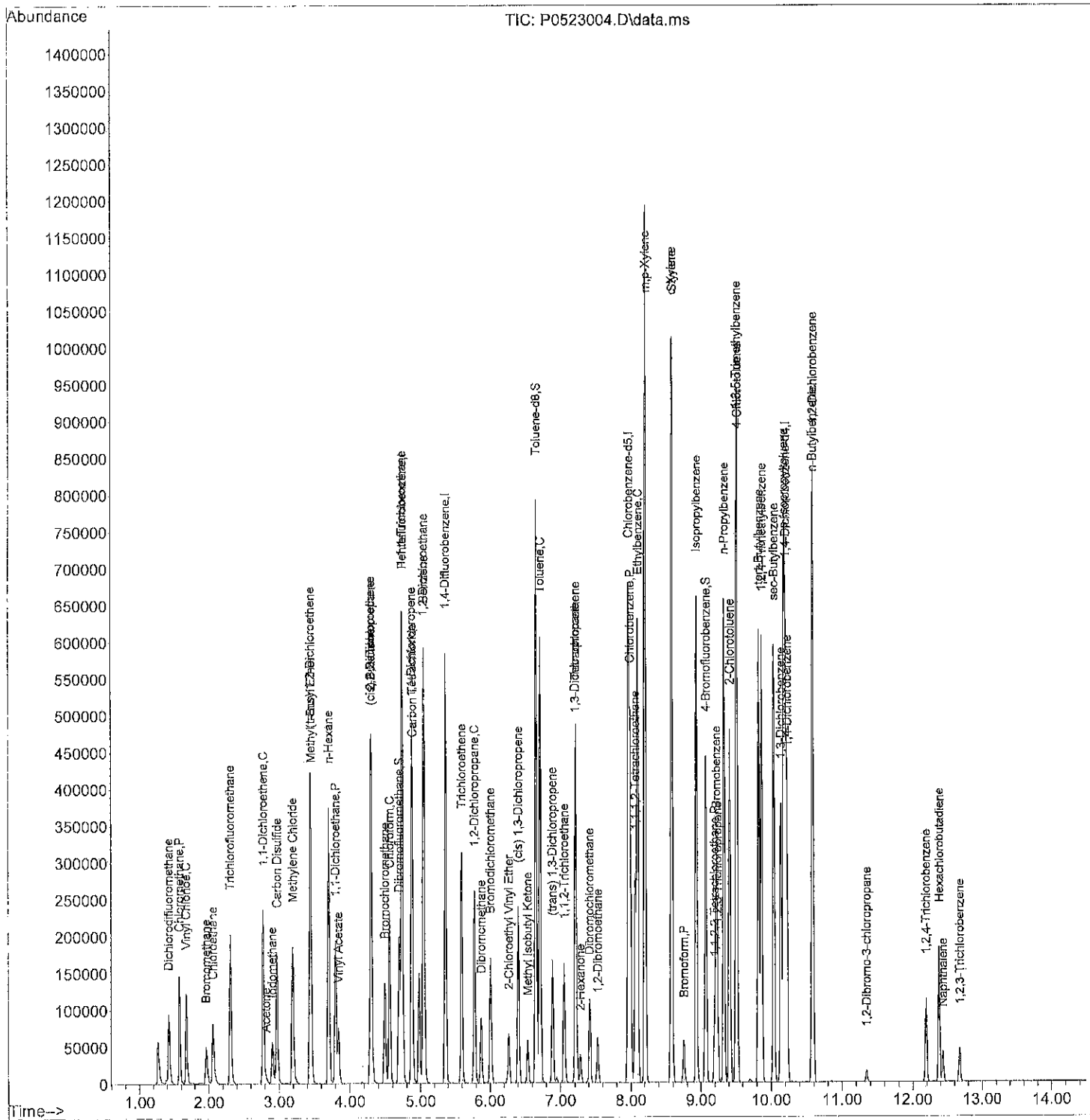
Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,2-Trichloroethane	7.055	97	46682	9.12	ppb	99
42) Tetrachloroethene	7.214	166	94215	9.21	ppb	99
43) 1,3-Dichloropropane	7.207	76	84970	8.85	ppb	99
44) 2-Hexanone	7.281	43	23544	9.60	ppb	97
45) Dibromochloromethane	7.415	129	59385	9.06	ppb	100
46) 1,2-Dibromoethane	7.531	107	41862	8.94	ppb	98
47) Chlorobenzene	7.988	112	240028	8.63	ppb	100
48) 1,1,1,2-Tetrachloroethane	8.061	133	74319	8.74	ppb	99
49) Ethylbenzene	8.098	91	449419	8.86	ppb	100
50) m,p-Xylene	8.207	91	705680	17.97	ppb	100
51) o-Xylene	8.579	91	343050	8.88	ppb	99
52) Styrene	8.585	104	259929	9.08	ppb	100
53) Bromoform	8.756	173	26887	9.22	ppb	99
54) Isopropylbenzene	8.933	105	431223	9.05	ppb	100
57) Bromobenzene	9.219	156	79812	8.90	ppb	100
58) 1,1,2,2-Tetrachloroethane	9.195	83	45455	9.32	ppb	99
59) 1,2,3-Trichloropropane	9.238	75	42847	8.78	ppb	97
60) n-Propylbenzene	9.329	91	512480	9.40	ppb	99
61) 2-Chlorotoluene	9.414	126	94608	9.06	ppb	98
62) 4-Chlorotoluene	9.512	126	93993	9.06	ppb	99
63) 1,3,5-Trimethylbenzene	9.500	105	357368	9.51	ppb	99
64) tert-Butylbenzene	9.823	119	299875	9.20	ppb	100
65) 1,2,4-Trimethylbenzene	9.865	105	340950	9.34	ppb	98
66) sec-Butylbenzene	10.036	105	413747	9.42	ppb	100
67) 1,3-Dichlorobenzene	10.140	146	161518	9.10	ppb	99
68) p-Isopropyltoluene	10.176	119	364320	9.79	ppb	100
69) 1,4-Dichlorobenzene	10.225	146	155629	8.77	ppb	100
70) 1,2-Dichlorobenzene	10.585	146	120841	8.93	ppb	99
71) n-Butylbenzene	10.579	91	324987	10.20	ppb	100
72) 1,2-Dibromo-3-chloropr...	11.347	157	4580	8.88	ppb	98
73) 1,2,4-Trichlorobenzene	12.188	180	36360	8.97	ppb	99
74) Hexachlorobutadiene	12.377	225	35270	9.95	ppb	98
75) Naphthalene	12.432	128	34251	8.10	ppb	97
76) 1,2,3-Trichlorobenzene	12.676	180	15530	7.90	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : S0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523005.D
 Acq On : 23 May 2022 12:19 pm
 Operator :
 Sample : SBD0523W2
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 14:32:58 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.739	168	225184	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	411575	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	353251	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	148466	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	113955	10.17	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	101.70%		
37) Toluene-d8	6.653	98	499440	9.89	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	98.90%		
55) 4-Bromofluorobenzene	9.073	95	160528	10.00	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	100.00%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.428	85	102599	10.79	ppb	100
3) Chloromethane	1.575	50	134138	11.48	ppb	100
4) Vinyl Chloride	1.672	62	133556	11.45	ppb	99
5) Bromomethane	1.971	96	44342	10.73	ppb	97
6) Chloroethane	2.062	64	88728	10.81	ppb	98
7) Trichlorofluoromethane	2.312	101	179038	10.25	ppb	100
8) 1,1-Dichloroethene	2.775	61	163007	10.26	ppb	100
9) Acetone	2.812	43	7779	8.36	ppb #	89
10) Iodomethane	2.904	142	63634	8.92	ppb	97
11) Carbon Disulfide	2.971	76	258908	9.09	ppb	100
12) Methylene Chloride	3.196	49	125832	9.81	ppb	100
13) (trans) 1,2-Dichloroet...	3.446	61	163264	10.47	ppb	99
14) Methyl t-Butyl Ether	3.452	73	154599	9.93	ppb	99
16) 1,1-Dichloroethane	3.800	63	187794	9.99	ppb	100
17) Vinyl Acetate	3.842	43	102344	9.60	ppb	99
18) 2,2-Dichloropropane	4.300	77	151815	11.62	ppb	99
19) (cis) 1,2-Dichloroethene	4.293	61	174569	10.20	ppb	99
20) 2-Butanone	4.300	43	15880	10.44	ppb	98
21) Bromochloromethane	4.495	130	45087	10.21	ppb	99
22) Chloroform	4.562	83	174332	9.63	ppb	99
23) 1,1,1-Trichloroethane	4.732	97	165093	9.72	ppb	98
25) Carbon Tetrachloride	4.885	117	146952	9.69	ppb	100
26) 1,1-Dichloropropene	4.873	75	142394	10.30	ppb	99
27) Benzene	5.049	78	415825	10.02	ppb	100
28) 1,2-Dichloroethane	5.043	62	92399	9.15	ppb	100
30) Trichloroethene	5.598	130	106956	9.84	ppb	100
31) 1,2-Dichloropropane	5.781	63	98777	9.90	ppb	99
32) Dibromomethane	5.879	174	33189	9.41	ppb	97
33) Bromodichloromethane	6.007	83	113146	9.37	ppb	99
34) 2-Chloroethyl Vinyl Ether	6.269	63	27056	9.63	ppb	99
35) (cis) 1,3-Dichloropropene	6.403	75	134244	10.25	ppb	100
36) Methyl Isobutyl Ketone	6.537	43	35527	9.48	ppb	97
38) Toluene	6.714	91	446626	9.47	ppb	99
40) (trans) 1,3-Dichloropr...	6.891	75	91643	9.80	ppb	100
41) 1,1,2-Trichloroethane	7.055	97	49856	9.60	ppb	99

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523005.D
 Acq On : 23 May 2022 12:19 pm
 Operator :
 Sample : SBD0523W2
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 5 Sample Multiplier: 1

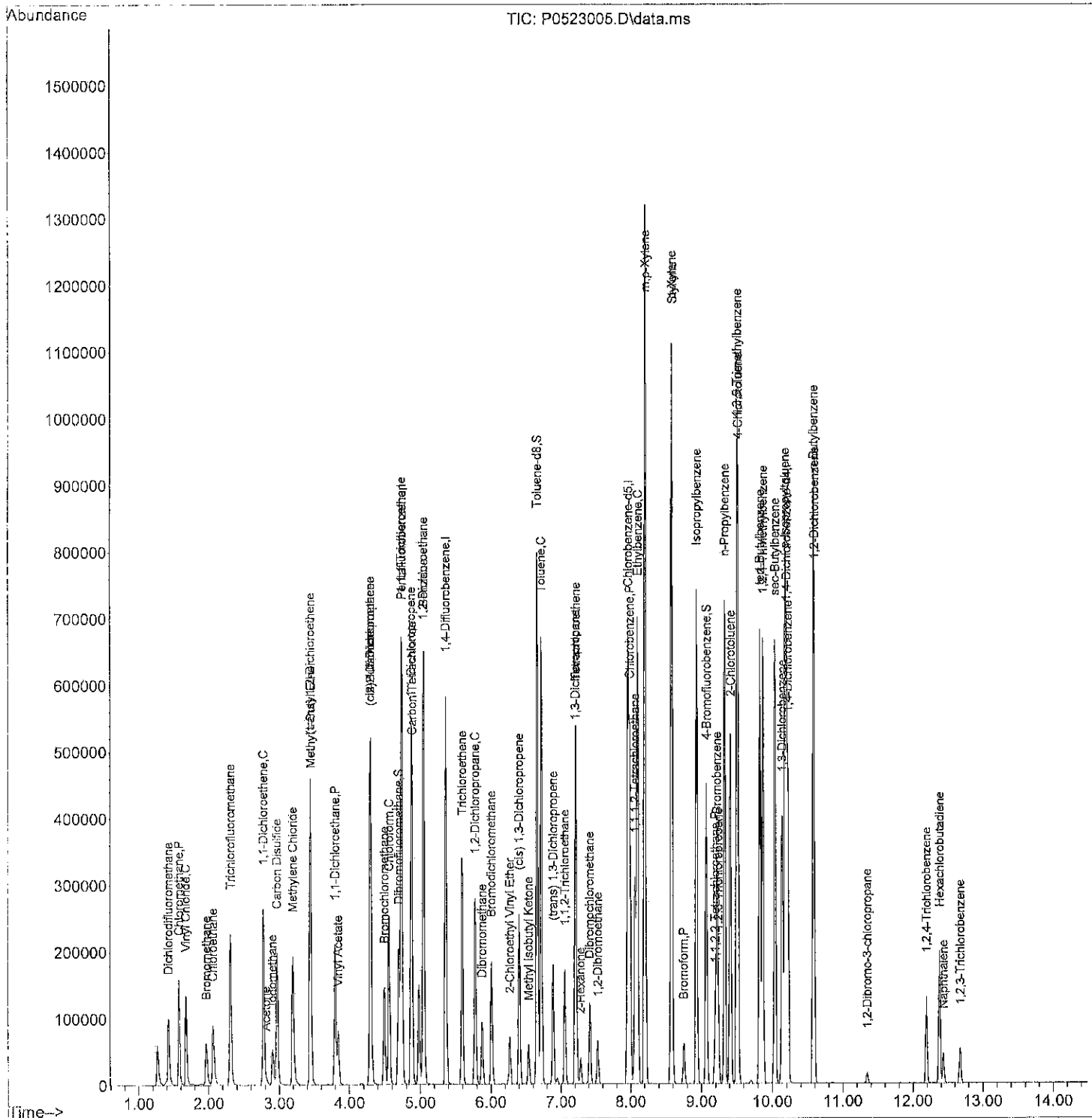
Quant Time: May 23 14:32:58 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Tetrachloroethene	7.214	166	105247	10.14	ppb	100
43) 1,3-Dichloropropane	7.208	76	91531	9.39	ppb	100
44) 2-Hexanone	7.281	43	23946	9.62	ppb	98
45) Dibromochloromethane	7.415	129	64238	9.65	ppb	100
46) 1,2-Dibromoethane	7.531	107	44116	9.29	ppb	99
47) Chlorobenzene	7.988	112	262503	9.30	ppb	99
48) 1,1,1,2-Tetrachloroethane	8.061	133	81085	9.39	ppb	100
49) Ethylbenzene	8.098	91	496477	9.65	ppb	100
50) m,p-Xylene	8.207	91	778163	19.53	ppb	100
51) o-Xylene	8.579	91	375872	9.59	ppb	99
52) Styrene	8.585	104	281489	9.68	ppb	100
53) Bromoform	8.750	173	28078	9.49	ppb	99
54) Isopropylbenzene	8.933	105	475079	9.83	ppb	100
57) Bromobenzene	9.219	156	85500	9.48	ppb	99
58) 1,1,2,2-Tetrachloroethane	9.195	83	46443	9.47	ppb	98
59) 1,2,3-Trichloropropane	9.238	75	43818	8.93	ppb	89
60) n-Propylbenzene	9.329	91	565538	10.32	ppb	99
61) 2-Chlorotoluene	9.414	126	102738	9.79	ppb	98
62) 4-Chlorotoluene	9.512	126	103812	9.95	ppb	99
63) 1,3,5-Trimethylbenzene	9.500	105	391905	10.37	ppb	99
64) tert-Butylbenzene	9.823	119	333132	10.16	ppb	99
65) 1,2,4-Trimethylbenzene	9.866	105	375213	10.23	ppb	100
66) sec-Butylbenzene	10.036	105	460703	10.43	ppb	100
67) 1,3-Dichlorobenzene	10.140	146	173249	9.70	ppb	100
68) p-Isopropyltoluene	10.176	119	398876	10.66	ppb	100
69) 1,4-Dichlorobenzene	10.219	146	169717	9.52	ppb	100
70) 1,2-Dichlorobenzene	10.591	146	128820	9.47	ppb	99
71) n-Butylbenzene	10.579	91	363371	11.35	ppb	100
72) 1,2-Dibromo-3-chloropr...	11.347	157	4472	8.63	ppb	99
73) 1,2,4-Trichlorobenzene	12.188	180	40016	9.82	ppb	98
74) Hexachlorobutadiene	12.377	225	39804	11.17	ppb	99
75) Naphthalene	12.432	128	37964	8.93	ppb	100
76) 1,2,3-Trichlorobenzene	12.676	180	16957	8.58	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523005.D
 Acq On : 23 May 2022 12:19 pm
 Operator :
 Sample : SBD0523W2
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 14:32:58 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	95	0.00
2	Dichlorodifluoromethane	10.000	9.878	1.2	101	0.00
3 P	Chloromethane	10.000	10.442	-4.4	104	0.00
4 C	Vinyl Chloride	10.000	10.290	-2.9	100	0.00
5	Bromomethane	10.000	8.687	13.1	93	0.00
6	Chloroethane	10.000	9.680	3.2	92	0.00
7	Trichlorofluoromethane	10.000	9.203	8.0	87	0.00
8 C	1,1-Dichloroethene	10.000	9.168	8.3	84	0.00
9	Acetone	10.000	9.038	9.6	84	0.00
10	Iodomethane	10.000	8.959	10.4	87	0.00
11	Carbon Disulfide	10.000	8.183	18.2	76	0.00
12	Methylene Chloride	10.000	9.315	6.9	89	0.00
13	(trans) 1,2-Dichloroethene	10.000	9.330	6.7	86	0.00
14	Methyl t-Butyl Ether	10.000	9.326	6.7	84	0.00
15	n-Hexane	10.000	14.747	-47.5#	162	0.00
16 P	1,1-Dichloroethane	10.000	9.083	9.2	83	0.00
17	Vinyl Acetate	10.000	9.413	5.9	86	0.00
18	2,2-Dichloropropane	10.000	10.451	-4.5	100	0.00
19	(cis) 1,2-Dichloroethene	10.000	9.197	8.0	85	0.00
20	2-Butanone	10.000	10.230	-2.3	91	0.00
21	Bromochloromethane	10.000	9.655	3.5	87	0.00
22 C	Chloroform	10.000	8.777	12.2	82	0.00
23	1,1,1-Trichloroethane	10.000	8.584	14.2	79	0.00
24 S	Dibromofluoromethane	10.000	9.990	0.1	95	0.00
25	Carbon Tetrachloride	10.000	8.668	13.3	82	0.00
26	1,1-Dichloropropene	10.000	9.182	8.2	85	0.00
27	Benzene	10.000	9.045	9.6	84	0.00
28	1,2-Dichloroethane	10.000	8.581	14.2	81	0.00
29 I	1,4-Difluorobenzene	10.000	10.000	0.0	97	0.00
30	Trichloroethene	10.000	8.882	11.2	85	0.00
31 C	1,2-Dichloropropane	10.000	9.169	8.3	86	0.00
32	Dibromomethane	10.000	8.904	11.0	88	0.00
33	Bromodichloromethane	10.000	8.765	12.3	83	0.00
34	2-Chloroethyl Vinyl Ether	10.000	9.279	7.2	88	0.00
35	(cis) 1,3-Dichloropropene	10.000	9.407	5.9	86	0.00
36	Methyl Isobutyl Ketone	10.000	9.582	4.2	90	0.00
37 S	Toluene-d8	10.000	9.767	2.3	96	0.00
38 C	Toluene	10.000	8.609	13.9	84	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	98	0.00
40	(trans) 1,3-Dichloropropene	10.000	9.286	7.1	86	0.00
41	1,1,2-Trichloroethane	10.000	9.118	8.8	85	0.00
42	Tetrachloroethene	10.000	9.212	7.9	90	0.00
43	1,3-Dichloropropane	10.000	8.848	11.5	84	0.00
44	2-Hexanone	10.000	9.597	4.0	90	0.00

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
45	Dibromochloromethane	10.000	9.058	9.4	84	0.00
46	1,2-Dibromoethane	10.000	8.943	10.6	87	0.00
47 P	Chlorobenzene	10.000	8.631	13.7	85	0.00
48	1,1,1,2-Tetrachloroethane	10.000	8.738	12.6	82	0.00
49 C	Ethylbenzene	10.000	8.862	11.4	85	0.00
50	m,p-Xylene	20.000	17.970	10.2	86	0.00
51	o-Xylene	10.000	8.883	11.2	83	0.00
52	Styrene	10.000	9.075	9.3	85	0.00
53 P	BromoForm	10.000	9.222	7.8	85	0.00
54	Isopropylbenzene	10.000	9.055	9.5	87	0.00
55 S	4-Bromofluorobenzene	10.000	10.038	-0.4	98	0.00
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	95	0.00
57	Bromobenzene	10.000	8.902	11.0	86	0.00
58 P	1,1,1,2-Tetrachloroethane	10.000	9.317	6.8	86	0.00
59	1,2,3-Trichloropropane	10.000	8.783	12.2	84	0.00
60	n-Propylbenzene	10.000	9.404	6.0	92	0.00
61	2-Chlorotoluene	10.000	9.063	9.4	88	0.00
62	4-Chlorotoluene	10.000	9.056	9.4	86	0.00
63	1,3,5-Trimethylbenzene	10.000	9.512	4.9	89	0.00
64	tert-Butylbenzene	10.000	9.200	8.0	89	0.00
65	1,2,4-Trimethylbenzene	10.000	9.343	6.6	88	0.00
66	sec-Butylbenzene	10.000	9.416	5.8	94	0.00
67	1,3-Dichlorobenzene	10.000	9.096	9.0	89	0.00
68	p-Isopropyltoluene	10.000	9.786	2.1	96	0.00
69	1,4-Dichlorobenzene	10.000	8.775	12.2	88	0.00
70	1,2-Dichlorobenzene	10.000	8.933	10.7	86	0.00
71	n-Butylbenzene	10.000	10.202	-2.0	105	0.00
72	1,2-Dibromo-3-chloropropane	10.000	8.884	11.2	87	0.00
73	1,2,4-Trichlorobenzene	10.000	8.975	10.3	95	0.00
74	Hexachlorobutadiene	10.000	9.954	0.5	128	0.00
75	Naphthalene	10.000	8.099	19.0	79	0.00
76	1,2,3-Trichlorobenzene	10.000	7.902	21.0#	86	0.00

(#) = Out of Range

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

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	226481	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	409822	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	348077	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	147660	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	112556	9.99	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	99.90%		
37) Toluene-d8	6.653	98	491012	9.77	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	97.70%		
55) 4-Bromofluorobenzene	9.073	95	158751	10.04	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	100.40%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.422	85	94502	9.88	ppb	100
3) Chloromethane	1.574	50	122711	10.44	ppb	99
4) Vinyl Chloride	1.672	62	120684	10.29	ppb	100
5) Bromomethane	1.965	96	34677	8.69	ppb	99
6) Chloroethane	2.062	64	79938	9.68	ppb	98
7) Trichlorofluoromethane	2.306	101	161602	9.20	ppb	100
8) 1,1-Dichloroethene	2.775	61	146490	9.17	ppb	100
9) Acetone	2.818	43	8457	9.04	ppb	98
10) Iodomethane	2.903	142	64309	8.96	ppb	97
11) Carbon Disulfide	2.970	76	234296	8.18	ppb	100
12) Methylene Chloride	3.196	49	120195	9.31	ppb	100
13) (trans) 1,2-Dichloroet...	3.446	61	146318	9.33	ppb	100
14) Methyl t-Butyl Ether	3.452	73	146097	9.33	ppb	98
15) n-Hexane	3.702	57	166742	14.75	ppb	98
16) 1,1-Dichloroethane	3.800	63	171801	9.08	ppb	100
17) Vinyl Acetate	3.842	43	100969	9.41	ppb	98
18) 2,2-Dichloropropane	4.300	77	137278	10.45	ppb	99
19) (cis) 1,2-Dichloroethene	4.293	61	158331	9.20	ppb	100
20) 2-Butanone	4.300	43	15652	10.23	ppb	98
21) Bromochloromethane	4.495	130	42896	9.66	ppb	99
22) Chloroform	4.562	83	159833	8.78	ppb	99
23) 1,1,1-Trichloroethane	4.732	97	146598	8.58	ppb	89
25) Carbon Tetrachloride	4.885	117	132269	8.67	ppb	99
26) 1,1-Dichloropropene	4.873	75	127698	9.18	ppb	99
27) Benzene	5.049	78	377468	9.05	ppb	100
28) 1,2-Dichloroethane	5.043	62	87163	8.58	ppb	99
30) Trichloroethene	5.598	130	96182	8.88	ppb	99
31) 1,2-Dichloropropane	5.781	63	91099	9.17	ppb	100
32) Dibromomethane	5.878	174	31268	8.90	ppb	98
33) Bromodichloromethane	6.006	83	105434	8.76	ppb	100
34) 2-Chloroethyl Vinyl Ether	6.269	63	25960	9.28	ppb	98
35) (cis) 1,3-Dichloropropene	6.403	75	122729	9.41	ppb	99
36) Methyl Isobutyl Ketone	6.537	43	35750	9.58	ppb	97
38) Toluene	6.714	91	404255	8.61	ppb	99
40) (trans) 1,3-Dichloropr...	6.884	75	85598	9.29	ppb	99

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

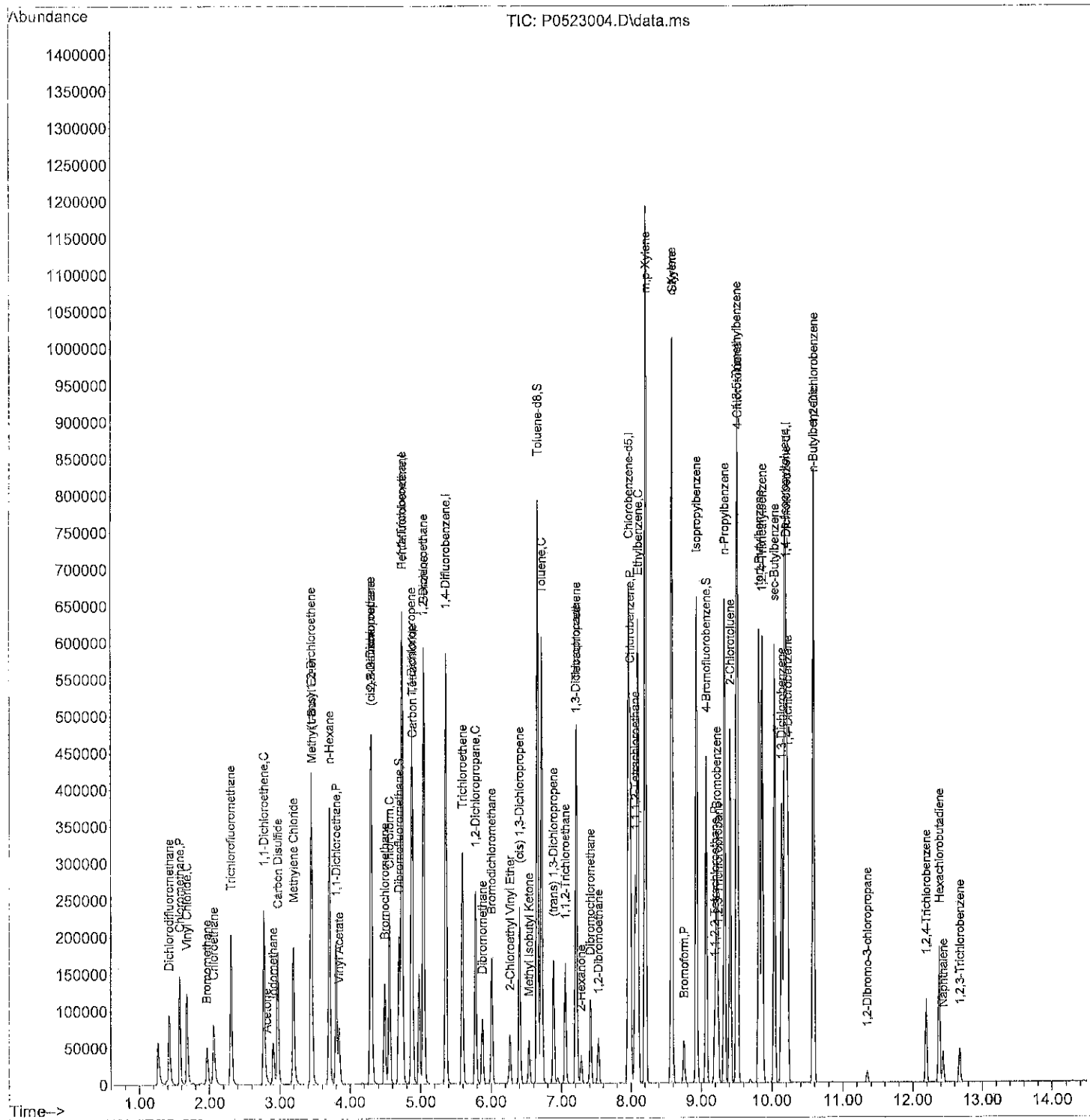
Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,2-Trichloroethane	7.055	97	46682	9.12	ppb	99
42) Tetrachloroethene	7.214	166	94215	9.21	ppb	99
43) 1,3-Dichloropropane	7.207	76	84970	8.85	ppb	99
44) 2-Hexanone	7.281	43	23544	9.60	ppb	97
45) Dibromochloromethane	7.415	129	59385	9.06	ppb	100
46) 1,2-Dibromoethane	7.531	107	41862	8.94	ppb	98
47) Chlorobenzene	7.988	112	240028	8.63	ppb	100
48) 1,1,1,2-Tetrachloroethane	8.061	133	74319	8.74	ppb	99
49) Ethylbenzene	8.098	91	449419	8.86	ppb	100
50) m,p-Xylene	8.207	91	705680	17.97	ppb	100
51) o-Xylene	8.579	91	343050	8.88	ppb	99
52) Styrene	8.585	104	259929	9.08	ppb	100
53) Bromoform	8.756	173	26887	9.22	ppb	99
54) Isopropylbenzene	8.933	105	431223	9.05	ppb	100
57) Bromobenzene	9.219	156	79812	8.90	ppb	100
58) 1,1,2,2-Tetrachloroethane	9.195	83	45455	9.32	ppb	99
59) 1,2,3-Trichloropropane	9.238	75	42847	8.78	ppb	97
60) n-Propylbenzene	9.329	91	512480	9.40	ppb	99
61) 2-Chlorotoluene	9.414	126	94608	9.06	ppb	98
62) 4-Chlorotoluene	9.512	126	93993	9.06	ppb	99
63) 1,3,5-Trimethylbenzene	9.500	105	357368	9.51	ppb	99
64) tert-Butylbenzene	9.823	119	299875	9.20	ppb	100
65) 1,2,4-Trimethylbenzene	9.865	105	340950	9.34	ppb	98
66) sec-Butylbenzene	10.036	105	413747	9.42	ppb	100
67) 1,3-Dichlorobenzene	10.140	146	161518	9.10	ppb	99
68) p-Isopropyltoluene	10.176	119	364320	9.79	ppb	100
69) 1,4-Dichlorobenzene	10.225	146	155629	8.77	ppb	100
70) 1,2-Dichlorobenzene	10.585	146	120841	8.93	ppb	99
71) n-Butylbenzene	10.579	91	324987	10.20	ppb	100
72) 1,2-Dibromo-3-chloropr...	11.347	157	4580	8.88	ppb	98
73) 1,2,4-Trichlorobenzene	12.188	180	36360	8.97	ppb	99
74) Hexachlorobutadiene	12.377	225	35270	9.95	ppb	98
75) Naphthalene	12.432	128	34251	8.10	ppb	97
76) 1,2,3-Trichlorobenzene	12.676	180	15530	7.90	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523004.D
 Acq On : 23 May 2022 11:41 am
 Operator :
 Sample : SB0523W2 (CCV0523W1)
 Misc : V4-089-01,V4-093-21,V4-093-18
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 14:32:46 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523009.D
 Acq On : 23 May 2022 02:06 pm
 Operator :
 Sample : CCV0523W4 (HEX ONLY)
 Misc : V4-094-01
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 14:34:30 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\F220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	92	0.00
15	n-Hexane	10.000	11.906	-19.1	127	0.00
24 S	Dibromofluoromethane	10.000	10.555	-5.5	98	0.00
29 I	1,4-Difluorobenzene	10.000	10.000	0.0	98	0.00
37 S	Toluene-d8	10.000	9.866	1.3	98	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
55 S	4-Bromofluorobenzene	10.000	9.918	0.8	99	0.00
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

P220511WH.M Mon May 23 15:52:08 2022

Data Path : D:\MassHunter\GCMS\1\data\20220523\
 Data File : P0523009.D
 Acq On : 23 May 2022 02:06 pm
 Operator :
 Sample : CCV0523W4 (HEX ONLY)
 Misc : V4-094-01
 ALS Vial : 9 Sample Multiplier: 1

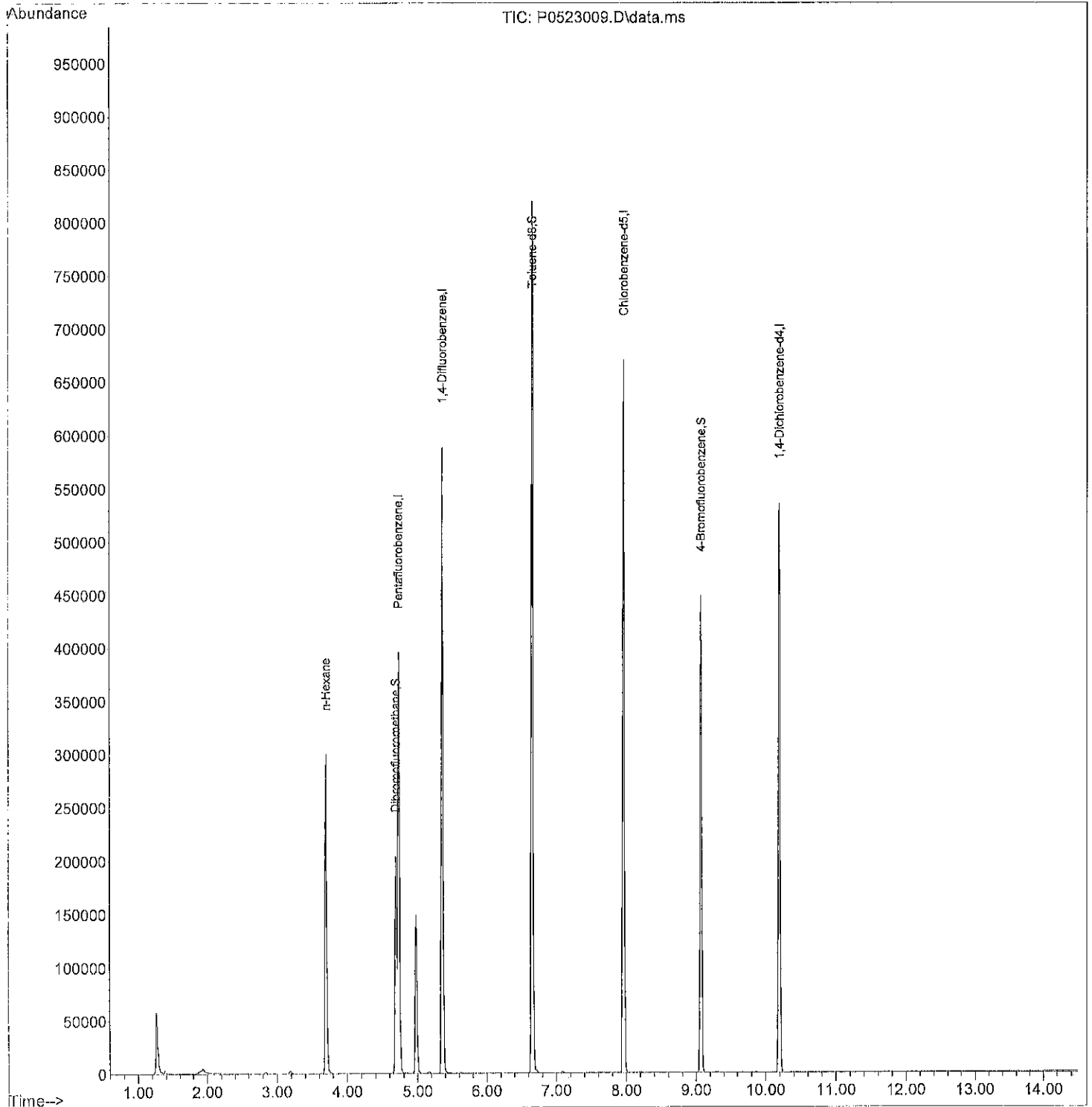
Quant Time: May 23 14:34:30 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
 Quant Title :
 QLast Update : Thu May 12 11:38:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.732	168	220070	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	414879	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	354834	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.201	152	145747	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.689	111	115555	10.56	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery	=	105.60%		
37) Toluene-d8	6.653	98	502081	9.87	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery	=	98.70%		
55) 4-Bromofluorobenzene	9.073	95	159902	9.92	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery	=	99.20%		
Target Compounds							
15) n-Hexane	3.696	57	130811	11.91	ppb		Qvalue 97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220523\
Data File : P0523009.D
Acq On : 23 May 2022 02:06 pm
Operator :
Sample : CCV0523W4 (HEX ONLY)
Misc : V4-094-01
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 14:34:30 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220511WH.M
Quant Title :
QLast Update : Thu May 12 11:38:03 2022
Response via : Initial Calibration



Dissolved Methane
RSK 175 Data

Data File : E:\1\DATA\L220527\0527006.D
 Acq On : 27 May 2022 9:36
 Sample : 05-223-01
 Misc :

Vial: 6
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 9:46 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	6169692	1507.338 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.20	63977	7.220 PPM
5) 1-Butene	4.43	7253259	435.892 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527006.D
Acq On : 27 May 2022 9:36
Sample : 05-223-01
Misc :

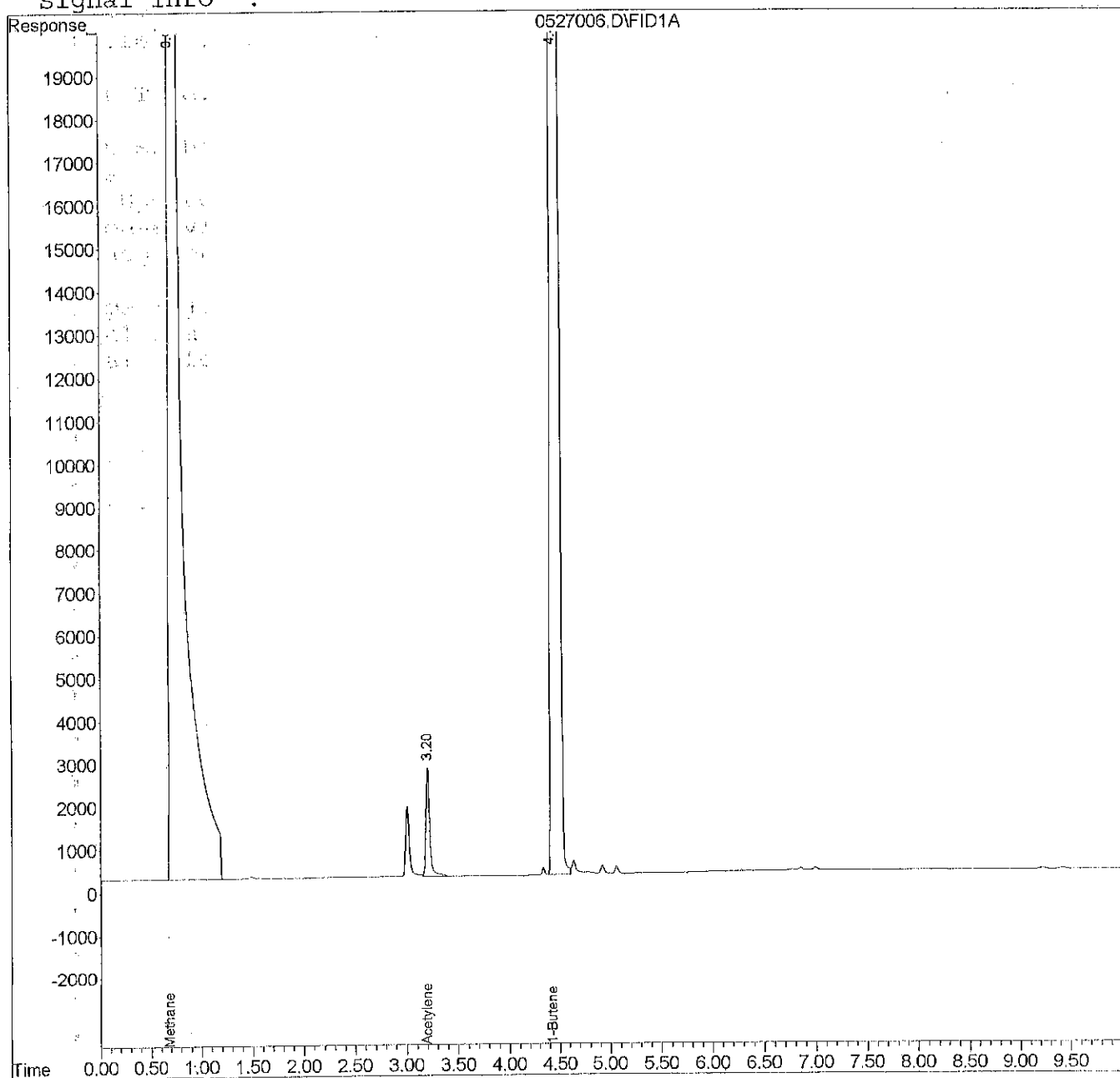
Vial: 6
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 9:46 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527007.D
 Acq On : 27 May 2022 9:51
 Sample : 05-223-01 3X
 Misc :

Vial: 7
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:01 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2267197	552.417 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.20	21965	2.510 PPM
5) 1-Butene	4.45	2429370	145.883 ppm

5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527007.D
Acq On : 27 May 2022 9:51
Sample : 05-223-01 3X
Misc :

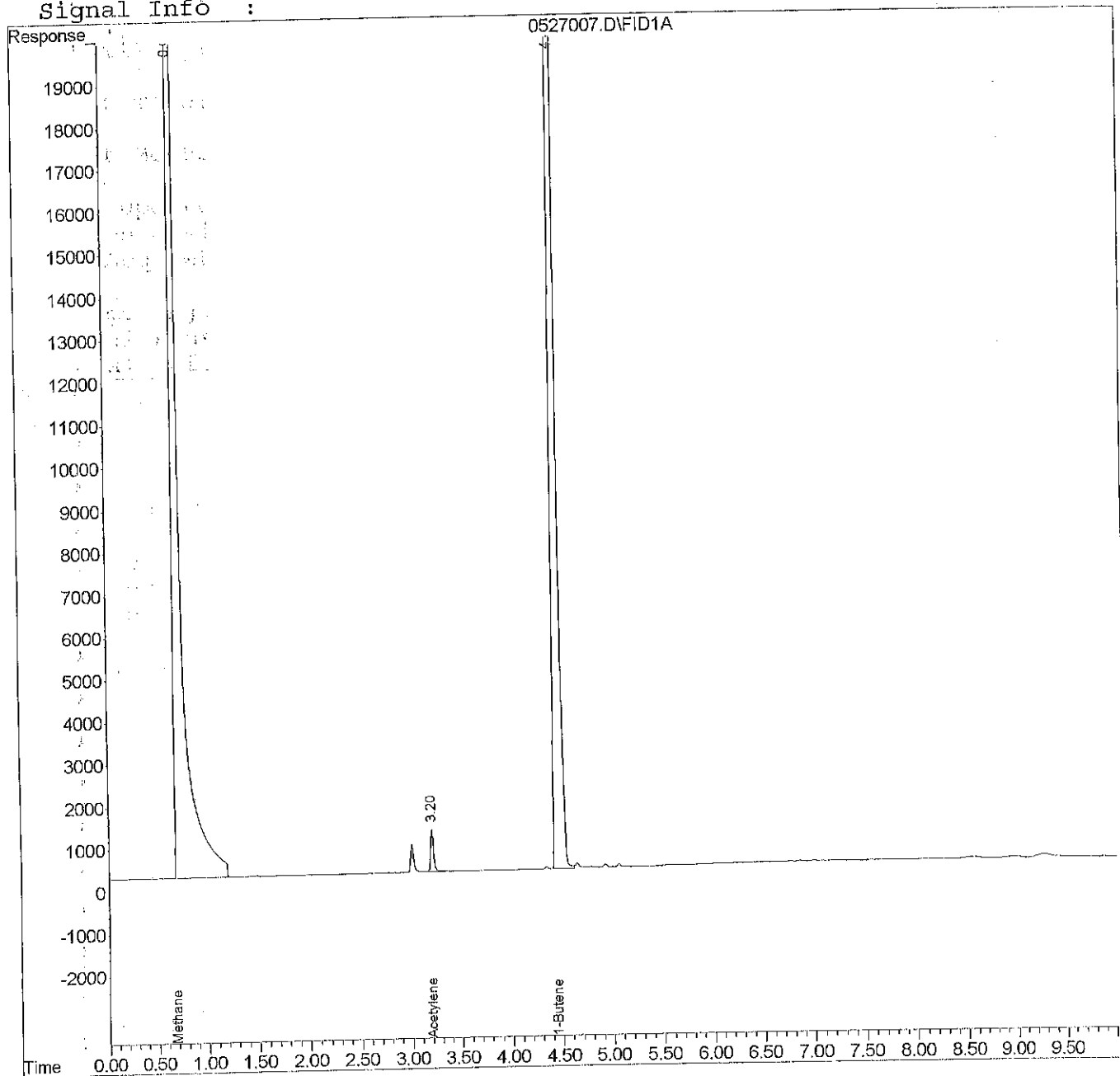
Vial: 7
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:01 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527008.D
 Acq On : 27 May 2022 10:06
 Sample : 05-223-02
 Misc :

Vial: 8
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:14 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj: :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	3470554	846.873 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.21	62270	7.029 PPM
5) 1-Butene	4.43	7665687	460.687 ppm

5/27/22
NM
d

Quantitation Report

Data File : E:\1\DATA\L220527\0527008.D
Acq On : 27 May 2022 10:06
Sample : 05-223-02
Misc :

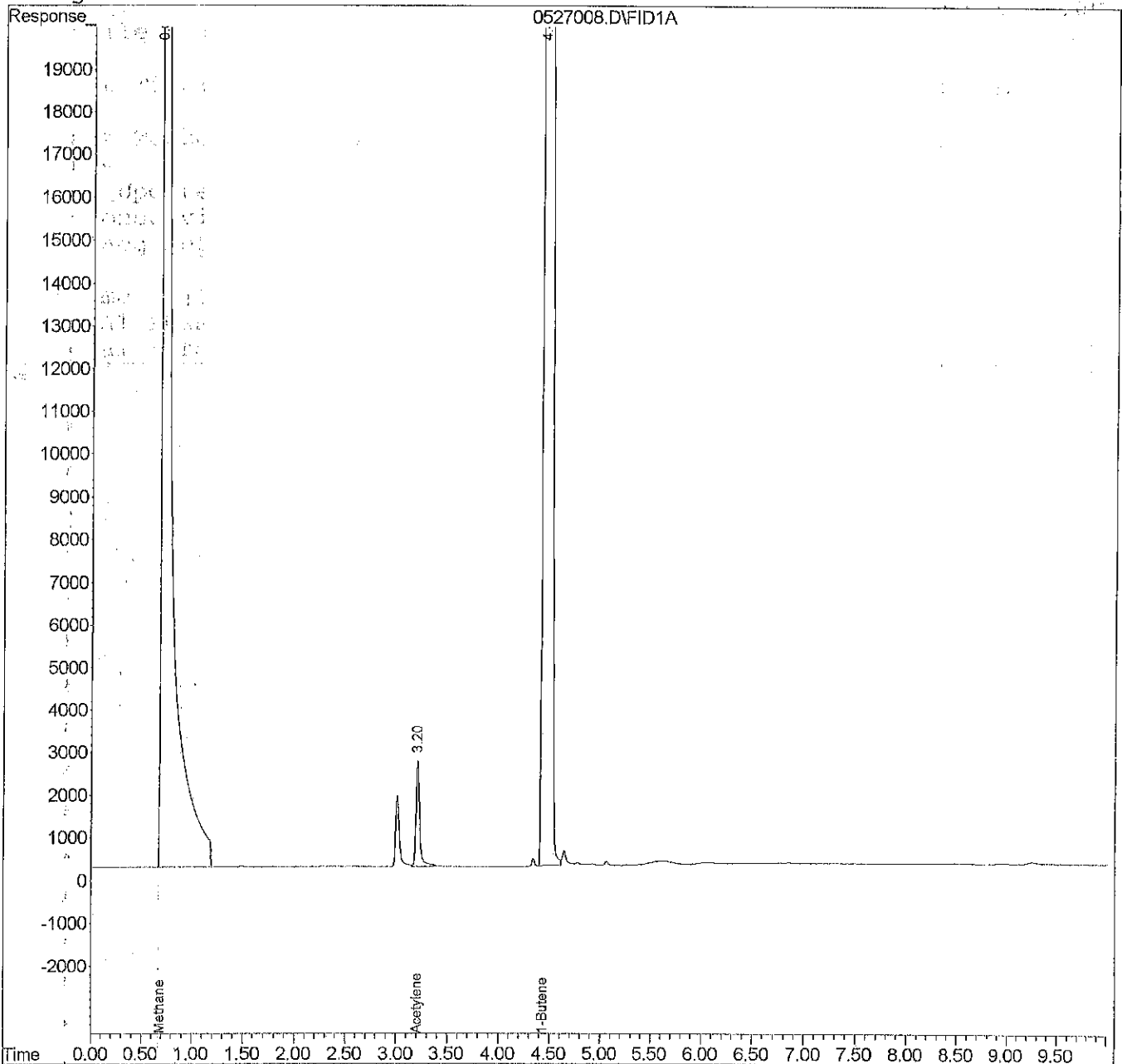
Vial: 8
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:14 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527009.D
 Acq On : 27 May 2022 10:22
 Sample : 05-223-03
 Misc :

Vial: 9
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:28 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	79780241	19519.458 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.21	55584	6.279 PPM
5) 1-Butene	4.44	6467475	388.651 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527009.D
Acq On : 27 May 2022 10:22
Sample : 05-223-03
Misc :

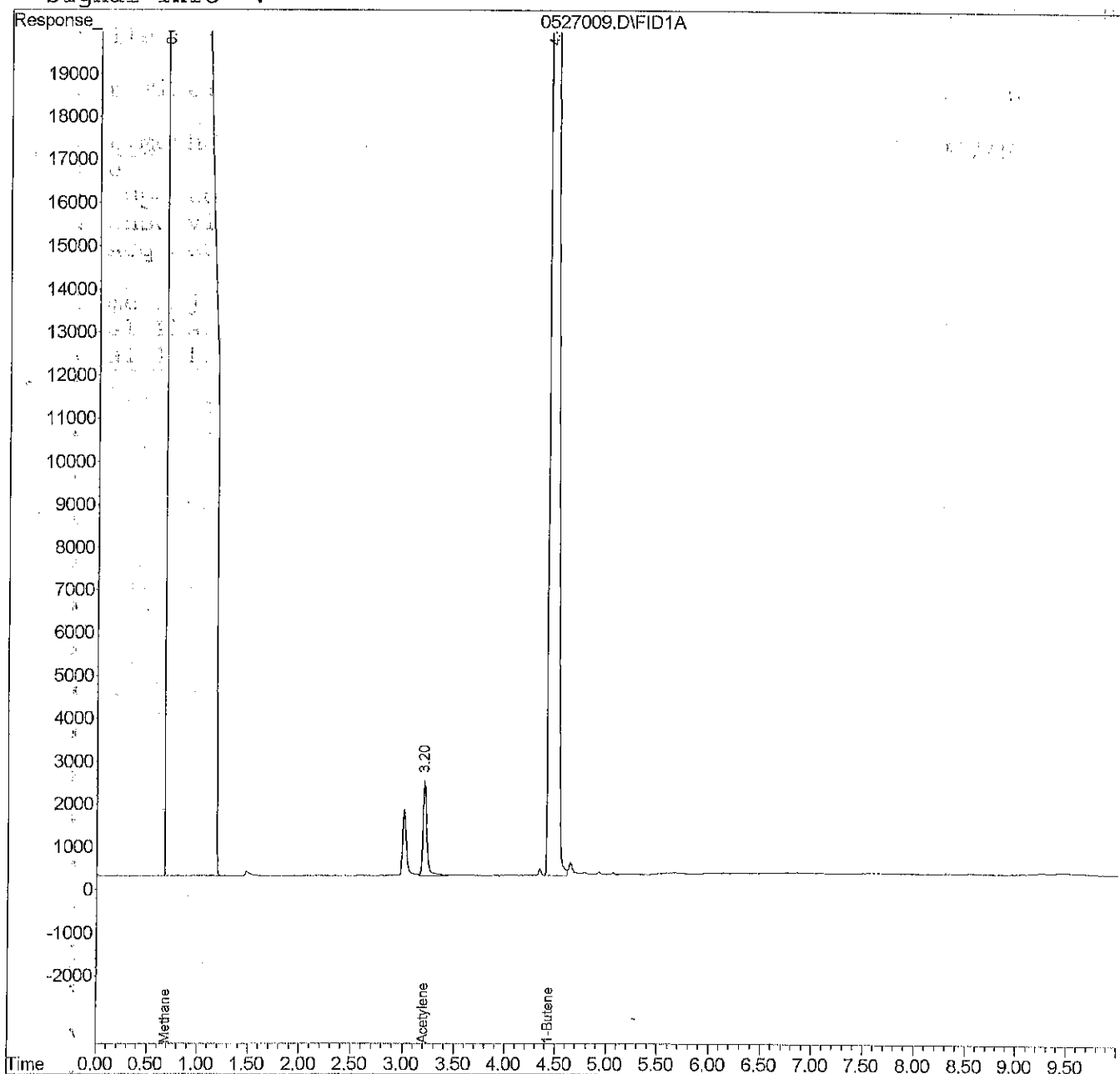
Vial: 9
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:28 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527010.D
 Acq On : 27 May 2022 10:37
 Sample : 05-223-03 30X
 Misc :

Vial: 10
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:41 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2785659	679.282 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.21	1666	0.234 PPM
5) 1-Butene	4.48	210099	12.462 ppm

Handwritten: NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527010.D
Acq On : 27 May 2022 10:37
Sample : 05-223-03 30X
Misc :

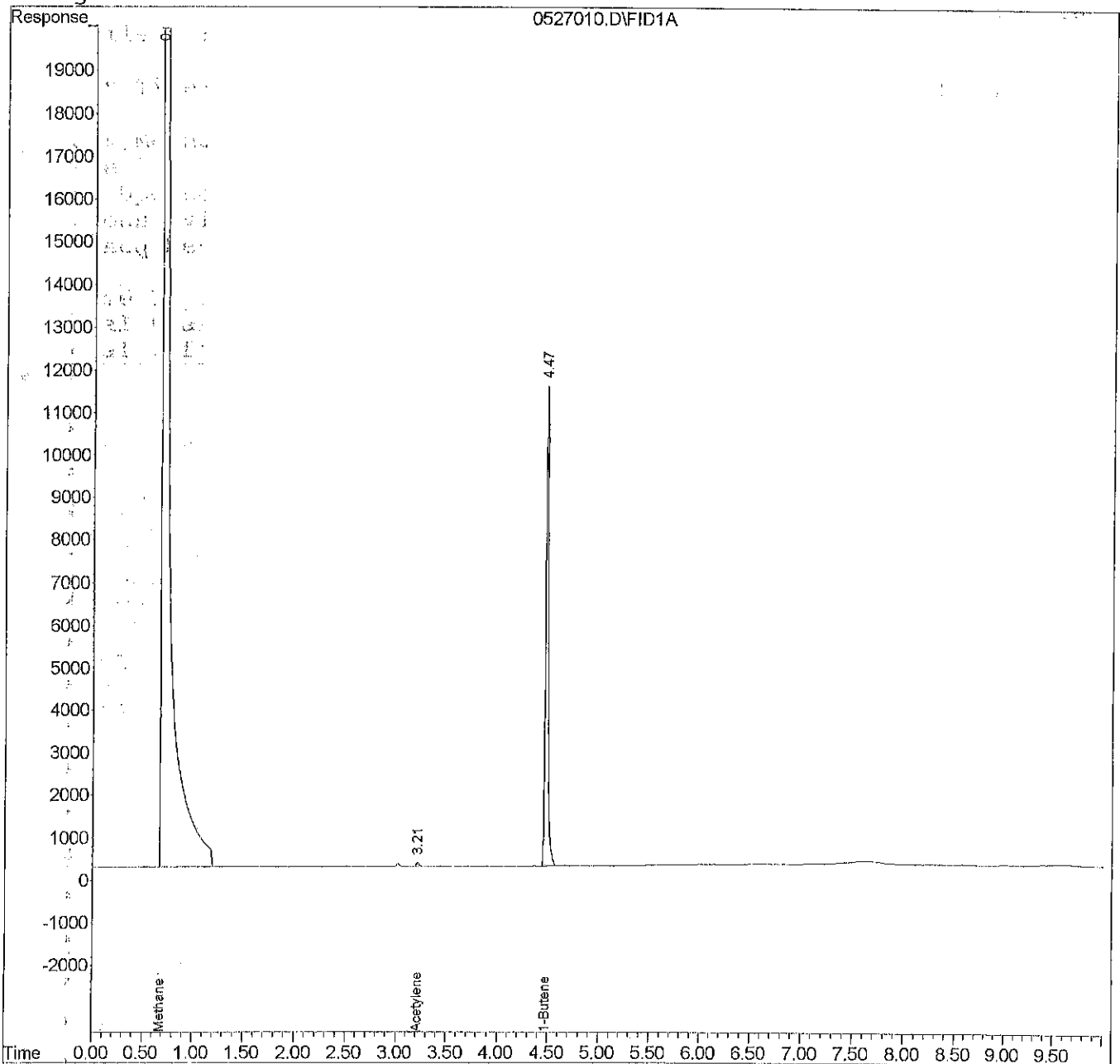
Vial: 10
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 10:41 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527012.D
 Acq On : 27 May 2022 11:09
 Sample : 05-223-04
 Misc :

Vial: 12
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 11:07 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	262657936	64268.684 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.21	51930	5.870 PPM
5) 1-Butene	4.44	6658644	400.144 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527012.D
Acq On : 27 May 2022 11:09
Sample : 05-223-04
Misc :

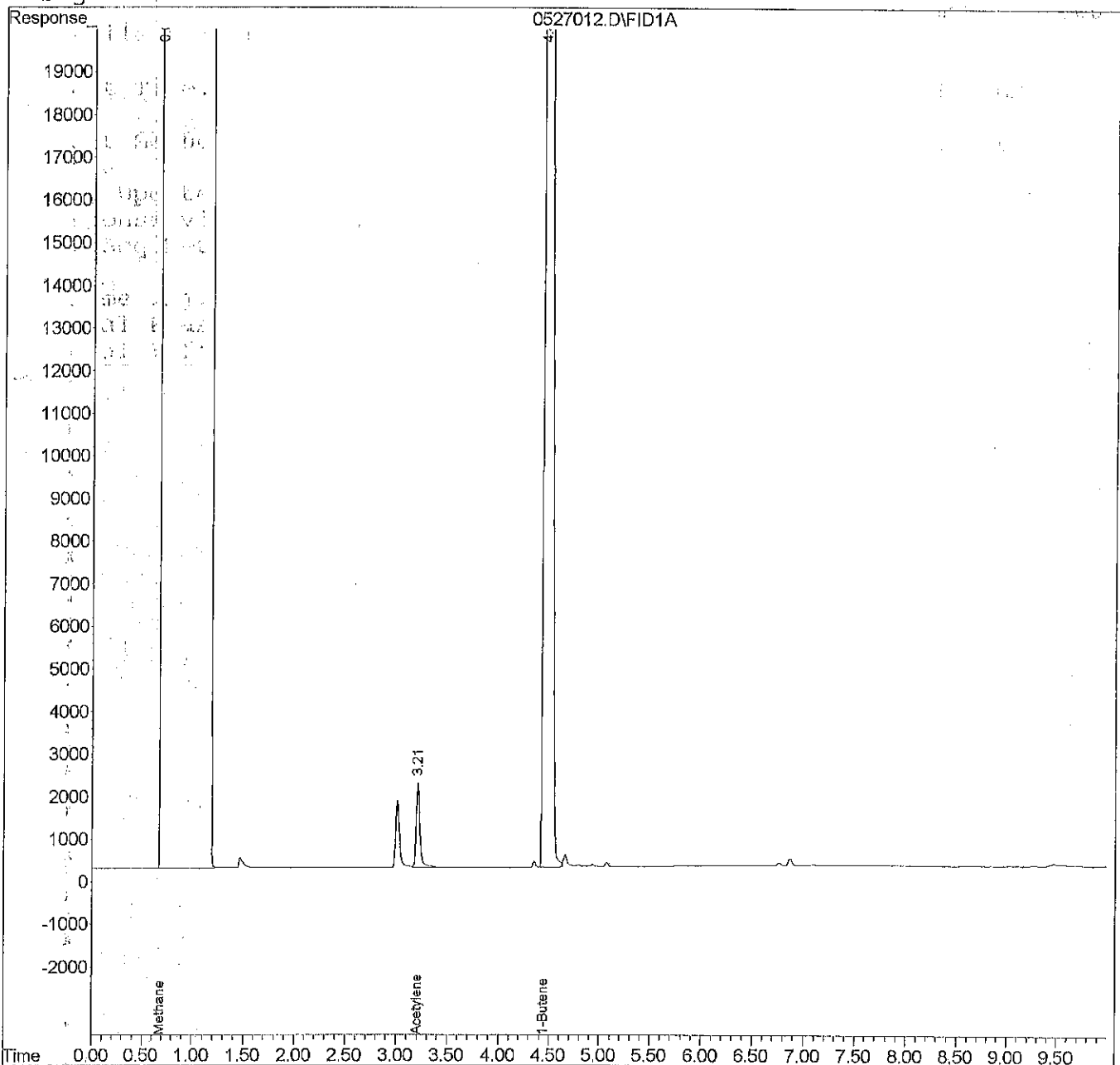
Vial: 12
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 11:07 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220527\0527014.D Vial: 14
 Acq On : 27 May 2022 11:24 Operator: NM
 Sample : 05-223-04 100X Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : autoint1.e

Quant Time: May 27 11:34 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	2929638	714.513 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	429	0.095 PPM
5) 1-Butene	4.49	61585	3.533 ppm

5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527014.D
Acq On : 27 May 2022 11:24
Sample : 05-223-04 100X
Misc :

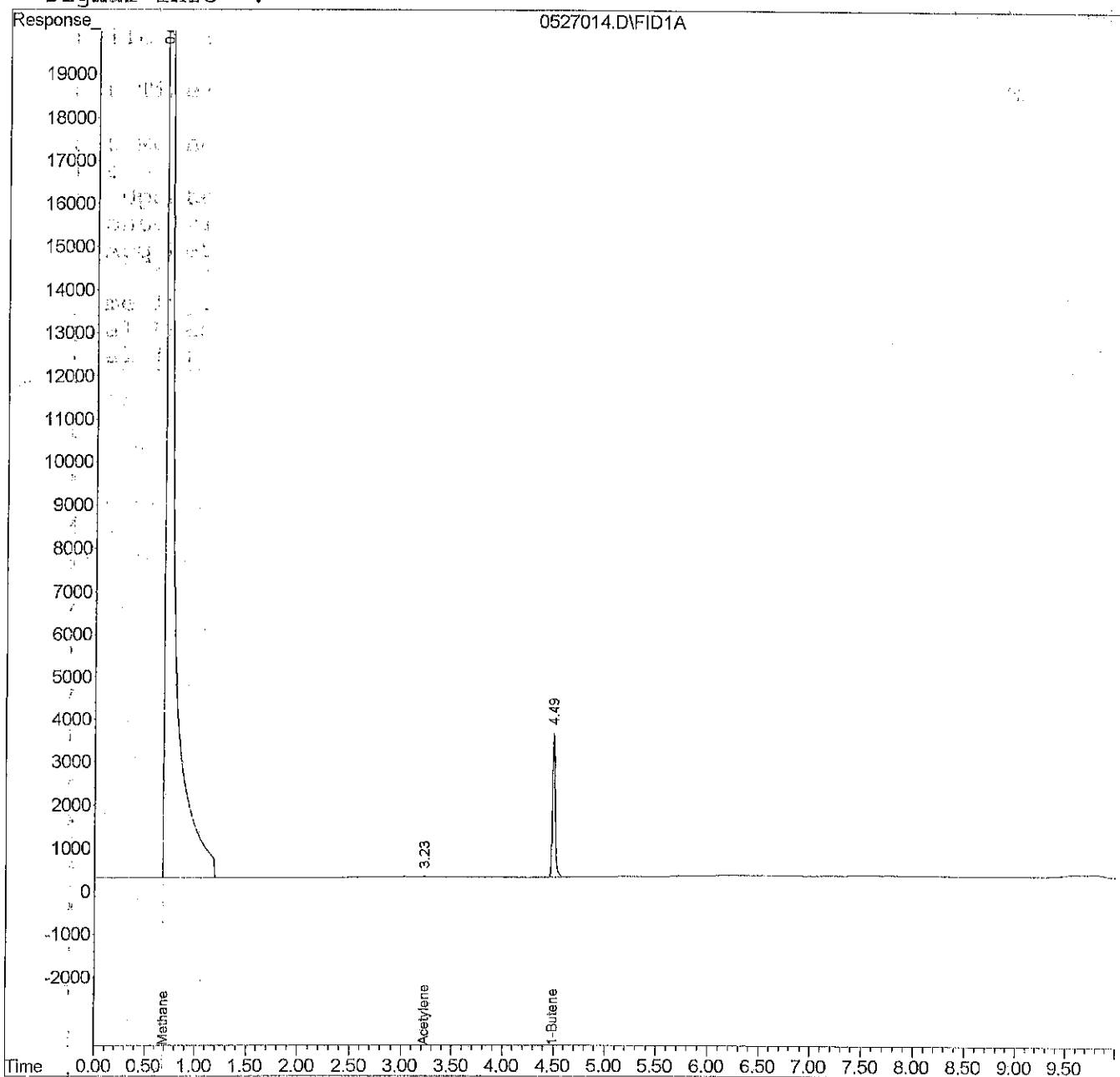
Vial: 14
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 11:34 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220527\0527015.D
 Acq On : 27 May 2022 11:39
 Sample : 05-223-05
 Misc :

Vial: 15
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 11:46 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq.Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	49137091	12021.238 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.22	95226	10.724 PPM
5) 1-Butene	4.46	7265002	436.598 ppm

5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527015.D
Acq On : 27 May 2022 11:39
Sample : 05-223-05
Misc :

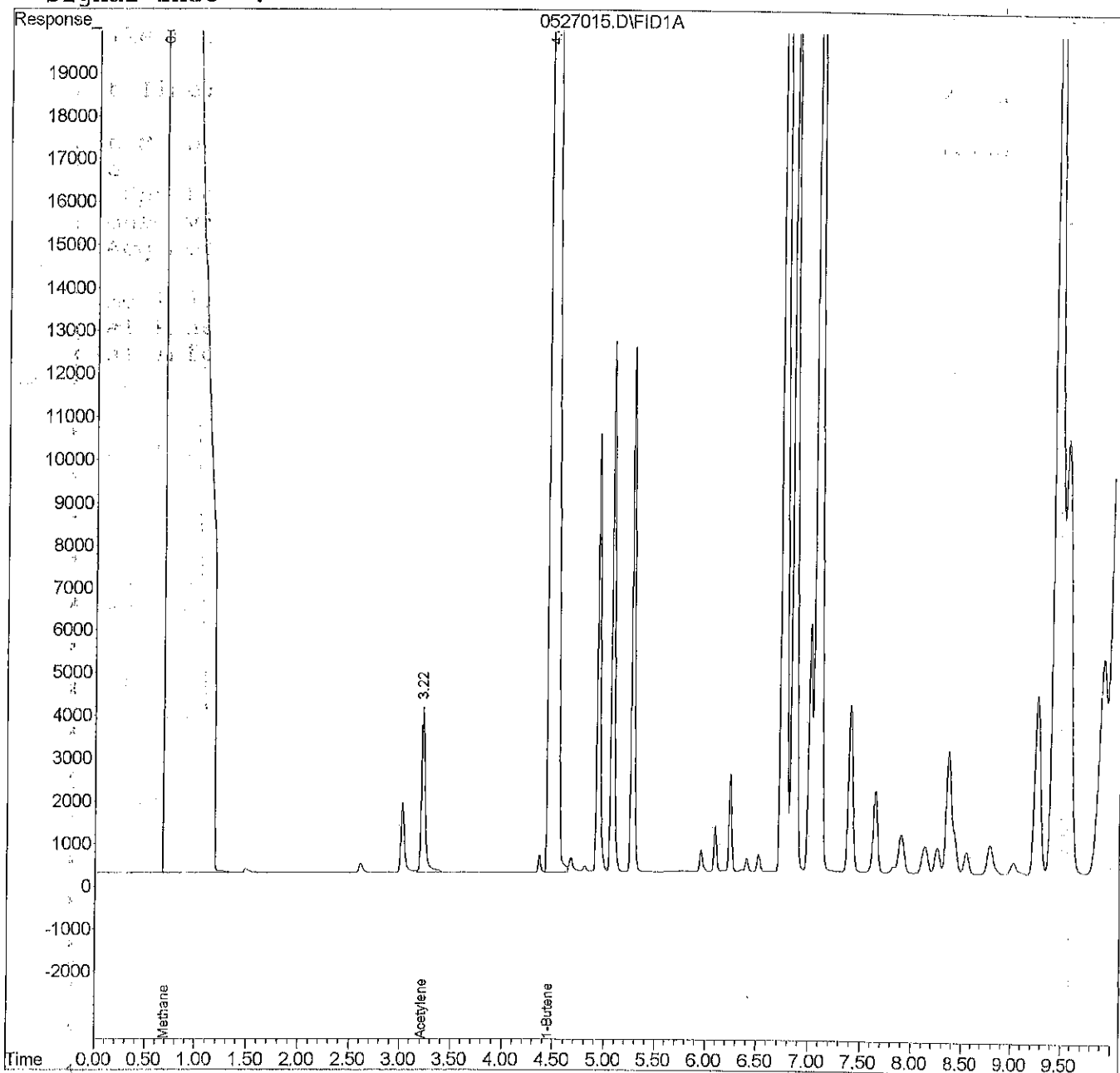
Vial: 15
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 11:46 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File: E:\1\DATA\L220527\0527016.D
 Acq On : 27 May 2022 11:54
 Sample : 05-223-05 20X
 Misc :

Vial: 16
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:02 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.70	2610203	636.349 ppm
2)	Ethane	0.00	0	N.D. ppm
3)	Ethene	0.00	0	N.D. ppm
4)	Acetylene	3.23	58204	6.573 PPM
5)	1-Butene	4.50	366698	21.876 ppm

NM
5/27/22

Quantitation Report

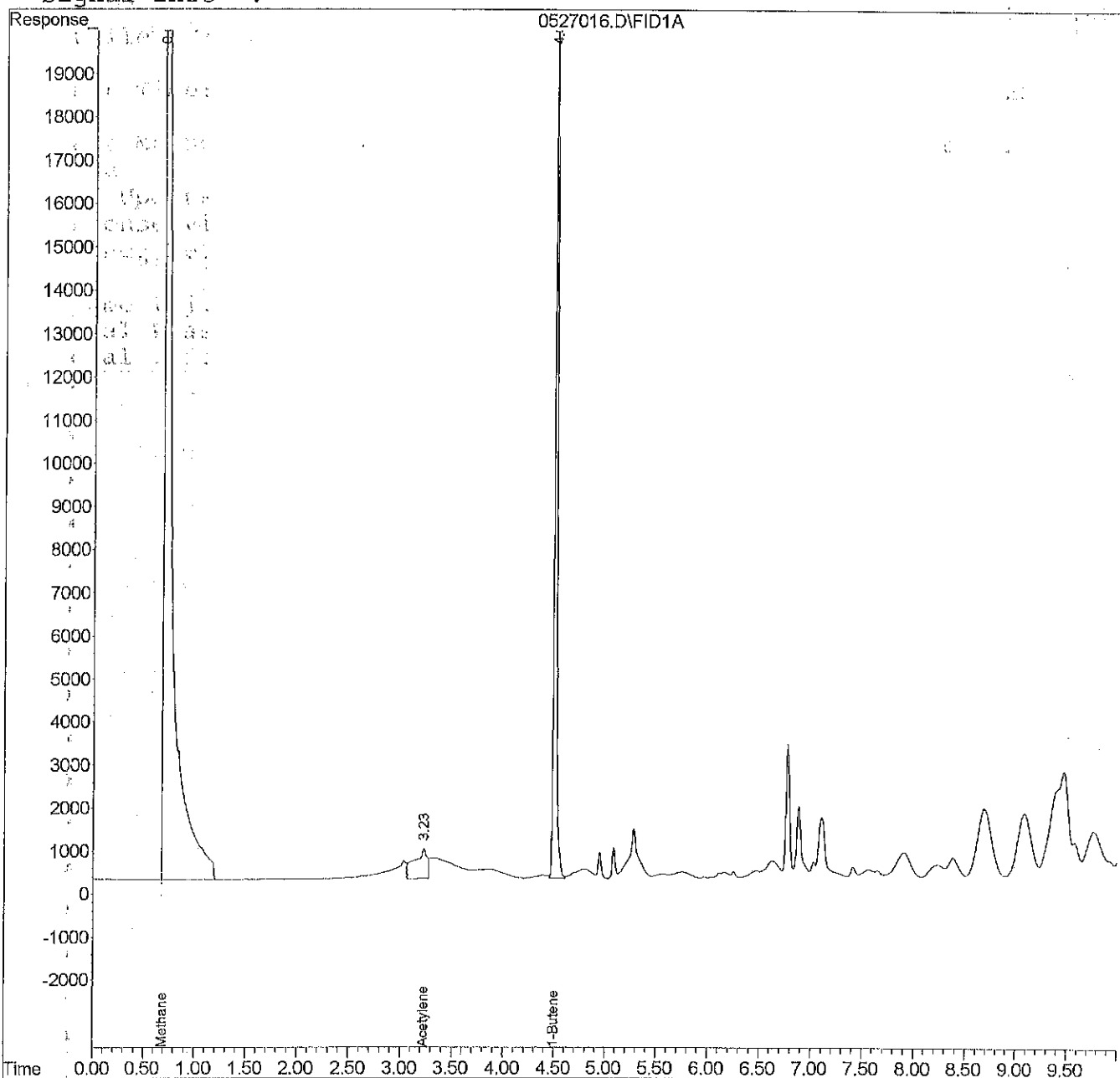
Data File : E:\1\DATA\L220527\0527016.D
Acq On : 27 May 2022 11:54
Sample : 05-223-05 20X
Misc :
IntFile : autoint1.e

Vial: 16
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: May 27 12:02 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527017.D
 Acq On : 27 May 2022 12:09
 Sample : 05-223-06
 Misc :

Vial: 17
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:28 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.69	17904651	4378.821 ppm
2)	Ethane	0.83	5527	0.210 ppm m
3)	Ethene	0.00	0	N.D. ppm
4)	Acetylene	3.22	111644	12.565 PPM
5)	1-Butene	4.47	7380590	443.547 ppm

MM
 5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527017.D

Acq On : 27 May 2022 12:09

Sample : 05-223-06

Misc :

Vial: 17

Operator: NM

Inst : LUCY

Multiplr: 1.00

Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:28 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)

Title : Gases

Last Update : Thu Apr 21 14:00:45 2022

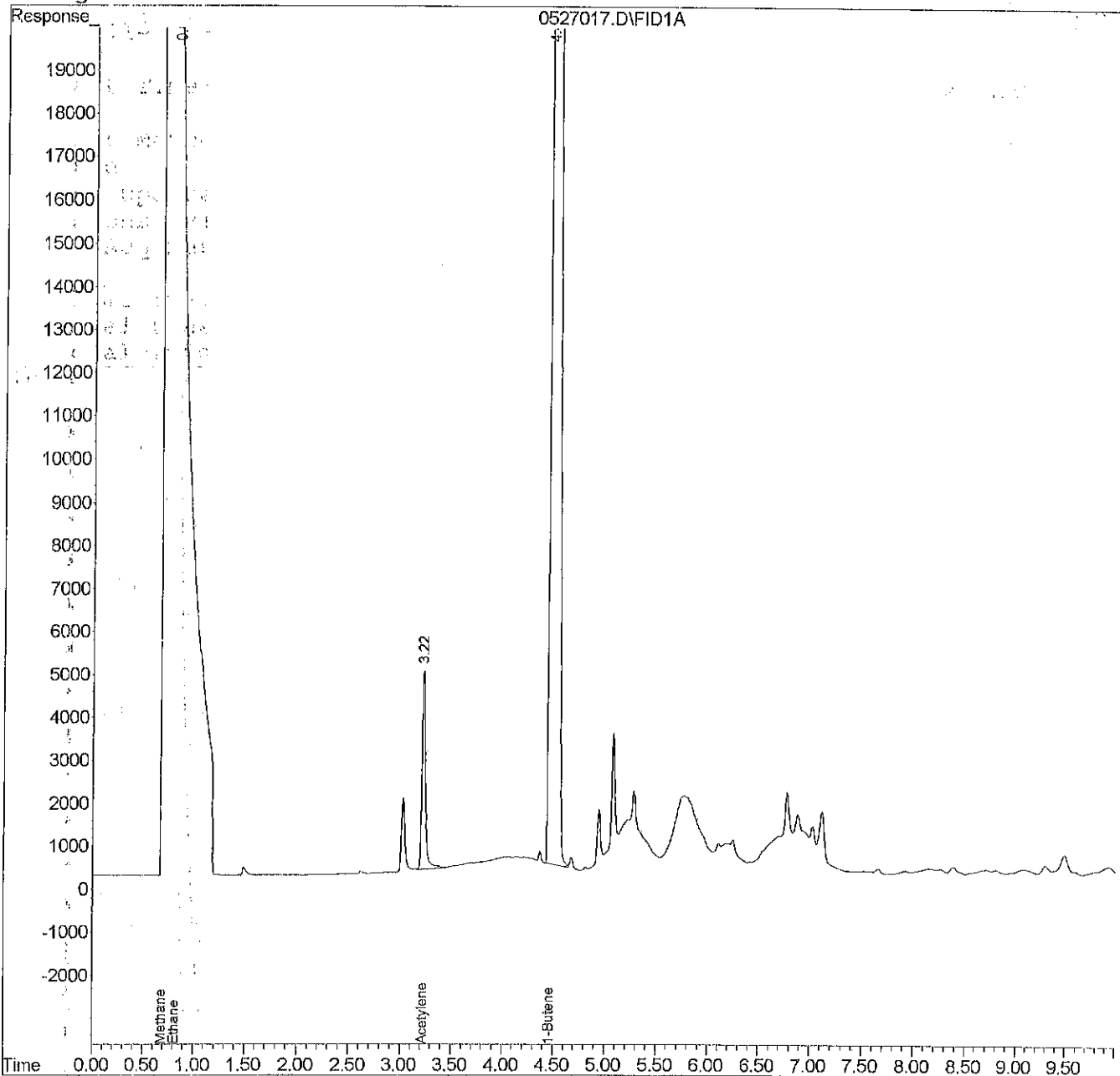
Response via : Multiple Level Calibration

DataAcq Meth : L220421.M

Volume Inj. :

Signal Phase :

Signal Info :



Data File : E:\1\DATA\L220527\0527018.D
 Acq On : 27 May 2022 12:24
 Sample : 05-223-06 10X
 Misc :

Vial: 18
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:27 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) Methane	0.69	1950841	475.007	ppm m
2) Ethane	0.83	2625	N.D.	ppm m
3) Ethene	0.00	0	N.D.	ppm
4) Acetylene	3.23	11678	1.357	PPM
5) 1-Butene	4.50	756321	45.300	ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527018.D
Acq On : 27 May 2022 12:24
Sample : 05-223-06 10X
Misc :

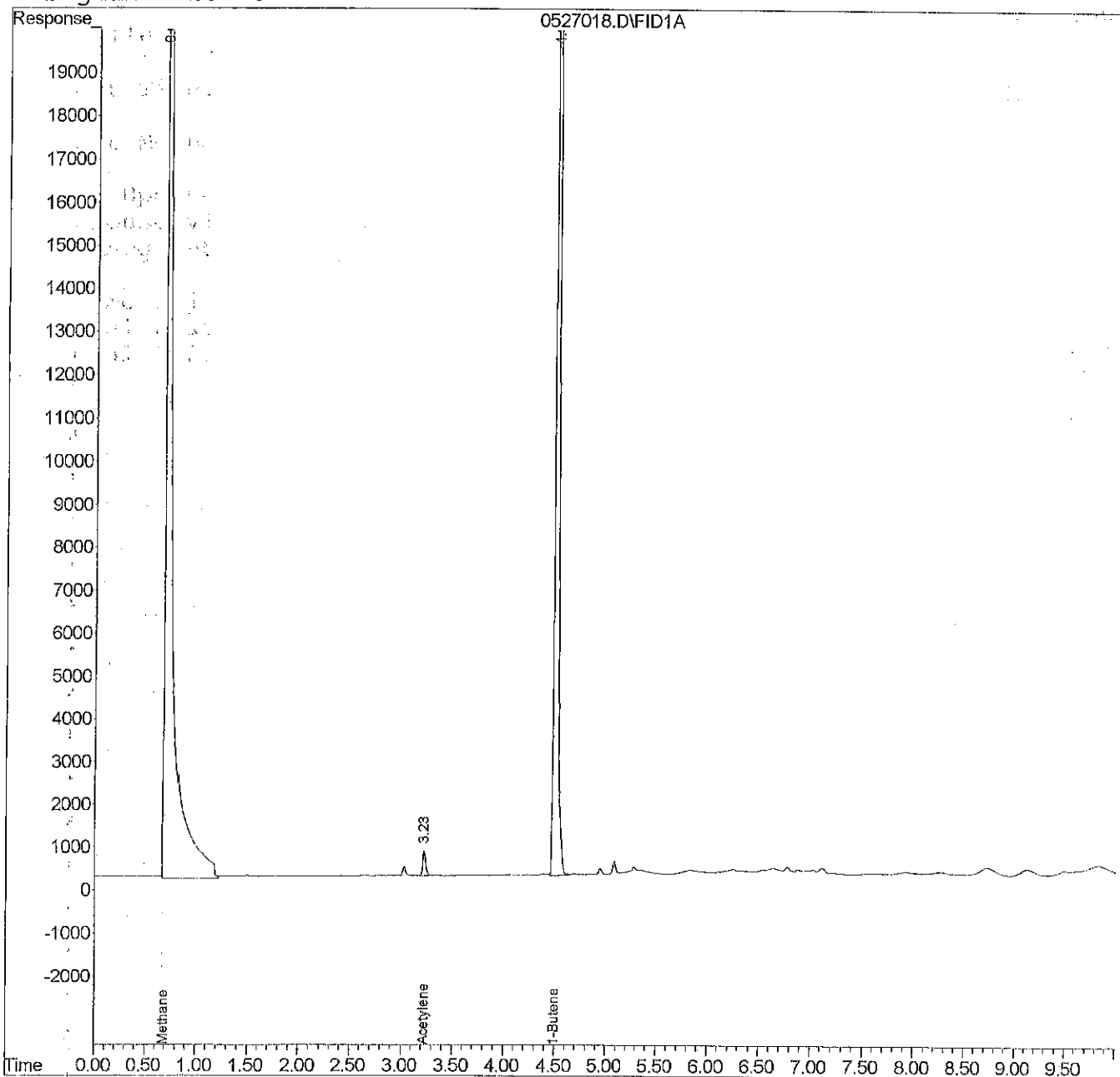
Vial: 18
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:27 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527020.D
 Acq On : 27 May 2022 12:54
 Sample : 05-223-07
 Misc :

Vial: 20
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:56 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	10137916	2478.342 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	62311	7.034 PPM
5) 1-Butene	4.47	7835087	470.871 ppm

Nm
5/22/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527020.D
Acq On : 27 May 2022 12:54
Sample : 05-223-07
Misc :

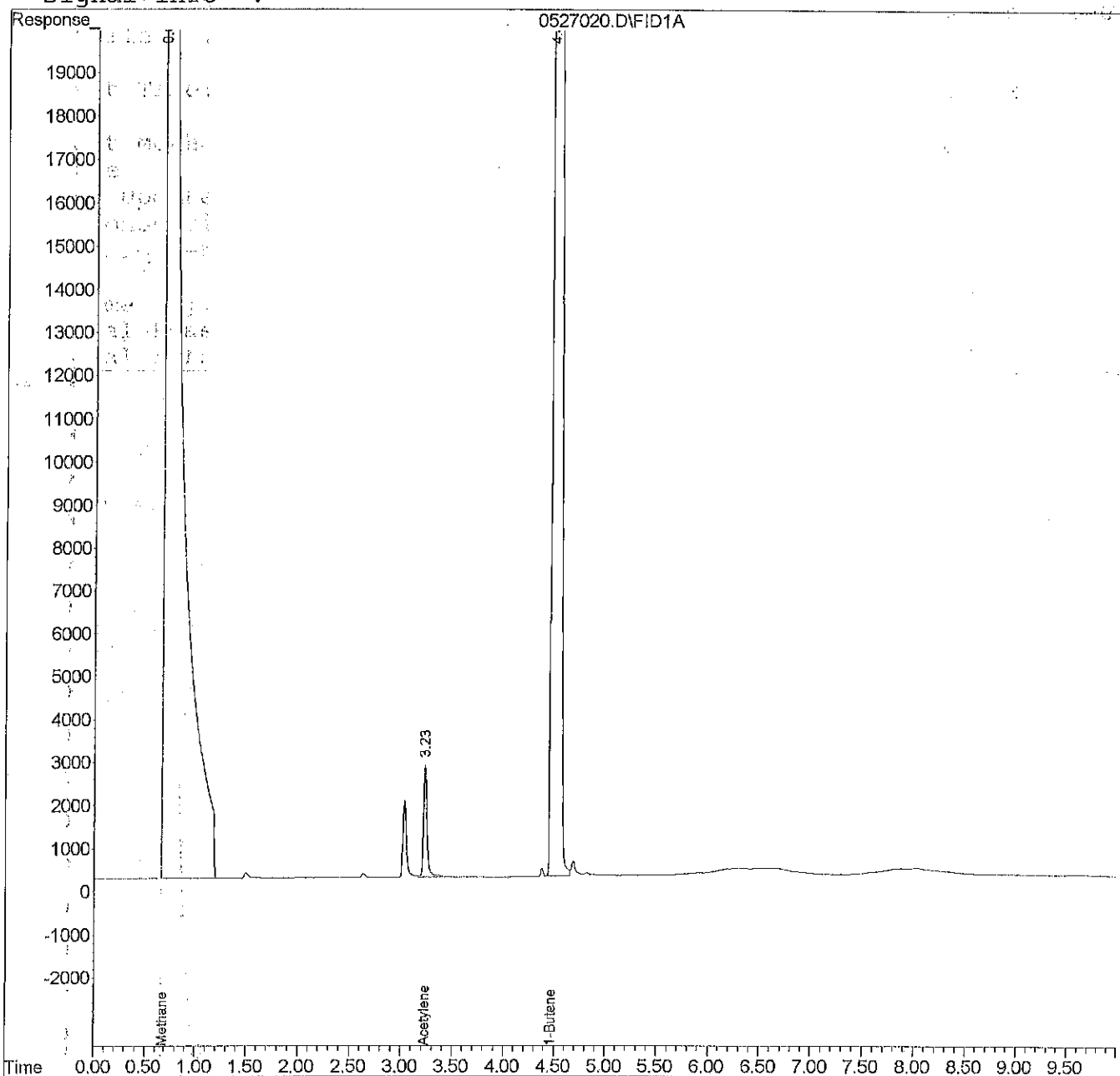
Vial: 20
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:56 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527021.D
 Acq On : 27 May 2022 13:09
 Sample : 05-223-07 6X
 Misc :

Vial: 21
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 13:09 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	1848936	450.071 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	10126	1.183 PPM
5) 1-Butene	4.50	1344827	80.681 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527021.D
Acq On : 27 May 2022 13:09
Sample : 05-223-07 6X
Misc :

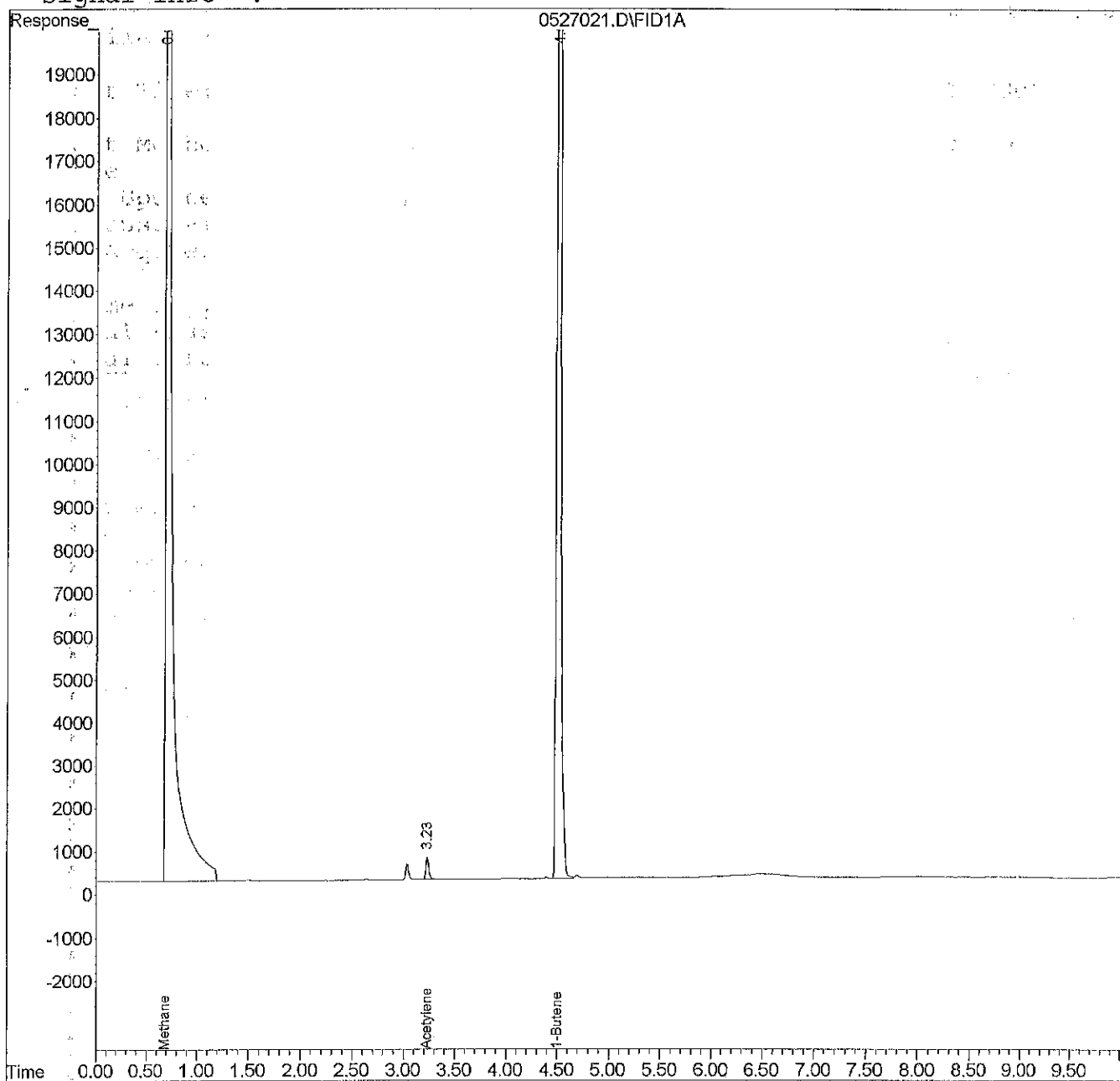
Vial: 21
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 13:09 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527022.D
 Acq On : 27 May 2022 13:24
 Sample : 05-223-08
 Misc :

Vial: 22
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 13:24 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	17324560	4236.876 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	59371	6.704 PPM
5) 1-Butene	4.47	7331284	440.583 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527022.D
Acq On : 27 May 2022 13:24
Sample : 05-223-08
Misc :

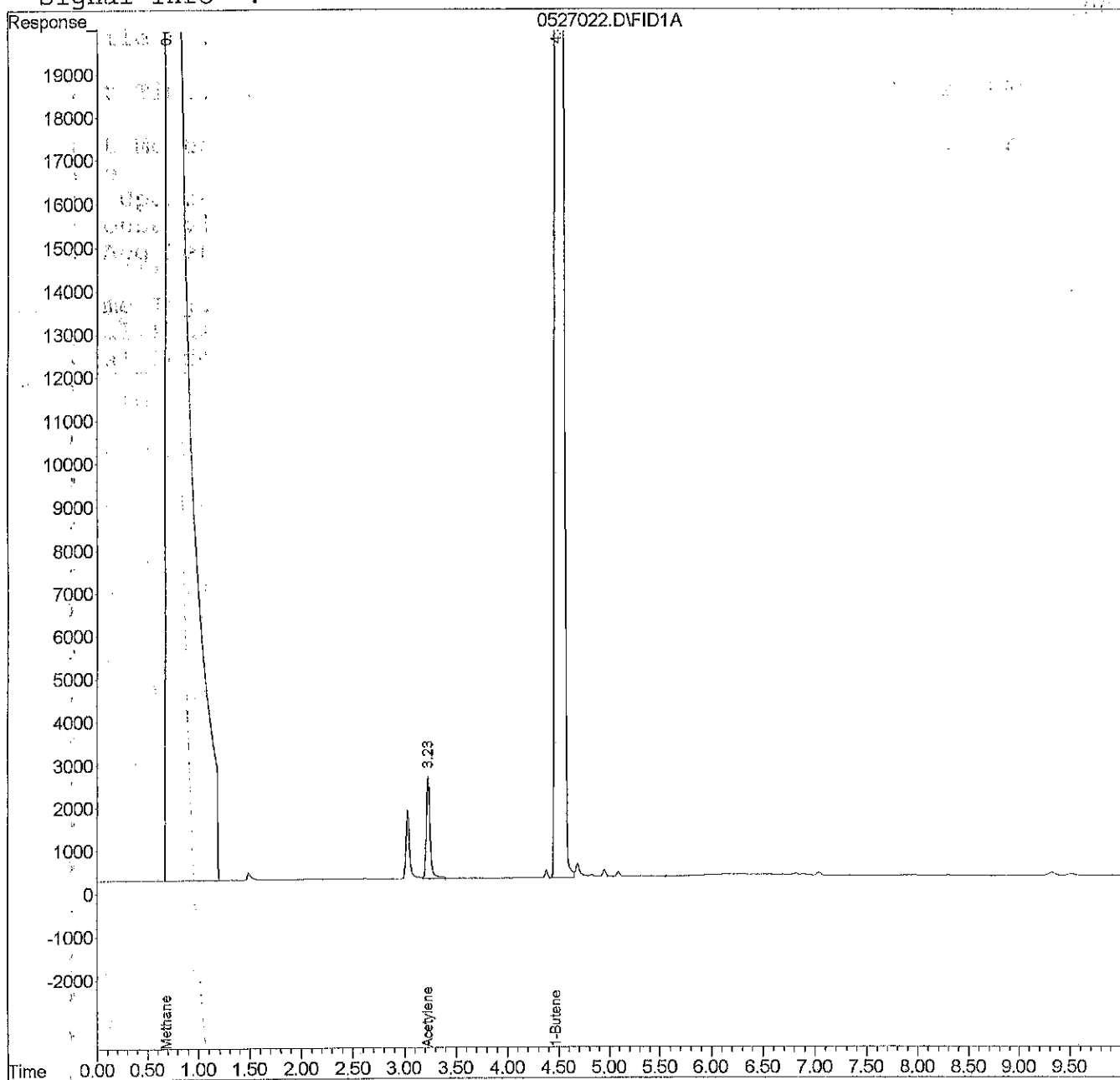
Vial: 22
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 13:24 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527023.D
 Acq On : 27 May 2022 13:39
 Sample : 05-223-08 10X
 Misc :

Vial: 23
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 13:50 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.69	1891221	460.418 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	5845	0.703 PPM
5) 1-Butene	4.50	758690	45.443 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527023.D
Acq On : 27 May 2022 13:39
Sample : 05-223-08 10X
Misc :

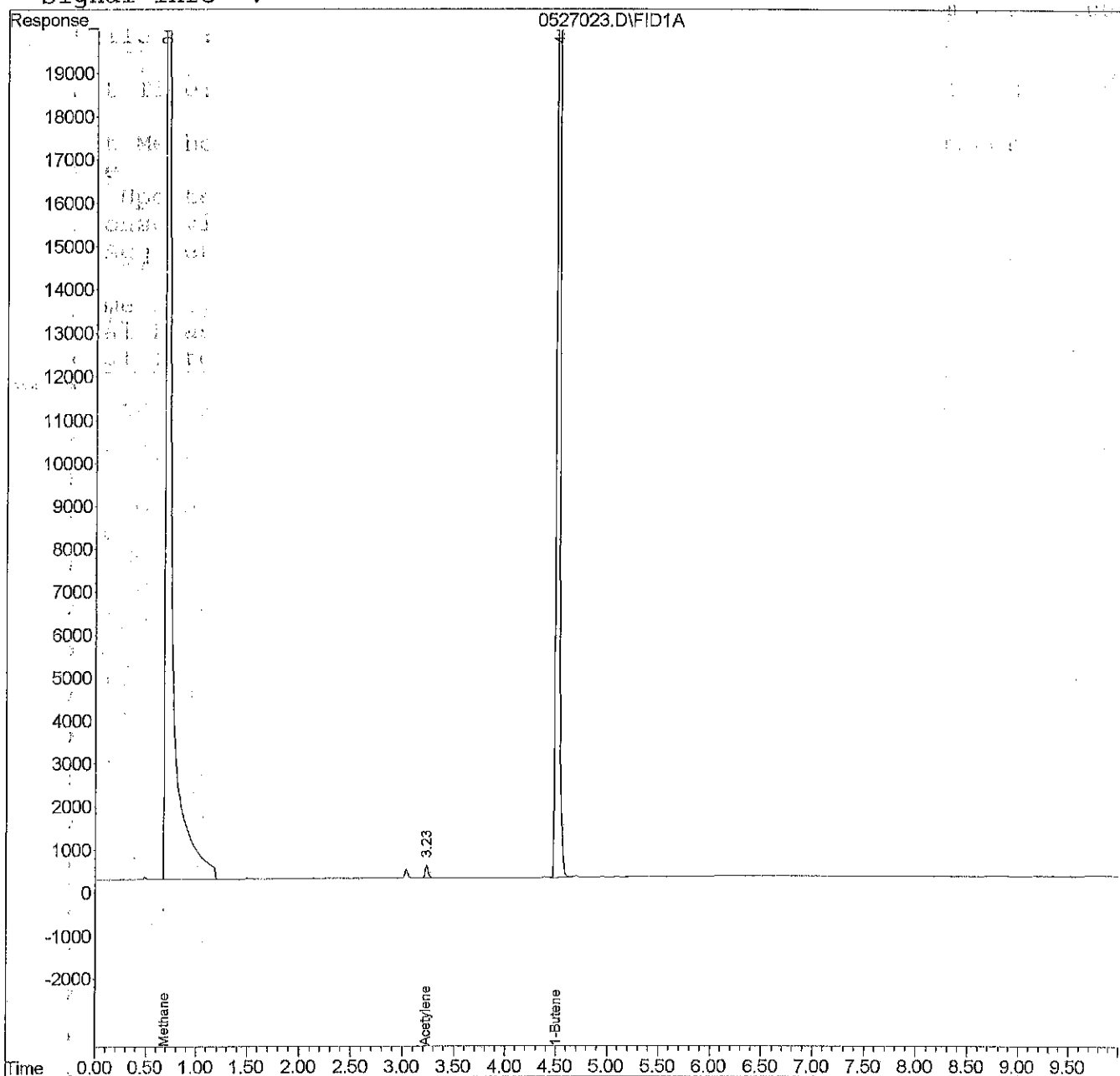
Vial: 23
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 13:50 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527024.D
 Acq On : 27 May 2022 13:54
 Sample : 05-223-09
 Misc :

Vial: 24
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 14:04 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	18142312	4436.976 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.22	58404	6.596 PPM
5) 1-Butene	4.46	7183381	431.691 ppm

5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527024.D
Acq On : 27 May 2022 13:54
Sample : 05-223-09
Misc :

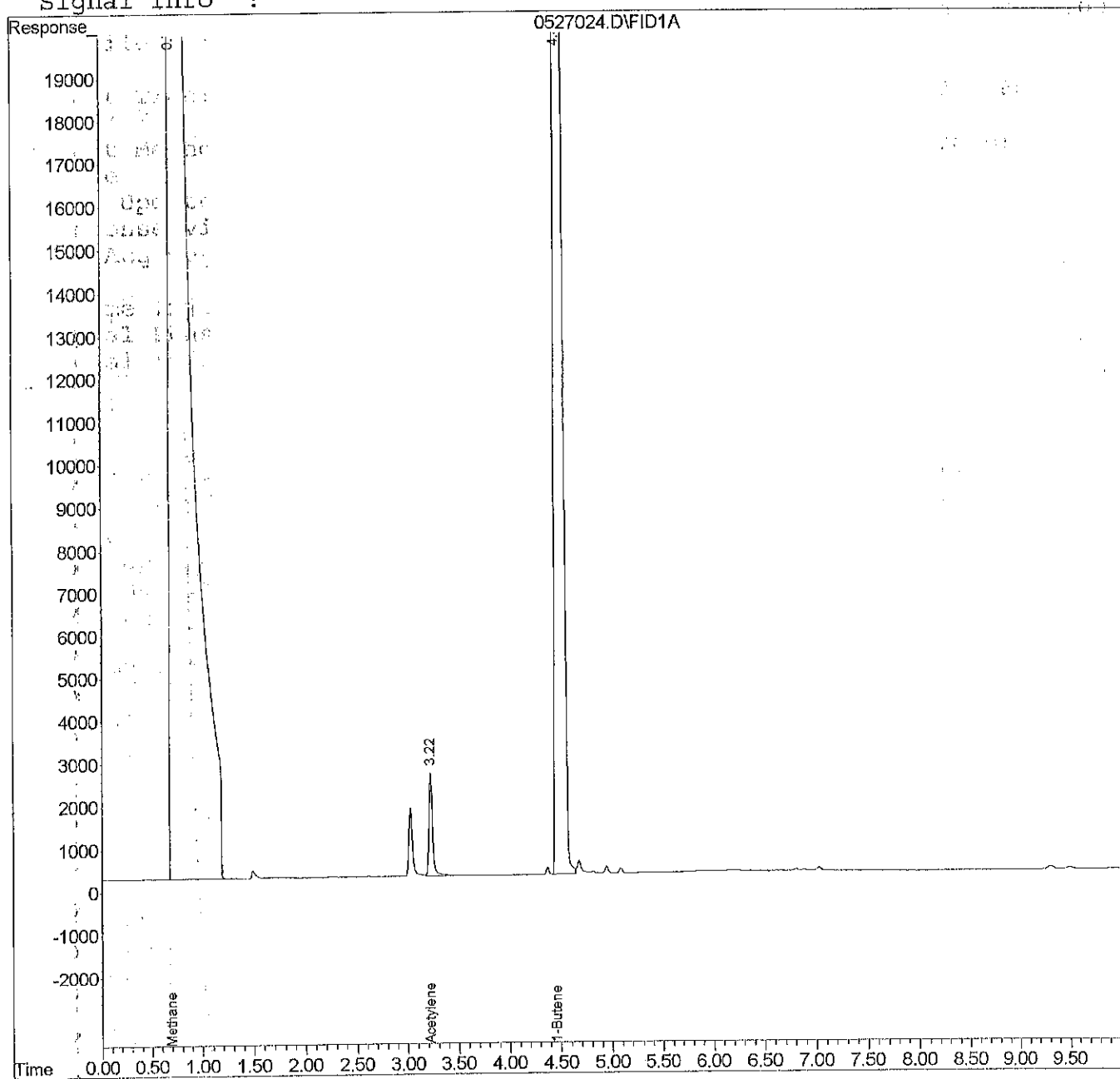
Vial: 24
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 14:04 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj :
Signal Phase :
Signal Info :



Data File: E:\1\DATA\L220527\0527026.D
 Acq On : 27 May 2022 14:24
 Sample : 05-223-09 10X
 Misc :

Vial: 26
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 14:28 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	2018132	491.472 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	6250	0.748 PPM
5) 1-Butene	4.50	748024	44.801 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527026.D
Acq On : 27 May 2022 14:24
Sample : 05-223-09 10X
Misc :

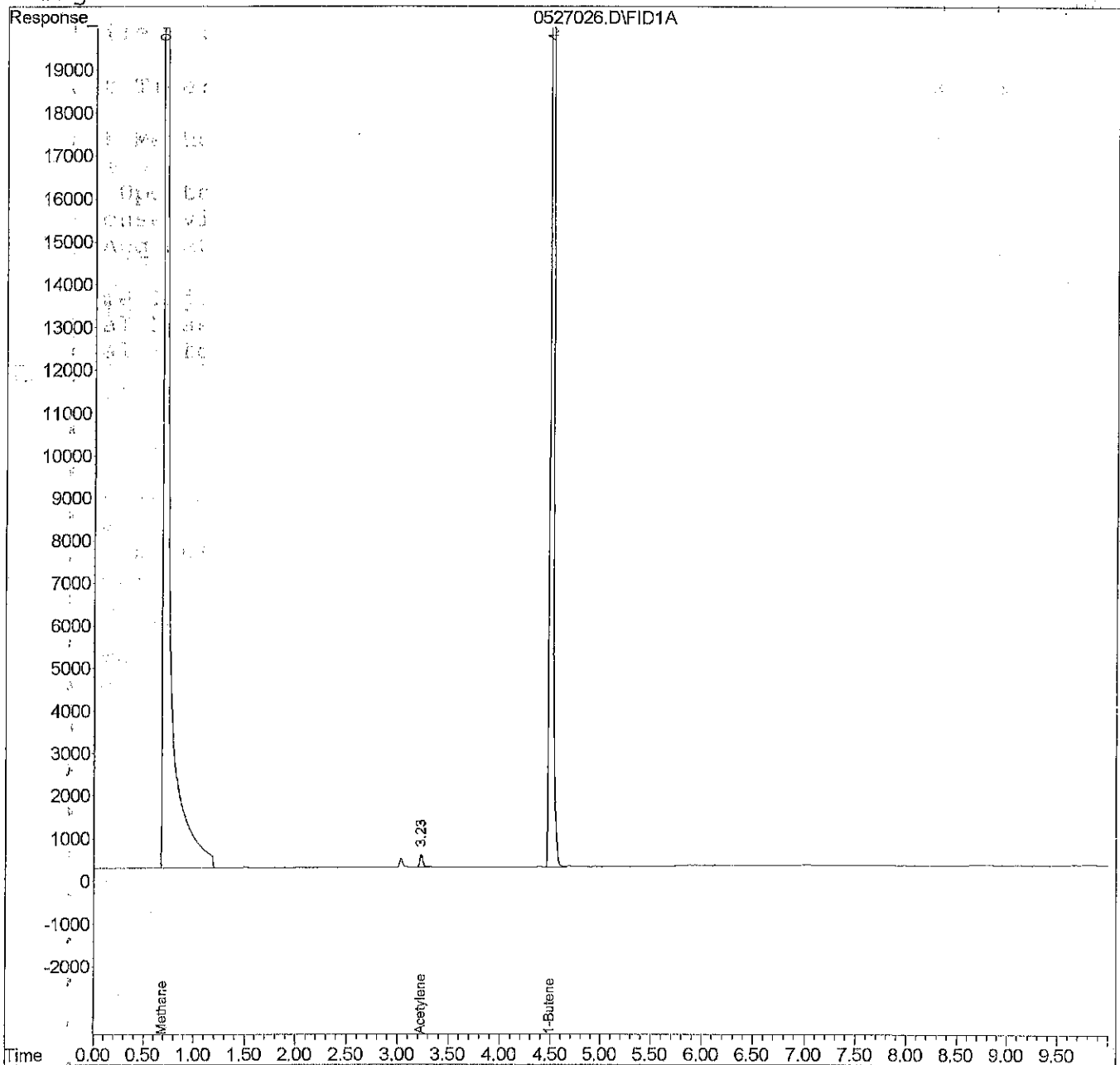
Vial: 26
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 14:28 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527003.D
 Acq On : 27 May 2022 8:36
 Sample : MB0527W1
 Misc :

Vial: 3
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 8:36 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.74	8704	N.D.	ppm
2)	Ethane	0.84	1722	N.D.	ppm
3)	Ethene	0.00	0	N.D.	ppm d
4)	Acetylene	0.00	0	N.D.	PPM d
5)	1-Butene	4.41	10691674	642.607	ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527003.D
Acq On : 27 May 2022 8:36
Sample : MB0527W1
Misc :

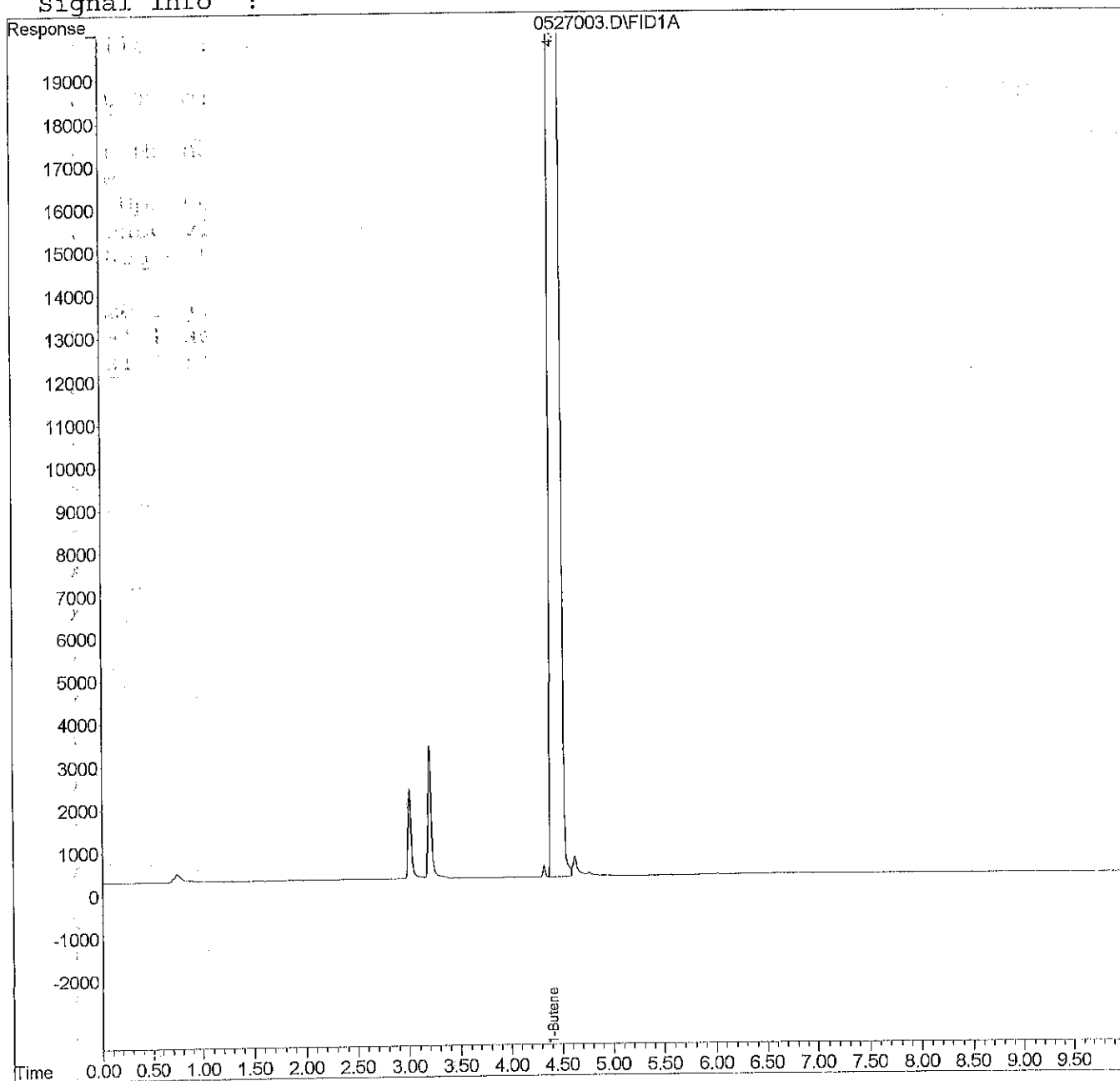
Vial: 3
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 8:36 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : e:\1\DATA\L220527\0527004.D
 Acq On : 27 May 2022 8:51
 Sample : SB0527W1
 Misc :

Vial: 4
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 8:57 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.70	1441779	350.442 ppm
2) Ethane	0.84	2805489	320.367 ppm
3) Ethene	1.06	2101185	229.487 ppm
4) Acetylene	3.22	442415	49.651 PPM
5) 1-Butene	4.44	3745995	225.038 ppm

Quantitation Report

Data File : e:\1\DATA\L220527\0527004.D
Acq On : 27 May 2022 8:51
Sample : SB0527W1
Misc :

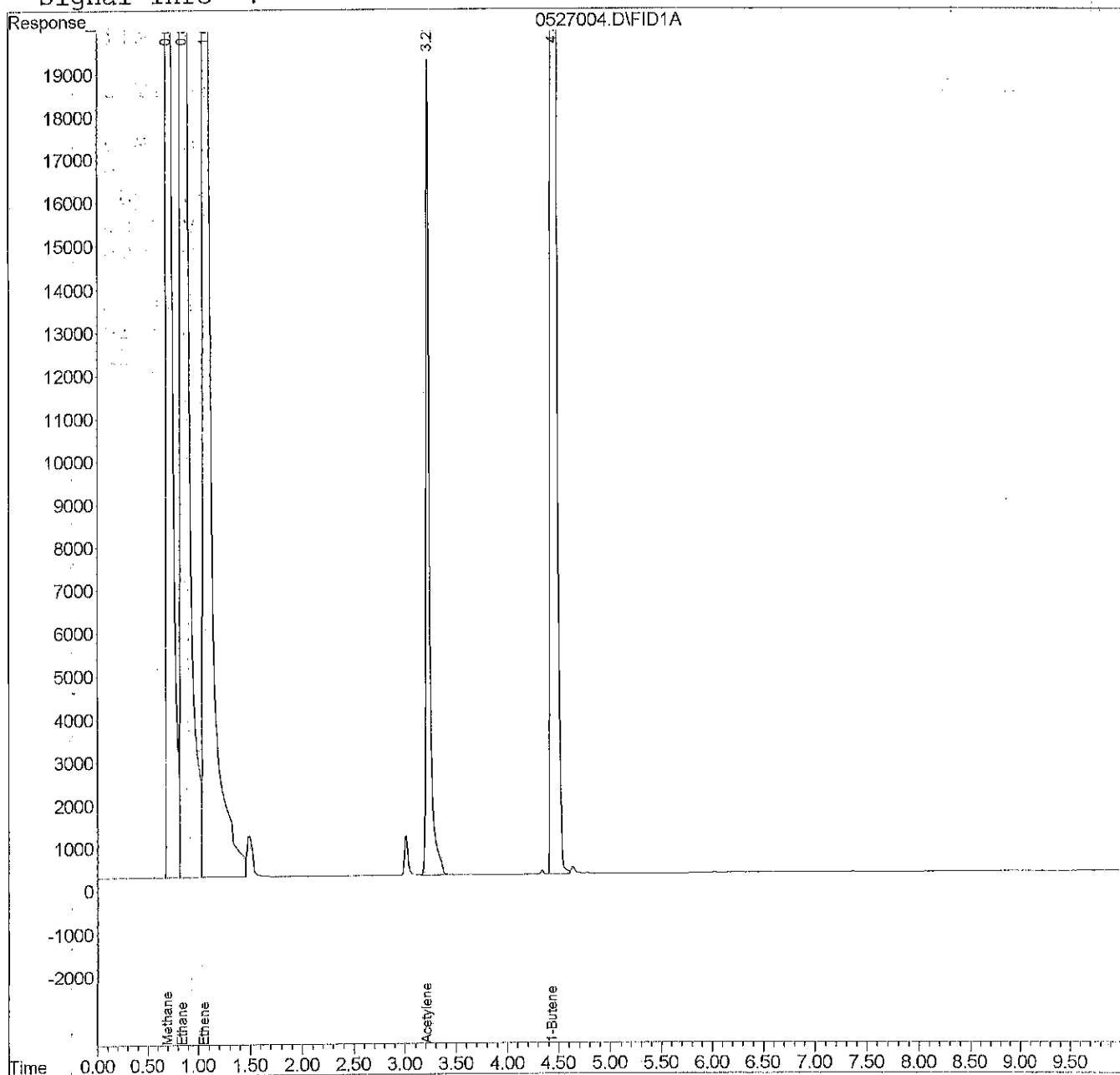
Vial: 4
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 8:57 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : e:\1\DATA\L220527\0527005.D Vial: 5
 Acq On : 27 May 2022 9:06 Operator: NM
 Sample : SB0527W1 DUP Inst : LUCY
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 9:10 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.69	1506156	366.195 ppm
2) Ethane	0.84	2921513	333.633 ppm
3) Ethene	1.06	2180523	238.156 ppm
4) Acetylene	3.22	445919	50.043 PPM
5) 1-Butene	4.44	3889090	233.640 ppm

Quantitation Report

Data File : e:\1\DATA\L220527\0527005.D
Acq On : 27 May 2022 9:06
Sample : SB0527W1 DUP
Misc :

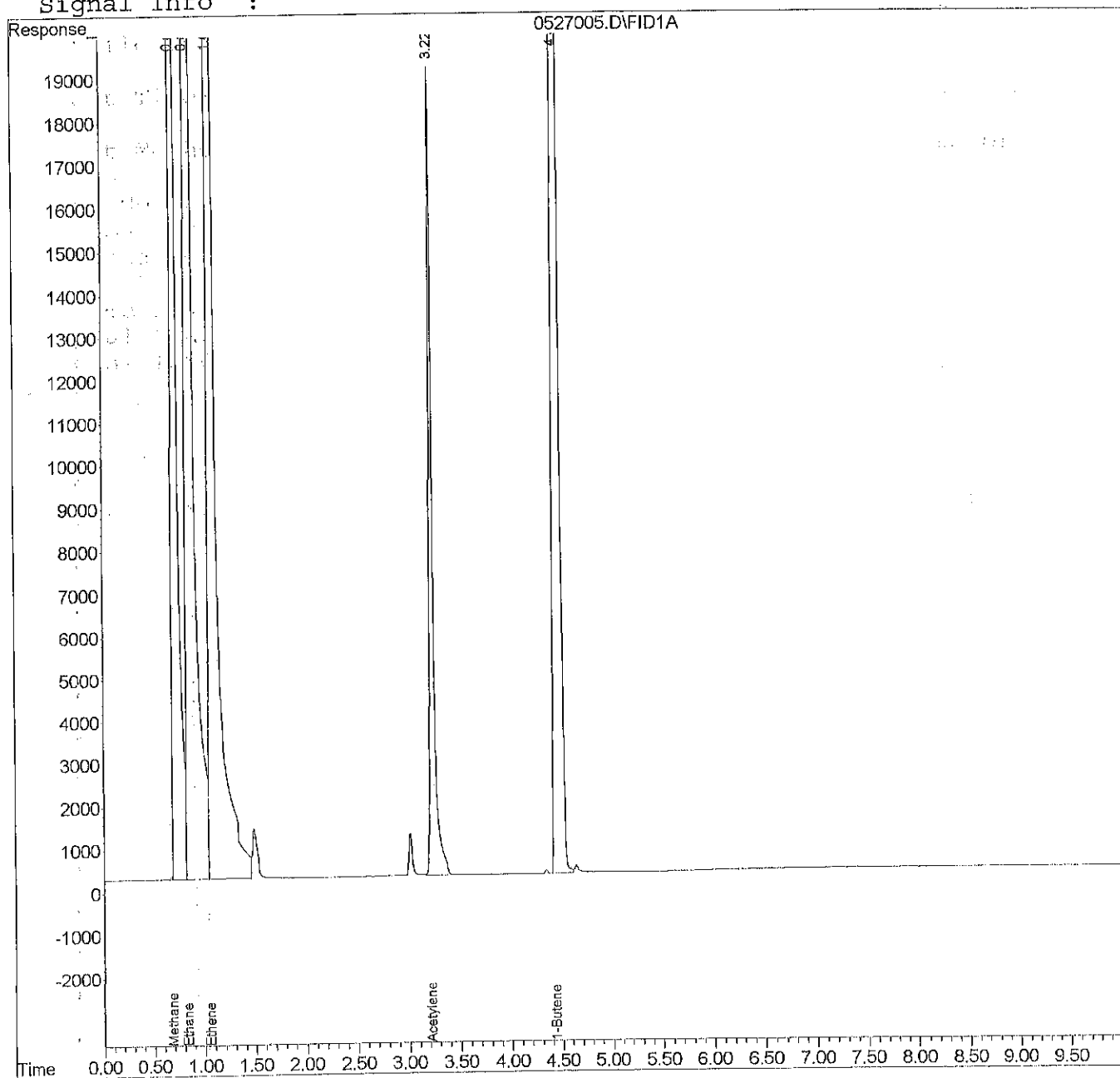
Vial: 5
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 9:10 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527002.D
Acq On : 27 May 2022 8:06
Sample : CCV0527DG-L1
Misc : DG1-003-15

Vial: 2
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 8:15 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Initial Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Methane	0.67	1956390	476.365 ppm
2)	Ethane	0.83	4085123	466.684 ppm
3)	Ethene	1.04	4322904	472.238 ppm
4)	Acetylene	3.15	4295570	481.663 PPM
5)	1-Butene	4.41	7838775	471.093 ppm

NM
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527002.D
Acq On : 27 May 2022 8:06
Sample : CCV0527DG-L1
Misc : DG1-003-15

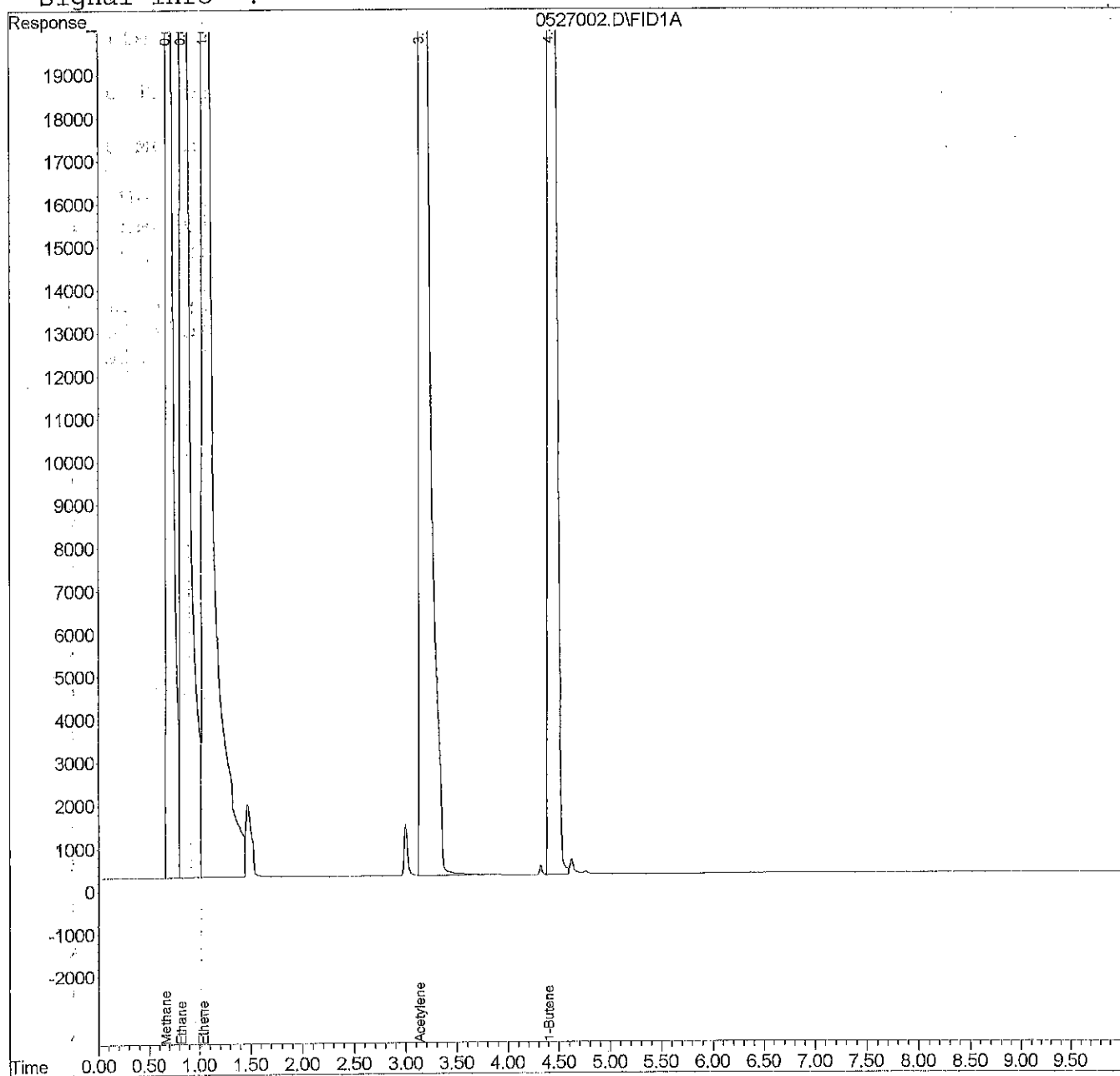
Vial: 2
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 8:15 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220527\0527019.D
 Acq On : 27 May 2022 12:39
 Sample : CCV0527DG-L2
 Misc :

Vial: 19
 Operator: NM
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:48 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220421.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	1971260	480.003 ppm
2) Ethane	0.84	4159411	475.179 ppm
3) Ethene	1.07	4346749	474.843 ppm
4) Acetylene	3.26	4275690	479.434 PPM m
5) 1-Butene	4.47	7921862	476.088 ppm

Nm
5/27/22

Quantitation Report

Data File : E:\1\DATA\L220527\0527019.D
Acq On : 27 May 2022 12:39
Sample : CCV0527DG-L2
Misc :

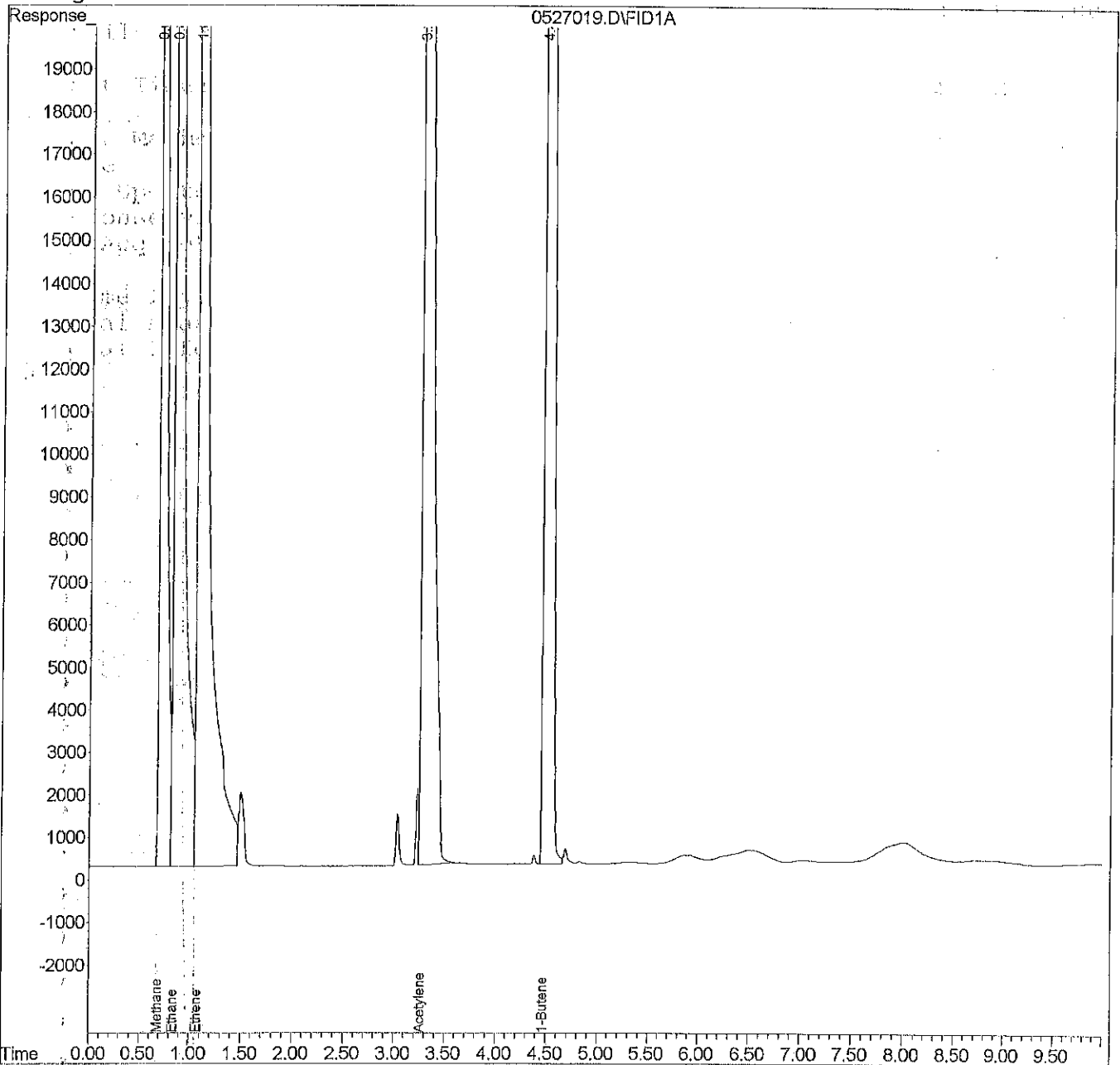
Vial: 19
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 12:48 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj :
Signal Phase :
Signal Info :



Data File : e:\1\DATA\L220527\0527028.D
Acq On : 27 May 2022 14:54
Sample : CCV0527DG-L3
Misc :

Vial: 28
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 14:53 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Initial Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1940403	472.453 ppm
2) Ethane	0.85	4095239	467.841 ppm
3) Ethene	1.08	4280161	467.568 ppm
4) Acetylene	3.25	4236913	475.086 PPM
5) 1-Butene	4.46	7785042	467.862 ppm

Quantitation Report

Data File : e:\1\DATA\L220527\0527028.D
Acq On : 27 May 2022 14:54
Sample : CCV0527DG-L3
Misc :

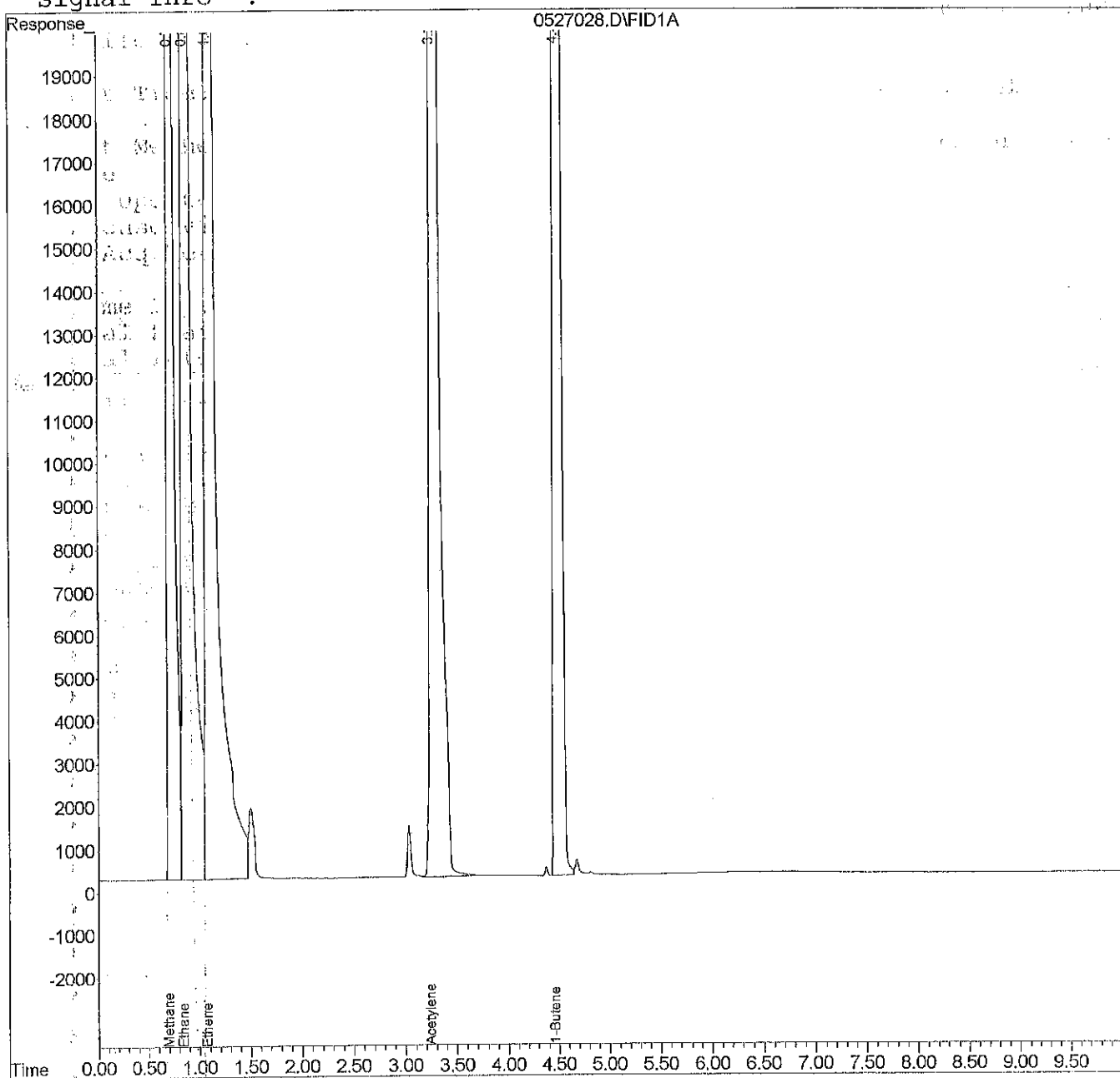
Vial: 28
Operator: NM
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: May 27 14:53 2022 Quant Results File: L220421.RES

Quant Method : E:\1\METHODS\L220421.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220421.M

Volume Inj. :
Signal Phase :
Signal Info :



Alkalinity
SM 2320B Data

Alkalinity
Method SM2320 B

Date Analyzed: 5/25/22
 Analyst: PFD
 Titrant Lot #: 2150561100

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 0525W1	0.02	50	8	8	0.1	
SB 0525W1		25	8	8	2.45 - 0.1 = 2.35	Spike ID = WVL1-027-15
05-223-01e					10 - 2.45 = 7.55 + 0.4 = 7.95	
05-223-01eDup					8.45 - 0.4 = 8.05	refill
05-223-02e					3.70	
-03e					9.65 - 3.7 = 5.95	refill
-04e					9.85	refill
05-223-05e					6.05	refill
-06e					5.20	refill
-07e					2.70	
-08e				PFD/25	9.5 - 2.7 = 6.80	refill
-09e			7.43 8		6.95	refill
05-235-01f			7.43	8	2.95	
-02f			7.55	8	2.35 2.95	PFD/25
-03f			7.51	8	5.25 - 2.35 = 2.90	
-04f			7.75	8	8.05 - 5.25 = 2.80	

Total Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\05 May 2022\I220523W1.wszf

Creation Date: 5/23/2022 11:19:24 AM

Comment:

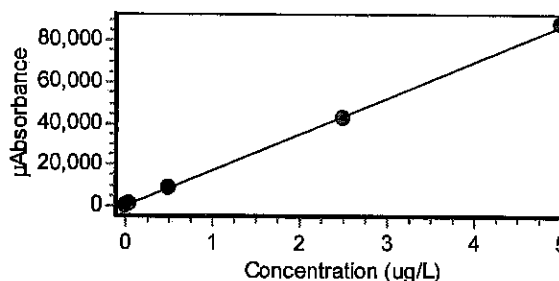
KDM
5-23-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	05/23/22 11:49:51 am	0.00000	115	8.26			N/A
Standard #1	STD	05/23/22 11:52:23 am	0.01000	228	5.44	-34.91%		N/A
Standard #2	STD	05/23/22 11:54:54 am	0.05000	909	1.47	-9.20%		N/A
Standard #3	STD	05/23/22 11:57:27 am	0.50000	8725	0.41	-1.54%		N/A
Standard #4	STD	05/23/22 11:59:59 am	2.50000	42664	0.34	-2.70%		N/A
Standard #5	STD	05/23/22 12:02:31 pm	5.00000	88176	0.24	0.69%		N/A

Calibration

Equation: Abs = 17491.449x + 114.514
 R2: 0.99969 RSE: 20.92%
 SEE: 771.3353
 Flegs:



ICV	ICV	05/23/22 12:07:08 pm	2.42820	42587	0.27			97.13
ICB	ICB	05/23/22 12:09:40 pm	-0.00381	48	11.59			N/A
CCV	CCV	05/23/22 12:12:12 pm	2.37490	41655	0.55			95.00
CCB	CCB	05/23/22 12:14:44 pm	-0.00339	55	25.53			N/A
MB0523D1	UNK	05/23/22 12:17:15 pm	0.00553	211	6.45			N/A
SB0523D1	UNK	05/23/22 12:19:47 pm	2.31800	40660	0.23			N/A
05-223-01d	UNK	05/23/22 12:22:19 pm	-0.00169	85	60.58			N/A
05-223-01d D	UNK	05/23/22 12:24:51 pm	-0.00225	75	58.60			N/A
05-223-01d L	UNK	05/23/22 12:27:23 pm	-0.00380	48	13.99			N/A
05-223-01d MS	UNK	05/23/22 12:29:56 pm	2.31870	40671	0.18			N/A
05-223-01d MSD	UNK	05/23/22 12:32:28 pm	2.35430	41295	0.37			N/A
05-223-02d	UNK	05/23/22 12:35:01 pm	-0.00037	108	107.62			N/A
05-223-03c	UNK	05/23/22 12:37:33 pm	-0.00022	111	298.82			N/A
05-223-04d	UNK	05/23/22 12:40:05 pm	-0.00905	-44	11.63			N/A
CCV	CCV	05/23/22 12:42:37 pm	2.35780	41356	0.23			94.31
CCB	CCB	05/23/22 12:45:08 pm	0.00251	158	52.23			N/A
05-223-05d	UNK	05/23/22 12:47:40 pm	-0.00167	85	37.26			N/A
05-223-06c	UNK	05/23/22 12:50:13 pm	-0.00002	114	184.02			N/A
05-223-07d	UNK	05/23/22 12:52:45 pm	0.00161	143	33.92			N/A
05-223-08d	UNK	05/23/22 12:55:18 pm	0.00054	124	104.92			N/A
05-223-09d	UNK	05/23/22 12:57:51 pm	-0.00424	40	20.56			N/A
05-227-01d	UNK	05/23/22 01:00:23 pm	-0.00389	47	20.44			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
05-228-01d	UNK	05/23/22 01:02:55 pm	0.00438	191	8.28			N/A
05-229-01d	UNK	05/23/22 01:05:27 pm	0.00141	139	40.01			N/A
CCV	CCV	05/23/22 01:07:59 pm	2.34370	41108	0.33			93.75
CCB	CCB	05/23/22 01:10:31 pm	-0.00707	-9	9.99			N/A
MB0523W1	UNK	05/23/22 01:32:06 pm	-0.00853	-35	11.75			N/A
SB0523W1	UNK	05/23/22 01:34:38 pm	2.32570	40794	0.17			N/A
05-223-01c	UNK	05/23/22 01:37:10 pm	0.00075	128	81.43			N/A
05-223-01cD	UNK	05/23/22 01:39:42 pm	-0.00053	105	142.78			N/A
05-223-01cL	UNK	05/23/22 01:42:14 pm	-0.00589	11	22.96			N/A
05-223-01cMS	UNK	05/23/22 01:44:47 pm	2.26040	39652	0.23			N/A
05-223-01cMSD	UNK	05/23/22 01:47:19 pm	2.24880	39450	0.36			N/A
05-223-02c	UNK	05/23/22 01:49:52 pm	-0.00555	17	4.44			N/A
05-223-03d	UNK	05/23/22 01:52:24 pm	0.00083	129	49.92			N/A
05-223-04c	UNK	05/23/22 01:54:56 pm	0.00126	137	79.71			N/A
CCV	CCV	05/23/22 01:57:28 pm	2.40790	42233	0.32			96.32
CCB	CCB	05/23/22 01:59:59 pm	0.00289	165	23.59			N/A
05-223-05c	UNK	05/23/22 02:02:32 pm	-0.00086	99	120.17			N/A
05-223-06d ^b	UNK	05/23/22 02:05:04 pm	-0.00671	-3	25.76			N/A
05-223-07c	UNK	05/23/22 02:07:36 pm	0.00006	116	561.07			N/A
05-223-08c	UNK	05/23/22 02:10:09 pm	-0.00107	96	72.18			N/A
05-223-09c	UNK	05/23/22 02:12:42 pm	-0.00113	95	70.45			N/A
05-227-01c	UNK	05/23/22 02:15:14 pm	0.00874	267	12.38			N/A
05-228-01c	UNK	05/23/22 02:17:46 pm	-0.00029	109	254.37			N/A
05-229-01c	UNK	05/23/22 02:20:18 pm	-0.00293	63	7.61			N/A
CCV	CCV	05/23/22 02:22:50 pm	2.39820	42062	0.25			95.93
CCB	CCB	05/23/22 02:25:21 pm	-0.00025	110	70.91			N/A

Dataset Report

5-24-22
KOM

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220524B\
 Report Date/Time: Tuesday, May 24, 2022 16:06:11

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	11:41:13 Tue 24-	MBlank	C:\NexIONData_kmckinney\DataSet\X220524B\Blank.001	
	Standard 1	11:45:54 Tue 24-	MStandard #1	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 1.002	
	Standard 2	11:50:35 Tue 24-	MStandard #2	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 2.003	
	Standard 3	11:55:16 Tue 24-	MStandard #3	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 3.004	
	Standard 4	11:59:56 Tue 24-	MStandard #4	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 4.005	
	Standard 5	12:04:36 Tue 24-	MStandard #5	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 5.006	
	Standard 6	12:09:16 Tue 24-	MStandard #6	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 6.007	
	Standard 7	12:13:57 Tue 24-	MStandard #7	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 7.008	
	QC Std 1	12:19:27 Tue 24-	MQC Std #1	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 1.009	
	QC Std 2	12:24:58 Tue 24-	MQC Std #2	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 2.010	
	QC Std 6	12:29:38 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.011	
	QC Std 7	12:35:07 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.012	
	QC Std 8	12:40:38 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.013	
	MB0524WM1 2X	12:45:17 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\MB0524WM1 2X.014	
	SB0524WM1 2X	12:50:47 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\SB0524WM1 2X.015	
	05-223-01c 2X	12:56:29 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01c 2X.016	
	05-223-01cD 2X	13:01:58 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cD 2X.017	
	05-223-01cL 10X	13:07:27 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cL 10X.018	
	05-223-01cMS 2X	13:12:55 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMS 2X.019	
	05-223-01cMSD 2X	13:20:22 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMSD 2X.020	
	05-223-01cPS 2X	13:25:54 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cPS 2X.021	
	05-223-02c 2X	13:31:24 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-02c 2X.022	
	05-223-03d 2X	13:36:53 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-03d 2X.023	
	QC Std 6	13:42:24 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.024	
	QC Std 7	13:47:55 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.025	
	QC Std 8	13:53:26 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.026	
	05-223-04c 2X	13:59:03 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.027	
	05-223-05c 2X	14:04:33 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-05c 2X.028	
	05-223-06b 2X	14:10:03 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-06b 2X.029	
	05-223-07c 2X	14:15:32 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-07c 2X.030	
	05-223-08c 2X	14:21:01 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-08c 2X.031	
	05-223-09c 2X	14:26:31 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-09c 2X.032	
	05-223-04c 2X	14:34:14 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.033	
	05-223-04d 2X	14:39:43 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04d 2X.034	
	QC Std 6	14:45:12 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.035	
	QC Std 7	14:50:42 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.036	
	QC Std 8	14:56:13 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.037	
	05-227-01c 2X	15:01:57 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-227-01c 2X.038	
	05-228-01c 2X	15:07:27 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-228-01c 2X.039	
	05-229-01c 2X	15:12:58 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-229-01c 2X.040	
	05-230-01b 2X	15:18:28 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-230-01b 2X.041	
	05-230-02b 2X	15:23:57 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-230-02b 2X.042	
	05-227-01d 2X D1	15:29:27 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-227-01d 2X D1.043	
	05-228-01d 2X	15:34:56 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-228-01d 2X.044	
	05-229-01d 2X	15:40:26 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-229-01d 2X.045	
	QC Std 6	15:45:55 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.046	
	QC Std 7	15:51:25 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.047	
	QC Std 8	15:56:56 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.048	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, May 24, 2022 11:41:13

Report Date/Time: Tuesday, May 24, 2022 16:04:42

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Blank.001

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	438379.0	2.6				ug/L		Standard
	Ge	72	247731.5	3.8				ug/L		Standard
	Y	89	510500.8	3.6				ug/L		Standard
[	Rh	103	411319.5	2.2				ug/L		Standard
>	In	115	360358.5	1.9				ug/L		Standard
>	Tb	159	467949.6	0.8				ug/L		Standard
|	Ho	165	471089.4	0.3				ug/L		Standard
|	Pb	208	422.0	9.9				ug/L		Standard
|	Bi	209	266450.6	0.4				ug/L		Standard
|	Th	232	327492.4	0.8				ug/L		Standard
[	Cr-1	52	98.3	9.7				ug/L		KED
|	Cr-1	53	9.3	27.0				ug/L		KED
>	Ge-1	72	9744.3	1.3				ug/L		KED
|	As-2	75	1.0	0.0				ug/L		KED
|	Y-1	89	16475.5	1.2				ug/L		KED
|	Rh-1	103	96667.0	1.0				ug/L		KED
[	Cd-1	111	2.7	21.7				ug/L		KED
|	Cd-1	114	3.4	34.1				ug/L		KED
>	In-1	115	10677.5	1.1				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
>	Cd-1	114		
>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, May 24, 2022 11:45:54

Report Date/Time: Tuesday, May 24, 2022 16:04:44

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 1.002

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	484320.9	1.6				ug/L	438379	Standard
	Ge	72	270349.8	2.5				ug/L	247731	Standard
	Y	89	571767.0	0.8				ug/L	510501	Standard
[	Rh	103	460681.7	1.9				ug/L	411319	Standard
[>	In	115	401589.4	0.8				ug/L	360358	Standard
[>	Tb	159	520203.5	1.1				ug/L	467950	Standard
|	Ho	165	522246.6	0.7				ug/L	471089	Standard
|	Pb	208	7854.2	0.5	0.2000	0.003	1.7	ug/L	422	Standard
|	Bi	209	292048.1	0.6				ug/L	266451	Standard
|	Th	232	367392.4	0.7				ug/L	327492	Standard
[	Cr-1	52	301.0	5.2				ug/L	98	KED
|	Cr-1	53	38.0	5.3				ug/L	9	KED
[>	Ge-1	72	10593.3	0.2				ug/L	9744	KED
|	As-2	75	15.3	10.0	0.2000	0.022	10.8	ug/L	1	KED
|	Y-1	89	18377.8	1.5				ug/L	16475	KED
|	Rh-1	103	107682.3	0.6				ug/L	96667	KED
[	Cd-1	111	54.0	23.1	0.2000	0.050	25.1	ug/L	3	KED
|	Cd-1	114	117.3	4.5	0.2000	0.008	4.2	ug/L	3	KED
[>	In-1	115	11566.2	0.7				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, May 24, 2022 11:50:35

Report Date/Time: Tuesday, May 24, 2022 16:04:46

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 2.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	482395.9	2.0				ug/L	438379	Standard
	Ge	72	269188.6	2.2				ug/L	247731	Standard
	Y	89	564646.9	0.6				ug/L	510501	Standard
[	Rh	103	453435.8	0.9				ug/L	411319	Standard
[>	In	115	394561.0	0.2				ug/L	360358	Standard
[>	Tb	159	510830.1	0.2				ug/L	467950	Standard
|	Ho	165	519493.4	1.2				ug/L	471089	Standard
|	Pb	208	18755.2	0.6	0.5006	0.003	0.7	ug/L	422	Standard
|	Bi	209	288761.0	1.0				ug/L	266451	Standard
|	Th	232	361630.8	0.8				ug/L	327492	Standard
[	Cr-1	52	584.7	5.6	0.5000	0.033	6.6	ug/L	98	KED
|	Cr-1	53	73.7	12.6	0.5000	0.072	14.5	ug/L	9	KED
[>	Ge-1	72	10702.3	0.3				ug/L	9744	KED
|	As-2	75	29.7	17.3	0.4827	0.088	18.3	ug/L	1	KED
|	Y-1	89	18175.6	1.6				ug/L	16475	KED
|	Rh-1	103	106938.1	1.2				ug/L	96667	KED
[	Cd-1	111	114.0	10.3	0.4914	0.049	9.9	ug/L	3	KED
|	Cd-1	114	278.3	2.4	0.4992	0.019	3.7	ug/L	3	KED
[>	In-1	115	11323.3	1.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Sample ID: Standard 2

Report Date/Time: Tuesday, May 24, 2022 16:04:46

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, May 24, 2022 11:55:16

Report Date/Time: Tuesday, May 24, 2022 16:04:48

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 3.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	438823.2	1.8				ug/L	438379	Standard
	Ge	72	244727.9	1.9				ug/L	247731	Standard
	Y	89	514469.5	1.0				ug/L	510501	Standard
[	Rh	103	412501.1	1.9				ug/L	411319	Standard
[>	In	115	360156.1	1.2				ug/L	360358	Standard
[>	Tb	159	462538.8	0.5				ug/L	467950	Standard
|	Ho	165	472371.1	0.3				ug/L	471089	Standard
|	Pb	208	73504.8	0.9	2.0129	0.009	0.5	ug/L	422	Standard
|	Bi	209	264286.6	0.5				ug/L	266451	Standard
[	Th	232	329774.0	0.8				ug/L	327492	Standard
[	Cr-1	52	2067.1	0.3	2.0122	0.038	1.9	ug/L	98	KED
|	Cr-1	53	248.0	5.6	2.0018	0.106	5.3	ug/L	9	KED
[>	Ge-1	72	9911.1	2.0				ug/L	9744	KED
[	As-2	75	108.7	7.7	1.9974	0.129	6.4	ug/L	1	KED
|	Y-1	89	16939.4	1.8				ug/L	16475	KED
|	Rh-1	103	97671.8	0.9				ug/L	96667	KED
[	Cd-1	111	482.0	1.6	2.0160	0.047	2.3	ug/L	3	KED
|	Cd-1	114	1133.6	2.2	2.0121	0.052	2.6	ug/L	3	KED
[>	In-1	115	10589.1	1.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, May 24, 2022 11:59:56

Report Date/Time: Tuesday, May 24, 2022 16:04:50

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 4.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	389871.0	0.9				ug/L	438379	Standard
	Ge	72	220119.6	3.1				ug/L	247731	Standard
	Y	89	458033.8	1.1				ug/L	510501	Standard
[	Rh	103	369817.1	1.6				ug/L	411319	Standard
[>	In	115	326090.1	1.4				ug/L	360358	Standard
[>	Tb	159	422704.8	1.1				ug/L	467950	Standard
|	Ho	165	426094.1	0.2				ug/L	471089	Standard
|	Pb	208	157726.0	0.1	4.9605	0.050	1.0	ug/L	422	Standard
|	Bi	209	236991.0	0.5				ug/L	266451	Standard
[	Th	232	294919.5	0.6				ug/L	327492	Standard
[	Cr-1	52	4407.0	1.1	4.9931	0.048	1.0	ug/L	98	KED
|	Cr-1	53	524.0	3.7	4.9782	0.186	3.7	ug/L	9	KED
[>	Ge-1	72	8836.1	0.1				ug/L	9744	KED
[	As-2	75	253.3	7.0	5.0360	0.359	7.1	ug/L	1	KED
|	Y-1	89	14887.8	2.9				ug/L	16475	KED
|	Rh-1	103	87965.0	0.4				ug/L	96667	KED
[	Cd-1	111	957.4	2.9	4.9110	0.087	1.8	ug/L	3	KED
|	Cd-1	114	2370.3	2.2	4.9486	0.039	0.8	ug/L	3	KED
[>	In-1	115	9556.4	1.5				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Tuesday, May 24, 2022 12:04:36

Report Date/Time: Tuesday, May 24, 2022 16:04:52

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 5.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	399474.3	2.2				ug/L	438379	Standard
	Ge	72	226137.3	2.1				ug/L	247731	Standard
	Y	89	475958.2	1.2				ug/L	510501	Standard
[	Rh	103	381490.2	0.9				ug/L	411319	Standard
>	In	115	331282.7	1.2				ug/L	360358	Standard
>	Tb	159	426884.2	0.4				ug/L	467950	Standard
|	Ho	165	432513.5	0.4				ug/L	471089	Standard
|	Pb	208	592504.8	0.2	19.8887	0.111	0.6	ug/L	422	Standard
|	Bi	209	241406.3	0.4				ug/L	266451	Standard
|	Th	232	299283.5	0.5				ug/L	327492	Standard
[	Cr-1	52	16204.9	0.6	19.8583	0.324	1.6	ug/L	98	KED
|	Cr-1	53	2035.8	3.1	19.9296	0.503	2.5	ug/L	9	KED
>	Ge-1	72	9096.2	1.9				ug/L	9744	KED
|	As-2	75	1030.4	1.7	19.9966	0.120	0.6	ug/L	1	KED
|	Y-1	89	15542.1	0.7				ug/L	16475	KED
|	Rh-1	103	89647.1	0.6				ug/L	96667	KED
[	Cd-1	111	3713.5	1.2	19.9256	0.289	1.5	ug/L	3	KED
|	Cd-1	114	9066.9	1.1	19.9153	0.264	1.3	ug/L	3	KED
>	In-1	115	9618.9	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Tuesday, May 24, 2022 12:09:16

Report Date/Time: Tuesday, May 24, 2022 16:04:54

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 6.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	434290.3	2.1				ug/L	438379	Standard
	Ge	72	247412.2	2.9				ug/L	247731	Standard
	Y	89	522572.6	1.3				ug/L	510501	Standard
[	Rh	103	417357.8	1.9				ug/L	411319	Standard
>	In	115	364102.6	0.7				ug/L	360358	Standard
>	Tb	159	465173.9	1.5				ug/L	467950	Standard
|	Ho	165	473488.7	0.6				ug/L	471089	Standard
|	Pb	208	1341764.8	0.6	40.2780	0.394	1.0	ug/L	422	Standard
|	Bi	209	265178.7	1.0				ug/L	266451	Standard
|	Th	232	327685.4	0.6				ug/L	327492	Standard
[	Cr-1	52	36573.1	0.3	39.9847	0.220	0.5	ug/L	98	KED
|	Cr-1	53	4648.4	1.1	40.1087	0.308	0.8	ug/L	9	KED
>	Ge-1	72	10237.7	0.4				ug/L	9744	KED
[	As-2	75	2357.5	1.3	40.1398	0.593	1.5	ug/L	1	KED
	Y-1	89	17020.1	1.5				ug/L	16475	KED
	Rh-1	103	99301.6	0.7				ug/L	96667	KED
[	Cd-1	111	8496.5	0.7	40.3351	0.421	1.0	ug/L	3	KED
|	Cd-1	114	20964.3	0.3	40.4159	0.072	0.2	ug/L	3	KED
>	In-1	115	10536.0	0.5				ug/L	10878	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Tuesday, May 24, 2022 12:13:57

Report Date/Time: Tuesday, May 24, 2022 16:04:56

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 7.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	485629.5	2.2				ug/L	438379	Standard
	Ge	72	274924.3	2.9				ug/L	247731	Standard
	Y	89	577965.6	1.4				ug/L	510501	Standard
[	Rh	103	462174.5	2.7				ug/L	411319	Standard
>	In	115	399306.9	0.3				ug/L	360358	Standard
>	Tb	159	519573.3	0.7				ug/L	467950	Standard
|	Ho	165	526444.6	0.2				ug/L	471089	Standard
|	Pb	208	3476283.3	0.8	98.8286	0.298	0.3	ug/L	422	Standard
|	Bi	209	289794.3	1.6				ug/L	266451	Standard
|	Th	232	364112.9	1.9				ug/L	327492	Standard
[	Cr-1	52	96097.1	0.1	99.5607	1.229	1.2	ug/L	98	KED
|	Cr-1	53	11955.3	0.3	99.2378	1.418	1.4	ug/L	9	KED
>	Ge-1	72	11056.6	1.3				ug/L	9744	KED
|	As-2	75	5925.9	1.4	98.8303	0.462	0.5	ug/L	1	KED
|	Y-1	89	19061.7	0.2				ug/L	16475	KED
|	Rh-1	103	109141.1	2.0				ug/L	96667	KED
[	Cd-1	111	21642.4	1.0	98.5302	0.593	0.6	ug/L	3	KED
|	Cd-1	114	53623.3	0.7	98.6390	0.277	0.3	ug/L	3	KED
>	In-1	115	11783.7	0.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		

Sample ID: Standard 7

Report Date/Time: Tuesday, May 24, 2022 16:04:56

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Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, May 24, 2022 12:19:27

Report Date/Time: Tuesday, May 24, 2022 16:04:59

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 1.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	455210.2	0.3				ug/L	438379	Standard
	Ge	72	257647.2	2.0				ug/L	247731	Standard
	Y	89	537042.2	1.6				ug/L	510501	Standard
[	Rh	103	427652.3	1.3				ug/L	411319	Standard
[>	In	115	373117.3	0.7				ug/L	360358	Standard
[>	Tb	159	482068.8	0.5				ug/L	467950	Standard
|	Ho	165	488721.5	0.3				ug/L	471089	Standard
|	Pb	208	1702461.9	0.3	52.1597	0.185	0.4	ug/L	422	Standard
|	Bi	209	271726.2	0.4				ug/L	266451	Standard
[	Th	232	340035.4	0.7				ug/L	327492	Standard
[	Cr-1	52	46978.8	0.3	52.2668	1.048	2.0	ug/L	98	KED
|	Cr-1	53	5835.5	1.4	52.0322	1.470	2.8	ug/L	9	KED
[>	Ge-1	72	10286.7	1.8				ug/L	9744	KED
[	As-2	75	3019.0	1.1	54.1279	1.537	2.8	ug/L	1	KED
|	Y-1	89	17755.0	0.6				ug/L	16475	KED
|	Rh-1	103	102799.5	0.2				ug/L	96667	KED
[	Cd-1	111	10864.8	0.8	52.6142	0.492	0.9	ug/L	3	KED
|	Cd-1	114	26617.9	1.5	52.0901	1.257	2.4	ug/L	3	KED
[>	In-1	115	11077.3	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		103.541
[>	Tb	159		103.017
|	Ho	165		
|	Pb	208	104.319	
|	Bi	209		
|	Th	232		
|	Cr-1	52	104.534	
|	Cr-1	53	104.064	
[>	Ge-1	72		105.566
[>	As-2	75	108.256	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	105.228	
|	Cd-1	114	104.180	
[>	In-1	115		103.744

Sample ID: QC Std 1

Report Date/Time: Tuesday, May 24, 2022 16:04:59

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, May 24, 2022 12:24:58

Report Date/Time: Tuesday, May 24, 2022 16:05:01

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 2.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	424107.8	3.2				ug/L	438379	Standard
	Ge	72	241942.7	3.3				ug/L	247731	Standard
	Y	89	502198.4	0.4				ug/L	510501	Standard
[	Rh	103	402819.9	1.3				ug/L	411319	Standard
|>	In	115	355580.5	0.7				ug/L	360358	Standard
|>	Tb	159	456829.3	0.8				ug/L	467950	Standard
|	Ho	165	462286.2	0.5				ug/L	471089	Standard
|	Pb	208	891.3	10.6	0.0155	0.003	18.5	ug/L	422	Standard
|	Bi	209	260844.7	1.0				ug/L	266451	Standard
|	Th	232	317715.2	0.5				ug/L	327492	Standard
[	Cr-1	52	86.7	9.8	-0.0144	0.012	84.0	ug/L	98	KED
|	Cr-1	53	14.3	56.0	0.0464	0.077	166.1	ug/L	9	KED
|>	Ge-1	72	9828.7	2.6				ug/L	9744	KED
|	As-2	75	2.3	65.5	0.0251	0.029	115.5	ug/L	1	KED
	Y-1	89	16887.0	1.4				ug/L	16475	KED
	Rh-1	103	97406.0	0.6				ug/L	96667	KED
[	Cd-1	111	3.7	56.8	0.0053	0.011	205.9	ug/L	3	KED
|	Cd-1	114	10.3	21.0	0.0143	0.005	33.1	ug/L	3	KED
|>	In-1	115	10578.7	1.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
|>	In	115		98.674
|>	Tb	159		97.624
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
|>	Ge-1	72		100.866
|	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		99.074

Sample ID: QC Std 2

Report Date/Time: Tuesday, May 24, 2022 16:05:01

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Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 12:29:38

Report Date/Time: Tuesday, May 24, 2022 16:05:03

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	439637.6	2.3				ug/L	438379	Standard
	Ge	72	247588.6	3.3				ug/L	247731	Standard
	Y	89	510856.4	1.1				ug/L	510501	Standard
[	Rh	103	410267.7	0.8				ug/L	411319	Standard
>	In	115	359505.0	0.7				ug/L	360358	Standard
>	Tb	159	464069.9	0.4				ug/L	467950	Standard
|	Ho	165	472902.1	0.7				ug/L	471089	Standard
|	Pb	208	1336800.6	0.2	42.5426	0.105	0.2	ug/L	422	Standard
|	Bi	209	262953.1	0.7				ug/L	266451	Standard
[	Th	232	329870.0	0.1				ug/L	327492	Standard
[	Cr-1	52	37085.7	0.4	42.2926	0.297	0.7	ug/L	98	KED
|	Cr-1	53	4628.7	0.9	42.3074	0.432	1.0	ug/L	9	KED
>	Ge-1	72	10028.5	1.1				ug/L	9744	KED
[	As-2	75	2369.5	1.7	43.5611	0.738	1.7	ug/L	1	KED
	Y-1	89	17263.4	0.6				ug/L	16475	KED
	Rh-1	103	99258.6	0.5				ug/L	96667	KED
[	Cd-1	111	8552.9	1.1	42.4143	0.330	0.8	ug/L	3	KED
|	Cd-1	114	21135.9	1.2	42.3554	0.681	1.6	ug/L	3	KED
>	In-1	115	10816.1	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		99.763
>	Tb	159		99.171
	Ho	165		
	Pb	208	106.356	
	Bi	209		
	Th	232		
[	Cr-1	52	105.732	
|	Cr-1	53	105.768	
>	Ge-1	72		102.917
	As-2	75	108.903	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	106.036	
|	Cd-1	114	105.889	
>	In-1	115		101.298

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:05:03

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Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 12:35:07

Report Date/Time: Tuesday, May 24, 2022 16:05:06

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	399919.0	1.6				ug/L	438379	Standard
	Ge	72	225063.6	2.3				ug/L	247731	Standard
	Y	89	459677.2	0.2				ug/L	510501	Standard
[	Rh	103	371902.8	0.6				ug/L	411319	Standard
>	In	115	326829.0	1.1				ug/L	360358	Standard
>	Tb	159	425376.7	0.6				ug/L	467950	Standard
|	Ho	165	430925.1	0.8				ug/L	471089	Standard
|	Pb	208	600674.3	0.1	20.8484	0.119	0.6	ug/L	422	Standard
|	Bi	209	241221.5	0.3				ug/L	266451	Standard
|	Th	232	299249.9	0.7				ug/L	327492	Standard
[	Cr-1	52	16733.1	1.7	20.2985	0.363	1.8	ug/L	98	KED
|	Cr-1	53	2110.5	0.7	20.5351	0.182	0.9	ug/L	9	KED
>	Ge-1	72	9399.8	0.9				ug/L	9744	KED
|	As-2	75	1081.7	1.5	21.2068	0.378	1.8	ug/L	1	KED
|	Y-1	89	15748.0	2.1				ug/L	16475	KED
|	Rh-1	103	89254.0	0.4				ug/L	96667	KED
[	Cd-1	111	3927.9	2.8	21.2229	0.975	4.6	ug/L	3	KED
|	Cd-1	114	9498.0	1.2	20.7329	0.442	2.1	ug/L	3	KED
>	In-1	115	9929.6	1.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		90.696
>	Tb	159		90.902
|	Ho	165		
|	Pb	208	104.242	
|	Bi	209		
|	Th	232		
[	Cr-1	52	101.493	
|	Cr-1	53	102.675	
>	Ge-1	72		96.464
|	As-2	75	106.034	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	106.114	
|	Cd-1	114	103.664	
>	In-1	115		92.995

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:05:06

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 12:40:38

Report Date/Time: Tuesday, May 24, 2022 16:05:08

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	425361.0	2.4				ug/L	438379	Standard
	Ge	72	241974.7	2.2				ug/L	247731	Standard
	Y	89	501278.0	1.7				ug/L	510501	Standard
[	Rh	103	405298.6	1.3				ug/L	411319	Standard
>	In	115	353768.5	0.9				ug/L	360358	Standard
>	Tb	159	456146.1	0.5				ug/L	467950	Standard
|	Ho	165	461610.4	0.4				ug/L	471089	Standard
|	Pb	208	678.7	3.5	0.0087	0.001	8.8	ug/L	422	Standard
|	Bi	209	258389.2	0.7				ug/L	266451	Standard
|	Th	232	315201.1	0.4				ug/L	327492	Standard
[	Cr-1	52	87.0	8.0	-0.0180	0.008	43.4	ug/L	98	KED
|	Cr-1	53	11.0	24.1	0.0110	0.024	216.5	ug/L	9	KED
>	Ge-1	72	10208.0	0.1				ug/L	9744	KED
[	As-2	75	2.3	65.5	0.0232	0.028	118.8	ug/L	1	KED
|	Y-1	89	17243.4	1.2				ug/L	16475	KED
|	Rh-1	103	99028.4	0.1				ug/L	96667	KED
[	Cd-1	111	3.3	75.5	0.0029	0.012	419.5	ug/L	3	KED
|	Cd-1	114	8.5	23.3	0.0099	0.004	38.9	ug/L	3	KED
>	In-1	115	10935.0	0.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		98.171
>	Tb	159		97.478
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		104.758
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		102.411

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:05:08

Quantitative Analysis - Summary Report

Sample ID: MB0524WM1 2X

Sample Date/Time: Tuesday, May 24, 2022 12:45:17

Report Date/Time: Tuesday, May 24, 2022 16:05:11

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\MB0524WM1 2X.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	436261.3	1.7				ug/L	438379	Standard
	Ge	72	244222.5	1.5				ug/L	247731	Standard
	Y	89	509413.8	1.9				ug/L	510501	Standard
[	Rh	103	410407.7	3.4				ug/L	411319	Standard
[>	In	115	358465.5	0.9				ug/L	360358	Standard
[>	Tb	159	459978.3	0.3				ug/L	467950	Standard
|	Ho	165	465372.1	0.8				ug/L	471089	Standard
|	Pb	208	385.7	9.1	-0.0009	0.001	123.7	ug/L	422	Standard
|	Bi	209	264064.0	1.0				ug/L	266451	Standard
[	Th	232	323444.4	0.8				ug/L	327492	Standard
[	Cr-1	52	133.0	13.7	0.0333	0.021	63.0	ug/L	98	KED
|	Cr-1	53	15.3	41.9	0.0496	0.058	116.1	ug/L	9	KED
[>	Ge-1	72	10239.0	1.4				ug/L	9744	KED
[	As-2	75	4.0	25.0	0.0532	0.019	35.4	ug/L	1	KED
	Y-1	89	17292.8	1.1				ug/L	16475	KED
	Rh-1	103	100179.4	0.8				ug/L	96667	KED
[	Cd-1	111	2.3	24.7	-0.0021	0.003	141.5	ug/L	3	KED
|	Cd-1	114	3.4	107.0	-0.0002	0.007	3271.8	ug/L	3	KED
[>	In-1	115	11048.9	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		99.475
[>	Tb	159		98.297
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		105.077
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		103.478

Sample ID: MB0524WM1 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:11

Quantitative Analysis - Summary Report

Sample ID: SB0524WM1 2X

Sample Date/Time: Tuesday, May 24, 2022 12:50:47

Report Date/Time: Tuesday, May 24, 2022 16:05:13

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\SB0524WM1 2X.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	438313.4	2.1				ug/L	438379	Standard
	Ge	72	246056.6	2.2				ug/L	247731	Standard
	Y	89	507700.5	0.5				ug/L	510501	Standard
[	Rh	103	405113.3	0.6				ug/L	411319	Standard
>	In	115	357945.0	0.6				ug/L	360358	Standard
>	Tb	159	462448.5	0.3				ug/L	467950	Standard
|	Ho	165	466081.5	0.3				ug/L	471089	Standard
|	Pb	208	1473022.1	0.5	47.0439	0.356	0.8	ug/L	422	Standard
|	Bi	209	262691.3	0.6				ug/L	266451	Standard
[	Th	232	325965.3	0.5				ug/L	327492	Standard
[	Cr-1	52	41360.8	0.8	46.4334	0.485	1.0	ug/L	98	KED
|	Cr-1	53	5143.6	2.5	46.2753	1.000	2.2	ug/L	9	KED
>	Ge-1	72	10189.3	0.3				ug/L	9744	KED
[	As-2	75	2709.6	3.5	49.0247	1.634	3.3	ug/L	1	KED
	Y-1	89	17504.1	2.0				ug/L	16475	KED
	Rh-1	103	100459.3	1.0				ug/L	96667	KED
[	Cd-1	111	9819.0	0.9	48.0177	0.588	1.2	ug/L	3	KED
|	Cd-1	114	24006.5	0.2	47.4414	0.892	1.9	ug/L	3	KED
>	In-1	115	10970.6	2.1				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		99.330
>	Tb	159		98.824
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		104.567
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		102.745

Sample ID: SB0524WM1 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:13

Quantitative Analysis - Summary Report

Sample ID: 05-223-01c 2X

Sample Date/Time: Tuesday, May 24, 2022 12:56:29

Report Date/Time: Tuesday, May 24, 2022 16:05:15

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01c 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	450093.8	1.5				ug/L	438379	Standard
	Ge	72	224409.2	2.4				ug/L	247731	Standard
	Y	89	474693.8	1.8				ug/L	510501	Standard
[	Rh	103	359427.9	1.3				ug/L	411319	Standard
[>	In	115	316208.3	0.7				ug/L	360358	Standard
[>	Tb	159	425257.1	0.4				ug/L	467950	Standard
|	Ho	165	429723.9	0.6				ug/L	471089	Standard
|	Pb	208	2256.1	5.8	0.0650	0.004	6.5	ug/L	422	Standard
|	Bi	209	221997.0	0.6				ug/L	266451	Standard
[	Th	232	295837.8	0.1				ug/L	327492	Standard
[	Cr-1	52	825.0	0.9	0.9208	0.005	0.6	ug/L	98	KED
|	Cr-1	53	105.3	7.1	0.9719	0.073	7.5	ug/L	9	KED
[>	Ge-1	72	9127.6	0.9				ug/L	9744	KED
[	As-2	75	118.7	0.5	2.3790	0.011	0.5	ug/L	1	KED
	Y-1	89	15851.5	0.7				ug/L	16475	KED
	Rh-1	103	86205.0	1.2				ug/L	96667	KED
[	Cd-1	111	7.0	37.8	0.0249	0.015	59.1	ug/L	3	KED
|	Cd-1	114	22.0	41.6	0.0417	0.020	48.7	ug/L	3	KED
[>	In-1	115	9830.4	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.748
[>	Tb	159		90.877
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		93.671
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		92.066

Sample ID: 05-223-01c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:15

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cD 2X

Sample Date/Time: Tuesday, May 24, 2022 13:01:58

Report Date/Time: Tuesday, May 24, 2022 16:05:18

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cD 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	487166.5	0.9				ug/L	438379	Standard
	Ge	72	242718.2	3.1				ug/L	247731	Standard
	Y	89	511219.5	0.9				ug/L	510501	Standard
[	Rh	103	382616.0	1.6				ug/L	411319	Standard
[>	In	115	343613.6	0.9				ug/L	360358	Standard
[>	Tb	159	457950.7	0.2				ug/L	467950	Standard
|	Ho	165	464437.3	0.6				ug/L	471089	Standard
|	Pb	208	1629.4	2.4	0.0392	0.001	3.4	ug/L	422	Standard
|	Bi	209	241451.7	0.4				ug/L	266451	Standard
|	Th	232	321593.2	0.1				ug/L	327492	Standard
[	Cr-1	52	860.4	4.5	0.8664	0.033	3.8	ug/L	98	KED
|	Cr-1	53	117.7	7.1	0.9887	0.085	8.6	ug/L	9	KED
[>	Ge-1	72	10043.2	1.8				ug/L	9744	KED
[	As-2	75	125.0	9.4	2.2782	0.236	10.4	ug/L	1	KED
|	Y-1	89	17481.0	1.2				ug/L	16475	KED
|	Rh-1	103	93977.4	0.3				ug/L	96667	KED
[	Cd-1	111	3.0	33.3	0.0016	0.005	304.7	ug/L	3	KED
|	Cd-1	114	4.5	42.0	0.0023	0.004	167.4	ug/L	3	KED
[>	In-1	115	10701.0	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		95.353
[>	Tb	159		97.863
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		103.067
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		100.220

Sample ID: 05-223-01cD 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:18

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cL 10X

Sample Date/Time: Tuesday, May 24, 2022 13:07:27

Report Date/Time: Tuesday, May 24, 2022 16:05:20

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cL 10X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	456657.4	2.6				ug/L	438379	Standard
	Ge	72	254574.4	1.8				ug/L	247731	Standard
	Y	89	518438.1	1.9				ug/L	510501	Standard
[	Rh	103	405794.2	2.4				ug/L	411319	Standard
[>	In	115	360335.7	1.2				ug/L	360358	Standard
[>	Tb	159	470064.2	0.5				ug/L	467950	Standard
|	Ho	165	476472.7	0.5				ug/L	471089	Standard
|	Pb	208	570.0	3.0	0.0046	0.001	12.0	ug/L	422	Standard
|	Bi	209	259912.8	0.5				ug/L	266451	Standard
[	Th	232	327864.3	0.3				ug/L	327492	Standard
[	Cr-1	52	254.7	2.8	0.1652	0.010	6.2	ug/L	98	KED
|	Cr-1	53	24.7	39.0	0.1294	0.083	63.9	ug/L	9	KED
[>	Ge-1	72	10396.8	0.9				ug/L	9744	KED
[	As-2	75	26.7	15.6	0.4546	0.077	17.0	ug/L	1	KED
	Y-1	89	17868.2	2.7				ug/L	16475	KED
	Rh-1	103	100149.5	0.7				ug/L	96667	KED
[	Cd-1	111	4.0	43.3	0.0055	0.008	148.7	ug/L	3	KED
|	Cd-1	114	5.1	32.3	0.0029	0.003	104.3	ug/L	3	KED
[>	In-1	115	11367.5	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		99.994
[>	Tb	159		100.452
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		106.696
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		106.461

Sample ID: 05-223-01cL 10X

Report Date/Time: Tuesday, May 24, 2022 16:05:20

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cMS 2X

Sample Date/Time: Tuesday, May 24, 2022 13:12:55

Report Date/Time: Tuesday, May 24, 2022 16:05:22

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMS 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	482568.4	1.5				ug/L	438379	Standard
	Ge	72	244101.7	1.9				ug/L	247731	Standard
	Y	89	509803.0	1.7				ug/L	510501	Standard
[	Rh	103	383967.6	1.3				ug/L	411319	Standard
[>	In	115	345697.9	1.0				ug/L	360358	Standard
[>	Tb	159	459075.9	0.8				ug/L	467950	Standard
|	Ho	165	462730.8	0.1				ug/L	471089	Standard
|	Pb	208	1415315.4	0.5	45.5351	0.605	1.3	ug/L	422	Standard
|	Bi	209	240287.3	0.5				ug/L	266451	Standard
[	Th	232	320517.8	0.6				ug/L	327492	Standard
[	Cr-1	52	42308.6	1.7	48.0590	0.222	0.5	ug/L	98	KED
|	Cr-1	53	5260.3	0.7	47.8980	1.063	2.2	ug/L	9	KED
[>	Ge-1	72	10071.2	1.9				ug/L	9744	KED
[	As-2	75	2870.0	1.7	52.5576	1.667	3.2	ug/L	1	KED
	Y-1	89	17501.4	1.5				ug/L	16475	KED
	Rh-1	103	94543.8	0.4				ug/L	96667	KED
[	Cd-1	111	9731.3	0.8	48.4759	0.079	0.2	ug/L	3	KED
|	Cd-1	114	24082.2	0.4	48.4759	0.432	0.9	ug/L	3	KED
[>	In-1	115	10768.1	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		95.932
[>	Tb	159		98.104
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
[	Cr-1	53		
[>	Ge-1	72		103.355
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		100.848

Sample ID: 05-223-01cMS 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:22

Page 1

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cMSD 2X

Sample Date/Time: Tuesday, May 24, 2022 13:20:22

Report Date/Time: Tuesday, May 24, 2022 16:05:25

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMSD 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	493210.7	1.7				ug/L	438379	Standard
	Ge	72	249889.6	4.0				ug/L	247731	Standard
	Y	89	521155.1	1.9				ug/L	510501	Standard
[	Rh	103	391238.0	1.4				ug/L	411319	Standard
[>	In	115	346576.3	1.5				ug/L	360358	Standard
[>	Tb	159	462973.5	0.2				ug/L	467950	Standard
|	Ho	165	468043.7	0.3				ug/L	471089	Standard
|	Pb	208	1405500.5	0.2	44.8353	0.055	0.1	ug/L	422	Standard
|	Bi	209	240958.3	1.0				ug/L	266451	Standard
[	Th	232	318895.6	1.0				ug/L	327492	Standard
[	Cr-1	52	42119.0	0.9	47.6553	0.376	0.8	ug/L	98	KED
|	Cr-1	53	5260.6	1.9	47.7057	1.170	2.5	ug/L	9	KED
[>	Ge-1	72	10110.6	0.6				ug/L	9744	KED
[	As-2	75	2940.3	2.2	53.6231	1.488	2.8	ug/L	1	KED
	Y-1	89	17843.5	0.8				ug/L	16475	KED
	Rh-1	103	95087.4	1.2				ug/L	96667	KED
[	Cd-1	111	9902.8	1.2	48.1018	0.403	0.8	ug/L	3	KED
|	Cd-1	114	24284.8	0.9	47.6646	0.145	0.3	ug/L	3	KED
[>	In-1	115	11042.9	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		96.175
[>	Tb	159		98.937
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		103.759
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		103.422

Sample ID: 05-223-01cMSD 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:25

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cPS 2X

Sample Date/Time: Tuesday, May 24, 2022 13:25:54

Report Date/Time: Tuesday, May 24, 2022 16:05:27

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cPS 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	494673.9	2.3				ug/L	438379	Standard
	Ge	72	246069.3	1.9				ug/L	247731	Standard
	Y	89	515395.1	1.1				ug/L	510501	Standard
[	Rh	103	387281.2	0.7				ug/L	411319	Standard
[>	In	115	344014.2	0.9				ug/L	360358	Standard
[>	Tb	159	458771.2	0.6				ug/L	467950	Standard
|	Ho	165	463005.8	0.4				ug/L	471089	Standard
|	Pb	208	1155551.5	0.1	37.1980	0.179	0.5	ug/L	422	Standard
|	Bi	209	238812.9	0.2				ug/L	266451	Standard
|	Th	232	317707.1	0.8				ug/L	327492	Standard
[	Cr-1	52	34624.2	1.2	39.3211	0.611	1.6	ug/L	98	KED
|	Cr-1	53	4283.3	0.6	38.9877	0.370	0.9	ug/L	9	KED
[>	Ge-1	72	10068.2	0.4				ug/L	9744	KED
[	As-2	75	2451.5	0.8	44.8910	0.509	1.1	ug/L	1	KED
|	Y-1	89	17408.9	1.4				ug/L	16475	KED
|	Rh-1	103	94755.9	0.4				ug/L	96667	KED
[	Cd-1	111	8064.3	2.1	39.5579	1.612	4.1	ug/L	3	KED
|	Cd-1	114	19819.3	0.5	39.2746	0.848	2.2	ug/L	3	KED
[>	In-1	115	10940.4	2.0				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		95.464
[>	Tb	159		98.039
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		103.324
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		102.461

Sample ID: 05-223-01cPS 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:27

Quantitative Analysis - Summary Report

Sample ID: 05-223-02c 2X

Sample Date/Time: Tuesday, May 24, 2022 13:31:24

Report Date/Time: Tuesday, May 24, 2022 16:05:29

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-02c 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	477679.6	2.2				ug/L	438379	Standard
	Ge	72	245220.7	2.1				ug/L	247731	Standard
	Y	89	510677.2	2.3				ug/L	510501	Standard
[	Rh	103	383990.8	1.7				ug/L	411319	Standard
[>	In	115	339281.7	0.7				ug/L	360358	Standard
[>	Tb	159	451626.7	1.1				ug/L	467950	Standard
|	Ho	165	459133.6	0.7				ug/L	471089	Standard
|	Pb	208	4879.0	3.2	0.1463	0.003	2.3	ug/L	422	Standard
|	Bi	209	237909.0	0.5				ug/L	266451	Standard
|	Th	232	312691.8	0.5				ug/L	327492	Standard
[	Cr-1	52	1524.1	2.2	1.6147	0.032	2.0	ug/L	98	KED
|	Cr-1	53	182.3	14.7	1.5702	0.243	15.5	ug/L	9	KED
>	Ge-1	72	10099.6	0.4				ug/L	9744	KED
|	As-2	75	46.7	6.5	0.8332	0.053	6.3	ug/L	1	KED
|	Y-1	89	17657.6	0.3				ug/L	16475	KED
|	Rh-1	103	94577.4	1.7				ug/L	96667	KED
[	Cd-1	111	11.3	22.2	0.0421	0.012	27.5	ug/L	3	KED
|	Cd-1	114	28.2	31.4	0.0490	0.017	34.3	ug/L	3	KED
[>	In-1	115	10937.9	1.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		94.151
[>	Tb	159		96.512
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		103.646
[	As-2	75		
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		102.438

Sample ID: 05-223-02c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:29

Quantitative Analysis - Summary Report

Sample ID: 05-223-03d 2X

Sample Date/Time: Tuesday, May 24, 2022 13:36:53

Report Date/Time: Tuesday, May 24, 2022 16:05:31

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-03d 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	475135.4	2.0				ug/L	438379	Standard
	Ge	72	237566.4	2.3				ug/L	247731	Standard
	Y	89	493537.5	1.5				ug/L	510501	Standard
[	Rh	103	369860.9	1.7				ug/L	411319	Standard
>	In	115	330352.3	1.5				ug/L	360358	Standard
>	Tb	159	442898.7	0.7				ug/L	467950	Standard
|	Ho	165	450141.9	1.4				ug/L	471089	Standard
|	Pb	208	2720.4	0.9	0.0774	0.001	1.9	ug/L	422	Standard
|	Bi	209	229960.4	0.2				ug/L	266451	Standard
|	Th	232	311533.9	0.1				ug/L	327492	Standard
[	Cr-1	52	692.4	2.2	0.6988	0.005	0.7	ug/L	98	KED
|	Cr-1	53	95.7	2.6	0.8135	0.013	1.5	ug/L	9	KED
>	Ge-1	72	9746.7	1.7				ug/L	9744	KED
|	As-2	75	45.0	2.2	0.8326	0.012	1.4	ug/L	1	KED
|	Y-1	89	17085.9	1.4				ug/L	16475	KED
|	Rh-1	103	92296.9	0.7				ug/L	96667	KED
[	Cd-1	111	4.3	13.3	0.0085	0.003	36.7	ug/L	3	KED
|	Cd-1	114	7.1	52.3	0.0076	0.008	101.2	ug/L	3	KED
>	In-1	115	10647.0	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		91.673
>	Tb	159		94.647
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		100.024
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
>	In-1	115		99.714

Sample ID: 05-223-03d 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:31

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 13:42:24

Report Date/Time: Tuesday, May 24, 2022 16:05:33

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	444244.8	1.0				ug/L	438379	Standard
	Ge	72	255575.8	1.9				ug/L	247731	Standard
	Y	89	519008.5	1.7				ug/L	510501	Standard
[	Rh	103	412436.6	2.3				ug/L	411319	Standard
>	In	115	359168.1	0.3				ug/L	360358	Standard
>	Tb	159	466141.4	0.3				ug/L	467950	Standard
|	Ho	165	474120.4	0.5				ug/L	471089	Standard
|	Pb	208	1291926.8	0.4	40.9316	0.274	0.7	ug/L	422	Standard
|	Bi	209	262791.2	1.0				ug/L	266451	Standard
|	Th	232	325445.5	1.0				ug/L	327492	Standard
[	Cr-1	52	36698.1	0.3	39.4864	0.402	1.0	ug/L	98	KED
|	Cr-1	53	4568.4	2.0	39.4006	0.991	2.5	ug/L	9	KED
>	Ge-1	72	10627.3	1.3				ug/L	9744	KED
|	As-2	75	2391.2	0.7	41.4826	0.330	0.8	ug/L	1	KED
|	Y-1	89	18096.5	1.4				ug/L	16475	KED
|	Rh-1	103	103100.7	0.5				ug/L	96667	KED
[	Cd-1	111	8703.7	0.3	40.7090	0.446	1.1	ug/L	3	KED
|	Cd-1	114	21621.7	1.4	40.8632	0.598	1.5	ug/L	3	KED
>	In-1	115	11468.9	1.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		99.670
>	Tb	159		99.614
|	Ho	165		
|	Pb	208	102.329	
|	Bi	209		
|	Th	232		
[	Cr-1	52	98.716	
|	Cr-1	53	98.502	
>	Ge-1	72		109.061
|	As-2	75	103.706	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	101.772	
|	Cd-1	114	102.158	
>	In-1	115		107.411

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:05:33

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 13:47:55

Report Date/Time: Tuesday, May 24, 2022 16:05:36

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	413399.9	0.3				ug/L	438379	Standard
	Ge	72	233689.6	2.4				ug/L	247731	Standard
	Y	89	476843.2	1.5				ug/L	510501	Standard
[	Rh	103	378754.5	1.4				ug/L	411319	Standard
>	In	115	331765.6	0.8				ug/L	360358	Standard
>	Tb	159	428005.1	0.5				ug/L	467950	Standard
|	Ho	165	437028.1	0.1				ug/L	471089	Standard
|	Pb	208	603836.0	0.5	20.8291	0.119	0.6	ug/L	422	Standard
|	Bi	209	240334.8	0.2				ug/L	266451	Standard
|	Th	232	295855.3	0.8				ug/L	327492	Standard
[	Cr-1	52	17135.6	1.1	20.1352	0.417	2.1	ug/L	98	KED
|	Cr-1	53	2180.5	1.6	20.5495	0.249	1.2	ug/L	9	KED
>	Ge-1	72	9704.6	1.3				ug/L	9744	KED
|	As-2	75	1131.4	8.0	21.4993	1.998	9.3	ug/L	1	KED
	Y-1	89	16607.6	1.5				ug/L	16475	KED
	Rh-1	103	95737.1	0.6				ug/L	96667	KED
[	Cd-1	111	4130.3	3.0	20.8086	0.453	2.2	ug/L	3	KED
|	Cd-1	114	9996.4	1.5	20.3575	0.412	2.0	ug/L	3	KED
>	In-1	115	10641.9	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		92.065
>	Tb	159		91.464
	Ho	165		
	Pb	208	104.146	
	Bi	209		
	Th	232		
[	Cr-1	52	100.676	
|	Cr-1	53	102.747	
>	Ge-1	72		99.593
[	As-2	75	107.496	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	104.043	
|	Cd-1	114	101.787	
>	In-1	115		99.666

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:05:36

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 13:53:26

Report Date/Time: Tuesday, May 24, 2022 16:05:38

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	443454.0	1.5				ug/L	438379	Standard
	Ge	72	250138.0	2.4				ug/L	247731	Standard
	Y	89	505993.5	0.9				ug/L	510501	Standard
[	Rh	103	402542.0	1.0				ug/L	411319	Standard
|>	In	115	352251.5	0.9				ug/L	360358	Standard
|>	Tb	159	456312.9	0.4				ug/L	467950	Standard
|	Ho	165	461224.5	0.8				ug/L	471089	Standard
|	Pb	208	513.0	15.6	0.0033	0.003	80.8	ug/L	422	Standard
|	Bi	209	256701.2	0.4				ug/L	266451	Standard
[	Th	232	314588.8	0.5				ug/L	327492	Standard
[	Cr-1	52	105.3	12.9	-0.0005	0.016	3071.5	ug/L	98	KED
|	Cr-1	53	10.7	27.1	0.0056	0.027	473.6	ug/L	9	KED
|>	Ge-1	72	10493.5	2.0				ug/L	9744	KED
[	As-2	75	1.3	114.6	0.0045	0.027	598.7	ug/L	1	KED
|	Y-1	89	17955.6	0.8				ug/L	16475	KED
|	Rh-1	103	101925.7	0.9				ug/L	96667	KED
[	Cd-1	111	4.7	61.9	0.0085	0.014	161.4	ug/L	3	KED
|	Cd-1	114	4.0	42.0	0.0008	0.003	415.1	ug/L	3	KED
|>	In-1	115	11461.5	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
|>	In	115		97.750
|>	Tb	159		97.513
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
|>	Ge-1	72		107.689
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
|>	In-1	115		107.342

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:05:38

Page 1

Quantitative Analysis - Summary Report

Sample ID: 05-223-04c 2X

Sample Date/Time: Tuesday, May 24, 2022 13:59:03

Report Date/Time: Tuesday, May 24, 2022 16:05:40

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	485869.3	2.1				ug/L	438379	Standard
	Ge	72	234320.0	2.2				ug/L	247731	Standard
	Y	89	478910.4	1.4				ug/L	510501	Standard
[	Rh	103	351153.6	1.4				ug/L	411319	Standard
>	In	115	313449.0	1.0				ug/L	360358	Standard
>	Tb	159	429530.5	0.5				ug/L	467950	Standard
|	Ho	165	431762.2	0.3				ug/L	471089	Standard
|	Pb	208	10740.6	0.9	0.3561	0.002	0.7	ug/L	422	Standard
|	Bi	209	215731.7	0.3				ug/L	266451	Standard
[	Th	232	299731.8	0.5				ug/L	327492	Standard
[	Cr-1	52	784.7	6.7	0.8671	0.085	9.9	ug/L	98	KED
|	Cr-1	53	108.3	5.4	0.9980	0.063	6.3	ug/L	9	KED
>	Ge-1	72	9165.9	2.2				ug/L	9744	KED
[	As-2	75	99.3	10.1	1.9835	0.246	12.4	ug/L	1	KED
	Y-1	89	16580.6	1.4				ug/L	16475	KED
	Rh-1	103	85799.9	1.2				ug/L	96667	KED
[	Cd-1	111	2.7	21.7	0.0009	0.003	320.5	ug/L	3	KED
|	Cd-1	114	2.7	10.2	-0.0010	0.001	63.8	ug/L	3	KED
>	In-1	115	9970.3	1.0				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		86.983
>	Tb	159		91.790
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		94.064
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		93.376

Sample ID: 05-223-04c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:40

Quantitative Analysis - Summary Report

Sample ID: 05-223-05c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:04:33

Report Date/Time: Tuesday, May 24, 2022 16:05:42

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-05c 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	423619.6	3.1				ug/L	438379	Standard
	Ge	72	209426.8	3.0				ug/L	247731	Standard
	Y	89	443687.0	0.9				ug/L	510501	Standard
[	Rh	103	324854.1	1.8				ug/L	411319	Standard
|>	In	115	284694.9	1.1				ug/L	360358	Standard
|>	Tb	159	383100.2	0.5				ug/L	467950	Standard
|	Ho	165	386921.2	1.1				ug/L	471089	Standard
|	Pb	208	1757.0	0.8	0.0544	0.001	1.6	ug/L	422	Standard
|	Bi	209	201847.3	0.3				ug/L	266451	Standard
|	Th	232	265634.7	1.0				ug/L	327492	Standard
[	Cr-1	52	1233.7	0.2	1.5775	0.032	2.0	ug/L	98	KED
|	Cr-1	53	156.7	7.8	1.6351	0.152	9.3	ug/L	9	KED
|>	Ge-1	72	8357.1	1.8				ug/L	9744	KED
|	As-2	75	140.3	15.2	3.0833	0.513	16.6	ug/L	1	KED
|	Y-1	89	15567.5	0.5				ug/L	16475	KED
|	Rh-1	103	80150.2	0.1				ug/L	96667	KED
[	Cd-1	111	1.3	43.3	-0.0055	0.003	60.3	ug/L	3	KED
|	Cd-1	114	4.1	136.7	0.0030	0.013	451.2	ug/L	3	KED
|>	In-1	115	9079.8	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
|>	In	115		79.003
|>	Tb	159		81.868
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
|>	Ge-1	72		85.764
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
|>	In-1	115		85.037

Sample ID: 05-223-05c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:42

Quantitative Analysis - Summary Report

Sample ID: 05-223-06b 2X

Sample Date/Time: Tuesday, May 24, 2022 14:10:03

Report Date/Time: Tuesday, May 24, 2022 16:05:45

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-06b 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	448112.5	0.6				ug/L	438379	Standard
	Ge	72	226930.4	2.2				ug/L	247731	Standard
	Y	89	464461.6	1.7				ug/L	510501	Standard
[	Rh	103	352735.8	0.8				ug/L	411319	Standard
[>	In	115	311868.2	1.2				ug/L	360358	Standard
[>	Tb	159	415256.6	0.2				ug/L	467950	Standard
|	Ho	165	420770.5	1.0				ug/L	471089	Standard
|	Pb	208	1108.0	3.7	0.0261	0.001	5.6	ug/L	422	Standard
|	Bi	209	219182.7	0.4				ug/L	266451	Standard
|	Th	232	287874.3	0.4				ug/L	327492	Standard
[	Cr-1	52	1068.7	3.7	1.1962	0.059	4.9	ug/L	98	KED
|	Cr-1	53	125.0	4.5	1.1403	0.037	3.2	ug/L	9	KED
[>	Ge-1	72	9344.4	1.6				ug/L	9744	KED
|	As-2	75	51.0	10.4	0.9881	0.109	11.0	ug/L	1	KED
|	Y-1	89	16213.2	1.4				ug/L	16475	KED
|	Rh-1	103	87905.3	0.2				ug/L	96667	KED
[	Cd-1	111	1.7	34.6	-0.0045	0.003	68.9	ug/L	3	KED
|	Cd-1	114	3.1	53.6	-0.0002	0.003	1667.4	ug/L	3	KED
[>	In-1	115	10055.0	1.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		86.544
[>	Tb	159		88.740
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		95.896
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		94.169

Sample ID: 05-223-06b 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:45

Quantitative Analysis - Summary Report

Sample ID: 05-223-07c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:15:32

Report Date/Time: Tuesday, May 24, 2022 16:05:48

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-07c 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	395476.2	1.6				ug/L	438379	Standard
	Ge	72	203737.4	2.3				ug/L	247731	Standard
	Y	89	426274.5	1.1				ug/L	510501	Standard
[	Rh	103	324035.1	2.7				ug/L	411319	Standard
[>	In	115	286455.0	0.3				ug/L	360358	Standard
[>	Tb	159	381031.6	0.1				ug/L	467950	Standard
|	Ho	165	384347.8	0.6				ug/L	471089	Standard
|	Pb	208	3681.2	3.3	0.1294	0.005	3.7	ug/L	422	Standard
|	Bi	209	203214.5	0.3				ug/L	266451	Standard
|	Th	232	263030.4	0.2				ug/L	327492	Standard
[	Cr-1	52	1840.1	0.5	2.3317	0.029	1.2	ug/L	98	KED
|	Cr-1	53	253.0	9.3	2.6091	0.280	10.7	ug/L	9	KED
[>	Ge-1	72	8622.3	1.1				ug/L	9744	KED
|	As-2	75	106.0	3.4	2.2481	0.053	2.4	ug/L	1	KED
|	Y-1	89	14946.1	0.2				ug/L	16475	KED
|	Rh-1	103	81641.0	0.2				ug/L	96667	KED
[	Cd-1	111	3.0	33.3	0.0039	0.006	154.9	ug/L	3	KED
|	Cd-1	114	5.3	17.8	0.0054	0.002	36.5	ug/L	3	KED
[>	In-1	115	9334.9	1.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		79.492
[>	Tb	159		81.426
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		88.485
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		87.426

Sample ID: 05-223-07c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:48

Quantitative Analysis - Summary Report

Sample ID: 05-223-08c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:21:01

Report Date/Time: Tuesday, May 24, 2022 16:05:50

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-08c 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	477472.2	2.7				ug/L	438379	Standard
	Ge	72	236509.3	2.7				ug/L	247731	Standard
	Y	89	498044.1	0.5				ug/L	510501	Standard
[	Rh	103	369636.5	2.7				ug/L	411319	Standard
[>	In	115	325984.2	0.2				ug/L	360358	Standard
[>	Tb	159	439302.4	0.5				ug/L	467950	Standard
|	Ho	165	441319.4	0.4				ug/L	471089	Standard
|	Pb	208	1378.0	2.9	0.0330	0.001	3.6	ug/L	422	Standard
|	Bi	209	229204.8	0.7				ug/L	266451	Standard
|	Th	232	301456.3	0.9				ug/L	327492	Standard
[	Cr-1	52	1474.4	1.5	1.6081	0.071	4.4	ug/L	98	KED
|	Cr-1	53	179.0	3.4	1.5874	0.052	3.3	ug/L	9	KED
[>	Ge-1	72	9816.0	3.0				ug/L	9744	KED
[	As-2	75	59.3	19.5	1.1004	0.249	22.6	ug/L	1	KED
	Y-1	89	17374.2	0.3				ug/L	16475	KED
	Rh-1	103	92650.2	0.8				ug/L	96667	KED
[	Cd-1	111	2.3	107.9	-0.0018	0.013	719.7	ug/L	3	KED
|	Cd-1	114	1.8	118.7	-0.0031	0.004	138.8	ug/L	3	KED
[>	In-1	115	10801.7	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		90.461
[>	Tb	159		93.878
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		100.736
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		101.163

Sample ID: 05-223-08c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:50

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Quantitative Analysis - Summary Report

Sample ID: 05-223-09c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:26:31

Report Date/Time: Tuesday, May 24, 2022 16:05:51

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-09c 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	483669.8	1.6				ug/L	438379	Standard
	Ge	72	237103.7	2.2				ug/L	247731	Standard
	Y	89	492233.5	1.2				ug/L	510501	Standard
[	Rh	103	368724.5	2.0				ug/L	411319	Standard
>	In	115	324543.6	1.2				ug/L	360358	Standard
>	Tb	159	433826.4	0.2				ug/L	467950	Standard
|	Ho	165	440517.5	0.4				ug/L	471089	Standard
|	Pb	208	1815.4	0.6	0.0485	0.000	0.6	ug/L	422	Standard
|	Bi	209	227041.0	0.7				ug/L	266451	Standard
[	Th	232	300197.4	0.6				ug/L	327492	Standard
[	Cr-1	52	1538.4	2.8	1.6618	0.053	3.2	ug/L	98	KED
|	Cr-1	53	194.7	3.9	1.7136	0.072	4.2	ug/L	9	KED
>	Ge-1	72	9924.8	0.2				ug/L	9744	KED
[	As-2	75	62.3	15.4	1.1393	0.177	15.6	ug/L	1	KED
	Y-1	89	17398.3	1.2				ug/L	16475	KED
	Rh-1	103	92254.3	0.7				ug/L	96667	KED
[	Cd-1	111	3.3	69.3	0.0033	0.011	348.0	ug/L	3	KED
|	Cd-1	114	1.3	279.1	-0.0041	0.008	181.8	ug/L	3	KED
>	In-1	115	10681.9	1.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		90.061
>	Tb	159		92.708
	Ho	165		
	Pb	208		
	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		101.852
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		100.041

Sample ID: 05-223-09c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:51

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Quantitative Analysis - Summary Report

Sample ID: 05-223-04c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:34:14

Report Date/Time: Tuesday, May 24, 2022 16:05:53

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	486854.5	2.7				ug/L	438379	Standard
	Ge	72	235766.1	2.1				ug/L	247731	Standard
	Y	89	482927.3	1.8				ug/L	510501	Standard
[	Rh	103	355595.7	0.5				ug/L	411319	Standard
>	In	115	315618.4	0.2				ug/L	360358	Standard
>	Tb	159	432853.0	0.7				ug/L	467950	Standard
	Ho	165	432881.0	0.3				ug/L	471089	Standard
	Pb	208	11212.7	1.4	0.3694	0.003	0.7	ug/L	422	Standard
	Bi	209	216764.8	0.4				ug/L	266451	Standard
	Th	232	298492.5	0.4				ug/L	327492	Standard
[	Cr-1	52	832.4	0.9	0.9043	0.008	0.9	ug/L	98	KED
	Cr-1	53	115.7	1.8	1.0476	0.032	3.0	ug/L	9	KED
>	Ge-1	72	9357.4	1.0				ug/L	9744	KED
[	As-2	75	101.7	2.5	1.9849	0.041	2.1	ug/L	1	KED
	Y-1	89	17332.2	1.6				ug/L	16475	KED
	Rh-1	103	87942.5	0.4				ug/L	96667	KED
[	Cd-1	111	5.7	44.4	0.0160	0.013	80.8	ug/L	3	KED
	Cd-1	114	16.6	57.1	0.0283	0.021	72.5	ug/L	3	KED
>	In-1	115	10327.5	1.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		87.585
>	Tb	159		92.500
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		96.029
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		96.722

Sample ID: 05-223-04c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:53

Quantitative Analysis - Summary Report

Sample ID: 05-223-04d 2X

Sample Date/Time: Tuesday, May 24, 2022 14:39:43

Report Date/Time: Tuesday, May 24, 2022 16:05:55

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04d 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	505091.0	1.4				ug/L	438379	Standard
	Ge	72	246341.2	3.2				ug/L	247731	Standard
	Y	89	497523.7	2.6				ug/L	510501	Standard
[	Rh	103	368364.1	3.1				ug/L	411319	Standard
>	In	115	323962.5	1.4				ug/L	360358	Standard
>	Tb	159	444050.6	0.7				ug/L	467950	Standard
|	Ho	165	447157.5	1.0				ug/L	471089	Standard
|	Pb	208	833.0	2.7	0.0144	0.001	6.5	ug/L	422	Standard
|	Bi	209	222337.9	0.9				ug/L	266451	Standard
|	Th	232	307197.2	0.3				ug/L	327492	Standard
[	Cr-1	52	745.4	1.3	0.7741	0.011	1.4	ug/L	98	KED
|	Cr-1	53	109.7	8.5	0.9606	0.086	9.0	ug/L	9	KED
>	Ge-1	72	9604.9	0.3				ug/L	9744	KED
[	As-2	75	114.0	8.8	2.1704	0.194	8.9	ug/L	1	KED
	Y-1	89	17355.2	0.7				ug/L	16475	KED
	Rh-1	103	90157.9	0.7				ug/L	96667	KED
[	Cd-1	111	1.0	100.0	-0.0083	0.005	60.7	ug/L	3	KED
|	Cd-1	114	2.2	69.7	-0.0024	0.003	128.9	ug/L	3	KED
>	In-1	115	10607.9	1.5				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		89.900
>	Tb	159		94.893
	Ho	165		
	Pb	208		
	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		98.569
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		99.348

Sample ID: 05-223-04d 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:55

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 14:45:12

Report Date/Time: Tuesday, May 24, 2022 16:05:57

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	439344.1	0.8				ug/L	438379	Standard
	Ge	72	249157.2	2.9				ug/L	247731	Standard
	Y	89	512450.2	2.0				ug/L	510501	Standard
[	Rh	103	409960.4	2.5				ug/L	411319	Standard
>	In	115	354630.4	0.9				ug/L	360358	Standard
>	Tb	159	457017.4	0.6				ug/L	467950	Standard
|	Ho	165	460439.5	0.2				ug/L	471089	Standard
|	Pb	208	1271121.2	0.7	41.0768	0.333	0.8	ug/L	422	Standard
|	Bi	209	257095.2	0.7				ug/L	266451	Standard
|	Th	232	318275.1	0.6				ug/L	327492	Standard
[	Cr-1	52	36913.3	0.2	39.2595	0.458	1.2	ug/L	98	KED
|	Cr-1	53	4540.4	1.3	38.7095	1.047	2.7	ug/L	9	KED
>	Ge-1	72	10751.4	1.3				ug/L	9744	KED
|	As-2	75	2456.9	2.5	42.1236	0.543	1.3	ug/L	1	KED
|	Y-1	89	18424.9	1.0				ug/L	16475	KED
|	Rh-1	103	103714.5	1.0				ug/L	96667	KED
[	Cd-1	111	8798.4	1.0	39.5277	0.815	2.1	ug/L	3	KED
|	Cd-1	114	21555.8	0.3	39.1302	0.545	1.4	ug/L	3	KED
>	In-1	115	11940.7	1.1				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		98.410
>	Tb	159		97.664
|	Ho	165		
|	Pb	208	102.692	
|	Bi	209		
|	Th	232		
[	Cr-1	52	98.149	
|	Cr-1	53	96.774	
>	Ge-1	72		110.335
|	As-2	75	105.309	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	98.819	
|	Cd-1	114	97.825	
>	In-1	115		111.830

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:05:57

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 14:50:42

Report Date/Time: Tuesday, May 24, 2022 16:06:00

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	412722.7	2.1				ug/L	438379	Standard
	Ge	72	235074.1	3.0				ug/L	247731	Standard
	Y	89	477735.3	1.6				ug/L	510501	Standard
[	Rh	103	379251.8	1.4				ug/L	411319	Standard
[>	In	115	326817.7	0.9				ug/L	360358	Standard
[>	Tb	159	424881.5	0.2				ug/L	467950	Standard
[	Ho	165	427533.7	0.6				ug/L	471089	Standard
[	Pb	208	595930.0	0.8	20.7072	0.143	0.7	ug/L	422	Standard
[	Bi	209	238002.6	0.7				ug/L	266451	Standard
[	Th	232	295568.3	0.3				ug/L	327492	Standard
[	Cr-1	52	17575.5	0.5	19.9105	0.173	0.9	ug/L	98	KED
[	Cr-1	53	2220.5	4.6	20.1779	0.946	4.7	ug/L	9	KED
[>	Ge-1	72	10064.2	0.6				ug/L	9744	KED
[	As-2	75	1170.4	7.0	21.4252	1.394	6.5	ug/L	1	KED
[	Y-1	89	17084.9	1.6				ug/L	16475	KED
[	Rh-1	103	96238.4	0.9				ug/L	96667	KED
[	Cd-1	111	4079.9	2.2	20.3278	0.311	1.5	ug/L	3	KED
[	Cd-1	114	10174.8	2.0	20.4910	0.491	2.4	ug/L	3	KED
[>	In-1	115	10761.2	0.7				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
	Rh	103		
[>	In	115		90.692
[>	Tb	159		90.796
	Ho	165		
	Pb	208	103.536	
	Bi	209		
	Th	232		
	Cr-1	52	99.552	
	Cr-1	53	100.889	
[>	Ge-1	72		103.283
[	As-2	75	107.126	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.639	
[	Cd-1	114	102.455	
[>	In-1	115		100.783

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:06:00

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 14:56:13

Report Date/Time: Tuesday, May 24, 2022 16:06:01

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	435581.5	1.2				ug/L	438379	Standard
	Ge	72	249468.9	2.0				ug/L	247731	Standard
	Y	89	505801.9	2.8				ug/L	510501	Standard
[	Rh	103	404186.3	2.1				ug/L	411319	Standard
>	In	115	345418.7	0.5				ug/L	360358	Standard
>	Tb	159	448649.2	0.6				ug/L	467950	Standard
|	Ho	165	454249.1	0.5				ug/L	471089	Standard
|	Pb	208	594.7	6.1	0.0063	0.001	17.5	ug/L	422	Standard
|	Bi	209	253039.0	0.1				ug/L	266451	Standard
|	Th	232	308337.0	0.4				ug/L	327492	Standard
[	Cr-1	52	92.7	15.3	-0.0165	0.015	93.0	ug/L	98	KED
|	Cr-1	53	11.7	24.7	0.0121	0.025	206.7	ug/L	9	KED
>	Ge-1	72	10714.7	1.8				ug/L	9744	KED
[	As-2	75	1.7	69.3	0.0098	0.020	203.8	ug/L	1	KED
|	Y-1	89	18352.4	1.4				ug/L	16475	KED
|	Rh-1	103	102726.0	0.6				ug/L	96667	KED
[	Cd-1	111	4.7	53.9	0.0081	0.011	142.5	ug/L	3	KED
|	Cd-1	114	9.6	52.6	0.0110	0.010	86.3	ug/L	3	KED
>	In-1	115	11637.4	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		95.854
>	Tb	159		95.876
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		109.958
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		108.990

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:06:01

Dissolved Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\05 May 2022\I220523W1.wszf

Creation Date: 5/23/2022 11:19:24 AM

Comment:

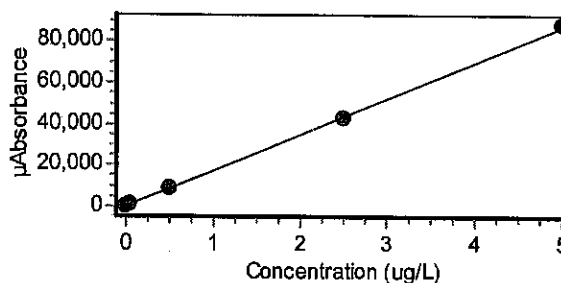
KOM
5-23-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	05/23/22 11:49:51 am	0.00000	115	8.26			N/A
Standard #1	STD	05/23/22 11:52:23 am	0.01000	228	5.44	-34.91%		N/A
Standard #2	STD	05/23/22 11:54:54 am	0.05000	909	1.47	-9.20%		N/A
Standard #3	STD	05/23/22 11:57:27 am	0.50000	8725	0.41	-1.54%		N/A
Standard #4	STD	05/23/22 11:59:59 am	2.50000	42664	0.34	-2.70%		N/A
Standard #5	STD	05/23/22 12:02:31 pm	5.00000	88176	0.24	0.69%		N/A

Calibration

Equation: Abs = 17491.449x + 114.514
 R2: 0.99969 RSE: 20.92%
 SEE: 771.3353
 Flags:



ICV	ICV	05/23/22 12:07:08 pm	2.42820	42587	0.27			97.13
ICB	ICB	05/23/22 12:09:40 pm	-0.00381	48	11.59			N/A
CCV	CCV	05/23/22 12:12:12 pm	2.37490	41655	0.55			95.00
CCB	CCB	05/23/22 12:14:44 pm	-0.00339	55	25.53			N/A
MB0523D1	UNK	05/23/22 12:17:15 pm	0.00553	211	6.45			N/A
SB0523D1	UNK	05/23/22 12:19:47 pm	2.31800	40660	0.23			N/A
05-223-01d	UNK	05/23/22 12:22:19 pm	-0.00169	85	60.58			N/A
05-223-01d D	UNK	05/23/22 12:24:51 pm	-0.00225	75	58.60			N/A
05-223-01d L	UNK	05/23/22 12:27:23 pm	-0.00380	48	13.99			N/A
05-223-01d MS	UNK	05/23/22 12:29:56 pm	2.31870	40671	0.18			N/A
05-223-01d MSD	UNK	05/23/22 12:32:28 pm	2.35430	41295	0.37			N/A
05-223-02d	UNK	05/23/22 12:35:01 pm	-0.00037	108	107.62			N/A
05-223-03c	UNK	05/23/22 12:37:33 pm	-0.00022	111	298.82			N/A
05-223-04d	UNK	05/23/22 12:40:05 pm	-0.00905	-44	11.63			N/A
CCV	CCV	05/23/22 12:42:37 pm	2.35780	41356	0.23			94.31
CCB	CCB	05/23/22 12:45:08 pm	0.00251	158	52.23			N/A
05-223-05d	UNK	05/23/22 12:47:40 pm	-0.00167	85	37.26			N/A
05-223-06c	UNK	05/23/22 12:50:13 pm	-0.00002	114	184.02			N/A
05-223-07d	UNK	05/23/22 12:52:45 pm	0.00161	143	33.92			N/A
05-223-08d	UNK	05/23/22 12:55:18 pm	0.00054	124	104.92			N/A
05-223-09d	UNK	05/23/22 12:57:51 pm	-0.00424	40	20.56			N/A
05-227-01d	UNK	05/23/22 01:00:23 pm	-0.00389	47	20.44			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
05-228-01d	UNK	05/23/22 01:02:55 pm	0.00438	191	8.28			N/A
05-229-01d	UNK	05/23/22 01:05:27 pm	0.00141	139	40.01			N/A
CCV	CCV	05/23/22 01:07:59 pm	2.34370	41108	0.33			93.75
CCB	CCB	05/23/22 01:10:31 pm	-0.00707	-9	9.99			N/A
MB0523W1	UNK	05/23/22 01:32:06 pm	-0.00853	-35	11.75			N/A
SB0523W1	UNK	05/23/22 01:34:38 pm	2.32570	40794	0.17			N/A
05-223-01c	UNK	05/23/22 01:37:10 pm	0.00075	128	81.43			N/A
05-223-01cD	UNK	05/23/22 01:39:42 pm	-0.00053	105	142.78			N/A
05-223-01cL	UNK	05/23/22 01:42:14 pm	-0.00589	11	22.96			N/A
05-223-01cMS	UNK	05/23/22 01:44:47 pm	2.26040	39652	0.23			N/A
05-223-01cMSD	UNK	05/23/22 01:47:19 pm	2.24880	39450	0.36			N/A
05-223-02c	UNK	05/23/22 01:49:52 pm	-0.00555	17	4.44			N/A
05-223-03d	UNK	05/23/22 01:52:24 pm	0.00083	129	49.92			N/A
05-223-04c	UNK	05/23/22 01:54:58 pm	0.00126	137	79.71			N/A
CCV	CCV	05/23/22 01:57:28 pm	2.40790	42233	0.32			96.32
CCB	CCB	05/23/22 01:59:59 pm	0.00289	165	23.59			N/A
05-223-05c	UNK	05/23/22 02:02:32 pm	-0.00086	99	120.17			N/A
05-223-06 ab	UNK	05/23/22 02:05:04 pm	-0.00671	-3	25.76			N/A
05-223-07c	UNK	05/23/22 02:07:36 pm	0.00006	116	561.07			N/A
05-223-08c	UNK	05/23/22 02:10:09 pm	-0.00107	96	72.18			N/A
05-223-09c	UNK	05/23/22 02:12:42 pm	-0.00113	95	70.45			N/A
05-227-01c	UNK	05/23/22 02:15:14 pm	0.00874	267	12.38			N/A
05-228-01c	UNK	05/23/22 02:17:46 pm	-0.00029	109	254.37			N/A
05-229-01c	UNK	05/23/22 02:20:18 pm	-0.00293	63	7.61			N/A
CCV	CCV	05/23/22 02:22:50 pm	2.39820	42062	0.25			95.93
CCB	CCB	05/23/22 02:25:21 pm	-0.00025	110	70.91			N/A

Dataset Report

5-24-22
KPM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220524A\
Report Date/Time: Tuesday, May 24, 2022 16:14:40

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - N	Nebulizer Gas Flow	S'06:54:59 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Nebulizer Gas Flow STD-KI	
SmartTune - T	Torch Alignment	06:57:16 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Torch Alignment.002	
SmartTune - N	Nebulizer Gas Flow	S'06:58:07 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Nebulizer Gas Flow STD-KI	
SmartTune - A	AutoLens STD/DRC	07:01:43 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\AutoLens STD-DRC.004	
SmartTune - K	KED Mode AutoLens	07:06:11 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\KED Mode AutoLens.005	
SmartTune - C	Daily Performance Ch	07:10:59 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Daily Performance Check.01	
SmartTune - M	Mass Calibration and	07:13:27 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Mass Calibration and Resol	
SmartTune - M	Mass Calibration and	07:15:39 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Mass Calibration and Resol	
SmartTune - M	Mass Calibration and	07:17:50 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Mass Calibration and Resol	
	Sample	07:25:20 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.010	
	Sample	07:30:50 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.011	
	Sample	07:36:20 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.012	
	Sample	07:41:52 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.013	
	Sample	07:47:23 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.014	
	Sample	07:52:53 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.015	
	Sample	07:58:23 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\Sample.016	
	Blank	08:03:53 Tue	24-MBlank	C:\NexIONData_kmckinney\DataSet\X220524A\Blank.017	
	Standard 1	08:08:33 Tue	24-MStandard #1	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 1.018	
	Standard 2	08:13:14 Tue	24-MStandard #2	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 2.019	
	Standard 3	08:17:55 Tue	24-MStandard #3	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 3.020	
	Standard 4	08:22:35 Tue	24-MStandard #4	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 4.021	
	Standard 5	08:27:16 Tue	24-MStandard #5	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 5.022	
	Standard 6	08:31:59 Tue	24-MStandard #6	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 6.023	
	Standard 7	08:36:40 Tue	24-MStandard #7	C:\NexIONData_kmckinney\DataSet\X220524A\Standard 7.024	
	QC Std 1	08:42:11 Tue	24-MQC Std #1	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 1.025	
	QC Std 2	08:47:42 Tue	24-MQC Std #2	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 2.026	
	QC Std 6	08:52:22 Tue	24-MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 6.027	
	QC Std 7	08:57:53 Tue	24-MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 7.028	
	QC Std 8	09:03:23 Tue	24-MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 8.029	
	MB0524D1 2X	09:08:03 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\MB0524D1 2X.030	
	SB0524D1 2X	09:13:34 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\SB0524D1 2X.031	
	05-223-01d 2X	09:19:12 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-01d 2X.032	
	05-223-02d 2X	09:24:42 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02d 2X.033	
	05-223-03c 2X	09:30:11 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-03c 2X.034	
	05-223-04d 2X	09:35:40 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-04d 2X.035	
	05-223-05d 2X	09:41:10 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-05d 2X.036	
	05-223-06c 2X	09:46:41 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-06c 2X.037	
	05-223-07d 2X	09:52:11 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-07d 2X.038	
	05-223-08d 2X	09:57:41 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-08d 2X.039	
	QC Std 6	10:03:12 Tue	24-MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 6.040	
	QC Std 7	10:08:43 Tue	24-MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 7.041	
	QC Std 8	10:14:13 Tue	24-MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 8.042	
	05-223-09d 2X	10:20:11 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-09d 2X.043	
	05-223-02dD 2X	10:25:42 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dD 2X.044	
	05-223-02dL 10X	10:31:11 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dL 10X.045	
	05-223-02dMS 2X	10:36:41 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dMS 2X.046	
	05-223-02dMSD 2X	10:42:10 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dMSD 2X.047	
	05-223-03c 25X	10:47:39 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-03c 25X.048	
	05-223-04d 100X	10:53:08 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-04d 100X.049	
	05-223-05d 25X	10:58:36 Tue	24-MSample	C:\NexIONData_kmckinney\DataSet\X220524A\05-223-05d 25X.050	

QC Std 6
QC Std 7
QC Std 8

11:15:55 Tue 24-MSample
11:28:50 Tue 24-MSample
11:34:19 Tue 24-MSample

C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 6.051
C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 7.052
C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 8.053

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, May 24, 2022 08:03:53

Report Date/Time: Tuesday, May 24, 2022 16:08:12

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Blank.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	472558.4	1.1				ug/L		Standard
[	Mn	55	4329.3	3.2				ug/L		Standard
	Ge	72	268190.8	1.7				ug/L		Standard
	Y	89	613650.1	2.0				ug/L		Standard
[	Rh	103	493491.7	1.8				ug/L		Standard
[>	In	115	460121.5	0.8				ug/L		Standard
[>	Tb	159	559377.4	0.4				ug/L		Standard
|	Ho	165	568462.3	1.0				ug/L		Standard
|	Pb	208	475.3	5.2				ug/L		Standard
|	Bi	209	321374.2	1.0				ug/L		Standard
[	Th	232	403166.7	1.2				ug/L		Standard
[	Cr-1	52	89.0	5.1				ug/L		KED
|	Cr-1	53	10.0	26.5				ug/L		KED
[>	Ge-1	72	8249.4	2.5				ug/L		KED
[	As-2	75	1.3	114.6				ug/L		KED
	Y-1	89	14628.2	2.2				ug/L		KED
	Rh-1	103	92584.0	0.5				ug/L		KED
[	Cd-1	111	2.0	100.0				ug/L		KED
|	Cd-1	114	1.2	155.9				ug/L		KED
[>	In-1	115	8328.7	1.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, May 24, 2022 08:08:33

Report Date/Time: Tuesday, May 24, 2022 16:08:14

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 1.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	481034.6	1.5				ug/L	472558	Standard
[	Mn	55	5666.1	2.5				ug/L	4329	Standard
	Ge	72	268825.3	1.8				ug/L	268191	Standard
	Y	89	624943.0	2.3				ug/L	613650	Standard
[	Rh	103	492315.3	2.0				ug/L	493492	Standard
[>	In	115	456786.3	1.4				ug/L	460122	Standard
[>	Tb	159	564930.2	1.2				ug/L	559377	Standard
|	Ho	165	575510.0	1.2				ug/L	568462	Standard
|	Pb	208	8760.7	1.1	0.2000	0.002	1.2	ug/L	475	Standard
|	Bi	209	321319.8	1.3				ug/L	321374	Standard
|	Th	232	407052.2	0.5				ug/L	403167	Standard
[	Cr-1	52	289.0	4.0				ug/L	89	KED
|	Cr-1	53	34.0	15.3				ug/L	10	KED
[>	Ge-1	72	8399.8	1.0				ug/L	8249	KED
[	As-2	75	11.0	15.7	0.2000	0.038	18.9	ug/L	1	KED
|	Y-1	89	14499.0	1.7				ug/L	14628	KED
|	Rh-1	103	93101.4	0.3				ug/L	92584	KED
[	Cd-1	111	40.7	22.2	0.2000	0.045	22.6	ug/L	2	KED
|	Cd-1	114	88.3	15.1	0.2000	0.029	14.6	ug/L	1	KED
[>	In-1	115	8433.3	1.1				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, May 24, 2022 08:13:14

Report Date/Time: Tuesday, May 24, 2022 16:08:16

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 2.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	477764.5	1.0				ug/L	472558	Standard
[	Mn	55	10842.4	1.8				ug/L	4329	Standard
	Ge	72	265816.1	1.8				ug/L	268191	Standard
	Y	89	618661.5	1.1				ug/L	613650	Standard
[	Rh	103	486142.4	1.2				ug/L	493492	Standard
[>	In	115	451667.4	0.7				ug/L	460122	Standard
[>	Tb	159	558395.3	0.1				ug/L	559377	Standard
|	Ho	165	568855.6	0.5				ug/L	568462	Standard
|	Pb	208	20601.1	1.2	0.4988	0.007	1.3	ug/L	475	Standard
|	Bi	209	314213.3	0.3				ug/L	321374	Standard
[	Th	232	397093.8	0.7				ug/L	403167	Standard
[	Cr-1	52	568.7	4.7	0.5000	0.024	4.8	ug/L	89	KED
|	Cr-1	53	78.3	5.9	0.5000	0.043	8.6	ug/L	10	KED
[>	Ge-1	72	8487.5	1.7				ug/L	8249	KED
[	As-2	75	23.3	8.9	0.4925	0.049	9.9	ug/L	1	KED
	Y-1	89	14672.9	0.7				ug/L	14628	KED
	Rh-1	103	92977.6	0.6				ug/L	92584	KED
[	Cd-1	111	81.0	13.6	0.4845	0.073	15.1	ug/L	2	KED
|	Cd-1	114	229.8	6.4	0.5027	0.030	6.0	ug/L	1	KED
[>	In-1	115	8512.5	1.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, May 24, 2022 08:17:55

Report Date/Time: Tuesday, May 24, 2022 16:08:18

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 3.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	437126.5	2.1				ug/L	472558	Standard
[	Mn	55	37799.3	2.3	2.0000	0.006	0.3	ug/L	4329	Standard
	Ge	72	243429.4	2.6				ug/L	268191	Standard
	Y	89	557438.6	1.5				ug/L	613650	Standard
[	Rh	103	441051.9	2.0				ug/L	493492	Standard
[>	In	115	411940.0	1.2				ug/L	460122	Standard
[>	Tb	159	506330.7	0.1				ug/L	559377	Standard
	Ho	165	514456.5	0.1				ug/L	568462	Standard
	Pb	208	80451.3	0.6	2.0116	0.012	0.6	ug/L	475	Standard
	Bi	209	287663.1	0.6				ug/L	321374	Standard
[	Th	232	360645.9	0.2				ug/L	403167	Standard
[	Cr-1	52	2048.1	1.0	2.0131	0.040	2.0	ug/L	89	KED
	Cr-1	53	242.7	2.0	1.9918	0.050	2.5	ug/L	10	KED
[>	Ge-1	72	7774.1	0.9				ug/L	8249	KED
[	As-2	75	98.0	16.2	2.0211	0.318	15.8	ug/L	1	KED
	Y-1	89	13550.4	1.1				ug/L	14628	KED
	Rh-1	103	85132.6	0.6				ug/L	92584	KED
[	Cd-1	111	352.7	2.6	2.0205	0.095	4.7	ug/L	2	KED
	Cd-1	114	902.4	6.3	2.0107	0.167	8.3	ug/L	1	KED
[>	In-1	115	7782.9	2.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, May 24, 2022 08:22:35

Report Date/Time: Tuesday, May 24, 2022 16:08:20

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 4.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	394264.4	1.6				ug/L	472558	Standard
[	Mn	55	78601.8	3.0	4.9888	0.071	1.4	ug/L	4329	Standard
	Ge	72	219657.6	1.9				ug/L	268191	Standard
	Y	89	501324.7	1.1				ug/L	613650	Standard
[	Rh	103	393026.1	1.4				ug/L	493492	Standard
[>	In	115	366758.3	0.2				ug/L	460122	Standard
[>	Tb	159	453492.0	0.6				ug/L	559377	Standard
|	Ho	165	462230.4	0.5				ug/L	568462	Standard
|	Pb	208	172646.6	0.3	4.9752	0.027	0.5	ug/L	475	Standard
|	Bi	209	257438.1	1.1				ug/L	321374	Standard
[	Th	232	324507.2	0.9				ug/L	403167	Standard
|	Cr-1	52	4065.6	0.4	4.9089	0.035	0.7	ug/L	89	KED
|	Cr-1	53	498.7	3.8	4.9273	0.193	3.9	ug/L	10	KED
[>	Ge-1	72	7166.1	0.9				ug/L	8249	KED
[	As-2	75	219.3	11.6	4.9926	0.595	11.9	ug/L	1	KED
	Y-1	89	12084.8	1.9				ug/L	14628	KED
	Rh-1	103	77595.5	1.0				ug/L	92584	KED
[	Cd-1	111	788.4	2.7	4.9850	0.181	3.6	ug/L	2	KED
|	Cd-1	114	1920.3	1.1	4.9416	0.035	0.7	ug/L	1	KED
[>	In-1	115	7194.1	1.4				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Tuesday, May 24, 2022 08:27:16

Report Date/Time: Tuesday, May 24, 2022 16:08:22

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 5.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	439099.9	1.6				ug/L	472558	Standard
[	Mn	55	316753.3	1.0	19.9053	0.171	0.9	ug/L	4329	Standard
	Ge	72	246786.3	2.1				ug/L	268191	Standard
	Y	89	558107.9	2.0				ug/L	613650	Standard
[	Rh	103	436791.2	1.7				ug/L	493492	Standard
[>	In	115	410469.5	0.6				ug/L	460122	Standard
[>	Tb	159	507791.7	0.5				ug/L	559377	Standard
|	Ho	165	515263.0	0.6				ug/L	568462	Standard
|	Pb	208	700544.1	0.2	19.8543	0.099	0.5	ug/L	475	Standard
|	Bi	209	287157.4	0.6				ug/L	321374	Standard
[	Th	232	362211.1	0.4				ug/L	403167	Standard
[	Cr-1	52	16743.5	1.6	19.8531	0.404	2.0	ug/L	89	KED
|	Cr-1	53	2058.8	1.7	19.8606	0.425	2.1	ug/L	10	KED
[>	Ge-1	72	8143.3	1.2				ug/L	8249	KED
[	As-2	75	872.0	2.0	19.8099	0.631	3.2	ug/L	1	KED
	Y-1	89	13546.4	1.7				ug/L	14628	KED
	Rh-1	103	86766.7	1.0				ug/L	92584	KED
[	Cd-1	111	3122.7	2.1	19.8341	0.454	2.3	ug/L	2	KED
|	Cd-1	114	8059.0	0.5	19.9050	0.054	0.3	ug/L	1	KED
[>	In-1	115	7984.2	0.5				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Tuesday, May 24, 2022 08:31:59

Report Date/Time: Tuesday, May 24, 2022 16:08:24

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 6.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	444862.8	2.5				ug/L	472558	Standard
[	Mn	55	652998.1	1.8	40.1605	0.365	0.9	ug/L	4329	Standard
	Ge	72	253509.0	1.7				ug/L	268191	Standard
	Y	89	567779.6	1.6				ug/L	613650	Standard
[	Rh	103	451827.3	1.9				ug/L	493492	Standard
[>	In	115	419268.6	0.8				ug/L	460122	Standard
[>	Tb	159	522951.1	0.3				ug/L	559377	Standard
|	Ho	165	529880.2	0.2				ug/L	568462	Standard
|	Pb	208	1451608.6	0.3	39.9915	0.120	0.3	ug/L	475	Standard
|	Bi	209	295181.8	0.5				ug/L	321374	Standard
[	Th	232	369586.8	0.5				ug/L	403167	Standard
|	Cr-1	52	34500.9	0.6	40.0741	0.410	1.0	ug/L	89	KED
|	Cr-1	53	4212.0	1.6	40.0148	0.813	2.0	ug/L	10	KED
[>	Ge-1	72	8277.1	0.7				ug/L	8249	KED
[	As-2	75	1908.5	3.8	40.5393	1.756	4.3	ug/L	1	KED
|	Y-1	89	14303.5	2.5				ug/L	14628	KED
|	Rh-1	103	89428.7	1.4				ug/L	92584	KED
[	Cd-1	111	6701.9	0.6	40.2172	0.535	1.3	ug/L	2	KED
|	Cd-1	114	16996.5	1.1	40.0987	0.498	1.2	ug/L	1	KED
[>	In-1	115	8283.3	1.6				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Tuesday, May 24, 2022 08:36:40

Report Date/Time: Tuesday, May 24, 2022 16:08:26

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\Standard 7.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	478215.6	2.5				ug/L	472558	Standard
[	Mn	55	1687037.6	1.2	99.4608	1.656	1.7	ug/L	4329	Standard
	Ge	72	268168.3	2.0				ug/L	268191	Standard
	Y	89	602687.0	1.8				ug/L	613650	Standard
[	Rh	103	476769.2	0.2				ug/L	493492	Standard
[>	In	115	441611.1	0.5				ug/L	460122	Standard
[>	Tb	159	550007.3	1.1				ug/L	559377	Standard
|	Ho	165	560028.0	0.7				ug/L	568462	Standard
|	Pb	208	3742613.8	0.2	99.6675	1.025	1.0	ug/L	475	Standard
|	Bi	209	313148.7	0.7				ug/L	321374	Standard
[	Th	232	395044.7	1.0				ug/L	403167	Standard
[	Cr-1	52	88453.0	0.7	99.5497	0.683	0.7	ug/L	89	KED
|	Cr-1	53	10991.9	0.7	99.8251	0.705	0.7	ug/L	10	KED
[>	Ge-1	72	8745.0	0.0				ug/L	8249	KED
[	As-2	75	4748.5	2.6	99.2100	2.600	2.6	ug/L	1	KED
	Y-1	89	14788.3	0.6				ug/L	14628	KED
	Rh-1	103	94555.2	0.6				ug/L	92584	KED
[	Cd-1	111	17218.0	1.0	99.5656	0.644	0.6	ug/L	2	KED
|	Cd-1	114	43589.9	0.9	99.4831	0.441	0.4	ug/L	1	KED
[>	In-1	115	8780.2	0.6				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
[	Ho	165		
[	Pb	208		
[	Bi	209		
[	Th	232		
[	Cr-1	52		
[	Cr-1	53		
[>	Ge-1	72		
[	As-2	75		
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, May 24, 2022 08:42:11

Report Date/Time: Tuesday, May 24, 2022 16:08:28

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 1.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	441678.9	0.9				ug/L	472558	Standard
[	Mn	55	820118.3	1.5	52.2128	0.300	0.6	ug/L	4329	Standard
	Ge	72	247929.9	0.3				ug/L	268191	Standard
	Y	89	565815.1	1.3				ug/L	613650	Standard
[	Rh	103	442181.0	1.5				ug/L	493492	Standard
[>	In	115	413177.2	1.2				ug/L	460122	Standard
[>	Tb	159	511954.7	0.9				ug/L	559377	Standard
|	Ho	165	518726.9	0.4				ug/L	568462	Standard
|	Pb	208	1819727.3	0.6	52.0531	0.170	0.3	ug/L	475	Standard
|	Bi	209	290954.4	0.6				ug/L	321374	Standard
[	Th	232	366167.1	0.4				ug/L	403167	Standard
[	Cr-1	52	43133.7	0.6	51.2071	0.860	1.7	ug/L	89	KED
|	Cr-1	53	5443.7	1.3	52.1485	0.100	0.2	ug/L	10	KED
[>	Ge-1	72	8283.1	1.1				ug/L	8249	KED
[	As-2	75	2407.9	1.1	53.1080	1.102	2.1	ug/L	1	KED
	Y-1	89	14033.6	0.4				ug/L	14628	KED
	Rh-1	103	88873.6	0.1				ug/L	92584	KED
[	Cd-1	111	8630.6	1.3	52.6394	0.521	1.0	ug/L	2	KED
|	Cd-1	114	21682.8	0.7	52.2016	0.660	1.3	ug/L	1	KED
[>	In-1	115	8323.7	0.7				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.465
[	Mn	55	104.426	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		89.797
[>	Tb	159		91.522
|	Ho	165		
|	Pb	208	104.106	
|	Bi	209		
[	Th	232		
|	Cr-1	52	102.414	
|	Cr-1	53	104.297	
[>	Ge-1	72		100.408
[	As-2	75	106.216	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	105.279	
|	Cd-1	114	104.403	
[>	In-1	115		99.939

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, May 24, 2022 08:47:42

Report Date/Time: Tuesday, May 24, 2022 16:08:30

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 2.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	466626.9	2.2				ug/L	472558	Standard
[	Mn	55	4608.4	11.2	0.0205	0.034	168.0	ug/L	4329	Standard
	Ge	72	262815.2	2.2				ug/L	268191	Standard
	Y	89	584878.7	1.3				ug/L	613650	Standard
[	Rh	103	465686.7	0.6				ug/L	493492	Standard
[>	In	115	430797.9	1.6				ug/L	460122	Standard
[>	Tb	159	531611.2	1.1				ug/L	559377	Standard
	Ho	165	540569.8	2.0				ug/L	568462	Standard
	Pb	208	871.3	27.0	0.0116	0.007	58.5	ug/L	475	Standard
	Bi	209	304644.4	1.9				ug/L	321374	Standard
[	Th	232	376023.7	1.6				ug/L	403167	Standard
[	Cr-1	52	91.7	6.3	-0.0051	0.006	111.9	ug/L	89	KED
	Cr-1	53	12.3	28.5	0.0132	0.029	223.1	ug/L	10	KED
[>	Ge-1	72	8924.8	1.7				ug/L	8249	KED
[	As-2	75	1.0	100.0	-0.0091	0.021	228.2	ug/L	1	KED
	Y-1	89	15194.4	1.8				ug/L	14628	KED
	Rh-1	103	94275.1	1.3				ug/L	92584	KED
[	Cd-1	111	3.3	45.8	0.0068	0.009	130.1	ug/L	2	KED
	Cd-1	114	5.3	16.7	0.0090	0.002	21.5	ug/L	1	KED
[>	In-1	115	8923.0	1.5				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		98.745
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		93.627
[>	Tb	159		95.036
	Ho	165		
	Pb	208		
	Bi	209		
[	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		108.187
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		107.135

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 08:52:22

Report Date/Time: Tuesday, May 24, 2022 16:08:32

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 6.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	449070.9	1.1				ug/L	472558	Standard
[	Mn	55	645511.5	2.1	40.3598	0.409	1.0	ug/L	4329	Standard
	Ge	72	251466.2	2.1				ug/L	268191	Standard
	Y	89	557284.7	2.8				ug/L	613650	Standard
[	Rh	103	443819.4	2.5				ug/L	493492	Standard
[>	In	115	407951.6	2.3				ug/L	460122	Standard
[>	Tb	159	507975.6	1.3				ug/L	559377	Standard
[	Ho	165	517684.4	0.9				ug/L	568462	Standard
|	Pb	208	1420489.6	0.2	40.9523	0.518	1.3	ug/L	475	Standard
|	Bi	209	289523.1	0.1				ug/L	321374	Standard
[	Th	232	363097.5	0.3				ug/L	403167	Standard
[	Cr-1	52	33947.0	0.6	39.5687	0.030	0.1	ug/L	89	KED
|	Cr-1	53	4224.3	1.1	39.7413	0.671	1.7	ug/L	10	KED
[>	Ge-1	72	8430.2	0.6				ug/L	8249	KED
[	As-2	75	1925.1	2.0	41.7080	0.849	2.0	ug/L	1	KED
	Y-1	89	14406.6	0.4				ug/L	14628	KED
	Rh-1	103	88601.9	0.3				ug/L	92584	KED
[	Cd-1	111	6820.3	1.5	40.7309	1.497	3.7	ug/L	2	KED
|	Cd-1	114	17153.7	0.8	40.4262	0.798	2.0	ug/L	1	KED
[>	In-1	115	8504.8	2.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.030
[	Mn	55	100.900	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		88.662
[>	Tb	159		90.811
	Ho	165		
	Pb	208	102.381	
	Bi	209		
	Th	232		
	Cr-1	52	98.922	
	Cr-1	53	99.353	
[>	Ge-1	72		102.191
[	As-2	75	104.270	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	101.827	
	Cd-1	114	101.066	
[>	In-1	115		102.114

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 08:57:53

Report Date/Time: Tuesday, May 24, 2022 16:08:34

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 7.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	437474.8	1.6				ug/L	472558	Standard
[	Mn	55	315079.4	2.4	20.0929	0.205	1.0	ug/L	4329	Standard
	Ge	72	245073.3	1.6				ug/L	268191	Standard
	Y	89	548014.7	1.6				ug/L	613650	Standard
[	Rh	103	434223.0	1.7				ug/L	493492	Standard
[>	In	115	394220.7	1.2				ug/L	460122	Standard
[>	Tb	159	496878.9	1.0				ug/L	559377	Standard
|	Ho	165	499511.4	0.6				ug/L	568462	Standard
|	Pb	208	679060.5	0.3	20.0075	0.262	1.3	ug/L	475	Standard
|	Bi	209	277798.5	1.1				ug/L	321374	Standard
[	Th	232	350997.1	0.7				ug/L	403167	Standard
|	Cr-1	52	16598.0	0.3	19.9463	0.307	1.5	ug/L	89	KED
|	Cr-1	53	2048.1	2.3	19.8695	0.592	3.0	ug/L	10	KED
[>	Ge-1	72	8156.7	1.8				ug/L	8249	KED
[	As-2	75	909.7	3.1	20.3565	0.665	3.3	ug/L	1	KED
	Y-1	89	14121.0	1.0				ug/L	14628	KED
	Rh-1	103	86712.8	2.1				ug/L	92584	KED
[	Cd-1	111	3241.0	1.0	19.6225	0.091	0.5	ug/L	2	KED
|	Cd-1	114	8216.1	1.3	19.6396	0.094	0.5	ug/L	1	KED
[>	In-1	115	8382.3	1.4				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.576
[	Mn	55	100.464	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		85.678
[>	Tb	159		88.827
	Ho	165		
	Pb	208	100.038	
	Bi	209		
	Th	232		
	Cr-1	52	99.731	
	Cr-1	53	99.348	
[>	Ge-1	72		98.876
[	As-2	75	101.782	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	98.112	
	Cd-1	114	98.198	
[>	In-1	115		100.644

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:08:34

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Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 09:03:23

Report Date/Time: Tuesday, May 24, 2022 16:08:37

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 8.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	472067.2	1.4				ug/L	472558	Standard
[	Mn	55	4392.0	2.6	0.0040	0.004	90.7	ug/L	4329	Standard
	Ge	72	265828.4	1.4				ug/L	268191	Standard
	Y	89	584597.6	1.6				ug/L	613650	Standard
[	Rh	103	462888.6	1.6				ug/L	493492	Standard
[>	In	115	429940.9	0.9				ug/L	460122	Standard
[>	Tb	159	531197.1	0.8				ug/L	559377	Standard
[	Ho	165	538297.8	0.9				ug/L	568482	Standard
|	Pb	208	754.3	1.1	0.0084	0.000	4.2	ug/L	475	Standard
|	Bi	209	303108.7	0.9				ug/L	321374	Standard
[	Th	232	375973.0	0.7				ug/L	403167	Standard
[	Cr-1	52	94.7	10.0	-0.0038	0.010	266.6	ug/L	89	KED
|	Cr-1	53	11.7	21.6	0.0056	0.022	393.3	ug/L	10	KED
[>	Ge-1	72	9094.9	0.3				ug/L	8249	KED
[	As-2	75	1.7	34.6	0.0040	0.012	293.8	ug/L	1	KED
	Y-1	89	15564.8	1.2				ug/L	14628	KED
	Rh-1	103	94959.6	0.8				ug/L	92584	KED
[	Cd-1	111	2.3	49.5	0.0007	0.006	862.8	ug/L	2	KED
|	Cd-1	114	1.5	191.8	0.0005	0.006	1238.1	ug/L	1	KED
[>	In-1	115	9105.4	3.0				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		99.896
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		93.441
[>	Tb	159		94.962
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		110.249
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		109.325

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:08:37

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Quantitative Analysis - Summary Report

Sample ID: MB0524D1 2X

Sample Date/Time: Tuesday, May 24, 2022 09:08:03

Report Date/Time: Tuesday, May 24, 2022 16:08:40

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\MB0524D1 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	489787.2	1.6				ug/L	472558	Standard
[	Mn	55	4322.0	3.7	0.0010	0.006	536.8	ug/L	4329	Standard
	Ge	72	264345.7	1.5				ug/L	268191	Standard
	Y	89	579964.1	1.0				ug/L	613650	Standard
[	Rh	103	460695.0	0.5				ug/L	493492	Standard
[>	In	115	424472.5	0.1				ug/L	460122	Standard
[>	Tb	159	533654.7	0.6				ug/L	559377	Standard
[	Ho	165	538580.0	0.4				ug/L	568462	Standard
|	Pb	208	655.7	5.7	0.0055	0.001	17.3	ug/L	475	Standard
|	Bi	209	302032.2	0.7				ug/L	321374	Standard
[	Th	232	377080.1	0.2				ug/L	403167	Standard
[	Cr-1	52	87.3	10.3	-0.0118	0.009	74.3	ug/L	89	KED
|	Cr-1	53	12.7	4.6	0.0144	0.006	41.1	ug/L	10	KED
[>	Ge-1	72	9095.2	1.2				ug/L	8249	KED
[	As-2	75	2.3	107.9	0.0177	0.051	289.4	ug/L	1	KED
	Y-1	89	15211.4	0.9				ug/L	14628	KED
	Rh-1	103	94587.4	0.5				ug/L	92584	KED
[	Cd-1	111	1.0	0.0	-0.0067	0.000	1.2	ug/L	2	KED
[	Cd-1	114	4.9	28.8	0.0078	0.003	40.2	ug/L	1	KED
[>	In-1	115	9274.0	1.5				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		99.414
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		92.252
[>	Tb	159		95.402
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		110.253
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		111.350

Sample ID: MB0524D1 2X

Report Date/Time: Tuesday, May 24, 2022 16:08:40

Quantitative Analysis - Summary Report

Sample ID: SB0524D1 2X

Sample Date/Time: Tuesday, May 24, 2022 09:13:34

Report Date/Time: Tuesday, May 24, 2022 16:08:42

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\SB0524D1 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	448824.4	1.7				ug/L	472558	Standard
[	Mn	55	651162.9	1.5	40.7418	0.071	0.2	ug/L	4329	Standard
	Ge	72	252397.3	1.9				ug/L	268191	Standard
	Y	89	554001.6	1.5				ug/L	613650	Standard
[	Rh	103	442473.0	1.6				ug/L	493492	Standard
[>	In	115	402461.3	1.1				ug/L	460122	Standard
[>	Tb	159	501827.3	0.2				ug/L	559377	Standard
	Ho	165	511953.6	0.3				ug/L	568462	Standard
	Pb	208	1407743.8	0.6	41.0782	0.335	0.8	ug/L	475	Standard
	Bi	209	285918.9	0.4				ug/L	321374	Standard
[	Th	232	356570.1	0.1				ug/L	403167	Standard
	Cr-1	52	34797.3	0.1	38.8191	0.822	2.1	ug/L	89	KED
	Cr-1	53	4339.0	3.6	39.0485	0.725	1.9	ug/L	10	KED
[>	Ge-1	72	8810.4	2.2				ug/L	8249	KED
[	As-2	75	1976.8	2.0	41.0004	1.613	3.9	ug/L	1	KED
	Y-1	89	14774.3	0.7				ug/L	14628	KED
	Rh-1	103	91185.4	0.4				ug/L	92584	KED
[	Cd-1	111	7113.8	1.8	40.2710	1.211	3.0	ug/L	2	KED
|	Cd-1	114	18043.6	1.7	40.3124	0.718	1.8	ug/L	1	KED
[>	In-1	115	8969.5	1.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.978
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.468
[>	Tb	159		89.712
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		106.801
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		107.693

Quantitative Analysis - Summary Report

Sample ID: 05-223-01d 2X

Sample Date/Time: Tuesday, May 24, 2022 09:19:12

Report Date/Time: Tuesday, May 24, 2022 16:08:45

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-01d 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	482268.5	3.3				ug/L	472558	Standard
[	Mn	55	1144267.7	3.1	66.7951	0.218	0.3	ug/L	4329	Standard
	Ge	72	244003.1	2.7				ug/L	268191	Standard
	Y	89	547680.1	1.9				ug/L	613650	Standard
[	Rh	103	412155.1	2.2				ug/L	493492	Standard
[>	In	115	384106.9	0.9				ug/L	460122	Standard
[>	Tb	159	492259.0	1.0				ug/L	559377	Standard
|	Ho	165	499602.0	0.4				ug/L	568462	Standard
|	Pb	208	870.7	3.6	0.0135	0.001	6.2	ug/L	475	Standard
|	Bi	209	259005.7	1.0				ug/L	321374	Standard
[	Th	232	346627.8	1.0				ug/L	403167	Standard
[	Cr-1	52	598.3	3.3	0.6033	0.025	4.2	ug/L	89	KED
|	Cr-1	53	89.7	9.5	0.7618	0.084	11.1	ug/L	10	KED
[>	Ge-1	72	8308.1	0.4				ug/L	8249	KED
[	As-2	75	102.7	20.6	2.2279	0.458	20.6	ug/L	1	KED
	Y-1	89	14512.0	1.2				ug/L	14628	KED
	Rh-1	103	83637.5	0.3				ug/L	92584	KED
[	Cd-1	111	3.0	66.7	0.0057	0.012	206.8	ug/L	2	KED
|	Cd-1	114	7.9	40.7	0.0159	0.008	48.5	ug/L	1	KED
[>	In-1	115	8466.1	0.8				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		102.055
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		83.479
[>	Tb	159		88.001
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		100.712
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		101.650

Sample ID: 05-223-01d 2X

Report Date/Time: Tuesday, May 24, 2022 16:08:45

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Quantitative Analysis - Summary Report

Sample ID: 05-223-02d 2X

Sample Date/Time: Tuesday, May 24, 2022 09:24:42

Report Date/Time: Tuesday, May 24, 2022 16:08:47

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02d 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	481738.7	2.7				ug/L	472558	Standard
[	Mn	55	223219.3	2.9	12.8355	0.075	0.6	ug/L	4329	Standard
	Ge	72	245515.7	3.5				ug/L	268191	Standard
	Y	89	547541.3	0.9				ug/L	613650	Standard
[	Rh	103	416450.6	1.3				ug/L	493492	Standard
[>	In	115	384281.4	0.8				ug/L	460122	Standard
[>	Tb	159	494381.0	0.3				ug/L	559377	Standard
[	Ho	165	502340.4	0.6				ug/L	568462	Standard
|	Pb	208	1308.0	0.5	0.0263	0.000	0.7	ug/L	475	Standard
|	Bi	209	263131.3	0.5				ug/L	321374	Standard
[	Th	232	351588.6	0.3				ug/L	403167	Standard
[	Cr-1	52	612.3	4.1	0.6048	0.034	5.6	ug/L	89	KED
|	Cr-1	53	85.0	9.6	0.7006	0.088	12.6	ug/L	10	KED
[>	Ge-1	72	8487.2	1.5				ug/L	8249	KED
[	As-2	75	29.3	7.1	0.6018	0.037	6.1	ug/L	1	KED
	Y-1	89	14628.2	2.5				ug/L	14628	KED
	Rh-1	103	86372.0	1.4				ug/L	92584	KED
[	Cd-1	111	3.3	17.3	0.0072	0.003	41.2	ug/L	2	KED
|	Cd-1	114	6.9	32.4	0.0130	0.005	37.2	ug/L	1	KED
[>	In-1	115	8717.3	2.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		101.943
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		83.517
[>	Tb	159		88.381
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		102.883
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		104.666

Sample ID: 05-223-02d 2X

Report Date/Time: Tuesday, May 24, 2022 16:08:47

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Quantitative Analysis - Summary Report

Sample ID: 05-223-03c 2X

Sample Date/Time: Tuesday, May 24, 2022 09:30:11

Report Date/Time: Tuesday, May 24, 2022 16:08:49

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-03c 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	488755.3	2.9				ug/L	472558	Standard
[	Mn	55	10220652.3	1.8	590.8664	10.981	1.9	ug/L	4329	Standard
	Ge	72	241117.7	2.0				ug/L	268191	Standard
	Y	89	537368.3	2.0				ug/L	613650	Standard
[	Rh	103	400389.0	1.9				ug/L	493492	Standard
[>	In	115	372750.2	1.9				ug/L	460122	Standard
[>	Tb	159	483147.7	1.2				ug/L	559377	Standard
|	Ho	165	492404.1	0.9				ug/L	568462	Standard
|	Pb	208	1967.7	2.0	0.0472	0.002	3.7	ug/L	475	Standard
|	Bi	209	253663.0	0.9				ug/L	321374	Standard
[	Th	232	344626.8	0.6				ug/L	403167	Standard
[	Cr-1	52	488.0	9.5	0.4458	0.054	12.1	ug/L	89	KED
|	Cr-1	53	56.3	8.4	0.4396	0.043	9.8	ug/L	10	KED
[>	Ge-1	72	8354.1	1.2				ug/L	8249	KED
[	As-2	75	39.3	12.0	0.8319	0.113	13.6	ug/L	1	KED
	Y-1	89	14527.1	1.4				ug/L	14628	KED
	Rh-1	103	83995.6	1.6				ug/L	92584	KED
[	Cd-1	111	4.3	35.3	0.0135	0.009	68.5	ug/L	2	KED
|	Cd-1	114	7.4	55.5	0.0145	0.009	65.5	ug/L	1	KED
[>	In-1	115	8589.5	1.0				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		103.428
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		81.011
[>	Tb	159		86.372
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		101.270
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		103.131

Quantitative Analysis - Summary Report

Sample ID: 05-223-04d 2X

Sample Date/Time: Tuesday, May 24, 2022 09:35:40

Report Date/Time: Tuesday, May 24, 2022 16:08:51

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-04d 2X.035

re-run

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	419448.3	0.9				ug/L	472558	Standard
[	Mn	55	38326016.3	1.3	2581.8507	10.678	0.4	ug/L	4329	Standard
	Ge	72	198159.7	2.2				ug/L	268191	Standard
	Y	89	432933.1	0.8				ug/L	613650	Standard
[	Rh	103	317764.5	1.1				ug/L	493492	Standard
[>	In	115	293527.9	0.3				ug/L	460122	Standard
[>	Tb	159	393659.2	0.4				ug/L	559377	Standard
[	Ho	165	398260.5	0.3				ug/L	568462	Standard
	Pb	208	891.3	3.6	0.0207	0.001	6.1	ug/L	475	Standard
	Bi	209	197350.6	1.2				ug/L	321374	Standard
[	Th	232	276680.7	0.6				ug/L	403167	Standard
[	Cr-1	52	707.4	1.2	0.9476	0.019	2.0	ug/L	89	KED
	Cr-1	53	84.7	4.1	0.9211	0.032	3.4	ug/L	10	KED
[>	Ge-1	72	6613.9	1.6				ug/L	8249	KED
[	As-2	75	87.3	14.6	2.3817	0.325	13.6	ug/L	1	KED
	Y-1	89	11675.4	1.6				ug/L	14628	KED
	Rh-1	103	66285.8	0.7				ug/L	92584	KED
[	Cd-1	111	2.7	43.3	0.0077	0.009	112.2	ug/L	2	KED
[	Cd-1	114	3.4	68.9	0.0073	0.007	95.5	ug/L	1	KED
[>	In-1	115	6813.7	0.5				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		88.761
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		63.794
[>	Tb	159		70.375
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		80.174
[	As-2	75		
	Y-1	89		
	Rh-1	103		
	Cd-1	111		
	Cd-1	114		
[>	In-1	115		81.810

Quantitative Analysis - Summary Report

Sample ID: 05-223-05d 2X

Sample Date/Time: Tuesday, May 24, 2022 09:41:10

Report Date/Time: Tuesday, May 24, 2022 16:08:54

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-05d 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	509161.2	1.8				ug/L	472558	Standard
[	Mn	55	17920341.5	1.8	994.3764	3.940	0.4	ug/L	4329	Standard
	Ge	72	254434.8	2.6				ug/L	268191	Standard
	Y	89	575254.4	0.9				ug/L	613650	Standard
[	Rh	103	422997.2	1.7				ug/L	493492	Standard
[>	In	115	389284.6	0.5				ug/L	460122	Standard
[>	Tb	159	500656.0	0.9				ug/L	559377	Standard
[	Ho	165	511352.8	1.2				ug/L	568462	Standard
[	Pb	208	566.0	0.9	0.0041	0.000	1.6	ug/L	475	Standard
[	Bi	209	268038.2	0.4				ug/L	321374	Standard
[	Th	232	355406.8	0.6				ug/L	403167	Standard
[	Cr-1	52	1084.0	0.7	1.1124	0.013	1.1	ug/L	89	KED
[	Cr-1	53	139.3	7.9	1.1673	0.099	8.4	ug/L	10	KED
[>	Ge-1	72	8764.7	1.2				ug/L	8249	KED
[	As-2	75	127.7	15.7	2.6316	0.407	15.5	ug/L	1	KED
[	Y-1	89	15752.3	0.7				ug/L	14628	KED
[	Rh-1	103	89033.3	0.5				ug/L	92584	KED
[	Cd-1	111	2.0	50.0	-0.0011	0.005	490.6	ug/L	2	KED
[	Cd-1	114	2.5	84.6	0.0028	0.005	172.8	ug/L	1	KED
[>	In-1	115	9130.5	1.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.746
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		84.605
[>	Tb	159		89.502
[	Ho	165		
[	Pb	208		
[	Bi	209		
[	Th	232		
[	Cr-1	52		
[	Cr-1	53		
[>	Ge-1	72		106.247
[	As-2	75		
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		109.627

Sample ID: 05-223-05d 2X

Report Date/Time: Tuesday, May 24, 2022 16:08:54

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Quantitative Analysis - Summary Report

Sample ID: 05-223-06c 2X

Sample Date/Time: Tuesday, May 24, 2022 09:46:41

Report Date/Time: Tuesday, May 24, 2022 16:08:56

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-06c 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	497757.9	1.6				ug/L	472558	Standard
[	Mn	55	783409.6	2.5	44.2151	0.546	1.2	ug/L	4329	Standard
	Ge	72	253295.5	2.6				ug/L	268191	Standard
	Y	89	552788.2	2.4				ug/L	613650	Standard
[	Rh	103	417828.5	1.5				ug/L	493492	Standard
[>	In	115	385150.6	1.8				ug/L	460122	Standard
[>	Tb	159	495909.9	0.8				ug/L	559377	Standard
|	Ho	165	505704.7	1.5				ug/L	568462	Standard
|	Pb	208	763.3	5.2	0.0101	0.001	9.9	ug/L	475	Standard
|	Bi	209	263989.5	0.1				ug/L	321374	Standard
[	Th	232	349491.8	0.6				ug/L	403167	Standard
[	Cr-1	52	964.0	4.3	0.9618	0.043	4.5	ug/L	89	KED
|	Cr-1	53	123.0	5.3	1.0034	0.061	6.0	ug/L	10	KED
[>	Ge-1	72	8891.8	0.2				ug/L	8249	KED
[	As-2	75	48.0	16.3	0.9573	0.162	16.9	ug/L	1	KED
	Y-1	89	15298.2	1.7				ug/L	14628	KED
	Rh-1	103	89332.8	0.9				ug/L	92584	KED
[	Cd-1	111	2.0	100.0	-0.0011	0.011	1024.0	ug/L	2	KED
|	Cd-1	114	1.8	21.7	0.0011	0.001	79.7	ug/L	1	KED
[>	In-1	115	9099.6	1.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		105.333
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		83.706
[>	Tb	159		88.654
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		107.787
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		109.256

Quantitative Analysis - Summary Report

Sample ID: 05-223-07d 2X

Sample Date/Time: Tuesday, May 24, 2022 09:52:11

Report Date/Time: Tuesday, May 24, 2022 16:08:58

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-07d 2X.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	484499.7	2.5				ug/L	472558	Standard
[	Mn	55	102301.5	3.0	5.7077	0.042	0.7	ug/L	4329	Standard
	Ge	72	259203.5	1.0				ug/L	268191	Standard
	Y	89	559981.3	2.0				ug/L	613650	Standard
[	Rh	103	431257.1	2.1				ug/L	493492	Standard
[>	In	115	394732.6	1.3				ug/L	460122	Standard
[>	Tb	159	501885.2	1.3				ug/L	559377	Standard
|	Ho	165	515749.9	0.4				ug/L	568462	Standard
|	Pb	208	395.0	3.7	-0.0009	0.001	56.1	ug/L	475	Standard
|	Bi	209	273957.6	0.3				ug/L	321374	Standard
[	Th	232	354677.7	0.6				ug/L	403167	Standard
[	Cr-1	52	1007.7	2.6	0.9817	0.024	2.4	ug/L	89	KED
|	Cr-1	53	121.3	5.6	0.9607	0.059	6.2	ug/L	10	KED
[>	Ge-1	72	9124.6	0.4				ug/L	8249	KED
[	As-2	75	94.0	14.7	1.8532	0.277	14.9	ug/L	1	KED
	Y-1	89	15209.8	1.5				ug/L	14628	KED
	Rh-1	103	91378.0	0.6				ug/L	92584	KED
[	Cd-1	111	2.3	24.7	0.0004	0.003	780.3	ug/L	2	KED
|	Cd-1	114	5.1	31.1	0.0081	0.003	42.7	ug/L	1	KED
[>	In-1	115	9409.9	1.0				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		102.527
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		85.789
[>	Tb	159		89.722
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		110.609
[	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		112.981

Sample ID: 05-223-07d 2X

Report Date/Time: Tuesday, May 24, 2022 16:08:58

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Quantitative Analysis - Summary Report

Sample ID: 05-223-08d 2X

Sample Date/Time: Tuesday, May 24, 2022 09:57:41

Report Date/Time: Tuesday, May 24, 2022 16:09:01

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-08d 2X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	510070.0	2.7				ug/L	472558	Standard
[	Mn	55	708566.9	3.1	38.9969	0.369	0.9	ug/L	4329	Standard
	Ge	72	253215.2	3.5				ug/L	268191	Standard
	Y	89	555759.2	2.4				ug/L	613650	Standard
[	Rh	103	418703.2	3.0				ug/L	493492	Standard
[>	In	115	382171.9	1.4				ug/L	460122	Standard
[>	Tb	159	495347.8	1.5				ug/L	559377	Standard
|	Ho	165	503844.2	1.2				ug/L	568462	Standard
|	Pb	208	794.0	3.1	0.0110	0.001	7.4	ug/L	475	Standard
|	Bi	209	260689.4	0.4				ug/L	321374	Standard
[	Th	232	348547.4	0.3				ug/L	403167	Standard
[	Cr-1	52	1228.1	1.6	1.2410	0.011	0.9	ug/L	89	KED
|	Cr-1	53	147.0	0.7	1.2050	0.016	1.3	ug/L	10	KED
[>	Ge-1	72	8980.8	1.8				ug/L	8249	KED
[	As-2	75	60.0	12.0	1.1901	0.125	10.5	ug/L	1	KED
	Y-1	89	15651.6	0.4				ug/L	14628	KED
	Rh-1	103	89206.0	1.0				ug/L	92584	KED
[	Cd-1	111	1.7	69.3	-0.0031	0.006	197.3	ug/L	2	KED
|	Cd-1	114	2.5	57.7	0.0027	0.003	116.9	ug/L	1	KED
[>	In-1	115	9277.7	2.1				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.938
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		83.059
[>	Tb	159		88.553
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		108.867
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		111.394

Sample ID: 05-223-08d 2X

Report Date/Time: Tuesday, May 24, 2022 16:09:01

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 10:03:12

Report Date/Time: Tuesday, May 24, 2022 16:09:03

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 6.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	461039.9	1.6				ug/L	472558	Standard
[	Mn	55	670506.1	1.4	40.8409	0.064	0.2	ug/L	4329	Standard
	Ge	72	260819.2	2.3				ug/L	268191	Standard
	Y	89	557479.1	1.8				ug/L	613650	Standard
[	Rh	103	444566.1	1.8				ug/L	493492	Standard
[>	In	115	400719.3	1.0				ug/L	460122	Standard
[>	Tb	159	506402.3	0.3				ug/L	559377	Standard
|	Ho	165	515255.2	0.2				ug/L	568462	Standard
|	Pb	208	1406558.4	0.8	40.6720	0.229	0.6	ug/L	475	Standard
|	Bi	209	288411.4	0.9				ug/L	321374	Standard
[	Th	232	359155.0	1.0				ug/L	403167	Standard
[	Cr-1	52	35618.7	1.0	37.3035	0.591	1.6	ug/L	89	KED
|	Cr-1	53	4430.0	0.2	37.4499	0.886	2.4	ug/L	10	KED
[>	Ge-1	72	9382.7	2.1				ug/L	8249	KED
[	As-2	75	2167.5	1.9	42.2135	1.650	3.9	ug/L	1	KED
	Y-1	89	15800.7	2.5				ug/L	14628	KED
	Rh-1	103	95816.3	1.3				ug/L	92584	KED
[	Cd-1	111	7661.7	1.2	39.9216	0.192	0.5	ug/L	2	KED
|	Cd-1	114	19299.9	1.1	39.6964	0.377	0.9	ug/L	1	KED
[>	In-1	115	9742.3	0.8				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		97.563
[	Mn	55	102.102	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		87.090
[>	Tb	159		90.530
|	Ho	165		
|	Pb	208	101.680	
|	Bi	209		
|	Th	232		
|	Cr-1	52	93.259	
|	Cr-1	53	93.625	
[>	Ge-1	72		113.739
[	As-2	75	105.534	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	99.804	
|	Cd-1	114	99.241	
[>	In-1	115		116.973

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:09:03

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Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 10:08:43

Report Date/Time: Tuesday, May 24, 2022 16:09:05

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 7.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	448897.2	1.8				ug/L	472558	Standard
[	Mn	55	321276.1	2.6	19.9649	0.173	0.9	ug/L	4329	Standard
	Ge	72	253045.4	2.0				ug/L	268191	Standard
	Y	89	539655.0	2.3				ug/L	613650	Standard
[	Rh	103	434181.8	3.0				ug/L	493492	Standard
[>	In	115	379393.9	0.8				ug/L	460122	Standard
[>	Tb	159	487067.8	0.5				ug/L	559377	Standard
|	Ho	165	493343.1	0.4				ug/L	568462	Standard
|	Pb	208	668280.8	0.3	20.0850	0.040	0.2	ug/L	475	Standard
|	Bi	209	274893.0	0.7				ug/L	321374	Standard
[	Th	232	345807.8	1.2				ug/L	403167	Standard
[	Cr-1	52	17011.8	1.9	18.8209	0.782	4.2	ug/L	89	KED
|	Cr-1	53	2114.8	2.8	18.8897	0.914	4.8	ug/L	10	KED
[>	Ge-1	72	8861.1	2.3				ug/L	8249	KED
[	As-2	75	1006.4	1.0	20.7378	0.674	3.3	ug/L	1	KED
	Y-1	89	15272.8	1.5				ug/L	14628	KED
	Rh-1	103	92111.4	1.6				ug/L	92584	KED
[	Cd-1	111	3681.8	3.1	19.6113	0.567	2.9	ug/L	2	KED
|	Cd-1	114	9177.5	0.9	19.3013	0.125	0.6	ug/L	1	KED
[>	In-1	115	9527.0	0.4				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.993
[	Mn	55	99.824	
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		82.455
[>	Tb	159		87.073
|	Ho	165		
|	Pb	208	100.425	
|	Bi	209		
[	Th	232		
|	Cr-1	52	94.104	
|	Cr-1	53	94.449	
[>	Ge-1	72		107.415
[	As-2	75	103.689	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	98.056	
|	Cd-1	114	96.506	
[>	In-1	115		114.387

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 10:14:13

Report Date/Time: Tuesday, May 24, 2022 16:09:08

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 8.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	473286.1	2.0				ug/L	472558	Standard
[	Mn	55	4621.1	7.2	0.0170	0.018	108.8	ug/L	4329	Standard
	Ge	72	271001.9	3.0				ug/L	268191	Standard
	Y	89	572643.1	1.9				ug/L	613650	Standard
[	Rh	103	459245.4	1.3				ug/L	493492	Standard
[>	In	115	410027.1	0.6				ug/L	460122	Standard
[>	Tb	159	517414.6	1.9				ug/L	559377	Standard
|	Ho	165	525366.5	2.2				ug/L	568462	Standard
|	Pb	208	722.7	4.0	0.0080	0.001	8.4	ug/L	475	Standard
|	Bi	209	294038.7	2.7				ug/L	321374	Standard
[	Th	232	365612.5	2.2				ug/L	403167	Standard
[	Cr-1	52	93.7	17.3	-0.0138	0.017	124.1	ug/L	89	KED
|	Cr-1	53	13.0	27.7	0.0067	0.027	401.1	ug/L	10	KED
[>	Ge-1	72	9998.8	1.5				ug/L	8249	KED
[	As-2	75	2.3	89.2	0.0129	0.038	292.3	ug/L	1	KED
	Y-1	89	16930.4	0.4				ug/L	14628	KED
	Rh-1	103	100604.7	0.9				ug/L	92584	KED
[	Cd-1	111	3.7	103.3	0.0059	0.019	319.2	ug/L	2	KED
|	Cd-1	114	9.6	17.0	0.0159	0.003	20.8	ug/L	1	KED
[>	In-1	115	10343.1	0.8				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		100.154
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		89.113
[>	Tb	159		92.498
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		121.207
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		124.186

Quantitative Analysis - Summary Report

Sample ID: 05-223-09d 2X

Sample Date/Time: Tuesday, May 24, 2022 10:20:11

Report Date/Time: Tuesday, May 24, 2022 16:09:10

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-09d 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	508856.5	1.5				ug/L	472558	Standard
[	Mn	55	659780.6	2.0	36.3820	0.408	1.1	ug/L	4329	Standard
	Ge	72	253105.2	2.6				ug/L	268191	Standard
	Y	89	552118.4	2.3				ug/L	613650	Standard
[	Rh	103	415962.8	2.7				ug/L	493492	Standard
[>	In	115	377263.3	0.3				ug/L	460122	Standard
[>	Tb	159	489570.7	0.6				ug/L	559377	Standard
[	Ho	165	494972.2	0.8				ug/L	568462	Standard
	Pb	208	786.0	2.9	0.0111	0.001	6.4	ug/L	475	Standard
	Bi	209	257844.1	0.3				ug/L	321374	Standard
[	Th	232	345553.1	0.7				ug/L	403167	Standard
[	Cr-1	52	1324.4	1.5	1.3113	0.028	2.1	ug/L	89	KED
	Cr-1	53	160.7	3.1	1.2910	0.035	2.7	ug/L	10	KED
[>	Ge-1	72	9205.3	0.6				ug/L	8249	KED
[	As-2	75	44.7	17.0	0.8567	0.146	17.0	ug/L	1	KED
	Y-1	89	16062.0	2.6				ug/L	14628	KED
	Rh-1	103	90648.4	1.2				ug/L	92584	KED
[	Cd-1	111	2.7	94.4	0.0019	0.013	691.4	ug/L	2	KED
	Cd-1	114	3.3	57.6	0.0042	0.004	97.4	ug/L	1	KED
[>	In-1	115	9521.5	1.5				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.681
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		81.992
[>	Tb	159		87.521
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		111.588
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		114.322

Quantitative Analysis - Summary Report

Sample ID: 05-223-02dD 2X

Sample Date/Time: Tuesday, May 24, 2022 10:25:42

Report Date/Time: Tuesday, May 24, 2022 16:09:12

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dD 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	477114.4	1.0				ug/L	472558	Standard
[	Mn	55	218781.4	1.1	12.6997	0.046	0.4	ug/L	4329	Standard
	Ge	72	249700.8	1.7				ug/L	268191	Standard
	Y	89	535595.9	1.8				ug/L	613650	Standard
[	Rh	103	413398.8	0.9				ug/L	493492	Standard
>	In	115	371079.5	0.5				ug/L	460122	Standard
>	Tb	159	485243.3	0.5				ug/L	559377	Standard
	Ho	165	489643.3	0.5				ug/L	568462	Standard
	Pb	208	1226.7	2.4	0.0246	0.001	2.9	ug/L	475	Standard
	Bi	209	256368.7	1.0				ug/L	321374	Standard
	Th	232	341212.9	0.6				ug/L	403167	Standard
[	Cr-1	52	615.7	0.5	0.5629	0.005	1.0	ug/L	89	KED
	Cr-1	53	77.0	15.0	0.5788	0.100	17.3	ug/L	10	KED
>	Ge-1	72	9065.2	0.6				ug/L	8249	KED
[	As-2	75	30.3	9.5	0.5821	0.059	10.1	ug/L	1	KED
	Y-1	89	15673.3	1.5				ug/L	14628	KED
	Rh-1	103	89821.8	0.6				ug/L	92584	KED
[	Cd-1	111	3.7	15.7	0.0071	0.003	44.1	ug/L	2	KED
	Cd-1	114	4.5	59.0	0.0065	0.005	83.9	ug/L	1	KED
>	In-1	115	9665.2	2.0				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.964
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		80.648
>	Tb	159		86.747
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		109.890
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		116.047

Sample ID: 05-223-02dD 2X

Report Date/Time: Tuesday, May 24, 2022 16:09:12

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Quantitative Analysis - Summary Report

Sample ID: 05-223-02dL 10X

Sample Date/Time: Tuesday, May 24, 2022 10:31:11

Report Date/Time: Tuesday, May 24, 2022 16:09:14

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dL 10X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	453670.2	1.4				ug/L	472558	Standard
[	Mn	55	49307.7	2.9	2.8122	0.050	1.8	ug/L	4329	Standard
	Ge	72	249025.6	1.1				ug/L	268191	Standard
	Y	89	519777.5	1.4				ug/L	613650	Standard
[	Rh	103	410286.5	0.7				ug/L	493492	Standard
[>	In	115	372867.1	0.5				ug/L	460122	Standard
[>	Tb	159	480571.8	1.6				ug/L	559377	Standard
[	Ho	165	489981.3	0.5				ug/L	568462	Standard
|	Pb	208	532.7	3.4	0.0038	0.001	18.2	ug/L	475	Standard
|	Bi	209	268376.5	0.5				ug/L	321374	Standard
[	Th	232	342236.9	0.1				ug/L	403167	Standard
[	Cr-1	52	201.7	4.5	0.1048	0.006	6.0	ug/L	89	KED
|	Cr-1	53	23.3	8.9	0.1006	0.015	14.6	ug/L	10	KED
[>	Ge-1	72	9409.8	1.5				ug/L	8249	KED
[	As-2	75	8.0	33.1	0.1264	0.054	42.8	ug/L	1	KED
	Y-1	89	15854.1	0.7				ug/L	14628	KED
	Rh-1	103	93166.5	0.8				ug/L	92584	KED
[	Cd-1	111	5.3	28.6	0.0154	0.007	48.5	ug/L	2	KED
|	Cd-1	114	2.2	45.4	0.0017	0.002	116.9	ug/L	1	KED
[>	In-1	115	9800.3	1.5				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.003
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		81.037
[>	Tb	159		85.912
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		114.066
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		117.669

Sample ID: 05-223-02dL 10X

Report Date/Time: Tuesday, May 24, 2022 16:09:14

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Quantitative Analysis - Summary Report

Sample ID: 05-223-02dMS 2X

Sample Date/Time: Tuesday, May 24, 2022 10:36:41

Report Date/Time: Tuesday, May 24, 2022 16:09:15

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dMS 2X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	487267.4	1.6				ug/L	472558	Standard
[	Mn	55	834219.8	1.2	48.1265	0.483	1.0	ug/L	4329	Standard
	Ge	72	249588.0	3.0				ug/L	268191	Standard
	Y	89	531096.5	2.9				ug/L	613650	Standard
[	Rh	103	405780.4	2.4				ug/L	493492	Standard
[>	In	115	368733.6	1.4				ug/L	460122	Standard
[>	Tb	159	482550.0	0.4				ug/L	559377	Standard
|	Ho	165	489928.9	0.5				ug/L	568462	Standard
|	Pb	208	1260189.7	0.2	38.2405	0.116	0.3	ug/L	475	Standard
|	Bi	209	255828.7	0.6				ug/L	321374	Standard
[	Th	232	341782.2	0.4				ug/L	403167	Standard
[	Cr-1	52	33782.2	0.2	36.6463	0.427	1.2	ug/L	89	KED
|	Cr-1	53	4252.6	1.7	37.2282	0.158	0.4	ug/L	10	KED
[>	Ge-1	72	9057.2	1.3				ug/L	8249	KED
[	As-2	75	2246.2	1.4	45.2963	0.310	0.7	ug/L	1	KED
	Y-1	89	15643.6	1.1				ug/L	14628	KED
	Rh-1	103	89535.0	0.9				ug/L	92584	KED
[	Cd-1	111	7416.6	2.0	39.5782	1.099	2.8	ug/L	2	KED
|	Cd-1	114	18747.5	1.3	39.4874	0.682	1.7	ug/L	1	KED
[>	In-1	115	9514.5	1.4				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		103.113
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		80.138
[>	Tb	159		86.266
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		109.793
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		114.237

Quantitative Analysis - Summary Report

Sample ID: 05-223-02dMSD 2X

Sample Date/Time: Tuesday, May 24, 2022 10:42:10

Report Date/Time: Tuesday, May 24, 2022 16:09:17

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-02dMSD 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	481321.7	1.6				ug/L	472558	Standard
[	Mn	55	828567.3	2.3	48.3876	0.713	1.5	ug/L	4329	Standard
	Ge	72	251856.3	2.5				ug/L	268191	Standard
	Y	89	534792.0	0.5				ug/L	613650	Standard
[	Rh	103	406299.2	1.1				ug/L	493492	Standard
[>	In	115	366825.7	0.6				ug/L	460122	Standard
[>	Tb	159	484857.0	1.1				ug/L	559377	Standard
|	Ho	165	488327.7	0.4				ug/L	568462	Standard
|	Pb	208	1241344.2	0.5	37.4918	0.426	1.1	ug/L	475	Standard
|	Bi	209	256262.8	0.8				ug/L	321374	Standard
[	Th	232	341529.7	0.6				ug/L	403167	Standard
[	Cr-1	52	33796.3	1.0	35.8958	0.616	1.7	ug/L	89	KED
|	Cr-1	53	4149.3	1.7	35.5639	0.515	1.4	ug/L	10	KED
[>	Ge-1	72	9249.7	0.7				ug/L	8249	KED
[	As-2	75	2237.5	3.8	44.1851	1.770	4.0	ug/L	1	KED
	Y-1	89	15847.5	0.6				ug/L	14628	KED
	Rh-1	103	89446.2	0.4				ug/L	92584	KED
[	Cd-1	111	7476.6	1.6	39.5957	1.284	3.2	ug/L	2	KED
|	Cd-1	114	18711.5	1.2	39.1119	0.989	2.5	ug/L	1	KED
[>	In-1	115	9588.9	1.7				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		101.854
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		79.724
[>	Tb	159		86.678
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		112.125
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		115.131

Sample ID: 05-223-02dMSD 2X

Report Date/Time: Tuesday, May 24, 2022 16:09:17

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Quantitative Analysis - Summary Report

Sample ID: 05-223-03c 25X

Sample Date/Time: Tuesday, May 24, 2022 10:47:39

Report Date/Time: Tuesday, May 24, 2022 16:09:20

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-03c 25X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	439279.1	2.1				ug/L	472558	Standard
[	Mn	55	845747.8	2.2	54.1500	0.367	0.7	ug/L	4329	Standard
	Ge	72	243033.7	3.4				ug/L	268191	Standard
	Y	89	516099.2	2.4				ug/L	613650	Standard
[	Rh	103	408545.6	1.7				ug/L	493492	Standard
[>	In	115	364035.6	1.5				ug/L	460122	Standard
[>	Tb	159	474047.0	0.5				ug/L	559377	Standard
|	Ho	165	476041.6	0.2				ug/L	568462	Standard
|	Pb	208	1044.7	4.6	0.0198	0.002	8.2	ug/L	475	Standard
|	Bi	209	264522.6	0.2				ug/L	321374	Standard
[	Th	232	333389.1	0.8				ug/L	403167	Standard
[	Cr-1	52	126.0	13.8	0.0281	0.018	62.9	ug/L	89	KED
|	Cr-1	53	18.0	14.7	0.0587	0.024	40.3	ug/L	10	KED
[>	Ge-1	72	9231.6	0.6				ug/L	8249	KED
[	As-2	75	6.3	71.2	0.0960	0.089	93.1	ug/L	1	KED
	Y-1	89	15678.6	2.6				ug/L	14628	KED
	Rh-1	103	91702.1	1.2				ug/L	92584	KED
[	Cd-1	111	5.0	34.6	0.0139	0.009	65.2	ug/L	2	KED
|	Cd-1	114	7.9	20.9	0.0135	0.003	25.4	ug/L	1	KED
[>	In-1	115	9721.8	0.2				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.958
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		79.117
[>	Tb	159		84.745
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		111.907
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		116.726

Sample ID: 05-223-03c 25X

Report Date/Time: Tuesday, May 24, 2022 16:09:20

Quantitative Analysis - Summary Report

Sample ID: 05-223-04d 100X

Sample Date/Time: Tuesday, May 24, 2022 10:53:08

Report Date/Time: Tuesday, May 24, 2022 16:09:23

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-04d 100X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	420874.6	2.4				ug/L	472558	Standard
[	Mn	55	798798.5	2.3	53.3801	0.648	1.2	ug/L	4329	Standard
	Ge	72	240501.9	1.7				ug/L	268191	Standard
	Y	89	499533.9	2.3				ug/L	613650	Standard
[	Rh	103	397137.6	1.5				ug/L	493492	Standard
[>	In	115	356945.9	0.5				ug/L	460122	Standard
[>	Tb	159	454028.3	1.1				ug/L	559377	Standard
[	Ho	165	460331.9	1.3				ug/L	568462	Standard
|	Pb	208	351.3	21.6	-0.0011	0.002	220.8	ug/L	475	Standard
|	Bi	209	258294.5	0.2				ug/L	321374	Standard
[	Th	232	322736.9	0.5				ug/L	403167	Standard
[	Cr-1	52	90.3	3.6	-0.0089	0.004	47.5	ug/L	89	KED
|	Cr-1	53	11.3	62.6	0.0019	0.061	3177.8	ug/L	10	KED
[>	Ge-1	72	9142.6	1.0				ug/L	8249	KED
[	As-2	75	1.7	34.6	0.0038	0.012	305.5	ug/L	1	KED
	Y-1	89	15293.5	1.1				ug/L	14628	KED
	Rh-1	103	90088.9	1.2				ug/L	92584	KED
[	Cd-1	111	3.3	62.4	0.0058	0.011	195.5	ug/L	2	KED
|	Cd-1	114	2.3	105.0	0.0021	0.005	245.7	ug/L	1	KED
[>	In-1	115	9465.2	1.6				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		89.063
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		77.576
[>	Tb	159		81.167
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		110.828
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		113.645

Quantitative Analysis - Summary Report

Sample ID: 05-223-05d 25X

Sample Date/Time: Tuesday, May 24, 2022 10:58:36

Report Date/Time: Tuesday, May 24, 2022 16:09:25

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\05-223-05d 25X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	418511.5	1.6				ug/L	472558	Standard
[	Mn	55	1383769.9	3.4	93.1621	1.687	1.8	ug/L	4329	Standard
	Ge	72	237026.0	2.6				ug/L	268191	Standard
	Y	89	493274.4	3.2				ug/L	613650	Standard
[	Rh	103	391530.0	2.7				ug/L	493492	Standard
[>	In	115	353871.5	1.7				ug/L	460122	Standard
[>	Tb	159	452643.7	0.6				ug/L	559377	Standard
|	Ho	165	456121.7	0.5				ug/L	568462	Standard
|	Pb	208	371.7	1.1	-0.0004	0.000	48.6	ug/L	475	Standard
|	Bi	209	256609.9	0.5				ug/L	321374	Standard
[	Th	232	320709.1	0.8				ug/L	403167	Standard
[	Cr-1	52	152.7	19.0	0.0595	0.030	49.8	ug/L	89	KED
|	Cr-1	53	19.7	36.1	0.0766	0.064	83.4	ug/L	10	KED
[>	Ge-1	72	9058.5	1.3				ug/L	8249	KED
[	As-2	75	9.3	12.4	0.1589	0.024	15.2	ug/L	1	KED
	Y-1	89	15270.5	2.0				ug/L	14628	KED
	Rh-1	103	89355.2	0.2				ug/L	92584	KED
[	Cd-1	111	2.0	50.0	-0.0015	0.005	350.5	ug/L	2	KED
|	Cd-1	114	2.4	76.8	0.0024	0.004	168.3	ug/L	1	KED
[>	In-1	115	9525.8	1.0				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		88.563
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		76.908
[>	Tb	159		80.919
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[>	Ge-1	72		109.809
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
[>	In-1	115		114.373

Sample ID: 05-223-05d 25X

Report Date/Time: Tuesday, May 24, 2022 16:09:25

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Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 11:15:55

Report Date/Time: Tuesday, May 24, 2022 16:09:28

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 6.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	444124.4	2.7				ug/L	472558	Standard
[	Mn	55	674126.9	3.9	42.6277	0.651	1.5	ug/L	4329	Standard
	Ge	72	253702.2	4.5				ug/L	268191	Standard
	Y	89	532002.8	3.2				ug/L	613650	Standard
[	Rh	103	427747.7	4.0				ug/L	493492	Standard
[>	In	115	372644.8	2.7				ug/L	460122	Standard
[>	Tb	159	479565.4	1.3				ug/L	559377	Standard
[	Ho	165	485487.5	1.5				ug/L	568462	Standard
[	Pb	208	1369725.0	1.1	41.8248	0.143	0.3	ug/L	475	Standard
[	Bi	209	270361.7	0.4				ug/L	321374	Standard
[	Th	232	334581.6	1.5				ug/L	403167	Standard
[	Cr-1	52	36661.3	0.1	37.1818	0.246	0.7	ug/L	89	KED
[	Cr-1	53	4516.7	1.6	36.9703	0.668	1.8	ug/L	10	KED
[>	Ge-1	72	9687.3	0.7				ug/L	8249	KED
[	As-2	75	2268.8	2.8	42.7714	0.905	2.1	ug/L	1	KED
[	Y-1	89	16282.6	2.3				ug/L	14628	KED
[	Rh-1	103	96576.3	0.2				ug/L	92584	KED
[	Cd-1	111	8353.4	2.0	40.8927	0.457	1.1	ug/L	2	KED
[	Cd-1	114	20845.9	0.8	40.2869	0.606	1.5	ug/L	1	KED
[>	In-1	115	10369.4	1.1				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.983
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		80.988
[>	Tb	159		85.732
[	Ho	165		
[	Pb	208		
[	Bi	209		
[	Th	232		
[	Cr-1	52		
[	Cr-1	53		
[>	Ge-1	72		117.430
[	As-2	75		
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		124.502

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 11:28:50
 Report Date/Time: Tuesday, May 24, 2022 16:09:30
 Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 7.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	400744.0	1.3				ug/L	472558	Standard
[	Mn	55	293847.9	3.1	20.4596	0.392	1.9	ug/L	4329	Standard
	Ge	72	226198.8	2.4				ug/L	268191	Standard
	Y	89	471837.6	2.6				ug/L	613650	Standard
[	Rh	103	379612.1	1.3				ug/L	493492	Standard
[>	In	115	330564.4	1.3				ug/L	460122	Standard
[>	Tb	159	428699.0	0.9				ug/L	559377	Standard
[	Ho	165	434954.2	0.8				ug/L	568462	Standard
|	Pb	208	596298.3	0.6	20.3622	0.083	0.4	ug/L	475	Standard
|	Bi	209	242695.3	0.9				ug/L	321374	Standard
[	Th	232	301825.8	0.4				ug/L	403167	Standard
[	Cr-1	52	16215.9	1.1	18.0016	0.253	1.4	ug/L	89	KED
|	Cr-1	53	2010.8	1.1	18.0201	0.113	0.6	ug/L	10	KED
[>	Ge-1	72	8823.4	0.5				ug/L	8249	KED
[	As-2	75	1040.7	3.2	21.5263	0.638	3.0	ug/L	1	KED
	Y-1	89	15212.1	1.7				ug/L	14628	KED
	Rh-1	103	88654.9	0.8				ug/L	92584	KED
[	Cd-1	111	3675.5	0.3	19.4487	0.251	1.3	ug/L	2	KED
|	Cd-1	114	9096.4	1.4	19.0027	0.152	0.8	ug/L	1	KED
[>	In-1	115	9591.3	1.1				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		84.803
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		71.843
[>	Tb	159		76.639
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		106.958
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		115.160

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 11:34:19

Report Date/Time: Tuesday, May 24, 2022 16:09:33

Method File: C:\NexIONData_kmckinney\Method\X220524A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524A\QC Std 8.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	413672.6	3.0				ug/L	472558	Standard
[	Mn	55	4116.9	4.1	0.0223	0.008	36.1	ug/L	4329	Standard
	Ge	72	236903.6	2.4				ug/L	268191	Standard
	Y	89	491889.5	2.4				ug/L	613650	Standard
[	Rh	103	394429.1	3.2				ug/L	493492	Standard
[>	In	115	351496.1	1.1				ug/L	460122	Standard
[>	Tb	159	448903.3	1.0				ug/L	559377	Standard
|	Ho	165	456173.1	0.8				ug/L	568462	Standard
|	Pb	208	664.7	37.3	0.0093	0.008	89.1	ug/L	475	Standard
|	Bi	209	259111.6	1.0				ug/L	321374	Standard
[	Th	232	316179.0	0.1				ug/L	403167	Standard
[	Cr-1	52	83.7	16.3	-0.0179	0.014	80.3	ug/L	89	KED
|	Cr-1	53	9.7	26.0	-0.0140	0.021	152.3	ug/L	10	KED
[>	Ge-1	72	9319.7	0.3				ug/L	8249	KED
[	As-2	75	2.3	65.5	0.0163	0.030	185.1	ug/L	1	KED
	Y-1	89	15962.6	1.3				ug/L	14628	KED
	Rh-1	103	92101.7	1.6				ug/L	92584	KED
[	Cd-1	111	4.0	43.3	0.0079	0.009	107.7	ug/L	2	KED
|	Cd-1	114	3.5	2.5	0.0042	0.000	3.9	ug/L	1	KED
[>	In-1	115	10084.6	1.4				ug/L	8329	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		87.539
[	Mn	55		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		76.392
[>	Tb	159		80.251
|	Ho	165		
|	Pb	208		
|	Bi	209		
[	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		112.975
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		121.082

Dataset Report

5-24-22
KOM

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220524B\
 Report Date/Time: Tuesday, May 24, 2022 16:06:11

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	11:41:13 Tue 24-	MBlank	C:\NexIONData_kmckinney\DataSet\X220524B\Blank.001	
	Standard 1	11:45:54 Tue 24-	MStandard #1	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 1.002	
	Standard 2	11:50:35 Tue 24-	MStandard #2	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 2.003	
	Standard 3	11:55:16 Tue 24-	MStandard #3	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 3.004	
	Standard 4	11:59:56 Tue 24-	MStandard #4	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 4.005	
	Standard 5	12:04:36 Tue 24-	MStandard #5	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 5.006	
	Standard 6	12:09:16 Tue 24-	MStandard #6	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 6.007	
	Standard 7	12:13:57 Tue 24-	MStandard #7	C:\NexIONData_kmckinney\DataSet\X220524B\Standard 7.008	
	QC Std 1	12:19:27 Tue 24-	MQC Std #1	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 1.009	
	QC Std 2	12:24:58 Tue 24-	MQC Std #2	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 2.010	
	QC Std 6	12:29:38 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.011	
	QC Std 7	12:35:07 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.012	
	QC Std 8	12:40:38 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.013	
	MB0524WM1 2X	12:45:17 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\MB0524WM1 2X.014	
	SB0524WM1 2X	12:50:47 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\SB0524WM1 2X.015	
	05-223-01c 2X	12:56:29 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01c 2X.016	
	05-223-01cD 2X	13:01:58 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cD 2X.017	
	05-223-01cL 10X	13:07:27 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cL 10X.018	
	05-223-01cMS 2X	13:12:55 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMS 2X.019	
	05-223-01cMSD 2X	13:20:22 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMSD 2X.020	
	05-223-01cPS 2X	13:25:54 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cPS 2X.021	
	05-223-02c 2X	13:31:24 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-02c 2X.022	
	05-223-03d 2X	13:36:53 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-03d 2X.023	
	QC Std 6	13:42:24 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.024	
	QC Std 7	13:47:55 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.025	
	QC Std 8	13:53:26 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.026	
	05-223-04c 2X	13:59:03 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.027	
	05-223-05c 2X	14:04:33 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-05c 2X.028	
	05-223-06b 2X	14:10:03 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-06b 2X.029	
	05-223-07c 2X	14:15:32 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-07c 2X.030	
	05-223-08c 2X	14:21:01 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-08c 2X.031	
	05-223-09c 2X	14:26:31 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-09c 2X.032	
	05-223-04c 2X	14:34:14 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.033	
	05-223-04d 2X	14:39:43 Tue 24-	MSampie	C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04d 2X.034	
	QC Std 6	14:45:12 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.035	
	QC Std 7	14:50:42 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.036	
	QC Std 8	14:56:13 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.037	
	05-227-01c 2X	15:01:57 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-227-01c 2X.038	
	05-228-01c 2X	15:07:27 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-228-01c 2X.039	
	05-229-01c 2X	15:12:58 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-229-01c 2X.040	
	05-230-01b 2X	15:18:28 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-230-01b 2X.041	
	05-230-02b 2X	15:23:57 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-230-02b 2X.042	
	05-227-01d 2X D1	15:29:27 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-227-01d 2X D1.043	
	05-228-01d 2X	15:34:56 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-228-01d 2X.044	
	05-229-01d 2X	15:40:26 Tue 24-	MSample	C:\NexIONData_kmckinney\DataSet\X220524B\05-229-01d 2X.045	
	QC Std 6	15:45:55 Tue 24-	MQC Std #6	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.046	
	QC Std 7	15:51:25 Tue 24-	MQC Std #7	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.047	
	QC Std 8	15:56:56 Tue 24-	MQC Std #8	C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.048	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, May 24, 2022 11:41:13

Report Date/Time: Tuesday, May 24, 2022 16:04:42

Method File: C:\NexIONData_krnckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_krnckinney\DataSet\X220524B\Blank.001

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	438379.0	2.6				ug/L		Standard
	Ge	72	247731.5	3.8				ug/L		Standard
	Y	89	510500.8	3.6				ug/L		Standard
[	Rh	103	411319.5	2.2				ug/L		Standard
[>	In	115	360358.5	1.9				ug/L		Standard
[>	Tb	159	467949.6	0.8				ug/L		Standard
|	Ho	165	471089.4	0.3				ug/L		Standard
|	Pb	208	422.0	9.9				ug/L		Standard
|	Bi	209	266450.6	0.4				ug/L		Standard
|	Th	232	327492.4	0.8				ug/L		Standard
[	Cr-1	52	98.3	9.7				ug/L		KED
|	Cr-1	53	9.3	27.0				ug/L		KED
[>	Ge-1	72	9744.3	1.3				ug/L		KED
|	As-2	75	1.0	0.0				ug/L		KED
|	Y-1	89	16475.5	1.2				ug/L		KED
|	Rh-1	103	96667.0	1.0				ug/L		KED
[	Cd-1	111	2.7	21.7				ug/L		KED
|	Cd-1	114	3.4	34.1				ug/L		KED
[>	In-1	115	10677.5	1.1				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Sample ID: Blank

Report Date/Time: Tuesday, May 24, 2022 16:04:42

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, May 24, 2022 11:45:54
 Report Date/Time: Tuesday, May 24, 2022 16:04:44
 Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 1.002

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	484320.9	1.6				ug/L	438379	Standard
	Ge	72	270349.8	2.5				ug/L	247731	Standard
	Y	89	571767.0	0.8				ug/L	510501	Standard
[	Rh	103	460681.7	1.9				ug/L	411319	Standard
[>	In	115	401589.4	0.8				ug/L	360358	Standard
[>	Tb	159	520203.5	1.1				ug/L	467950	Standard
|	Ho	165	522246.6	0.7				ug/L	471089	Standard
|	Pb	208	7854.2	0.5	0.2000	0.003	1.7	ug/L	422	Standard
|	Bi	209	292048.1	0.6				ug/L	266451	Standard
[	Th	232	367392.4	0.7				ug/L	327492	Standard
[	Cr-1	52	301.0	5.2				ug/L	98	KED
|	Cr-1	53	38.0	5.3				ug/L	9	KED
>	Ge-1	72	10593.3	0.2				ug/L	9744	KED
[	As-2	75	15.3	10.0	0.2000	0.022	10.8	ug/L	1	KED
|	Y-1	89	18377.8	1.5				ug/L	16475	KED
|	Rh-1	103	107682.3	0.6				ug/L	96667	KED
[	Cd-1	111	54.0	23.1	0.2000	0.050	25.1	ug/L	3	KED
|	Cd-1	114	117.3	4.5	0.2000	0.008	4.2	ug/L	3	KED
[>	In-1	115	11566.2	0.7				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, May 24, 2022 11:50:35

Report Date/Time: Tuesday, May 24, 2022 16:04:46

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 2.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	482395.9	2.0				ug/L	438379	Standard
	Ge	72	269188.6	2.2				ug/L	247731	Standard
	Y	89	564646.9	0.6				ug/L	510501	Standard
[	Rh	103	453435.8	0.9				ug/L	411319	Standard
[>	In	115	394561.0	0.2				ug/L	360358	Standard
[>	Tb	159	510830.1	0.2				ug/L	467950	Standard
|	Ho	165	519493.4	1.2				ug/L	471089	Standard
|	Pb	208	18755.2	0.8	0.5006	0.003	0.7	ug/L	422	Standard
|	Bi	209	288761.0	1.0				ug/L	266451	Standard
|	Th	232	361630.8	0.8				ug/L	327492	Standard
[	Cr-1	52	584.7	5.6	0.5000	0.033	6.6	ug/L	98	KED
|	Cr-1	53	73.7	12.6	0.5000	0.072	14.5	ug/L	9	KED
[>	Ge-1	72	10702.3	0.3				ug/L	9744	KED
|	As-2	75	29.7	17.3	0.4827	0.088	18.3	ug/L	1	KED
|	Y-1	89	18175.6	1.6				ug/L	16475	KED
|	Rh-1	103	106938.1	1.2				ug/L	96667	KED
[	Cd-1	111	114.0	10.3	0.4914	0.049	9.9	ug/L	3	KED
|	Cd-1	114	278.3	2.4	0.4992	0.019	3.7	ug/L	3	KED
[>	In-1	115	11323.3	1.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Sample ID: Standard 2

Report Date/Time: Tuesday, May 24, 2022 16:04:46

Page 1

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, May 24, 2022 11:55:16

Report Date/Time: Tuesday, May 24, 2022 16:04:48

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 3.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	438823.2	1.8				ug/L	438379	Standard
	Ge	72	244727.9	1.9				ug/L	247731	Standard
	Y	89	514469.5	1.0				ug/L	510501	Standard
[	Rh	103	412501.1	1.9				ug/L	411319	Standard
[>	In	115	360156.1	1.2				ug/L	360358	Standard
[>	Tb	159	462538.8	0.5				ug/L	467950	Standard
|	Ho	165	472371.1	0.3				ug/L	471089	Standard
|	Pb	208	73504.8	0.9	2.0129	0.009	0.5	ug/L	422	Standard
|	Bi	209	264286.6	0.5				ug/L	266451	Standard
|	Th	232	329774.0	0.8				ug/L	327492	Standard
[	Cr-1	52	2067.1	0.3	2.0122	0.038	1.9	ug/L	98	KED
|	Cr-1	53	248.0	5.6	2.0018	0.106	5.3	ug/L	9	KED
[>	Ge-1	72	9911.1	2.0				ug/L	9744	KED
|	As-2	75	108.7	7.7	1.9974	0.129	6.4	ug/L	1	KED
|	Y-1	89	16939.4	1.8				ug/L	16475	KED
|	Rh-1	103	97671.8	0.9				ug/L	96667	KED
[	Cd-1	111	482.0	1.6	2.0160	0.047	2.3	ug/L	3	KED
|	Cd-1	114	1133.6	2.2	2.0121	0.052	2.6	ug/L	3	KED
[>	In-1	115	10589.1	1.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		
[>	Tb	159		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		

Sample ID: Standard 3

Report Date/Time: Tuesday, May 24, 2022 16:04:48

Page 1

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, May 24, 2022 11:59:56

Report Date/Time: Tuesday, May 24, 2022 16:04:50

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 4.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	389871.0	0.9				ug/L	438379	Standard
	Ge	72	220119.6	3.1				ug/L	247731	Standard
	Y	89	458033.8	1.1				ug/L	510501	Standard
[	Rh	103	369817.1	1.6				ug/L	411319	Standard
>	In	115	326090.1	1.4				ug/L	360358	Standard
>	Tb	159	422704.8	1.1				ug/L	467950	Standard
	Ho	165	426094.1	0.2				ug/L	471089	Standard
	Pb	208	157726.0	0.1	4.9605	0.050	1.0	ug/L	422	Standard
	Bi	209	236991.0	0.5				ug/L	266451	Standard
	Th	232	294919.5	0.6				ug/L	327492	Standard
[	Cr-1	52	4407.0	1.1	4.9931	0.048	1.0	ug/L	98	KED
	Cr-1	53	524.0	3.7	4.9782	0.186	3.7	ug/L	9	KED
>	Ge-1	72	8836.1	0.1				ug/L	9744	KED
[	As-2	75	253.3	7.0	5.0360	0.359	7.1	ug/L	1	KED
	Y-1	89	14887.8	2.9				ug/L	16475	KED
	Rh-1	103	87965.0	0.4				ug/L	96667	KED
[	Cd-1	111	957.4	2.9	4.9110	0.087	1.8	ug/L	3	KED
	Cd-1	114	2370.3	2.2	4.9486	0.039	0.8	ug/L	3	KED
>	In-1	115	9556.4	1.5				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		

Sample ID: Standard 4

Report Date/Time: Tuesday, May 24, 2022 16:04:50

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Tuesday, May 24, 2022 12:04:36
 Report Date/Time: Tuesday, May 24, 2022 16:04:52
 Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 5.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	399474.3	2.2				ug/L	438379	Standard
	Ge	72	226137.3	2.1				ug/L	247731	Standard
	Y	89	475958.2	1.2				ug/L	510501	Standard
[	Rh	103	381490.2	0.9				ug/L	411319	Standard
>	In	115	331282.7	1.2				ug/L	360358	Standard
>	Tb	159	426884.2	0.4				ug/L	467950	Standard
	Ho	165	432513.5	0.4				ug/L	471089	Standard
	Pb	208	592504.8	0.2	19.8887	0.111	0.6	ug/L	422	Standard
	Bi	209	241406.3	0.4				ug/L	266451	Standard
	Th	232	299283.5	0.5				ug/L	327492	Standard
[	Cr-1	52	16204.9	0.6	19.8583	0.324	1.6	ug/L	98	KED
	Cr-1	53	2035.8	3.1	19.9296	0.503	2.5	ug/L	9	KED
>	Ge-1	72	9096.2	1.9				ug/L	9744	KED
[	As-2	75	1030.4	1.7	19.9966	0.120	0.6	ug/L	1	KED
	Y-1	89	15542.1	0.7				ug/L	16475	KED
	Rh-1	103	89647.1	0.6				ug/L	96667	KED
[	Cd-1	111	3713.5	1.2	19.9256	0.289	1.5	ug/L	3	KED
	Cd-1	114	9066.9	1.1	19.9153	0.264	1.3	ug/L	3	KED
>	In-1	115	9618.9	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Tuesday, May 24, 2022 12:09:16

Report Date/Time: Tuesday, May 24, 2022 16:04:54

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 6.007

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc 45	434290.3	2.1				ug/L	438379	Standard
	Ge 72	247412.2	2.9				ug/L	247731	Standard
	Y 89	522572.6	1.3				ug/L	510501	Standard
	Rh 103	417357.8	1.9				ug/L	411319	Standard
>	In 115	364102.6	0.7				ug/L	360358	Standard
>	Tb 159	465173.9	1.5				ug/L	467950	Standard
	Ho 165	473488.7	0.6				ug/L	471089	Standard
	Pb 208	1341764.8	0.6	40.2780	0.394	1.0	ug/L	422	Standard
	Bi 209	265178.7	1.0				ug/L	266451	Standard
	Th 232	327685.4	0.6				ug/L	327492	Standard
	Cr-1 52	36573.1	0.3	39.9847	0.220	0.5	ug/L	98	KED
	Cr-1 53	4648.4	1.1	40.1087	0.308	0.8	ug/L	9	KED
>	Ge-1 72	10237.7	0.4				ug/L	9744	KED
	As-2 75	2357.5	1.3	40.1398	0.593	1.5	ug/L	1	KED
	Y-1 89	17020.1	1.5				ug/L	16475	KED
	Rh-1 103	99301.6	0.7				ug/L	96667	KED
	Cd-1 111	8496.5	0.7	40.3351	0.421	1.0	ug/L	3	KED
	Cd-1 114	20964.3	0.3	40.4159	0.072	0.2	ug/L	3	KED
>	In-1 115	10536.0	0.5				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
	Sc 45		
	Ge 72		
	Y 89		
	Rh 103		
>	In 115		
>	Tb 159		
	Ho 165		
	Pb 208		
	Bi 209		
	Th 232		
	Cr-1 52		
	Cr-1 53		
>	Ge-1 72		
	As-2 75		
	Y-1 89		
	Rh-1 103		
	Cd-1 111		
	Cd-1 114		
>	In-1 115		

Sample ID: Standard 6

Report Date/Time: Tuesday, May 24, 2022 16:04:54

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Tuesday, May 24, 2022 12:13:57

Report Date/Time: Tuesday, May 24, 2022 16:04:56

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\Standard 7.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	485629.5	2.2				ug/L	438379	Standard
	Ge	72	274924.3	2.9				ug/L	247731	Standard
	Y	89	577965.6	1.4				ug/L	510501	Standard
[	Rh	103	462174.5	2.7				ug/L	411319	Standard
>	In	115	399306.9	0.3				ug/L	360358	Standard
>	Tb	159	519573.3	0.7				ug/L	467950	Standard
	Ho	165	526444.6	0.2				ug/L	471089	Standard
	Pb	208	3476283.3	0.8	98.8286	0.298	0.3	ug/L	422	Standard
	Bi	209	289794.3	1.6				ug/L	266451	Standard
	Th	232	364112.9	1.9				ug/L	327492	Standard
[	Cr-1	52	96097.1	0.1	99.5607	1.229	1.2	ug/L	98	KED
[	Cr-1	53	11955.3	0.3	99.2378	1.418	1.4	ug/L	9	KED
>	Ge-1	72	11056.6	1.3				ug/L	9744	KED
[	As-2	75	5925.9	1.4	98.8303	0.462	0.5	ug/L	1	KED
	Y-1	89	19061.7	0.2				ug/L	16475	KED
	Rh-1	103	109141.1	2.0				ug/L	96667	KED
[	Cd-1	111	21642.4	1.0	98.5302	0.593	0.6	ug/L	3	KED
[	Cd-1	114	53623.3	0.7	98.6390	0.277	0.3	ug/L	3	KED
>	In-1	115	11783.7	0.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		
>	Tb	159		
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
[	Cr-1	53		
>	Ge-1	72		
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
>	In-1	115		

Sample ID: Standard 7

Report Date/Time: Tuesday, May 24, 2022 16:04:56

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, May 24, 2022 12:19:27

Report Date/Time: Tuesday, May 24, 2022 16:04:59

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 1.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	455210.2	0.3				ug/L	438379	Standard
	Ge	72	257647.2	2.0				ug/L	247731	Standard
	Y	89	537042.2	1.6				ug/L	510501	Standard
[	Rh	103	427652.3	1.3				ug/L	411319	Standard
>	In	115	373117.3	0.7				ug/L	360358	Standard
>	Tb	159	482068.8	0.5				ug/L	467950	Standard
|	Ho	165	488721.5	0.3				ug/L	471089	Standard
|	Pb	208	1702461.9	0.3	52.1597	0.185	0.4	ug/L	422	Standard
|	Bi	209	271726.2	0.4				ug/L	266451	Standard
|	Th	232	340035.4	0.7				ug/L	327492	Standard
[	Cr-1	52	46978.8	0.3	52.2668	1.048	2.0	ug/L	98	KED
|	Cr-1	53	5835.5	1.4	52.0322	1.470	2.8	ug/L	9	KED
>	Ge-1	72	10286.7	1.8				ug/L	9744	KED
|	As-2	75	3019.0	1.1	54.1279	1.537	2.8	ug/L	1	KED
|	Y-1	89	17755.0	0.6				ug/L	16475	KED
|	Rh-1	103	102799.5	0.2				ug/L	96667	KED
[	Cd-1	111	10864.8	0.8	52.6142	0.492	0.9	ug/L	3	KED
|	Cd-1	114	26617.9	1.5	52.0901	1.257	2.4	ug/L	3	KED
>	In-1	115	11077.3	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		103.541
>	Tb	159		103.017
|	Ho	165		
|	Pb	208	104.319	
|	Bi	209		
|	Th	232		
|	Cr-1	52	104.534	
|	Cr-1	53	104.064	
>	Ge-1	72		105.566
|	As-2	75	108.256	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	105.228	
|	Cd-1	114	104.180	
>	In-1	115		103.744

Sample ID: QC Std 1

Report Date/Time: Tuesday, May 24, 2022 16:04:59

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, May 24, 2022 12:24:58

Report Date/Time: Tuesday, May 24, 2022 16:05:01

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 2.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	424107.8	3.2				ug/L	438379	Standard
	Ge	72	241942.7	3.3				ug/L	247731	Standard
	Y	89	502198.4	0.4				ug/L	510501	Standard
[	Rh	103	402819.9	1.3				ug/L	411319	Standard
>	In	115	355580.5	0.7				ug/L	360358	Standard
>	Tb	159	456829.3	0.8				ug/L	467950	Standard
|	Ho	165	462286.2	0.5				ug/L	471089	Standard
|	Pb	208	891.3	10.6	0.0155	0.003	18.5	ug/L	422	Standard
|	Bi	209	260844.7	1.0				ug/L	266451	Standard
|	Th	232	317715.2	0.5				ug/L	327492	Standard
[	Cr-1	52	86.7	9.8	-0.0144	0.012	84.0	ug/L	98	KED
|	Cr-1	53	14.3	56.0	0.0464	0.077	166.1	ug/L	9	KED
>	Ge-1	72	9828.7	2.6				ug/L	9744	KED
|	As-2	75	2.3	65.5	0.0251	0.029	115.5	ug/L	1	KED
|	Y-1	89	16887.0	1.4				ug/L	16475	KED
|	Rh-1	103	97406.0	0.6				ug/L	96667	KED
[	Cd-1	111	3.7	56.8	0.0053	0.011	205.9	ug/L	3	KED
|	Cd-1	114	10.3	21.0	0.0143	0.005	33.1	ug/L	3	KED
>	In-1	115	10578.7	1.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		98.674
>	Tb	159		97.624
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		100.866
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		99.074

Sample ID: QC Std 2

Report Date/Time: Tuesday, May 24, 2022 16:05:01

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 12:29:38

Report Date/Time: Tuesday, May 24, 2022 16:05:03

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	439637.6	2.3				ug/L	438379	Standard
	Ge	72	247588.6	3.3				ug/L	247731	Standard
	Y	89	510856.4	1.1				ug/L	510501	Standard
[	Rh	103	410267.7	0.8				ug/L	411319	Standard
>	In	115	359505.0	0.7				ug/L	360358	Standard
>	Tb	159	464069.9	0.4				ug/L	467950	Standard
	Ho	165	472902.1	0.7				ug/L	471089	Standard
	Pb	208	1336800.6	0.2	42.5426	0.105	0.2	ug/L	422	Standard
	Bi	209	262953.1	0.7				ug/L	266451	Standard
	Th	232	329870.0	0.1				ug/L	327492	Standard
[	Cr-1	52	37085.7	0.4	42.2926	0.297	0.7	ug/L	98	KED
	Cr-1	53	4628.7	0.9	42.3074	0.432	1.0	ug/L	9	KED
>	Ge-1	72	10028.5	1.1				ug/L	9744	KED
[	As-2	75	2369.5	1.7	43.5611	0.738	1.7	ug/L	1	KED
	Y-1	89	17263.4	0.6				ug/L	16475	KED
	Rh-1	103	99256.6	0.5				ug/L	96667	KED
[	Cd-1	111	8552.9	1.1	42.4143	0.330	0.8	ug/L	3	KED
	Cd-1	114	21135.9	1.2	42.3554	0.681	1.6	ug/L	3	KED
>	In-1	115	10816.1	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		99.763
>	Tb	159		99.171
	Ho	165		
	Pb	208	106.356	
	Bi	209		
	Th	232		
[	Cr-1	52	105.732	
	Cr-1	53	105.768	
>	Ge-1	72		102.917
[	As-2	75	108.903	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	106.036	
	Cd-1	114	105.889	
>	In-1	115		101.298

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:05:03

Page 1

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 12:35:07

Report Date/Time: Tuesday, May 24, 2022 16:05:06

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	399919.0	1.6				ug/L	438379	Standard
	Ge	72	225063.6	2.3				ug/L	247731	Standard
	Y	89	459677.2	0.2				ug/L	510501	Standard
[	Rh	103	371902.8	0.6				ug/L	411319	Standard
>	In	115	326829.0	1.1				ug/L	360358	Standard
>	Tb	159	425376.7	0.6				ug/L	467950	Standard
	Ho	165	430925.1	0.8				ug/L	471089	Standard
	Pb	208	600674.3	0.1	20.8484	0.119	0.6	ug/L	422	Standard
	Bi	209	241221.5	0.3				ug/L	266451	Standard
	Th	232	299249.9	0.7				ug/L	327492	Standard
[	Cr-1	52	16733.1	1.7	20.2985	0.363	1.8	ug/L	98	KED
	Cr-1	53	2110.5	0.7	20.5351	0.182	0.9	ug/L	9	KED
>	Ge-1	72	9399.8	0.9				ug/L	9744	KED
	As-2	75	1081.7	1.5	21.2068	0.378	1.8	ug/L	1	KED
	Y-1	89	15748.0	2.1				ug/L	16475	KED
	Rh-1	103	89254.0	0.4				ug/L	96667	KED
[	Cd-1	111	3927.9	2.8	21.2229	0.975	4.6	ug/L	3	KED
	Cd-1	114	9498.0	1.2	20.7329	0.442	2.1	ug/L	3	KED
>	In-1	115	9929.6	1.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		90.696
>	Tb	159		90.902
	Ho	165		
	Pb	208	104.242	
	Bi	209		
	Th	232		
[	Cr-1	52	101.493	
	Cr-1	53	102.675	
>	Ge-1	72		96.464
	As-2	75	106.034	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	106.114	
	Cd-1	114	103.664	
>	In-1	115		92.995

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:05:06

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 12:40:38

Report Date/Time: Tuesday, May 24, 2022 16:05:08

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	425361.0	2.4				ug/L	438379	Standard
	Ge	72	241974.7	2.2				ug/L	247731	Standard
	Y	89	501278.0	1.7				ug/L	510501	Standard
[	Rh	103	405298.6	1.3				ug/L	411319	Standard
[>	In	115	353768.5	0.9				ug/L	360358	Standard
[>	Tb	159	456146.1	0.5				ug/L	467950	Standard
|	Ho	165	461610.4	0.4				ug/L	471089	Standard
|	Pb	208	678.7	3.5	0.0087	0.001	8.8	ug/L	422	Standard
|	Bi	209	258389.2	0.7				ug/L	266451	Standard
|	Th	232	315201.1	0.4				ug/L	327492	Standard
[	Cr-1	52	87.0	8.0	-0.0180	0.008	43.4	ug/L	98	KED
|	Cr-1	53	11.0	24.1	0.0110	0.024	216.5	ug/L	9	KED
>	Ge-1	72	10208.0	0.1				ug/L	9744	KED
[	As-2	75	2.3	65.5	0.0232	0.028	118.8	ug/L	1	KED
|	Y-1	89	17243.4	1.2				ug/L	16475	KED
|	Rh-1	103	99028.4	0.1				ug/L	96667	KED
[	Cd-1	111	3.3	75.5	0.0029	0.012	419.5	ug/L	3	KED
|	Cd-1	114	8.5	23.3	0.0099	0.004	38.9	ug/L	3	KED
[>	In-1	115	10935.0	0.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		98.171
[>	Tb	159		97.478
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		104.758
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		102.411

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:05:08

Quantitative Analysis - Summary Report

Sample ID: MB0524WM1 2X

Sample Date/Time: Tuesday, May 24, 2022 12:45:17

Report Date/Time: Tuesday, May 24, 2022 16:05:11

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\MB0524WM1 2X.014

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc 45	436261.3	1.7				ug/L	438379	Standard
	Ge 72	244222.5	1.5				ug/L	247731	Standard
	Y 89	509413.8	1.9				ug/L	510501	Standard
[	Rh 103	410407.7	3.4				ug/L	411319	Standard
>	In 115	358465.5	0.9				ug/L	360358	Standard
>	Tb 159	459978.3	0.3				ug/L	467950	Standard
|	Ho 165	465372.1	0.8				ug/L	471089	Standard
|	Pb 208	385.7	9.1	-0.0009	0.001	123.7	ug/L	422	Standard
|	Bi 209	264064.0	1.0				ug/L	266451	Standard
|	Th 232	323444.4	0.8				ug/L	327492	Standard
[	Cr-1 52	133.0	13.7	0.0333	0.021	63.0	ug/L	98	KED
|	Cr-1 53	15.3	41.9	0.0496	0.058	116.1	ug/L	9	KED
>	Ge-1 72	10239.0	1.4				ug/L	9744	KED
[	As-2 75	4.0	25.0	0.0532	0.019	35.4	ug/L	1	KED
|	Y-1 89	17292.8	1.1				ug/L	16475	KED
|	Rh-1 103	100179.4	0.8				ug/L	96667	KED
[	Cd-1 111	2.3	24.7	-0.0021	0.003	141.5	ug/L	3	KED
|	Cd-1 114	3.4	107.0	-0.0002	0.007	3271.8	ug/L	3	KED
>	In-1 115	11048.9	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
	Sc 45		
	Ge 72		
	Y 89		
[	Rh 103		
>	In 115		99.475
>	Tb 159		98.297
|	Ho 165		
|	Pb 208		
|	Bi 209		
|	Th 232		
[	Cr-1 52		
|	Cr-1 53		
>	Ge-1 72		105.077
[	As-2 75		
|	Y-1 89		
|	Rh-1 103		
[	Cd-1 111		
|	Cd-1 114		
>	In-1 115		103.478

Sample ID: MB0524WM1 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:11

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Quantitative Analysis - Summary Report

Sample ID: SB0524WM1 2X

Sample Date/Time: Tuesday, May 24, 2022 12:50:47

Report Date/Time: Tuesday, May 24, 2022 16:05:13

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\SB0524WM1 2X.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	438313.4	2.1				ug/L	438379	Standard
	Ge	72	246056.6	2.2				ug/L	247731	Standard
	Y	89	507700.5	0.5				ug/L	510501	Standard
[	Rh	103	405113.3	0.6				ug/L	411319	Standard
[>	In	115	357945.0	0.6				ug/L	360358	Standard
[>	Tb	159	462448.5	0.3				ug/L	467950	Standard
[	Ho	165	466081.5	0.3				ug/L	471089	Standard
[	Pb	208	1473022.1	0.5	47.0439	0.356	0.8	ug/L	422	Standard
[	Bi	209	262691.3	0.6				ug/L	266451	Standard
[	Th	232	325965.3	0.5				ug/L	327492	Standard
[	Cr-1	52	41360.8	0.8	46.4334	0.485	1.0	ug/L	98	KED
[	Cr-1	53	5143.6	2.5	46.2753	1.000	2.2	ug/L	9	KED
[>	Ge-1	72	10189.3	0.3				ug/L	9744	KED
[	As-2	75	2709.6	3.5	49.0247	1.634	3.3	ug/L	1	KED
[	Y-1	89	17504.1	2.0				ug/L	16475	KED
[	Rh-1	103	100459.3	1.0				ug/L	96667	KED
[	Cd-1	111	9819.0	0.9	48.0177	0.588	1.2	ug/L	3	KED
[	Cd-1	114	24006.5	0.2	47.4414	0.892	1.9	ug/L	3	KED
[>	In-1	115	10970.6	2.1				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		99.330
[>	Tb	159		98.824
[	Ho	165		
[	Pb	208		
[	Bi	209		
[	Th	232		
[	Cr-1	52		
[	Cr-1	53		
[>	Ge-1	72		104.567
[	As-2	75		
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		102.745

Sample ID: SB0524WM1 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:13

Quantitative Analysis - Summary Report

Sample ID: 05-223-01c 2X

Sample Date/Time: Tuesday, May 24, 2022 12:56:29

Report Date/Time: Tuesday, May 24, 2022 16:05:15

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01c 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	450093.8	1.5				ug/L	438379	Standard
	Ge	72	224409.2	2.4				ug/L	247731	Standard
	Y	89	474693.8	1.8				ug/L	510501	Standard
[	Rh	103	359427.9	1.3				ug/L	411319	Standard
>	In	115	316208.3	0.7				ug/L	360358	Standard
>	Tb	159	425257.1	0.4				ug/L	467950	Standard
	Ho	165	429723.9	0.6				ug/L	471089	Standard
	Pb	208	2256.1	5.8	0.0650	0.004	6.5	ug/L	422	Standard
	Bi	209	221997.0	0.6				ug/L	266451	Standard
	Th	232	295837.8	0.1				ug/L	327492	Standard
[	Cr-1	52	825.0	0.9	0.9208	0.005	0.6	ug/L	98	KED
	Cr-1	53	105.3	7.1	0.9719	0.073	7.5	ug/L	9	KED
>	Ge-1	72	9127.6	0.9				ug/L	9744	KED
[	As-2	75	118.7	0.5	2.3790	0.011	0.5	ug/L	1	KED
	Y-1	89	15851.5	0.7				ug/L	16475	KED
	Rh-1	103	86205.0	1.2				ug/L	96667	KED
[	Cd-1	111	7.0	37.8	0.0249	0.015	59.1	ug/L	3	KED
	Cd-1	114	22.0	41.6	0.0417	0.020	48.7	ug/L	3	KED
>	In-1	115	9830.4	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
	Rh	103		
[	In	115		87.748
>	Tb	159		90.877
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
[	Ge-1	72		93.671
>	As-2	75		
	Y-1	89		
	Rh-1	103		
	Cd-1	111		
	Cd-1	114		
[In-1	115		92.066

Sample ID: 05-223-01c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:15

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Quantitative Analysis - Summary Report

Sample ID: 05-223-01cD 2X

Sample Date/Time: Tuesday, May 24, 2022 13:01:58

Report Date/Time: Tuesday, May 24, 2022 16:05:18

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cD 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	487166.5	0.9				ug/L	438379	Standard
	Ge	72	242718.2	3.1				ug/L	247731	Standard
	Y	89	511219.5	0.9				ug/L	510501	Standard
[	Rh	103	382616.0	1.6				ug/L	411319	Standard
>	In	115	343613.6	0.9				ug/L	360358	Standard
>	Tb	159	457950.7	0.2				ug/L	467950	Standard
|	Ho	165	464437.3	0.6				ug/L	471089	Standard
|	Pb	208	1629.4	2.4	0.0392	0.001	3.4	ug/L	422	Standard
|	Bi	209	241451.7	0.4				ug/L	266451	Standard
|	Th	232	321593.2	0.1				ug/L	327492	Standard
[	Cr-1	52	860.4	4.5	0.8664	0.033	3.8	ug/L	98	KED
|	Cr-1	53	117.7	7.1	0.9887	0.085	8.6	ug/L	9	KED
>	Ge-1	72	10043.2	1.8				ug/L	9744	KED
|	As-2	75	125.0	9.4	2.2782	0.236	10.4	ug/L	1	KED
|	Y-1	89	17481.0	1.2				ug/L	16475	KED
|	Rh-1	103	93977.4	0.3				ug/L	96667	KED
[	Cd-1	111	3.0	33.3	0.0016	0.005	304.7	ug/L	3	KED
|	Cd-1	114	4.5	42.0	0.0023	0.004	167.4	ug/L	3	KED
>	In-1	115	10701.0	0.6				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		95.353
>	Tb	159		97.863
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		103.067
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		100.220

Sample ID: 05-223-01cD 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:18

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Quantitative Analysis - Summary Report

Sample ID: 05-223-01cL 10X

Sample Date/Time: Tuesday, May 24, 2022 13:07:27

Report Date/Time: Tuesday, May 24, 2022 16:05:20

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cL 10X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	456657.4	2.6				ug/L	438379	Standard
	Ge	72	254574.4	1.8				ug/L	247731	Standard
	Y	89	518438.1	1.9				ug/L	510501	Standard
[	Rh	103	405794.2	2.4				ug/L	411319	Standard
>	In	115	360335.7	1.2				ug/L	360358	Standard
>	Tb	159	470064.2	0.5				ug/L	467950	Standard
|	Ho	165	476472.7	0.5				ug/L	471089	Standard
|	Pb	208	570.0	3.0	0.0046	0.001	12.0	ug/L	422	Standard
|	Bi	209	259912.8	0.5				ug/L	266451	Standard
|	Th	232	327864.3	0.3				ug/L	327492	Standard
[	Cr-1	52	254.7	2.8	0.1652	0.010	6.2	ug/L	98	KED
|	Cr-1	53	24.7	39.0	0.1294	0.083	63.9	ug/L	9	KED
>	Ge-1	72	10396.8	0.9				ug/L	9744	KED
|	As-2	75	26.7	15.6	0.4546	0.077	17.0	ug/L	1	KED
|	Y-1	89	17868.2	2.7				ug/L	16475	KED
|	Rh-1	103	100149.5	0.7				ug/L	96667	KED
[	Cd-1	111	4.0	43.3	0.0055	0.008	148.7	ug/L	3	KED
|	Cd-1	114	5.1	32.3	0.0029	0.003	104.3	ug/L	3	KED
>	In-1	115	11367.5	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		99.994
>	Tb	159		100.452
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		106.696
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
>	In-1	115		106.461

Sample ID: 05-223-01cL 10X

Report Date/Time: Tuesday, May 24, 2022 16:05:20

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cMS 2X

Sample Date/Time: Tuesday, May 24, 2022 13:12:55

Report Date/Time: Tuesday, May 24, 2022 16:05:22

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMS 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	482568.4	1.5				ug/L	438379	Standard
	Ge	72	244101.7	1.9				ug/L	247731	Standard
	Y	89	509803.0	1.7				ug/L	510501	Standard
[	Rh	103	383967.6	1.3				ug/L	411319	Standard
>	In	115	345697.9	1.0				ug/L	360358	Standard
>	Tb	159	459075.9	0.8				ug/L	467950	Standard
	Ho	165	462730.8	0.1				ug/L	471089	Standard
	Pb	208	1415315.4	0.5	45.5351	0.605	1.3	ug/L	422	Standard
	Bi	209	240287.3	0.5				ug/L	266451	Standard
	Th	232	320517.8	0.6				ug/L	327492	Standard
[	Cr-1	52	42308.6	1.7	48.0590	0.222	0.5	ug/L	98	KED
	Cr-1	53	5260.3	0.7	47.8980	1.063	2.2	ug/L	9	KED
>	Ge-1	72	10071.2	1.9				ug/L	9744	KED
	As-2	75	2870.0	1.7	52.5576	1.667	3.2	ug/L	1	KED
	Y-1	89	17501.4	1.5				ug/L	16475	KED
	Rh-1	103	94543.8	0.4				ug/L	96667	KED
[	Cd-1	111	9731.3	0.8	48.4759	0.079	0.2	ug/L	3	KED
	Cd-1	114	24082.2	0.4	48.4759	0.432	0.9	ug/L	3	KED
>	In-1	115	10768.1	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		95.932
>	Tb	159		98.104
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		103.355
	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		100.848

Sample ID: 05-223-01cMS 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:22

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cMSD 2X

Sample Date/Time: Tuesday, May 24, 2022 13:20:22

Report Date/Time: Tuesday, May 24, 2022 16:05:25

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cMSD 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	493210.7	1.7				ug/L	438379	Standard
	Ge	72	249889.6	4.0				ug/L	247731	Standard
	Y	89	521155.1	1.9				ug/L	510501	Standard
[	Rh	103	391238.0	1.4				ug/L	411319	Standard
>	In	115	346576.3	1.5				ug/L	360358	Standard
>	Tb	159	462973.5	0.2				ug/L	467950	Standard
	Ho	165	468043.7	0.3				ug/L	471089	Standard
	Pb	208	1405500.5	0.2	44.8353	0.055	0.1	ug/L	422	Standard
	Bi	209	240958.3	1.0				ug/L	266451	Standard
	Th	232	318895.6	1.0				ug/L	327492	Standard
[	Cr-1	52	42119.0	0.9	47.6553	0.376	0.8	ug/L	98	KED
	Cr-1	53	5260.6	1.9	47.7057	1.170	2.5	ug/L	9	KED
>	Ge-1	72	10110.6	0.6				ug/L	9744	KED
[	As-2	75	2940.3	2.2	53.6231	1.488	2.8	ug/L	1	KED
	Y-1	89	17843.5	0.8				ug/L	16475	KED
	Rh-1	103	95087.4	1.2				ug/L	96667	KED
[	Cd-1	111	9902.8	1.2	48.1018	0.403	0.8	ug/L	3	KED
	Cd-1	114	24284.8	0.9	47.6646	0.145	0.3	ug/L	3	KED
>	In-1	115	11042.9	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		96.175
>	Tb	159		98.937
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		103.759
	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		103.422

Sample ID: 05-223-01cMSD 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:25

Quantitative Analysis - Summary Report

Sample ID: 05-223-01cPS 2X

Sample Date/Time: Tuesday, May 24, 2022 13:25:54

Report Date/Time: Tuesday, May 24, 2022 16:05:27

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-01cPS 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	494673.9	2.3				ug/L	438379	Standard
	Ge	72	246069.3	1.9				ug/L	247731	Standard
	Y	89	515395.1	1.1				ug/L	510501	Standard
[	Rh	103	387281.2	0.7				ug/L	411319	Standard
>	In	115	344014.2	0.9				ug/L	360358	Standard
>	Tb	159	458771.2	0.6				ug/L	467950	Standard
	Ho	165	463005.8	0.4				ug/L	471089	Standard
	Pb	208	1155551.5	0.1	37.1980	0.179	0.5	ug/L	422	Standard
	Bi	209	238812.9	0.2				ug/L	266451	Standard
	Th	232	317707.1	0.8				ug/L	327492	Standard
[	Cr-1	52	34624.2	1.2	39.3211	0.611	1.6	ug/L	98	KED
	Cr-1	53	4283.3	0.6	38.9877	0.370	0.9	ug/L	9	KED
>	Ge-1	72	10068.2	0.4				ug/L	9744	KED
[	As-2	75	2451.5	0.8	44.8910	0.509	1.1	ug/L	1	KED
	Y-1	89	17408.9	1.4				ug/L	16475	KED
	Rh-1	103	94755.9	0.4				ug/L	96667	KED
[	Cd-1	111	8064.3	2.1	39.5579	1.612	4.1	ug/L	3	KED
	Cd-1	114	19819.3	0.5	39.2746	0.848	2.2	ug/L	3	KED
>	In-1	115	10940.4	2.0				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		95.464
>	Tb	159		98.039
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		103.324
	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		102.461

Sample ID: 05-223-01cPS 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:27

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Quantitative Analysis - Summary Report

Sample ID: 05-223-02c 2X

Sample Date/Time: Tuesday, May 24, 2022 13:31:24

Report Date/Time: Tuesday, May 24, 2022 16:05:29

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-02c 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	477679.6	2.2				ug/L	438379	Standard
	Ge	72	245220.7	2.1				ug/L	247731	Standard
	Y	89	510677.2	2.3				ug/L	510501	Standard
[	Rh	103	383990.8	1.7				ug/L	411319	Standard
[>	In	115	339281.7	0.7				ug/L	360358	Standard
[>	Tb	159	451626.7	1.1				ug/L	467950	Standard
|	Ho	165	459133.6	0.7				ug/L	471089	Standard
|	Pb	208	4879.0	3.2	0.1463	0.003	2.3	ug/L	422	Standard
|	Bi	209	237909.0	0.5				ug/L	266451	Standard
|	Th	232	312691.8	0.5				ug/L	327492	Standard
[	Cr-1	52	1524.1	2.2	1.6147	0.032	2.0	ug/L	98	KED
|	Cr-1	53	182.3	14.7	1.5702	0.243	15.5	ug/L	9	KED
[>	Ge-1	72	10099.6	0.4				ug/L	9744	KED
[	As-2	75	46.7	6.5	0.8332	0.053	6.3	ug/L	1	KED
|	Y-1	89	17857.6	0.3				ug/L	16475	KED
|	Rh-1	103	94577.4	1.7				ug/L	96667	KED
[	Cd-1	111	11.3	22.2	0.0421	0.012	27.5	ug/L	3	KED
|	Cd-1	114	28.2	31.4	0.0490	0.017	34.3	ug/L	3	KED
[>	In-1	115	10937.9	1.3				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		94.151
[>	Tb	159		96.512
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		103.646
[	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		102.438

Sample ID: 05-223-02c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:29

Quantitative Analysis - Summary Report

Sample ID: 05-223-03d 2X

Sample Date/Time: Tuesday, May 24, 2022 13:36:53

Report Date/Time: Tuesday, May 24, 2022 16:05:31

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-03d 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	475135.4	2.0				ug/L	438379	Standard
	Ge	72	237566.4	2.3				ug/L	247731	Standard
	Y	89	493537.5	1.5				ug/L	510501	Standard
[	Rh	103	369860.9	1.7				ug/L	411319	Standard
[>	In	115	330352.3	1.5				ug/L	360358	Standard
[>	Tb	159	442898.7	0.7				ug/L	467950	Standard
|	Ho	165	450141.9	1.4				ug/L	471089	Standard
|	Pb	208	2720.4	0.9	0.0774	0.001	1.9	ug/L	422	Standard
|	Bi	209	229960.4	0.2				ug/L	266451	Standard
|	Th	232	311533.9	0.1				ug/L	327492	Standard
[	Cr-1	52	692.4	2.2	0.6988	0.005	0.7	ug/L	98	KED
|	Cr-1	53	95.7	2.6	0.8135	0.013	1.5	ug/L	9	KED
>	Ge-1	72	9746.7	1.7				ug/L	9744	KED
|	As-2	75	45.0	2.2	0.8326	0.012	1.4	ug/L	1	KED
|	Y-1	89	17085.9	1.4				ug/L	16475	KED
|	Rh-1	103	92296.9	0.7				ug/L	96667	KED
[	Cd-1	111	4.3	13.3	0.0085	0.003	36.7	ug/L	3	KED
|	Cd-1	114	7.1	52.3	0.0076	0.008	101.2	ug/L	3	KED
[>	In-1	115	10647.0	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		91.673
[>	Tb	159		94.647
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		100.024
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		99.714

Sample ID: 05-223-03d 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:31

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 13:42:24

Report Date/Time: Tuesday, May 24, 2022 16:05:33

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	444244.8	1.0				ug/L	438379	Standard
	Ge	72	255575.8	1.9				ug/L	247731	Standard
	Y	89	519008.5	1.7				ug/L	510501	Standard
[	Rh	103	412436.6	2.3				ug/L	411319	Standard
>	In	115	359168.1	0.3				ug/L	360358	Standard
>	Tb	159	466141.4	0.3				ug/L	467950	Standard
|	Ho	165	474120.4	0.5				ug/L	471089	Standard
|	Pb	208	1291926.8	0.4	40.9316	0.274	0.7	ug/L	422	Standard
|	Bi	209	262791.2	1.0				ug/L	266451	Standard
|	Th	232	325445.5	1.0				ug/L	327492	Standard
[	Cr-1	52	36698.1	0.3	39.4864	0.402	1.0	ug/L	98	KED
|	Cr-1	53	4568.4	2.0	39.4006	0.991	2.5	ug/L	9	KED
>	Ge-1	72	10627.3	1.3				ug/L	9744	KED
|	As-2	75	2391.2	0.7	41.4826	0.330	0.8	ug/L	1	KED
|	Y-1	89	18096.5	1.4				ug/L	16475	KED
|	Rh-1	103	103100.7	0.5				ug/L	96667	KED
[	Cd-1	111	8703.7	0.3	40.7090	0.446	1.1	ug/L	3	KED
|	Cd-1	114	21621.7	1.4	40.8632	0.598	1.5	ug/L	3	KED
>	In-1	115	11468.9	1.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		99.670
>	Tb	159		99.614
|	Ho	165		
|	Pb	208	102.329	
|	Bi	209		
|	Th	232		
[	Cr-1	52	98.716	
|	Cr-1	53	98.502	
>	Ge-1	72		109.061
|	As-2	75	103.706	
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111	101.772	
|	Cd-1	114	102.158	
>	In-1	115		107.411

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:05:33

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Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 13:47:55

Report Date/Time: Tuesday, May 24, 2022 16:05:36

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	413399.9	0.3				ug/L	438379	Standard
	Ge	72	233689.6	2.4				ug/L	247731	Standard
	Y	89	476843.2	1.5				ug/L	510501	Standard
[	Rh	103	378754.5	1.4				ug/L	411319	Standard
[>	In	115	331765.6	0.8				ug/L	360358	Standard
[>	Tb	159	428005.1	0.5				ug/L	467950	Standard
|	Ho	165	437028.1	0.1				ug/L	471089	Standard
|	Pb	208	603836.0	0.5	20.8291	0.119	0.6	ug/L	422	Standard
|	Bi	209	240334.8	0.2				ug/L	266451	Standard
|	Th	232	295855.3	0.8				ug/L	327492	Standard
[	Cr-1	52	17135.6	1.1	20.1352	0.417	2.1	ug/L	98	KED
|	Cr-1	53	2180.5	1.6	20.5495	0.249	1.2	ug/L	9	KED
[>	Ge-1	72	9704.6	1.3				ug/L	9744	KED
[	As-2	75	1131.4	8.0	21.4993	1.998	9.3	ug/L	1	KED
|	Y-1	89	16607.6	1.5				ug/L	16475	KED
|	Rh-1	103	95737.1	0.6				ug/L	96667	KED
[	Cd-1	111	4130.3	3.0	20.8086	0.453	2.2	ug/L	3	KED
|	Cd-1	114	9996.4	1.5	20.3575	0.412	2.0	ug/L	3	KED
[>	In-1	115	10641.9	0.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		92.065
[>	Tb	159		91.464
|	Ho	165		
|	Pb	208	104.146	
|	Bi	209		
|	Th	232		
|	Cr-1	52	100.676	
|	Cr-1	53	102.747	
[>	Ge-1	72		99.593
[	As-2	75	107.496	
|	Y-1	89		
|	Rh-1	103		
|	Cd-1	111	104.043	
|	Cd-1	114	101.787	
[>	In-1	115		99.666

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:05:36

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 13:53:26

Report Date/Time: Tuesday, May 24, 2022 16:05:38

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.026

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc 45	443454.0	1.5				ug/L	438379	Standard
	Ge 72	250138.0	2.4				ug/L	247731	Standard
	Y 89	505993.5	0.9				ug/L	510501	Standard
[	Rh 103	402542.0	1.0				ug/L	411319	Standard
>	In 115	352251.5	0.9				ug/L	360358	Standard
>	Tb 159	456312.9	0.4				ug/L	467950	Standard
	Ho 165	461224.5	0.8				ug/L	471089	Standard
	Pb 208	513.0	15.6	0.0033	0.003	80.8	ug/L	422	Standard
	Bi 209	256701.2	0.4				ug/L	266451	Standard
	Th 232	314588.8	0.5				ug/L	327492	Standard
[	Cr-1 52	105.3	12.9	-0.0005	0.016	3071.5	ug/L	98	KED
	Cr-1 53	10.7	27.1	0.0056	0.027	473.6	ug/L	9	KED
>	Ge-1 72	10493.5	2.0				ug/L	9744	KED
[	As-2 75	1.3	114.6	0.0045	0.027	598.7	ug/L	1	KED
	Y-1 89	17955.6	0.8				ug/L	16475	KED
	Rh-1 103	101925.7	0.9				ug/L	96667	KED
[	Cd-1 111	4.7	61.9	0.0085	0.014	161.4	ug/L	3	KED
	Cd-1 114	4.0	42.0	0.0008	0.003	415.1	ug/L	3	KED
>	In-1 115	11461.5	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
	Sc 45		
	Ge 72		
	Y 89		
[	Rh 103		
>	In 115		97.750
>	Tb 159		97.513
	Ho 165		
	Pb 208		
	Bi 209		
	Th 232		
	Cr-1 52		
	Cr-1 53		
>	Ge-1 72		107.689
	As-2 75		
	Y-1 89		
	Rh-1 103		
[	Cd-1 111		
	Cd-1 114		
>	In-1 115		107.342

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:05:38

Quantitative Analysis - Summary Report

Sample ID: 05-223-04c 2X

Sample Date/Time: Tuesday, May 24, 2022 13:59:03

Report Date/Time: Tuesday, May 24, 2022 16:05:40

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	485869.3	2.1				ug/L	438379	Standard
	Ge	72	234320.0	2.2				ug/L	247731	Standard
	Y	89	478910.4	1.4				ug/L	510501	Standard
[	Rh	103	351153.6	1.4				ug/L	411319	Standard
>	In	115	313449.0	1.0				ug/L	360358	Standard
>	Tb	159	429530.5	0.5				ug/L	467950	Standard
|	Ho	165	431762.2	0.3				ug/L	471089	Standard
|	Pb	208	10740.6	0.9	0.3561	0.002	0.7	ug/L	422	Standard
|	Bi	209	215731.7	0.3				ug/L	266451	Standard
|	Th	232	299731.8	0.5				ug/L	327492	Standard
[	Cr-1	52	784.7	6.7	0.8671	0.085	9.9	ug/L	98	KED
|	Cr-1	53	108.3	5.4	0.9980	0.063	6.3	ug/L	9	KED
>	Ge-1	72	9165.9	2.2				ug/L	9744	KED
|	As-2	75	99.3	10.1	1.9835	0.246	12.4	ug/L	1	KED
|	Y-1	89	16580.6	1.4				ug/L	16475	KED
|	Rh-1	103	85799.9	1.2				ug/L	96667	KED
[	Cd-1	111	2.7	21.7	0.0009	0.003	320.5	ug/L	3	KED
|	Cd-1	114	2.7	10.2	-0.0010	0.001	63.8	ug/L	3	KED
>	In-1	115	9970.3	1.0				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		86.983
>	Tb	159		91.790
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		94.064
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		93.376

Sample ID: 05-223-04c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:40

Quantitative Analysis - Summary Report

Sample ID: 05-223-05c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:04:33

Report Date/Time: Tuesday, May 24, 2022 16:05:42

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-05c 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	423619.6	3.1				ug/L	438379	Standard
	Ge	72	209426.8	3.0				ug/L	247731	Standard
	Y	89	443687.0	0.9				ug/L	510501	Standard
[	Rh	103	324854.1	1.8				ug/L	411319	Standard
>	In	115	284694.9	1.1				ug/L	360358	Standard
>	Tb	159	383100.2	0.5				ug/L	467950	Standard
	Ho	165	386921.2	1.1				ug/L	471089	Standard
	Pb	208	1757.0	0.8	0.0544	0.001	1.6	ug/L	422	Standard
	Bi	209	201847.3	0.3				ug/L	266451	Standard
	Th	232	265634.7	1.0				ug/L	327492	Standard
[	Cr-1	52	1233.7	0.2	1.5775	0.032	2.0	ug/L	98	KED
	Cr-1	53	156.7	7.8	1.6351	0.152	9.3	ug/L	9	KED
>	Ge-1	72	8357.1	1.8				ug/L	9744	KED
[	As-2	75	140.3	15.2	3.0833	0.513	16.6	ug/L	1	KED
	Y-1	89	15567.5	0.5				ug/L	16475	KED
	Rh-1	103	80150.2	0.1				ug/L	96667	KED
[	Cd-1	111	1.3	43.3	-0.0055	0.003	60.3	ug/L	3	KED
	Cd-1	114	4.1	136.7	0.0030	0.013	451.2	ug/L	3	KED
>	In-1	115	9079.8	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		79.003
>	Tb	159		81.868
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		85.764
	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		85.037

Sample ID: 05-223-05c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:42

Quantitative Analysis - Summary Report

Sample ID: 05-223-06b 2X

Sample Date/Time: Tuesday, May 24, 2022 14:10:03

Report Date/Time: Tuesday, May 24, 2022 16:05:45

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-06b 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	448112.5	0.6				ug/L	438379	Standard
	Ge	72	226930.4	2.2				ug/L	247731	Standard
	Y	89	464461.6	1.7				ug/L	510501	Standard
[	Rh	103	352735.8	0.8				ug/L	411319	Standard
>	In	115	311868.2	1.2				ug/L	360358	Standard
>	Tb	159	415256.6	0.2				ug/L	467950	Standard
	Ho	165	420770.5	1.0				ug/L	471089	Standard
	Pb	208	1108.0	3.7	0.0261	0.001	5.6	ug/L	422	Standard
	Bi	209	219182.7	0.4				ug/L	266451	Standard
	Th	232	287874.3	0.4				ug/L	327492	Standard
[	Cr-1	52	1068.7	3.7	1.1962	0.059	4.9	ug/L	98	KED
	Cr-1	53	125.0	4.5	1.1403	0.037	3.2	ug/L	9	KED
>	Ge-1	72	9344.4	1.6				ug/L	9744	KED
[	As-2	75	51.0	10.4	0.9881	0.109	11.0	ug/L	1	KED
	Y-1	89	16213.2	1.4				ug/L	16475	KED
	Rh-1	103	87905.3	0.2				ug/L	96667	KED
[	Cd-1	111	1.7	34.6	-0.0045	0.003	68.9	ug/L	3	KED
	Cd-1	114	3.1	53.6	-0.0002	0.003	1667.4	ug/L	3	KED
>	In-1	115	10055.0	1.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		86.544
>	Tb	159		88.740
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		95.896
	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		94.169

Sample ID: 05-223-06b 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:45

Quantitative Analysis - Summary Report

Sample ID: 05-223-07c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:15:32

Report Date/Time: Tuesday, May 24, 2022 16:05:48

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-07c 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	395476.2	1.6				ug/L	438379	Standard
	Ge	72	203737.4	2.3				ug/L	247731	Standard
	Y	89	426274.5	1.1				ug/L	510501	Standard
[	Rh	103	324035.1	2.7				ug/L	411319	Standard
[>	In	115	286455.0	0.3				ug/L	360358	Standard
[>	Tb	159	381031.6	0.1				ug/L	467950	Standard
|	Ho	165	384347.8	0.6				ug/L	471089	Standard
|	Pb	208	3681.2	3.3	0.1294	0.005	3.7	ug/L	422	Standard
|	Bi	209	203214.5	0.3				ug/L	266451	Standard
[	Th	232	263030.4	0.2				ug/L	327492	Standard
[	Cr-1	52	1840.1	0.5	2.3317	0.029	1.2	ug/L	98	KED
|	Cr-1	53	253.0	9.3	2.6091	0.280	10.7	ug/L	9	KED
[>	Ge-1	72	8622.3	1.1				ug/L	9744	KED
[	As-2	75	106.0	3.4	2.2481	0.053	2.4	ug/L	1	KED
	Y-1	89	14946.1	0.2				ug/L	16475	KED
	Rh-1	103	81641.0	0.2				ug/L	96667	KED
[	Cd-1	111	3.0	33.3	0.0039	0.006	154.9	ug/L	3	KED
|	Cd-1	114	5.3	17.8	0.0054	0.002	36.5	ug/L	3	KED
[>	In-1	115	9334.9	1.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		79.492
[>	Tb	159		81.426
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr-1	52		
|	Cr-1	53		
[>	Ge-1	72		88.485
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
[>	In-1	115		87.426

Sample ID: 05-223-07c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:48

Quantitative Analysis - Summary Report

Sample ID: 05-223-08c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:21:01

Report Date/Time: Tuesday, May 24, 2022 16:05:50

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-08c 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	477472.2	2.7				ug/L	438379	Standard
	Ge	72	236509.3	2.7				ug/L	247731	Standard
	Y	89	498044.1	0.5				ug/L	510501	Standard
[	Rh	103	369636.5	2.7				ug/L	411319	Standard
>	In	115	325984.2	0.2				ug/L	360358	Standard
>	Tb	159	439302.4	0.5				ug/L	467950	Standard
	Ho	165	441319.4	0.4				ug/L	471089	Standard
	Pb	208	1378.0	2.9	0.0330	0.001	3.6	ug/L	422	Standard
	Bi	209	229204.8	0.7				ug/L	266451	Standard
	Th	232	301456.3	0.9				ug/L	327492	Standard
[	Cr-1	52	1474.4	1.5	1.6081	0.071	4.4	ug/L	98	KED
	Cr-1	53	179.0	3.4	1.5874	0.052	3.3	ug/L	9	KED
>	Ge-1	72	9816.0	3.0				ug/L	9744	KED
[	As-2	75	59.3	19.5	1.1004	0.249	22.6	ug/L	1	KED
	Y-1	89	17374.2	0.3				ug/L	16475	KED
	Rh-1	103	92650.2	0.8				ug/L	96667	KED
[	Cd-1	111	2.3	107.9	-0.0018	0.013	719.7	ug/L	3	KED
	Cd-1	114	1.8	118.7	-0.0031	0.004	138.8	ug/L	3	KED
>	In-1	115	10801.7	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		90.461
>	Tb	159		93.878
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
[	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		100.736
[	As-2	75		
	Y-1	89		
	Rh-1	103		
[	Cd-1	111		
	Cd-1	114		
>	In-1	115		101.163

Sample ID: 05-223-08c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:50

Quantitative Analysis - Summary Report

Sample ID: 05-223-09c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:26:31

Report Date/Time: Tuesday, May 24, 2022 16:05:51

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-09c 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	483669.8	1.6				ug/L	438379	Standard
	Ge	72	237103.7	2.2				ug/L	247731	Standard
	Y	89	492233.5	1.2				ug/L	510501	Standard
[	Rh	103	368724.5	2.0				ug/L	411319	Standard
>	In	115	324543.6	1.2				ug/L	360358	Standard
>	Tb	159	433826.4	0.2				ug/L	467950	Standard
|	Ho	165	440517.5	0.4				ug/L	471089	Standard
|	Pb	208	1815.4	0.6	0.0485	0.000	0.6	ug/L	422	Standard
|	Bi	209	227041.0	0.7				ug/L	266451	Standard
|	Th	232	300197.4	0.6				ug/L	327492	Standard
[	Cr-1	52	1538.4	2.8	1.6618	0.053	3.2	ug/L	98	KED
|	Cr-1	53	194.7	3.9	1.7136	0.072	4.2	ug/L	9	KED
>	Ge-1	72	9924.8	0.2				ug/L	9744	KED
|	As-2	75	62.3	15.4	1.1393	0.177	15.6	ug/L	1	KED
|	Y-1	89	17398.3	1.2				ug/L	16475	KED
|	Rh-1	103	92254.3	0.7				ug/L	96667	KED
[	Cd-1	111	3.3	69.3	0.0033	0.011	348.0	ug/L	3	KED
|	Cd-1	114	1.3	279.1	-0.0041	0.008	181.8	ug/L	3	KED
>	In-1	115	10681.9	1.4				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		90.061
>	Tb	159		92.708
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
[	Cr-1	52		
|	Cr-1	53		
>	Ge-1	72		101.852
|	As-2	75		
|	Y-1	89		
|	Rh-1	103		
[	Cd-1	111		
|	Cd-1	114		
>	In-1	115		100.041

Sample ID: 05-223-09c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:51

Quantitative Analysis - Summary Report

Sample ID: 05-223-04c 2X

Sample Date/Time: Tuesday, May 24, 2022 14:34:14

Report Date/Time: Tuesday, May 24, 2022 16:05:53

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04c 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	486854.5	2.7				ug/L	438379	Standard
	Ge	72	235766.1	2.1				ug/L	247731	Standard
	Y	89	482927.3	1.8				ug/L	510501	Standard
[	Rh	103	355595.7	0.5				ug/L	411319	Standard
>	In	115	315618.4	0.2				ug/L	360358	Standard
>	Tb	159	432853.0	0.7				ug/L	467950	Standard
	Ho	165	432881.0	0.3				ug/L	471089	Standard
	Pb	208	11212.7	1.4	0.3694	0.003	0.7	ug/L	422	Standard
	Bi	209	216764.8	0.4				ug/L	266451	Standard
	Th	232	298492.5	0.4				ug/L	327492	Standard
[	Cr-1	52	832.4	0.9	0.9043	0.008	0.9	ug/L	98	KED
	Cr-1	53	115.7	1.8	1.0476	0.032	3.0	ug/L	9	KED
>	Ge-1	72	9357.4	1.0				ug/L	9744	KED
	As-2	75	101.7	2.5	1.9849	0.041	2.1	ug/L	1	KED
	Y-1	89	17332.2	1.6				ug/L	16475	KED
	Rh-1	103	87942.5	0.4				ug/L	96667	KED
[	Cd-1	111	5.7	44.4	0.0160	0.013	80.8	ug/L	3	KED
	Cd-1	114	16.6	57.1	0.0283	0.021	72.5	ug/L	3	KED
>	In-1	115	10327.5	1.8				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
>	In	115		87.585
>	Tb	159		92.500
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		96.029
	As-2	75		
	Y-1	89		
	Rh-1	103		
	Cd-1	111		
	Cd-1	114		
>	In-1	115		96.722

Sample ID: 05-223-04c 2X

Report Date/Time: Tuesday, May 24, 2022 16:05:53

Quantitative Analysis - Summary Report

Sample ID: 05-223-04d 2X

Sample Date/Time: Tuesday, May 24, 2022 14:39:43

Report Date/Time: Tuesday, May 24, 2022 16:05:55

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\05-223-04d 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	505091.0	1.4				ug/L	438379	Standard
	Ge	72	246341.2	3.2				ug/L	247731	Standard
	Y	89	497523.7	2.6				ug/L	510501	Standard
[	Rh	103	368364.1	3.1				ug/L	411319	Standard
[>	In	115	323962.5	1.4				ug/L	360358	Standard
[>	Tb	159	444050.6	0.7				ug/L	467950	Standard
[	Ho	165	447157.5	1.0				ug/L	471089	Standard
[	Pb	208	833.0	2.7	0.0144	0.001	6.5	ug/L	422	Standard
[	Bi	209	222337.9	0.9				ug/L	266451	Standard
[	Th	232	307197.2	0.3				ug/L	327492	Standard
[	Cr-1	52	745.4	1.3	0.7741	0.011	1.4	ug/L	98	KED
[	Cr-1	53	109.7	8.5	0.9606	0.086	9.0	ug/L	9	KED
[>	Ge-1	72	9604.9	0.3				ug/L	9744	KED
[	As-2	75	114.0	8.6	2.1704	0.194	8.9	ug/L	1	KED
[	Y-1	89	17355.2	0.7				ug/L	16475	KED
[	Rh-1	103	90157.9	0.7				ug/L	96667	KED
[	Cd-1	111	1.0	100.0	-0.0083	0.005	60.7	ug/L	3	KED
[	Cd-1	114	2.2	69.7	-0.0024	0.003	128.9	ug/L	3	KED
[>	In-1	115	10607.9	1.5				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		89.900
[>	Tb	159		94.893
[	Ho	165		
[	Pb	208		
[	Bi	209		
[	Th	232		
[	Cr-1	52		
[	Cr-1	53		
[>	Ge-1	72		98.569
[	As-2	75		
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111		
[	Cd-1	114		
[>	In-1	115		99.348

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, May 24, 2022 14:45:12

Report Date/Time: Tuesday, May 24, 2022 16:05:57

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 6.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	439344.1	0.8				ug/L	438379	Standard
	Ge	72	249157.2	2.9				ug/L	247731	Standard
	Y	89	512450.2	2.0				ug/L	510501	Standard
[	Rh	103	409960.4	2.5				ug/L	411319	Standard
[>	In	115	354630.4	0.9				ug/L	360358	Standard
[>	Tb	159	457017.4	0.6				ug/L	467950	Standard
|	Ho	165	460439.5	0.2				ug/L	471089	Standard
|	Pb	208	1271121.2	0.7	41.0768	0.333	0.8	ug/L	422	Standard
|	Bi	209	257095.2	0.7				ug/L	266451	Standard
[	Th	232	318275.1	0.6				ug/L	327492	Standard
[	Cr-1	52	36913.3	0.2	39.2595	0.458	1.2	ug/L	98	KED
|	Cr-1	53	4540.4	1.3	38.7095	1.047	2.7	ug/L	9	KED
[>	Ge-1	72	10751.4	1.3				ug/L	9744	KED
[	As-2	75	2456.9	2.5	42.1236	0.543	1.3	ug/L	1	KED
	Y-1	89	18424.9	1.0				ug/L	16475	KED
	Rh-1	103	103714.5	1.0				ug/L	96667	KED
[	Cd-1	111	8798.4	1.0	39.5277	0.815	2.1	ug/L	3	KED
|	Cd-1	114	21555.8	0.3	39.1302	0.545	1.4	ug/L	3	KED
[>	In-1	115	11940.7	1.1				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		98.410
[>	Tb	159		97.664
|	Ho	165		
|	Pb	208	102.692	
|	Bi	209		
[	Th	232		
[	Cr-1	52	98.149	
|	Cr-1	53	96.774	
[>	Ge-1	72		110.335
[	As-2	75	105.309	
	Y-1	89		
	Rh-1	103		
[	Cd-1	111	98.819	
|	Cd-1	114	97.825	
[>	In-1	115		111.830

Sample ID: QC Std 6

Report Date/Time: Tuesday, May 24, 2022 16:05:57

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, May 24, 2022 14:50:42

Report Date/Time: Tuesday, May 24, 2022 16:06:00

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 7.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	412722.7	2.1				ug/L	438379	Standard
	Ge	72	235074.1	3.0				ug/L	247731	Standard
	Y	89	477735.3	1.6				ug/L	510501	Standard
[	Rh	103	379251.8	1.4				ug/L	411319	Standard
[>	In	115	326817.7	0.9				ug/L	360358	Standard
[>	Tb	159	424881.5	0.2				ug/L	467950	Standard
[	Ho	165	427533.7	0.6				ug/L	471089	Standard
[	Pb	208	595930.0	0.8	20.7072	0.143	0.7	ug/L	422	Standard
[	Bi	209	238002.6	0.7				ug/L	266451	Standard
[	Th	232	295568.3	0.3				ug/L	327492	Standard
[	Cr-1	52	17575.5	0.5	19.9105	0.173	0.9	ug/L	98	KED
[	Cr-1	53	2220.5	4.6	20.1779	0.946	4.7	ug/L	9	KED
[>	Ge-1	72	10064.2	0.6				ug/L	9744	KED
[	As-2	75	1170.4	7.0	21.4252	1.394	6.5	ug/L	1	KED
[	Y-1	89	17084.9	1.6				ug/L	16475	KED
[	Rh-1	103	96238.4	0.9				ug/L	96667	KED
[	Cd-1	111	4079.9	2.2	20.3278	0.311	1.5	ug/L	3	KED
[	Cd-1	114	10174.8	2.0	20.4910	0.491	2.4	ug/L	3	KED
[>	In-1	115	10761.2	0.7				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
[	Rh	103		
[>	In	115		90.692
[>	Tb	159		90.796
[	Ho	165		
[	Pb	208	103.536	
[	Bi	209		
[	Th	232		
[	Cr-1	52	99.552	
[	Cr-1	53	100.889	
[>	Ge-1	72		103.283
[	As-2	75	107.126	
[	Y-1	89		
[	Rh-1	103		
[	Cd-1	111	101.639	
[	Cd-1	114	102.455	
[>	In-1	115		100.783

Sample ID: QC Std 7

Report Date/Time: Tuesday, May 24, 2022 16:06:00

Page 1

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, May 24, 2022 14:56:13

Report Date/Time: Tuesday, May 24, 2022 16:06:01

Method File: C:\NexIONData_kmckinney\Method\X220524B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220524B\QC Std 8.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Sc	45	435581.5	1.2				ug/L	438379	Standard
	Ge	72	249468.9	2.0				ug/L	247731	Standard
	Y	89	505801.9	2.8				ug/L	510501	Standard
	Rh	103	404186.3	2.1				ug/L	411319	Standard
>	In	115	345418.7	0.5				ug/L	360358	Standard
>	Tb	159	448649.2	0.6				ug/L	467950	Standard
	Ho	165	454249.1	0.5				ug/L	471089	Standard
	Pb	208	594.7	6.1	0.0063	0.001	17.5	ug/L	422	Standard
	Bi	209	253039.0	0.1				ug/L	266451	Standard
	Th	232	308337.0	0.4				ug/L	327492	Standard
	Cr-1	52	92.7	15.3	-0.0165	0.015	93.0	ug/L	98	KED
	Cr-1	53	11.7	24.7	0.0121	0.025	206.7	ug/L	9	KED
>	Ge-1	72	10714.7	1.8				ug/L	9744	KED
	As-2	75	1.7	69.3	0.0098	0.020	203.8	ug/L	1	KED
	Y-1	89	18352.4	1.4				ug/L	16475	KED
	Rh-1	103	102726.0	0.6				ug/L	96667	KED
	Cd-1	111	4.7	53.9	0.0081	0.011	142.5	ug/L	3	KED
	Cd-1	114	9.6	52.6	0.0110	0.010	86.3	ug/L	3	KED
>	In-1	115	11637.4	0.9				ug/L	10678	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Sc	45		
	Ge	72		
	Y	89		
	Rh	103		
>	In	115		95.854
>	Tb	159		95.876
	Ho	165		
	Pb	208		
	Bi	209		
	Th	232		
	Cr-1	52		
	Cr-1	53		
>	Ge-1	72		109.958
	As-2	75		
	Y-1	89		
	Rh-1	103		
	Cd-1	111		
	Cd-1	114		
>	In-1	115		108.990

Sample ID: QC Std 8

Report Date/Time: Tuesday, May 24, 2022 16:06:01



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2022

Brian Tracy
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-024-11
Laboratory Reference No. 2208-268

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Goodrow", enclosed within a large, loopy circular flourish.

Blair Goodrow
Project Manager

Enclosures



Date of Report: September 9, 2022
Samples Submitted: August 25, 2022
Laboratory Reference: 2208-268
Project: 5147-024-11

Case Narrative

Samples were collected on August 23 and 24, 2022 and received by the laboratory on August 25, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Metals by EPA 200.8/7470A Analysis

The dissolved field filter sample MW-4_082322 (08-268-01) was received containing solid material. The sample was digested according to OnSite Environmental standard operating procedure.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 9, 2022
Samples Submitted: August 25, 2022
Laboratory Reference: 2208-268
Project: 5147-024-11

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-4_082322	08-268-01	Water	8-23-22	8-25-22	
MW-15_082322	08-268-02	Water	8-23-22	8-25-22	
MW-2A_082322	08-268-03	Water	8-23-22	8-25-22	
MW-3_082322	08-268-04	Water	8-23-22	8-25-22	
MW-1A_082322	08-268-05	Water	8-24-22	8-25-22	
MW-8_082322	08-268-06	Water	8-24-22	8-25-22	
MW-13_082322	08-268-07	Water	8-24-22	8-25-22	
MW-14_082322	08-268-08	Water	8-24-22	8-25-22	
DUP-1	08-268-09	Water	8-24-22	8-25-22	



Date of Report: September 9, 2022
 Samples Submitted: August 25, 2022
 Laboratory Reference: 2208-268
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**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	82	65-122				
Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Gasoline Range Organics	230	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	82	65-122				
Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	82	65-122				
Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	65-122				
Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	89	65-122				
Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Gasoline Range Organics	290	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	65-122				
Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	89	65-122				



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	65-122				
Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	65-122				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Diesel Range Organics	0.44	0.22	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.35	0.22	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	59	50-150				

Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Diesel Range Organics	ND	0.22	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	126	50-150				

Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Diesel Range Organics	1.6	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	1.0	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				

Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Diesel Range Organics	0.37	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.44	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	121	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Diesel Range Organics	0.40	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.53	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	138	50-150				

Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Diesel Range Organics	0.36	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.43	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				

Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Diesel Range Organics	0.57	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.57	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				

Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	113	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Diesel Range Organics	0.35	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.63	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	124	50-150				

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Diesel Range Organics	ND	0.21	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.25	0.21	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Diesel Range Organics	ND	0.21	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	117	50-150				

Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Diesel Range Organics	0.37	0.20	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	0.49	0.20	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Diesel Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>

Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>78-125</i>



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	102	75-127
Toluene-d8	100	80-127
4-Bromofluorobenzene	104	78-125

Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	102	75-127
Toluene-d8	98	80-127
4-Bromofluorobenzene	103	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	103	75-127
<i>Toluene-d8</i>	99	80-127
<i>4-Bromofluorobenzene</i>	104	78-125

Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	4.3	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	10	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	0.45	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	103	75-127
<i>Toluene-d8</i>	102	80-127
<i>4-Bromofluorobenzene</i>	106	78-125



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	3.0	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>78-125</i>

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>



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VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Arsenic	ND	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Arsenic	6.8	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Arsenic	5.2	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Arsenic	ND	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Arsenic	ND	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Arsenic	4.4	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Arsenic	ND	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Arsenic	4.0	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	



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TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Arsenic	ND	3.3	EPA 200.8	9-1-22	9-1-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-1-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-1-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Arsenic	ND	3.3	EPA 200.8	9-1-22	9-2-22	
Cadmium	ND	4.4	EPA 200.8	9-1-22	9-2-22	
Chromium	ND	11	EPA 200.8	9-1-22	9-2-22	
Lead	ND	1.1	EPA 200.8	9-1-22	9-2-22	
Manganese	5200	56	EPA 6010D	9-1-22	9-1-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	

Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Arsenic	6.8	5.0	EPA 200.8		9-2-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	5000	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	

Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Arsenic	5.1	5.0	EPA 200.8		9-2-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	180	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	

Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Arsenic	ND	3.0	EPA 200.8		9-1-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	35	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Arsenic	ND	3.0	EPA 200.8		9-1-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	81	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	

Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Arsenic	4.1	3.0	EPA 200.8		9-1-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	1400	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	

Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Arsenic	ND	3.0	EPA 200.8		9-1-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	110	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Arsenic	3.2	3.0	EPA 200.8		9-1-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	150	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Arsenic	ND	3.0	EPA 200.8		9-1-22	
Cadmium	ND	4.0	EPA 200.8		9-1-22	
Chromium	ND	10	EPA 200.8		9-1-22	
Lead	ND	1.0	EPA 200.8		9-1-22	
Manganese	79	11	EPA 6010D		8-30-22	
Mercury	ND	0.025	EPA 7470A		9-2-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Total Alkalinity	340	2.0	SM 2320B	8-29-22	8-29-22	

Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Total Alkalinity	450	2.0	SM 2320B	8-29-22	8-29-22	

Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Total Alkalinity	300	2.0	SM 2320B	8-29-22	8-29-22	

Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Total Alkalinity	180	2.0	SM 2320B	8-29-22	8-29-22	

Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Total Alkalinity	270	2.0	SM 2320B	9-7-22	9-7-22	

Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Total Alkalinity	180	2.0	SM 2320B	8-29-22	8-29-22	

Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Total Alkalinity	240	2.0	SM 2320B	9-7-22	9-7-22	

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Total Alkalinity	150	2.0	SM 2320B	8-29-22	8-29-22	

Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Total Alkalinity	270	2.0	SM 2320B	9-7-22	9-7-22	



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**DISSOLVED METHANE
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4_082322					
Laboratory ID:	08-268-01					
Methane	7200	55	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	58	50-150				
Client ID:	MW-15_082322					
Laboratory ID:	08-268-02					
Methane	7700	55	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	56	50-150				
Client ID:	MW-2A_082322					
Laboratory ID:	08-268-03					
Methane	300	2.2	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	69	50-150				
Client ID:	MW-3_082322					
Laboratory ID:	08-268-04					
Methane	220	2.2	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	72	50-150				
Client ID:	MW-1A_082422					
Laboratory ID:	08-268-05					
Methane	380	2.8	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	62	50-150				
Client ID:	MW-8_082422					
Laboratory ID:	08-268-06					
Methane	910	5.5	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	67	50-150				



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**DISSOLVED METHANE
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-13_082422					
Laboratory ID:	08-268-07					
Methane	920	5.5	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	68	50-150				

Client ID:	MW-14_082422					
Laboratory ID:	08-268-08					
Methane	760	5.5	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	67	50-150				

Client ID:	DUP-1					
Laboratory ID:	08-268-09					
Methane	400	2.8	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	70	50-150				



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0829W1					
Gasoline	ND	100	NWTPH-Gx	8-29-22	8-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>81</i>	<i>65-122</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-268-02							
	ORIG	DUP						
GRO	226	227	NA	NA	NA	NA	0	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				82	82	65-122		



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**GASOLINE RANGE ORGANICS
NWTPH-Gx
CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
ICVD0829G-1	5.00	4.94	1	+/- 20%
CCVD0829G-1	5.00	4.87	3	+/- 20%
CCVH0829G-1	2.50	2.52	-1	+/- 20%
CCVH0829G-2	2.50	2.54	-2	+/- 20%



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830W2					
Diesel Range Organics	ND	0.16	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	8-30-22	9-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				
Laboratory ID:	MB0830W2					
Diesel Range Organics	ND	0.16	NWTPH-Dx	8-30-22	9-1-22	X1
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	8-30-22	9-1-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	126	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0830W2							
	ORIG	DUP						
Diesel Fuel #2	0.419	0.458	NA	NA	NA	9	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				96	100	50-150		
Laboratory ID:	SB0830W2							
	ORIG	DUP						
Diesel Fuel #2	0.431	0.470	NA	NA	NA	9	NA	X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				126	133	50-150		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 CONTINUING CALIBRATION SUMMARY**

Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
CCV0901R-V1	100	99.1	0.9	+/-15%
CCV0901R-V2	100	98.3	1.7	+/-15%
CCV0901R-V3	100	99.4	0.6	+/-15%
CCV0901F-V1	100	97.7	2.3	+/-15%
CCV0901F-V2	100	98.2	1.8	+/-15%
CCV0901F-V3	100	95.7	4.3	+/-15%



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826W2					
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-26-22	8-26-22	
n-Hexane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Benzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
1,2-Dichloroethane	ND	1.0	EPA 8260D	8-26-22	8-26-22	
Toluene	ND	1.0	EPA 8260D	8-26-22	8-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-26-22	8-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-26-22	8-26-22	
o-Xylene	ND	0.20	EPA 8260D	8-26-22	8-26-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0826W2									
	SB	SBD	SB	SBD	SB	SBD				
Methyl t-Butyl Ether	11.2	11.5	10.0	10.0	112	115	80-122	3	15	
Benzene	9.26	9.61	10.0	10.0	93	96	80-121	4	16	
1,2-Dichloroethane	10.7	10.9	10.0	10.0	107	109	80-124	2	15	
Toluene	9.23	9.73	10.0	10.0	92	97	80-120	5	18	
1,2-Dibromoethane	10.9	11.5	10.0	10.0	109	115	80-127	5	15	
Ethylbenzene	8.81	9.35	10.0	10.0	88	94	80-125	6	18	
m,p-Xylene	17.8	18.9	20.0	20.0	89	95	80-127	6	18	
o-Xylene	9.16	9.63	10.0	10.0	92	96	80-126	5	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	103	75-127			
<i>Toluene-d8</i>					99	99	80-127			
<i>4-Bromofluorobenzene</i>					104	103	78-125			



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 Laboratory Reference: 2208-268
 Project: 5147-024-11

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901WM1					
Arsenic	ND	3.3	EPA 200.8		9-1-22	
Cadmium	ND	4.4	EPA 200.8		9-1-22	
Chromium	ND	11	EPA 200.8		9-1-22	
Lead	ND	1.1	EPA 200.8		9-1-22	

Laboratory ID:	MB0901W1					
Mercury	ND	0.025	EPA 7470A	9-2-22	9-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-238-05							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	08-268-02							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	08-238-05									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	110	113	111	111	ND	100	102	75-125	3	20
Cadmium	108	110	111	111	ND	97	100	75-125	3	20
Chromium	109	111	111	111	ND	98	100	75-125	2	20
Lead	107	110	111	111	ND	97	100	75-125	3	20

Laboratory ID:	08-298-01									
Mercury	5.58	5.53	6.25	6.25	ND	89	88	75-125	1	20



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**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV090222X	50.0	52.1	-4.2	+/- 10%
Cadmium	ICV090222X	50.0	51.3	-2.6	+/- 10%
Chromium	ICV090222X	50.0	50.9	-1.8	+/- 10%
Lead	ICV090222X	50.0	52.9	-5.8	+/- 10%
Arsenic	CCV1090222X	40.0	41.3	-3.2	+/- 10%
Cadmium	CCV1090222X	40.0	40.2	-0.50	+/- 10%
Chromium	CCV1090222X	40.0	40.0	0	+/- 10%
Lead	CCV1090222X	40.0	41.8	-4.5	+/- 10%
Arsenic	CCV1090222X	20.0	20.5	-2.5	+/- 10%
Cadmium	CCV1090222X	20.0	20.1	-0.50	+/- 10%
Chromium	CCV1090222X	20.0	19.8	1.0	+/- 10%
Lead	CCV1090222X	20.0	21.0	-5.0	+/- 10%
Arsenic	CCV2090222X	40.0	41.8	-4.5	+/- 10%
Cadmium	CCV2090222X	40.0	40.5	-1.3	+/- 10%
Chromium	CCV2090222X	40.0	38.8	3.0	+/- 10%
Lead	CCV2090222X	40.0	41.7	-4.3	+/- 10%
Arsenic	CCV2090222X	20.0	21.4	-7.0	+/- 10%
Cadmium	CCV2090222X	20.0	20.2	-1.0	+/- 10%
Chromium	CCV2090222X	20.0	19.5	2.5	+/- 10%
Lead	CCV2090222X	20.0	21.0	-5.0	+/- 10%
Arsenic	CCV3090222X	40.0	40.2	-0.50	+/- 10%
Cadmium	CCV3090222X	40.0	40.3	-0.75	+/- 10%
Chromium	CCV3090222X	40.0	37.6	6.0	+/- 10%
Lead	CCV3090222X	40.0	41.7	-4.3	+/- 10%
Arsenic	CCV3090222X	20.0	19.7	1.5	+/- 10%
Cadmium	CCV3090222X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV3090222X	20.0	18.4	8.0	+/- 10%
Lead	CCV3090222X	20.0	20.9	-4.5	+/- 10%



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**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV090122X	50.0	52.2	-4.4	+/- 10%
Cadmium	ICV090122X	50.0	53.0	-6.0	+/- 10%
Chromium	ICV090122X	50.0	50.7	-1.4	+/- 10%
Lead	ICV090122X	50.0	52.5	-5.0	+/- 10%
Mercury	ICV090222I	2.50	2.52	-0.80	+/- 10%
Arsenic	CCV1090122X	40.0	38.9	2.8	+/- 10%
Cadmium	CCV1090122X	40.0	38.9	2.8	+/- 10%
Chromium	CCV1090122X	40.0	39.1	2.3	+/- 10%
Lead	CCV1090122X	40.0	40.0	0	+/- 10%
Mercury	CCV1090222I	2.50	2.52	-0.80	+/- 20%
Arsenic	CCV1090122X	20.0	19.0	5.0	+/- 10%
Cadmium	CCV1090122X	20.0	19.3	3.5	+/- 10%
Chromium	CCV1090122X	20.0	19.2	4.0	+/- 10%
Lead	CCV1090122X	20.0	19.7	1.5	+/- 10%
Arsenic	CCV2090122X	40.0	38.3	4.3	+/- 10%
Cadmium	CCV2090122X	40.0	38.9	2.8	+/- 10%
Chromium	CCV2090122X	40.0	38.2	4.5	+/- 10%
Lead	CCV2090122X	40.0	39.7	0.75	+/- 10%
Mercury	CCV2090222I	2.50	2.51	-0.40	+/- 20%
Arsenic	CCV2090122X	20.0	19.2	4.0	+/- 10%
Cadmium	CCV2090122X	20.0	19.2	4.0	+/- 10%
Chromium	CCV2090122X	20.0	19.0	5.0	+/- 10%
Lead	CCV2090122X	20.0	19.5	2.5	+/- 10%



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**TOTAL METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	CCV3090122X	40.0	40.1	-0.25	+/- 10%
Cadmium	CCV3090122X	40.0	39.7	0.75	+/- 10%
Chromium	CCV3090122X	40.0	38.8	3.0	+/- 10%
Lead	CCV3090122X	40.0	40.1	-0.25	+/- 10%
Mercury	CCV3090222I	2.50	2.28	8.8	+/- 20%
Arsenic	CCV3090122X	20.0	20.1	-0.50	+/- 10%
Cadmium	CCV3090122X	20.0	20.2	-1.0	+/- 10%
Chromium	CCV3090122X	20.0	19.7	1.5	+/- 10%
Lead	CCV3090122X	20.0	20.5	-2.5	+/- 10%
Arsenic	CCV4090122X	40.0	39.8	0.50	+/- 10%
Cadmium	CCV4090122X	40.0	39.4	1.5	+/- 10%
Chromium	CCV4090122X	40.0	37.7	5.7	+/- 10%
Lead	CCV4090122X	40.0	39.9	0.25	+/- 10%
Mercury	CCV4090222I	2.50	2.28	8.8	+/- 20%
Arsenic	CCV4090122X	20.0	20.2	-1.0	+/- 10%
Cadmium	CCV4090122X	20.0	20.2	-1.0	+/- 10%
Chromium	CCV4090122X	20.0	19.2	4.0	+/- 10%
Lead	CCV4090122X	20.0	20.4	-2.0	+/- 10%
Mercury	CCV5090222I	2.50	2.29	8.4	+/- 20%



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 Project: 5147-024-11

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901WM1					
Manganese	ND	12	EPA 6010D		8-30-22	
Laboratory ID:	MB0901WM1					
Arsenic	ND	3.3	EPA 200.8		9-1-22	
Cadmium	ND	4.4	EPA 200.8		9-1-22	
Chromium	ND	11	EPA 200.8		9-1-22	
Lead	ND	1.1	EPA 200.8		9-1-22	
Laboratory ID:	MB0826F1					
Arsenic	ND	3.0	EPA 200.8	8-26-22	9-1-22	
Laboratory ID:	MB0830D1					
Manganese	ND	11	EPA 6010D		8-30-22	
Laboratory ID:	MB0829F1					
Arsenic	ND	3.0	EPA 200.8	8-29-22	9-1-22	
Cadmium	ND	4.0	EPA 200.8	8-29-22	9-1-22	
Chromium	ND	10	EPA 200.8	8-29-22	9-1-22	
Lead	ND	1.0	EPA 200.8	8-29-22	9-1-22	
Laboratory ID:	MB0829F1					
Mercury	ND	0.025	EPA 7470A	8-29-22	9-2-22	



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**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	08-268-03									
	ORIG	DUP								
Manganese	178	179	NA	NA		NA	NA	1	20	
Laboratory ID:	08-298-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-298-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-238-05									
	ORIG	DUP								
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-238-05									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-291-16									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	



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**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD		Flags
					Result	Recovery	Limits	RPD	Limit			
MATRIX SPIKES												
Laboratory ID: 08-268-03												
	MS	MSD	MS	MSD		MS	MSD					
Manganese	716	709	556	556	178	97	96	75-125	1	20		
Laboratory ID: 08-298-01												
Arsenic	82.4	83.0	80.0	80.0	ND	103	104	75-125	1	20		
Cadmium	79.0	79.8	80.0	80.0	ND	99	100	75-125	1	20		
Chromium	78.0	78.0	80.0	80.0	ND	98	98	75-125	0	20		
Lead	77.8	78.8	80.0	80.0	ND	97	99	75-125	1	20		
Laboratory ID: 08-298-01												
Mercury	5.85	5.95	6.25	6.25	ND	94	95	75-125	2	20		
Laboratory ID: 08-238-05												
	MS	MSD	MS	MSD		MS	MSD					
Manganese	111	113	111	111	ND	100	102	75-125	2	20		
Laboratory ID: 08-238-05												
Arsenic	110	113	111	111	ND	100	102	75-125	3	20		
Cadmium	108	110	111	111	ND	97	100	75-125	3	20		
Chromium	109	111	111	111	ND	98	100	75-125	2	20		
Lead	107	110	111	111	ND	97	100	75-125	3	20		
Laboratory ID: 08-261-16												
	MS	MSD	MS	MSD		MS	MSD					
Arsenic	83.0	87.4	80.0	80.0	ND	104	109	75-125	5	20		



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**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV090222X	50.0	52.1	-4.2	+/- 10%
Cadmium	ICV090222X	50.0	51.3	-2.6	+/- 10%
Chromium	ICV090222X	50.0	50.9	-1.8	+/- 10%
Lead	ICV090222X	50.0	52.9	-5.8	+/- 10%
Manganese	ICV083022B	1000	1010	-1.0	+/- 10%
Manganese	LLV083022B	10.0	10.4	-4.0	+/- 20%
Arsenic	CCV1090222X	40.0	41.3	-3.2	+/- 10%
Cadmium	CCV1090222X	40.0	40.2	-0.50	+/- 10%
Chromium	CCV1090222X	40.0	40.0	0	+/- 10%
Lead	CCV1090222X	40.0	41.8	-4.5	+/- 10%
Manganese	CCV1083022B	1000	1000	0	+/- 10%
Arsenic	CCV1090222X	20.0	20.5	-2.5	+/- 10%
Cadmium	CCV1090222X	20.0	20.1	-0.50	+/- 10%
Chromium	CCV1090222X	20.0	19.8	1.0	+/- 10%
Lead	CCV1090222X	20.0	21.0	-5.0	+/- 10%
Arsenic	CCV2090222X	40.0	41.8	-4.5	+/- 10%
Cadmium	CCV2090222X	40.0	40.5	-1.3	+/- 10%
Chromium	CCV2090222X	40.0	38.8	3.0	+/- 10%
Lead	CCV2090222X	40.0	41.7	-4.3	+/- 10%
Manganese	CCV2083022B	1000	1010	-1.0	+/- 10%
Arsenic	CCV2090222X	20.0	21.4	-7.0	+/- 10%
Cadmium	CCV2090222X	20.0	20.2	-1.0	+/- 10%
Chromium	CCV2090222X	20.0	19.5	2.5	+/- 10%
Lead	CCV2090222X	20.0	21.0	-5.0	+/- 10%
Arsenic	CCV3090222X	40.0	40.2	-0.50	+/- 10%
Cadmium	CCV3090222X	40.0	40.3	-0.75	+/- 10%
Chromium	CCV3090222X	40.0	37.6	6.0	+/- 10%
Lead	CCV3090222X	40.0	41.7	-4.3	+/- 10%
Manganese	CCV3083022B	1000	1010	-1.0	+/- 10%
Arsenic	CCV3090222X	20.0	19.7	1.5	+/- 10%
Cadmium	CCV3090222X	20.0	20.3	-1.5	+/- 10%
Chromium	CCV3090222X	20.0	18.4	8.0	+/- 10%
Lead	CCV3090222X	20.0	20.9	-4.5	+/- 10%
Manganese	CCV4083022B	1000	1000	0	+/- 10%



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**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV090122X	50.0	52.2	-4.4	+/- 10%
Cadmium	ICV090122X	50.0	53.0	-6.0	+/- 10%
Chromium	ICV090122X	50.0	50.7	-1.4	+/- 10%
Lead	ICV090122X	50.0	52.5	-5.0	+/- 10%
Manganese	ICV090122B	1000	1030	-3.0	+/- 10%
Mercury	ICV090222I	2.50	2.52	-0.80	+/- 10%
Manganese	LLV090122B	10.0	10.7	-7.0	+/- 20%
Arsenic	CCV1090122X	40.0	38.9	2.8	+/- 10%
Cadmium	CCV1090122X	40.0	38.9	2.8	+/- 10%
Chromium	CCV1090122X	40.0	39.1	2.3	+/- 10%
Lead	CCV1090122X	40.0	40.0	0	+/- 10%
Manganese	CCV1090122B	1000	994	0.60	+/- 10%
Mercury	CCV1090222I	2.50	2.52	-0.80	+/- 20%
Arsenic	CCV1090122X	20.0	19.0	5.0	+/- 10%
Cadmium	CCV1090122X	20.0	19.3	3.5	+/- 10%
Chromium	CCV1090122X	20.0	19.2	4.0	+/- 10%
Lead	CCV1090122X	20.0	19.7	1.5	+/- 10%
Arsenic	CCV2090122X	40.0	38.3	4.3	+/- 10%
Cadmium	CCV2090122X	40.0	38.9	2.8	+/- 10%
Chromium	CCV2090122X	40.0	38.2	4.5	+/- 10%
Lead	CCV2090122X	40.0	39.7	0.75	+/- 10%
Manganese	CCV2090122B	1000	1030	-3.0	+/- 10%
Mercury	CCV2090222I	2.50	2.51	-0.40	+/- 20%
Arsenic	CCV2090122X	20.0	19.2	4.0	+/- 10%
Cadmium	CCV2090122X	20.0	19.2	4.0	+/- 10%
Chromium	CCV2090122X	20.0	19.0	5.0	+/- 10%
Lead	CCV2090122X	20.0	19.5	2.5	+/- 10%



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**DISSOLVED METALS
 EPA 200.8/7470A
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	CCV3090122X	40.0	40.1	-0.25	+/- 10%
Cadmium	CCV3090122X	40.0	39.7	0.75	+/- 10%
Chromium	CCV3090122X	40.0	38.8	3.0	+/- 10%
Lead	CCV3090122X	40.0	40.1	-0.25	+/- 10%
Manganese	CCV3090122B	1000	1040	-4.0	+/- 10%
Mercury	CCV3090222I	2.50	2.28	8.8	+/- 20%
Arsenic	CCV3090122X	20.0	20.1	-0.50	+/- 10%
Cadmium	CCV3090122X	20.0	20.2	-1.0	+/- 10%
Chromium	CCV3090122X	20.0	19.7	1.5	+/- 10%
Lead	CCV3090122X	20.0	20.5	-2.5	+/- 10%
Arsenic	CCV4090122X	40.0	39.8	0.50	+/- 10%
Cadmium	CCV4090122X	40.0	39.4	1.5	+/- 10%
Chromium	CCV4090122X	40.0	37.7	5.7	+/- 10%
Lead	CCV4090122X	40.0	39.9	0.25	+/- 10%
Manganese	CCV4090122B	1000	1020	-2.0	+/- 10%
Mercury	CCV4090222I	2.50	2.28	8.8	+/- 20%
Arsenic	CCV4090122X	20.0	20.2	-1.0	+/- 10%
Cadmium	CCV4090122X	20.0	20.2	-1.0	+/- 10%
Chromium	CCV4090122X	20.0	19.2	4.0	+/- 10%
Lead	CCV4090122X	20.0	20.4	-2.0	+/- 10%
Mercury	CCV5090222I	2.50	2.29	8.4	+/- 20%



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0829W1					
Total Alkalinity	ND	2.0	SM 2320B	8-29-22	8-29-22	
METHOD BLANK						
Laboratory ID:	MB0907W1					
Total Alkalinity	ND	2.0	SM 2320B	9-7-22	9-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-247-01							
	ORIG	DUP						
Total Alkalinity	112	112	NA	NA	NA	0	10	
DUPLICATE								
Laboratory ID:	08-279-01							
	ORIG	DUP						
Total Alkalinity	92.0	92.0	NA	NA	NA	0	10	
SPIKE BLANK								
Laboratory ID:	SB0829W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0907W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**DISSOLVED METHANE
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830W1					
Methane	ND	0.55	RSK 175	8-30-22	8-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	85	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	38.9	38.1	44.2	44.2	88	86	75-125	2	25	
<i>Surrogate:</i>										
1-Butene					80	78	50-150			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Quiet Cove Site
Work Order Number: 2208341

August 29, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 4 sample(s) on 8/23/2022 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



Date: 08/29/2022

CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site
Work Order: 2208341

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208341-001	MW-4_082322	08/23/2022 12:55 PM	08/23/2022 3:28 PM
2208341-002	MW-15_082322	08/23/2022 10:45 AM	08/23/2022 3:28 PM
2208341-003	MW-2A_082322	08/23/2022 9:05 AM	08/23/2022 3:28 PM
2208341-004	MW-3_082322	08/23/2022 9:35 AM	08/23/2022 3:28 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: OnSite Environmental Inc

Project: Quiet Cove Site

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: OnSite Environmental Inc

Project: Quiet Cove Site

Lab ID: 2208341-001

Collection Date: 8/23/2022 12:55:00 PM

Client Sample ID: MW-4_082322

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37541

Analyst: SS

Nitrate (as N)	1.05	1.00	DQ	mg/L	10	8/24/2022 9:28:00 PM
Sulfate	2.42	6.00	DJQ	mg/L	10	8/24/2022 9:28:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria (Nitrate: 89.1%, nominal 90-110; Sulfate: 88.8%, nominal 90-110).
Result may be proportionally low biased.

Ferrous Iron by SM3500-Fe B

Batch ID: R77737

Analyst: ALT

Ferrous Iron	58.8	12.5	D	mg/L	125	8/24/2022 7:55:00 AM
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Lab ID: 2208341-002

Collection Date: 8/23/2022 10:45:00 AM

Client Sample ID: MW-15_082322

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37541

Analyst: SS

Nitrate (as N)	ND	1.00	DQ	mg/L	10	8/24/2022 9:51:00 PM
Sulfate	ND	6.00	DQ	mg/L	10	8/24/2022 9:51:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria (Nitrate: 89.1%, nominal 90-110; Sulfate: 88.8%, nominal 90-110).
Result may be proportionally low biased.

Ferrous Iron by SM3500-Fe B

Batch ID: R77737

Analyst: ALT

Ferrous Iron	59.2	12.5	D	mg/L	125	8/24/2022 7:55:00 AM
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CLIENT: OnSite Environmental Inc

Project: Quiet Cove Site

Lab ID: 2208341-003

Collection Date: 8/23/2022 9:05:00 AM

Client Sample ID: MW-2A_082322

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37541

Analyst: SS

Nitrate (as N)	ND	1.00	DQ	mg/L	10	8/24/2022 10:15:00 PM
Sulfate	23.3	6.00	DQ	mg/L	10	8/24/2022 10:15:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria (Nitrate: 89.1%, nominal 90-110; Sulfate: 88.8%, nominal 90-110).
Result may be proportionally low biased.

Ferrous Iron by SM3500-Fe B

Batch ID: R77737

Analyst: ALT

Ferrous Iron	5.44	2.50	D	mg/L	25	8/24/2022 7:55:00 AM
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Lab ID: 2208341-004

Collection Date: 8/23/2022 9:35:00 AM

Client Sample ID: MW-3_082322

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37541

Analyst: SS

Nitrate (as N)	1.91	1.00	DQ	mg/L	10	8/24/2022 11:47:00 PM
Sulfate	40.3	6.00	DQ	mg/L	10	8/24/2022 11:47:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria (Nitrate: 89.1%, nominal 90-110; Sulfate: 88.8%, nominal 90-110).
Result may be proportionally low biased.

Ferrous Iron by SM3500-Fe B

Batch ID: R77737

Analyst: ALT

Ferrous Iron	0.578	0.100		mg/L	1	8/24/2022 7:55:00 AM
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Work Order: 2208341
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: MB-R77737	SampType: MBLK	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77737							
Client ID: MBLKW	Batch ID: R77737	Analysis Date: 8/24/2022	SeqNo: 1597231								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: LCS-R77737	SampType: LCS	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77737							
Client ID: LCSW	Batch ID: R77737	Analysis Date: 8/24/2022	SeqNo: 1597232								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.450	0.100	0.4000	0	113	85	115				

Sample ID: 2208341-004ADUP	SampType: DUP	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77737							
Client ID: MW-3_082322	Batch ID: R77737	Analysis Date: 8/24/2022	SeqNo: 1597244								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.601	0.100						0.5783	3.89	20	

Sample ID: 2208341-004AMS	SampType: MS	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77737							
Client ID: MW-3_082322	Batch ID: R77737	Analysis Date: 8/24/2022	SeqNo: 1597245								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.12	0.100	0.4000	0.5783	135	70	130				S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2208341-004AMSD	SampType: MSD	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77737							
Client ID: MW-3_082322	Batch ID: R77737	Analysis Date: 8/24/2022	SeqNo: 1597246								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.12	0.100	0.4000	0.5783	135	70	130	1.119	0	30	S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2208341
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: MB-37541	SampType: MBLK	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77815							
Client ID: MBLKW	Batch ID: 37541		Analysis Date: 8/24/2022	SeqNo: 1598554							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: LCS-37541	SampType: LCS	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77815							
Client ID: LCSW	Batch ID: 37541		Analysis Date: 8/24/2022	SeqNo: 1598555							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.674	0.100	0.7500	0	89.9	90	110				
Sulfate	3.63	0.600	3.750	0	96.7	90	110				

Sample ID: 2208341-003BDUP	SampType: DUP	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77815							
Client ID: MW-2A_082322	Batch ID: 37541		Analysis Date: 8/24/2022	SeqNo: 1598562							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	1.00						0	0	20	DQ
Sulfate	23.1	6.00						23.28	0.690	20	DQ

Sample ID: 2208341-003BMS	SampType: MS	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77815							
Client ID: MW-2A_082322	Batch ID: 37541		Analysis Date: 8/24/2022	SeqNo: 1598563							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	6.70	1.00	7.500	0	89.3	80	120				D
Sulfate	60.0	6.00	37.50	23.28	97.9	80	120				D

Sample ID: 2208341-003BMSD	SampType: MSD	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77815							
Client ID: MW-2A_082322	Batch ID: 37541		Analysis Date: 8/24/2022	SeqNo: 1598564							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	6.71	1.00	7.500	0	89.5	80	120	6.700	0.149	20	D
Sulfate	60.2	6.00	37.50	23.28	98.3	80	120	59.98	0.283	20	D

Work Order: 2208341
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2208341-003BMSD	SampType: MSD	Units: mg/L	Prep Date: 8/24/2022	RunNo: 77815							
Client ID: MW-2A_082322	Batch ID: 37541		Analysis Date: 8/24/2022	SeqNo: 1598564							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client Name: ONSITE	Work Order Number: 2208341
Logged by: Elisabeth Samoray	Date Received: 8/23/2022 3:28:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA

Samples were collected the same day and chilled.

8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	14.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/17/2022 Page: 1 of 1

Project Name: Quiet Cove Site

Project No: 5147-024-11

Collected by: Nathan Solomon

Location: Anacortes, WA

Report To (PM): David Baumeister

PM Email: dbaumeister@onsite-env.com

Laboratory Project No (Internal): 2208341
Special Remarks:
Subcontract work to Onsite Environmental.
Complete analyses within hold times.

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Comments
1 MW-4_082322	8.23.22	1255	Water	X	
2 MW-15_082322	8.23.22	1045	Water	X	
3 MW-2A_082322	8.23.22	0905	Water	X	
4 MW-3_082322	8.23.22	0935	Water	X	
5					
6					
7					
8					
9					
10					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp Se Sr Sn Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: 8/23/2022, 13:30

Received (Signature) *Warren Curlee* Print Name: Warren Curlee Date/Time: 8/23/22 15:28

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Quiet Cove Site
Work Order Number: 2208371

September 01, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 6 sample(s) on 8/25/2022 for the analyses presented in the following report.

Ferrous Iron by SM3500-Fe B
Ion Chromatography by EPA Method 300.0

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site
Work Order: 2208371

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208371-001	MW-1A-082322	08/24/2022 10:45 AM	08/25/2022 8:13 AM
2208371-002	MW-8-082322	08/24/2022 9:05 AM	08/25/2022 8:13 AM
2208371-003	MW-13-082322	08/24/2022 9:40 AM	08/25/2022 8:13 AM
2208371-004	MW-14-082322	08/24/2022 5:00 PM	08/25/2022 8:13 AM
2208371-005	DUP-1	08/24/2022 12:00 PM	08/25/2022 8:13 AM
2208371-006	Trip Blank	08/25/2022 8:13 AM	08/25/2022 8:13 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: Quiet Cove Site
Lab ID: 2208371-001
Client Sample ID: MW-1A-082322

Collection Date: 8/24/2022 10:45:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37643 Analyst: ALT

Nitrate (as N)	ND	0.100	H	mg/L	1	8/30/2022 10:40:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	8/25/2022 8:24:00 PM
Sulfate	8.28	0.600		mg/L	1	8/30/2022 10:40:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R77785 Analyst: SS

Ferrous Iron	2.67	2.50	D	mg/L	25	8/25/2022 8:50:00 AM
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Client: OnSite Environmental Inc

Collection Date: 8/24/2022 9:05:00 AM

Project: Quiet Cove Site

Lab ID: 2208371-002

Matrix: Water

Client Sample ID: MW-8-082322

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37643 Analyst: ALT

Nitrate (as N)	0.122	0.100	H	mg/L	1	8/30/2022 11:03:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	8/25/2022 8:47:00 PM
Sulfate	4.68	0.600		mg/L	1	8/30/2022 11:03:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R77785 Analyst: SS

Ferrous Iron	10.5	2.50	D	mg/L	25	8/25/2022 8:50:00 AM
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Client: OnSite Environmental Inc
Project: Quiet Cove Site
Lab ID: 2208371-003
Client Sample ID: MW-13-082322

Collection Date: 8/24/2022 9:40:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37643 Analyst: ALT

Nitrate (as N)	0.150	0.100	H	mg/L	1	8/30/2022 11:27:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	8/25/2022 9:10:00 PM
Sulfate	19.6	6.00	D	mg/L	10	8/30/2022 11:50:00 PM

Ferrous Iron by SM3500-Fe B

Batch ID: R77785 Analyst: SS

Ferrous Iron	3.41	2.50	D	mg/L	25	8/25/2022 8:50:00 AM
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Client: OnSite Environmental Inc

Collection Date: 8/24/2022 5:00:00 PM

Project: Quiet Cove Site

Lab ID: 2208371-004

Matrix: Water

Client Sample ID: MW-14-082322

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37569 Analyst: SS

Nitrate (as N)	ND	1.00	D	mg/L	10	8/25/2022 9:33:00 PM
Sulfate	23.0	6.00	D	mg/L	10	8/31/2022 12:36:00 AM

Ferrous Iron by SM3500-Fe B

Batch ID: R77785 Analyst: SS

Ferrous Iron	1.59	2.50	JD	mg/L	25	8/25/2022 8:50:00 AM
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Client: OnSite Environmental Inc

Collection Date: 8/24/2022 12:00:00 PM

Project: Quiet Cove Site

Lab ID: 2208371-005

Matrix: Water

Client Sample ID: DUP-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Ion Chromatography by EPA Method 300.0

Batch ID: 37643 Analyst: ALT

Nitrate (as N)	0.135	0.100	H	mg/L	1	8/31/2022 12:59:00 AM
Nitrate (as N)	ND	1.00	D	mg/L	10	8/25/2022 9:57:00 PM
Sulfate	8.25	0.600		mg/L	1	8/31/2022 12:59:00 AM

Ferrous Iron by SM3500-Fe B

Batch ID: R77785 Analyst: SS

Ferrous Iron	3.99	2.50	D	mg/L	25	8/25/2022 8:50:00 AM
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Work Order: 2208371
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: LCS-R77785	SampType: LCS	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77785					
Client ID: LCSW	Batch ID: R77785				Analysis Date: 8/25/2022	SeqNo: 1598113					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	0.378	0.100	0.4000	0	94.6	85	115				

Sample ID: MB-R77785	SampType: MBLK	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77785					
Client ID: MBLKW	Batch ID: R77785				Analysis Date: 8/25/2022	SeqNo: 1598114					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	0.100									

Sample ID: 2208371-005ADUP	SampType: DUP	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77785					
Client ID: DUP-1	Batch ID: R77785				Analysis Date: 8/25/2022	SeqNo: 1598126					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	ND	2.50						3.994	52.3	20	D

Sample ID: 2208371-005AMS	SampType: MS	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77785					
Client ID: DUP-1	Batch ID: R77785				Analysis Date: 8/25/2022	SeqNo: 1598127					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	16.7	2.50	10.00	3.994	128	70	130				D

Sample ID: 2208371-005AMSD	SampType: MSD	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77785					
Client ID: DUP-1	Batch ID: R77785				Analysis Date: 8/25/2022	SeqNo: 1598128					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	14.3	2.50	10.00	3.994	104	70	130	16.75	15.4	30	D

Work Order: 2208371
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ferrous Iron by SM3500-Fe B

Sample ID: 2208391-003ADUP	SampType: DUP	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77785							
Client ID: BATCH	Batch ID: R77785	Analysis Date: 8/25/2022	SeqNo: 1598134								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	1.68	0.500						1.660	0.993	20	D

Sample ID: 2208391-003AMS	SampType: MS	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77785							
Client ID: BATCH	Batch ID: R77785	Analysis Date: 8/25/2022	SeqNo: 1598135								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ferrous Iron	3.93	0.500	2.000	1.660	113	70	130				D

Work Order: 2208371
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: LCS-37569	SampType: LCS	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77818							
Client ID: LCSW	Batch ID: 37569		Analysis Date: 8/25/2022	SeqNo: 1598642							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.695	0.100	0.7500	0	92.7	90	110				

Sample ID: MB-37569	SampType: MBLK	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77818							
Client ID: MBLKW	Batch ID: 37569		Analysis Date: 8/25/2022	SeqNo: 1598644							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									

Sample ID: 2208377-001BDUP	SampType: DUP	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77818							
Client ID: BATCH	Batch ID: 37569		Analysis Date: 8/25/2022	SeqNo: 1598653							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100						0		20	

Sample ID: 2208377-001BMS	SampType: MS	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77818							
Client ID: BATCH	Batch ID: 37569		Analysis Date: 8/25/2022	SeqNo: 1598654							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.611	0.100	0.7500	0.09700	68.5	80	120				S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2208377-001BMSD	SampType: MSD	Units: mg/L	Prep Date: 8/25/2022	RunNo: 77818							
Client ID: BATCH	Batch ID: 37569		Analysis Date: 8/26/2022	SeqNo: 1598655							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.634	0.100	0.7500	0.09700	71.6	80	120	0.6110	3.69	20	S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2208371
 CLIENT: OnSite Environmental Inc
 Project: Quiet Cove Site

QC SUMMARY REPORT
 Ion Chromatography by EPA Method 300.0

Sample ID: 2208365-002BDUP	SampType: DUP	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77818					
Client ID: BATCH	Batch ID: 37569				Analysis Date: 8/26/2022	SeqNo: 1598668					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	12.5	0.500						12.54	0.160	20	DEH

Sample ID: 2208365-002BMS	SampType: MS	Units: mg/L			Prep Date: 8/25/2022	RunNo: 77818					
Client ID: BATCH	Batch ID: 37569				Analysis Date: 8/26/2022	SeqNo: 1598669					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	15.8	0.500	3.750	12.54	87.1	80	120				DE

Sample ID: LCS-37643	SampType: LCS	Units: mg/L			Prep Date: 8/30/2022	RunNo: 77938					
Client ID: LCSW	Batch ID: 37643				Analysis Date: 8/30/2022	SeqNo: 1601313					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	0.714	0.100	0.7500	0	95.2	90	110				
Sulfate	3.56	0.600	3.750	0	94.9	90	110				

Sample ID: MB-37643	SampType: MBLK	Units: mg/L			Prep Date: 8/30/2022	RunNo: 77938					
Client ID: MBLKW	Batch ID: 37643				Analysis Date: 8/30/2022	SeqNo: 1601315					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: 2208388-001BDUP	SampType: DUP	Units: mg/L			Prep Date: 8/30/2022	RunNo: 77938					
Client ID: BATCH	Batch ID: 37643				Analysis Date: 8/31/2022	SeqNo: 1601327					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	79.8	5.00						80.25	0.500	20	DH
Sulfate	358	30.0						367.6	2.79	20	D

Work Order: 2208371
CLIENT: OnSite Environmental Inc
Project: Quiet Cove Site

QC SUMMARY REPORT
Ion Chromatography by EPA Method 300.0

Sample ID: 2208388-001BMS		SampType: MS		Units: mg/L		Prep Date: 8/30/2022		RunNo: 77938			
Client ID: BATCH		Batch ID: 37643				Analysis Date: 8/31/2022		SeqNo: 1601328			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	120	5.00	37.50	80.25	105	80	120				DH
Sulfate	545	30.0	187.5	367.6	94.5	80	120				D

Sample ID: 2208388-001BMSD		SampType: MSD		Units: mg/L		Prep Date: 8/30/2022		RunNo: 77938			
Client ID: BATCH		Batch ID: 37643				Analysis Date: 8/31/2022		SeqNo: 1601329			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate (as N)	122	5.00	37.50	80.25	111	80	120	119.8	1.61	20	DH
Sulfate	553	30.0	187.5	367.6	98.6	80	120	544.8	1.43	20	D

Client Name: ONSITE	Work Order Number: 2208371
Logged by: Clare Griggs	Date Received: 8/25/2022 8:13:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Brian Tracy"/>	Date:	<input type="text" value="8/25/2022"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirming sample labeling discrepancy."/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/24/2022 Page: 1 of 1

Laboratory Project No (internal): **2208371**

Project Name: Quiet Cove Site
Project No: 5147-024-11

Special Remarks:
Subcontract work to Onsite Environmental
Complete analyses within hold times

Client: OnSite Environmental
Address: 14648 NE 95th St

Collected by: Nathan Solomon

City, State, Zip: Redmond, WA 98052

Location: Anacortes, WA

Telephone: 425.883.3881

Report To (PM): David Baumeister

Sample Disposal: Return to client Disposal by lab (after 30 days)

PM Email: dbaumeister@onsite-env.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Comments
1 MW-1A_082322	8.24.22	1045	Water	X	
2 MW-8_082322	8.24.22	0905	Water	X	
3 MW-13_082322	8.24.22	0940	Water	X	
4 MW-14_082322	8.24.22	1700	Water	X	
5 DUP-1	8.24.22	1200	Water	X	
6					
7					
8					
9					
10					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SI = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Ni Pb Sb Se Sr Sn Ti Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the client named above, that I have verified the client's agreement to each of the terms on the front and backside of this Agreement.

Requisitioned (Signature) *Brian Tracy* Print Name: Brian Tracy Date/Time: 8.24.22 / 1730
 Received (Signature) *Justine Logye* Print Name: Justine Logye Date/Time: 8/25/22 8:23



14648 NE 95th Street, Redmond, WA 98052
 Telephone: 425.883.3881

Company: GeoEngineers, Inc.
 Project No.: 05147-024-11
 Project Name: Quiet Cove - Post Interim Action
 Project Manager: Brian Tracy

CHAIN OF CUSTODY

Turnaround Requested:
 1 Day
 2 Day
 3 Day
 Standard

Laboratory No. **08-268**

Requested Analyses

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-Gx	NWTPH-Dx (with and without silica gel cleanup)	Volatiles EPA 8260D *	Total MTCA Metals EPA 200.8/7470A	Dissolved MTCA Metals EPA 200.8/7470A**	Nitrate and Sulfate EPA 300.0 ***	Dissolved Methane RSK 175	Dissolved Manganese EPA 6010D**	Ferrous Iron SM 3500B ***	Alkalinity
1	MW-4_082322	8/23/22	1255	Water	14	X	X	X	X	X	X	X	X	X	X
2	MW-15_082322	8/23/22	1045	Water	14	X	X	X	X	X	X	X	X	X	X
3	MW-2A_082322	8/23/22	0905	Water	14	X	X	X	X	X	X	X	X	X	X
4	MW-3_082322	8/23/22	0935	Water	14	X	X	X	X	X	X	X	X	X	X
5	MW-1A_082422	8/24/22	1045	Water	14	X	X	X	X	X	X	X	X	X	X
6	MW-8_082422	8/24/22	0905	Water	14	X	X	X	X	X	X	X	X	X	X
7	MW-13_082422	8/24/22	0940	Water	14	X	X	X	X	X	X	X	X	X	X
8	MW-14_082422	8/24/22	1700	Water	14	X	X	X	X	X	X	X	X	X	X
9	DUP-1	8/24/22	1200	Water	14	X	X	X	X	X	X	X	X	X	X
10	Trip Blank				4										

Relinquished by _____ Date _____ Received by *Nicole Espinoza* Date 8/25/22
 Firm _____ Time _____ Firm OS&S Time 0900

Comments:
 * - BTEX, EDB, EDC, MTBE, n-hexane
 ** - field filtered
 *** - sent directly to subcontract lab Fremont Analytical. Analyses to be completed within hold times.

Relinquished by _____ Date _____ Received by _____ Date _____
 Firm _____ Time _____ Firm _____ Time _____

Sample/Cooler Receipt and Acceptance Checklist

Client: BES

Client Project Name/Number: OSHT-024-0

Initiated by: NB

OnSite Project Number: 08-268

Date Initiated: 8/25/22

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature: <u>3.6, 2.4, 5.1</u>
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup
				<input type="radio"/> Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A

Explain any discrepancies:

1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed

RAW DATA

- Gasoline Range Organics NWTPH-Gx
- Diesel and Heavy Oil Range Organics NWTPH-Dx
- Volatiles Organics EPA 8260D
- Total Metals EPA 200.8/7470A
- Dissolved Metals EPA 6010D/200.8/7470A
- Dissolved Methane RSK 175
- Alkalinity SM 2320B

Gasoline Range Organics
NWTPH-Gx Data

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829005.D Vial: 5
 Acq On : 29 Aug 2022 14:10 Operator:
 Sample : 08-268-01h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 29 14:30 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.04	6568548	32.785 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	9638694	36.453 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.13	10434705	0.079 PPM
3) H GASOLINE #2	14.74	7147683	0.066 PPM
4) MTBE #2 (5-10-22)	0.00	0	N.D. PPB
5) BENZENE #2 (5-10-22)	8.82	20481	0.058 PPB
7) TOLUENE #2 (5-10-22)	11.32	75997	0.240 PPB
8) ETHYLBENZENE #2 (5-10-22)	13.37	21997	0.114 PPB
9) m,p-XYLENE #2 (5-10-22)	13.61	93717	0.197 PPB
10) o-XYLENE #2 (5-10-22)	14.13	43399	0.137 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829005.D
Acq On : 29 Aug 2022 14:10
Sample : 08-268-01h
Misc :

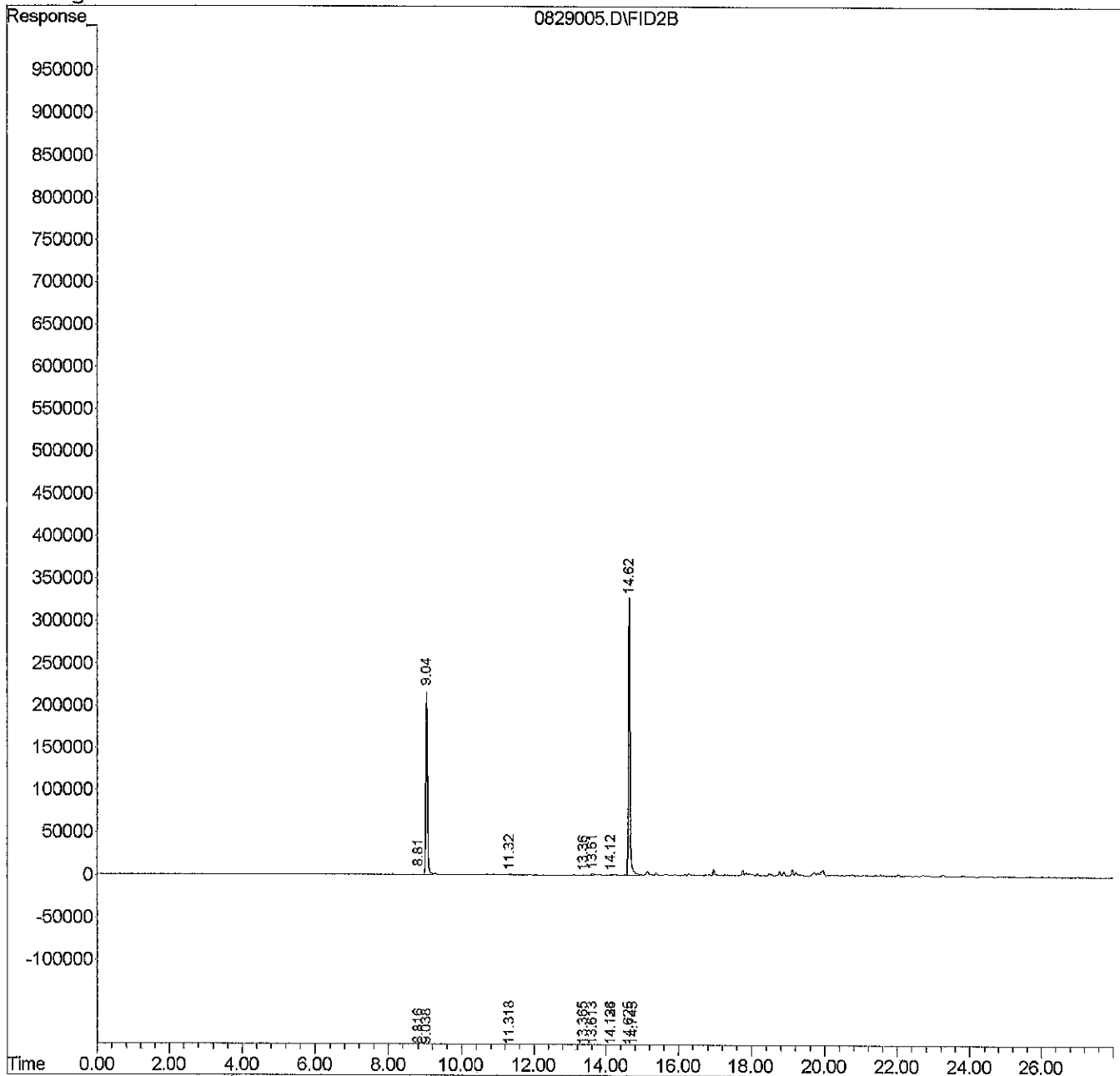
Vial: 5
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 29 14:30 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829007.D Vial: 7
 Acq On : 29 Aug 2022 15:25 Operator:
 Sample : 08-268-02h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 30 10:33 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.05	6570831	32.796 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	9205396	34.811 PPB m <i>Ba</i>
Target Compounds			
2) H Entire GAS Envelope #2	14.13	23339848	0.210 PPM
3) H GASOLINE #2	14.74	19450444	0.226 PPM
4) MTBE #2 (5-10-22)	6.51	1566	0.128 PPB
5) BENZENE #2 (5-10-22)	8.84	10684	0.020 PPB
7) TOLUENE #2 (5-10-22)	11.36	25641	0.036 PPB
8) ETHYLBENZENE #2 (5-10-22)	0.00	0	N.D. PPB
9) m,p-XYLENE #2 (5-10-22)	13.70	98968	0.217 PPB
10) o-XYLENE #2 (5-10-22)	14.14	35849	0.103 PPB

9-2-22

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829007.D
Acq On : 29 Aug 2022 15:25
Sample : 08-268-02h
Misc :

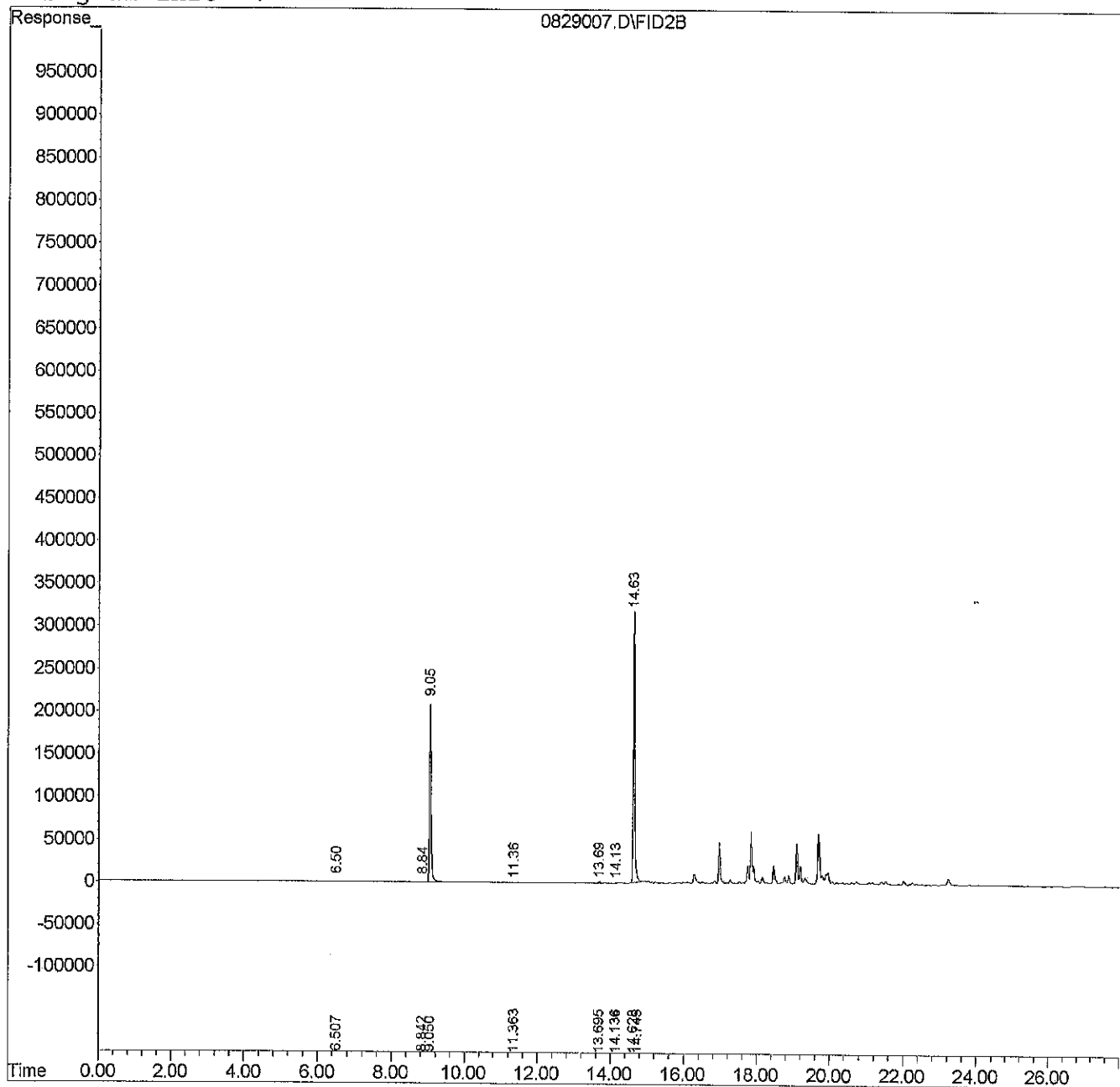
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 30 10:33 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829009.D Vial: 9
 Acq On : 29 Aug 2022 16:26 Operator:
 Sample : 08-268-03h Inst : Hope
 Misc : Multiplr: 1.00
Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 29 16:53 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.05	6565776	32.771 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.62	9373764	35.449 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.13	7269853	0.047 PPM
3) H GASOLINE #2	14.74	5457253	0.044 PPM
4) MTBE #2 (5-10-22)	6.49	4334	0.203 PPB
5) BENZENE #2 (5-10-22)	8.84	6859	0.005 PPB
7) TOLUENE #2 (5-10-22)	11.37	30867	0.057 PPB
8) ETHYLBENZENE #2 (5-10-22)	0.00	0	N.D. PPB ⁹⁻²
9) m,p-XYLENE #2 (5-10-22)	13.61	68113	0.099 PPB
10) o-XYLENE #2 (5-10-22)	0.00	0	N.D. PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829009.D
Acq On : 29 Aug 2022 16:26
Sample : 08-268-03h
Misc :

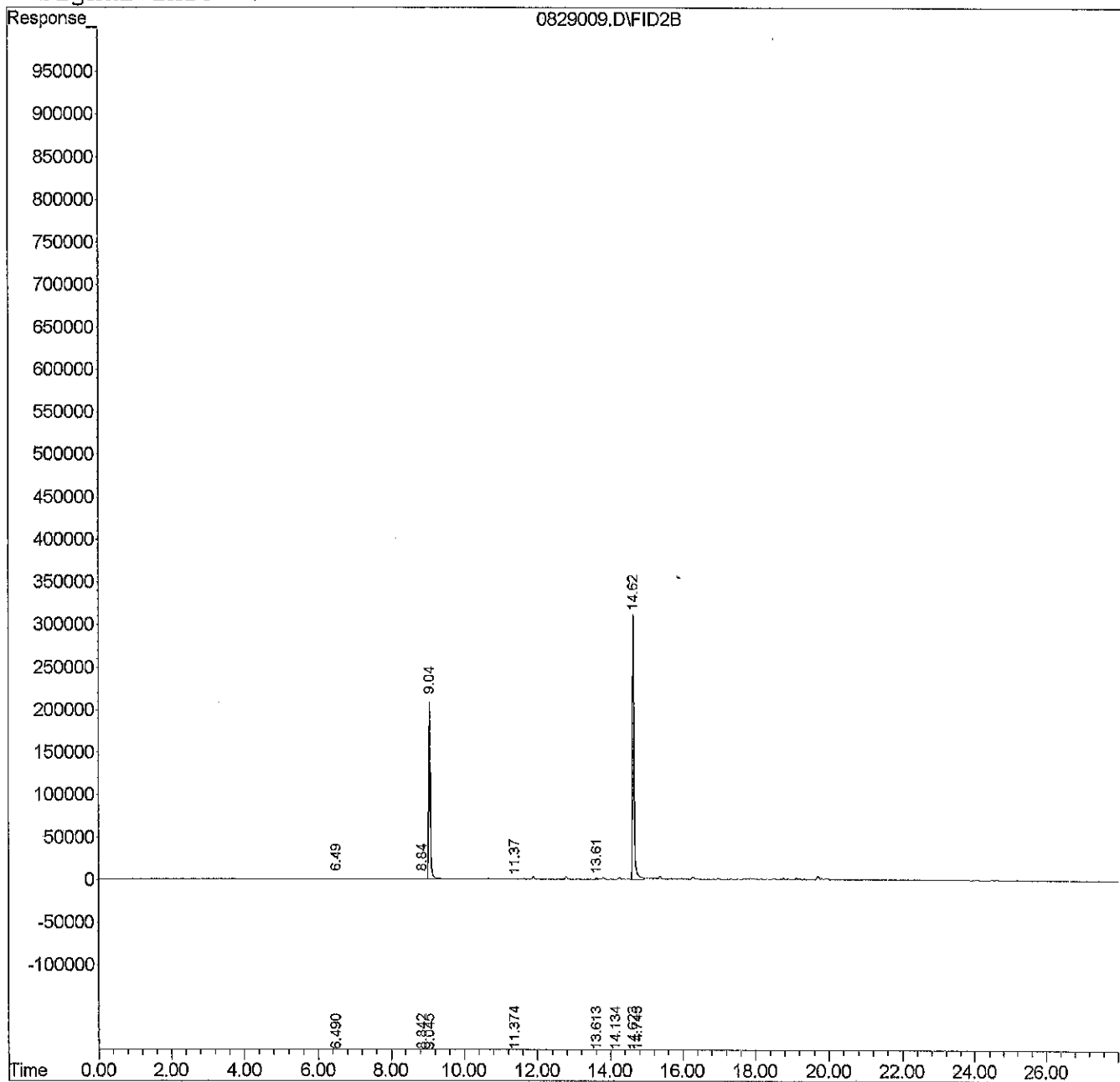
Vial: 9
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 29 16:53 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829012.D\FID1A.CH Vial: 12
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829012.D\FID2B.CH
 Acq On : 29 Aug 2022 20:42 Operator:
 Sample : 08-268-04h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 21:03 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.84	1924467	40.037 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.17	1029449	38.910 PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.84	1626988	36.105 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.17	2049923	35.807 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	1443430	0.006 PPM
2) H Entire GAS Envelope	12.16	1894554	0.008 PPM
3) H GASOLINE	13.46	886665	0.023 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	529556	0.055 PPM
8) H entire GAS envelope #2	12.16	673091	0.011 PPM
9) H GASOLINE #2	13.46	467283	0.014 PPM
10) MTBE #2 (07-01-22)	4.57	2301	0.180 PPB
11) BENZENE #2 (07-01-22)	6.61	4661	0.033 PPB
13) TOLUENE #2 (07-01-22)	8.99	9655	0.018 PPB
14) ETHYLBENZENE #2 (07-01-22)	10.95	5603	0.095 PPB
15) m,p-XYLENE #2 (07-01-22)	11.20	14173	0.374 PPB
16) o-XYLENE #2 (07-01-22)	11.69	7933	0.301 PPB

Quantitation Report (Not Reviewed)

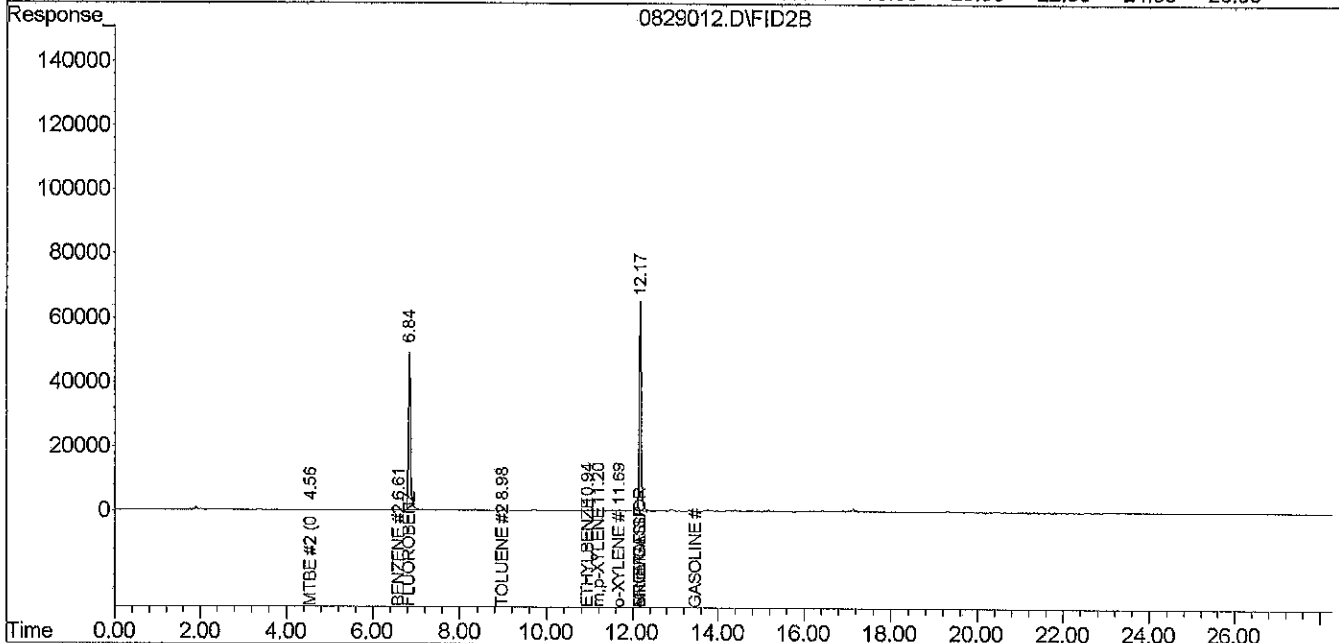
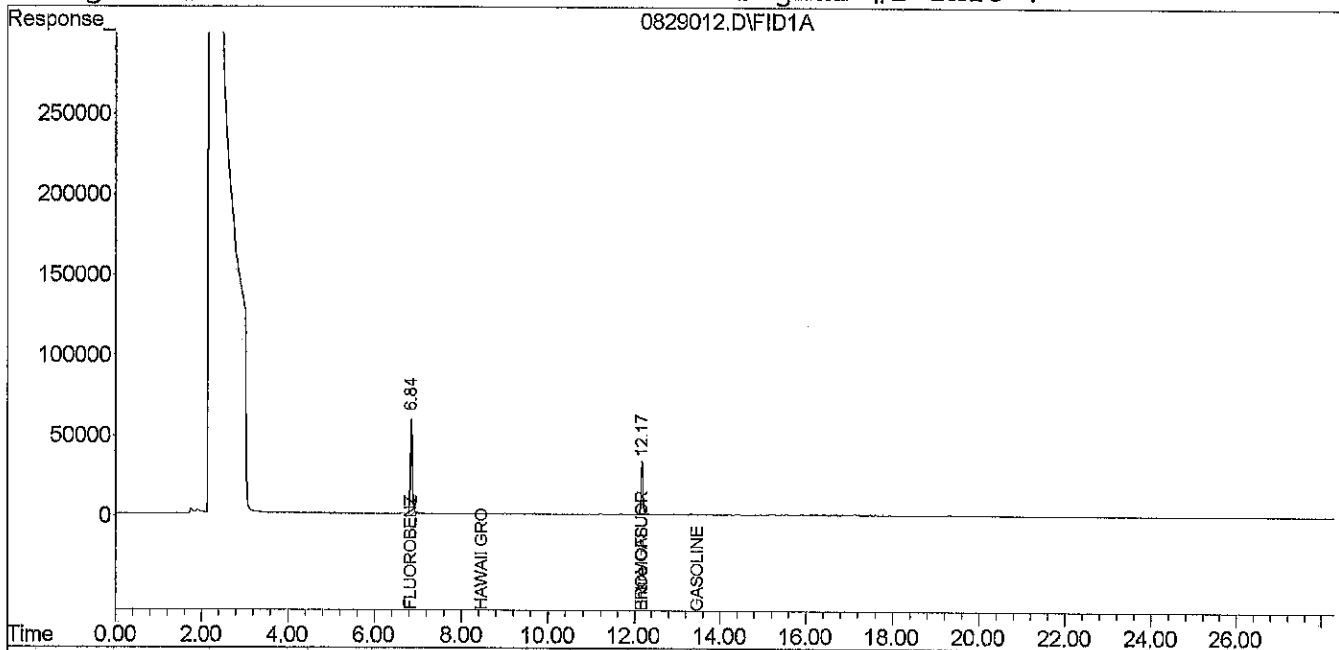
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829012.D\FID1A.CH Vial: 12
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829012.D\FID2B.CH
 Acq On : 29 Aug 2022 20:42 Operator:
 Sample : 08-268-04h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 21:03 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829013.D\FID1A.CH Vial: 13
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829013.D\FID2B.CH
 Acq On : 29 Aug 2022 21:13 Operator:
 Sample : 08-268-05h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 21:36 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.84	1842699	38.340 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.17	989746	37.419 PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.84	1605531	35.629 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.17	2008534	35.083 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	1369307	0.004 PPM
2) H Entire GAS Envelope	12.16	1744172	0.004 PPM
3) H GASOLINE	13.46	733321	0.016 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	407826	0.050 PPM
8) H entire GAS envelope #2	12.16	530425	0.005 PPM
9) H GASOLINE #2	13.46	371473	0.009 PPM
10) MTBE #2 (07-01-22)	4.58	2037	0.172 PPB
11) BENZENE #2 (07-01-22)	6.61	4338	0.028 PPB
13) TOLUENE #2 (07-01-22)	8.99	8941	0.007 PPB
14) ETHYLBENZENE #2 (07-01-22)	10.95	3899	0.065 PPB
15) m,p-XYLENE #2 (07-01-22)	11.21	15344	0.392 PPB
16) o-XYLENE #2 (07-01-22)	11.69	5922	0.266 PPB

Quantitation Report (Not Reviewed)

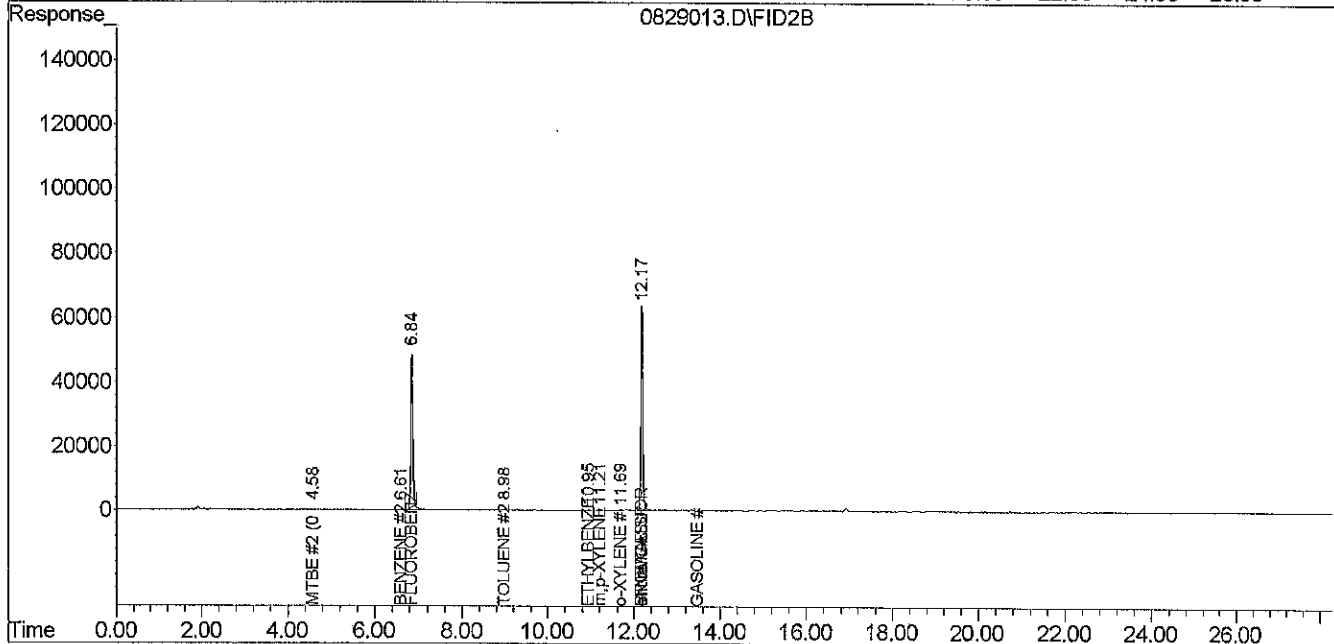
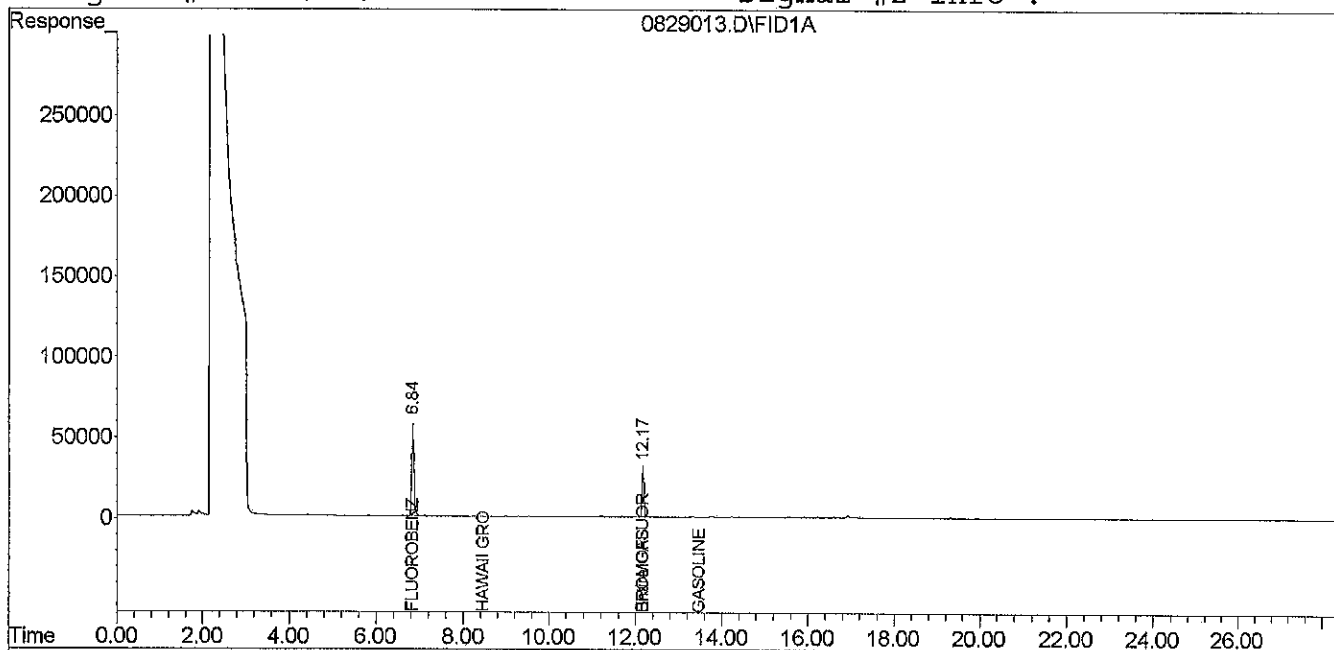
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829013.D\FID1A.CH Vial: 13
Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829013.D\FID2B.CH
Acq On : 29 Aug 2022 21:13 Operator:
Sample : 08-268-05h Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 21:36 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Mon Aug 29 13:09:52 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220825G.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829014.D\FID1A.CH Vial: 14
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829014.D\FID2B.CH
 Acq On : 29 Aug 2022 21:43 Operator:
 Sample : 08-268-06h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 30 10:54 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.84	1962049	40.817 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.17	1224832	46.252 PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.84	1716954	38.100 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.17	2062681	36.029 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	22102185	0.498 PPM
2) H Entire GAS Envelope	12.16	23118907	0.482 PPM
3) H GASOLINE	13.46	8436782	0.363 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	4865433	0.245 PPM
8) H entire GAS envelope #2	12.16	9018856	0.355 PPM
9) H GASOLINE #2	13.46	5467376	0.294 PPM
10) MTBE #2 (07-01-22)	4.49	143112	4.805 PPB
11) BENZENE #2 (07-01-22)	6.60	809676	12.200 PPB
13) TOLUENE #2 (07-01-22)	8.98	52704	0.722 PPB
14) ETHYLBENZENE #2 (07-01-22)	10.94	22335	0.392 PPB
15) m,p-XYLENE #2 (07-01-22)	11.19	110311	1.822 PPB
16) o-XYLENE #2 (07-01-22)	11.70	15310	0.429 PPB

m BU
2-2

Quantitation Report (QT Reviewed)

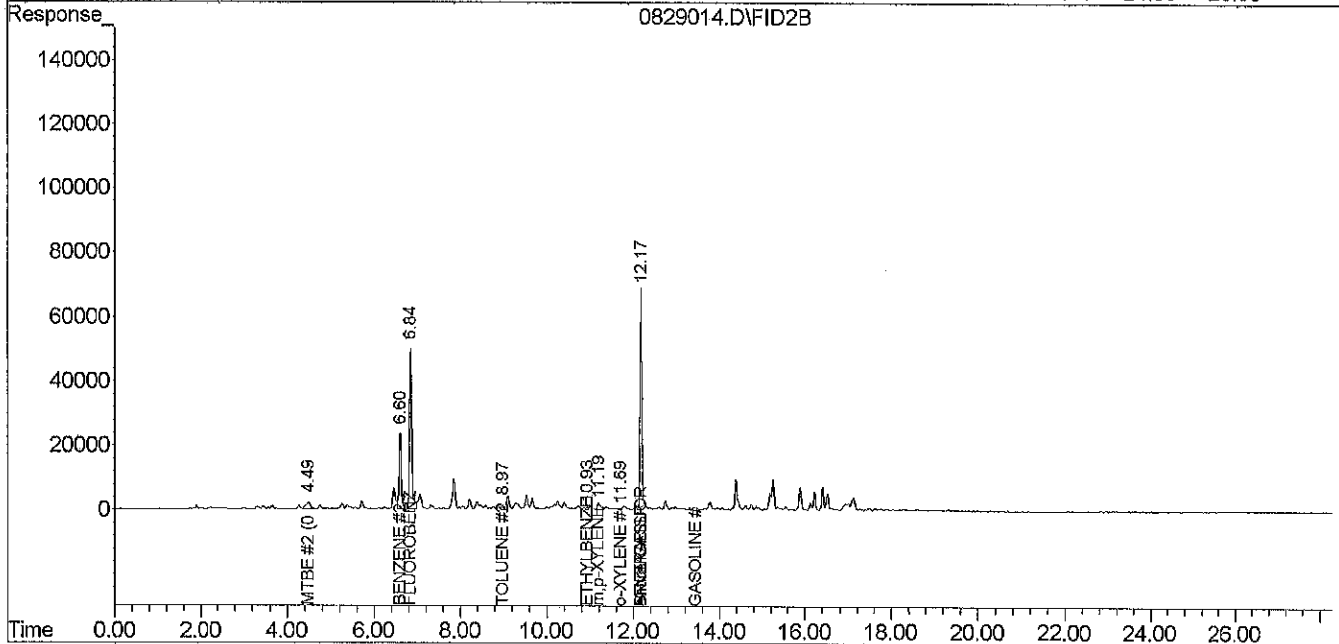
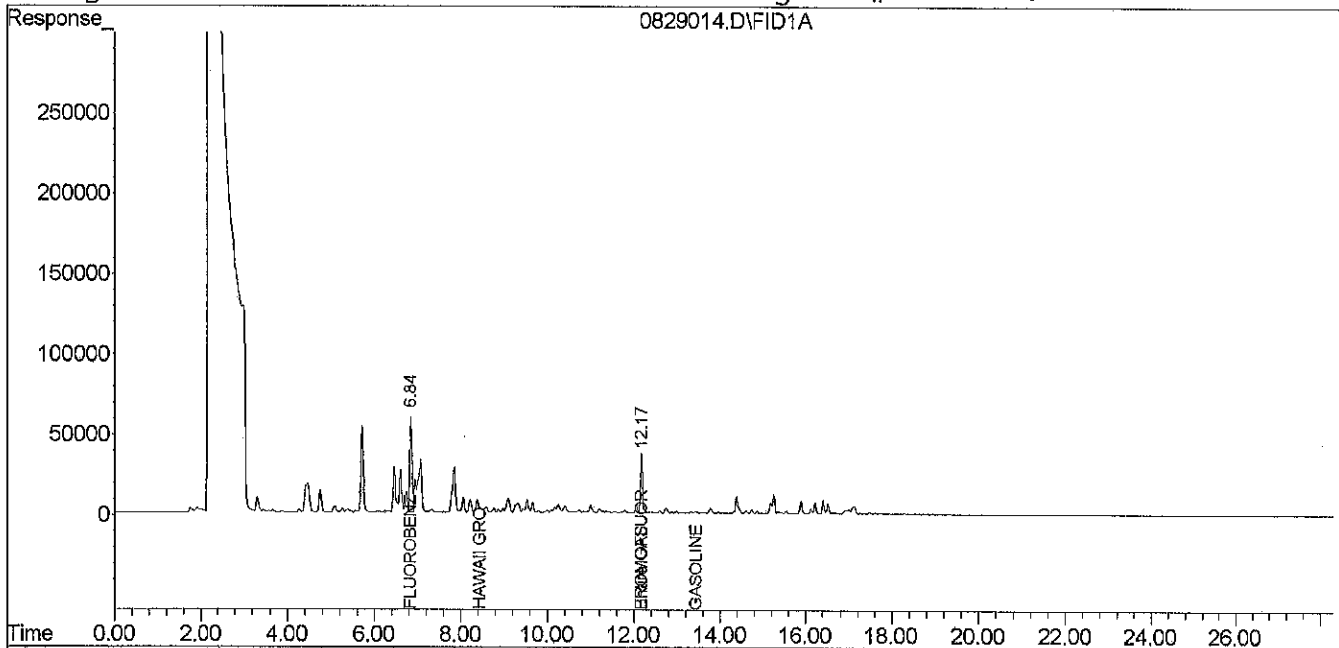
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829014.D\FID1A.CH Vial: 14
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829014.D\FID2B.CH
 Acq On : 29 Aug 2022 21:43 Operator:
 Sample : 08-268-06h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 30 10:54 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829015.D\FID1A.CH Vial: 15
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829015.D\FID2B.CH
 Acq On : 29 Aug 2022 22:28 Operator:
 Sample : 08-268-07h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 22:43 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.84	1908093	39.697 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.17	984569	37.224 PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.84	1607208	35.666 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.17	1993261	34.817 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	3008188	0.043 PPM
2) H Entire GAS Envelope	12.16	3461109	0.043 PPM
3) H GASOLINE	13.46	1367621	0.045 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	664614	0.061 PPM
8) H entire GAS envelope #2	12.16	1494514	0.045 PPM
9) H GASOLINE #2	13.46	729746	0.029 PPM
10) MTBE #2 (07-01-22)	0.00	0	N.D. PPB
11) BENZENE #2 (07-01-22)	6.60	239126	3.576 PPB
13) TOLUENE #2 (07-01-22)	8.99	11364	0.046 PPB
14) ETHYLBENZENE #2 (07-01-22)	10.95	6684	0.114 PPB
15) m,p-XYLENE #2 (07-01-22)	11.21	31007	0.628 PPB
16) o-XYLENE #2 (07-01-22)	11.70	7755	0.298 PPB

Quantitation Report (Not Reviewed)

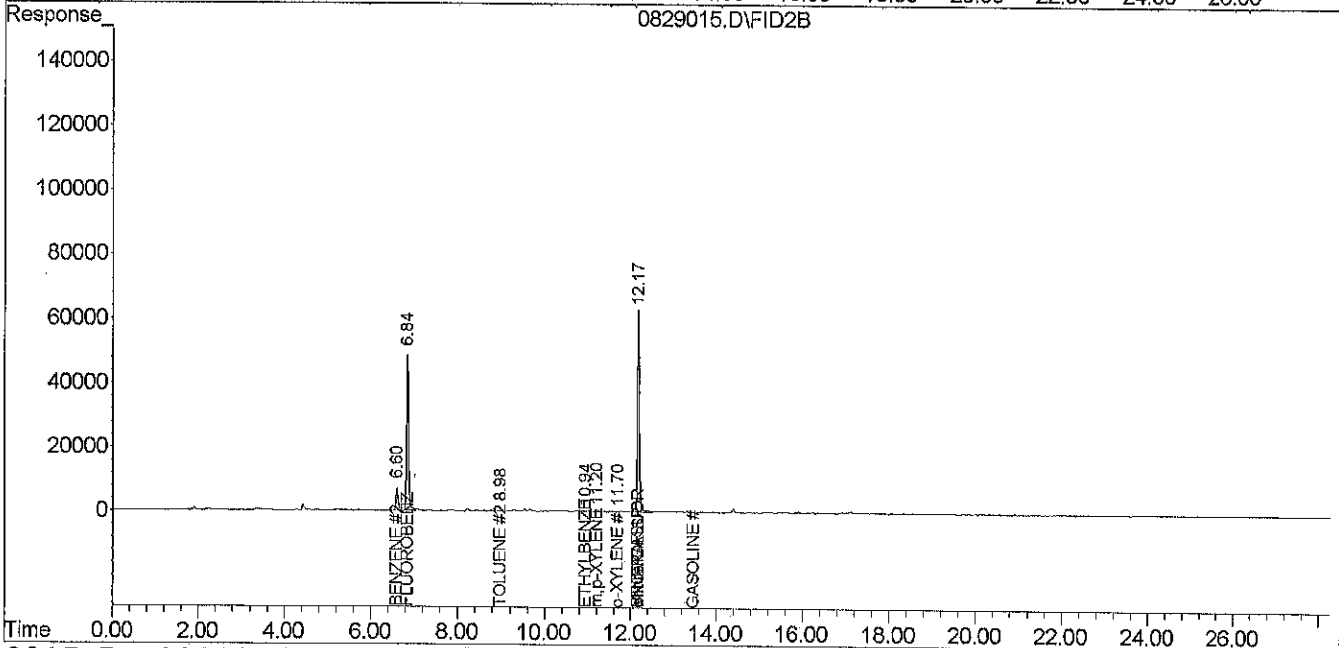
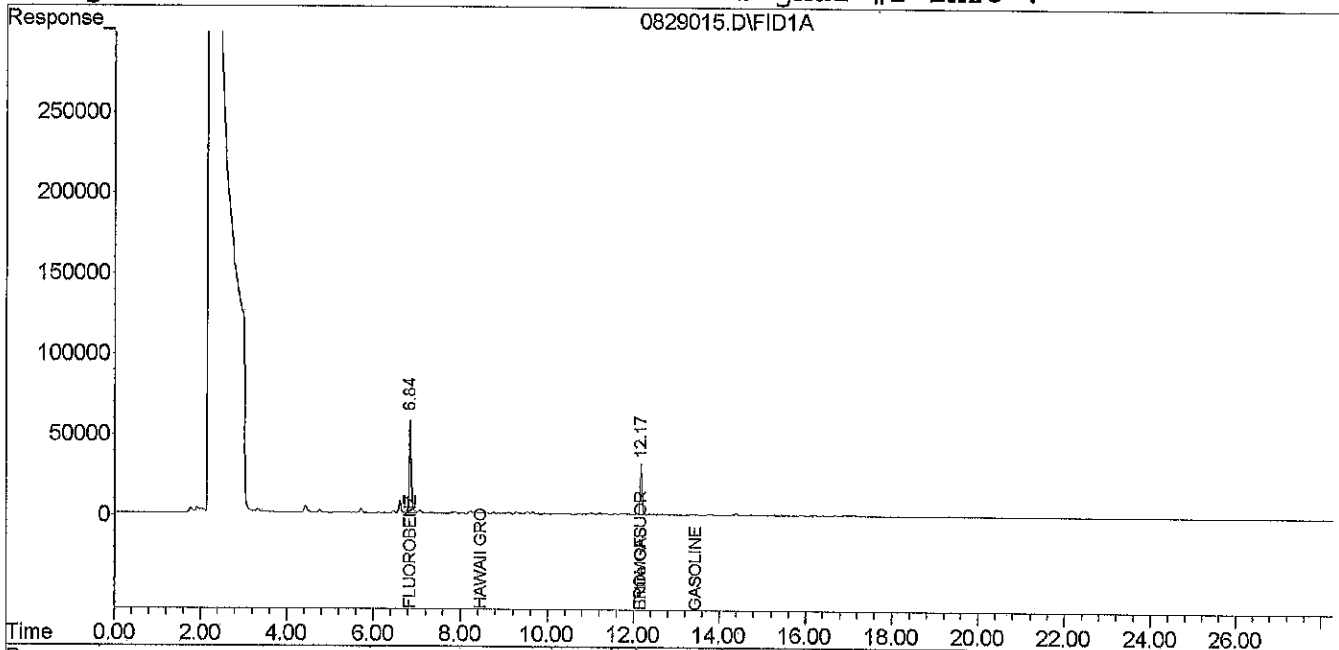
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829015.D\FID1A.CH Vial: 15
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829015.D\FID2B.CH
 Acq On : 29 Aug 2022 22:28 Operator:
 Sample : 08-268-07h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 22:43 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829016.D\FID1A.CH Vial: 16
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829016.D\FID2B.CH
 Acq On : 29 Aug 2022 22:58 Operator:
 Sample : 08-268-08h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 23:17 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
4) S FLUOROBENZENE (07-01-22)	6.84	1936658	40.290	PPB
5) S BROMOFLUOROBENZENE (07-01-	12.17	1037323	39.206	PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.84	1629482	36.160	PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.17	2061422	36.007	PPB
Target Compounds				
1) H HAWAII GRO C-5-C12 RANGES	8.46	759807	N.D.	PPM
2) H Entire GAS Envelope	12.16	1046061	N.D.	PPM
3) H GASOLINE	13.46	233304	N.D.	PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	124976	0.038	PPM
8) H entire GAS envelope #2	12.16	339013	N.D.	PPM
9) H GASOLINE #2	13.46	97301	N.D.	PPM
10) MTBE #2 (07-01-22)	4.58	2147	0.175	PPB
11) BENZENE #2 (07-01-22)	6.61	4847	0.035	PPB
13) TOLUENE #2 (07-01-22)	8.99	8228	N.D.	PPB
14) ETHYLBENZENE #2 (07-01-22)	10.95	3914	0.065	PPB
15) m,p-XYLENE #2 (07-01-22)	11.21	6567	0.260	PPB
16) o-XYLENE #2 (07-01-22)	11.69	4077	0.234	PPB

Quantitation Report (Not Reviewed)

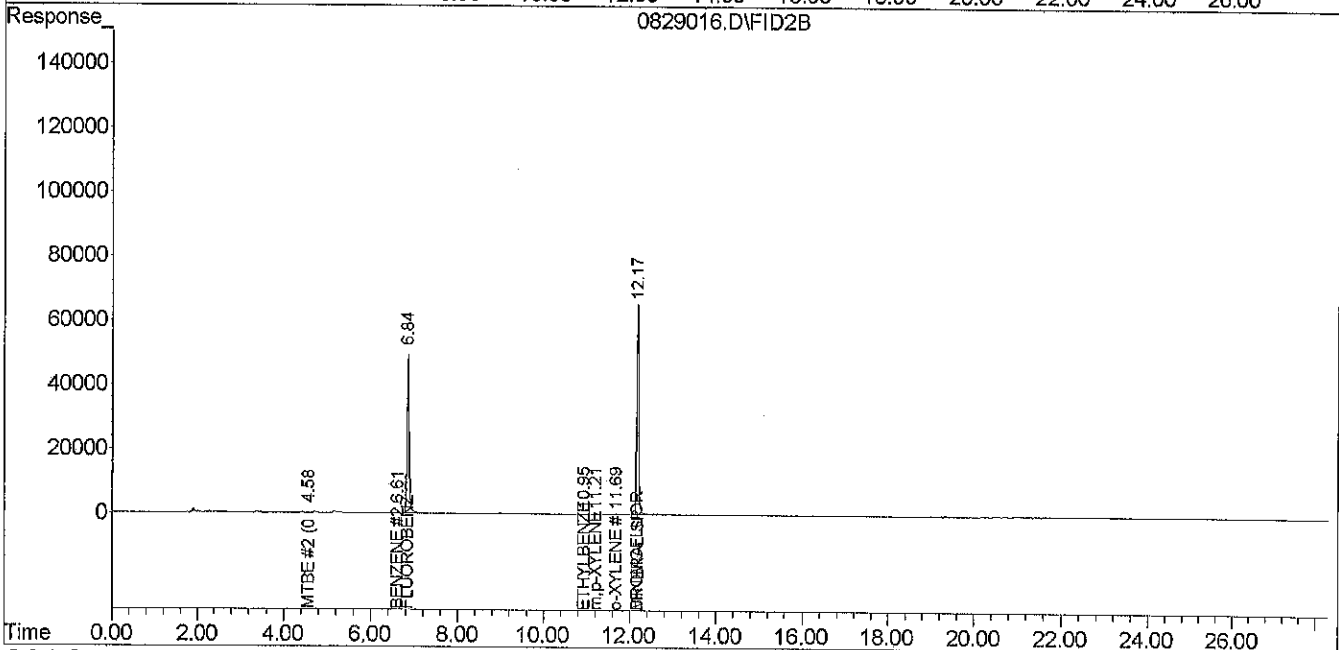
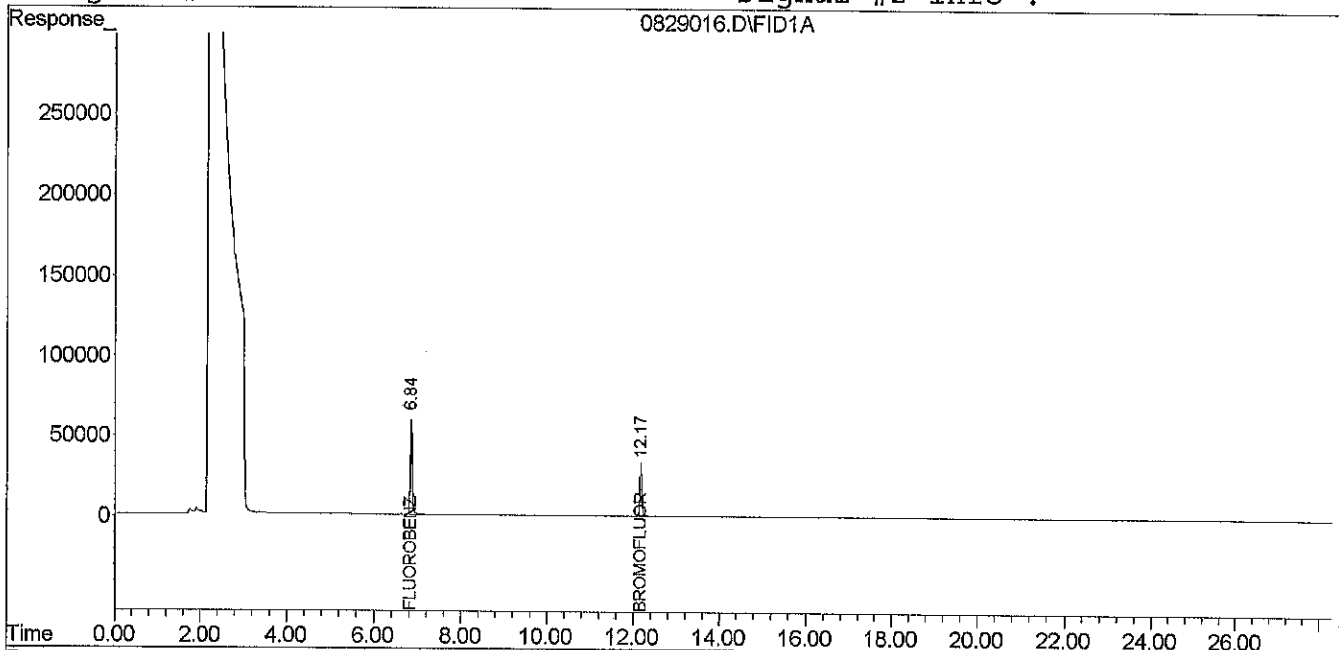
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829016.D\FID1A.CH Vial: 16
Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829016.D\FID2B.CH
Acq On : 29 Aug 2022 22:58 Operator:
Sample : 08-268-08h Inst : Daryl
Misc : Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 23:17 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Mon Aug 29 13:09:52 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220825G.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829017.D\FID1A.CH Vial: 17
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829017.D\FID2B.CH
 Acq On : 29 Aug 2022 23:29 Operator:
 Sample : 08-268-09h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 23:50 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.84	1857872	38.655 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.17	1012561	38.276 PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.84	1607865	35.681 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.17	2038156	35.601 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	1199713	N.D. PPM
2) H Entire GAS Envelope	12.16	1527758	N.D. PPM
3) H GASOLINE	13.46	615166	0.011 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	349534	0.047 PPM
8) H entire GAS envelope #2	12.16	451883	0.002 PPM
9) H GASOLINE #2	13.46	316825	0.006 PPM
10) MTBE #2 (07-01-22)	4.57	3987	0.236 PPB
11) BENZENE #2 (07-01-22)	6.61	5045	0.038 PPB
13) TOLUENE #2 (07-01-22)	8.99	7286	N.D. PPB
14) ETHYLBENZENE #2 (07-01-22)	10.95	2727	0.044 PPB
15) m,p-XYLENE #2 (07-01-22)	11.21	12078	0.343 PPB
16) o-XYLENE #2 (07-01-22)	11.69	4517	0.241 PPB

Quantitation Report (Not Reviewed)

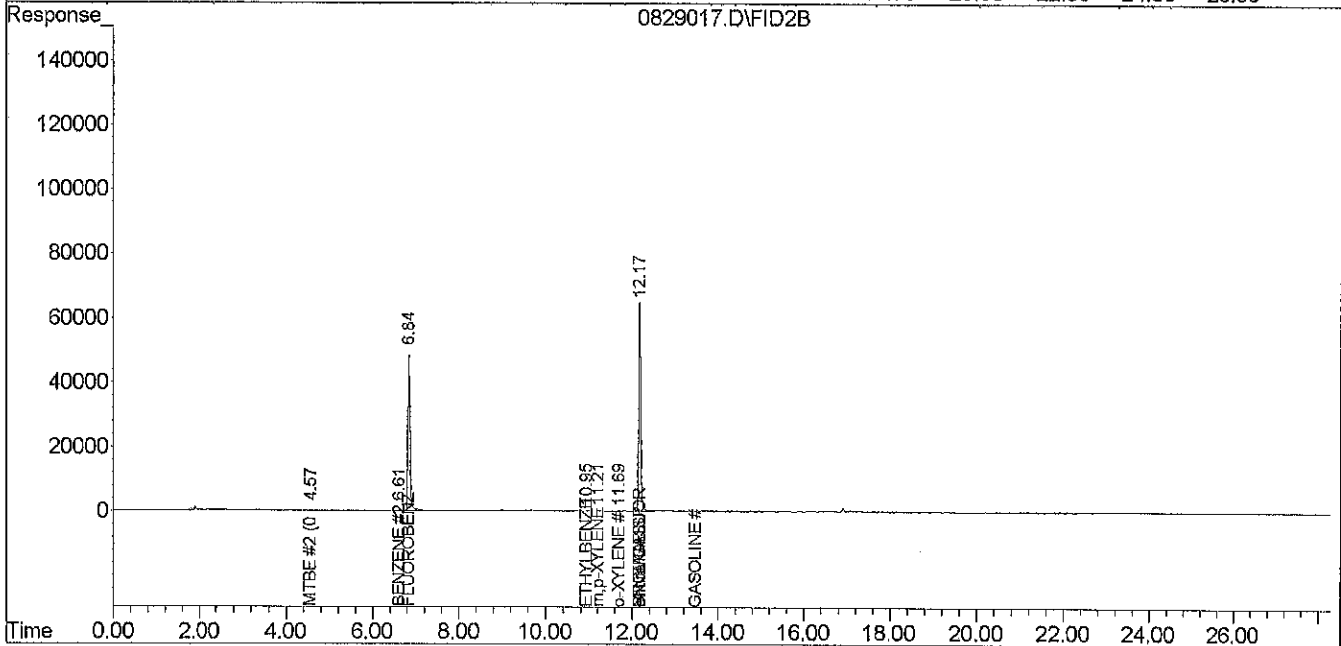
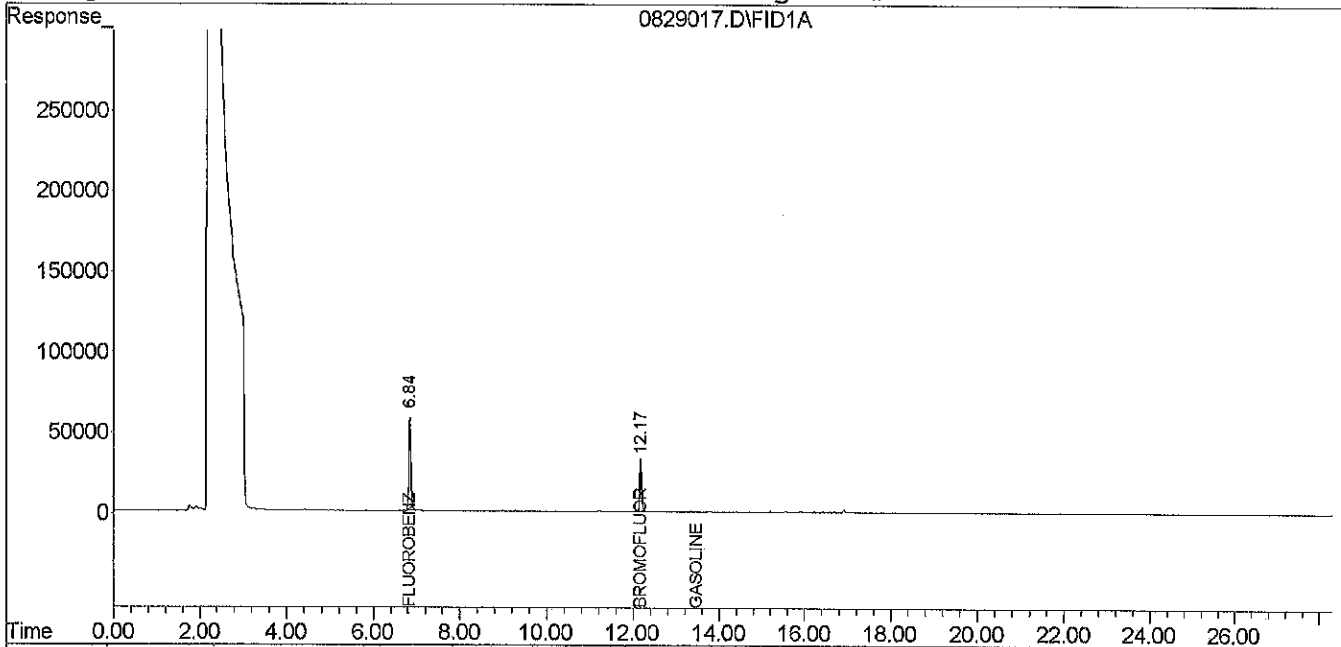
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829017.D\FID1A.CH Vial: 17
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829017.D\FID2B.CH
 Acq On : 29 Aug 2022 23:29 Operator:
 Sample : 08-268-09h Inst : Daryl
 Misc : Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 29 23:50 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829003.D Vial: 3
 Acq On : 29 Aug 2022 11:50 Operator:
 Sample : MB0829W1 Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 29 12:15 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.05	6514906	32.516 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.62	9506348	35.951 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.13	4711661	0.021 PPM
3) H GASOLINE #2	14.74	2368408	0.004 PPM
4) MTBE #2 (5-10-22)	6.59	4794	0.216 PPB
5) BENZENE #2 (5-10-22)	8.84	43596	0.149 PPB
7) TOLUENE #2 (5-10-22)	11.32	139339	0.497 PPB
8) ETHYLBENZENE #2 (5-10-22)	13.36	79334	0.365 PPB
9) m,p-XYLENE #2 (5-10-22)	13.61	196138	0.587 PPB
10) o-XYLENE #2 (5-10-22)	14.12	89786	0.344 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829003.D
Acq On : 29 Aug 2022 11:50
Sample : MB0829W1
Misc :

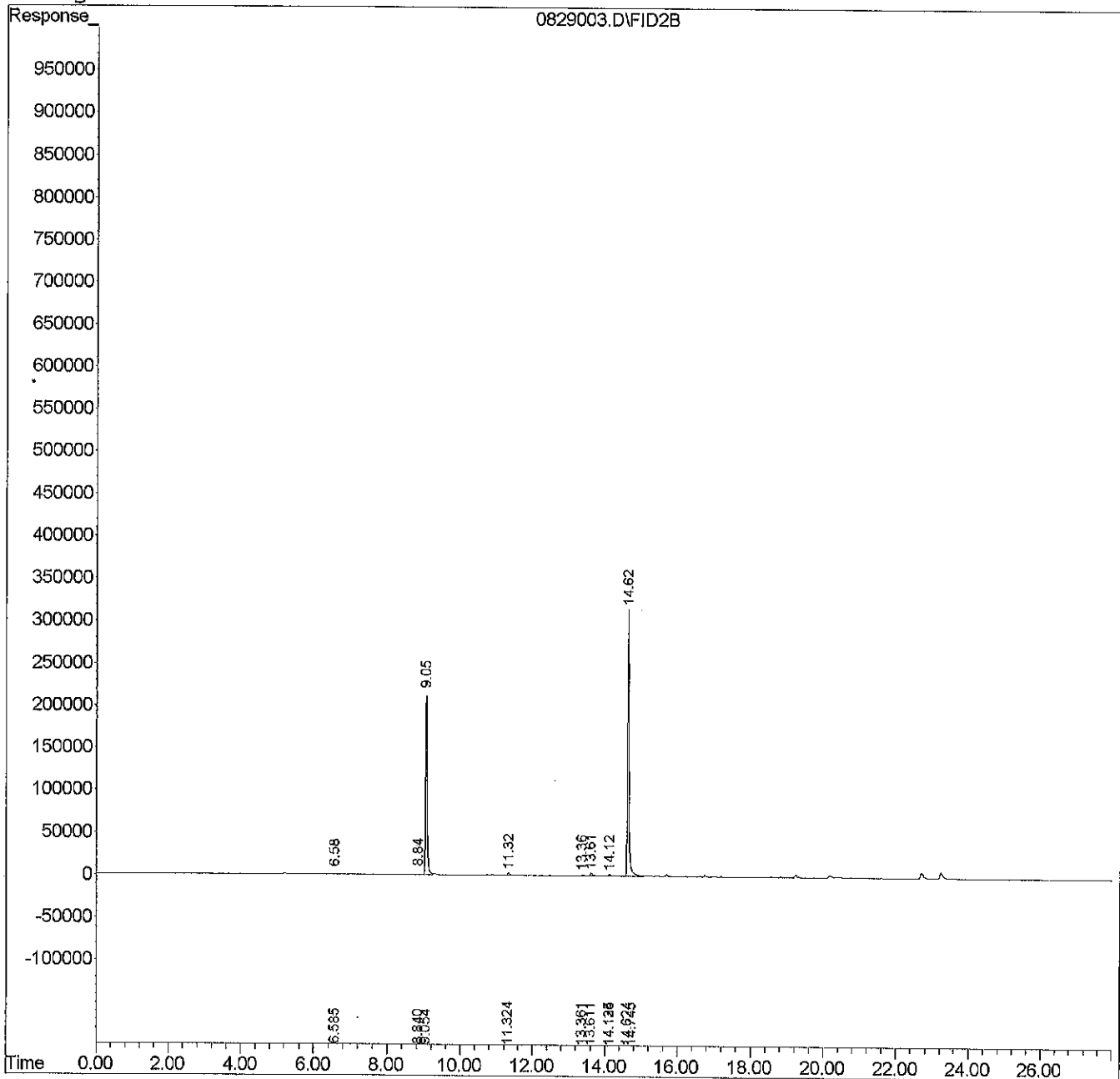
Vial: 3
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 29 12:15 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829007.D Vial: 7
 Acq On : 29 Aug 2022 15:25 Operator:
 Sample : 08-268-02h Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 30 10:33 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.05	6570831	32.796 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	9205396	34.811 PPB m <i>BLW</i>
Target Compounds			
2) H Entire GAS Envelope #2	14.13	23339848	0.210 PPM
3) H GASOLINE #2	14.74	19450444	0.226 PPM
4) MTBE #2 (5-10-22)	6.51	1566	0.128 PPB
5) BENZENE #2 (5-10-22)	8.84	10684	0.020 PPB
7) TOLUENE #2 (5-10-22)	11.36	25641	0.036 PPB
8) ETHYLBENZENE #2 (5-10-22)	0.00	0	N.D. PPB
9) m,p-XYLENE #2 (5-10-22)	13.70	98968	0.217 PPB
10) o-XYLENE #2 (5-10-22)	14.14	35849	0.103 PPB

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829007.D
Acq On : 29 Aug 2022 15:25
Sample : 08-268-02h
Misc :

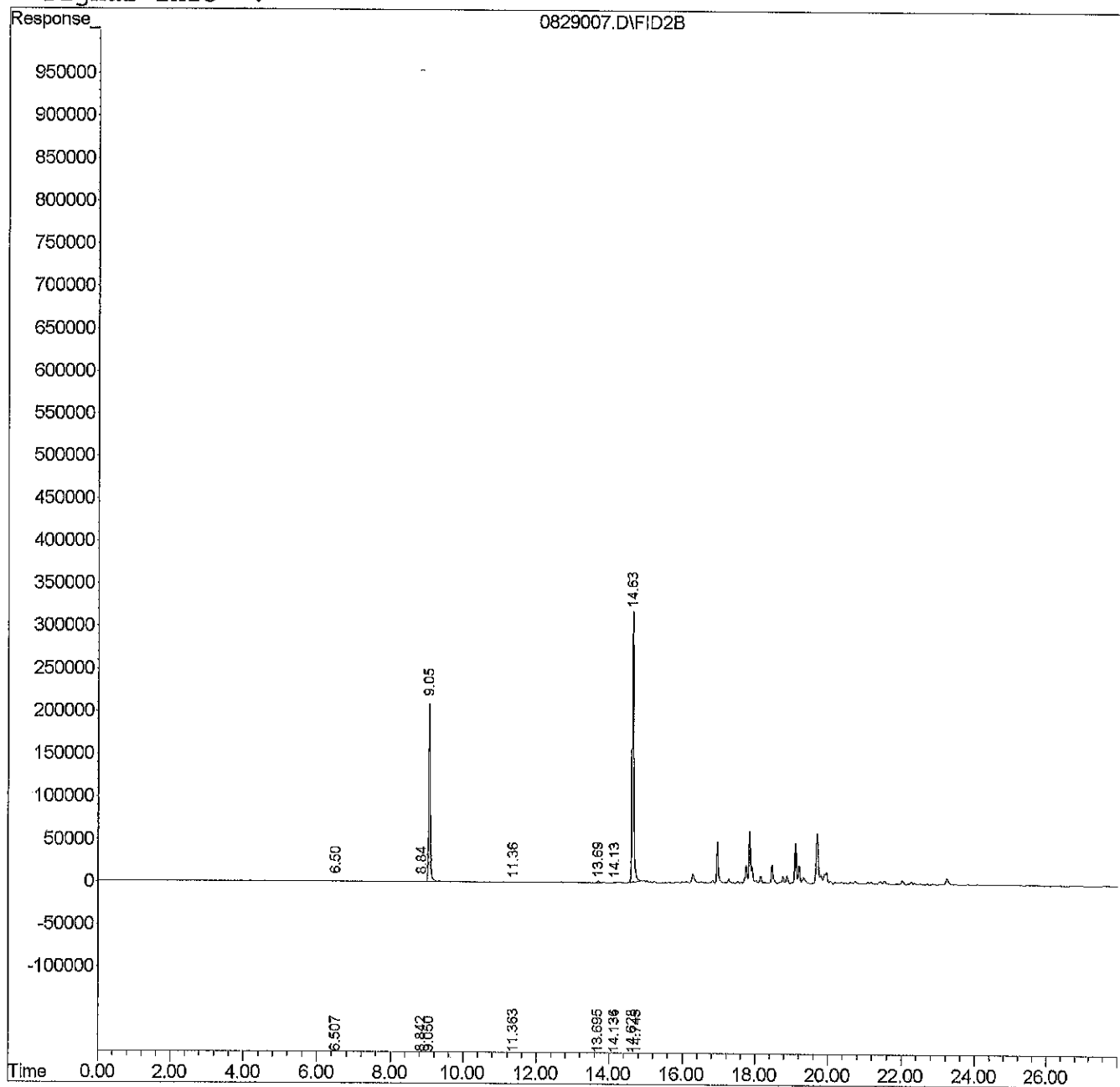
Vial: 7
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 30 10:33 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829008.D Vial: 8
 Acq On : 29 Aug 2022 15:56 Operator:
 Sample : 08-268-02h DUP Inst : Hope
 Misc : Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 30 10:33 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.05	6569761	32.791 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	9162117	34.647 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.13	23419211	0.211 PPM
3) H GASOLINE #2	14.74	19520443	0.227 PPM
4) MTBE #2 (5-10-22)	6.49	5773	0.242 PPB
5) BENZENE #2 (5-10-22)	8.85	9489	0.016 PPB
7) TOLUENE #2 (5-10-22)	11.37	24372	0.031 PPB
8) ETHYLBENZENE #2 (5-10-22)	0.00	0	N.D. PPB
9) m,p-XYLENE #2 (5-10-22)	13.69	93174	0.195 PPB
10) o-XYLENE #2 (5-10-22)	14.14	34527	0.097 PPB

m *kw*
9-2

Quantitation Report (QT Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829008.D
Acq On : 29 Aug 2022 15:56
Sample : 08-268-02h DUP
Misc :

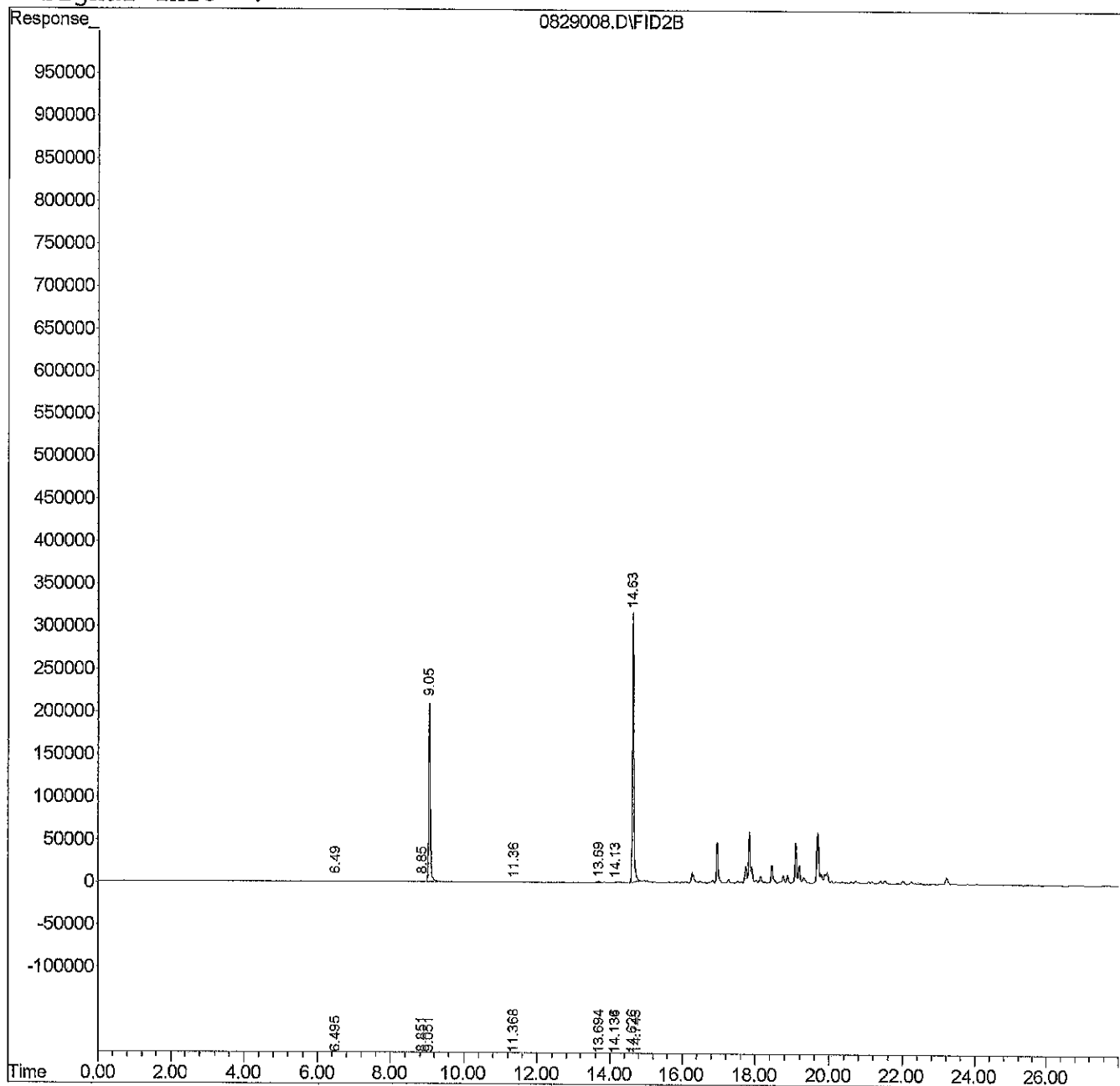
Vial: 8
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 30 10:33 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829001.D\FID1A.CH Vial: 1
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829001.D\FID2B.CH
 Acq On : 29 Aug 2022 11:19 Operator:
 Sample : ICVD0829G-1 Inst : Daryl
 Misc : V2-065-19 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 30 10:47 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.86	2307834	47.992 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.19	1677342	63.255 PPB
12) S FLUOROBENZENE #2 (07-01-22	6.86	1859207	41.255 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.19	2827527	49.392 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	207376383	4.910 PPM
2) H Entire GAS Envelope	12.16	213233981	4.729 PPM
3) H GASOLINE	13.46	112028485	5.017 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	65965464	2.920 PPM
8) H entire GAS envelope #2	12.16	113908342	4.687 PPM
9) H GASOLINE #2	13.46	88586730	4.943 PPM
10) MTBE #2 (07-01-22)	4.49	772727	25.481 PPB
11) BENZENE #2 (07-01-22)	6.62	5304438	80.135 PPB
13) TOLUENE #2 (07-01-22)	8.99	21001034	343.115 PPB
14) ETHYLBENZENE #2 (07-01-22)	10.94	7291427	129.393 PPB
15) m,p-XYLENE #2 (07-01-22)	11.19	17365285	261.752 PPB
16) o-XYLENE #2 (07-01-22)	11.69	6343565	110.193 PPB

Quantitation Report (Not Reviewed)

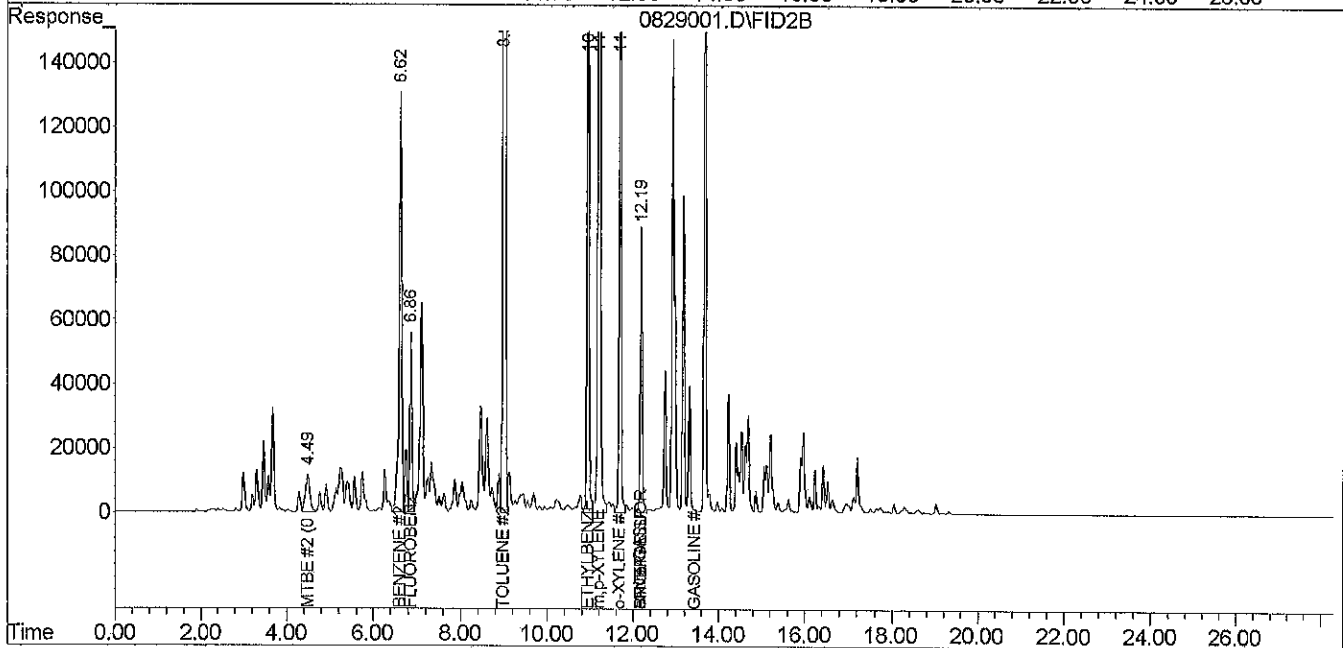
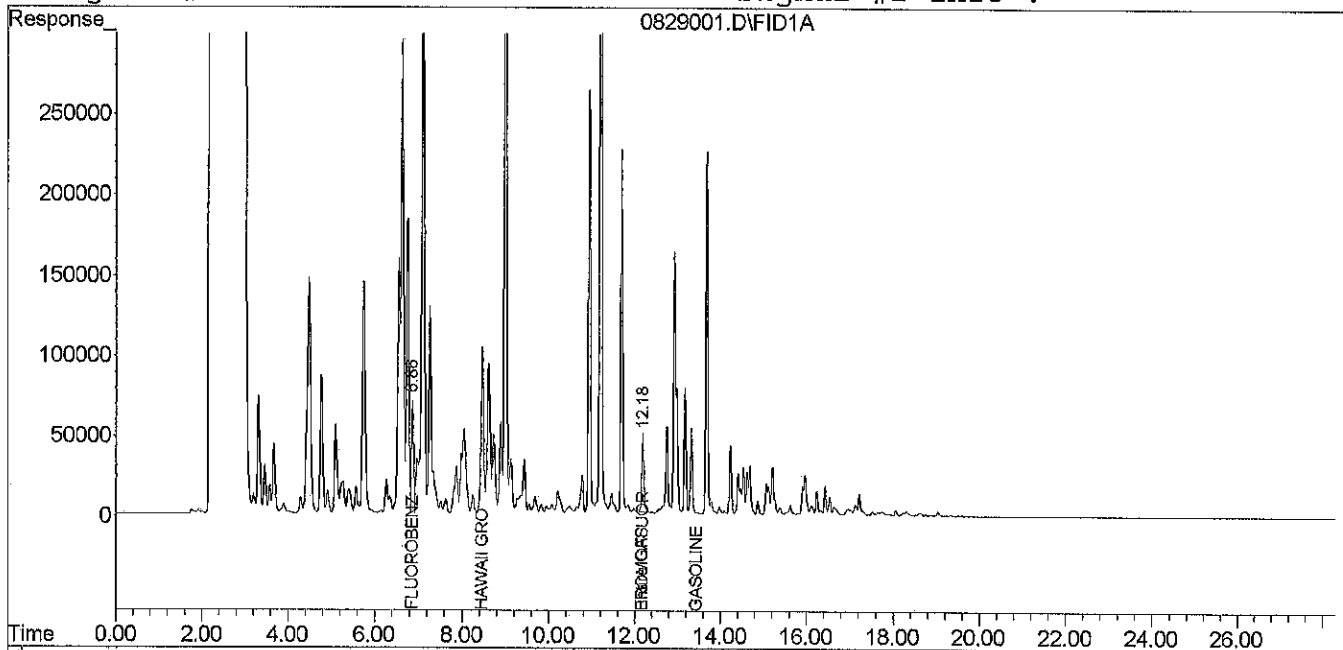
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829001.D\FID1A.CH Vial: 1
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829001.D\FID2B.CH
 Acq On : 29 Aug 2022 11:19 Operator:
 Sample : ICVD0829G-1 Inst : Daryl
 Misc : V2-065-19 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 30 10:47 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829037.D\FID1A.CH Vial: 37
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829037.D\FID2B.CH
 Acq On : 30 Aug 2022 10:48 Operator:
 Sample : CCVD0829G-1 Inst : Daryl
 Misc : V2-065-24 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 30 11:04 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Initial Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) S FLUOROBENZENE (07-01-22)	6.85	1982749	41.246 PPB
5) S BROMOFLUOROBENZENE (07-01-	12.18	1808502	68.183 PPB
12) S FLUOROBENZENE #2 (07-01-22)	6.85	1661443	36.869 PPB
17) S BROMOFLUOROBENZENE #2 (07-	12.18	2686258	46.924 PPB
Target Compounds			
1) H HAWAII GRO C-5-C12 RANGES	8.46	193771089	4.586 PPM
2) H Entire GAS Envelope	12.16	201569679	4.468 PPM
3) H GASOLINE	13.46	112957166	5.059 PPM
7) H MINERAL SPIRITS #2 (08-17-	12.19	65144596	2.884 PPM
8) H entire GAS envelope #2	12.16	114136662	4.696 PPM
9) H GASOLINE #2	13.46	87314045	4.872 PPM
10) MTBE #2 (07-01-22)	0.00	0	N.D. PPB
11) BENZENE #2 (07-01-22)	6.61	8084412	122.152 PPB
13) TOLUENE #2 (07-01-22)	8.98	20938080	342.086 PPB
14) ETHYLBENZENE #2 (07-01-22)	10.93	5033387	89.321 PPB
15) m,p-XYLENE #2 (07-01-22)	11.19	18265609	275.314 PPB
16) o-XYLENE #2 (07-01-22)	11.68	7119673	123.655 PPB

Quantitation Report (Not Reviewed)

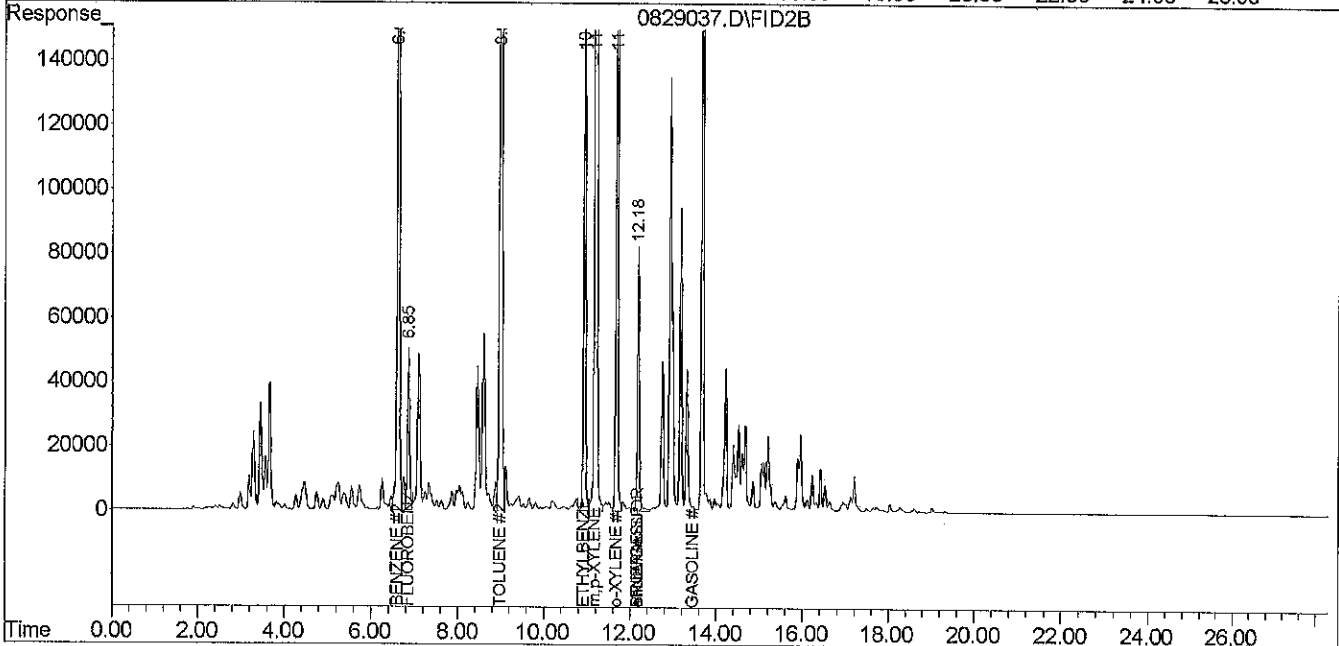
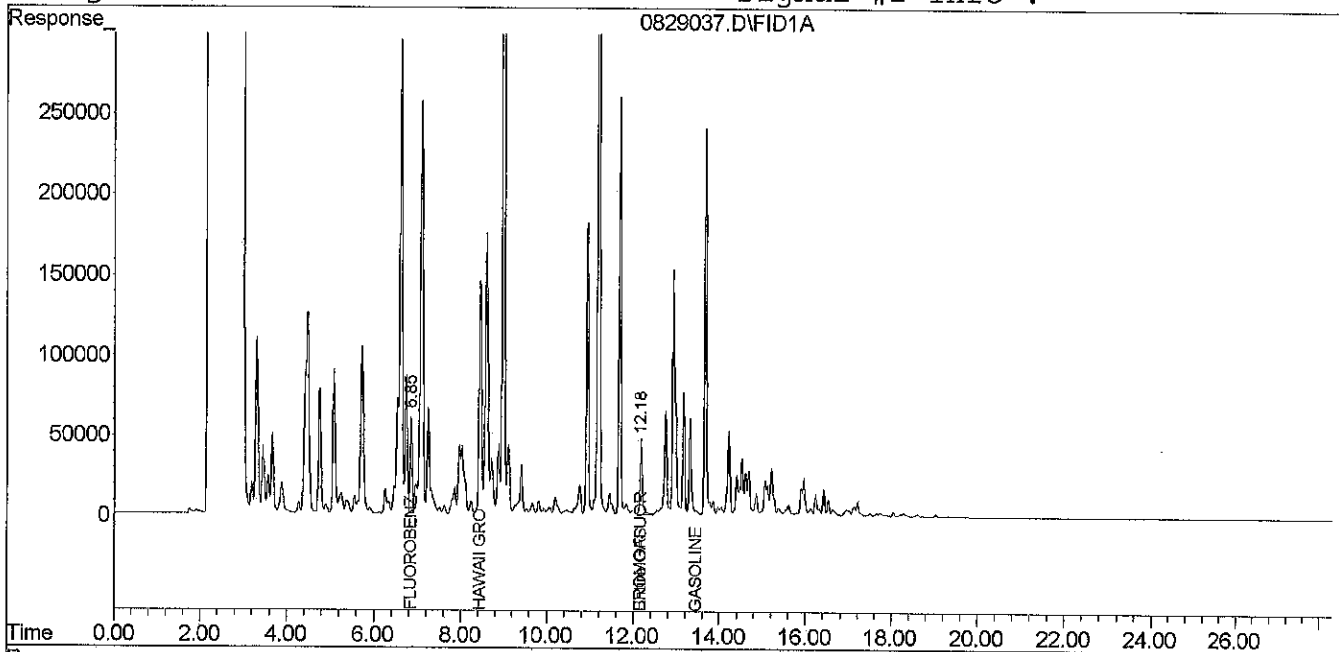
Signal #1 : X:\BTEX\DARYL\DATA\D220829\0829037.D\FID1A.CH Vial: 37
 Signal #2 : X:\BTEX\DARYL\DATA\D220829\0829037.D\FID2B.CH
 Acq On : 30 Aug 2022 10:48 Operator:
 Sample : CCVD0829G-1 Inst : Daryl
 Misc : V2-065-24 Multiplr: 1.00
 Sample Amount: 0.00

IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E

Quant Time: Aug 30 11:04 2022 Quant Results File: 220825G.RES

Quant Method : E:\BTEX\METHODS\220825G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Mon Aug 29 13:09:52 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : 220825G.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829001.D Vial: 1
 Acq On : 29 Aug 2022 10:49 Operator:
 Sample : CCVH0829G-1 Inst : Hope
 Misc : V2-065-24 Multiplr: 1.00
 Sample Amount: 0.00
 IntFile : EVENTS1.E

Quant Time: Aug 29 11:03 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
 Title : Fid calibration
 Last Update : Wed Jun 15 16:06:42 2022
 Response via : Initial Calibration
 DataAcq Meth : 220615G.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.05	7180027	35.849 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.63	10710616	40.514 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.13	242570537	2.432 PPM
3) H GASOLINE #2	14.74	195719855	2.520 PPM
4) MTBE #2 (5-10-22)	6.50	496180	13.556 PPB
5) BENZENE #2 (5-10-22)	8.81	14940581	58.324 PPB
7) TOLUENE #2 (5-10-22)	11.28	51105815	206.996 PPB
8) ETHYLBENZENE #2 (5-10-22)	13.32	10744798	47.150 PPB
9) m,p-XYLENE #2 (5-10-22)	13.57	42221941	160.955 PPB
10) o-XYLENE #2 (5-10-22)	14.10	15185532	67.976 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829001.D
Acq On : 29 Aug 2022 10:49
Sample : CCVH0829G-1
Misc : V2-065-24

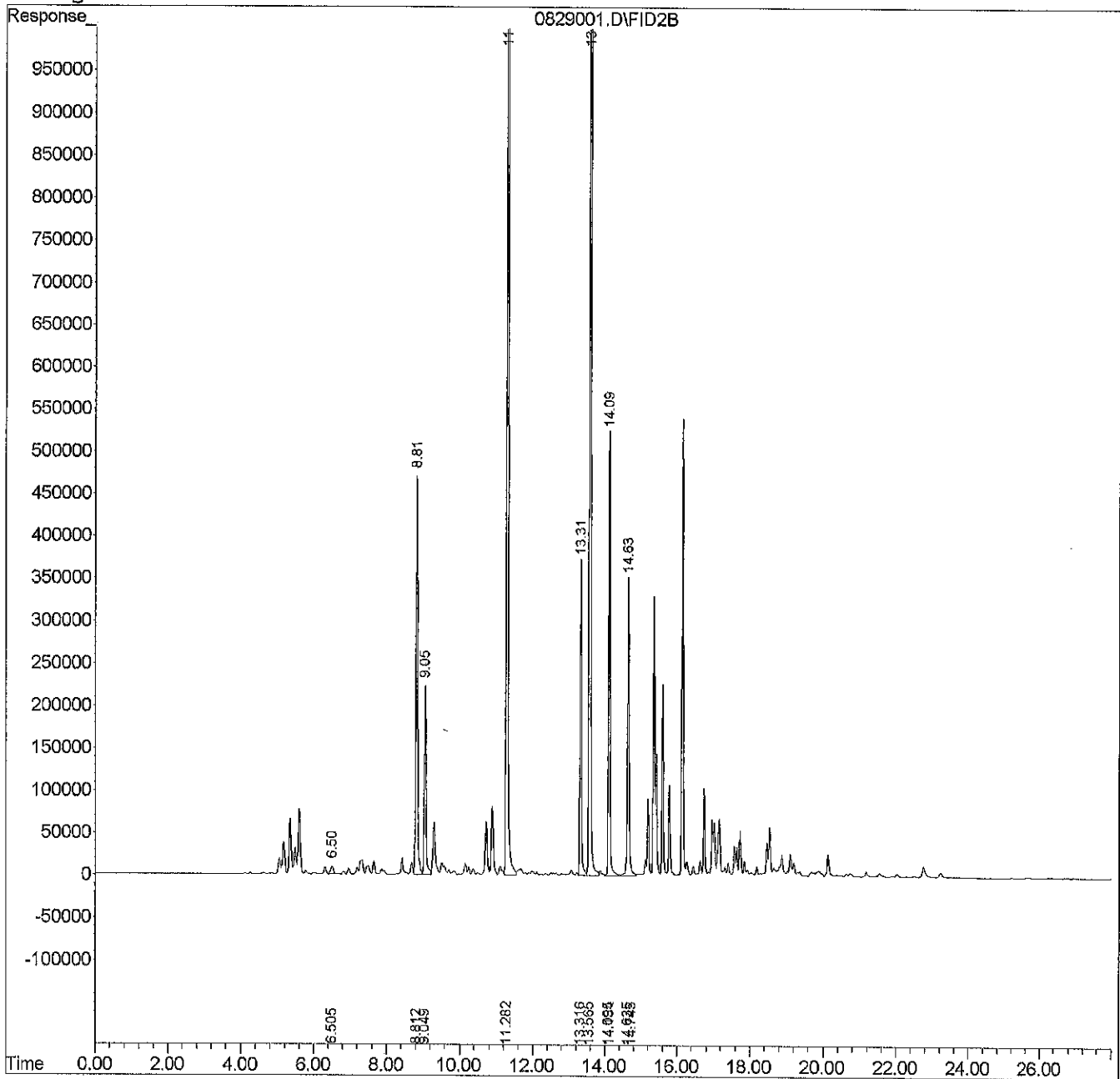
Vial: 1
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 29 11:03 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

```

Data File : X:\BTEX\HOPE\DATA\H220829\0829011.D           Vial: 11
Acq On    : 29 Aug 2022 17:41                          Operator:
Sample    : CCVD0829G-2                                  Inst   : Hope
Misc     : V2-064-25                                    Multiplr: 1.00
                                                Sample Amount: 0.00

IntFile   : EVENTS1.E
    
```

Quant Time: Aug 29 18:04 2022 Quant Results File: 220615G.RES

```

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title        : Fid calibration
Last Update  : Wed Jun 15 16:06:42 2022
Response via : Initial Calibration
DataAcq Meth : 220615G.M
    
```

```

Volume Inj. :
Signal Phase :
Signal Info  :
    
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
6) S FLUOROBENZENE #2 (1-21-22)	9.04	6868271	34.287 PPB
11) S BROMOFLUOROBENZENE #2 (1-	14.62	10365435	39.206 PPB
Target Compounds			
2) H Entire GAS Envelope #2	14.13	239284287	2.398 PPM
3) H GASOLINE #2	14.74	197354435	2.541 PPM
4) MTBE #2 (5-10-22)	6.48	504500	13.782 PPB
5) BENZENE #2 (5-10-22)	8.80	15487805	60.461 PPB
7) TOLUENE #2 (5-10-22)	11.27	52607438	213.080 PPB
8) ETHYLBENZENE #2 (5-10-22)	13.30	11160381	48.973 PPB
9) m,p-XYLENE #2 (5-10-22)	13.55	43125894	164.404 PPB
10) o-XYLENE #2 (5-10-22)	14.08	15509689	69.428 PPB

Quantitation Report (Not Reviewed)

Data File : X:\BTEX\HOPE\DATA\H220829\0829011.D
Acq On : 29 Aug 2022 17:41
Sample : CCVD0829G-2
Misc : V2-064-25

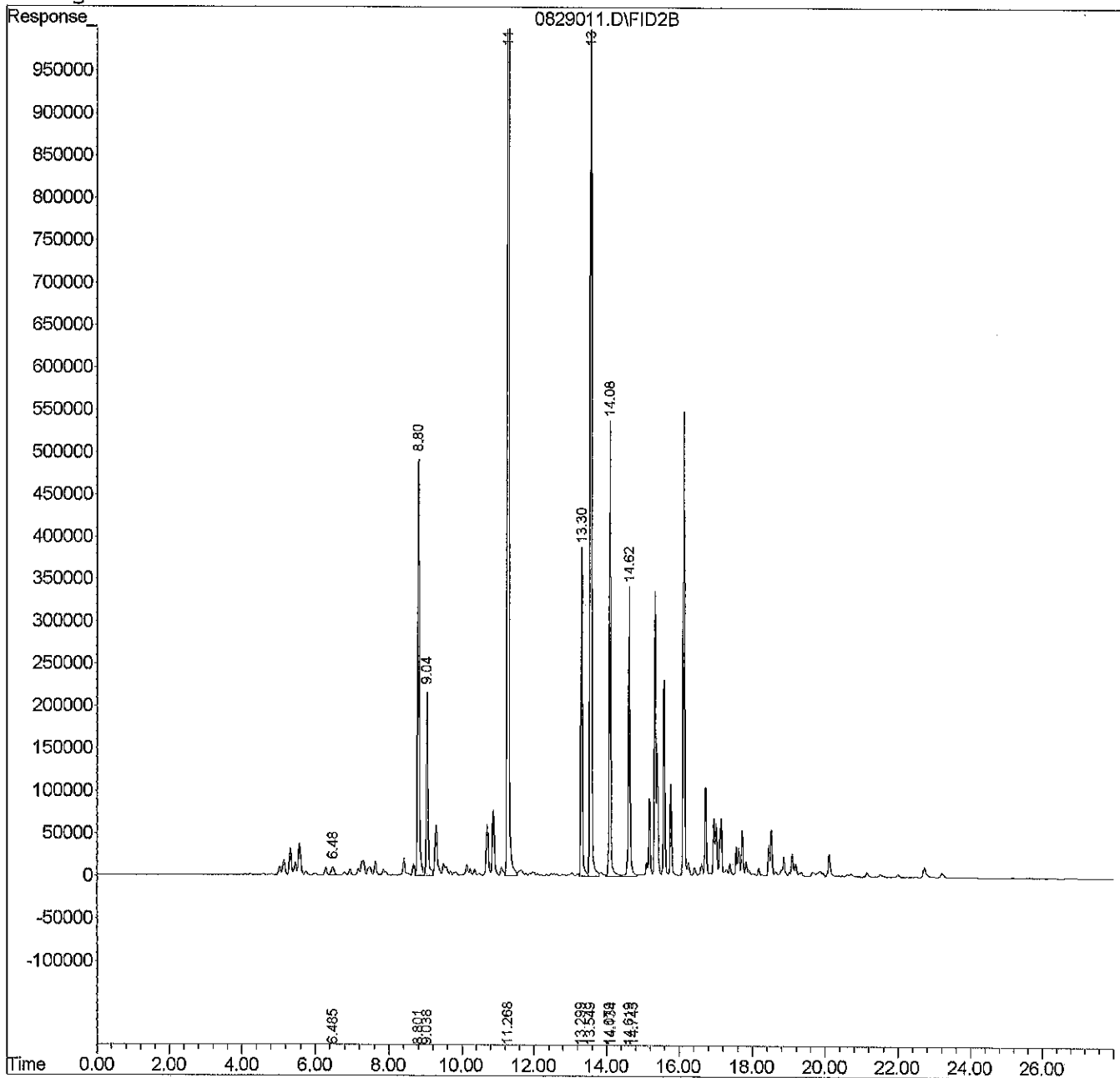
Vial: 11
Operator:
Inst : Hope
Multiplr: 1.00
Sample Amount: 0.00

IntFile : EVENTS1.E

Quant Time: Aug 29 18:04 2022 Quant Results File: 220615G.RES

Quant Method : E:\ARCHON\METHODS\220615G.M (Chemstation Integrator)
Title : Fid calibration
Last Update : Wed Jun 15 16:06:42 2022
Response via : Multiple Level Calibration
DataAcq Meth : 220615G.M

Volume Inj. :
Signal Phase :
Signal Info :



Diesel and Heavy Oil Range Organics
NWTPH-Dx Data

Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V06.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 13:26
 Operator : LIMS import
 Sample : 08-268-01
 Misc : Sample
 ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 14:02:20 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.311	86296473	29.645 PPM
Spiked Amount	50.000	Recovery =	59.29%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10979532	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	158492880	65.858 PPM
5) H Diesel Fuel #2 (02-0...	14.000	197223847	80.498 PPM
6) H Oil (02-09-22)	22.000	150710486	80.498 PPM
7) H Oil Acid Clean (02-2...	22.000	150710486	70.869 PPM
8) H Diesel Fuel #2 Combo ...	14.000	178766455	80.136 PPM
9) H Oil Combo (02-09-22)	22.000	121970424	64.618 PPM
10) H Oil Acid Clean Combo ...	22.000	121970424	56.819 PPM
11) H HAWAII 8015M DF2 (02...	14.000	195483010	86.088 PPM
12) H HAWAII 8015M Oil (02...	22.000	104466198	56.226 PPM
13) H Mineral Oil (02-09-22)	15.000	188174925	77.877 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	197223847	80.503 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	178766455	75.154 PPM
16) H Hydraulic Oil	16.000	273588586	106.098 PPM
17) H Hydraulic Oil ACU (04...	16.000	273588586	94.575 PPM
18) H Mineral Oil Combo (02...	15.000	152688532	65.675 PPM
19) H Oil Acid Clean MO Com...	22.000	106286937	49.823 PPM
20) H Oil MO Combo (02-09-22)	22.000	106286937	56.794 PPM

(f)=RT Delta > 1/2 Window

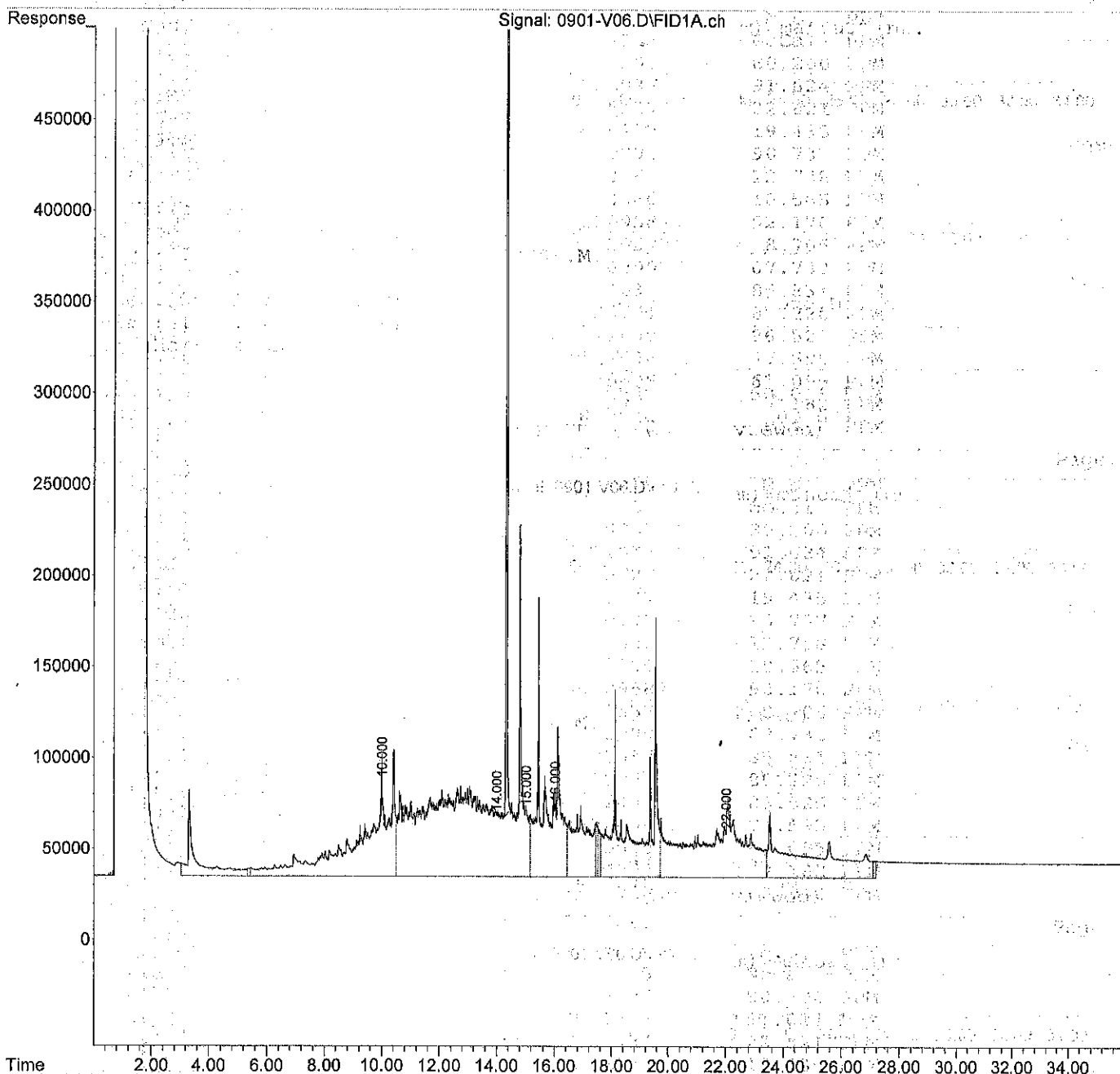
(m)=manual Int.

10979532	NoCal PPM
158492880	65.858 PPM
197223847	80.498 PPM
150710486	80.498 PPM
150710486	70.869 PPM
178766455	80.136 PPM
121970424	64.618 PPM
121970424	56.819 PPM
195483010	86.088 PPM
104466198	56.226 PPM
188174925	77.877 PPM
197223847	80.503 PPM
178766455	75.154 PPM
273588586	106.098 PPM
273588586	94.575 PPM
152688532	65.675 PPM
106286937	49.823 PPM
106286937	56.794 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V06.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 13:26
Operator : LIMS import
Sample : 08-268-01
Misc : Sample
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 14:02:20 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V59.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 15:28
 Operator : LIMS import
 Sample : 08-268-01 ACU
 Misc : RearSamp
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 16:05:37 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.236	156434580	62.915 PPM
Spiked Amount	50.000	Recovery	= 125.83%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	11599559	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	46137368	11.969 PPM
5) H Diesel Fuel #2 (05-1...	14.000	50027065	19.314 PPM
6) H Oil (08-31-22)	22.000	61582660	35.954 PPM
7) H Oil Acid Clean (08-31...	22.000	61582660	12.571 PPM
8) H Diesel Fuel #2 Combo ...	14.000	45665309	18.100 PPM
9) H Oil Combo (08-31-22)	22.000	55924966	32.421 PPM
10) H Oil Acid Clean Combo ...	22.000	55924966	10.013 PPM
11) H HAWAII 8015M DF2 (05-...	14.000	49502068	19.315 PPM
12) H HAWAII 8015M Oil (08...	22.000	51534215	30.450 PPM
13) H Mineral Oil (05-19-21)	16.000	43399946	17.427 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	50027065	16.942 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	45665309	18.070 PPM
16) H Hydraulic Oil (02-25...	14.000	83672450	33.252 PPM
17) H Hydraulic Oil ACU (04...	14.000	83672450	20.425 PPM
18) H Mineral Oil Combo (05...	16.000	32340713	14.333 PPM
19) H Oil Acid Clean MO Com...	22.000	52133030	11.020 PPM
20) H Oil MO Combo (08-31-22)	22.000	52133030	30.518 PPM
21) H JP-4 (03-24-21)	8.000	38172859	NoCal PPM
22) H JP-5 (03-25-21)	8.000	29446120	NoCal PPM
23) H JP-8 (03-26-21)	8.000	37086143	NoCal PPM

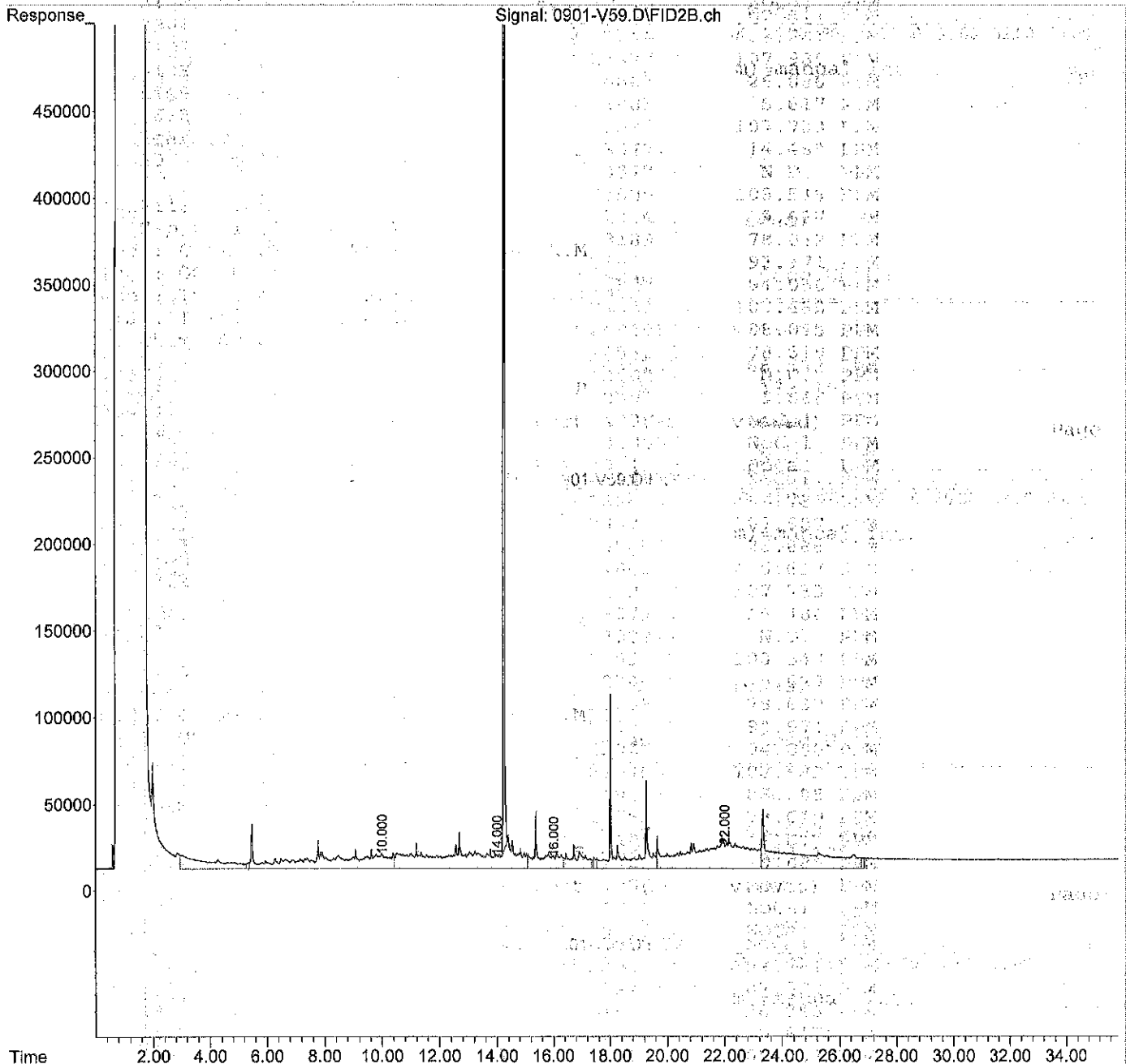
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V59.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 15:28
 Operator : LIMS import
 Sample : 08-268-01 ACU
 Misc : RearSamp
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 16:05:37 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V07.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 14:07
 Operator : LIMS import
 Sample : 08-268-02
 Misc : Sample
 ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 14:43:09 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.312	124835859	42.822 PPM
Spiked Amount	50.000	Recovery	= 85.64%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	13091299	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	628757083	261.562 PPM
5) H Diesel Fuel #2 (02-0...	14.000	801694455	344.036 PPM
6) H Oil (02-09-22)	22.000	460316025	260.076 PPM
7) H Oil Acid Clean (02-2...	22.000	460316025	231.009 PPM
8) H Diesel Fuel #2 Combo ...	14.000	721724057	318.508 PPM
9) H Oil Combo (02-09-22)	22.000	359550794	204.509 PPM
10) H Oil Acid Clean Combo ...	22.000	359550794	181.539 PPM
11) H HAWAII 8015M DF2 (02...	14.000	794411892	344.376 PPM
12) H HAWAII 8015M Oil (02...	22.000	285145874	166.463 PPM
13) H Mineral Oil (02-09-22)	15.000	754486059	306.066 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	801694455	325.426 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	721724057	301.508 PPM
16) H Hydraulic Oil	16.000	1035932250	413.096 PPM
17) H Hydraulic Oil ACU (04...	16.000	1035932250	360.902 PPM
18) H Mineral Oil Combo (02...	15.000	626116901	263.652 PPM
19) H Oil Acid Clean MO Com...	22.000	290828037	149.361 PPM
20) H Oil MO Combo (02-09-22)	22.000	290828037	168.503 PPM

(f)=RT Delta > 1/2 Window

(m)=manual Int.

13091299	261.562 PPM
628757083	344.036 PPM
801694455	260.076 PPM
460316025	231.009 PPM
460316025	318.508 PPM
721724057	204.509 PPM
359550794	181.539 PPM
359550794	344.376 PPM
794411892	166.463 PPM
285145874	306.066 PPM
754486059	325.426 PPM
801694455	301.508 PPM
721724057	413.096 PPM
1035932250	360.902 PPM
1035932250	263.652 PPM
626116901	149.361 PPM
290828037	168.503 PPM
290828037	

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V62.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 17:31
 Operator : LIMS import
 Sample : 08-268-02 ACU
 Misc : RearSamp
 ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 18:08:38 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.233	132764920	53.442 PPM
Spiked Amount	50.000	Recovery =	106.88%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	15128415	NoCal PPM
4) H Diesel Fuel #1 (03-23-...)	10.000	96625339	35.666 PPM
5) H Diesel Fuel #2 (05-1-...)	14.000	97119926	41.675 PPM
6) H Oil (08-31-22)	22.000	31063791	14.581 PPM
7) H Oil Acid Clean (08-31-...)	22.000	31063791	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	94146015	41.768 PPM
9) H Oil Combo (08-31-22)	22.000	26833778	11.676 PPM
10) H Oil Acid Clean Combo ...	22.000	26833778	N.D. PPM
11) H HAWAII 8015M DF2 (05-...)	14.000	96050981	41.594 PPM
12) H HAWAII 8015M Oil (08-...)	22.000	23795617	9.886 PPM
13) H Mineral Oil (05-19-21)	16.000	48598802	19.702 PPM
14) H Diesel Fuel #2 ACU (0-...)	14.000	97119926	36.367 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	94146015	36.660 PPM
16) H Hydraulic Oil (02-25-...)	14.000	109580541	44.852 PPM
17) H Hydraulic Oil ACU (04-...)	14.000	109580541	30.998 PPM
18) H Mineral Oil Combo (05-...)	16.000	43440081	19.313 PPM
19) H Oil Acid Clean MO Com...	22.000	24252375	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	24252375	10.001 PPM
21) H JP-4 (03-24-21)	8.000	87423331	NoCal PPM
22) H JP-5 (03-25-21)	8.000	78794673	NoCal PPM
23) H JP-8 (03-26-21)	8.000	88123907	NoCal PPM

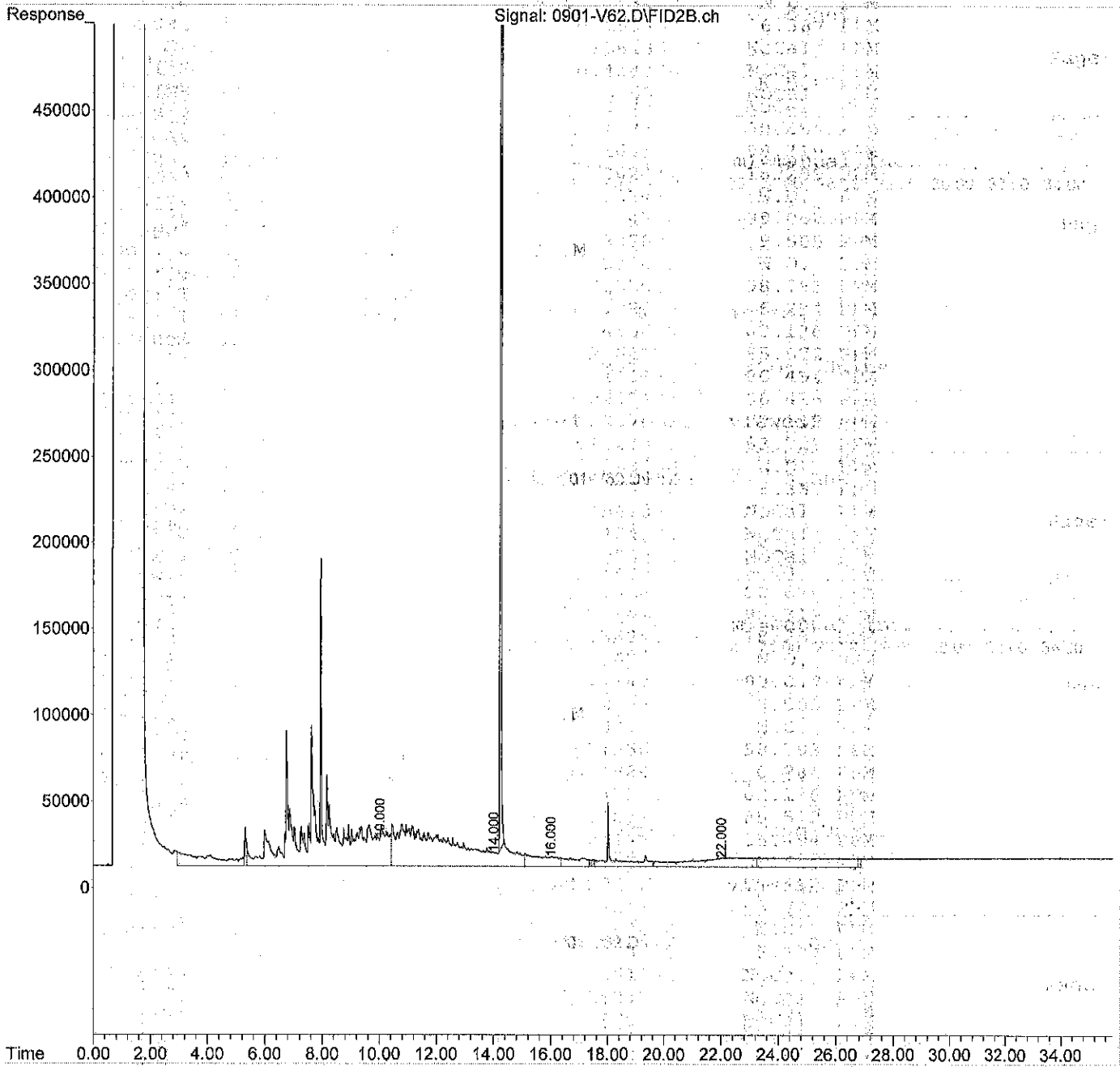
(f)=RT Delta > 1/2 Window

(m)=manual Int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V62.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 17:31
Operator : LIMS import
Sample : 08-268-02 ACU
Misc : RearSamp
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 18:08:38 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V08.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 14:48
 Operator : LIMS import
 Sample : 08-268-03
 Misc : Sample
 ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 15:24:02 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.317	146153512	50.111 PPM
Spiked Amount	50.000	Recovery	= 100.22%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10668934	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	138614185	57.586 PPM
5) H Diesel Fuel #2 (02-0...	14.000	188472235	82.276 PPM
6) H Oil (02-09-22)	22.000	193206455	105.147 PPM
7) H Oil Acid Clean (02-2...	22.000	193206455	92.849 PPM
8) H Diesel Fuel #2 Combo ...	14.000	163559552	73.460 PPM
9) H Oil Combo (02-09-22)	22.000	160719596	87.434 PPM
10) H Oil Acid Clean Combo ...	22.000	160719596	77.160 PPM
11) H HAWAII 8015M DF2 (02...	14.000	185994496	81.996 PPM
12) H HAWAII 8015M Oil (02...	22.000	137173854	76.182 PPM
13) H Mineral Oil (02-09-22)	15.000	199069977	82.267 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	188472235	76.957 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	163559552	68.814 PPM
16) H Hydraulic Oil	16.000	289401460	112.466 PPM
17) H Hydraulic Oil ACU (04...	16.000	289401460	100.100 PPM
18) H Mineral Oil Combo (02...	15.000	153848655	66.160 PPM
19) H Oil Acid Clean MO Com...	22.000	139452782	67.712 PPM
20) H Oil MO Combo (02-09-22)	22.000	139452782	76.870 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

10668934	NoCal PPM
138614185	57.586 PPM
188472235	82.276 PPM
193206455	105.147 PPM
193206455	92.849 PPM
163559552	73.460 PPM
160719596	87.434 PPM
160719596	77.160 PPM
185994496	81.996 PPM
137173854	76.182 PPM
199069977	82.267 PPM
188472235	76.957 PPM
163559552	68.814 PPM
289401460	112.466 PPM
289401460	100.100 PPM
153848655	66.160 PPM
139452782	67.712 PPM
139452782	76.870 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V63.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 18:12
 Operator : LIMS import
 Sample : 08-268-03 ACU
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 18:49:34 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.235	149891127	60.296 PPM
Spiked Amount	50.000	Recovery	= 120.59%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	14822991	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	43341482	10.657 PPM
5) H Diesel Fuel #2 (05-1...	14.000	41024930	15.039 PPM
6) H Oil (08-31-22)	22.000	32716698	15.738 PPM
7) H Oil Acid Clean (08-31...	22.000	32716698	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	38298386	14.504 PPM
9) H Oil Combo (08-31-22)	22.000	29301445	13.436 PPM
10) H Oil Acid Clean Combo ...	22.000	29301445	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	40442207	14.979 PPM
12) H HAWAII 8015M Oil (08...	22.000	26528351	11.912 PPM
13) H Mineral Oil (05-19-21)	16.000	28253276	10.799 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	41024930	13.229 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	38298386	12.941 PPM
16) H Hydraulic Oil (02-25...	14.000	56050970	20.884 PPM
17) H Hydraulic Oil ACU (04...	14.000	56050970	9.152 PPM
18) H Mineral Oil Combo (05...	16.000	22721603	10.017 PPM
19) H Oil Acid Clean MO Com...	22.000	26987524	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	26987524	12.014 PPM
21) H JP-4 (03-24-21)	8.000	40589472	NoCal PPM
22) H JP-5 (03-25-21)	8.000	30228276	NoCal PPM
23) H JP-8 (03-26-21)	8.000	35334272	NoCal PPM

(f)=RT Delta > 1/2 Window

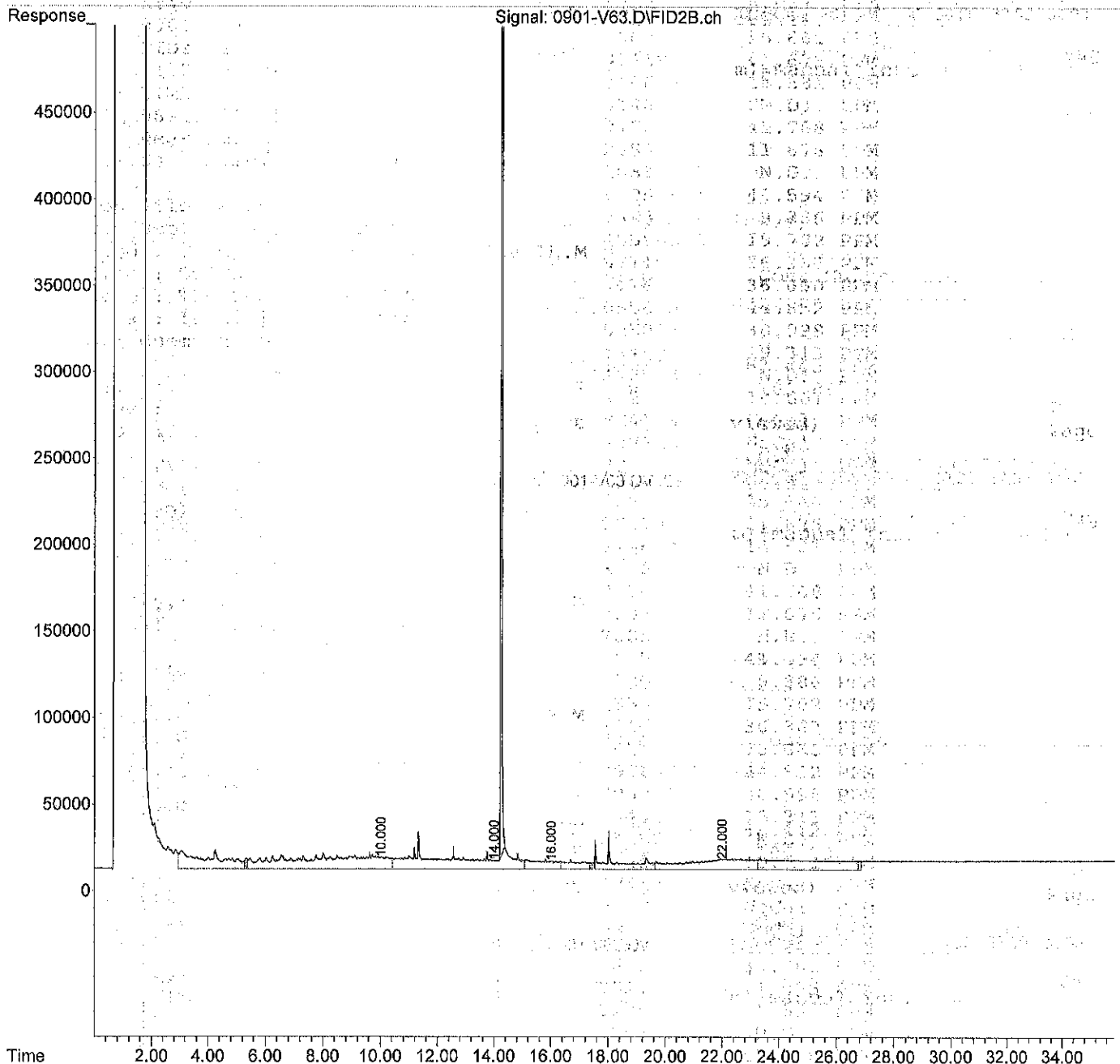
(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V63.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 18:12
 Operator : LIMS import
 Sample : 08-268-03 ACU
 Misc : RearSamp
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 18:49:34 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Retention Time (min)	Area	Height	Width	Integration
10.000	10000	10000	0.100	10000
14.000	10000	10000	0.100	10000
16.000	10000	10000	0.100	10000
22.000	10000	10000	0.100	10000
41.594	41594	41594	0.100	41594
41.788	41788	41788	0.100	41788
41.978	41978	41978	0.100	41978
42.168	42168	42168	0.100	42168
42.358	42358	42358	0.100	42358
42.548	42548	42548	0.100	42548
42.738	42738	42738	0.100	42738
42.928	42928	42928	0.100	42928
43.118	43118	43118	0.100	43118
43.308	43308	43308	0.100	43308
43.498	43498	43498	0.100	43498
43.688	43688	43688	0.100	43688
43.878	43878	43878	0.100	43878
44.068	44068	44068	0.100	44068
44.258	44258	44258	0.100	44258
44.448	44448	44448	0.100	44448
44.638	44638	44638	0.100	44638
44.828	44828	44828	0.100	44828
45.018	45018	45018	0.100	45018
45.208	45208	45208	0.100	45208
45.398	45398	45398	0.100	45398
45.588	45588	45588	0.100	45588
45.778	45778	45778	0.100	45778
45.968	45968	45968	0.100	45968
46.158	46158	46158	0.100	46158
46.348	46348	46348	0.100	46348
46.538	46538	46538	0.100	46538
46.728	46728	46728	0.100	46728
46.918	46918	46918	0.100	46918
47.108	47108	47108	0.100	47108
47.298	47298	47298	0.100	47298
47.488	47488	47488	0.100	47488
47.678	47678	47678	0.100	47678
47.868	47868	47868	0.100	47868
48.058	48058	48058	0.100	48058
48.248	48248	48248	0.100	48248
48.438	48438	48438	0.100	48438
48.628	48628	48628	0.100	48628
48.818	48818	48818	0.100	48818
49.008	49008	49008	0.100	49008
49.198	49198	49198	0.100	49198
49.388	49388	49388	0.100	49388
49.578	49578	49578	0.100	49578
49.768	49768	49768	0.100	49768
49.958	49958	49958	0.100	49958
50.148	50148	50148	0.100	50148
50.338	50338	50338	0.100	50338
50.528	50528	50528	0.100	50528
50.718	50718	50718	0.100	50718
50.908	50908	50908	0.100	50908
51.098	51098	51098	0.100	51098
51.288	51288	51288	0.100	51288
51.478	51478	51478	0.100	51478
51.668	51668	51668	0.100	51668
51.858	51858	51858	0.100	51858
52.048	52048	52048	0.100	52048
52.238	52238	52238	0.100	52238
52.428	52428	52428	0.100	52428
52.618	52618	52618	0.100	52618
52.808	52808	52808	0.100	52808
52.998	52998	52998	0.100	52998
53.188	53188	53188	0.100	53188
53.378	53378	53378	0.100	53378
53.568	53568	53568	0.100	53568
53.758	53758	53758	0.100	53758
53.948	53948	53948	0.100	53948
54.138	54138	54138	0.100	54138
54.328	54328	54328	0.100	54328
54.518	54518	54518	0.100	54518
54.708	54708	54708	0.100	54708
54.898	54898	54898	0.100	54898
55.088	55088	55088	0.100	55088
55.278	55278	55278	0.100	55278
55.468	55468	55468	0.100	55468
55.658	55658	55658	0.100	55658
55.848	55848	55848	0.100	55848
56.038	56038	56038	0.100	56038
56.228	56228	56228	0.100	56228
56.418	56418	56418	0.100	56418
56.608	56608	56608	0.100	56608
56.798	56798	56798	0.100	56798
56.988	56988	56988	0.100	56988
57.178	57178	57178	0.100	57178
57.368	57368	57368	0.100	57368
57.558	57558	57558	0.100	57558
57.748	57748	57748	0.100	57748
57.938	57938	57938	0.100	57938
58.128	58128	58128	0.100	58128
58.318	58318	58318	0.100	58318
58.508	58508	58508	0.100	58508
58.698	58698	58698	0.100	58698
58.888	58888	58888	0.100	58888
59.078	59078	59078	0.100	59078
59.268	59268	59268	0.100	59268
59.458	59458	59458	0.100	59458
59.648	59648	59648	0.100	59648
59.838	59838	59838	0.100	59838
60.028	60028	60028	0.100	60028
60.218	60218	60218	0.100	60218
60.408	60408	60408	0.100	60408
60.598	60598	60598	0.100	60598
60.788	60788	60788	0.100	60788
60.978	60978	60978	0.100	60978
61.168	61168	61168	0.100	61168
61.358	61358	61358	0.100	61358
61.548	61548	61548	0.100	61548
61.738	61738	61738	0.100	61738
61.928	61928	61928	0.100	61928
62.118	62118	62118	0.100	62118
62.308	62308	62308	0.100	62308
62.498	62498	62498	0.100	62498
62.688	62688	62688	0.100	62688
62.878	62878	62878	0.100	62878
63.068	63068	63068	0.100	63068
63.258	63258	63258	0.100	63258
63.448	63448	63448	0.100	63448
63.638	63638	63638	0.100	63638
63.828	63828	63828	0.100	63828
64.018	64018	64018	0.100	64018
64.208	64208	64208	0.100	64208
64.398	64398	64398	0.100	64398
64.588	64588	64588	0.100	64588
64.778	64778	64778	0.100	64778
64.968	64968	64968	0.100	64968
65.158	65158	65158	0.100	65158
65.348	65348	65348	0.100	65348
65.538	65538	65538	0.100	65538
65.728	65728	65728	0.100	65728
65.918	65918	65918	0.100	65918
66.108	66108	66108	0.100	66108
66.298	66298	66298	0.100	66298
66.488	66488	66488	0.100	66488
66.678	66678	66678	0.100	66678
66.868	66868	66868	0.100	66868
67.058	67058	67058	0.100	67058
67.248	67248	67248	0.100	67248
67.438	67438	67438	0.100	67438
67.628	67628	67628	0.100	67628
67.818	67818	67818	0.100	67818
68.008	68008	68008	0.100	68008
68.198	68198	68198	0.100	68198
68.388	68388	68388	0.100	68388
68.578	68578	68578	0.100	68578
68.768	68768	68768	0.100	68768
68.958	68958	68958	0.100	68958
69.148	69148	69148	0.100	69148
69.338	69338	69338	0.100	69338
69.528	69528	69528	0.100	69528
69.718	69718	69718	0.100	69718
69.908	69908	69908	0.100	69908
70.098	70098	70098	0.100	70098
70.288	70288	70288	0.100	70288
70.478	70478	70478	0.100	70478
70.668	70668	70668	0.100	70668
70.858	70858	70858	0.100	70858
71.048	71048	71048	0.100	71048
71.238	71238	71238	0.100	71238
71.428	71428	71428	0.100	71428
71.618	71618	71618	0.100	71618
71.808	71808	71808	0.100	71808
72.000	72000	72000	0.100	72000



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V09.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 15:28
 Operator : LIMS import
 Sample : 08-268-04
 Misc : Sample
 ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 16:04:58 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.316	141806409	48.624 PPM
Spiked Amount	50.000	Recovery	= 97.25%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6308944	N.Cal PPM
4) H Diesel Fuel #1 (02-18...	10.000	140439062	58.345 PPM
5) H Diesel Fuel #2 (02-0...	14.000	213785404	93.081 PPM
6) H Oil (02-09-22)	22.000	234745537	129.241 PPM
7) H Oil Acid Clean (02-2...	22.000	234745537	114.335 PPM
8) H Diesel Fuel #2 Combo ...	14.000	178968366	80.224 PPM
9) H Oil Combo (02-09-22)	22.000	191860480	105.770 PPM
10) H Oil Acid Clean Combo ...	22.000	191860480	93.508 PPM
11) H HAWAII 8015M DF2 (02...	14.000	210827952	92.705 PPM
12) H HAWAII 8015M Oil (02...	22.000	159080289	89.548 PPM
13) H Mineral Oil (02-09-22)	15.000	246922656	101.549 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	213785404	87.214 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	178968366	75.238 PPM
16) H Hydraulic Oil	16.000	336649562	131.493 PPM
17) H Hydraulic Oil ACU (04...	16.000	336649562	116.606 PPM
18) H Mineral Oil Combo (02...	15.000	187060921	80.049 PPM
19) H Oil Acid Clean MO Com...	22.000	161929401	79.836 PPM
20) H Oil MO Combo (02-09-22)	22.000	161929401	90.476 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

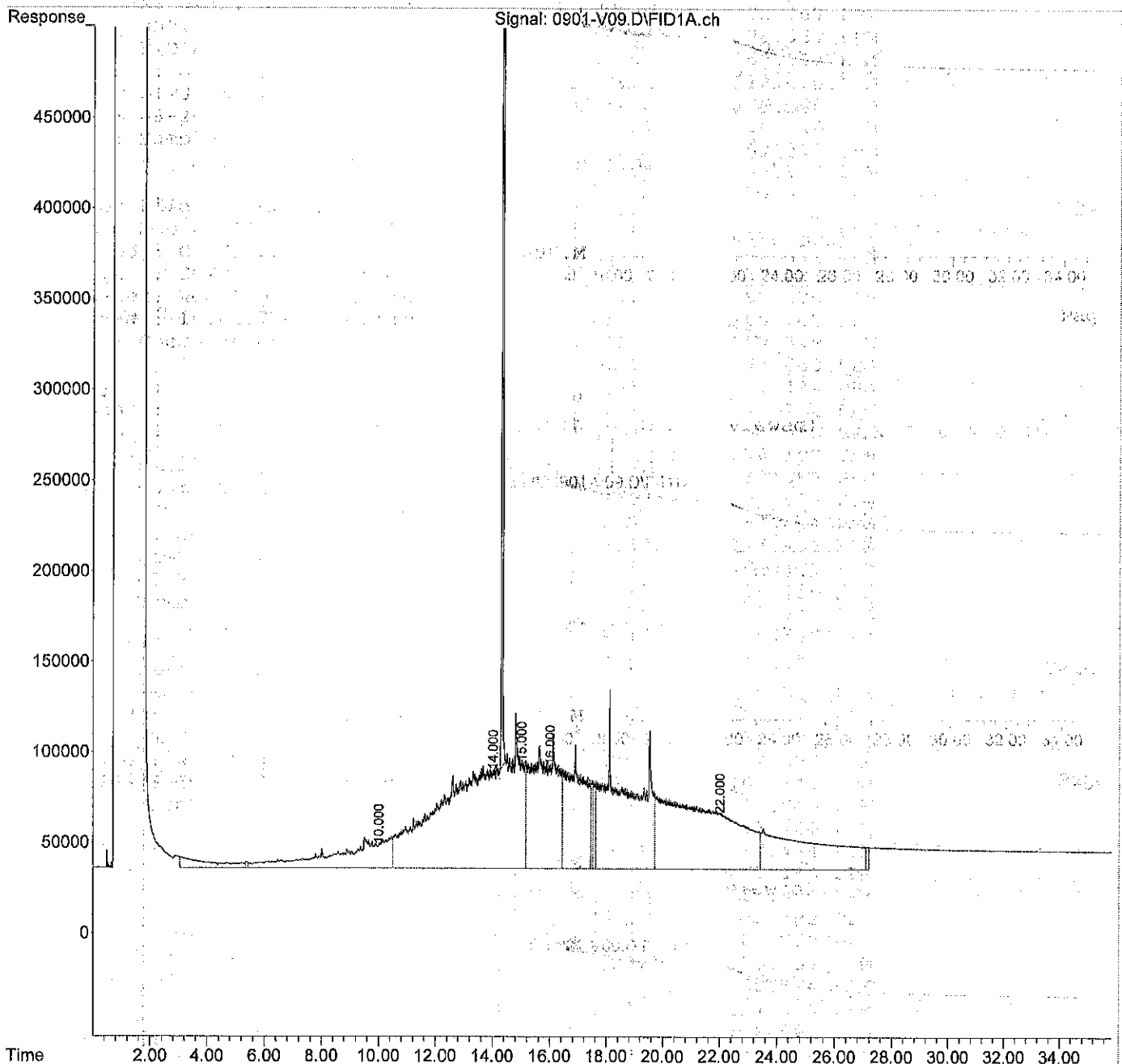
140439062	58.345 PPM
213785404	93.081 PPM
234745537	129.241 PPM
234745537	114.335 PPM
178968366	80.224 PPM
191860480	105.770 PPM
191860480	93.508 PPM
210827952	92.705 PPM
159080289	89.548 PPM
246922656	101.549 PPM
213785404	87.214 PPM
178968366	75.238 PPM
336649562	131.493 PPM
336649562	116.606 PPM
187060921	80.049 PPM
161929401	79.836 PPM
161929401	90.476 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V09.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 15:28
Operator : LIMS import
Sample : 08-268-04
Misc : Sample
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 16:04:58 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

viewed)



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V64.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 18:53
 Operator : LIMS import
 Sample : 08-268-04 ACU
 Misc : RearSamp
 ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 19:30:31 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-19-21)	14.237	172087129	69.179	PPM
Spiked Amount	50.000	Recovery	= 138.36%	
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	9403939	NoCal	PPM
4) H Diesel Fuel #1 (03-23...	10.000	38432512	8.353	PPM
5) H Diesel Fuel #2 (05-1...	14.000	43561553	16.244	PPM
6) H Oil (08-31-22)	22.000	38898889	20.068	PPM
7) H Oil Acid Clean (08-31...	22.000	38898889	0.389	PPM
8) H Diesel Fuel #2 Combo ...	14.000	39027359	14.860	PPM
9) H Oil Combo (08-31-22)	22.000	32884615	15.991	PPM
10) H Oil Acid Clean Combo ...	22.000	32884615	N.D.	PPM
11) H HAWAII 8015M DF2 (05-...	14.000	43057442	16.231	PPM
12) H HAWAII 8015M Oil (08...	22.000	28410575	13.308	PPM
13) H Mineral Oil (05-19-21)	16.000	39931776	15.909	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	43561553	14.275	PPM
15) H Diesel Fuel #2 ACU Co...	14.000	39027359	13.250	PPM
16) H Hydraulic Oil (02-25...	14.000	61145651	23.165	PPM
17) H Hydraulic Oil ACU (04...	14.000	61145651	11.231	PPM
18) H Mineral Oil Combo (05...	16.000	32179541	14.261	PPM
19) H Oil Acid Clean MO Com...	22.000	28956084	N.D.	PPM
20) H Oil MO Combo (08-31-22)	22.000	28956084	13.463	PPM
21) H JP-4 (03-24-21)	8.000	30008848	NoCal	PPM
22) H JP-5 (03-25-21)	8.000	21447462	NoCal	PPM
23) H JP-8 (03-26-21)	8.000	29248989	NoCal	PPM

(f)=RT Delta > 1/2 Window

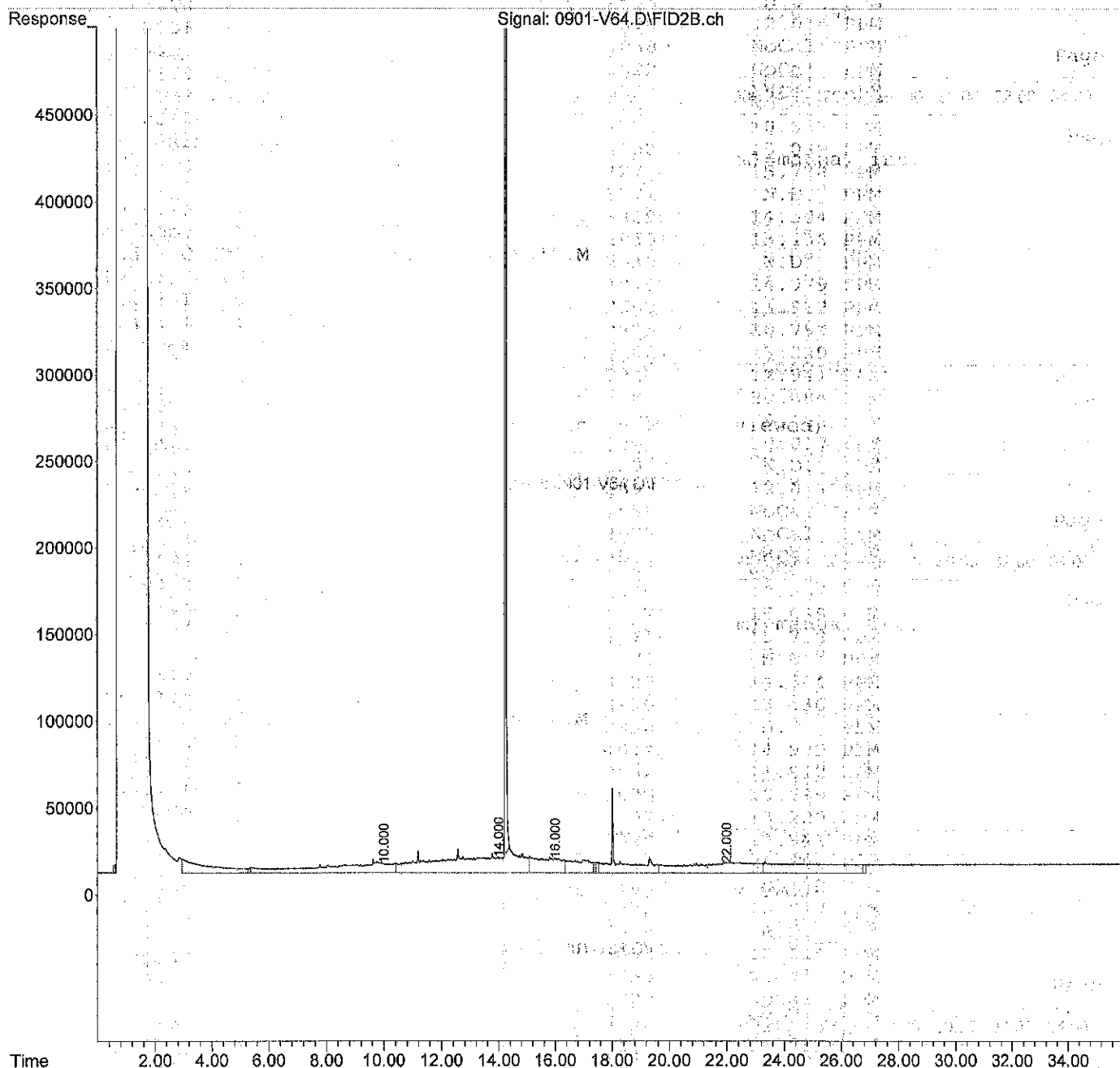
(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V64.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 18:53
Operator : LIMS import
Sample : 08-268-04 ACU
Misc : RearSamp
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 19:30:31 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

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viewed



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V12.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 17:31
 Operator : LIMS import
 Sample : 08-268-05
 Misc : Sample
 ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 18:08:00 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.315	136948739	46.963 PPM
Spiked Amount	50.000	Recovery =	93.93%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6394644	NOCAL PPM
4) H Diesel Fuel #1 (02-18...	10.000	128868801	53.530 PPM
5) H Diesel Fuel #2 (02-0...	14.000	189138033	82.560 PPM
6) H Oil (02-09-22)	22.000	194716574	106.023 PPM
7) H Oil Acid Clean (02-2...	22.000	194716574	93.631 PPM
8) H Diesel Fuel #2 Combo ...	14.000	160811676	72.253 PPM
9) H Oil Combo (02-09-22)	22.000	158300628	86.010 PPM
10) H Oil Acid Clean Combo ...	22.000	158300628	75.891 PPM
11) H HAWAII 8015M DF2 (02...	14.000	186700503	82.300 PPM
12) H HAWAII 8015M Oil (02...	22.000	131560051	72.757 PPM
13) H Mineral Oil (02-09-22)	15.000	215148784	88.746 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	189138033	77.227 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	160811676	67.668 PPM
16) H Hydraulic Oil	16.000	289320905	112.433 PPM
17) H Hydraulic Oil ACU (04...	16.000	289320905	100.072 PPM
18) H Mineral Oil Combo (02...	15.000	166992252	71.656 PPM
19) H Oil Acid Clean MO Com...	22.000	133905851	64.720 PPM
20) H Oil MO Combo (02-09-22)	22.000	133905851	73.512 PPM

(f)=RT Delta > 1/2 Window

(m)=manual Int.

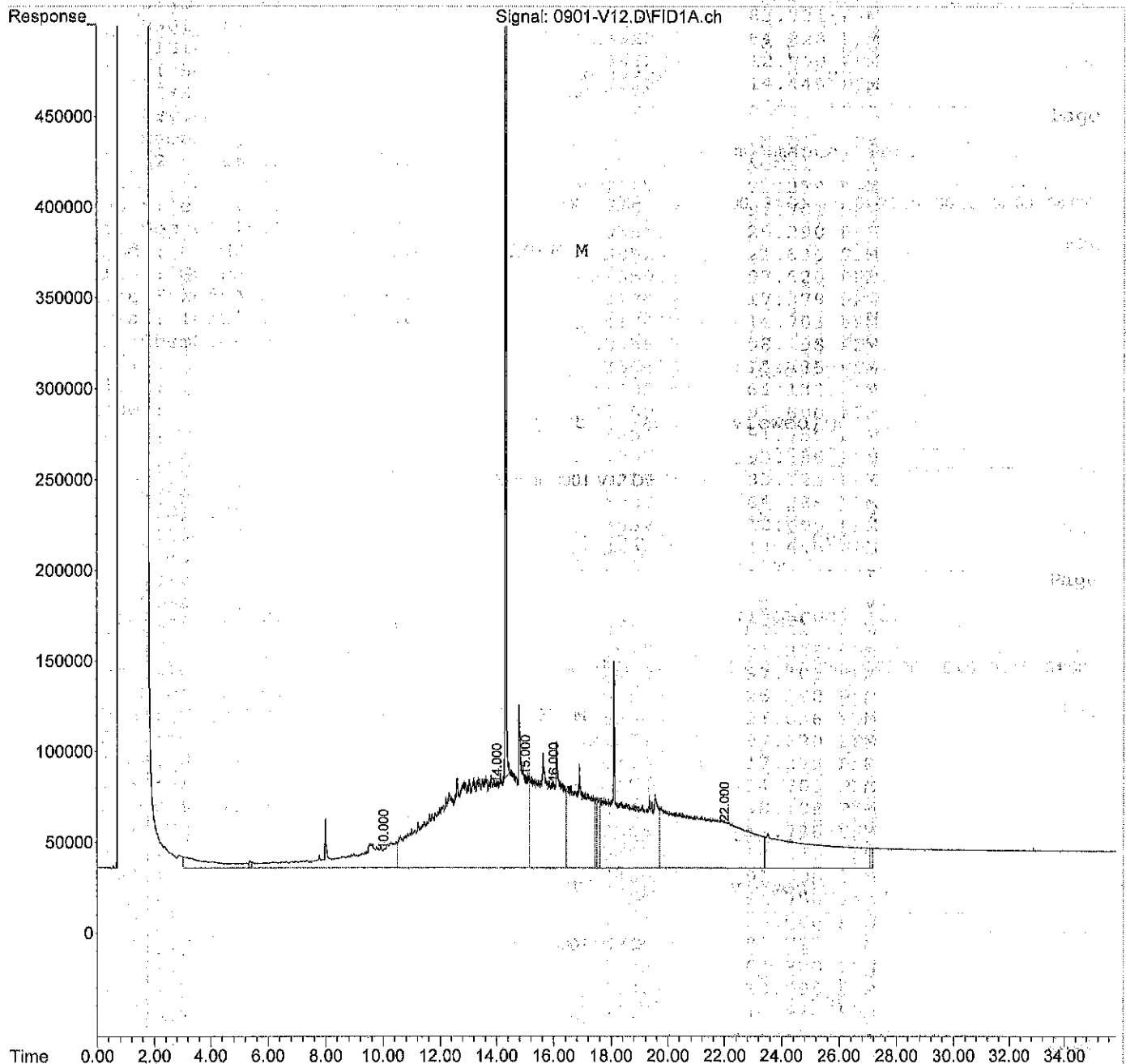
128868801	53.530 PPM
189138033	82.560 PPM
194716574	106.023 PPM
194716574	93.631 PPM
160811676	72.253 PPM
158300628	86.010 PPM
158300628	75.891 PPM
186700503	82.300 PPM
131560051	72.757 PPM
215148784	88.746 PPM
189138033	77.227 PPM
160811676	67.668 PPM
289320905	112.433 PPM
289320905	100.072 PPM
166992252	71.656 PPM
133905851	64.720 PPM
133905851	73.512 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V12.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 17:31
Operator : LIMS import
Sample : 08-268-05
Misc : Sample
ALS Vial : 12 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 18:08:00 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

viewed



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V65.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 19:34
 Operator : LIMS import
 Sample : 08-268-05 ACI
 Misc : RearSamp
 ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 20:11:27 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.232	130196182	52.414 PPM
Spiked Amount	50.000	Recovery	= 104.83%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	8604421	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	28965924	3.910 PPM
5) H Diesel Fuel #2 (05-1...	14.000	52123923	20.310 PPM
6) H Oil (08-31-22)	22.000	49056514	27.182 PPM
7) H Oil Acid Clean (08-31...	22.000	49056514	5.844 PPM
8) H Diesel Fuel #2 Combo ...	14.000	49334957	19.892 PPM
9) H Oil Combo (08-31-22)	22.000	23755305	9.481 PPM
10) H Oil Acid Clean Combo ...	22.000	23755305	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	51814378	20.422 PPM
12) H HAWAII 8015M Oil (08...	22.000	20854946	7.706 PPM
13) H Mineral Oil (05-19-21)	16.000	46784218	18.908 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	52123923	17.807 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	49334957	17.628 PPM
16) H Hydraulic Oil (02-25...	14.000	62984361	23.989 PPM
17) H Hydraulic Oil ACU (04...	14.000	62984361	11.981 PPM
18) H Mineral Oil Combo (05...	16.000	42585360	18.929 PPM
19) H Oil Acid Clean MO Com...	22.000	21257389	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	21257389	7.798 PPM
21) H JP-4 (03-24-21)	8.000	25225584	NoCal PPM
22) H JP-5 (03-25-21)	8.000	17478863	NoCal PPM
23) H JP-8 (03-26-21)	8.000	22406679	NoCal PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

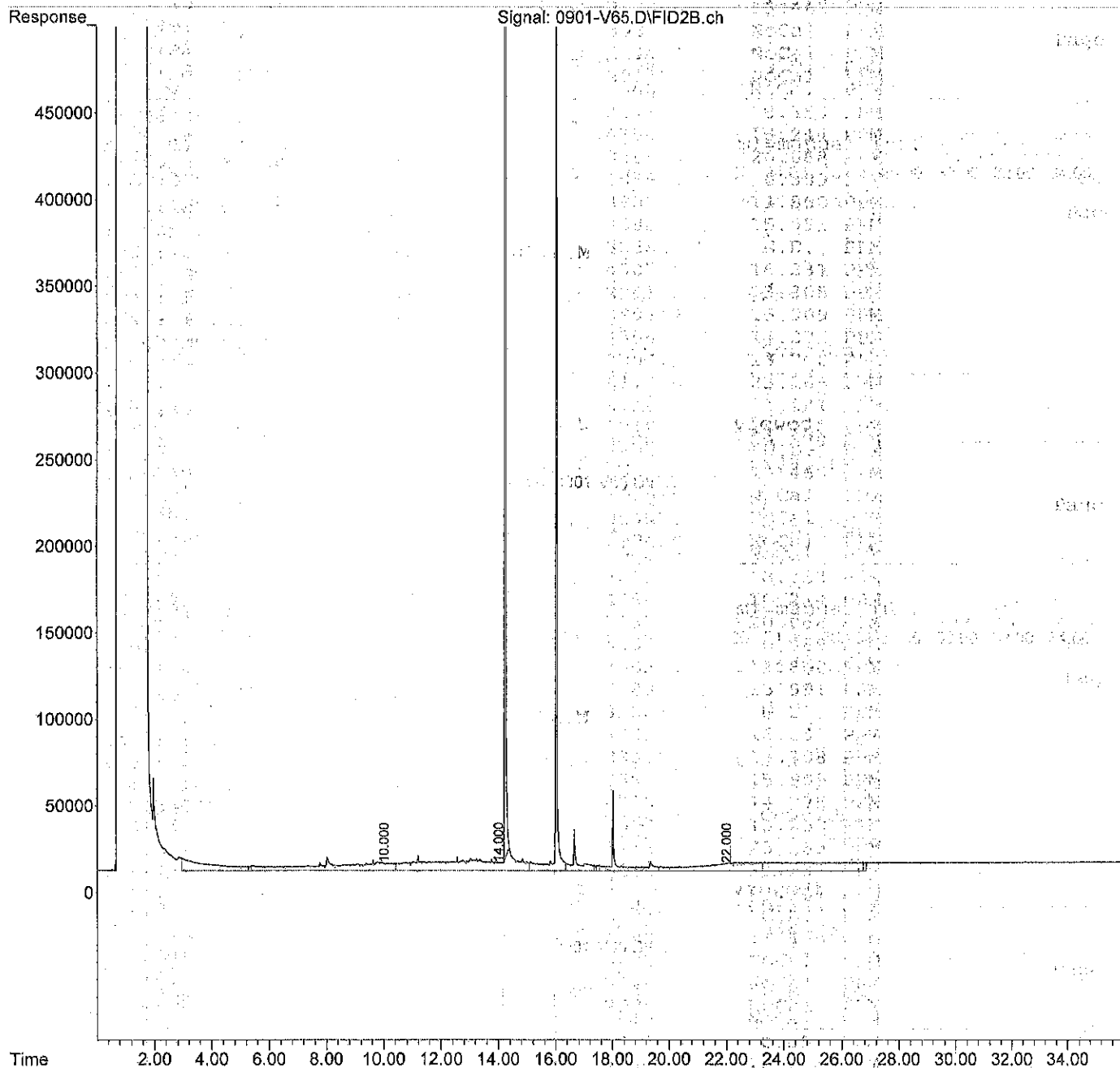
Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V65.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 19:34
Operator : LIMS import
Sample : 08-268-05 ACI
Misc : RearSamp
ALS Vial : 65 Sample Multiplier: 1

Page

Integration File: events.e
Quant Time: Sep 01 20:11:27 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

viewed)



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V13.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 18:12
 Operator : LIMS import
 Sample : 08-268-06
 Misc : Sample
 ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 18:48:56 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.316	143840044	49.320 PPM
Spiked Amount	50.000	Recovery	= 98.64%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	14682267	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	212578078	88.366 PPM
5) H Diesel Fuel #2 (02-0...	14.000	298507903	129.245 PPM
6) H Oil (02-09-22)	22.000	262288367	145.216 PPM
7) H Oil Acid Clean (02-2...	22.000	262288367	128.581 PPM
8) H Diesel Fuel #2 Combo ...	14.000	256945748	114.459 PPM
9) H Oil Combo (02-09-22)	22.000	207678427	115.084 PPM
10) H Oil Acid Clean Combo ...	22.000	207678427	101.812 PPM
11) H HAWAII 8015M DF2 (02...	14.000	294895807	128.960 PPM
12) H HAWAII 8015M Oil (02...	22.000	168585881	95.347 PPM
13) H Mineral Oil (02-09-22)	15.000	304748706	124.849 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	298507903	121.542 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	256945748	107.746 PPM
16) H Hydraulic Oil	16.000	428958080	168.666 PPM
17) H Hydraulic Oil ACU (04...	16.000	428958080	148.854 PPM
18) H Mineral Oil Combo (02...	15.000	239012758	101.774 PPM
19) H Oil Acid Clean MO Com...	22.000	171809816	85.165 PPM
20) H Oil MO Combo (02-09-22)	22.000	171809816	96.457 PPM

(f)=RT Delta > 1/2 Window

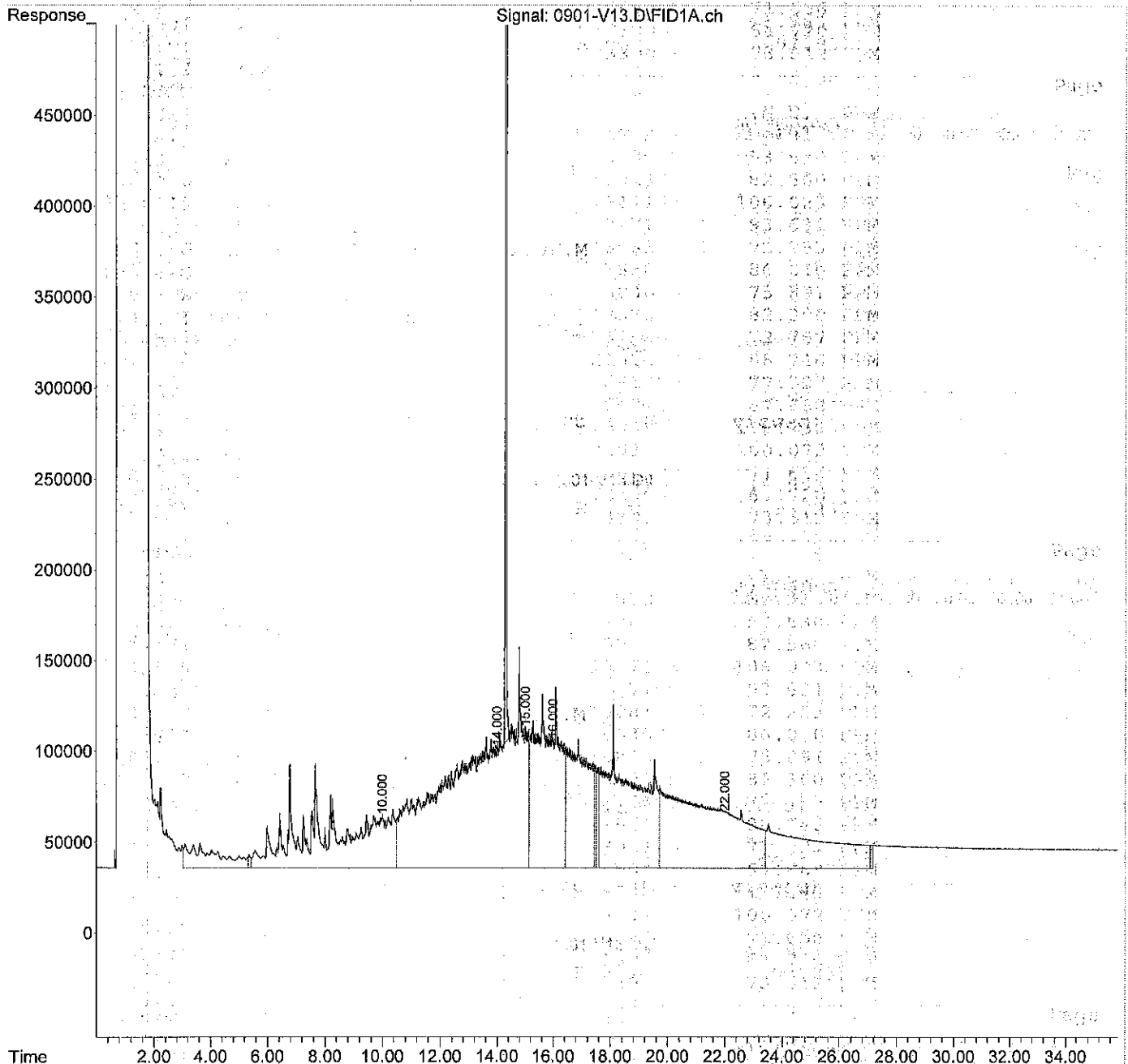
(m)=manual Int.

14682267	NoCal PPM
212578078	88.366 PPM
298507903	129.245 PPM
262288367	145.216 PPM
262288367	128.581 PPM
256945748	114.459 PPM
207678427	115.084 PPM
207678427	101.812 PPM
294895807	128.960 PPM
168585881	95.347 PPM
304748706	124.849 PPM
298507903	121.542 PPM
256945748	107.746 PPM
428958080	168.666 PPM
428958080	148.854 PPM
239012758	101.774 PPM
171809816	85.165 PPM
171809816	96.457 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V13.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 18:12
Operator : LIMS import
Sample : 08-268-06
Misc : Sample
ALS Vial : 13 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 18:48:56 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V66.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 20:15
 Operator : LIMS import
 Sample : 08-268-06 ACU
 Misc : RearSamp
 ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 20:52:21 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.234	140517294	56.545 PPM
Spiked Amount	50.000	Recovery	= 113.09%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17309366	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	54099375	15.706 PPM
5) H Diesel Fuel #2 (05-1...	14.000	51452397	19.991 PPM
6) H Oil (08-31-22)	22.000	25589286	10.747 PPM
7) H Oil Acid Clean (08-31...	22.000	25589286	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	49627456	20.035 PPM
9) H Oil Combo (08-31-22)	22.000	21187497	7.650 PPM
10) H Oil Acid Clean Combo ...	22.000	21187497	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	51005433	20.035 PPM
12) H HAWAII 8015M Oil (08-...	22.000	19223989	6.497 PPM
13) H Mineral Oil (05-19-21)	16.000	24467696	9.142 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	51452397	17.530 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	49627456	17.752 PPM
16) H Hydraulic Oil (02-25...	14.000	60723439	22.976 PPM
17) H Hydraulic Oil ACU (04...	14.000	60723439	11.059 PPM
18) H Mineral Oil Combo (05...	16.000	21321200	9.389 PPM
19) H Oil Acid Clean MO Com...	22.000	19604377	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	19604377	6.581 PPM
21) H JP-4 (03-24-21)	8.000	54167244	NoCal PPM
22) H JP-5 (03-25-21)	8.000	41163893	NoCal PPM
23) H JP-8 (03-26-21)	8.000	45845698	NoCal PPM

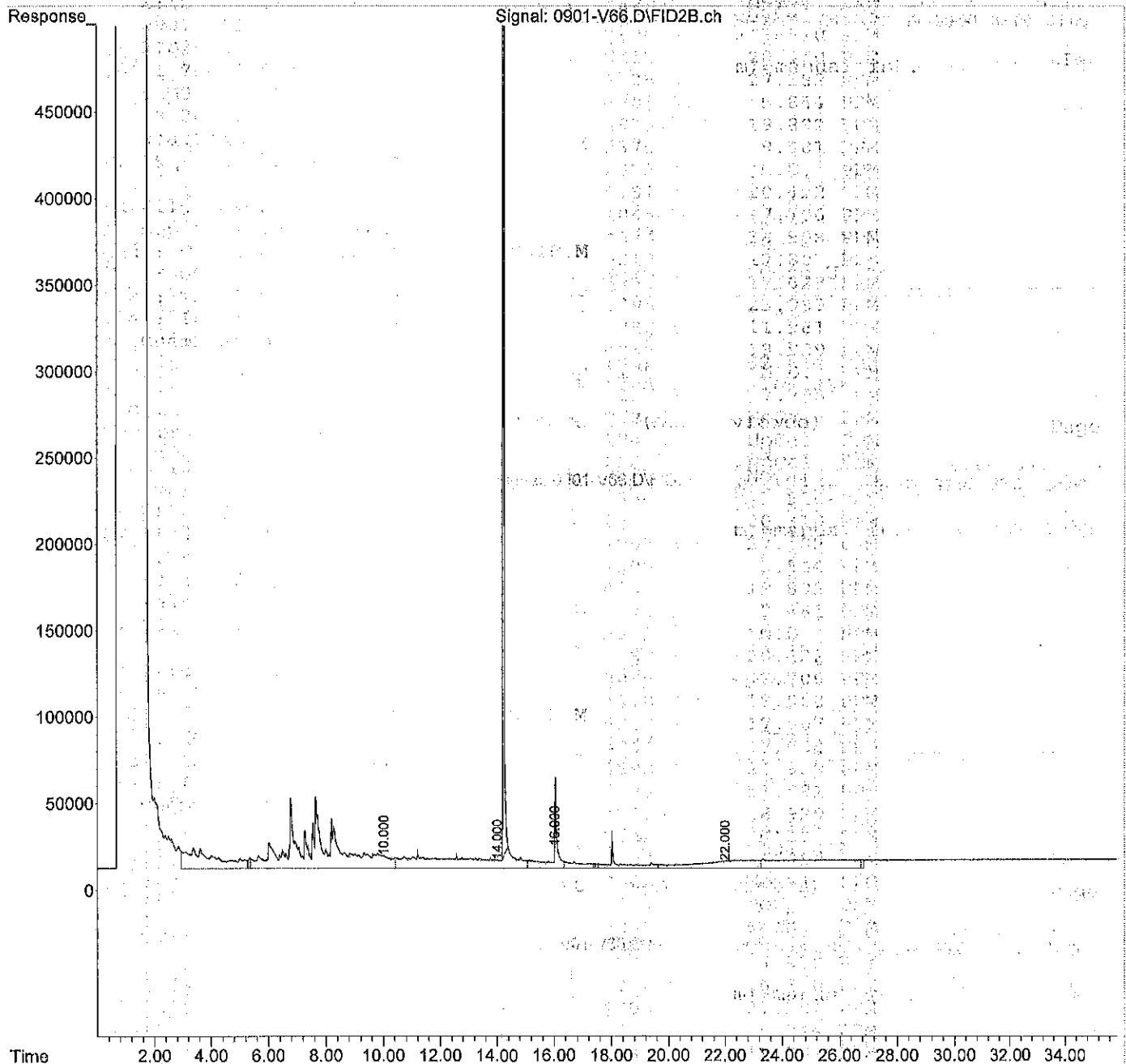
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V66.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 20:15
Operator : LIMS import
Sample : 08-268-06 ACU
Misc : RearSamp
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 20:52:21 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V14.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 18:53
 Operator : LIMS import
 Sample : 08-268-07
 Misc : Sample
 ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 19:29:53 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.315	138281914	47.419 PPM
Spiked Amount	50.000	Recovery =	94.84%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	7356516	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	117813088	48.929 PPM
5) H Diesel Fuel #2 (02-0...	14.000	194541442	684.866 PPM
6) H Oil (02-09-22)	22.000	270278568	149.851 PPM
7) H Oil Acid Clean (02-2...	22.000	270278568	132.714 PPM
8) H Diesel Fuel #2 Combo ...	14.000	156553694	70.384 PPM
9) H Oil Combo (02-09-22)	22.000	226282258	126.038 PPM
10) H Oil Acid Clean Combo ...	22.000	226282258	111.578 PPM
11) H HAWAII 8015M DF2 (02...	14.000	191259085	84.266 PPM
12) H HAWAII 8015M Oil (02...	22.000	190549225	109.747 PPM
13) H Mineral Oil (02-09-22)	15.000	242769514	99.875 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	194541442	79.416 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	156553694	65.893 PPM
16) H Hydraulic Oil	16.000	342843223	133.987 PPM
17) H Hydraulic Oil ACU (04...	16.000	342843223	118.770 PPM
18) H Mineral Oil Combo (02...	15.000	172161257	73.818 PPM
19) H Oil Acid Clean MO Com...	22.000	193733687	96.990 PPM
20) H Oil MO Combo (02-09-22)	22.000	193733687	109.728 PPM

(f)=RT Delta > 1/2 Window

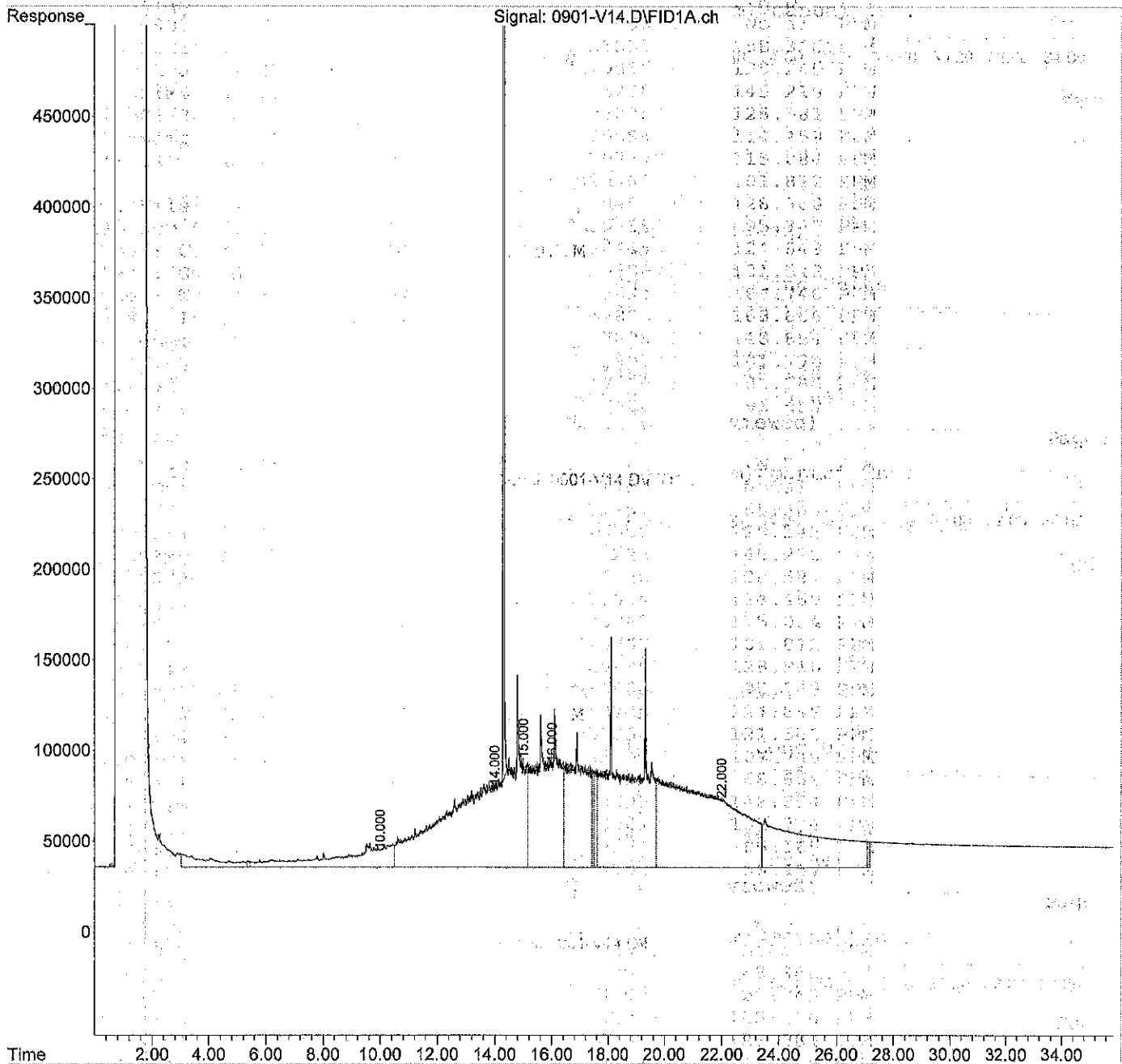
(m)=manual int.

7356516	NoCal PPM
117813088	48.929 PPM
194541442	684.866 PPM
270278568	149.851 PPM
270278568	132.714 PPM
156553694	70.384 PPM
226282258	126.038 PPM
226282258	111.578 PPM
191259085	84.266 PPM
190549225	109.747 PPM
242769514	99.875 PPM
194541442	79.416 PPM
156553694	65.893 PPM
342843223	133.987 PPM
342843223	118.770 PPM
172161257	73.818 PPM
193733687	96.990 PPM
193733687	109.728 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V14.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 18:53
Operator : LIMS import
Sample : 08-268-07
Misc : Sample
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 19:29:53 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V67.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 20:56
 Operator : LIMS import
 Sample : 08-268-07 ACU
 Misc : RearSamp
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 21:33:11 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.235	154360572	62.085 PPM
Spiked Amount	50.000	Recovery	= 124.17%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10481587	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	26739235	2.865 PPM
5) H Diesel Fuel #2 (05-1...	14.000	25159657	7.506 PPM
6) H Oil (08-31-22)	22.000	26977140	11.719 PPM
7) H Oil Acid Clean (08-31...	22.000	26977140	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	23232677	7.149 PPM
9) H Oil Combo (08-31-22)	22.000	24351670	9.906 PPM
10) H Oil Acid Clean Combo ...	22.000	24351670	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	24843731	7.514 PPM
12) H HAWAII 8015M Oil (08-...	22.000	22301119	8.779 PPM
13) H Mineral Oil (05-19-21)	16.000	21510067	7.848 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	25159657	6.685 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	23232677	6.542 PPM
16) H Hydraulic Oil (02-25...	14.000	37487008	12.572 PPM
17) H Hydraulic Oil ACU (04...	14.000	37487008	1.575 PPM
18) H Mineral Oil Combo (05...	16.000	16250051	7.114 PPM
19) H Oil Acid Clean MO Com...	22.000	22693443	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	22693443	8.854 PPM
21) H JP-4 (03-24-21)	8.000	25468280	NoCal PPM
22) H JP-5 (03-25-21)	8.000	15967610	NoCal PPM
23) H JP-8 (03-26-21)	8.000	19673286	NoCal PPM

(f)=RT Delta > 1/2 Window

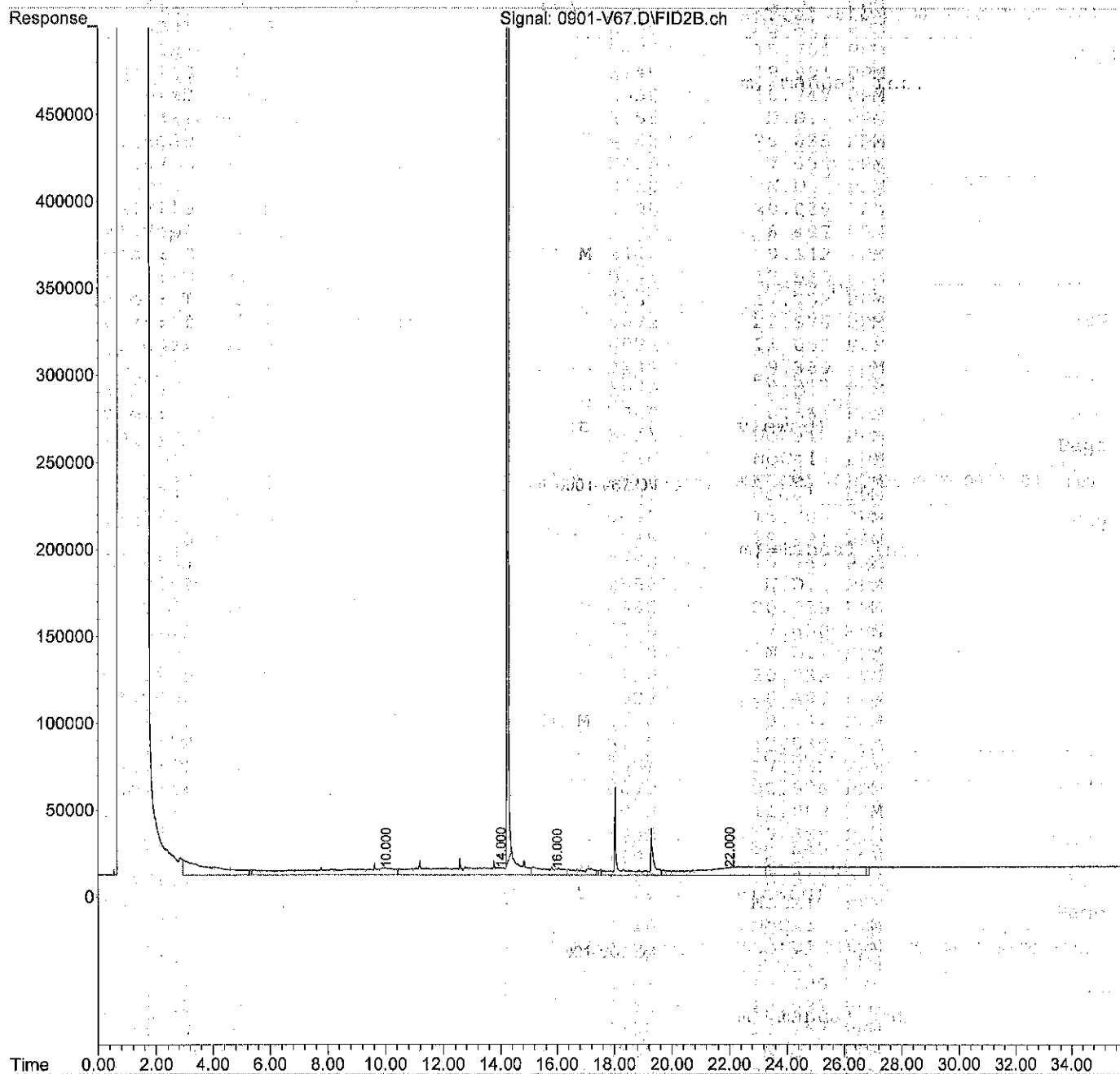
(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V67.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 20:56
Operator : LIMS import
Sample : 08-268-07 ACU
Misc : RearSamp
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 21:33:11 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

viewed)



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V15.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 19:34
 Operator : LIMS import
 Sample : 08-268-08
 Misc : Sample
 ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 20:10:48 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.315	137705362	47.222 PPM
Spiked Amount	50.000	Recovery =	94.44%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	5206083	NoCal PPM
4) H Diesel Fuel #1 (02-18-...)	10.000	35080325	14.499 PPM
5) H Diesel Fuel #2 (02-0-...)	14.000	49979237	23.158 PPM
6) H Oil (02-09-22)	22.000	94981484	48.174 PPM
7) H Oil Acid Clean (02-2-...)	22.000	94981484	42.044 PPM
8) H Diesel Fuel #2 Combo ...	14.000	41334629	19.800 PPM
9) H Oil Combo (02-09-22)	22.000	85028997	42.866 PPM
10) H Oil Acid Clean Combo ...	22.000	85028997	37.426 PPM
11) H HAWAII 8015M DF2 (02-...)	14.000	49168422	22.990 PPM
12) H HAWAII 8015M Oil (02-...)	22.000	76432078	39.122 PPM
13) H Mineral Oil (02-09-22)	15.000	58229227	25.517 PPM
14) H Diesel Fuel #2 ACU (0-...)	14.000	49979237	20.842 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	41334629	17.859 PPM
16) H Hydraulic Oil	16.000	99093880	35.828 PPM
17) H Hydraulic Oil ACU (04-...)	16.000	99093880	33.615 PPM
18) H Mineral Oil Combo (02-...)	15.000	40137669	18.508 PPM
19) H Oil Acid Clean MO Com...	22.000	77624269	34.363 PPM
20) H Oil MO Combo (02-09-22)	22.000	77624269	39.443 PPM

(f)=RT Delta > 1/2 Window

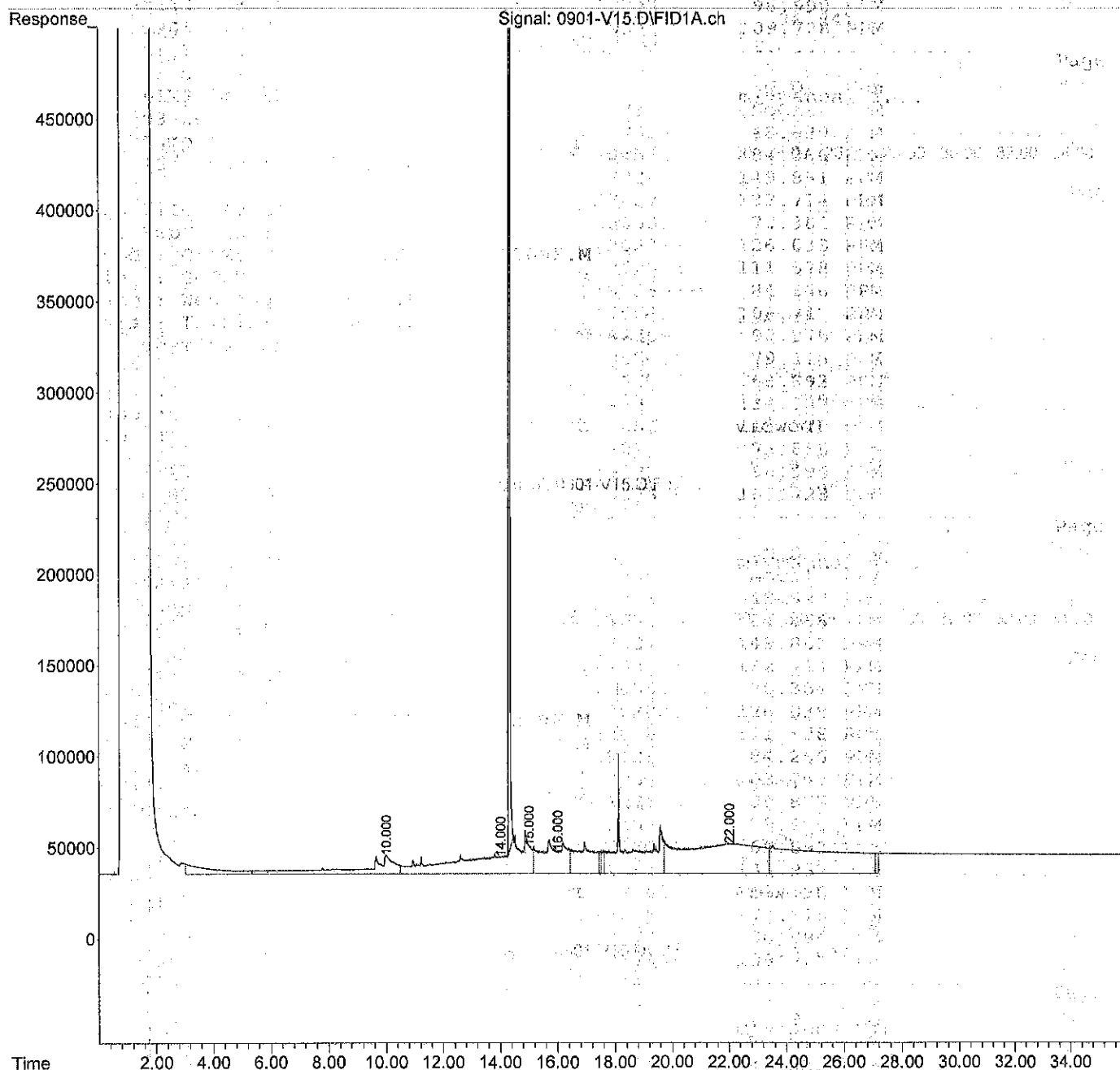
(m)=manual int.

35080325	14.499 PPM
49979237	23.158 PPM
94981484	48.174 PPM
94981484	42.044 PPM
41334629	19.800 PPM
85028997	42.866 PPM
85028997	37.426 PPM
49168422	22.990 PPM
76432078	39.122 PPM
58229227	25.517 PPM
49979237	20.842 PPM
41334629	17.859 PPM
99093880	35.828 PPM
99093880	33.615 PPM
40137669	18.508 PPM
77624269	34.363 PPM
77624269	39.443 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V15.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 19:34
Operator : LIMS import
Sample : 08-268-08
Misc : Sample
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 20:10:48 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V17.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 20:56
 Operator : LIMS import
 Sample : 08-268-08 ACU
 Misc : Sample
 ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 21:32:32 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.320	170690909	58.501 PPM
Spiked Amount	50.000	Recovery	= 117.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	5149138	No Cal 26 PPM
4) H Diesel Fuel #1 (02-18...	10.000	13562109	5.544 PPM
5) H Diesel Fuel #2 (02-0...	14.000	14109957	7.847 PPM
6) H Oil (02-09-22)	22.000	48423343	21.170 PPM
7) H Oil Acid Clean (02-2...	22.000	48423343	17.962 PPM
8) H Diesel Fuel #2 Combo ...	14.000	12082346	6.957 PPM
9) H Oil Combo (02-09-22)	22.000	46189269	19.997 PPM
10) H Oil Acid Clean Combo ...	22.000	46189269	17.037 PPM
11) H HAWAII 8015M DF2 (02...	14.000	13835348	7.752 PPM
12) H HAWAII 8015M Oil (02...	22.000	43775386	19.198 PPM
13) H Mineral Oil (02-09-22)	15.000	16325502	8.632 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	14109957	6.308 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	12082346	5.864 PPM
16) H Hydraulic Oil	16.000	36400934	10.582 PPM
17) H Hydraulic Oil ACU (04...	16.000	36400934	11.713 PPM
18) H Mineral Oil Combo (02...	15.000	10475893	6.205 PPM
19) H Oil Acid Clean MO Com...	22.000	44466397	18.478 PPM
20) H Oil MO Combo (02-09-22)	22.000	44466397	19.371 PPM

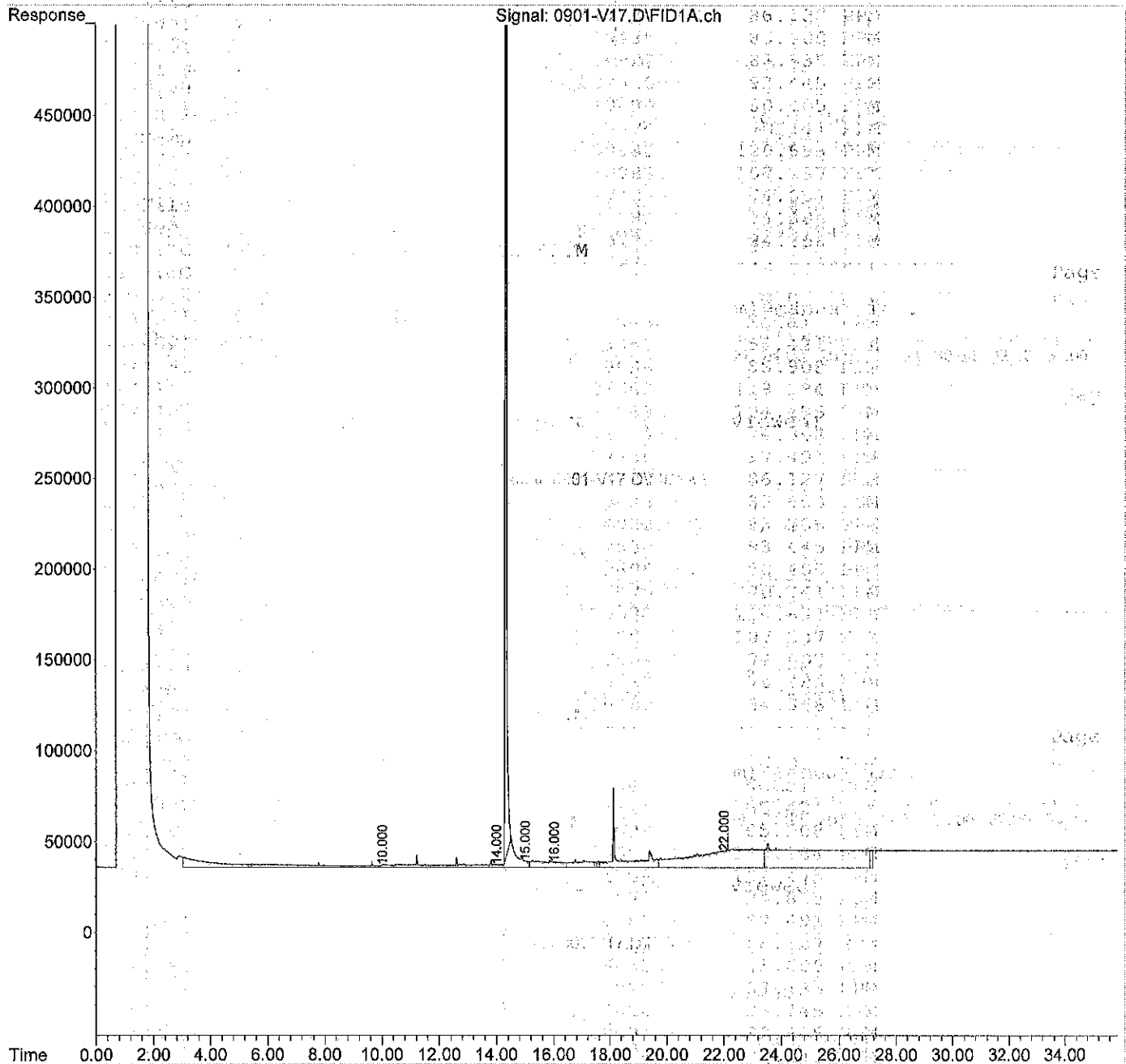
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V17.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 20:56
Operator : LIMS import
Sample : 08-268-08 ACU
Misc : Sample
ALS Vial : 17 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 21:32:32 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V16.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 20:15
 Operator : LIMS import
 Sample : 08-268-09
 Misc : Sample
 ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 20:51:42 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.316	139893818	47.970 PPM
Spiked Amount	50.000	Recovery	= 95.94%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	6488098	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	133412362	55.421 PPM
5) H Diesel Fuel #2 (02-0...	14.000	196981963	85.908 PPM
6) H Oil (02-09-22)	22.000	215683346	118.184 PPM
7) H Oil Acid Clean (02-2...	22.000	215683346	104.475 PPM
8) H Diesel Fuel #2 Combo ...	14.000	166743806	74.858 PPM
9) H Oil Combo (02-09-22)	22.000	177800570	97.491 PPM
10) H Oil Acid Clean Combo ...	22.000	177800570	86.127 PPM
11) H HAWAII 8015M DF2 (02...	14.000	194352884	85.600 PPM
12) H HAWAII 8015M Oil (02...	22.000	149225387	83.535 PPM
13) H Mineral Oil (02-09-22)	15.000	226809961	93.445 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	196981963	80.405 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	166743806	70.141 PPM
16) H Hydraulic Oil	16.000	309831311	120.693 PPM
17) H Hydraulic Oil ACU (04...	16.000	309831311	107.237 PPM
18) H Mineral Oil Combo (02...	15.000	174048644	74.607 PPM
19) H Oil Acid Clean MO Com...	22.000	151823031	74.385 PPM
20) H Oil MO Combo (02-09-22)	22.000	151823031	84.358 PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

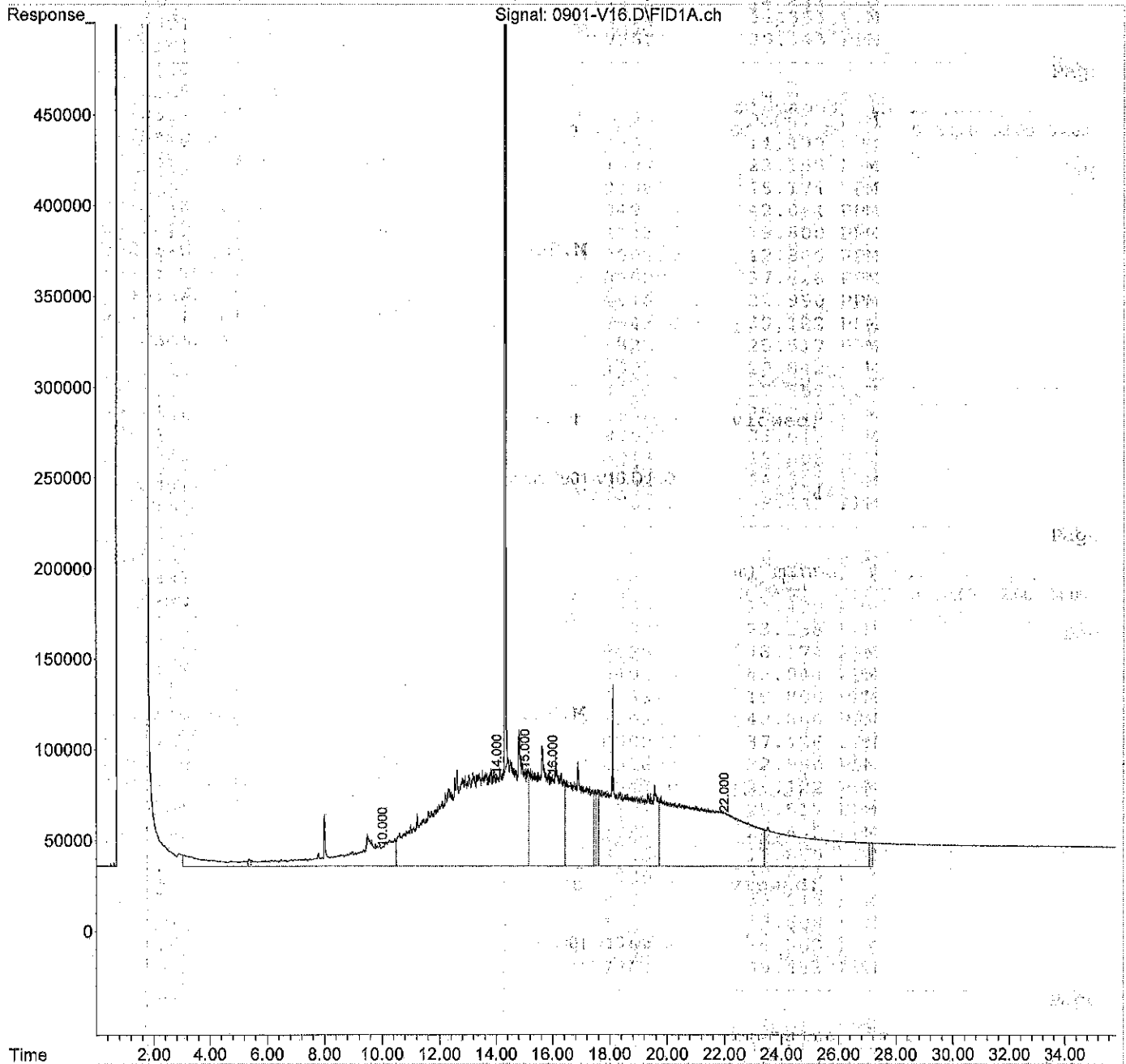
6488098	NoCal	PPM
133412362	55.421	PPM
196981963	85.908	PPM
215683346	118.184	PPM
215683346	104.475	PPM
166743806	74.858	PPM
177800570	97.491	PPM
177800570	86.127	PPM
194352884	85.600	PPM
149225387	83.535	PPM
226809961	93.445	PPM
196981963	80.405	PPM
166743806	70.141	PPM
309831311	120.693	PPM
309831311	107.237	PPM
174048644	74.607	PPM
151823031	74.385	PPM
151823031	84.358	PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V16.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 20:15
Operator : LIMS import
Sample : 08-268-09
Misc : Sample
ALS Vial : 16 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 20:51:42 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

viewed)



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V18.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 21:37
 Operator : LIMS import
 Sample : 08-268-09 ACU
 Misc : Sample
 ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 22:13:50 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.317	150733361	51.677 PPM
Spiked Amount	50.000	Recovery	= 103.35%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	5621944	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	23749472	9.784 PPM
5) H Diesel Fuel #2 (02-0...	14.000	24940980	12.471 PPM
6) H Oil (02-09-22)	22.000	42941439	17.990 PPM
7) H Oil Acid Clean (02-2...	22.000	42941439	15.126 PPM
8) H Diesel Fuel #2 Combo ...	14.000	22777982	11.653 PPM
9) H Oil Combo (02-09-22)	22.000	39917578	16.304 PPM
10) H Oil Acid Clean Combo ...	22.000	39917578	13.744 PPM
11) H HAWAII 8015M DF2 (02...	14.000	24592542	12.391 PPM
12) H HAWAII 8015M Oil (02...	22.000	37426386	15.324 PPM
13) H Mineral Oil (02-09-22)	15.000	22265268	11.025 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	24940980	10.697 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	22777982	10.123 PPM
16) H Hydraulic Oil	16.000	43088095	13.275 PPM
17) H Hydraulic Oil ACU (04...	16.000	43088095	14.049 PPM
18) H Mineral Oil Combo (02...	15.000	17336654	9.074 PPM
19) H Oil Acid Clean MO Com...	22.000	38068790	13.028 PPM
20) H Oil MO Combo (02-09-22)	22.000	38068790	15.498 PPM

(f)=RT Delta > 1/2 Window

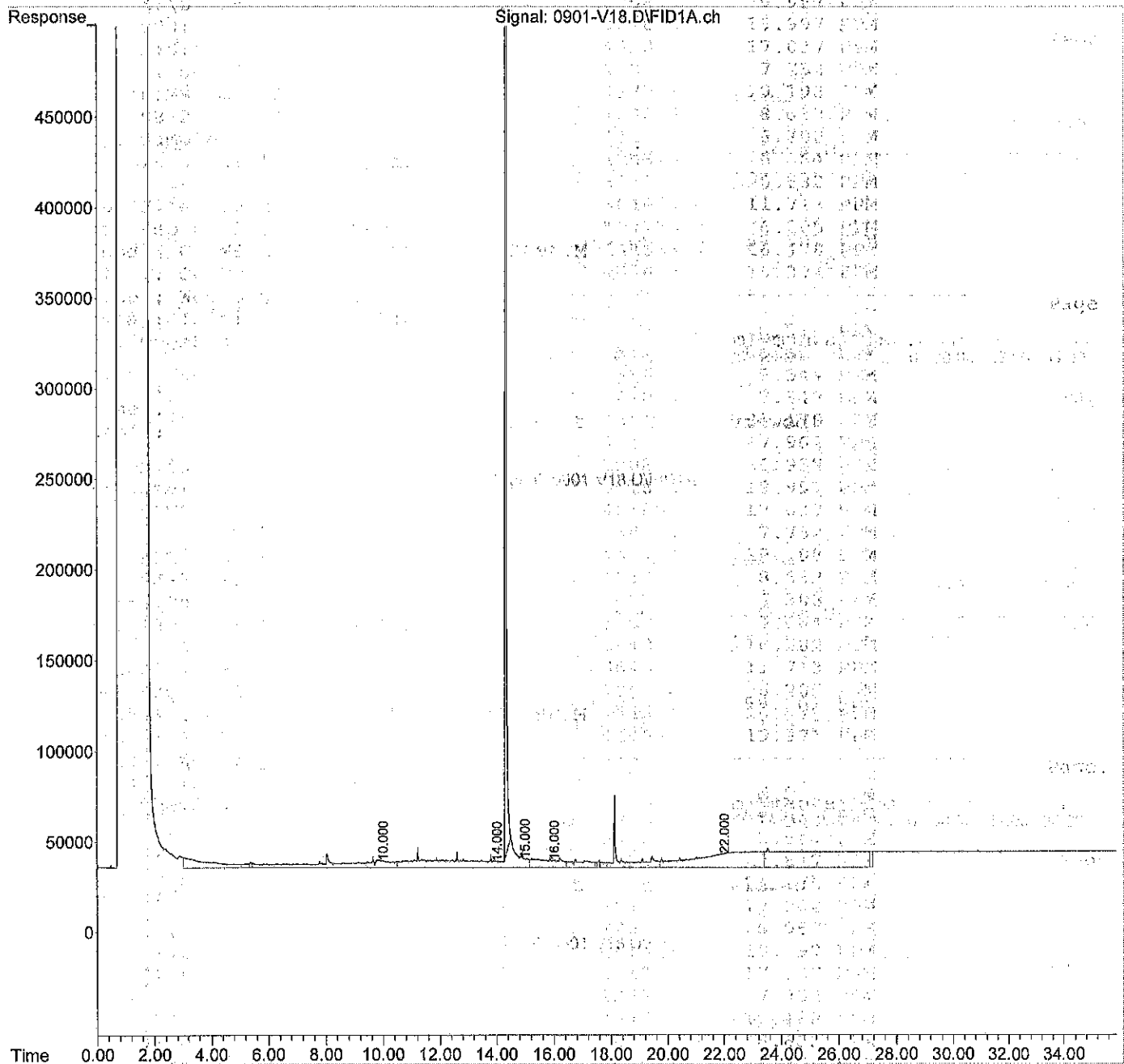
(m)=manual int

5621944	NoCal	PPM
23749472	9.784	PPM
24940980	12.471	PPM
42941439	17.990	PPM
42941439	15.126	PPM
22777982	11.653	PPM
39917578	16.304	PPM
39917578	13.744	PPM
24592542	12.391	PPM
37426386	15.324	PPM
22265268	11.025	PPM
24940980	10.697	PPM
22777982	10.123	PPM
43088095	13.275	PPM
43088095	14.049	PPM
17336654	9.074	PPM
38068790	13.028	PPM
38068790	15.498	PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V18.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 21:37
Operator : LIMS import
Sample : 08-268-09 ACU
Misc : Sample
ALS Vial : 18 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 22:13:50 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V03.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 11:15
 Operator : LIMS import
 Sample : MB0830W2
 Misc : Sample
 ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 11:51:37 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.323	170155376	58.317 PPM
Spiked Amount	50.000	Recovery	=1116.63%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	ND PPM
3) H Gasoline	3.500	6293604	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	24539786	10.113 PPM
5) H Diesel Fuel #2 (02-0...	14.000	26680010	13.213 PPM
6) H Oil (02-09-22)	22.000	43581199	18.361 PPM
7) H Oil Acid Clean (02-2...	22.000	43581199	15.457 PPM
8) H Diesel Fuel #2 Combo ...	14.000	23663988	12.042 PPM
9) H Oil Combo (02-09-22)	22.000	39977940	16.339 PPM
10) H Oil Acid Clean Combo ...	22.000	39977940	13.776 PPM
11) H HAWAII 8015M DF2 (02...	14.000	26283126	13.120 PPM
12) H HAWAII 8015M Oil (02...	22.000	36776801	14.928 PPM
13) H Mineral Oil (02-09-22)	15.000	24692320	12.003 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	26680010	11.401 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	23663988	10.493 PPM
16) H Hydraulic Oil	16.000	47078826	14.882 PPM
17) H Hydraulic Oil ACU (04...	16.000	47078826	15.444 PPM
18) H Mineral Oil Combo (02...	15.000	17651281	9.205 PPM
19) H Oil Acid Clean MO Com...	22.000	37403820	12.669 PPM
20) H Oil MO Combo (02-09-22)	22.000	37403820	15.096 PPM

(f)=RT Delta > 1/2 Window

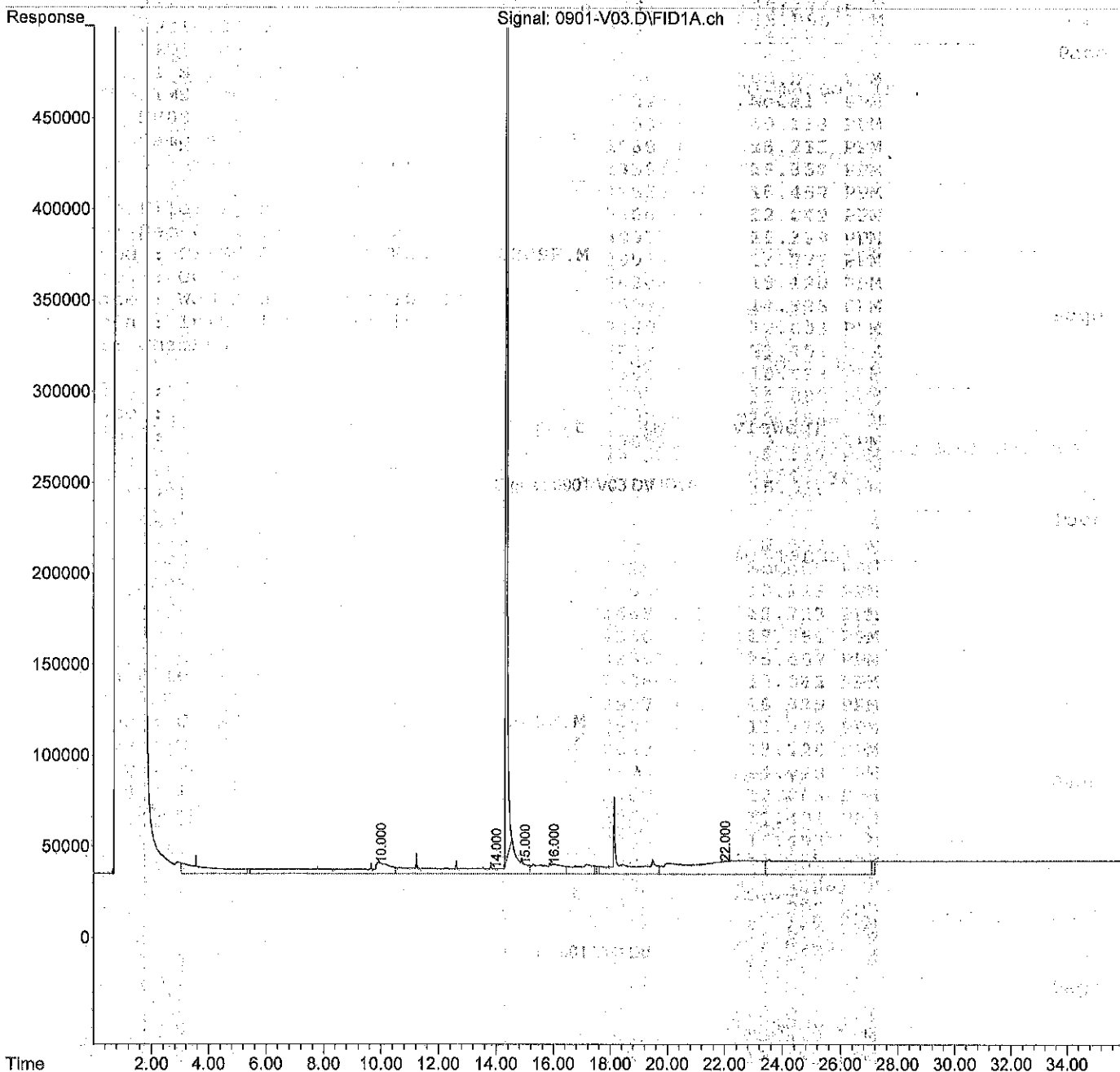
(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V03.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 11:15
Operator : LIMS import
Sample : MB0830W2
Misc : Sample
ALS Vial : 3 Sample Multiplier: 1

Page:

Integration File: events.e
Quant Time: Sep 01 11:51:37 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V56.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 13:26
 Operator : LIMS import
 Sample : MB0830W2 ACU
 Misc : RearSamp
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 14:02:59 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.240	196564636	78.976 PPM
Spiked Amount	50.000	Recovery	= 157.95%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	9103309	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	20101422	N.D. PPM
5) H Diesel Fuel #2 (05-1...	14.000	19190606	4.672 PPM
6) H Oil (08-31-22)	22.000	33355763	16.186 PPM
7) H Oil Acid Clean (08-31...	22.000	33355763	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	16996016	4.105 PPM
9) H Oil Combo (08-31-22)	22.000	31118272	14.732 PPM
10) H Oil Acid Clean Combo ...	22.000	31118272	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	18859300	4.650 PPM
12) H HAWAII 8015M Oil (08-...	22.000	28758776	13.566 PPM
13) H Mineral Oil (05-19-21)	16.000	18235743	6.415 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	19190606	4.223 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	16996016	3.893 PPM
16) H Hydraulic Oil (02-25...	14.000	35128806	11.516 PPM
17) H Hydraulic Oil ACU (04...	14.000	35128806	0.613 PPM
18) H Mineral Oil Combo (05...	16.000	12458492	5.413 PPM
19) H Oil Acid Clean MO Com...	22.000	29255322	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	29255322	13.683 PPM
21) H JP-4 (03-24-21)	8.000	19907863	NoCal PPM
22) H JP-5 (03-25-21)	8.000	11674513	NoCal PPM
23) H JP-8 (03-26-21)	8.000	13891307	NoCal PPM

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V04.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 11:56
 Operator : LIMS import
 Sample : SB0830W2
 Misc : Sample
 ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 12:32:20 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.317	139427433	47.811 PPM
Spiked Amount	50.000	Recovery =	95.62%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	10058313	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	175258267	72.835 PPM
5) H Diesel Fuel #2 (02-0...	14.000	191948310	83.759 PPM
6) H Oil (02-09-22)	22.000	50091807	22.137 PPM
7) H Oil Acid Clean (02-2...	22.000	50091807	18.825 PPM
8) H Diesel Fuel #2 Combo ...	14.000	184860304	82.811 PPM
9) H Oil Combo (02-09-22)	22.000	33716281	12.652 PPM
10) H Oil Acid Clean Combo ...	22.000	33716281	10.489 PPM
11) H HAWAII 8015M DF2 (02...	14.000	191215996	84.248 PPM
12) H HAWAII 8015M Oil (02...	22.000	26777582	8.827 PPM
13) H Mineral Oil (02-09-22)	15.000	151881401	63.253 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	191948310	78.366 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	184860304	77.694 PPM
16) H Hydraulic Oil	16.000	206629263	79.133 PPM
17) H Hydraulic Oil ACU (04...	16.000	206629263	71.183 PPM
18) H Mineral Oil Combo (02...	15.000	144936752	62.433 PPM
19) H Oil Acid Clean MO Com...	22.000	27418756	7.283 PPM
20) H Oil MO Combo (02-09-22)	22.000	27418756	9.052 PPM

(f)=RT Delta > 1/2 Window

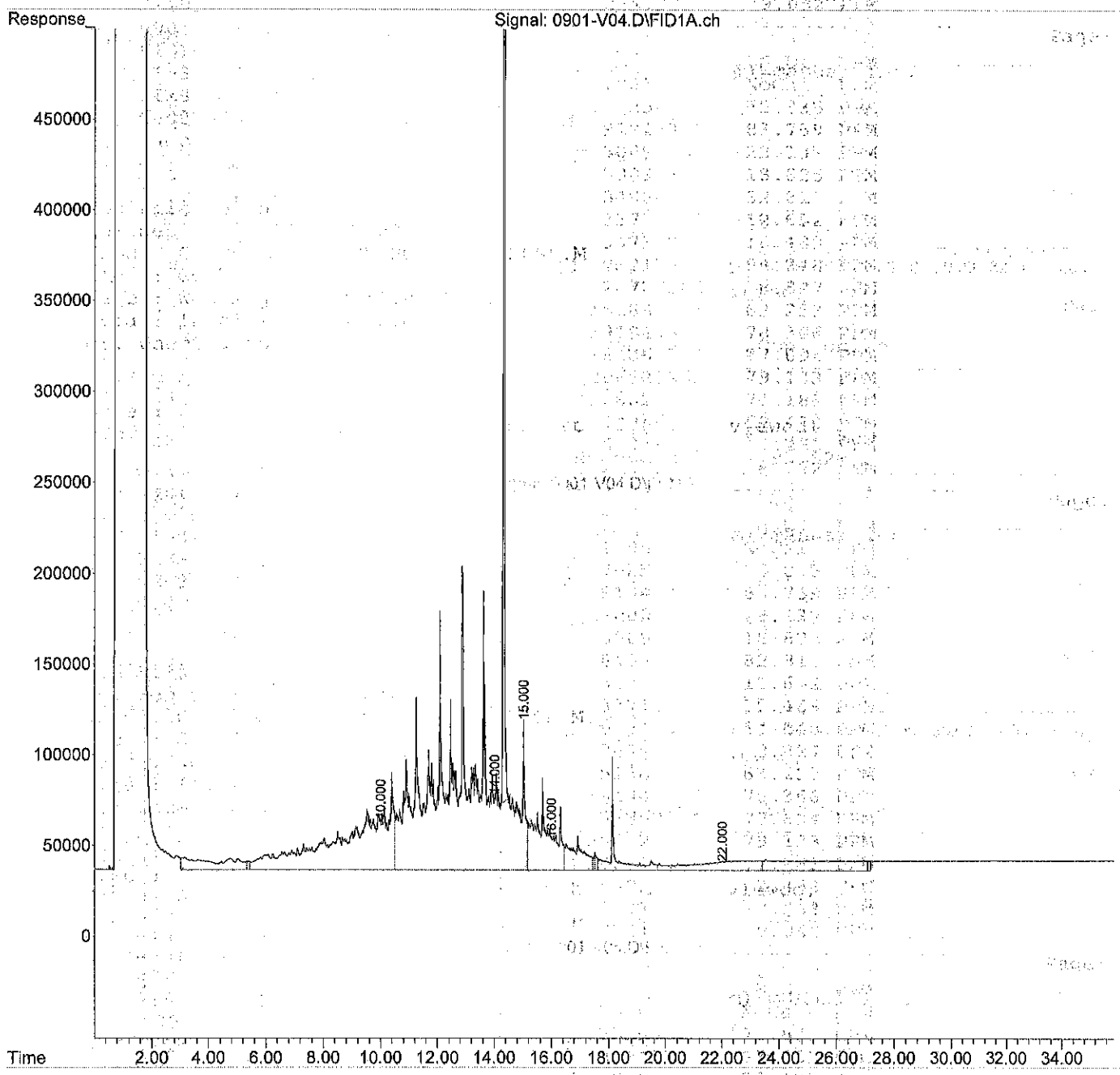
(m)=manual int.

		10058313	NoCal PPM
		175258267	72.835 PPM
		191948310	83.759 PPM
		50091807	22.137 PPM
		50091807	18.825 PPM
		184860304	82.811 PPM
		33716281	12.652 PPM
		33716281	10.489 PPM
		191215996	84.248 PPM
		26777582	8.827 PPM
		151881401	63.253 PPM
		191948310	78.366 PPM
		184860304	77.694 PPM
		206629263	79.133 PPM
		206629263	71.183 PPM
		144936752	62.433 PPM
		27418756	7.283 PPM
		27418756	9.052 PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V04.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 11:56
Operator : LIMS import
Sample : SB0830W2
Misc : Sample
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 12:32:20 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V57.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 14:07
 Operator : LIMS import
 Sample : SB0830W2 ACU
 Misc : RearSamp
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 14:43:48 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCIPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.236	157005260	63.143 PPM
Spiked Amount	50.000	Recovery	= 126.29%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	16527222	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	201472421	84.877 PPM
5) H Diesel Fuel #2 (05-1...	14.000	217865175	99.009 PPM
6) H Oil (08-31-22)	22.000	50862757	28.447 PPM
7) H Oil Acid Clean (08-31...	22.000	50862757	5.814 PPM
8) H Diesel Fuel #2 Combo ...	14.000	210334285	98.488 PPM
9) H Oil Combo (08-31-22)	22.000	33537158	16.457 PPM
10) H Oil Acid Clean Combo ...	22.000	33537158	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	217067184	99.512 PPM
12) H HAWAII 8015M Oil (08-...	22.000	26156172	11.636 PPM
13) H Mineral Oil (05-19-21)	16.000	170689693	73.129 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	217865175	86.171 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	210334285	86.007 PPM
16) H Hydraulic Oil (02-25...	14.000	232378390	99.835 PPM
17) H Hydraulic Oil ACU (04...	14.000	232378390	81.114 PPM
18) H Mineral Oil Combo (05...	16.000	163533595	73.194 PPM
19) H Oil Acid Clean MO Com...	22.000	26844431	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	26844431	11.909 PPM
21) H JP-4 (03-24-21)	8.000	129092170	NoCal PPM
22) H JP-5 (03-25-21)	8.000	119419403	NoCal PPM
23) H JP-8 (03-26-21)	8.000	173576118	NoCal PPM

(f)=RT Delta > 1/2 Window

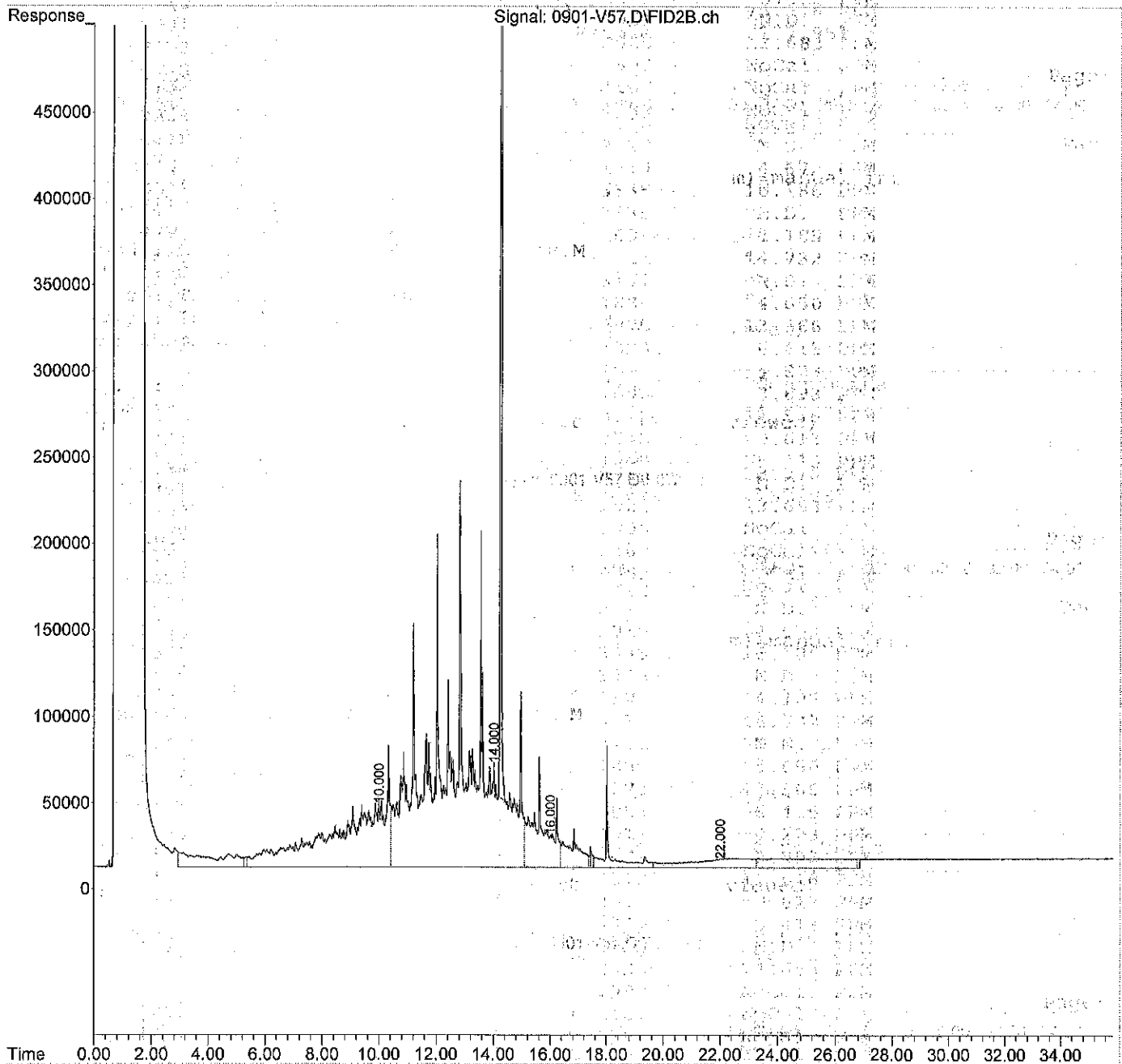
(m)=manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V57.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 14:07
Operator : LIMS import
Sample : SB0830W2 ACU
Misc : RearSamp
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 14:43:48 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

viewed)



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V05.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 12:37
 Operator : LIMS import
 Sample : SB0830W2 DUP
 Misc : Sample
 ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 13:13:06 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	14.317	145875463	50.016 PPM
Spiked Amount	50.000	Recovery	= 100.03%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	11153707	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	192955223	80.200 PPM
5) H Diesel Fuel #2 (02-0...	14.000	210373283	91.624 PPM
6) H Oil (02-09-22)	22.000	51270783	22.821 PPM
7) H Oil Acid Clean (02-2...	22.000	51270783	19.435 PPM
8) H Diesel Fuel #2 Combo ...	14.000	202912931	90.737 PPM
9) H Oil Combo (02-09-22)	22.000	33861605	12.738 PPM
10) H Oil Acid Clean Combo ...	22.000	33861605	10.565 PPM
11) H HAWAII 8015M DF2 (02...	14.000	209587493	92.170 PPM
12) H HAWAII 8015M Oil (02...	22.000	26578421	8.705 PPM
13) H Mineral Oil (02-09-22)	15.000	162997610	67.732 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	210373283	85.831 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	202912931	85.220 PPM
16) H Hydraulic Oil	16.000	224984055	86.525 PPM
17) H Hydraulic Oil ACU (04...	16.000	224984055	77.595 PPM
18) H Mineral Oil Combo (02...	15.000	156087237	67.096 PPM
19) H Oil Acid Clean MO Com...	22.000	27231618	7.182 PPM
20) H Oil MO Combo (02-09-22)	22.000	27231618	8.938 PPM

(f)=RT Delta > 1/2 Window

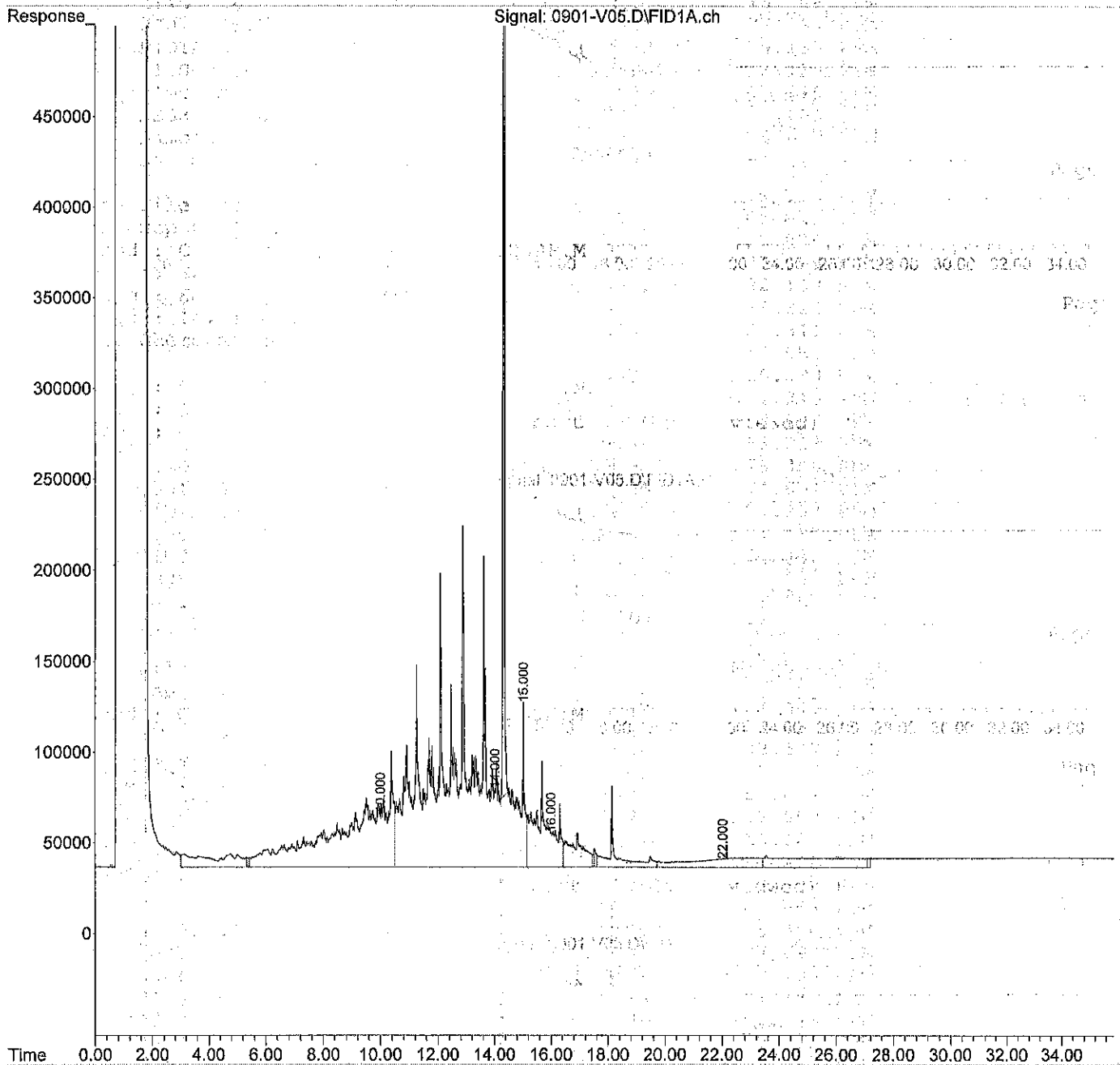
(m)=manual int.

1115	NoCal	PPM
1115	NoCal	PPM
192955	80.200	PPM
210373	91.624	PPM
512707	22.821	PPM
512707	19.435	PPM
202912	90.737	PPM
338616	12.738	PPM
338616	10.565	PPM
209587	92.170	PPM
265784	8.705	PPM
162997	67.732	PPM
210373	85.831	PPM
202912	85.220	PPM
224984	86.525	PPM
224984	77.595	PPM
156087	67.096	PPM
272316	7.182	PPM
272316	8.938	PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V05.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 12:37
Operator : LIMS import
Sample : SB0830W2 DUP
Misc : Sample
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 13:13:06 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V58.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 14:48
 Operator : LIMS import
 Sample : SBV0830-DUP ACU
 Misc : RearSamp
 ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 15:24:41 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	14.237	165523196	66.552 PPM
Spiked Amount	50.000	Recovery =	133.10%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	17905471	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	220443792	93.781 PPM
5) H Diesel Fuel #2 (05-1...	14.000	236774218	107.987 PPM
6) H Oil (08-31-22)	22.000	48634327	26.886 PPM
7) H Oil Acid Clean (08-31...	22.000	48634327	5.617 PPM
8) H Diesel Fuel #2 Combo ...	14.000	229272039	107.733 PPM
9) H Oil Combo (08-31-22)	22.000	30771101	14.484 PPM
10) H Oil Acid Clean Combo ...	22.000	30771101	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	235950150	108.549 PPM
12) H HAWAII 8015M Oil (08...	22.000	23445662	9.627 PPM
13) H Mineral Oil (05-19-21)	16.000	181893686	78.032 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	236774218	93.971 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	229272039	94.050 PPM
16) H Hydraulic Oil (02-25...	14.000	249458474	107.482 PPM
17) H Hydraulic Oil ACU (04...	14.000	249458474	88.085 PPM
18) H Mineral Oil Combo (05...	16.000	175626329	78.619 PPM
19) H Oil Acid Clean MO Com...	22.000	24098164	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	24098164	9.888 PPM
21) H JP-4 (03-24-21)	8.000	142890708	NoCal PPM
22) H JP-5 (03-25-21)	8.000	132850581	NoCal PPM
23) H JP-8 (03-26-21)	8.000	191194952	NoCal PPM

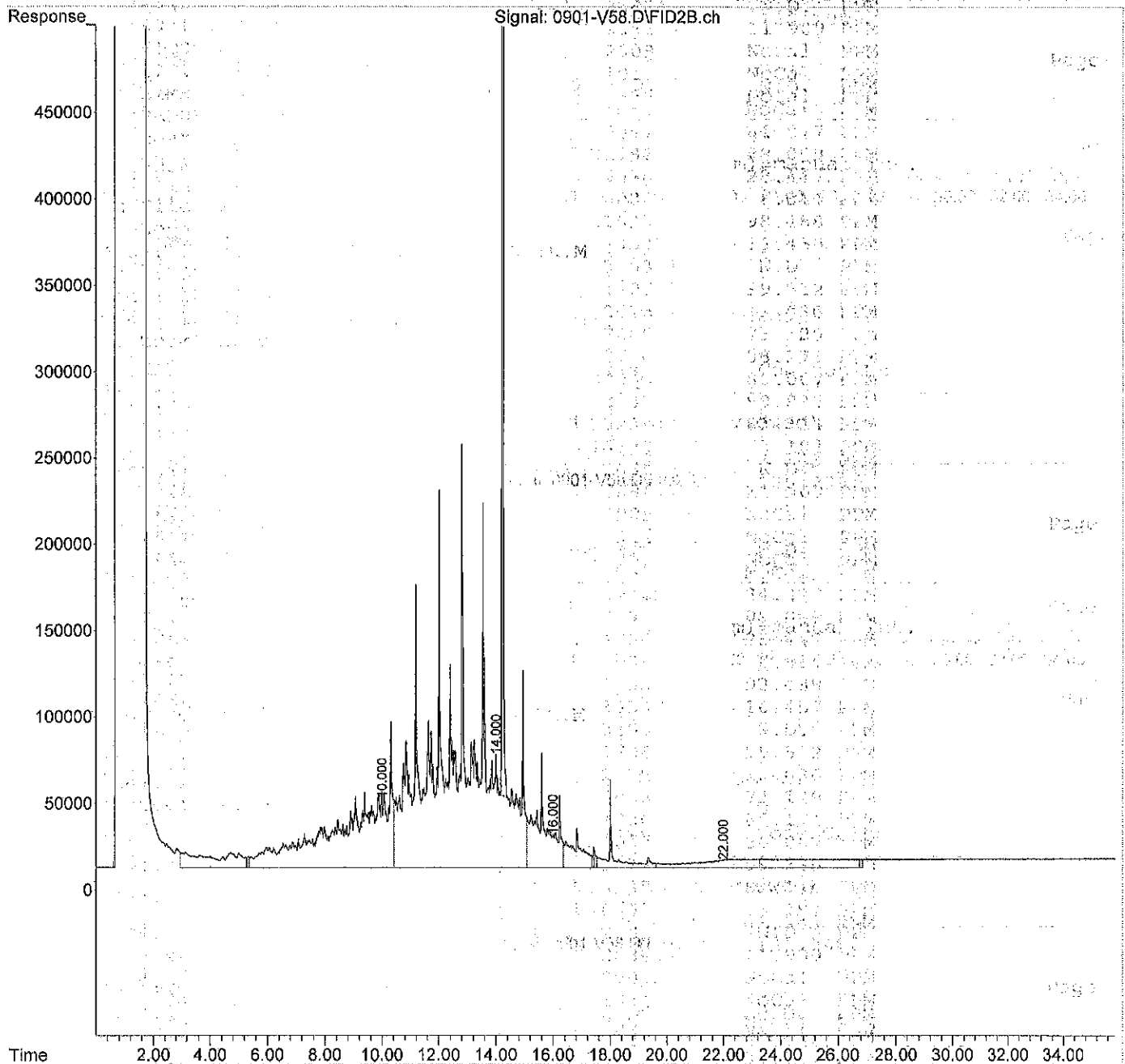
(f)=RT Delta > 1/2 Window

(m)=manual Int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V58.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 14:48
Operator : LIMS import
Sample : SEW0830, DUP ACU *WV a-2*
Misc : RearSamp
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 15:24:41 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V52.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 10:16
 Operator : LIMS import
 Sample : CCV0901R-V1
 Misc : RearSamp
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 10:53:17 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery =	0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	29292009	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	215255593	91.346 PPM
5) H Diesel Fuel #2 (05-1...	14.000	217960340	99.054 PPM
6) H Oil (08-31-22)	22.000	42463813	22.565 PPM
7) H Oil Acid Clean (08-31...	22.000	42463813	2.303 PPM
8) H Diesel Fuel #2 Combo ...	14.000	212793942	99.689 PPM
9) H Oil Combo (08-31-22)	22.000	29843078	13.822 PPM
10) H Oil Acid Clean Combo ...	22.000	29843078	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	217116204	99.535 PPM
12) H HAWAII 8015M Oil (08...	22.000	24623069	10.500 PPM
13) H Mineral Oil (05-19-21)	16.000	147269393	62.881 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	217960340	86.210 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	212793942	87.052 PPM
16) H Hydraulic Oil (02-25...	14.000	229845636	98.701 PPM
17) H Hydraulic Oil ACU (04...	14.000	229845636	80.080 PPM
18) H Mineral Oil Combo (05...	16.000	143512309	64.211 PPM
19) H Oil Acid Clean MO Com...	22.000	25168730	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	25168730	10.676 PPM
21) H JP-4 (03-24-21)	8.000	157671528	NoCal PPM
22) H JP-5 (03-25-21)	8.000	143396715	NoCal PPM
23) H JP-8 (03-26-21)	8.000	188877937	NoCal PPM

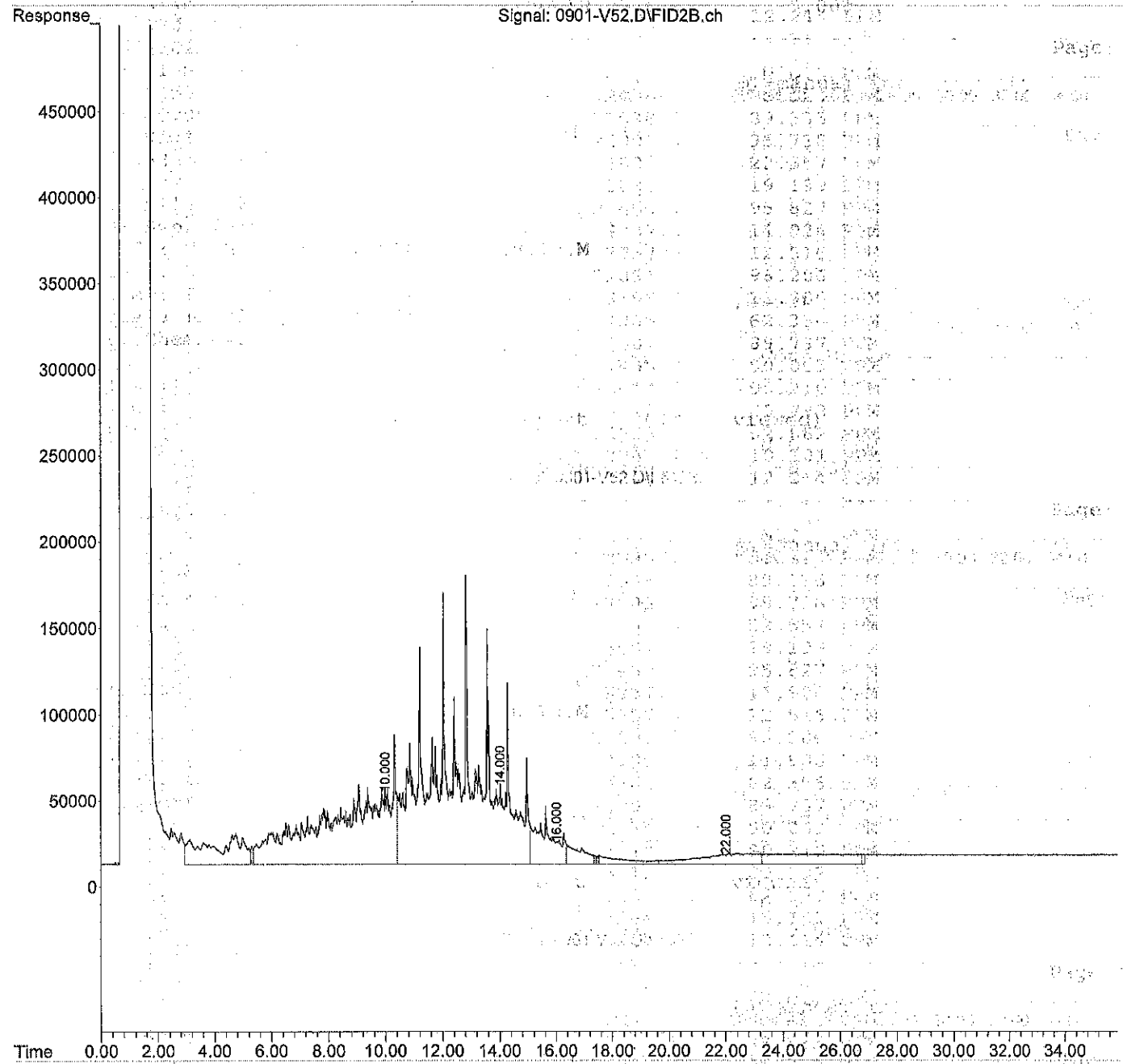
(f)=RT Delta > 1/2 Window

(m)=manual int

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V52.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 10:16
Operator : LIMS import
Sample : CCV0901R-V1
Misc : RearSamp
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 10:53:17 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V61.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 16:50
 Operator : LIMS import
 Sample : CCV0901R-V2
 Misc : RearSamp
 ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 17:27:50 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	28709993	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	213781105	90.654 PPM
5) H Diesel Fuel #2 (05-1...	14.000	216412025	98.319 PPM
6) H Oil (08-31-22)	22.000	36244761	18.209 PPM
7) H Oil Acid Clean (08-31...	22.000	36244761	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	211479628	99.047 PPM
9) H Oil Combo (08-31-22)	22.000	23788298	9.505 PPM
10) H Oil Acid Clean Combo ...	22.000	23788298	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	215566081	98.793 PPM
12) H HAWAII 8015M Oil (08-...	22.000	18868510	6.234 PPM
13) H Mineral Oil (05-19-21)	16.000	145566978	62.136 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	216412025	85.572 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	211479628	86.494 PPM
16) H Hydraulic Oil (02-25...	14.000	224743588	96.416 PPM
17) H Hydraulic Oil ACU (04...	14.000	224743588	77.998 PPM
18) H Mineral Oil Combo (05...	16.000	142437632	63.729 PPM
19) H Oil Acid Clean MO Com...	22.000	19340025	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	19340025	6.387 PPM
21) H JP-4 (03-24-21)	8.000	156136472	NoCal PPM
22) H JP-5 (03-25-21)	8.000	142432643	NoCal PPM
23) H JP-8 (03-26-21)	8.000	187684545	NoCal PPM

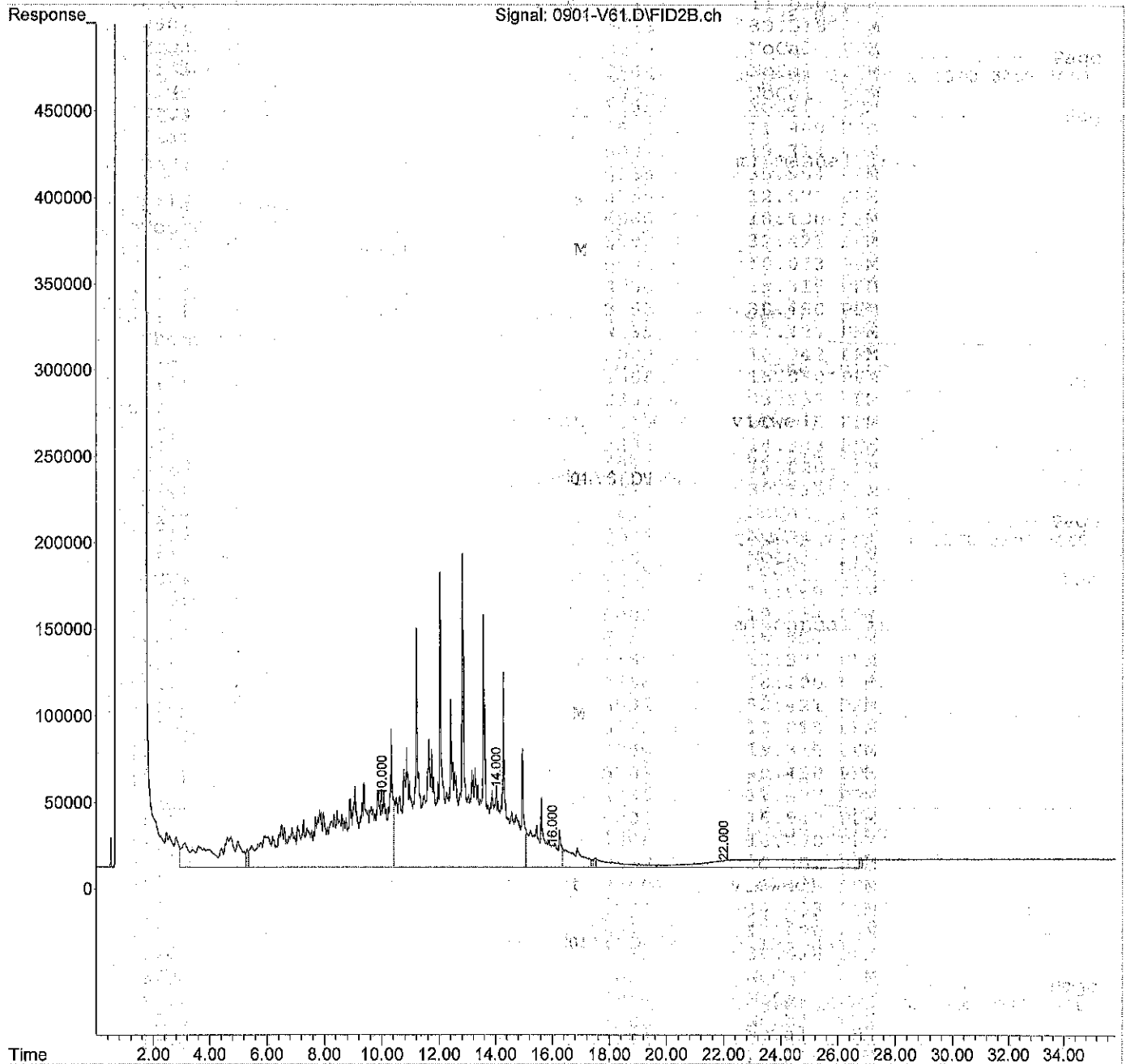
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
Data File : 0901-V61.D
Signal(s) : FID2B.ch
Acq On : 1 Sep 2022 16:50
Operator : LIMS import
Sample : CCV0901R-V2
Misc : RearSamp
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 17:27:50 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
Quant Title : GCTPH
QLast Update : Thu Sep 01 09:22:03 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V70.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 22:59
 Operator : LIMS import
 Sample : CCV0901R-V3
 Misc : RearSamp
 ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 23:36:00 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-19-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	30061240	NoCal PPM
4) H Diesel Fuel #1 (03-23...	10.000	217017694	92.173 PPM
5) H Diesel Fuel #2 (05-1...	14.000	218762574	99.435 PPM
6) H Oil (08-31-22)	22.000	35087473	17.399 PPM
7) H Oil Acid Clean (08-31...	22.000	35087473	N.D. PPM
8) H Diesel Fuel #2 Combo ...	14.000	213897893	100.228 PPM
9) H Oil Combo (08-31-22)	22.000	22627658	8.677 PPM
10) H Oil Acid Clean Combo ...	22.000	22627658	N.D. PPM
11) H HAWAII 8015M DF2 (05-...	14.000	217909066	99.914 PPM
12) H HAWAII 8015M Oil (08...	22.000	17771887	5.421 PPM
13) H Mineral Oil (05-19-21)	16.000	146535610	62.560 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	218762574	86.541 PPM
15) H Diesel Fuel #2 ACU Co...	14.000	213897893	87.521 PPM
16) H Hydraulic Oil (02-25...	14.000	226455001	97.183 PPM
17) H Hydraulic Oil ACU (04...	14.000	226455001	78.697 PPM
18) H Mineral Oil Combo (05...	16.000	143602482	64.251 PPM
19) H Oil Acid Clean MO Com...	22.000	18227631	N.D. PPM
20) H Oil MO Combo (08-31-22)	22.000	18227631	5.568 PPM
21) H JP-4 (03-24-21)	8.000	159458456	NoCal PPM
22) H JP-5 (03-25-21)	8.000	144756140	NoCal PPM
23) H JP-8 (03-26-21)	8.000	190431445	NoCal PPM

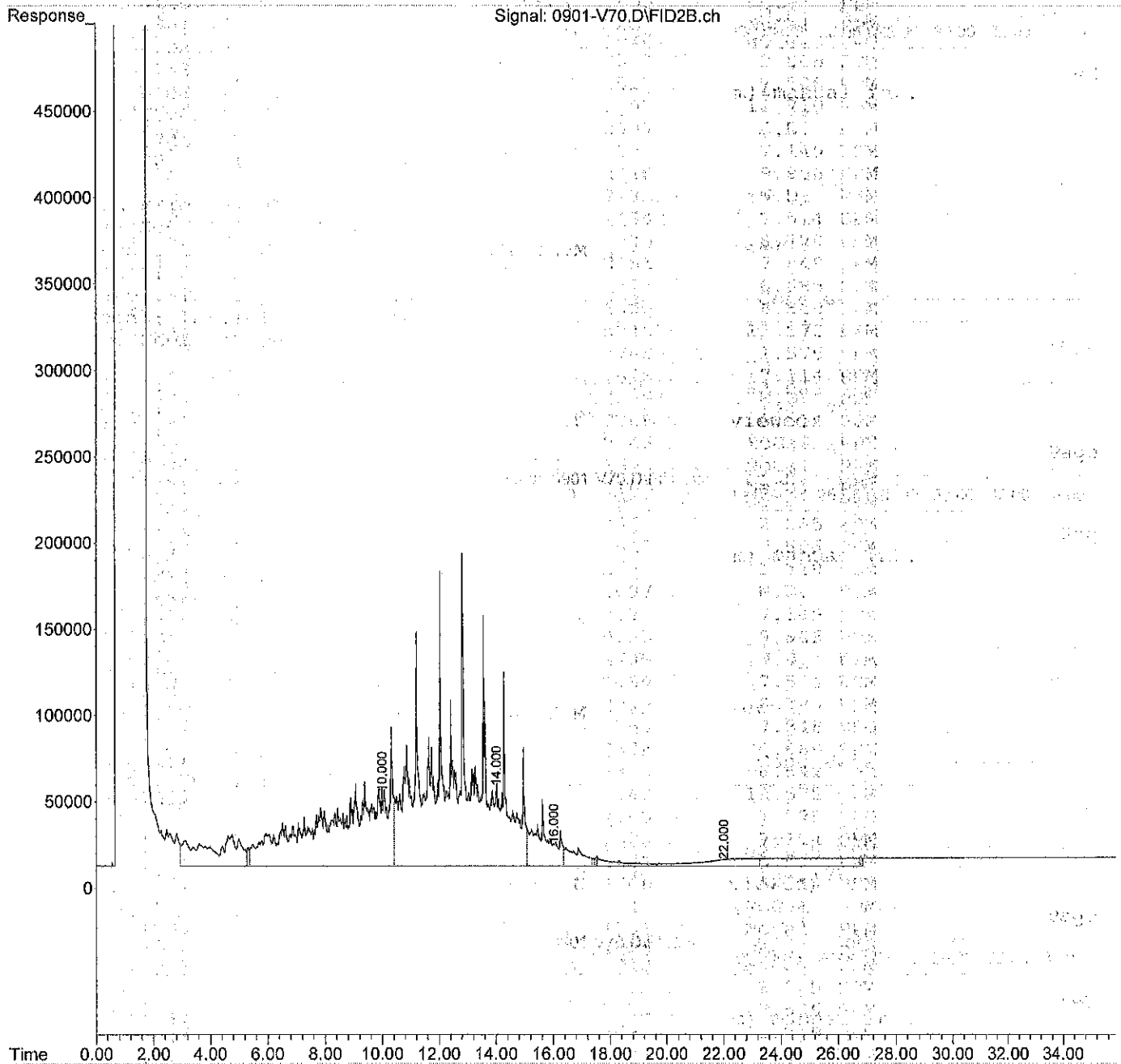
(f)=RT Delta > 1/2 Window

(m)=manual Int.

Data Path : X:\DIESELS\Vigo\Data\V220901.SEC\
 Data File : 0901-V70.D
 Signal(s) : FID2B.ch
 Acq On : 1 Sep 2022 22:59
 Operator : LIMS import
 Sample : CCV0901R-V3
 Misc : RearSamp
 ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 23:36:00 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220831R.M
 Quant Title : GCTPH
 QLast Update : Thu Sep 01 09:22:03 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V02.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 10:16
 Operator : LIMS import
 Sample : CCV0901F-V1
 Misc : Sample
 ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 10:52:38 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-Terphenyl (05-21-21)	0.000	0	N.D.	PPM
Spiked Amount	50.000	Recovery	=	0.00%
Target Compounds				
2) 1-Chlorooctadecane	0.000	0	N.D.	PPM
3) H Gasoline	3.500	21674404	NoCal	PPM
4) H Diesel Fuel #1 (02-18...	10.000	219479022	91.238	PPM
5) H Diesel Fuel #2 (02-0...	14.000	224609728	97.701	PPM
6) H Oil (02-09-22)	22.000	55526891	25.290	PPM
7) H Oil Acid Clean (02-2...	22.000	55526891	21.636	PPM
8) H Diesel Fuel #2 Combo ...	14.000	218591691	97.620	PPM
9) H Oil Combo (02-09-22)	22.000	41744274	17.379	PPM
10) H Oil Acid Clean Combo ...	22.000	41744274	14.703	PPM
11) H HAWAII 8015M DF2 (02...	14.000	223563568	98.198	PPM
12) H HAWAII 8015M Oil (02...	22.000	35643846	14.236	PPM
13) H Mineral Oil (02-09-22)	15.000	154057434	64.130	PPM
14) H Diesel Fuel #2 ACU (0...	14.000	224609728	91.600	PPM
15) H Diesel Fuel #2 ACU CO...	14.000	218591691	91.756	PPM
16) H Hydraulic Oil	16.000	242518463	93.586	PPM
17) H Hydraulic Oil ACU (04...	16.000	242518463	83.721	PPM
18) H Mineral Oil Combo (02...	15.000	149228075	64.228	PPM
19) H Oil Acid Clean MO Com...	22.000	36329873	12.090	PPM
20) H Oil MO Combo (02-09-22)	22.000	36329873	14.446	PPM

(f) = RT Delta > 1/2 Window

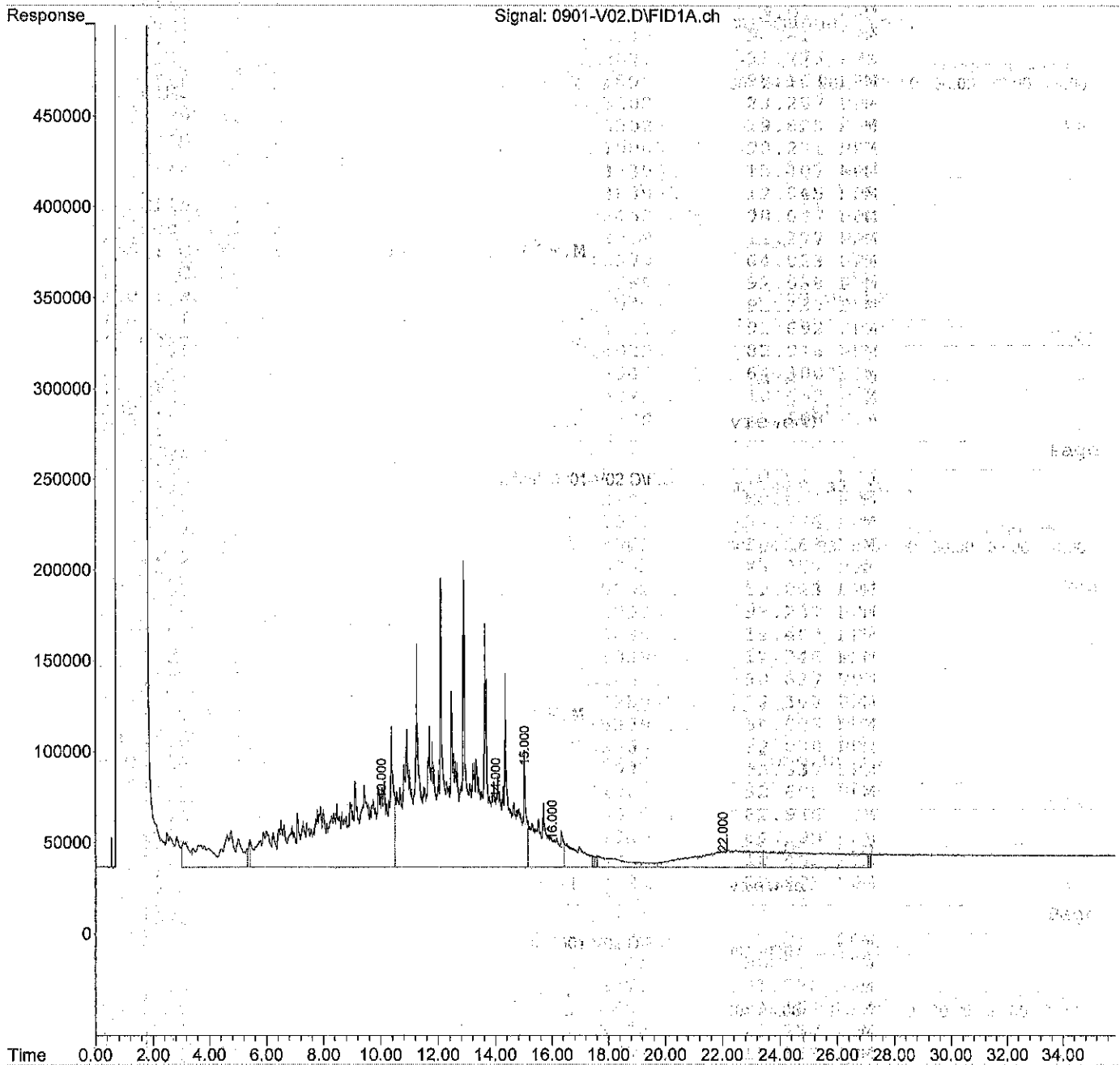
(m) = manual int.

2167	NoCal	PPM
219479022	91.238	PPM
224609728	97.701	PPM
55526891	25.290	PPM
55526891	21.636	PPM
218591691	97.620	PPM
41744274	17.379	PPM
41744274	14.703	PPM
223563568	98.198	PPM
35643846	14.236	PPM
154057434	64.130	PPM
224609728	91.600	PPM
218591691	91.756	PPM
242518463	93.586	PPM
242518463	83.721	PPM
149228075	64.228	PPM
36329873	12.090	PPM
36329873	14.446	PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V02.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 10:16
Operator : LIMS import
Sample : CCV0901F-V1
Misc : Sample
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 10:52:38 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V11.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 16:50
 Operator : LIMS import
 Sample : CCV0901F-V2
 Misc : Sample
 ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 17:27:10 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	21419914	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	220771090	91.776 PPM
5) H Diesel Fuel #2 (02-0...	14.000	225690811	98.163 PPM
6) H Oil (02-09-22)	22.000	52022119	23.257 PPM
7) H Oil Acid Clean (02-2...	22.000	52022119	19.823 PPM
8) H Diesel Fuel #2 Combo ...	14.000	219983857	98.231 PPM
9) H Oil Combo (02-09-22)	22.000	38395262	15.407 PPM
10) H Oil Acid Clean Combo ...	22.000	38395262	12.945 PPM
11) H HAWAII 8015M DF2 (02...	14.000	224583076	98.637 PPM
12) H HAWAII 8015M Oil (02...	22.000	32597042	12.377 PPM
13) H Mineral Oil (02-09-22)	15.000	153792721	64.023 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	225690811	92.038 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	219983857	92.337 PPM
16) H Hydraulic Oil	16.000	240299447	82.946 PPM
17) H Hydraulic Oil ACU (04...	16.000	240299447	82.946 PPM
18) H Mineral Oil Combo (02...	15.000	149401707	64.300 PPM
19) H Oil Acid Clean MO Com...	22.000	33293104	12.608 PPM
20) H Oil MO Combo (02-09-22)	22.000	33293104	12.608 PPM

(f) = RT Delta > 1/2 Window

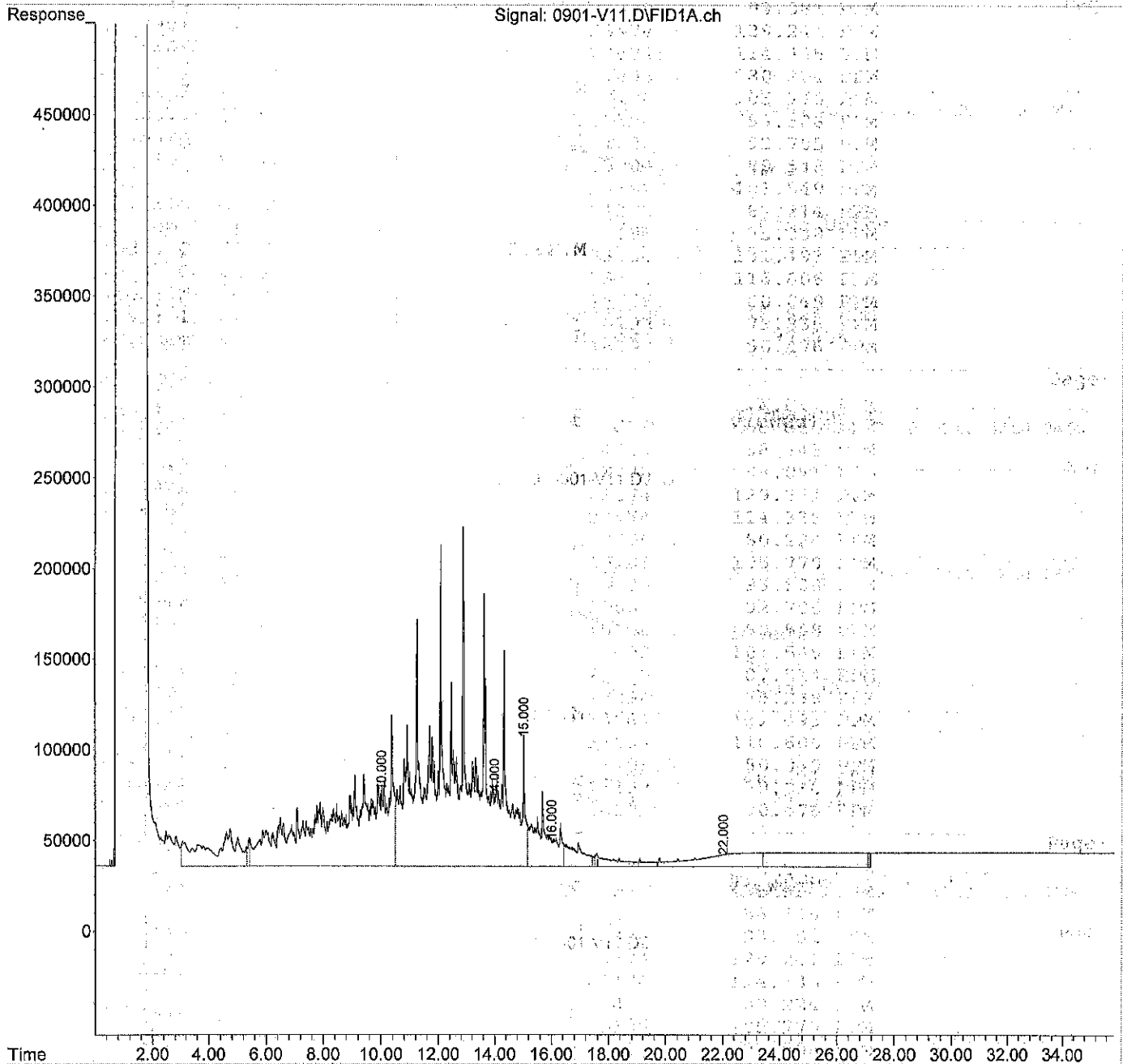
(m) = manual int.

21419914	NoCal	PPM
220771090	91.776	PPM
225690811	98.163	PPM
52022119	23.257	PPM
52022119	19.823	PPM
219983857	98.231	PPM
38395262	15.407	PPM
38395262	12.945	PPM
224583076	98.637	PPM
32597042	12.377	PPM
153792721	64.023	PPM
225690811	92.038	PPM
219983857	92.337	PPM
240299447	82.946	PPM
240299447	82.946	PPM
149401707	64.300	PPM
33293104	12.608	PPM
33293104	12.608	PPM

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V11.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 16:50
Operator : LIMS import
Sample : CCV0901F-V2
Misc : Sample
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 17:27:10 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : X:\DIESELS\Vigo\Data\V220901\
 Data File : 0901-V20.D
 Signal(s) : FID1A.ch
 Acq On : 1 Sep 2022 22:59
 Operator : LIMS import
 Sample : CCV0901F-V3
 Misc : Sample
 ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Sep 01 23:35:21 2022
 Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
 Quant Title : GCTPH
 QLast Update : Wed Aug 10 08:17:05 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-Terphenyl (05-21-21)	0.000	0	N.D. PPM
Spiked Amount	50.000	Recovery	= 0.00%
Target Compounds			
2) 1-Chlorooctadecane	0.000	0	N.D. PPM
3) H Gasoline	3.500	20966165	NoCal PPM
4) H Diesel Fuel #1 (02-18...	10.000	215387544	89.535 PPM
5) H Diesel Fuel #2 (02-0...	14.000	220011454	95.738 PPM
6) H Oil (02-09-22)	22.000	50814626	22.557 PPM
7) H Oil Acid Clean (02-2...	22.000	50814626	19.199 PPM
8) H Diesel Fuel #2 Combo ...	14.000	214506779	95.827 PPM
9) H Oil Combo (02-09-22)	22.000	37577844	14.926 PPM
10) H Oil Acid Clean Combo ...	22.000	37577844	12.516 PPM
11) H HAWAII 8015M DF2 (02...	14.000	218946342	96.206 PPM
12) H HAWAII 8015M Oil (02...	22.000	31956323	11.986 PPM
13) H Mineral Oil (02-09-22)	15.000	149655034	62.356 PPM
14) H Diesel Fuel #2 ACU (0...	14.000	220011454	89.737 PPM
15) H Diesel Fuel #2 ACU CO...	14.000	214506779	90.053 PPM
16) H Hydraulic Oil	16.000	234135212	90.210 PPM
17) H Hydraulic Oil ACU (04...	16.000	234135212	80.792 PPM
18) H Mineral Oil Combo (02...	15.000	145530712	62.682 PPM
19) H Oil Acid Clean MO Com...	22.000	32643165	10.101 PPM
20) H Oil MO Combo (02-09-22)	22.000	32643165	12.214 PPM

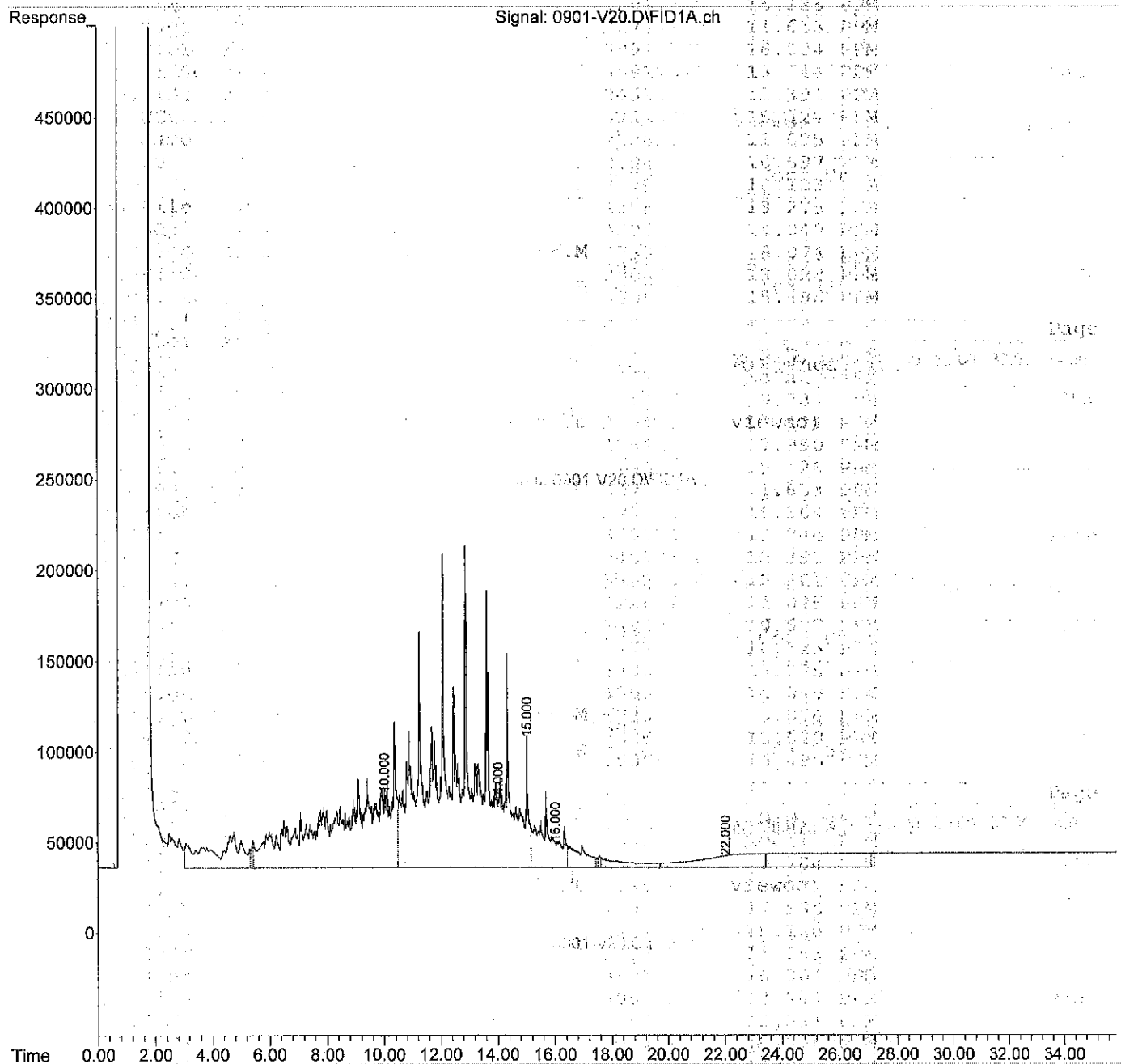
(f) = RT Delta > 1/2 Window

(m) = manual int.

Data Path : X:\DIESELS\Vigo\Data\V220901\
Data File : 0901-V20.D
Signal(s) : FID1A.ch
Acq On : 1 Sep 2022 22:59
Operator : LIMS import
Sample : CCV0901F-V3
Misc : Sample
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Sep 01 23:35:21 2022
Quant Method : C:\MSDCHEM\2\METHODS\V220209F.M
Quant Title : GCTPH
QLast Update : Wed Aug 10 08:17:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Volatiles Organics
EPA 8260D Data

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826007.D
 Acq On : 26 Aug 2022 01:39 pm
 Operator :
 Sample : 08-268-01g
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 26 17:30:11 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

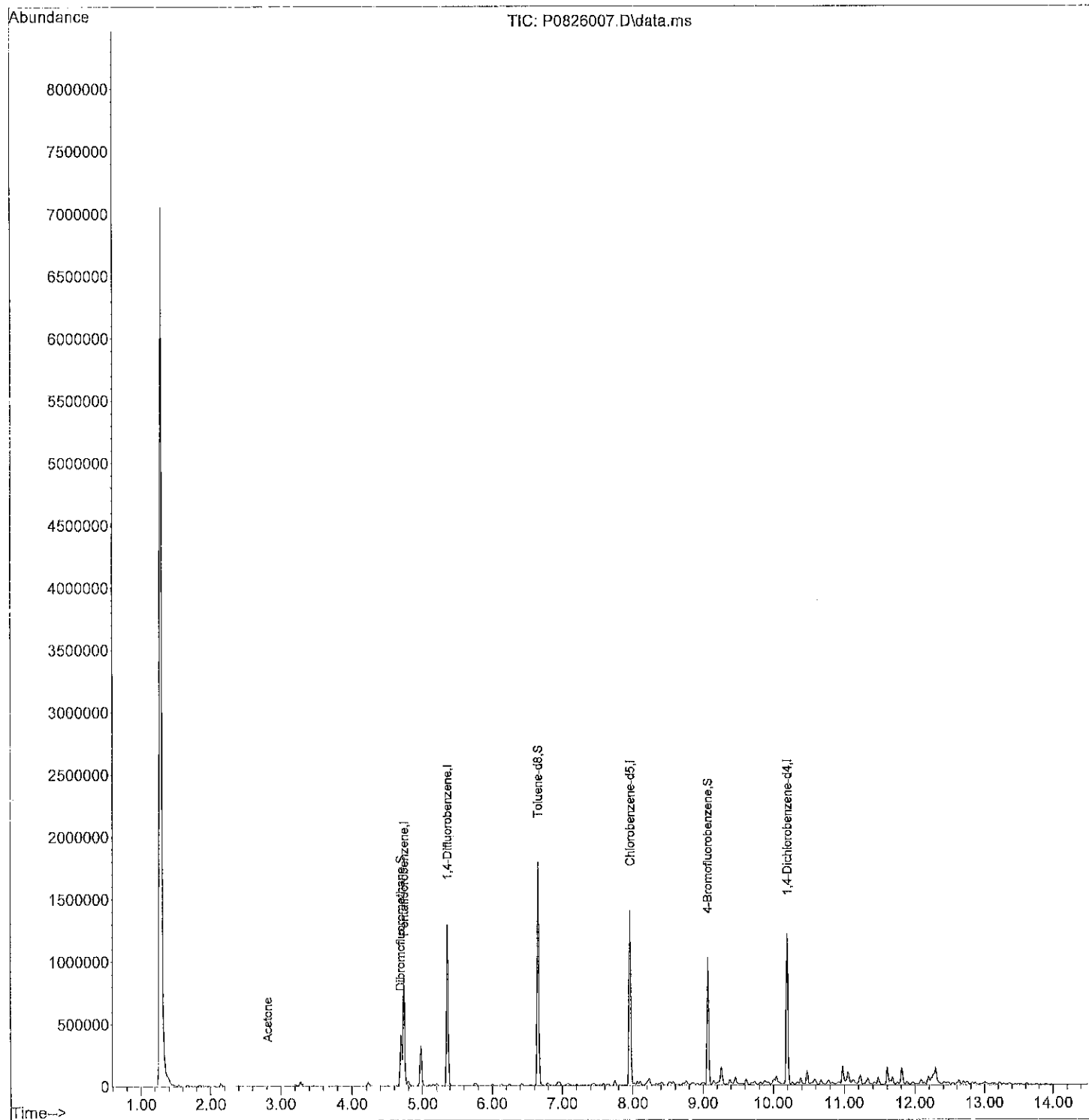
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

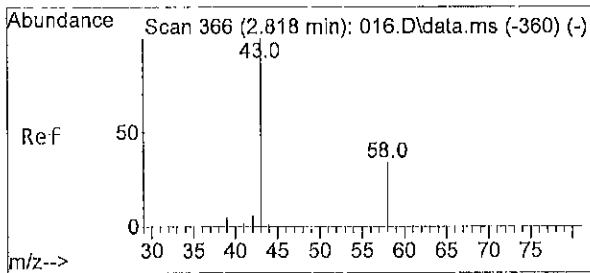
Internal Standards						
1) Pentafluorobenzene	4.738	168	525470	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	890466	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	746659	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	322046	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	233273	10.02	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	100.20%		
37) Toluene-d8	6.653	98	1053710	9.73	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	97.30%		
55) 4-Bromofluorobenzene	9.067	95	344104	10.24	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	102.40%		
Target Compounds						
9) Acetone	2.818	43	4450	1.95	ppb	Qvalue # 82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826007.D
Acq On : 26 Aug 2022 01:39 pm
Operator :
Sample : 08-268-01g
Misc :
ALS Vial : 7 Sample Multiplier: 1

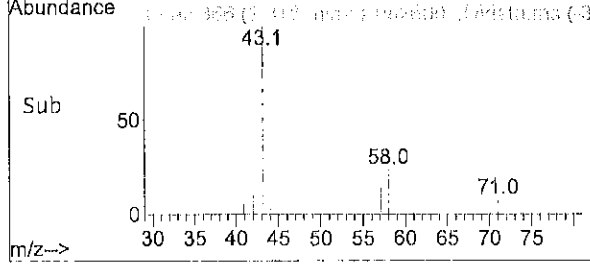
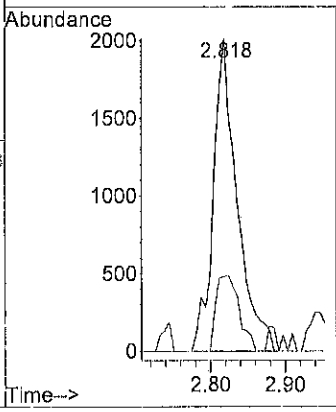
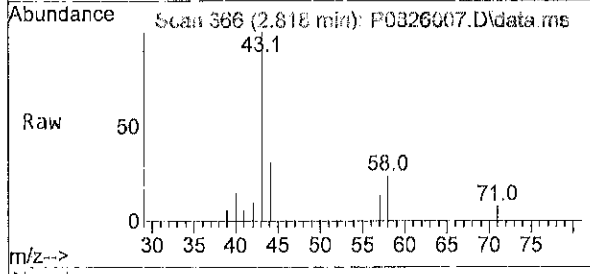
Quant Time: Aug 26 17:30:11 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





#9
 Acetone
 Concen: 1.95 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.006 min
 Lab File: P0826007.D
 Acq: 26 Aug 2022 01:39 pm

Tgt Ion: 43 Resp: 4450
 Ion Ratio Lower Upper
 43 100
 58 23.5 27.1 40.7#



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826008.D
 Acq On : 26 Aug 2022 02:06 pm
 Operator :
 Sample : 08-268-02g
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 17:30:19 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

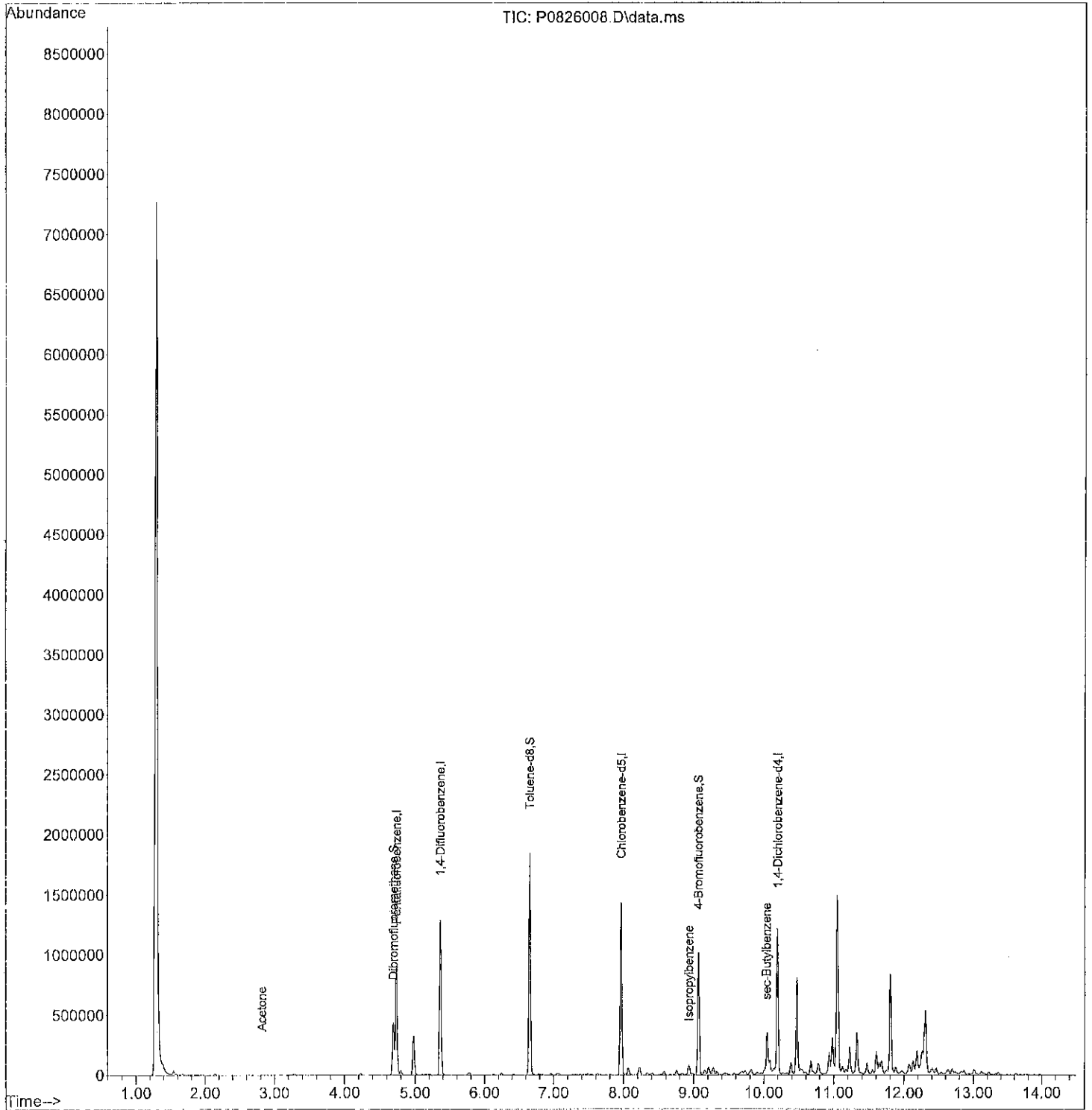
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

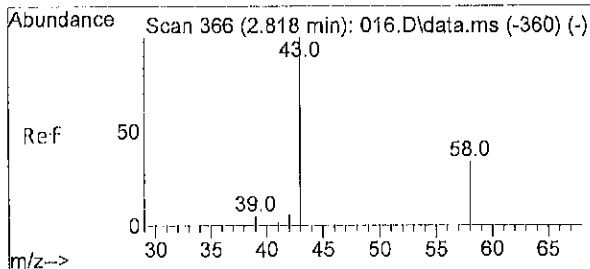
Internal Standards							
1) Pentafluorobenzene	4.738	168	528146	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	883775	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	747470	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.201	152	330512	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.696	111	232622	9.94	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery =	99.40%			
37) Toluene-d8	6.653	98	1078684	10.04	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery =	100.40%			
55) 4-Bromofluorobenzene	9.067	95	351060	10.44	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery =	104.40%			
Target Compounds							
							Qvalue
9) Acetone	2.824	43	3636	1.58	ppb		99
54) Isopropylbenzene	8.933	105	51771	0.45	ppb		98
66) sec-Butylbenzene	10.036	105	33586	0.29	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826008.D
Acq On : 26 Aug 2022 02:06 pm
Operator :
Sample : 08-268-02g
Misc :
ALS Vial : 8 Sample Multiplier: 1

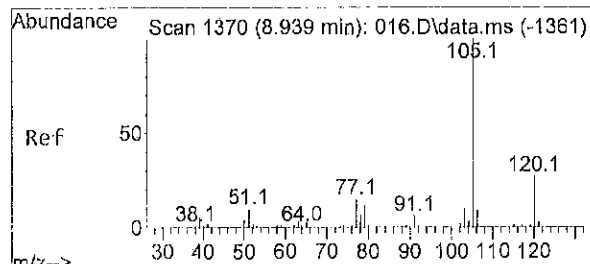
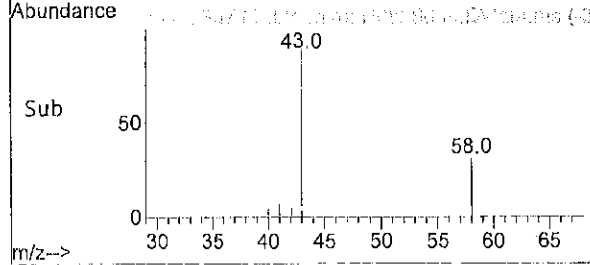
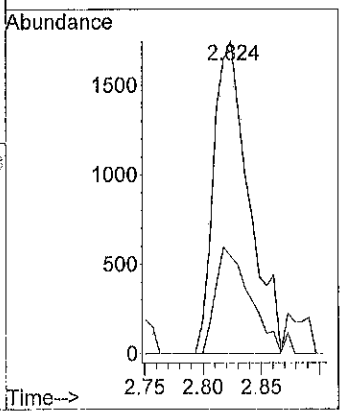
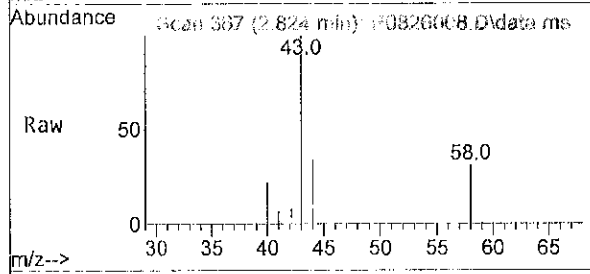
Quant Time: Aug 26 17:30:19 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





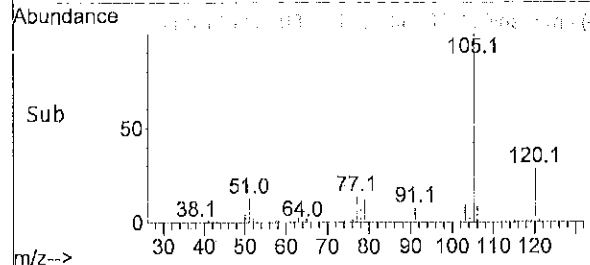
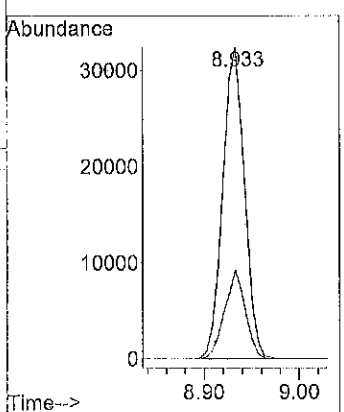
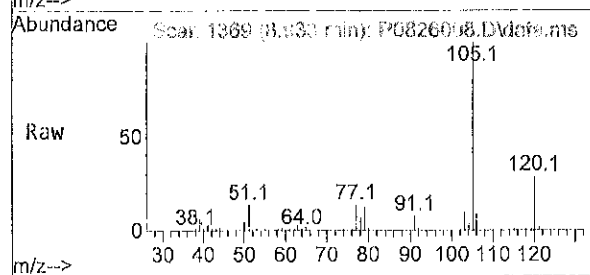
#9
 Acetone
 Concen: 1.58 ppb
 RT: 2.824 min Scan# 367
 Delta R.T. 0.012 min
 Lab File: P0826008.D
 Acq: 26 Aug 2022 02:06 pm

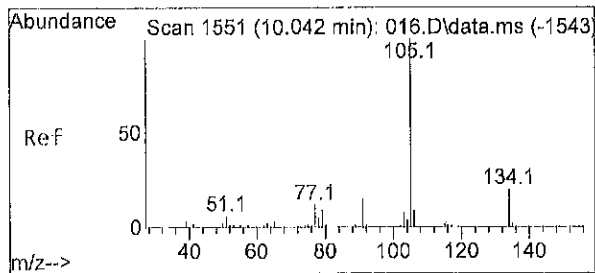
Tgt Ion	Resp	Lower	Upper
43	100		
58	34.5	27.1	40.7



#54
 Isopropylbenzene
 Concen: 0.45 ppb
 RT: 8.933 min Scan# 1369
 Delta R.T. -0.000 min
 Lab File: P0826008.D
 Acq: 26 Aug 2022 02:06 pm

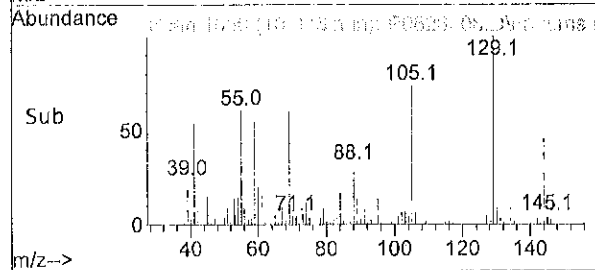
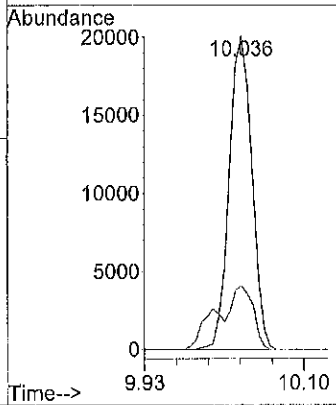
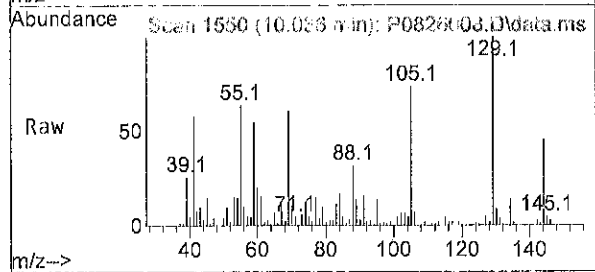
Tgt Ion	Resp	Lower	Upper
105	100		
120	27.1	21.0	31.6





#66
 sec-Butylbenzene
 Concen: 0.29 ppb
 RT: 10.036 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: P0826008.D
 Acq: 26 Aug 2022 02:06 pm

Tgt Ion: 105 Resp: 33586
 Ion Ratio Lower Upper
 105 100
 134 19.4 16.2 24.4



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826009.D
 Acq On : 26 Aug 2022 02:32 pm
 Operator :
 Sample : 08-268-03g
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 17:30:27 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

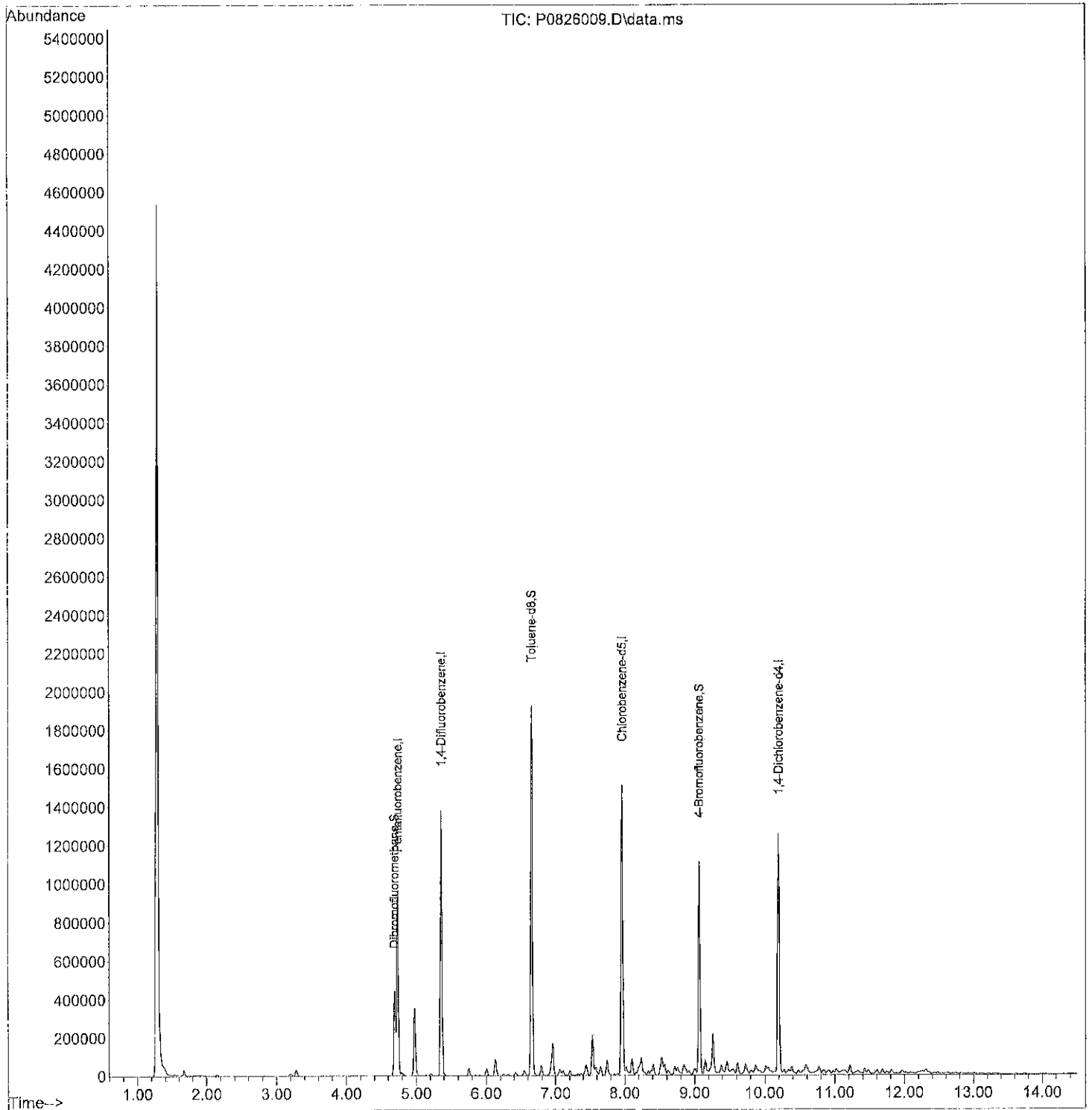
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	552126	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	928437	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	795798	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	338941	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	250263	10.23	ppb	0.00
Spiked Amount	10.000	Range	75 - 127	Recovery	=	102.30%
37) Toluene-d8	6.653	98	1125991	9.97	ppb	0.00
Spiked Amount	10.000	Range	80 - 127	Recovery	=	99.70%
55) 4-Bromofluorobenzene	9.067	95	370869	10.36	ppb	0.00
Spiked Amount	10.000	Range	78 - 125	Recovery	=	103.60%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826009.D
Acq On : 26 Aug 2022 02:32 pm
Operator :
Sample : 08-268-03g
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 17:30:27 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826010.D
 Acq On : 26 Aug 2022 02:59 pm
 Operator :
 Sample : 08-268-04g
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 17:30:34 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

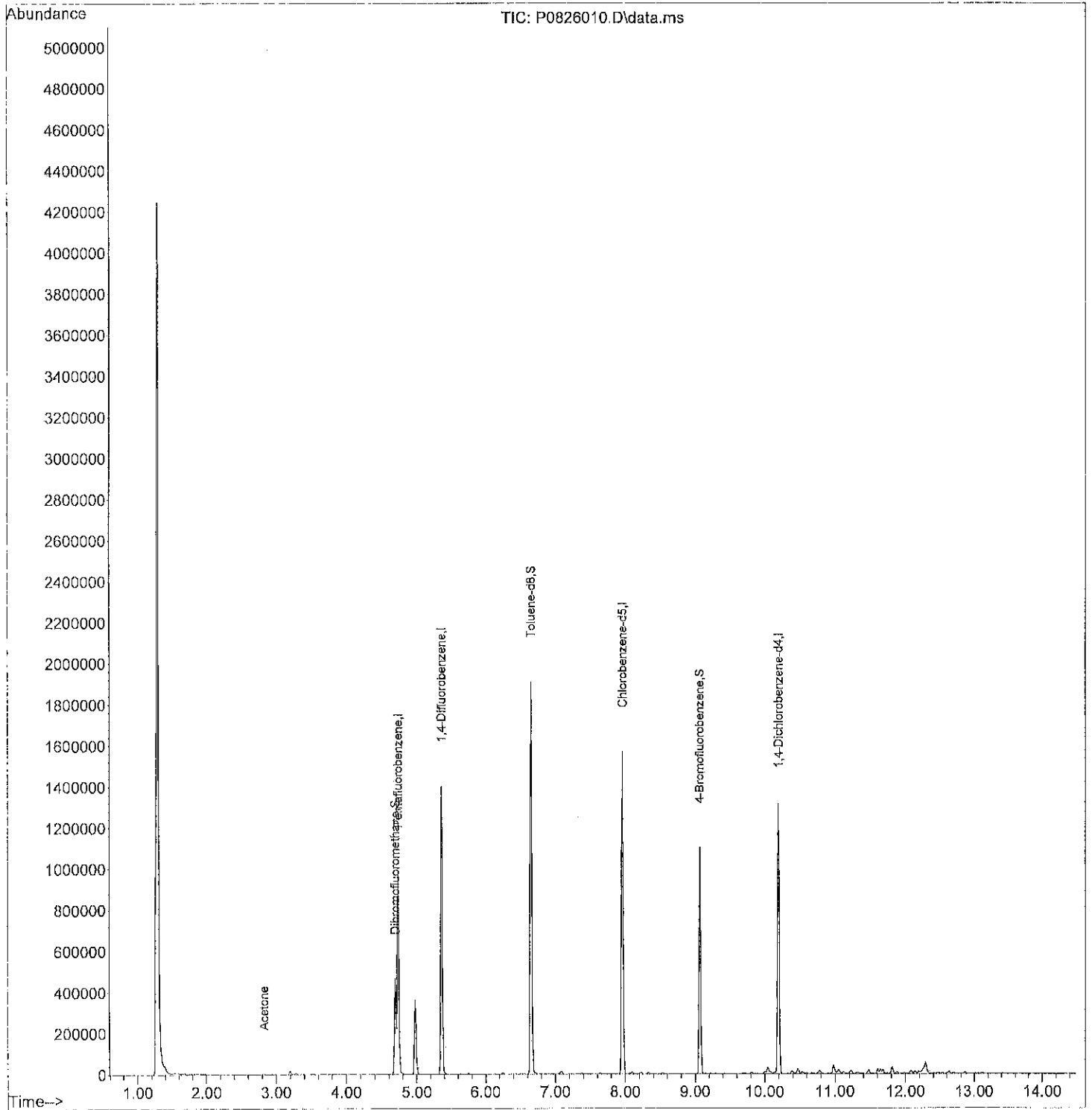
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

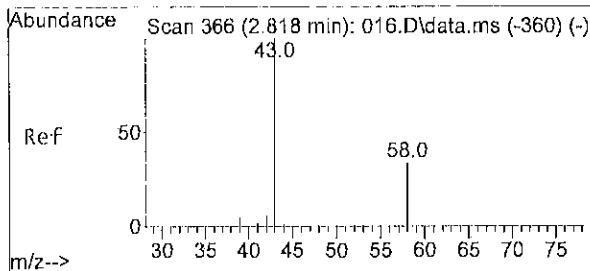
Internal Standards						
1) Pentafluorobenzene	4.738	168	569152	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	967937	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	821130	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	352085	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	258101	10.23	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	102.30%		
37) Toluene-d8	6.653	98	1156614	9.83	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	98.30%		
55) 4-Bromofluorobenzene	9.067	95	379460	10.27	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	102.70%		
Target Compounds						
9) Acetone	2.830	43	3488	1.41	ppb	Qvalue 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

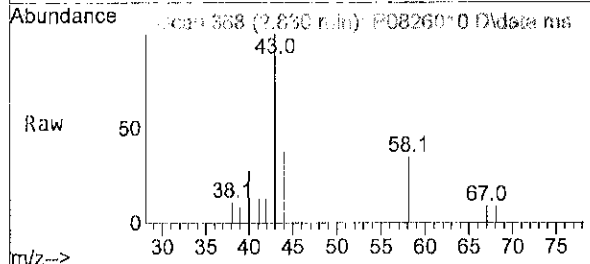
Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826010.D
Acq On : 26 Aug 2022 02:59 pm
Operator :
Sample : 08-268-04g
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 17:30:34 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration

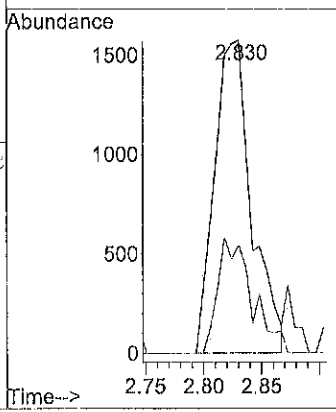
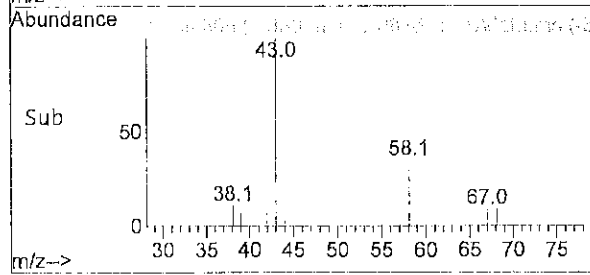




#9
 Acetone
 Concen: 1.41 ppb
 RT: 2.830 min Scan# 368
 Delta R.T. 0.018 min
 Lab File: P0826010.D
 Acq: 26 Aug 2022 02:59 pm



Tgt Ion: 43 Resp: 3488
 Ion Ratio Lower Upper
 43 100
 58 34.0 27.1 40.7



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826011.D
 Acq On : 26 Aug 2022 03:25 pm
 Operator :
 Sample : 08-268-05g
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 17:30:43 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

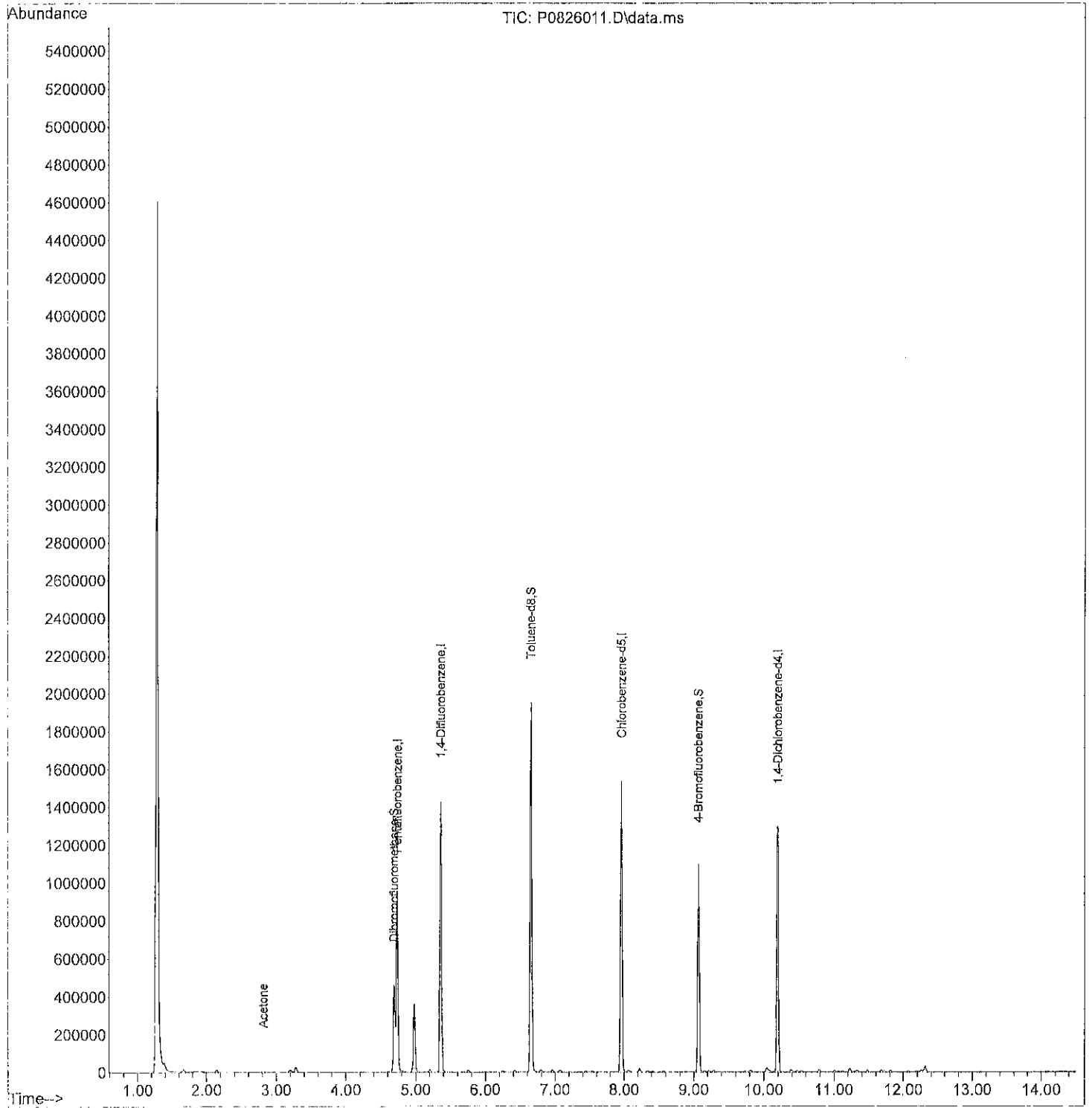
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

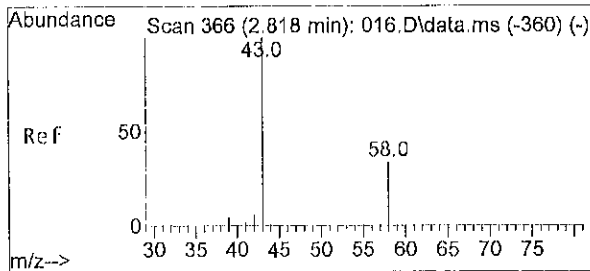
Internal Standards						
1) Pentafluorobenzene	4.738	168	564697	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	963711	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	814516	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	352071	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	257140	10.27	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	102.70%		
37) Toluene-d8	6.653	98	1160934	9.91	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.10%		
55) 4-Bromofluorobenzene	9.067	95	381200	10.40	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	104.00%		
Target Compounds						
9) Acetone	2.818	43	6968	2.84	ppb #	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826011.D
Acq On : 26 Aug 2022 03:25 pm
Operator :
Sample : 08-268-05g
Misc :
ALS Vial : 11 Sample Multiplier: 1

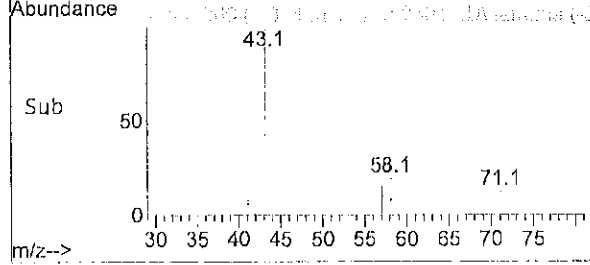
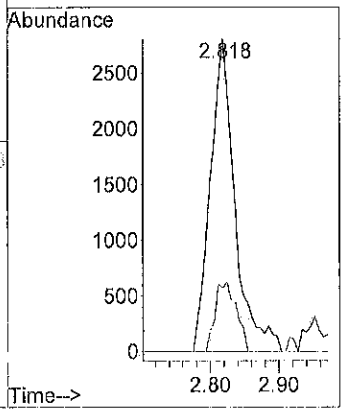
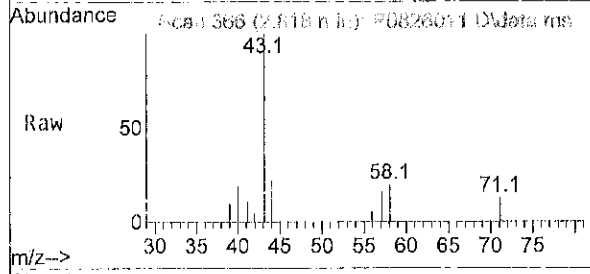
Quant Time: Aug 26 17:30:43 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





#9
 Acetone
 Concen: 2.84 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.006 min
 Lab File: P0826011.D
 Acq: 26 Aug 2022 03:25 pm

Tgt Ion: 43 Resp: 6968
 Ion Ratio Lower Upper
 43 100
 58 19.2 27.1 40.7#



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826012.D
 Acq On : 26 Aug 2022 03:52 pm
 Operator :
 Sample : 08-268-06g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

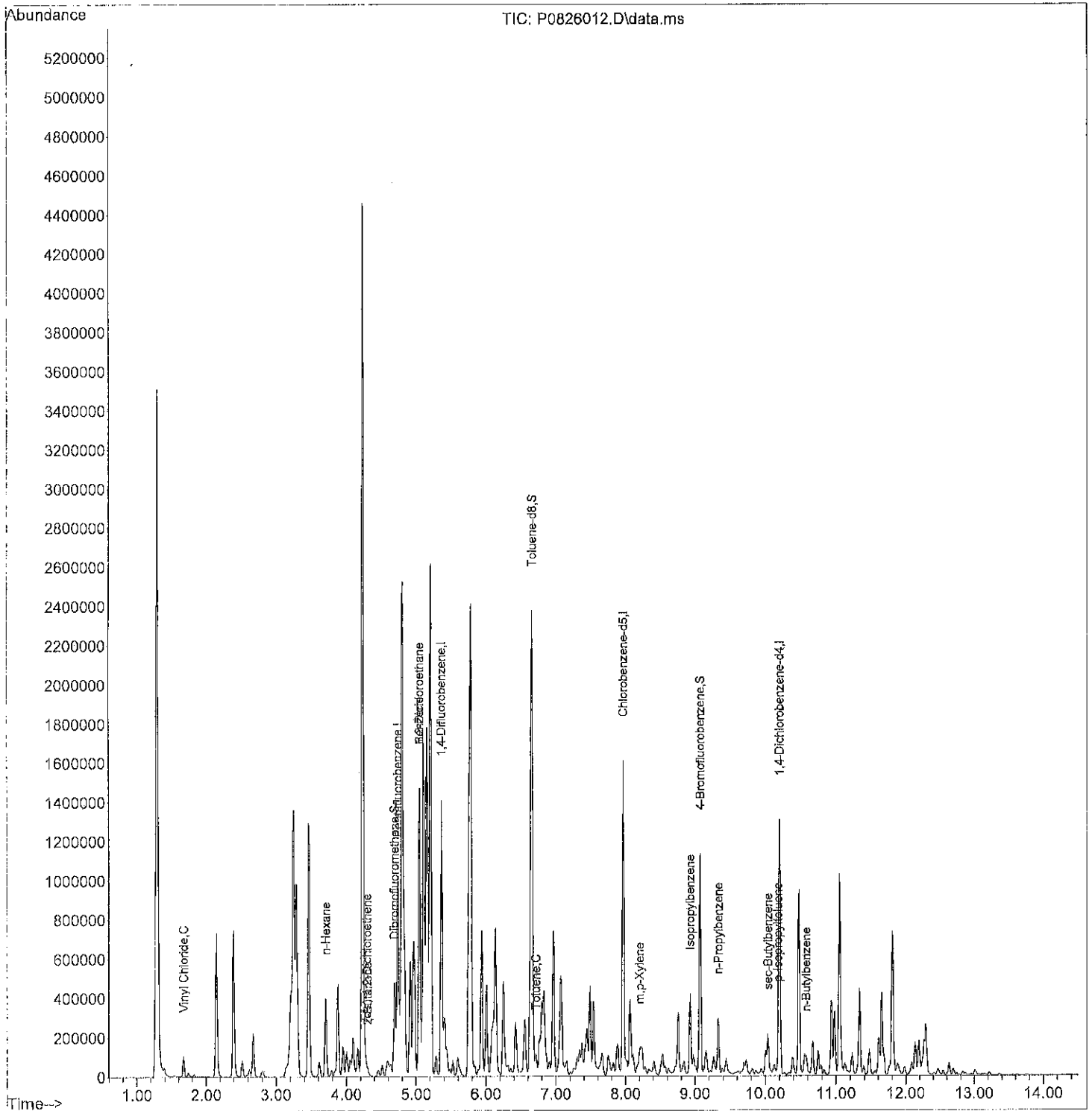
Quant Time: Aug 26 17:30:54 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

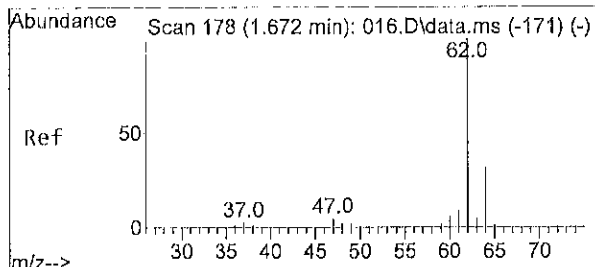
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.738	168	568681	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	962755	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	817016	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	350534	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	259221	10.28	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	102.80%		
37) Toluene-d8	6.653	98	1198978	10.24	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	102.40%		
55) 4-Bromofluorobenzene	9.073	95	388966	10.58	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	105.80%		
Target Compounds						
4) Vinyl Chloride	1.672	62	8943	0.25	ppb #	82
15) n-Hexane	3.702	57	177470	4.29	ppb	99
19) (cis) 1,2-Dichloroethene	4.293	61	10192	0.22	ppb	97
20) 2-Butanone	4.306	43	11995	2.60	ppb #	65
27) Benzene	5.049	78	1053485	9.97	ppb	100
28) 1,2-Dichloroethane	5.049	62	13294	0.59	ppb	92
38) Toluene	6.714	91	45799	0.40	ppb	99
50) m,p-Xylene	8.201	91	45476	0.45	ppb	98
54) Isopropylbenzene	8.933	105	254991	2.05	ppb	99
60) n-Propylbenzene	9.329	91	212398	1.39	ppb	98
66) sec-Butylbenzene	10.036	105	115443	0.94	ppb	98
68) p-Isopropyltoluene	10.176	119	25133	0.24	ppb	94
71) n-Butylbenzene	10.579	91	45199	0.50	ppb #	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826012.D
 Acq On : 26 Aug 2022 03:52 pm
 Operator :
 Sample : 08-268-06g
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

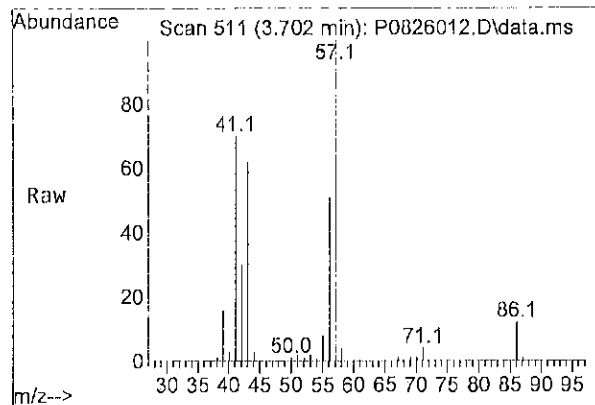
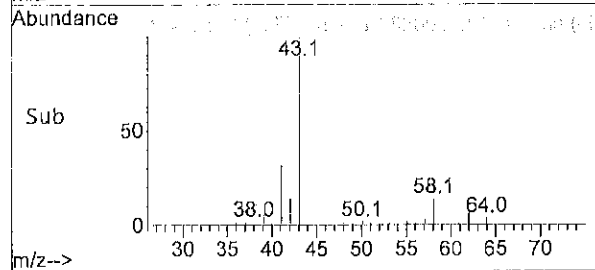
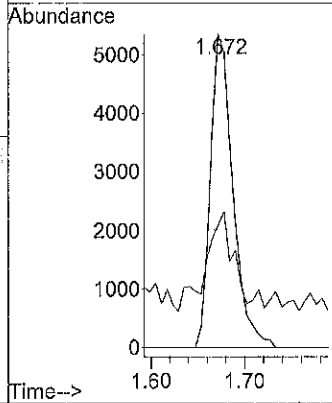
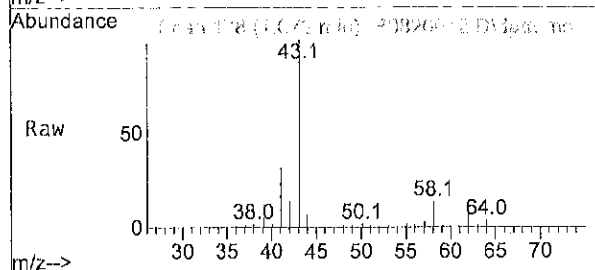
Quant Time: Aug 26 17:30:54 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration





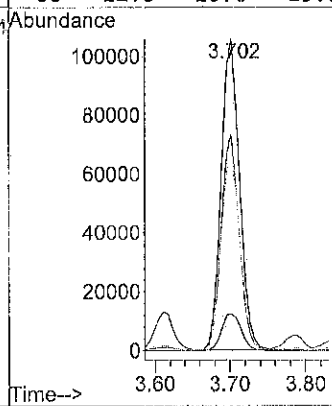
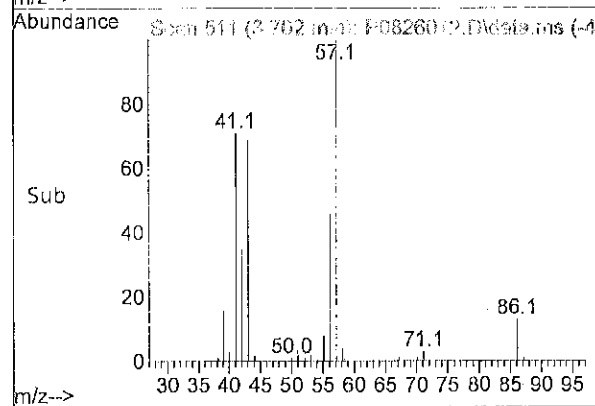
#4
 Vinyl Chloride
 Concen: 0.25 ppb
 RT: 1.672 min Scan# 178
 Delta R.T. 0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

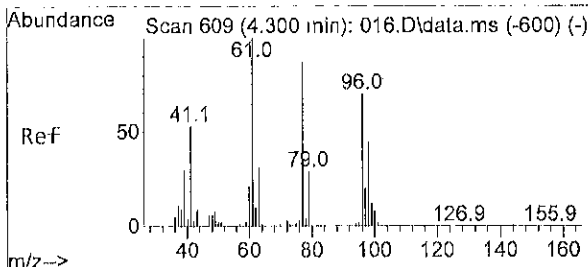
Tgt Ion: 62 Resp: 8943
 Ion Ratio Lower Upper
 62 100
 64 38.9 23.5 35.3#



#15
 n-Hexane
 Concen: 4.29 ppb
 RT: 3.702 min Scan# 511
 Delta R.T. 0.006 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

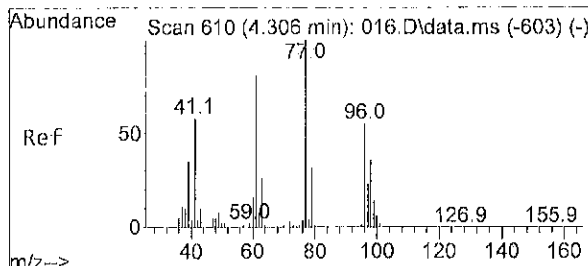
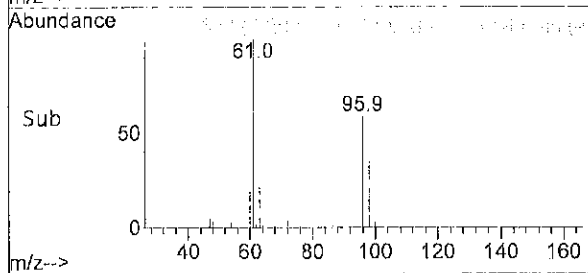
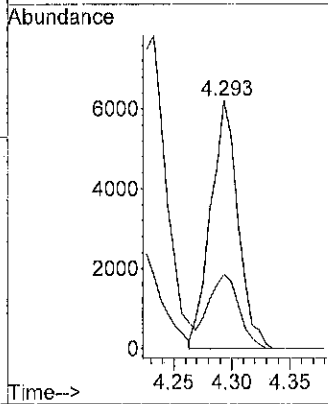
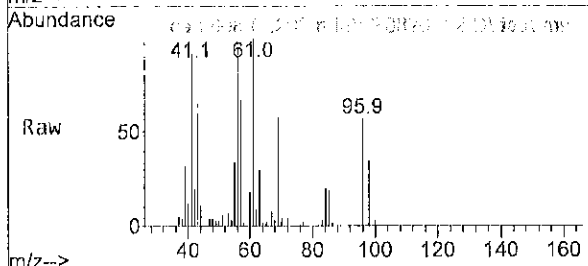
Tgt Ion: 57 Resp: 177470
 Ion Ratio Lower Upper
 57 100
 41 67.8 54.4 81.6
 43 64.2 50.2 75.2
 86 12.8 10.6 15.8





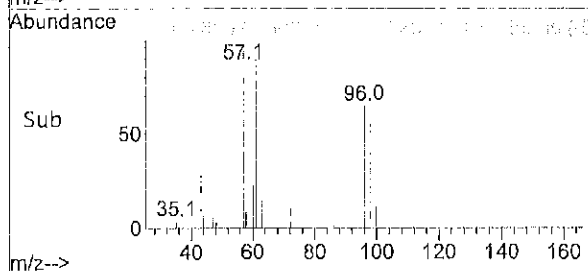
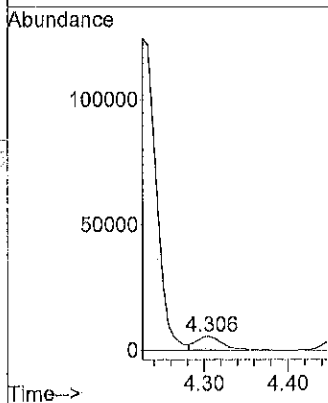
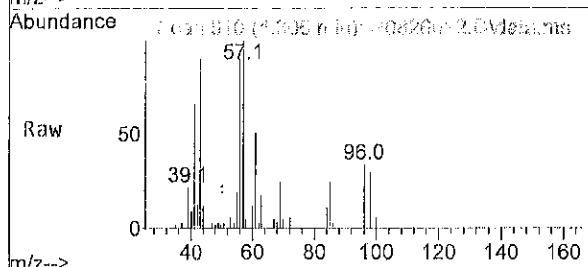
#19
 (cis) 1,2-Dichloroethene
 Concen: 0.22 ppb
 RT: 4.293 min Scan# 608
 Delta R.T. -0.001 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

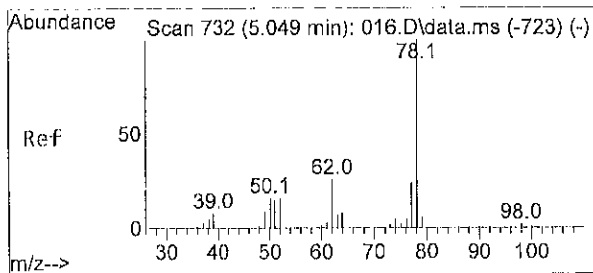
Tgt Ion: 61 Resp: 10192
 Ion Ratio Lower Upper
 61 100
 63 32.7 24.6 37.0



#20
 2-Butanone
 Concen: 2.60 ppb
 RT: 4.306 min Scan# 610
 Delta R.T. 0.006 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

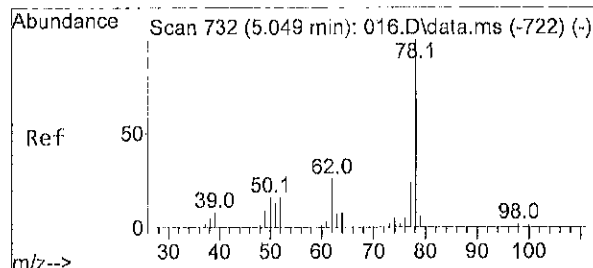
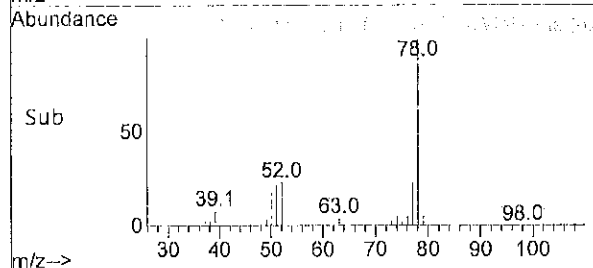
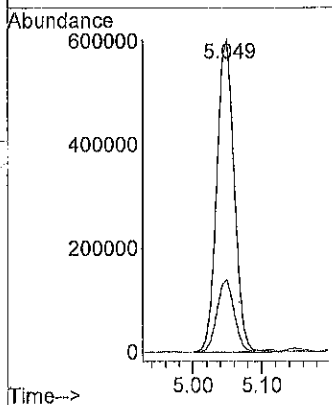
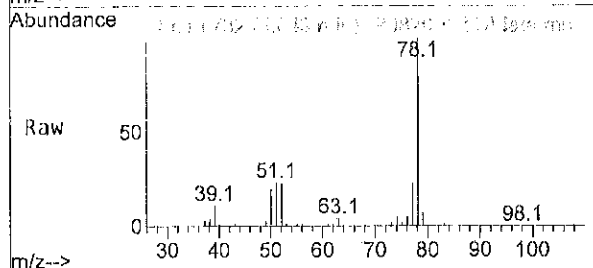
Tgt Ion: 43 Resp: 11995
 Ion Ratio Lower Upper
 43 100
 72 5.5 17.8 26.6#





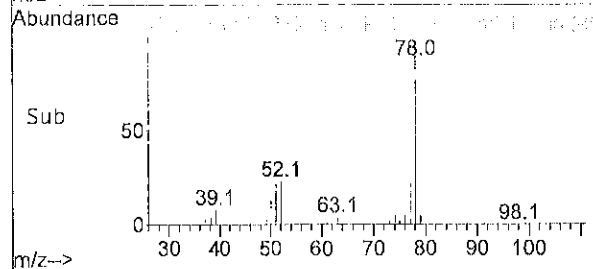
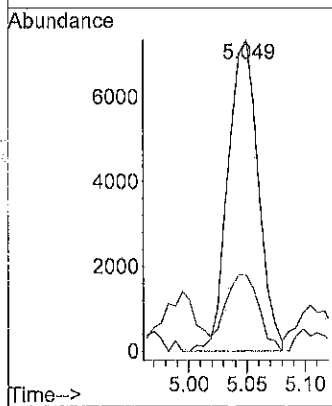
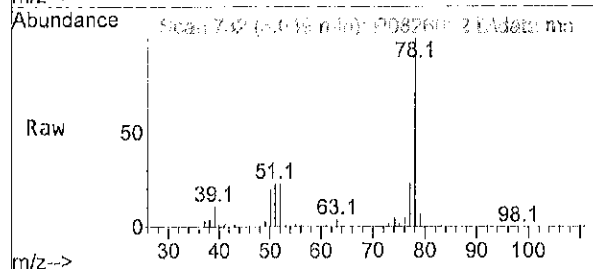
#27
Benzene
Concen: 9.97 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.000 min
Lab File: P0826012.D
Acq: 26 Aug 2022 03:52 pm

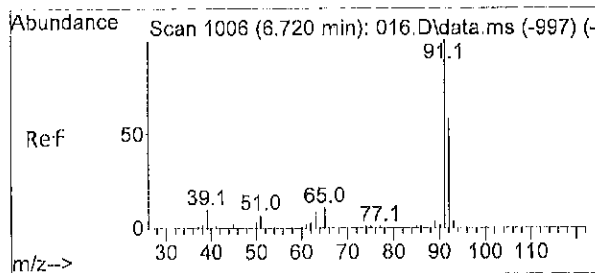
Tgt Ion: 78 Resp: 1053485
Ion Ratio Lower Upper
78 100
77 22.9 18.5 27.7



#28
1,2-Dichloroethane
Concen: 0.59 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.006 min
Lab File: P0826012.D
Acq: 26 Aug 2022 03:52 pm

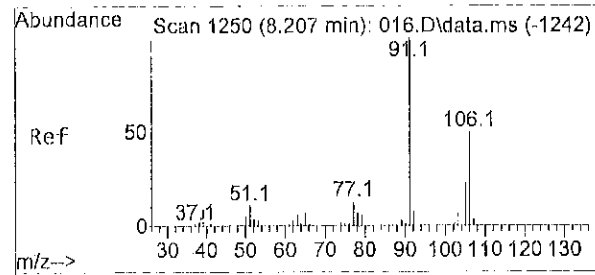
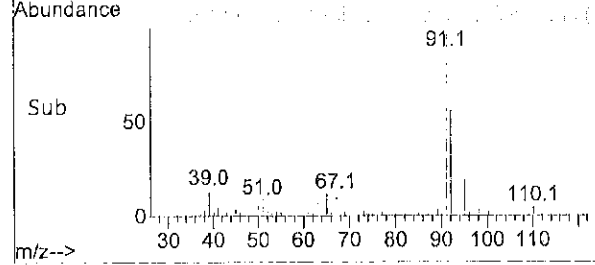
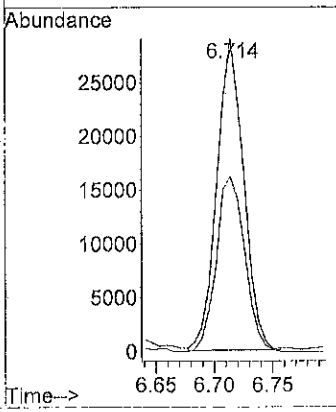
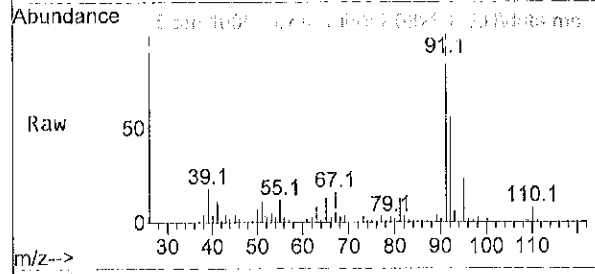
Tgt Ion: 62 Resp: 13294
Ion Ratio Lower Upper
62 100
64 26.7 24.7 37.1





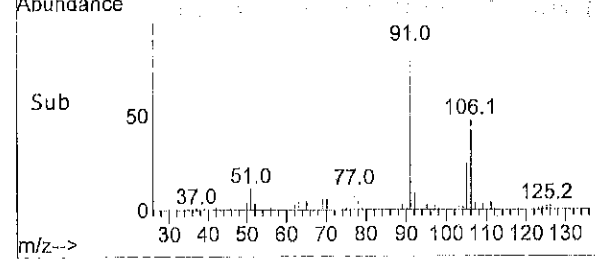
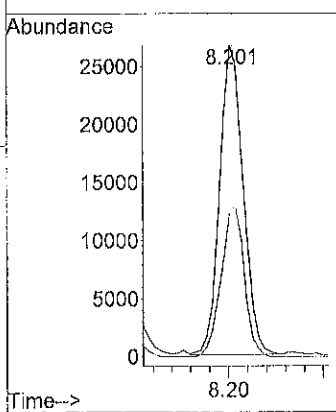
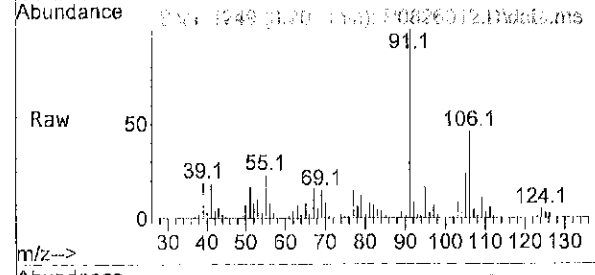
#38
 Toluene
 Concen: 0.40 ppb
 RT: 6.714 min Scan# 1005
 Delta R.T. -0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

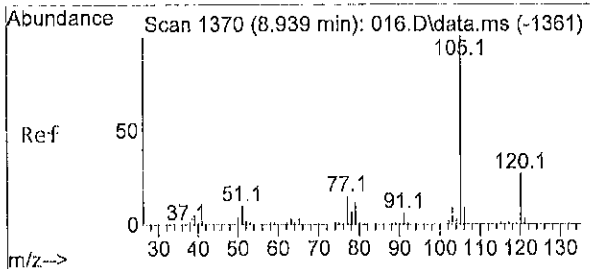
Tgt Ion	Resp	Lower	Upper
91	100		
92	60.0	47.4	71.2



#50
 m,p-Xylene
 Concen: 0.45 ppb
 RT: 8.201 min Scan# 1249
 Delta R.T. 0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

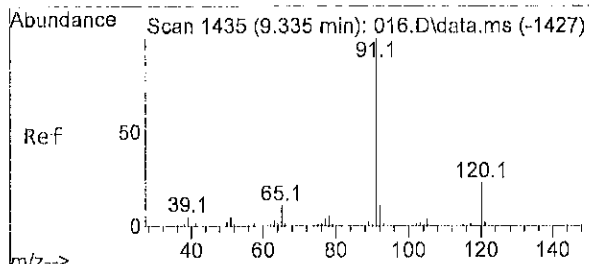
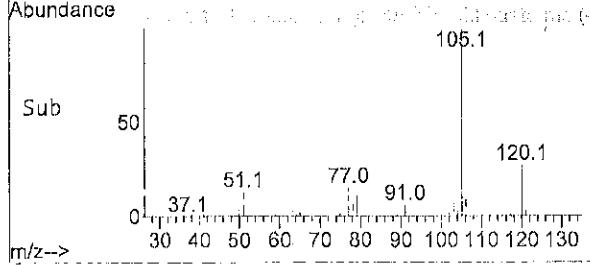
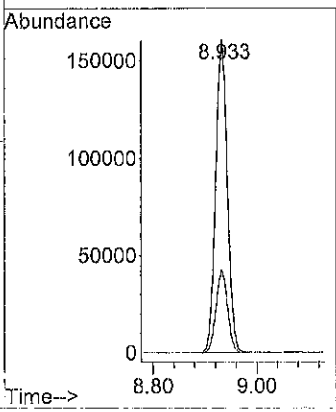
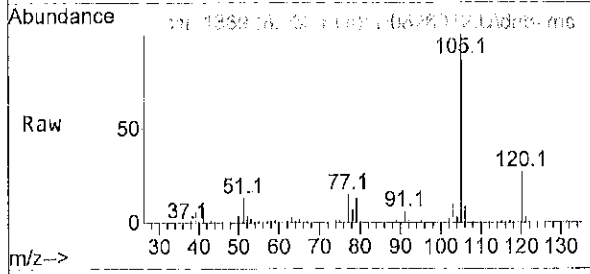
Tgt Ion	Resp	Lower	Upper
91	100		
106	47.7	39.3	58.9





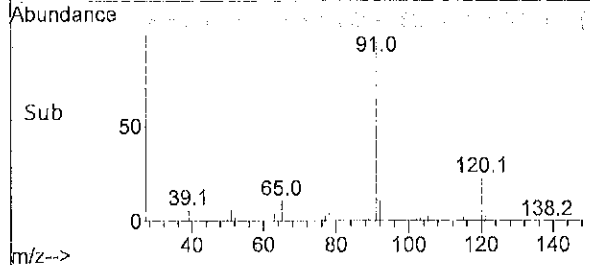
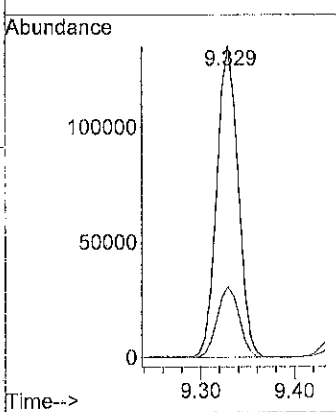
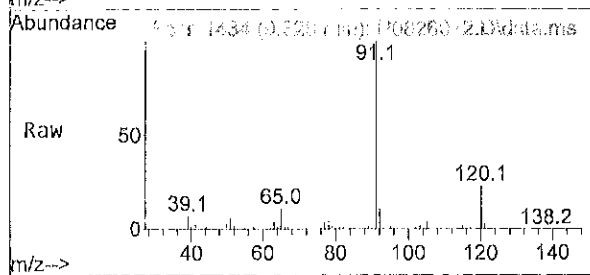
#54
 Isopropylbenzene
 Concen: 2.05 ppb
 RT: 8.933 min Scan# 1369
 Delta R.T. -0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

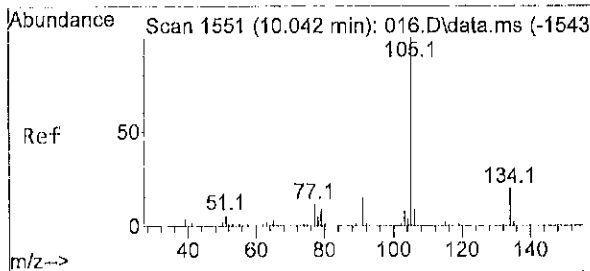
Tgt Ion: 105 Resp: 254991
 Ion Ratio Lower Upper
 105 100
 120 26.0 21.0 31.6



#60
 n-Propylbenzene
 Concen: 1.39 ppb
 RT: 9.329 min Scan# 1434
 Delta R.T. 0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

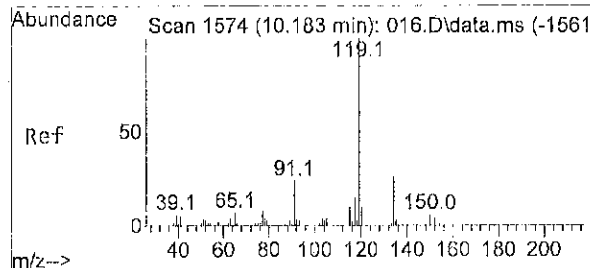
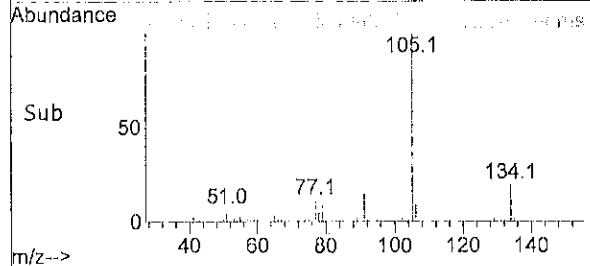
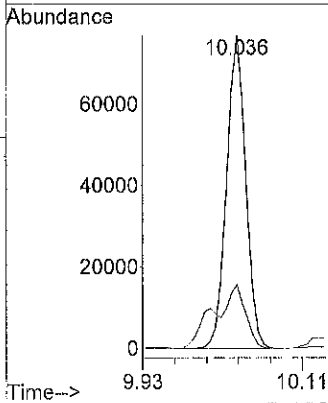
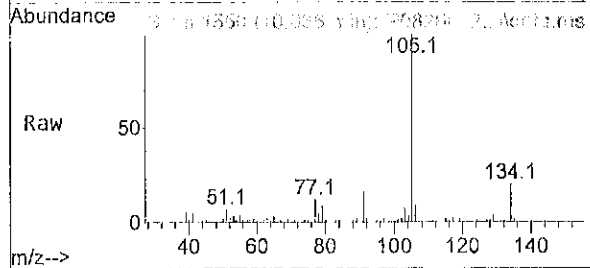
Tgt Ion: 91 Resp: 212398
 Ion Ratio Lower Upper
 91 100
 120 23.4 18.1 27.1





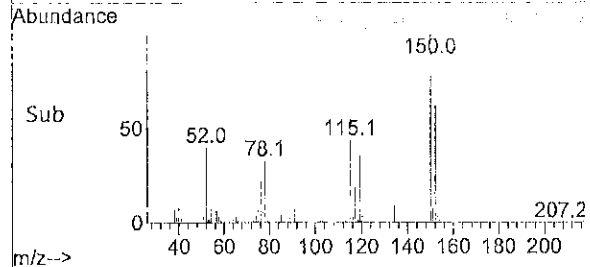
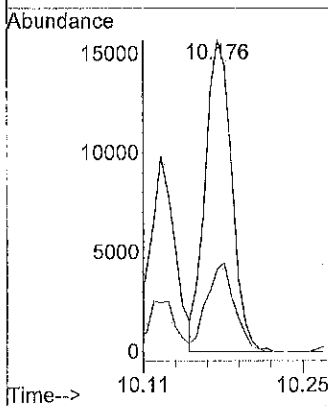
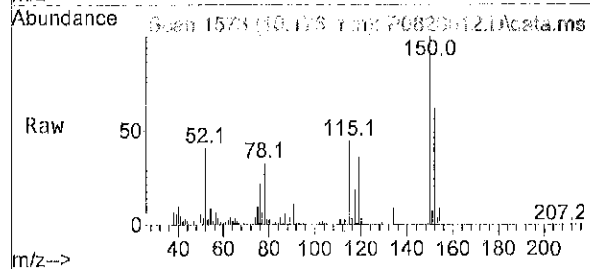
#66
 sec-Butylbenzene
 Concen: 0.94 ppb
 RT: 10.036 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

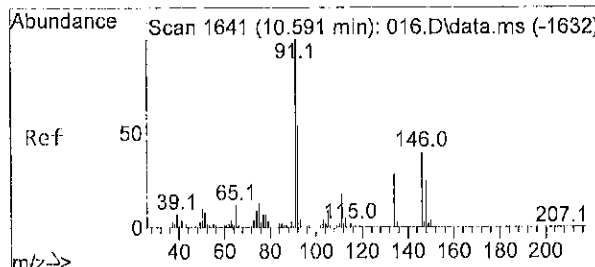
Tgt Ion: 105 Resp: 115443
 Ion Ratio Lower Upper
 105 100
 134 19.5 16.2 24.4



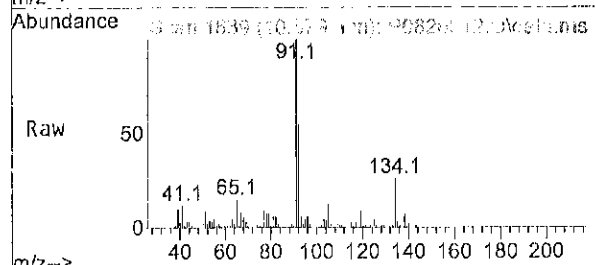
#68
 p-Isopropyltoluene
 Concen: 0.24 ppb
 RT: 10.176 min Scan# 1573
 Delta R.T. -0.001 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm

Tgt Ion: 119 Resp: 25133
 Ion Ratio Lower Upper
 119 100
 134 29.7 21.1 31.7

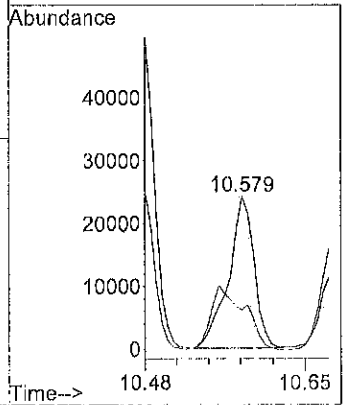
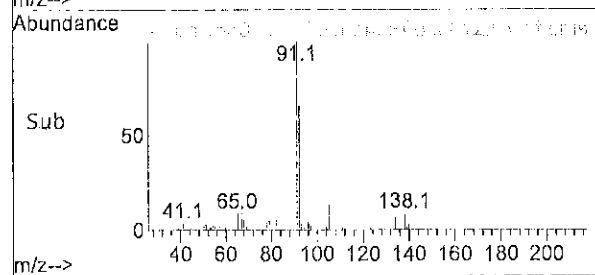




#71
 n-Butylbenzene
 Concen: 0.50 ppb
 RT: 10.579 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: P0826012.D
 Acq: 26 Aug 2022 03:52 pm



Tgt Ion: 91 Resp: 45199
 Ion Ratio Lower Upper
 91 100
 134 0.0 21.5 32.3#



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826013.D
 Acq On : 26 Aug 2022 04:19 pm
 Operator :
 Sample : 08-268-07g
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 26 17:31:04 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

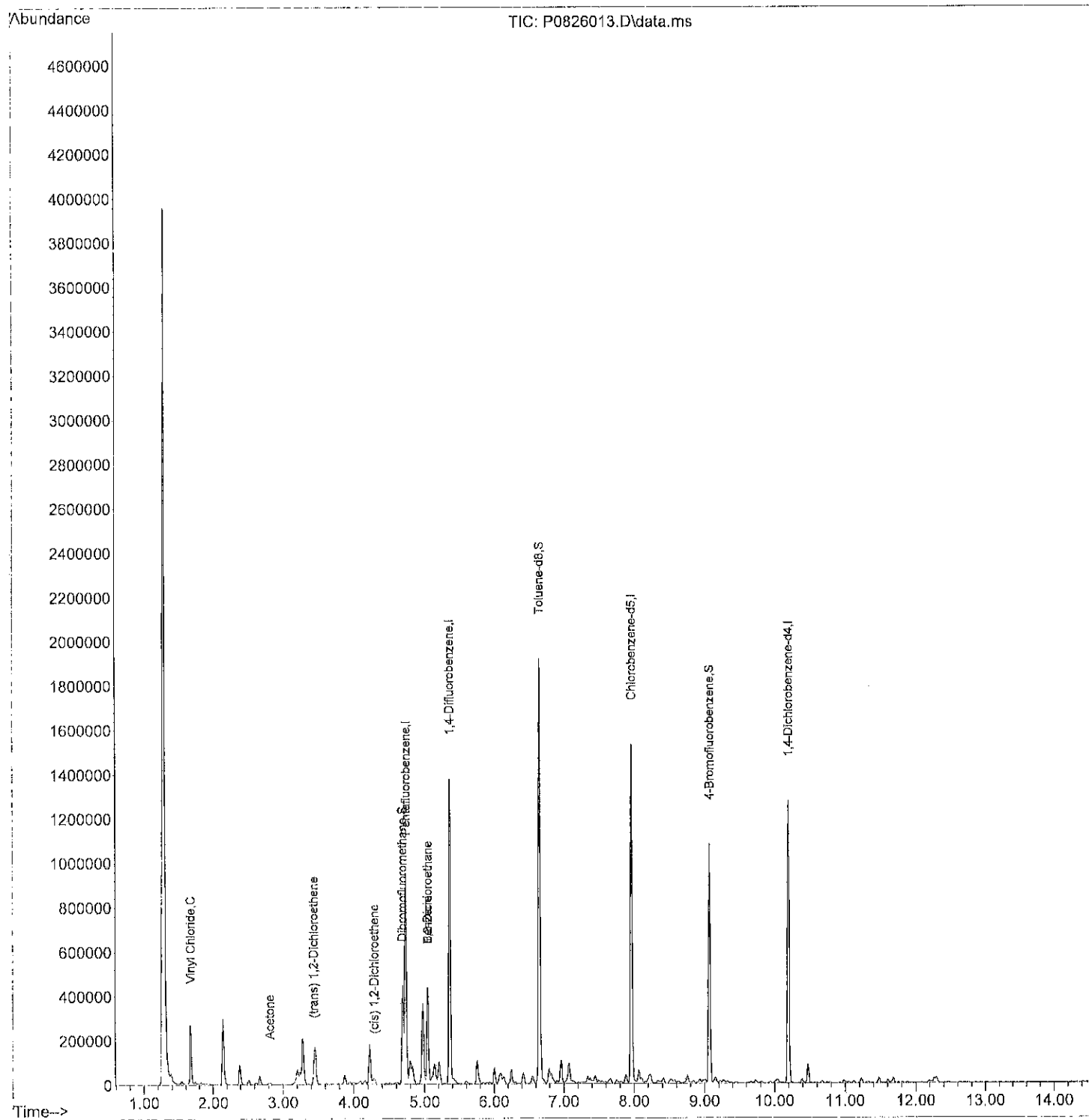
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

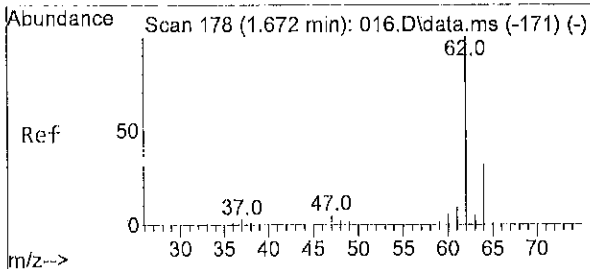
Internal Standards							
1) Pentafluorobenzene	4.738	168	556354	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	941251	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	801324	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.201	152	346004	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.690	111	250159	10.15	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery	=	101.50%		
37) Toluene-d8	6.653	98	1131159	9.88	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery	=	98.80%		
55) 4-Bromofluorobenzene	9.073	95	373325	10.36	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery	=	103.60%		
Target Compounds							
							Qvalue
4) Vinyl Chloride	1.672	62	24791	0.71	ppb		99
9) Acetone	2.818	43	7702	3.18	ppb	#	81
13) (trans) 1,2-Dichloroet...	3.440	61	38711	0.85	ppb		100
19) (cis) 1,2-Dichloroethene	4.293	61	16041	0.35	ppb		97
27) Benzene	5.049	78	312359	3.02	ppb		99
28) 1,2-Dichloroethane	5.049	62	8945	0.41	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826013.D
Acq On : 26 Aug 2022 04:19 pm
Operator :
Sample : 08-268-07g
Misc :
ALS Vial : 13 Sample Multiplier: 1

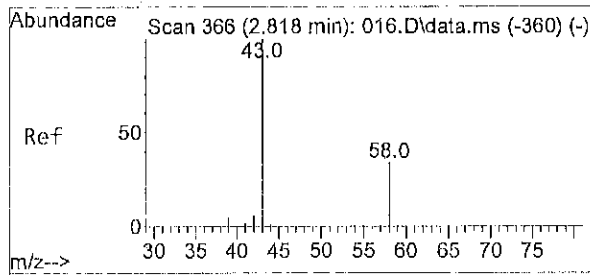
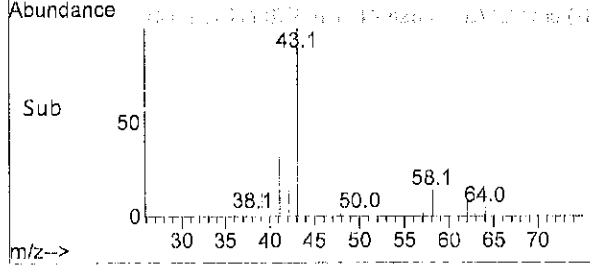
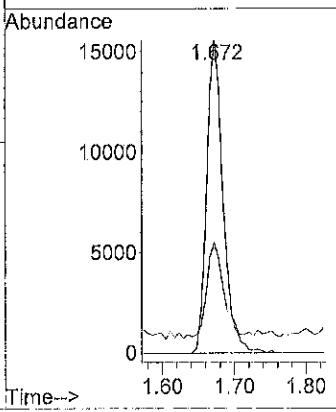
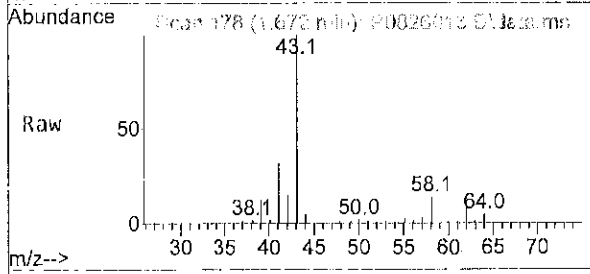
Quant Time: Aug 26 17:31:04 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
Qlast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





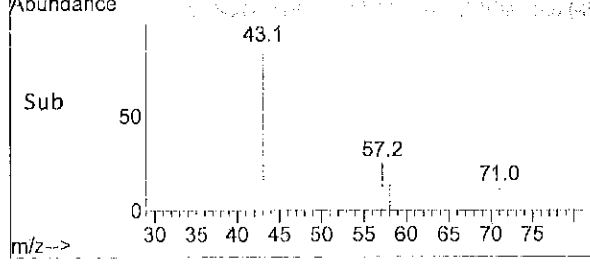
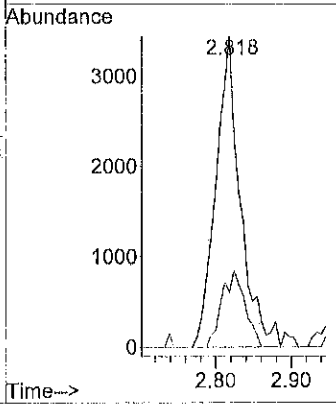
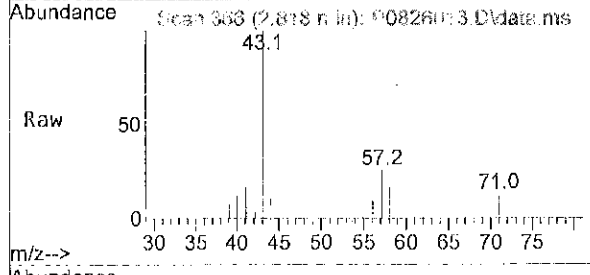
#4
 Vinyl Chloride
 Concen: 0.71 ppb
 RT: 1.672 min Scan# 178
 Delta R.T. -0.000 min
 Lab File: P0826013.D
 Acq: 26 Aug 2022 04:19 pm

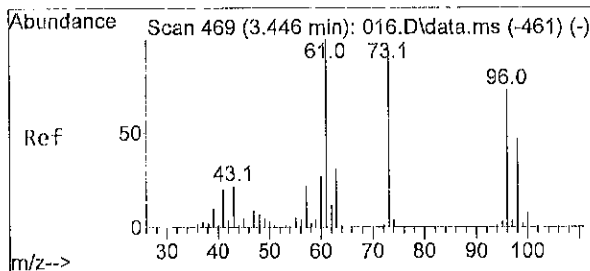
Tgt Ion	Resp	Ion Ratio	Lower	Upper
62	24791	100		
64		30.2	23.5	35.3



#9
 Acetone
 Concen: 3.18 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.006 min
 Lab File: P0826013.D
 Acq: 26 Aug 2022 04:19 pm

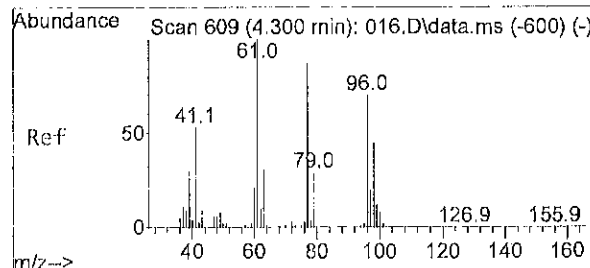
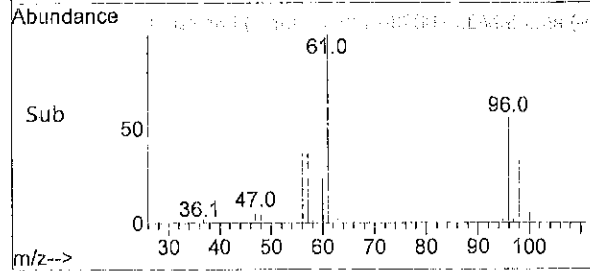
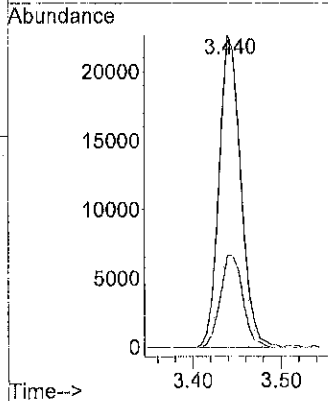
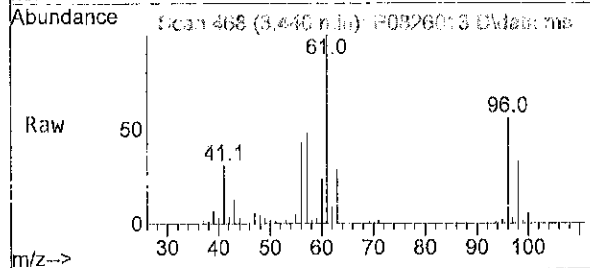
Tgt Ion	Resp	Ion Ratio	Lower	Upper
43	7702	100		
58		23.2	27.1	40.7#





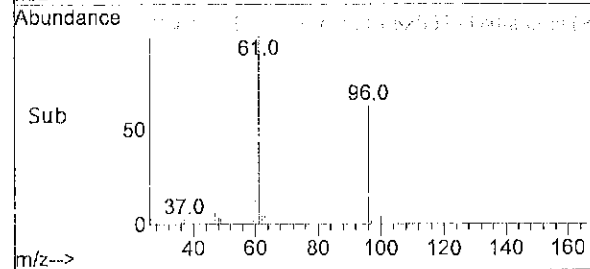
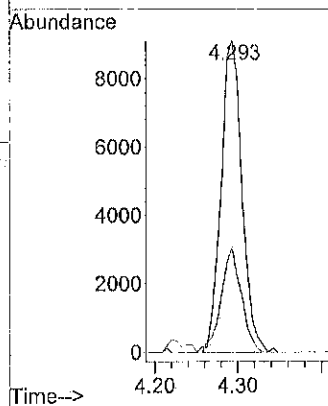
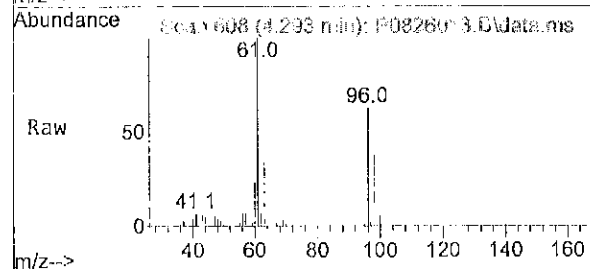
#13
 (trans) 1,2-Dichloroethene
 Concen: 0.85 ppb
 RT: 3.440 min Scan# 468
 Delta R.T. -0.000 min
 Lab File: P0826013.D
 Acq: 26 Aug 2022 04:19 pm

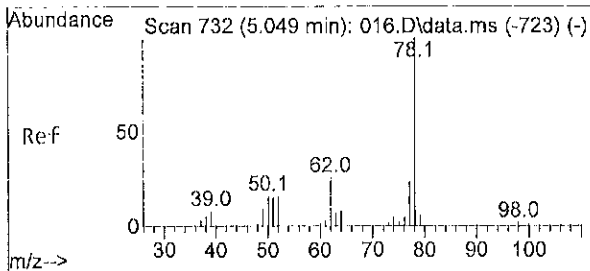
Tgt Ion: 61 Resp: 38711
 Ion Ratio Lower Upper
 61 100
 63 30.4 24.4 36.6



#19
 (cis) 1,2-Dichloroethene
 Concen: 0.35 ppb
 RT: 4.293 min Scan# 608
 Delta R.T. -0.001 min
 Lab File: P0826013.D
 Acq: 26 Aug 2022 04:19 pm

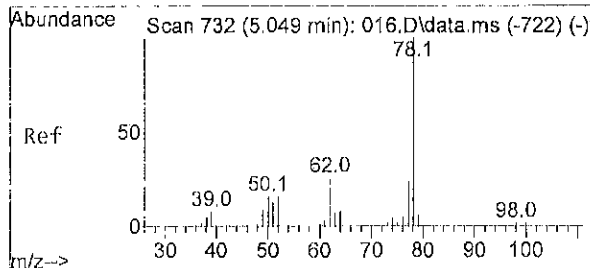
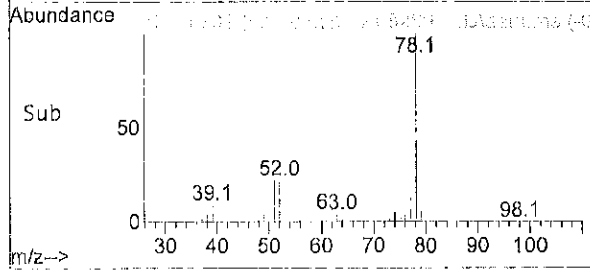
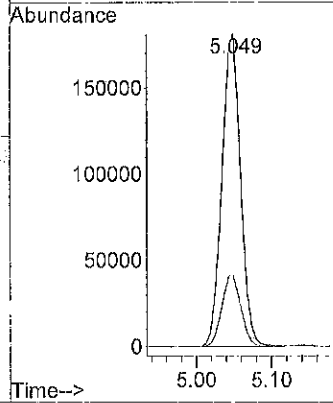
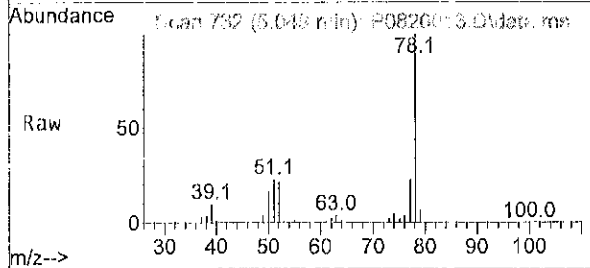
Tgt Ion: 61 Resp: 16041
 Ion Ratio Lower Upper
 61 100
 63 32.2 24.6 37.0





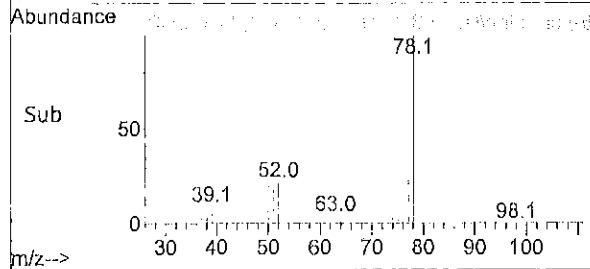
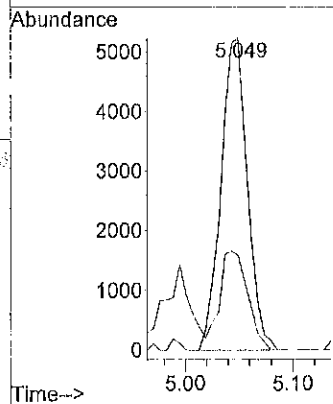
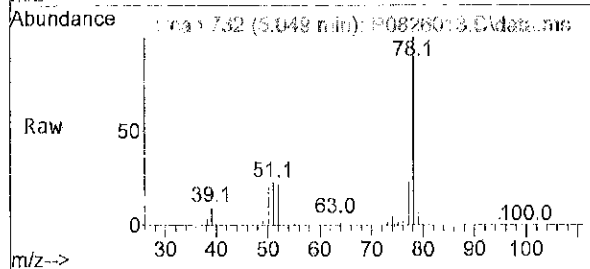
#27
Benzene
Concen: 3.02 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.000 min
Lab File: P0826013.D
Acq: 26 Aug 2022 04:19 pm

Tgt Ion: 78 Resp: 312359
Ion Ratio Lower Upper
78 100
77 23.6 18.5 27.7



#28
1,2-Dichloroethane
Concen: 0.41 ppb
RT: 5.049 min Scan# 732
Delta R.T. 0.006 min
Lab File: P0826013.D
Acq: 26 Aug 2022 04:19 pm

Tgt Ion: 62 Resp: 8945
Ion Ratio Lower Upper
62 100
64 33.5 24.7 37.1



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826014.D
 Acq On : 26 Aug 2022 04:45 pm
 Operator :
 Sample : 08-268-08g
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 17:31:14 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

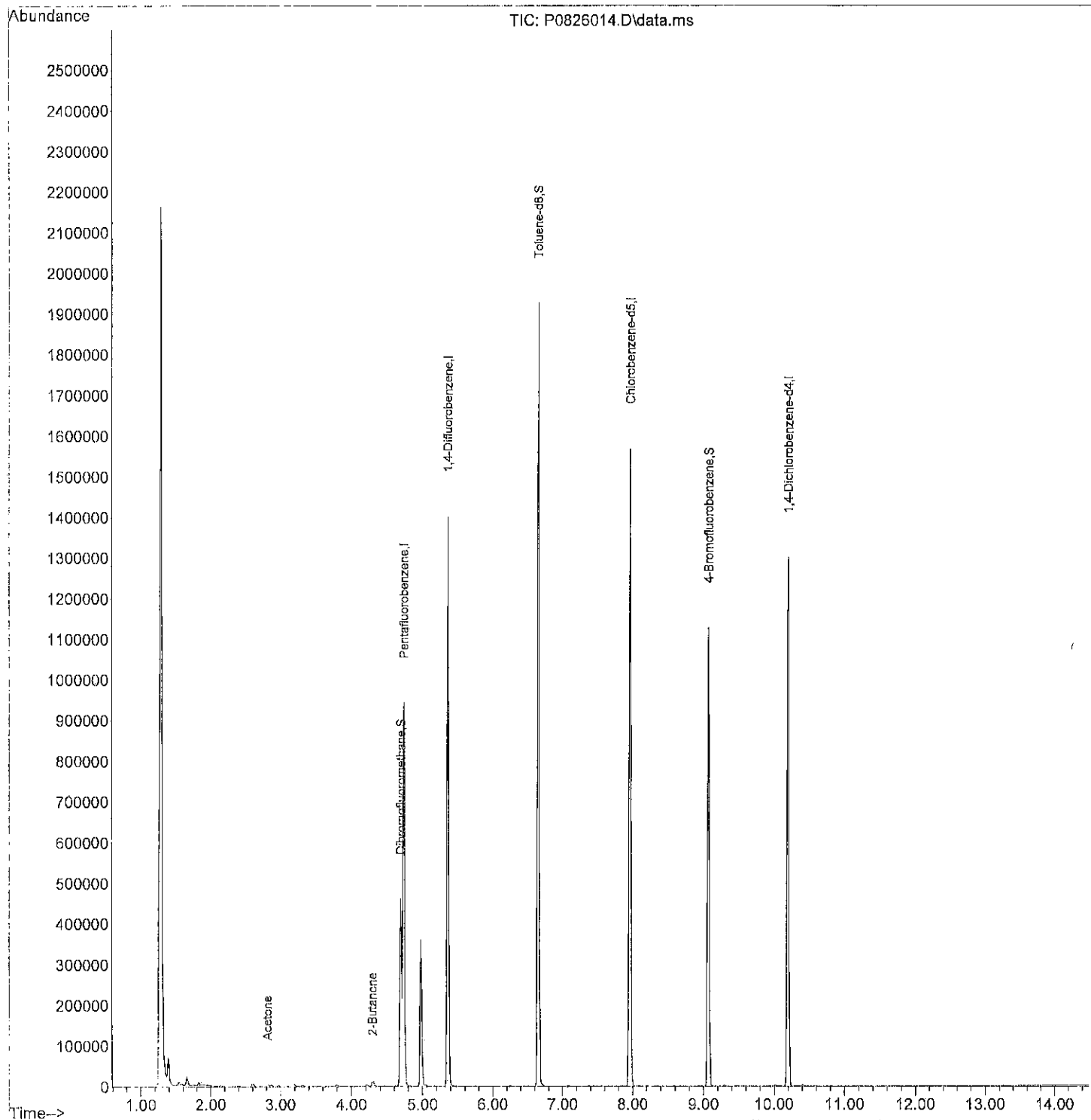
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

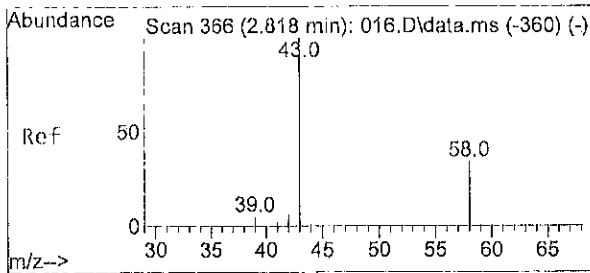
Internal Standards						
1) Pentafluorobenzene	4.738	168	559555	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	949698	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	807279	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	345852	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	257074	10.37	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	103.70%		
37) Toluene-d8	6.653	98	1145107	9.92	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.20%		
55) 4-Bromofluorobenzene	9.073	95	375258	10.33	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	103.30%		
Target Compounds						
9) Acetone	2.818	43	5919	2.43	ppb	94
20) 2-Butanone	4.299	43	20188	4.82	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826014.D
Acq On : 26 Aug 2022 04:45 pm
Operator :
Sample : 08-268-08g
Misc :
ALS Vial : 14 Sample Multiplier: 1

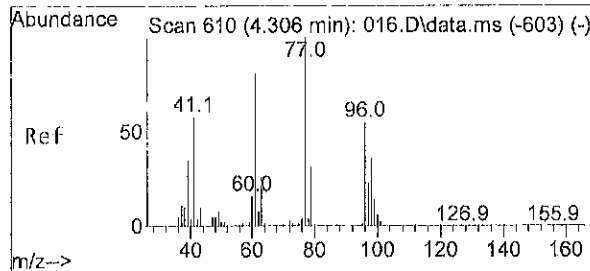
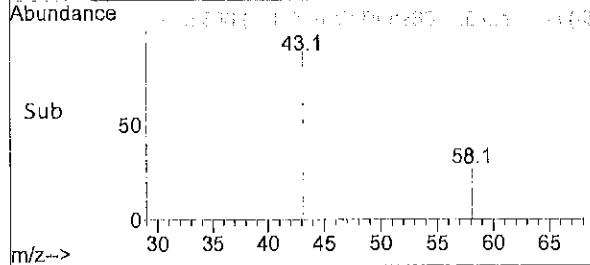
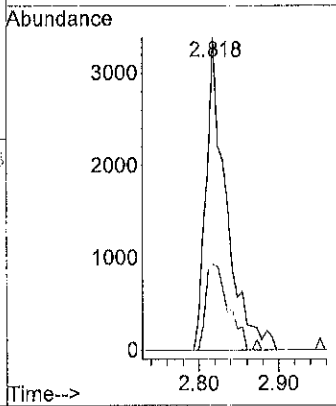
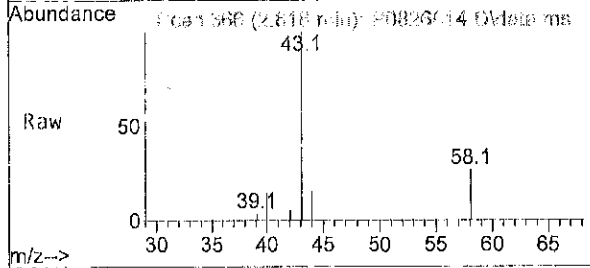
Quant Time: Aug 26 17:31:14 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





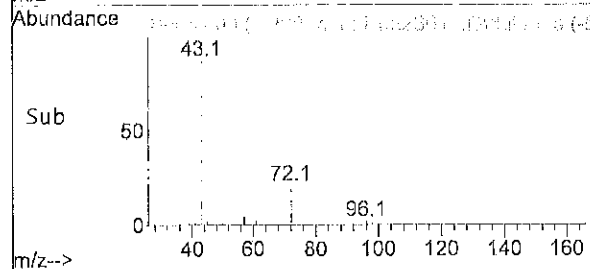
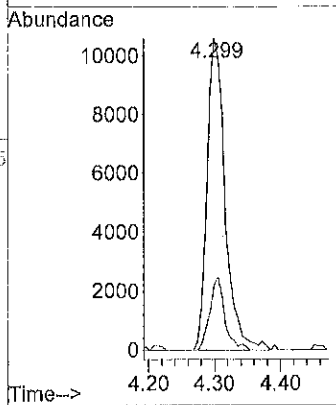
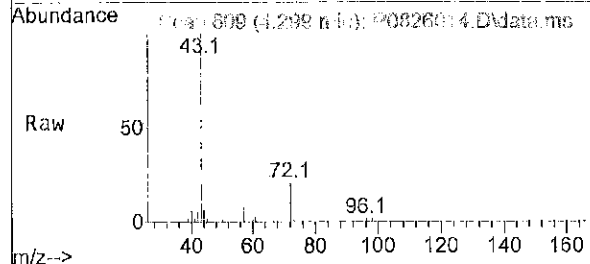
#9
 Acetone
 Concen: 2.43 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.006 min
 Lab File: P0826014.D
 Acq: 26 Aug 2022 04:45 pm

Tgt Ion	Resp	Ion Ratio	Lower	Upper
43	5919	100		
58		30.4	27.1	40.7



#20
 2-Butanone
 Concen: 4.82 ppb
 RT: 4.299 min Scan# 609
 Delta R.T. -0.001 min
 Lab File: P0826014.D
 Acq: 26 Aug 2022 04:45 pm

Tgt Ion	Resp	Ion Ratio	Lower	Upper
43	20188	100		
72		19.4	17.8	26.6



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826015.D
 Acq On : 26 Aug 2022 05:12 pm
 Operator :
 Sample : 08-268-09g
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

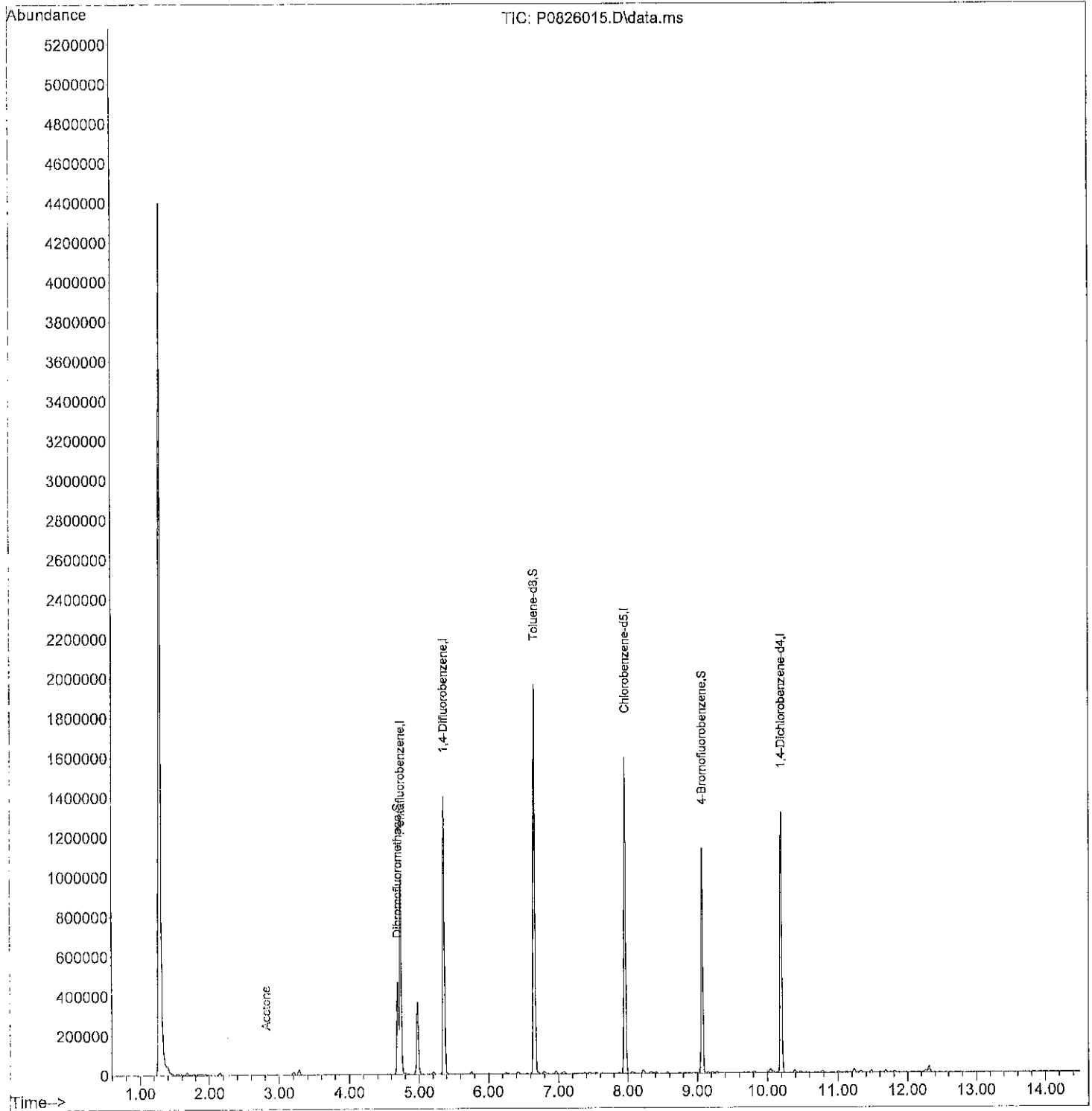
Quant Time: Aug 26 17:31:21 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

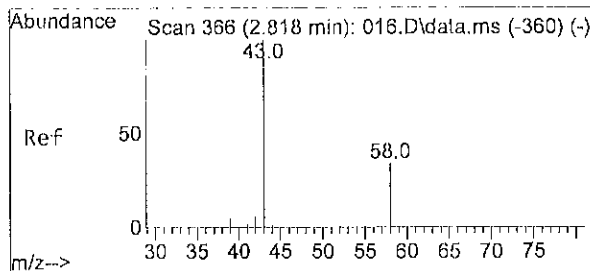
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.739	168	564377	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	969935	10.00	ppb	0.00
39) Chlorobenzene-d5	7.964	117	823056	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.201	152	349892	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.696	111	259481	10.37	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	103.70%		
37) Toluene-d8	6.653	98	1169151	9.91	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.10%		
55) 4-Bromofluorobenzene	9.073	95	381224	10.30	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	103.00%		
Target Compounds						
9) Acetone	2.818	43	6557	2.67	ppb	# 86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826015.D
Acq On : 26 Aug 2022 05:12 pm
Operator :
Sample : 08-268-09g
Misc :
ALS Vial : 15 Sample Multiplier: 1

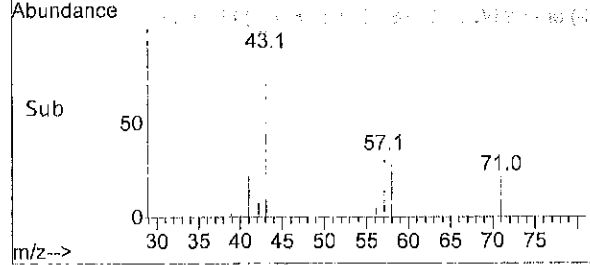
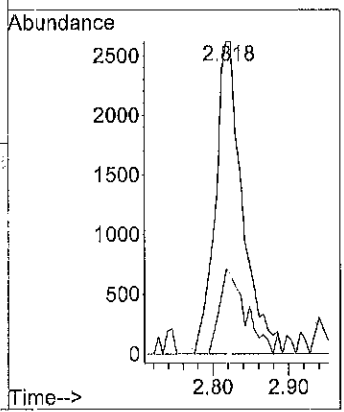
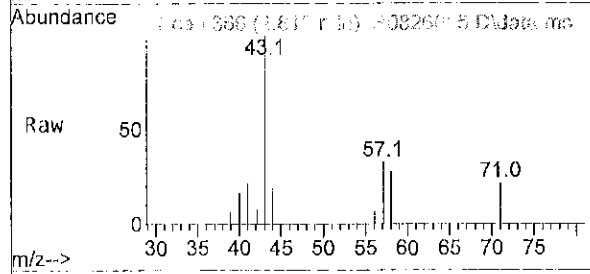
Quant Time: Aug 26 17:31:21 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
Qlast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





#9
 Acetone
 Concen: 2.67 ppb
 RT: 2.818 min Scan# 366
 Delta R.T. 0.006 min
 Lab File: P0826015.D
 Acq: 26 Aug 2022 05:12 pm

Tgt Ion: 43 Resp: 6557
 Ion Ratio Lower Upper
 43 100
 58 25.9 27.1 40.7#



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826006.D
 Acq On : 26 Aug 2022 01:13 pm
 Operator :
 Sample : MB0826W2
 Misc : V4-098-03
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 17:30:03 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 Qlast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

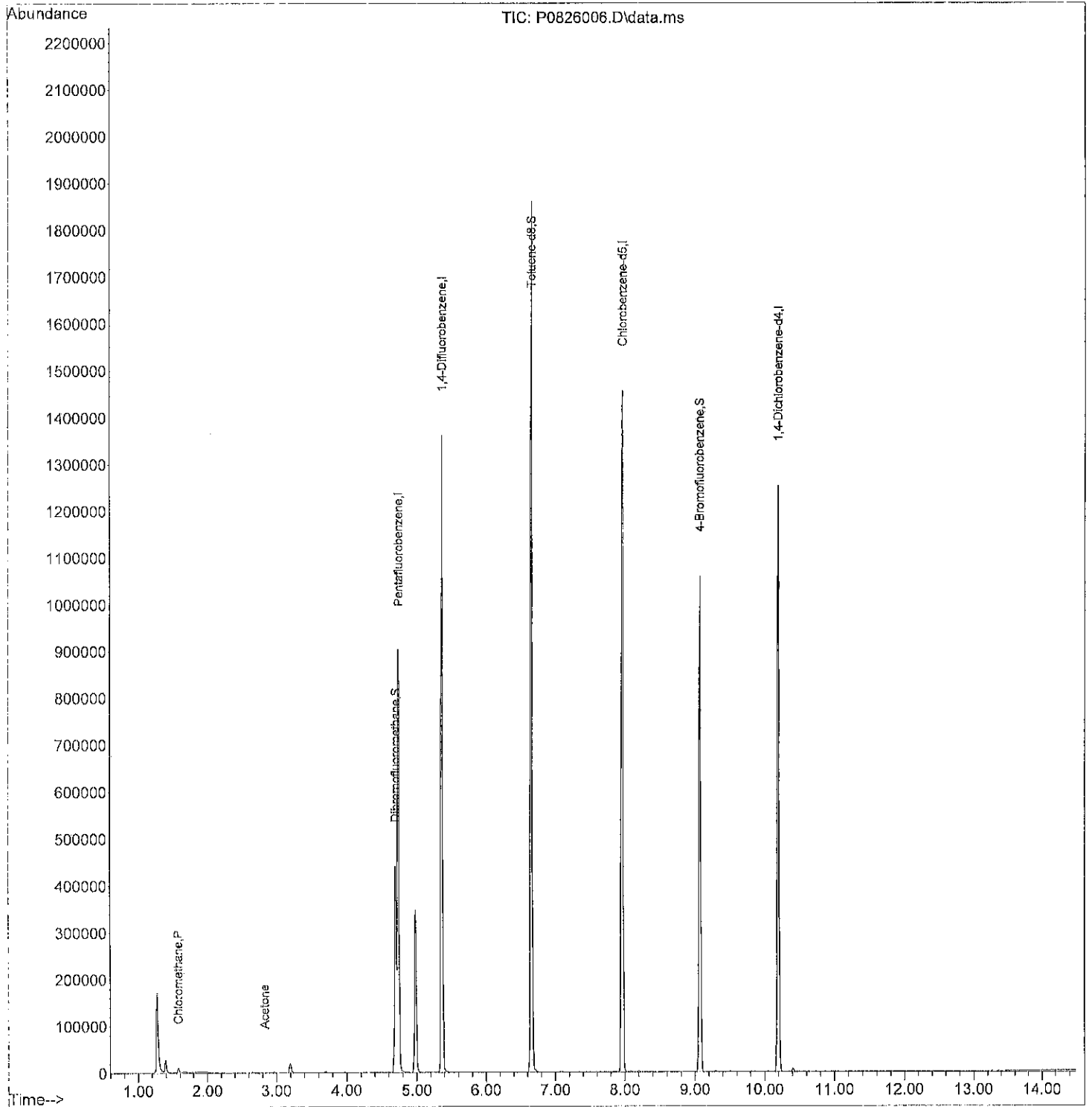
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

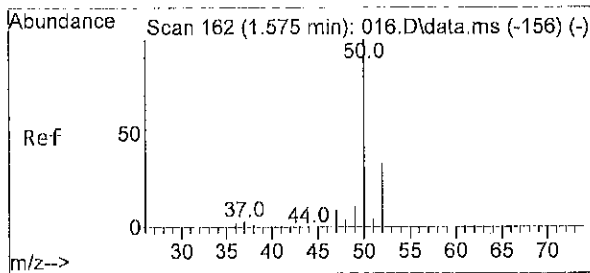
Internal Standards							
1) Pentafluorobenzene	4.738	168	536017	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	914803	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	778270	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.195	152	333746	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.696	111	243338	10.24	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery =	102.40%			
37) Toluene-d8	6.653	98	1089578	9.80	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery =	98.00%			
55) 4-Bromofluorobenzene	9.067	95	357151	10.20	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery =	102.00%			
Target Compounds							
							Qvalue
3) Chloromethane	1.574	50	7780	0.21	ppb		95
9) Acetone	2.830	43	962	0.41	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
Data File : P0826006.D
Acq On : 26 Aug 2022 01:13 pm
Operator :
Sample : MB0826W2
Misc : V4-098-03
ALS Vial : 6 Sample Multiplier: 1

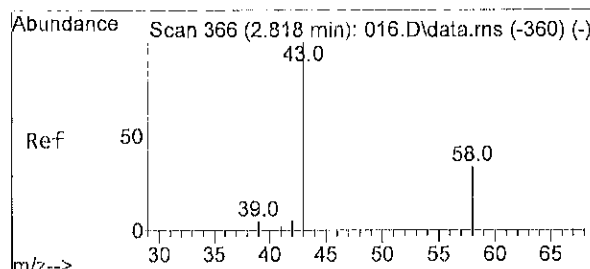
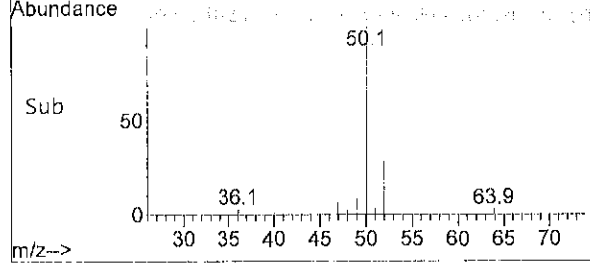
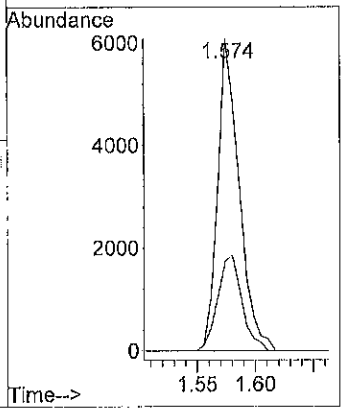
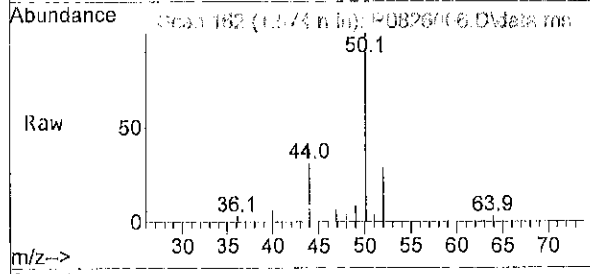
Quant Time: Aug 26 17:30:03 2022
Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
Quant Title :
QLast Update : Thu Aug 25 10:21:38 2022
Response via : Initial Calibration





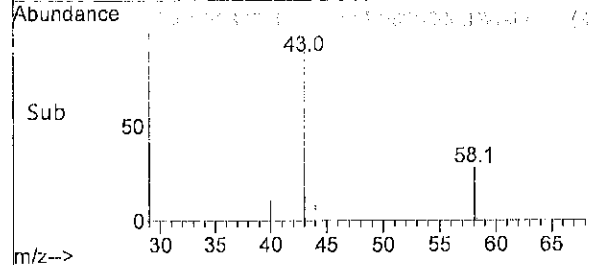
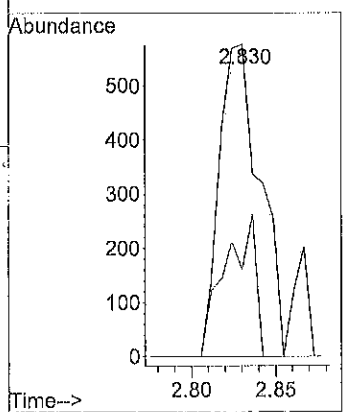
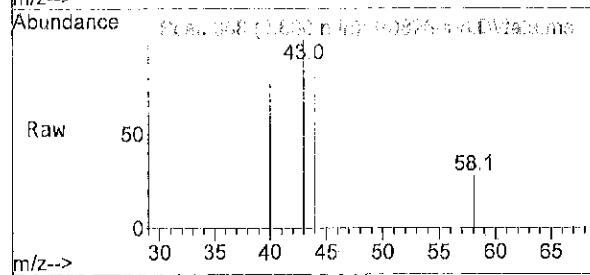
#3
 Chloromethane
 Concen: 0.21 ppb
 RT: 1.574 min Scan# 162
 Delta R.T. 0.006 min
 Lab File: P0826006.D
 Acq: 26 Aug 2022 01:13 pm

Tgt Ion	Resp	Ion Ratio	Lower	Upper
50	100			
52	34.6	25.7	38.5	



#9
 Acetone
 Concen: 0.41 ppb
 RT: 2.830 min Scan# 368
 Delta R.T. 0.018 min
 Lab File: P0826006.D
 Acq: 26 Aug 2022 01:13 pm

Tgt Ion	Resp	Ion Ratio	Lower	Upper
43	100			
58	34.4	27.1	40.7	



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.738	168	580511	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	980249	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	836663	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.195	152	353975	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.690	111	264907	10.30	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery	=	103.00%		
37) Toluene-d8	6.653	98	1180164	9.90	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery	=	99.00%		
55) 4-Bromofluorobenzene	9.067	95	390529	10.38	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery	=	103.80%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.428	85	167784	10.18	ppb		99
3) Chloromethane	1.574	50	361713	9.21	ppb		100
4) Vinyl Chloride	1.678	62	336670	9.18	ppb		100
5) Bromomethane	1.958	96	90607	7.12	ppb		100
6) Chloroethane	2.062	64	211365	9.03	ppb		99
7) Trichlorofluoromethane	2.306	101	399340	9.60	ppb		100
8) 1,1-Dichloroethene	2.775	61	438126	9.30	ppb		100
9) Acetone	2.812	43	27974	11.08	ppb		98
10) Iodomethane	2.903	142	235876	9.76	ppb		99
11) Carbon Disulfide	2.970	76	570896	8.65	ppb		100
12) Methylene Chloride	3.190	49	401501	10.44	ppb		100
13) (trans) 1,2-Dichloroet...	3.440	61	436851	9.16	ppb		100
14) Methyl t-Butyl Ether	3.452	73	380197	11.17	ppb		99
15) n-Hexane	3.702	57	513963	12.17	ppb		99
16) 1,1-Dichloroethane	3.800	63	508348	9.28	ppb		100
17) Vinyl Acetate	3.842	43	290146	12.71	ppb		99
18) 2,2-Dichloropropane	4.299	77	349810	18.61	ppb		100
19) (cis) 1,2-Dichloroethene	4.293	61	474825	9.89	ppb		100
20) 2-Butanone	4.299	43	54386	13.37	ppb		99
21) Bromochloromethane	4.495	130	110193	10.44	ppb		99
22) Chloroform	4.562	83	414546	9.52	ppb		100
23) 1,1,1-Trichloroethane	4.732	97	378313	8.95	ppb		96
25) Carbon Tetrachloride	4.879	117	336195	9.03	ppb		99
26) 1,1-Dichloropropene	4.873	75	345947	9.17	ppb		99
27) Benzene	5.049	78	999487	9.26	ppb		99
28) 1,2-Dichloroethane	5.043	62	244575	10.71	ppb		100
30) Trichloroethene	5.592	130	255110	9.28	ppb		100
31) 1,2-Dichloropropane	5.781	63	272630	10.26	ppb		99
32) Dibromomethane	5.878	174	87584	11.33	ppb		99
33) Bromodichloromethane	6.006	83	268299	10.29	ppb		100
34) 2-Chloroethyl Vinyl Ether	6.269	63	86946	13.07	ppb		100
35) (cis) 1,3-Dichloropropene	6.403	75	328058	11.65	ppb		100
36) Methyl Isobutyl Ketone	6.537	43	122625	13.49	ppb		100
38) Toluene	6.714	91	1073014	9.23	ppb		100
40) (trans) 1,3-Dichloropr...	6.884	75	225383	11.43	ppb		99

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

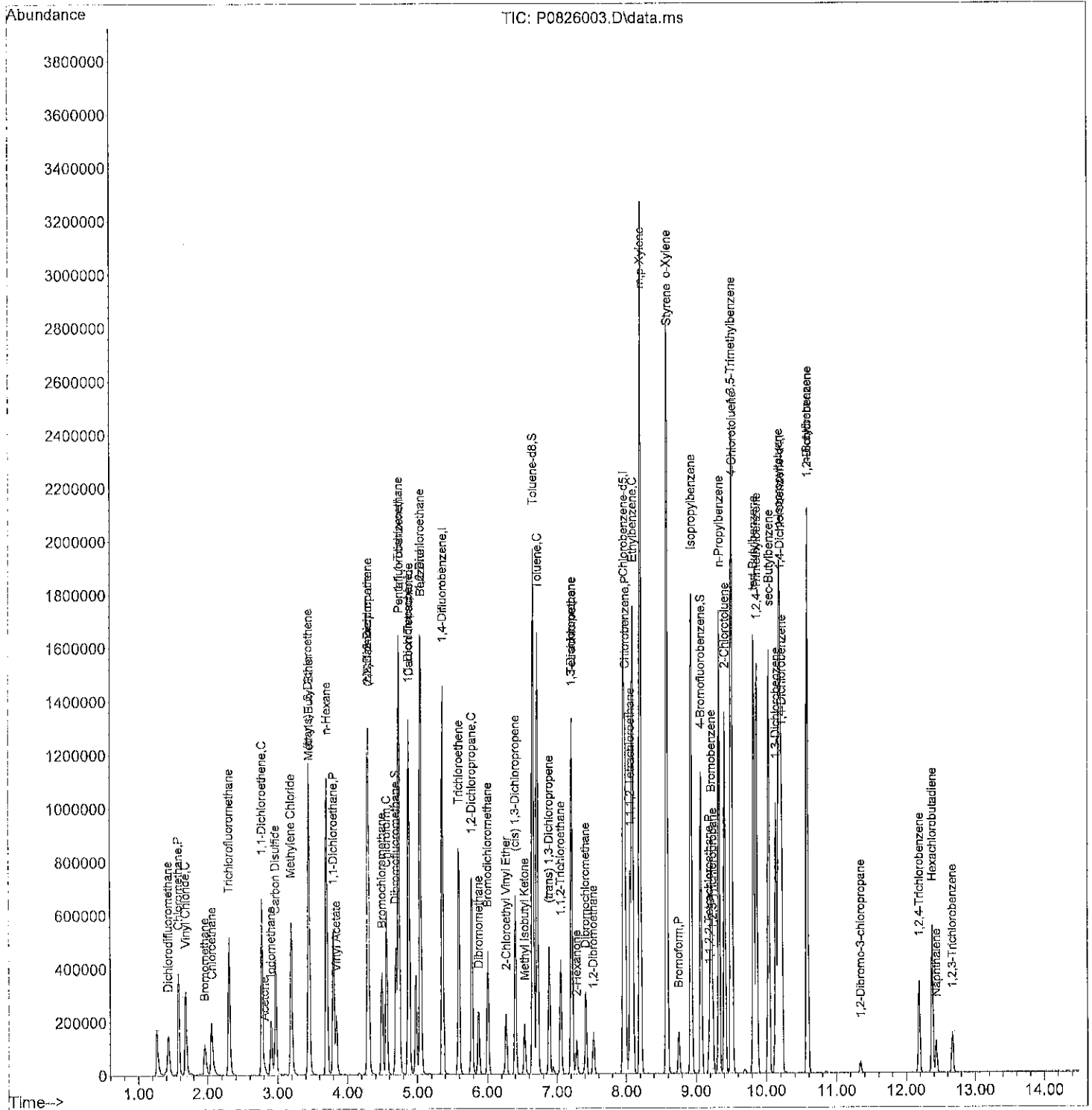
Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,2-Trichloroethane	7.055	97	121117	10.37	ppb	97
42) Tetrachloroethene	7.214	166	273796	8.96	ppb	99
43) 1,3-Dichloropropane	7.207	76	229108	10.48	ppb	98
44) 2-Hexanone	7.281	43	79952	12.32	ppb	100
45) Dibromochloromethane	7.415	129	153955	10.92	ppb	98
46) 1,2-Dibromoethane	7.524	107	108333	10.87	ppb	100
47) Chlorobenzene	7.988	112	637249	9.32	ppb	100
48) 1,1,1,2-Tetrachloroethane	8.061	133	201112	9.77	ppb	98
49) Ethylbenzene	8.091	91	1198326	8.81	ppb	100
50) m,p-Xylene	8.201	91	1861792	17.82	ppb	100
51) o-Xylene	8.579	91	907243	9.16	ppb	99
52) Styrene	8.585	104	685384	10.09	ppb	100
53) Bromoform	8.750	173	73222	10.64	ppb	99
54) Isopropylbenzene	8.933	105	1154392	9.05	ppb	99
57) Bromobenzene	9.219	156	226985	9.43	ppb	100
58) 1,1,2,2-Tetrachloroethane	9.189	83	116349	10.42	ppb	100
59) 1,2,3-Trichloropropane	9.238	75	109881	10.36	ppb	91
60) n-Propylbenzene	9.329	91	1347863	8.73	ppb	100
61) 2-Chlorotoluene	9.408	126	248911	9.04	ppb	99
62) 4-Chlorotoluene	9.512	126	248989	9.11	ppb	100
63) 1,3,5-Trimethylbenzene	9.500	105	906110	8.65	ppb	99
64) tert-Butylbenzene	9.817	119	778297	8.55	ppb	100
65) 1,2,4-Trimethylbenzene	9.865	105	869475	8.92	ppb	99
66) sec-Butylbenzene	10.036	105	1090964	8.78	ppb	100
67) 1,3-Dichlorobenzene	10.134	146	432507	9.32	ppb	99
68) p-Isopropyltoluene	10.176	119	921299	8.78	ppb	99
69) 1,4-Dichlorobenzene	10.219	146	415850	9.36	ppb	100
70) 1,2-Dichlorobenzene	10.585	146	320045	9.87	ppb	99
71) n-Butylbenzene	10.579	91	814272	8.92	ppb	99
72) 1,2-Dibromo-3-chloropr...	11.347	157	12401	11.65	ppb	97
73) 1,2,4-Trichlorobenzene	12.188	180	112150	12.09	ppb	99
74) Hexachlorobutadiene	12.371	225	107748	9.21	ppb	99
75) Naphthalene	12.432	128	97515	13.15	ppb	98
76) 1,2,3-Trichlorobenzene	12.670	180	50623	13.28	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration



Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826004.D
 Acq On : 26 Aug 2022 12:07 pm
 Operator :
 Sample : SBD0826W2
 Misc : V4-097-13,V4-098-01
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 17:28:14 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.732	168	589561	10.00	ppb	0.00	
29) 1,4-Difluorobenzene	5.360	114	988546	10.00	ppb	0.00	
39) Chlorobenzene-d5	7.963	117	833597	10.00	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	10.195	152	348308	10.00	ppb	0.00	
System Monitoring Compounds							
24) Dibromofluoromethane	4.690	111	268128	10.26	ppb	0.00	
Spiked Amount	10.000	Range 75 - 127	Recovery =	102.60%			
37) Toluene-d8	6.653	98	1194134	9.93	ppb	0.00	
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.30%			
55) 4-Bromofluorobenzene	9.067	95	387655	10.34	ppb	0.00	
Spiked Amount	10.000	Range 78 - 125	Recovery =	103.40%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.422	85	163216	9.77	ppb		97
3) Chloromethane	1.574	50	369217	9.25	ppb		99
4) Vinyl Chloride	1.672	62	354265	9.51	ppb		100
5) Bromomethane	1.965	96	113280	8.77	ppb		100
6) Chloroethane	2.062	64	224733	9.45	ppb		99
7) Trichlorofluoromethane	2.306	101	412595	9.77	ppb		99
8) 1,1-Dichloroethene	2.769	61	460226	9.62	ppb		99
9) Acetone	2.806	43	30553	11.91	ppb		99
10) Iodomethane	2.903	142	248330	10.12	ppb		100
11) Carbon Disulfide	2.964	76	613716	9.16	ppb		100
12) Methylene Chloride	3.190	49	412133	10.56	ppb		100
13) (trans) 1,2-Dichloroet...	3.440	61	460943	9.52	ppb		100
14) Methyl t-Butyl Ether	3.446	73	397793	11.51	ppb		99
16) 1,1-Dichloroethane	3.793	63	540328	9.71	ppb		100
17) Vinyl Acetate	3.842	43	308130	13.29	ppb		99
18) 2,2-Dichloropropane	4.300	77	376583	19.76	ppb		100
19) (cis) 1,2-Dichloroethene	4.287	61	501823	10.29	ppb		100
20) 2-Butanone	4.293	43	56961	13.81	ppb		100
21) Bromochloromethane	4.488	130	116589	10.88	ppb		98
22) Chloroform	4.556	83	436108	9.86	ppb		99
23) 1,1,1-Trichloroethane	4.732	97	398820	9.29	ppb		98
25) Carbon Tetrachloride	4.879	117	354231	9.37	ppb		100
26) 1,1-Dichloropropene	4.873	75	361848	9.44	ppb		99
27) Benzene	5.043	78	1053238	9.61	ppb		99
28) 1,2-Dichloroethane	5.043	62	252696	10.90	ppb		100
30) Trichloroethene	5.592	130	271188	9.78	ppb		98
31) 1,2-Dichloropropane	5.781	63	288329	10.76	ppb		98
32) Dibromomethane	5.872	174	91938	11.80	ppb		99
33) Bromodichloromethane	6.006	83	285622	10.86	ppb		99
34) 2-Chloroethyl Vinyl Ether	6.269	63	95753	14.27	ppb		98
35) (cis) 1,3-Dichloropropene	6.403	75	350726	12.35	ppb		100
36) Methyl Isobutyl Ketone	6.531	43	131903	14.39	ppb		99
38) Toluene	6.714	91	1140767	9.73	ppb		100
40) (trans) 1,3-Dichloropr...	6.884	75	235292	11.98	ppb		98
41) 1,1,2-Trichloroethane	7.049	97	127546	10.96	ppb		96

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826004.D
 Acq On : 26 Aug 2022 12:07 pm
 Operator :
 Sample : SBD0826W2
 Misc : V4-097-13,V4-098-01
 ALS Vial : 4 Sample Multiplier: 1

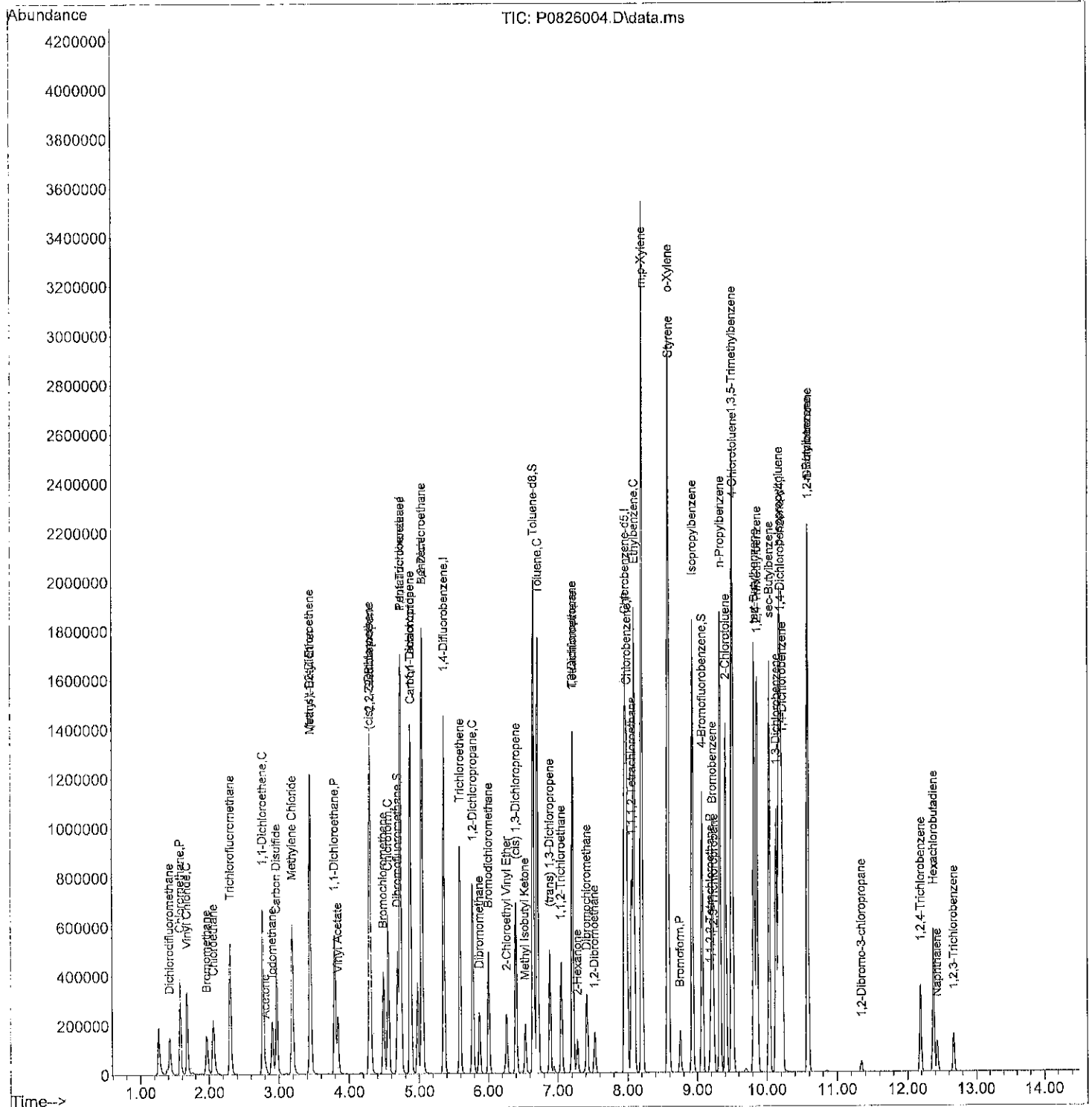
Quant Time: Aug 26 17:28:14 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Tetrachloroethene	7.214	166	286468	9.41	ppb	100
43) 1,3-Dichloropropane	7.207	76	235262	10.80	ppb	99
44) 2-Hexanone	7.281	43	88405	13.67	ppb	98
45) Dibromochloromethane	7.415	129	158778	11.30	ppb	100
46) 1,2-Dibromoethane	7.524	107	114013	11.48	ppb	98
47) Chlorobenzene	7.988	112	665994	9.78	ppb	98
48) 1,1,1,2-Tetrachloroethane	8.061	133	211231	10.30	ppb	99
49) Ethylbenzene	8.091	91	1267453	9.35	ppb	100
50) m,p-Xylene	8.201	91	1963455	18.87	ppb	100
51) o-Xylene	8.579	91	950303	9.63	ppb	100
52) Styrene	8.585	104	720299	10.64	ppb	100
53) Bromoform	8.750	173	78255	11.42	ppb	99
54) Isopropylbenzene	8.933	105	1220371	9.60	ppb	99
57) Bromobenzene	9.219	156	238575	10.08	ppb	100
58) 1,1,2,2-Tetrachloroethane	9.189	83	119637	10.89	ppb	98
59) 1,2,3-Trichloropropane	9.238	75	114377	10.96	ppb	90
60) n-Propylbenzene	9.329	91	1412704	9.30	ppb	100
61) 2-Chlorotoluene	9.408	126	261657	9.66	ppb	99
62) 4-Chlorotoluene	9.512	126	262229	9.75	ppb	100
63) 1,3,5-Trimethylbenzene	9.500	105	952938	9.24	ppb	100
64) tert-Butylbenzene	9.823	119	819493	9.15	ppb	100
65) 1,2,4-Trimethylbenzene	9.865	105	911386	9.50	ppb	99
66) sec-Butylbenzene	10.036	105	1144018	9.36	ppb	100
67) 1,3-Dichlorobenzene	10.134	146	450024	9.85	ppb	99
68) p-Isopropyltoluene	10.176	119	974868	9.44	ppb	100
69) 1,4-Dichlorobenzene	10.219	146	431763	9.88	ppb	99
70) 1,2-Dichlorobenzene	10.585	146	329020	10.31	ppb	99
71) n-Butylbenzene	10.579	91	860862	9.59	ppb	99
72) 1,2-Dibromo-3-chloropr...	11.347	157	13128	12.53	ppb	98
73) 1,2,4-Trichlorobenzene	12.188	180	115613	12.67	ppb	99
74) Hexachlorobutadiene	12.371	225	112229	9.75	ppb	99
75) Naphthalene	12.426	128	100186	13.73	ppb	99
76) 1,2,3-Trichlorobenzene	12.670	180	52640	14.03	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826004.D
 Acq On : 26 Aug 2022 12:07 pm
 Operator :
 Sample : SBD0826W2
 Misc : V4-097-13,V4-098-01
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 17:28:14 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	117	0.00
2	Dichlorodifluoromethane	10.000	10.183	-1.8	160	0.00
3 P	Chloromethane	10.000	9.207	7.9	125	0.00
4 C	Vinyl Chloride	10.000	9.176	8.2	120	0.00
5	Bromomethane	10.000	7.122	28.8#	92	0.00
6	Chloroethane	10.000	9.025	9.7	114	0.00
7	Trichlorofluoromethane	10.000	9.604	4.0	120	0.00
8 C	1,1-Dichloroethene	10.000	9.303	7.0	114	0.00
9	Acetone	10.000	11.076	-10.8	123	0.00
10	Iodomethane	10.000	9.762	2.4	102	0.00
11	Carbon Disulfide	10.000	8.655	13.5	102	0.00
12	Methylene Chloride	10.000	10.438	-4.4	124	0.00
13	(trans) 1,2-Dichloroethene	10.000	9.160	8.4	112	0.00
14	Methyl t-Butyl Ether	10.000	11.175	-11.8	132	0.00
15	n-Hexane	10.000	12.169	-21.7#	156	0.00
16 P	1,1-Dichloroethane	10.000	9.278	7.2	111	0.00
17	Vinyl Acetate	10.000	12.710	-27.1#	144	0.00
18	2,2-Dichloropropane	10.000	18.608	-86.1#	216	0.00
19	(cis) 1,2-Dichloroethene	10.000	9.885	1.2	124	0.00
20	2-Butanone	10.000	13.371	-33.7#	149	0.00
21	Bromochloromethane	10.000	10.443	-4.4	129	0.00
22 C	Chloroform	10.000	9.518	4.8	115	0.00
23	1,1,1-Trichloroethane	10.000	8.952	10.5	109	0.00
24 S	Dibromofluoromethane	10.000	10.296	-3.0	121	0.00
25	Carbon Tetrachloride	10.000	9.032	9.7	110	0.00
26	1,1-Dichloropropene	10.000	9.169	8.3	110	0.00
27	Benzene	10.000	9.263	7.4	112	0.00
28	1,2-Dichloroethane	10.000	10.711	-7.1	130	0.00
29 I	1,4-Difluorobenzene	10.000	10.000	0.0	114	0.00
30	Trichloroethene	10.000	9.278	7.2	109	0.00
31 C	1,2-Dichloropropane	10.000	10.257	-2.6	118	0.00
32	Dibromomethane	10.000	11.335	-13.4	130	0.00
33	Bromodichloromethane	10.000	10.287	-2.9	121	0.00
34	2-Chloroethyl Vinyl Ether	10.000	13.066	-30.7#	140	0.00
35	(cis) 1,3-Dichloropropene	10.000	11.646	-16.5	138	0.00
36	Methyl Isobutyl Ketone	10.000	13.494	-34.9#	147	0.00
37 S	Toluene-d8	10.000	9.901	1.0	114	0.00
38 C	Toluene	10.000	9.231	7.7	110	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	120	0.00
40	(trans) 1,3-Dichloropropene	10.000	11.429	-14.3	144	0.00
41	1,1,2-Trichloroethane	10.000	10.373	-3.7	132	0.00
42	Tetrachloroethene	10.000	8.959	10.4	112	0.00
43	1,3-Dichloropropane	10.000	10.479	-4.8	132	0.00
44	2-Hexanone	10.000	12.317	-23.2#	148	0.00

see separate CCV for Hexane
SD 8-29-22

Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area	% Dev(min)
45	Dibromochloromethane	10.000	10.920	-9.2	131	0.00
46	1,2-Dibromoethane	10.000	10.870	-8.7	133	0.00
47 P	Chlorobenzene	10.000	9.322	6.8	117	0.00
48	1,1,1,2-Tetrachloroethane	10.000	9.769	2.3	118	0.00
49 C	Ethylbenzene	10.000	8.810	11.9	109	0.00
50	m,p-Xylene	20.000	17.824	10.9	110	0.00
51	o-Xylene	10.000	9.158	8.4	112	0.00
52	Styrene	10.000	10.086	-0.9	117	0.00
53 P	Bromoform	10.000	10.642	-6.4	132	0.00
54	Isopropylbenzene	10.000	9.052	9.5	108	0.00
55 S	4-Bromofluorobenzene	10.000	10.376	-3.8	126	0.00
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	123	0.00
57	Bromobenzene	10.000	9.433	5.7	123	0.00
58 P	1,1,2,2-Tetrachloroethane	10.000	10.420	-4.2	135	0.00
59	1,2,3-Trichloropropane	10.000	10.359	-3.6	130	0.00
60	n-Propylbenzene	10.000	8.735	12.7	108	0.00
61	2-Chlorotoluene	10.000	9.044	9.6	113	0.00
62	4-Chlorotoluene	10.000	9.111	8.9	113	0.00
63	1,3,5-Trimethylbenzene	10.000	8.647	13.5	106	0.00
64	tert-Butylbenzene	10.000	8.549	14.5	103	0.00
65	1,2,4-Trimethylbenzene	10.000	8.918	10.8	109	0.00
66	sec-Butylbenzene	10.000	8.783	12.2	105	0.00
67	1,3-Dichlorobenzene	10.000	9.317	6.8	118	0.00
68	p-Isopropyltoluene	10.000	8.777	12.2	106	0.00
69	1,4-Dichlorobenzene	10.000	9.360	6.4	120	0.00
70	1,2-Dichlorobenzene	10.000	9.866	1.3	124	0.00
71	n-Butylbenzene	10.000	8.923	10.8	109	0.00
72	1,2-Dibromo-3-chloropropane	10.000	11.650	-16.5	133	0.00
73	1,2,4-Trichlorobenzene	10.000	12.094	-20.9#	146	0.00
74	Hexachlorobutadiene	10.000	9.212	7.9	114	0.00
75	Naphthalene	10.000	13.150	-31.5#	160	0.00
76	1,2,3-Trichlorobenzene	10.000	13.281	-32.8#	161	0.00

(#) = Out of Range

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

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(MIn)

Internal Standards						
1) Pentafluorobenzene	4.738	168	580511	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	980249	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	836663	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.195	152	353975	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	264907	10.30	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	103.00%		
37) Toluene-d8	6.653	98	1180164	9.90	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.00%		
55) 4-Bromofluorobenzene	9.067	95	390529	10.38	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	103.80%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.428	85	167784	10.18	ppb	99
3) Chloromethane	1.574	50	361713	9.21	ppb	100
4) Vinyl Chloride	1.678	62	336670	9.18	ppb	100
5) Bromomethane	1.958	96	90607	7.12	ppb	100
6) Chloroethane	2.062	64	211365	9.03	ppb	99
7) Trichlorofluoromethane	2.306	101	399340	9.60	ppb	100
8) 1,1-Dichloroethene	2.775	61	438126	9.30	ppb	100
9) Acetone	2.812	43	27974	11.08	ppb	98
10) Iodomethane	2.903	142	235876	9.76	ppb	99
11) Carbon Disulfide	2.970	76	570896	8.65	ppb	100
12) Methylene Chloride	3.190	49	401501	10.44	ppb	100
13) (trans) 1,2-Dichloroet...	3.440	61	436851	9.16	ppb	100
14) Methyl t-Butyl Ether	3.452	73	380197	11.17	ppb	99
15) n-Hexane	3.702	57	513963	12.17	ppb	99
16) 1,1-Dichloroethane	3.800	63	508348	9.28	ppb	100
17) Vinyl Acetate	3.842	43	290146	12.71	ppb	99
18) 2,2-Dichloropropane	4.299	77	349810	18.61	ppb	100
19) (cis) 1,2-Dichloroethene	4.293	61	474825	9.89	ppb	100
20) 2-Butanone	4.299	43	54386	13.37	ppb	99
21) Bromochloromethane	4.495	130	110193	10.44	ppb	99
22) Chloroform	4.562	83	414546	9.52	ppb	100
23) 1,1,1-Trichloroethane	4.732	97	378313	8.95	ppb	96
25) Carbon Tetrachloride	4.879	117	336195	9.03	ppb	99
26) 1,1-Dichloropropene	4.873	75	345947	9.17	ppb	99
27) Benzene	5.049	78	999487	9.26	ppb	99
28) 1,2-Dichloroethane	5.043	62	244575	10.71	ppb	100
30) Trichloroethene	5.592	130	255110	9.28	ppb	100
31) 1,2-Dichloropropane	5.781	63	272630	10.26	ppb	99
32) Dibromomethane	5.878	174	87584	11.33	ppb	99
33) Bromodichloromethane	6.006	83	268299	10.29	ppb	100
34) 2-Chloroethyl Vinyl Ether	6.269	63	86946	13.07	ppb	100
35) (cis) 1,3-Dichloropropene	6.403	75	328058	11.65	ppb	100
36) Methyl Isobutyl Ketone	6.537	43	122625	13.49	ppb	100
38) Toluene	6.714	91	1073014	9.23	ppb	100
40) (trans) 1,3-Dichloropr...	6.884	75	225383	11.43	ppb	99

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : SB0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

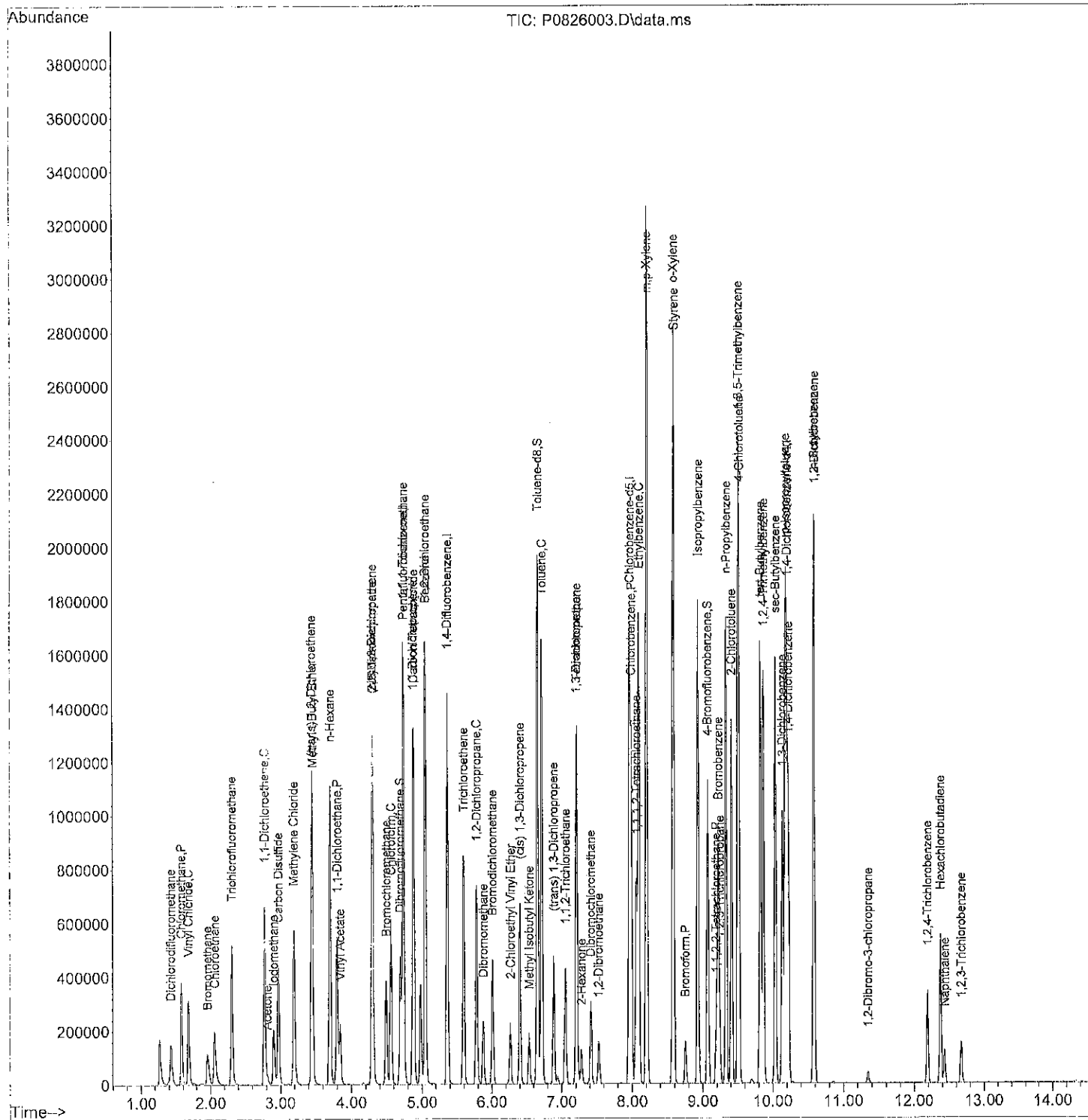
Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,2-Trichloroethane	7.055	97	121117	10.37	ppb	97
42) Tetrachloroethene	7.214	166	273796	8.96	ppb	99
43) 1,3-Dichloropropane	7.207	76	229108	10.48	ppb	98
44) 2-Hexanone	7.281	43	79952	12.32	ppb	100
45) Dibromochloromethane	7.415	129	153955	10.92	ppb	98
46) 1,2-Dibromoethane	7.524	107	108333	10.87	ppb	100
47) Chlorobenzene	7.988	112	637249	9.32	ppb	100
48) 1,1,1,2-Tetrachloroethane	8.061	133	201112	9.77	ppb	98
49) Ethylbenzene	8.091	91	1198326	8.81	ppb	100
50) m,p-Xylene	8.201	91	1861792	17.82	ppb	100
51) o-Xylene	8.579	91	907243	9.16	ppb	99
52) Styrene	8.585	104	685384	10.09	ppb	100
53) Bromoform	8.750	173	73222	10.64	ppb	99
54) Isopropylbenzene	8.933	105	1154392	9.05	ppb	99
57) Bromobenzene	9.219	156	226985	9.43	ppb	100
58) 1,1,2,2-Tetrachloroethane	9.189	83	116349	10.42	ppb	100
59) 1,2,3-Trichloropropane	9.238	75	109881	10.36	ppb	91
60) n-Propylbenzene	9.329	91	1347863	8.73	ppb	100
61) 2-Chlorotoluene	9.408	126	248911	9.04	ppb	99
62) 4-Chlorotoluene	9.512	126	248989	9.11	ppb	100
63) 1,3,5-Trimethylbenzene	9.500	105	906110	8.65	ppb	99
64) tert-Butylbenzene	9.817	119	778297	8.55	ppb	100
65) 1,2,4-Trimethylbenzene	9.865	105	869475	8.92	ppb	99
66) sec-Butylbenzene	10.036	105	1090964	8.78	ppb	100
67) 1,3-Dichlorobenzene	10.134	146	432507	9.32	ppb	99
68) p-Isopropyltoluene	10.176	119	921299	8.78	ppb	99
69) 1,4-Dichlorobenzene	10.219	146	415850	9.36	ppb	100
70) 1,2-Dichlorobenzene	10.585	146	320045	9.87	ppb	99
71) n-Butylbenzene	10.579	91	814272	8.92	ppb	99
72) 1,2-Dibromo-3-chloropr...	11.347	157	12401	11.65	ppb	97
73) 1,2,4-Trichlorobenzene	12.188	180	112150	12.09	ppb	99
74) Hexachlorobutadiene	12.371	225	107748	9.21	ppb	99
75) Naphthalene	12.432	128	97515	13.15	ppb	98
76) 1,2,3-Trichlorobenzene	12.670	180	50623	13.28	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826003.D
 Acq On : 26 Aug 2022 11:30 am
 Operator :
 Sample : S0826W2 (CCV0826W1)
 Misc : V4-097-13,V4-098-01
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 17:28:01 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826005.D
 Acq On : 26 Aug 2022 12:34 pm
 Operator :
 Sample : CCV0826W2 (Hex. only)
 Misc : V4-098-03
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 26 12:53:19 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area	Dev(min)
1 I	Pentafluorobenzene	10.000	10.000	0.0	118	0.00
15	n-Hexane	10.000	11.770	-17.7	153	0.00
24 S	Dibromofluoromethane	10.000	10.335	-3.4	123	0.00
29 I	1,4-Difluorobenzene	10.000	10.000	0.0	115	0.00
37 S	Toluene-d8	10.000	9.951	0.5	115	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	121	0.00
55 S	4-Bromofluorobenzene	10.000	10.269	-2.7	125	0.00
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	124	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

P220824WH.M Fri Aug 26 17:28:36 2022

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826005.D
 Acq On : 26 Aug 2022 12:34 pm
 Operator :
 Sample : CCV0826W2 (Hex. only)
 Misc : V4-098-03
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 26 12:53:19 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration

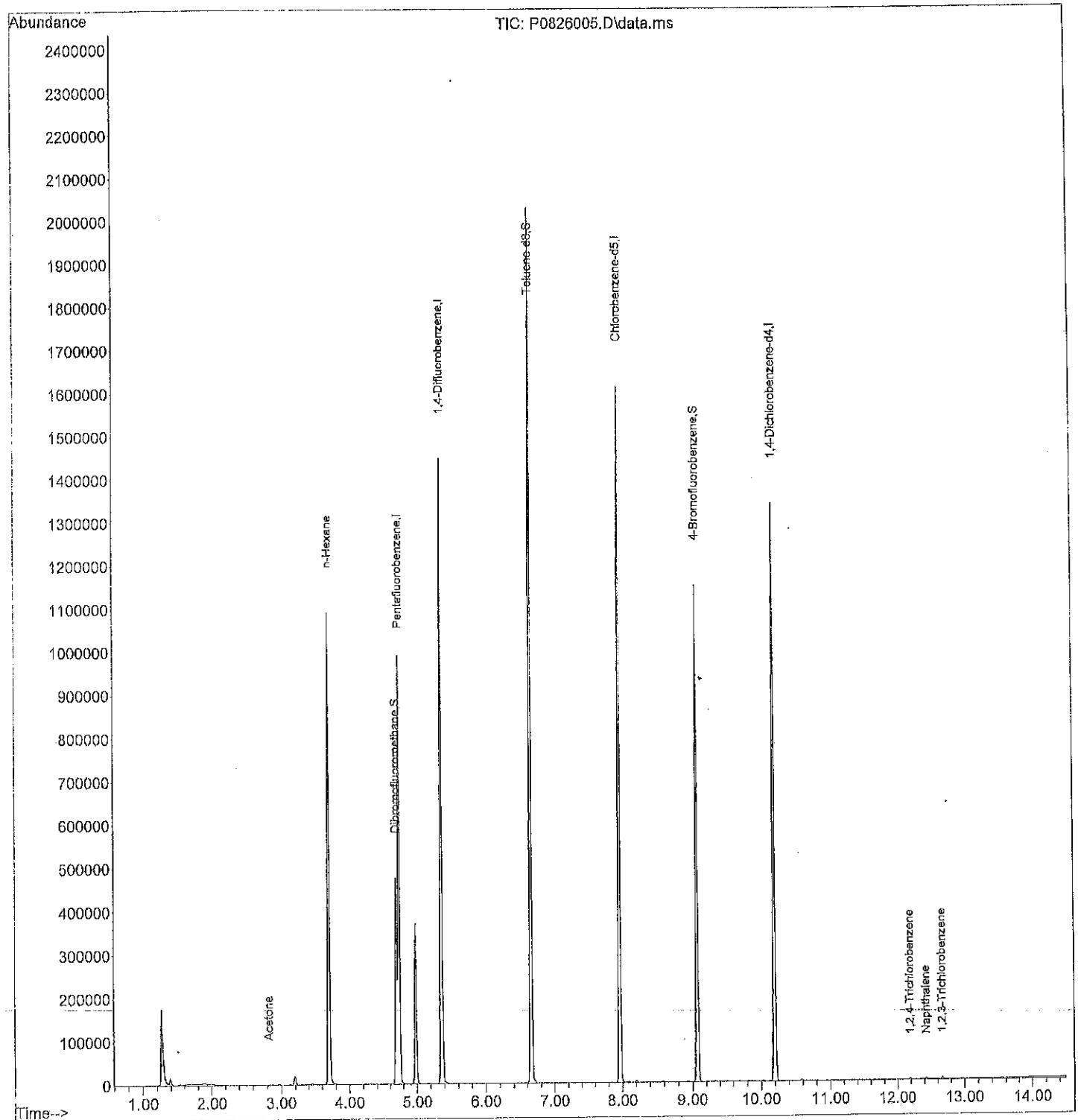
Compound	R.T.	QIon	Response	Conc	Units	Dev(MIn)
Internal Standards						
1) Pentafluorobenzene	4.738	168	587803	10.00	ppb	0.00
29) 1,4-Difluorobenzene	5.360	114	984505	10.00	ppb	0.00
39) Chlorobenzene-d5	7.963	117	839784	10.00	ppb	0.00
56) 1,4-Dichlorobenzene-d4	10.195	152	356633	10.00	ppb	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.690	111	269248	10.34	ppb	0.00
Spiked Amount	10.000	Range 75 - 127	Recovery =	103.40%		
37) Toluene-d8	6.653	98	1191269	9.95	ppb	0.00
Spiked Amount	10.000	Range 80 - 127	Recovery =	99.50%		
55) 4-Bromofluorobenzene	9.067	95	387947	10.27	ppb	0.00
Spiked Amount	10.000	Range 78 - 125	Recovery =	102.70%		
Target Compounds						
9) Acetone	2.824	43	1446	0.57	ppb #	77
12) Methylene Chloride	3.196	49	12515	Below	Cal	99
15) n-Hexane	3.702	57	503378	11.77	ppb	99
20) 2-Butanone	4.306	43	127	Below	Cal #	54
73) 1,2,4-Trichlorobenzene	12.188	180	979	0.10	ppb	89
75) Naphthalene	12.426	128	2774	0.37	ppb #	86
76) 1,2,3-Trichlorobenzene	12.670	180	1409	0.37	ppb	85

Hex only

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\MassHunter\GCMS\1\data\20220826\
 Data File : P0826005.D
 Acq On : 26 Aug 2022 12:34 pm
 Operator :
 Sample : CCV0826W2 (Hex. only)
 Misc : V4-098-03
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 26 12:53:19 2022
 Quant Method : D:\MassHunter\GCMS\1\methods\P220824WH.M
 Quant Title :
 QLast Update : Thu Aug 25 10:21:38 2022
 Response via : Initial Calibration



Total Metals
EPA 200.8/7470A Data

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,RR

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\09 September 2022\I220902W1.wszf

Creation Date: 9/2/2022 9:40:14 AM

Comment:

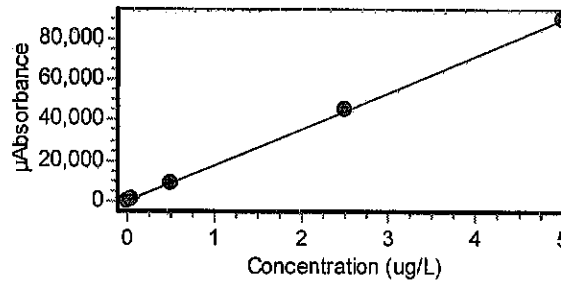
ICM
9-2-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	09/02/22 10:01:44 am	0.00000	21	101.97			N/A
Standard #1	STD	09/02/22 10:04:16 am	0.01000	183	6.10	-9.46%		N/A
Standard #2	STD	09/02/22 10:06:48 am	0.05000	881	1.39	-3.93%		N/A
Standard #3	STD	09/02/22 10:09:20 am	0.50000	9161	0.26	2.02%		N/A
Standard #4	STD	09/02/22 10:11:52 am	2.50000	45134	0.09	0.71%		N/A
Standard #5	STD	09/02/22 10:14:24 am	5.00000	89431	0.14	-0.20%		N/A

Calibration

Equation: Abs = 17917.537x + 20.611
 R2: 0.99997 RSE: 6.04%
 SEE: 236.4133
 Flags:



ICV	ICV	09/02/22 10:17:02 am	2.52040	45181	0.11			100.82
ICB	ICB	09/02/22 10:19:34 am	-0.00055	11	103.56			N/A
CCV	CCV	09/02/22 10:22:06 am	2.51900	45154	0.19			100.76
CCB	CCB	09/02/22 10:24:38 am	-0.00275	-29	24.55			N/A
MB0820F1	UNK	09/02/22 10:27:09 am	-0.00124	-2	65.69			N/A
SB0820F1	UNK	09/02/22 10:29:41 am	2.35020	42130	0.12			N/A
08-298-01c	UNK	09/02/22 10:32:13 am	-0.00349	-42	32.01			N/A
08-298-01c D	UNK	09/02/22 10:34:45 am	0.00110	40	130.65			N/A
08-298-01c L	UNK	09/02/22 10:38:28 am	-0.00834	-129	9.04			N/A
08-298-01c MS	UNK	09/02/22 10:41:01 am	2.34490	42036	0.21			N/A
08-298-01c MSD	UNK	09/02/22 10:43:33 am	2.38310	42720	0.15			N/A
08-298-02c	UNK	09/02/22 10:46:06 am	0.00082	35	41.63			N/A
08-268-01d	UNK	09/02/22 10:48:38 am	0.00355	84	35.39			N/A
08-268-02d	UNK	09/02/22 10:51:09 am	-0.00050	12	106.28			N/A
CCV	CCV	09/02/22 10:53:42 am	2.51310	45050	0.19			100.53
CCB	CCB	09/02/22 10:56:13 am	-0.00473	-64	4.55			N/A
08-268-03d	UNK	09/02/22 10:58:45 am	-0.00084	6	81.33			N/A
08-268-04d	UNK	09/02/22 11:01:17 am	0.00489	108	15.06			N/A
08-268-05d	UNK	09/02/22 11:03:50 am	0.00487	108	7.68			N/A
08-268-06d	UNK	09/02/22 11:06:22 am	0.00440	100	5.67			N/A
08-268-07d	UNK	09/02/22 11:08:55 am	0.00012	23	573.28			N/A
08-268-08d	UNK	09/02/22 11:11:27 am	-0.00193	-14	66.02			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
08-268-09d	UNK	09/02/22 11:13:59 am	0.00118	42	78.23			N/A
CCV	CCV	09/02/22 11:16:31 am	2.27640	40808	0.06			91.06
CCB	CCB	09/02/22 11:22:57 am	-0.00038	14	78.30			N/A
MB0902W1	UNK	09/02/22 11:25:28 am	0.00141	46	61.76			N/A
SB0902W1	UNK	09/02/22 11:28:00 am	2.23820	40124	0.15			N/A
08-268-02c	UNK	09/02/22 11:30:32 am	-0.00050	12	100.51			N/A
08-268-02cD	UNK	09/02/22 11:33:04 am	0.00018	24	369.22			N/A
08-268-02cL	UNK	09/02/22 11:35:37 am	-0.00258	-26	9.48			N/A
08-268-02cMS	UNK	09/02/22 11:38:09 am	2.23330	40036	0.13			N/A
08-268-02cMSD	UNK	09/02/22 11:40:42 am	2.20750	39574	0.11			N/A
08-268-02cPS	UNK	09/02/22 11:43:14 am	0.00251	66	10.14			N/A
08-268-01c	UNK	09/02/22 11:45:46 am	0.00193	55	30.08			N/A
08-268-03c	UNK	09/02/22 11:51:43 am	-0.00214	-18	33.83			N/A
CCV	CCV	09/02/22 11:54:15 am	2.28370	40940	0.06			91.35
CCB	CCB	09/02/22 11:56:47 am	-0.00709	-106	7.43			N/A
08-268-04c	UNK	09/02/22 11:59:18 am	0.00074	34	70.22			N/A
08-268-05c	UNK	09/02/22 12:01:50 pm	0.00199	56	28.42			N/A
08-268-06c	UNK	09/02/22 12:04:22 pm	0.00230	62	19.46			N/A
08-268-07c	UNK	09/02/22 12:06:55 pm	0.00066	32	91.03			N/A
08-268-08c	UNK	09/02/22 12:09:28 pm	0.00025	25	275.79			N/A
08-268-09c	UNK	09/02/22 12:12:00 pm	0.00228	62	20.39			N/A
08-268-01c	UNK	09/02/22 12:14:33 pm	0.00758	156	6.29			N/A
CCV	CCV	09/02/22 12:17:08 pm	2.29190	41086	0.05			91.68
CCB	CCB	09/02/22 12:20:03 pm	-0.00011	19	002.39			N/A
08-347-01c FF 26F1	UNK	09/02/22 01:20:40 pm	0.00235	63	54.25			N/A
08-347-02c	UNK	09/02/22 01:23:12 pm	0.00507	111	6.40			N/A
08-347-03c	UNK	09/02/22 01:25:44 pm	0.00653	138	6.76			N/A
08-347-04c	UNK	09/02/22 01:28:16 pm	0.00120	42	6.07			N/A
08-347-05c	UNK	09/02/22 01:30:48 pm	-0.00102	2	50.00			N/A
CCV	CCV	09/02/22 01:33:21 pm	2.29830	41201	0.10			91.93
CCB	CCB	09/02/22 01:35:52 pm	-0.00078	7	69.72			N/A

Dataset Report

9-5-22
KCM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220901B\
Report Date/Time: Monday, September 05, 2022 08:09:18

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	12:52:06 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.001	
	Sample	12:56:50 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.002	
	Sample	13:01:22 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.003	
	Sample	13:05:55 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.004	
	Blank	13:10:27 Thu 01-SB	Blank	C:\NexIONData_kmckinney\DataSet\X220901B\Blank.005	
	Standard 2	13:14:11 Thu 01-SS	Standard #2	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 2.006	
	Standard 3	13:17:54 Thu 01-SS	Standard #3	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 3.007	
	Standard 4	13:21:37 Thu 01-SS	Standard #4	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 4.008	
	Standard 5	13:25:20 Thu 01-SS	Standard #5	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 5.009	
	Standard 6	13:29:02 Thu 01-SS	Standard #6	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 6.010	
	Standard 7	13:32:45 Thu 01-SS	Standard #7	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 7.011	
	QC Std 1	13:37:17 Thu 01-SQC	Std #1	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 1.012	
	QC Std 2	13:41:50 Thu 01-SQC	Std #2	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 2.013	
	QC Std 6	13:45:33 Thu 01-SQC	Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.014	
	QC Std 7	13:50:05 Thu 01-SQC	Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.015	
	QC Std 8	13:54:38 Thu 01-SQC	Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.016	
	MB0829F1 2X	13:58:20 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\MB0829F1 2X.017	
	SB0829F1 2X	14:02:52 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\SB0829F1 2X.018	
	08-298-01c 2X	14:08:04 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01c 2X.019	
	08-298-02c 2X	14:12:35 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-02c 2X.020	
	08-268-02d 2X	14:17:06 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02d 2X.021	
	08-268-03d 2X	14:21:38 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03d 2X.022	
	08-268-04d 2X	14:26:10 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04d 2X.023	
	08-268-05d 2X	14:30:42 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05d 2X.024	
	08-268-06d 2X	14:35:15 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06d 2X.025	
	08-268-07d 2X	14:39:48 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-07d 2X.026	
	QC Std 6	14:44:21 Thu 01-SQC	Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.027	
	QC Std 7	14:48:53 Thu 01-SQC	Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.028	
	QC Std 8	14:53:26 Thu 01-SQC	Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.029	
	08-268-08d 2X	14:58:45 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-08d 2X.030	
	08-268-09d 2X	15:03:17 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-09d 2X.031	
	08-298-01cD 2X	15:07:49 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cD 2X.032	
	08-298-01cL 10X	15:12:21 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cL 10X.033	
	08-298-01cMS 2X	15:16:53 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMS 2X.034	
	08-298-01cMSD 2X	15:21:24 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMSD 2X.035	
	MB0901WM1 2X	15:25:55 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\MB0901WM1 2X.036	
	SB0901WM1 2X	15:30:26 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\SB0901WM1 2X.037	
	08-238-05c 2X	15:34:58 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05c 2X.038	
	08-238-05cD 2X	15:39:31 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cD 2X.039	
	QC Std 6	15:44:04 Thu 01-SQC	Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.040	
	QC Std 7	15:48:36 Thu 01-SQC	Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.041	
	QC Std 8	15:53:08 Thu 01-SQC	Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.042	
	08-238-05cL 10X	15:57:48 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cL 10X.043	
	08-238-05cMS 2X	16:02:20 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMS 2X.044	
	08-238-05cMSD 2X	16:06:53 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMSD 2X.045	
	08-238-05cPS 2X	16:11:25 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cPS 2X.046	
	08-268-01c 2X	16:15:59 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-01c 2X.047	
	08-268-02c 2X	16:20:31 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02c 2X.048	
	08-268-03c 2X	16:25:03 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03c 2X.049	
	08-268-04c 2X	16:29:34 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04c 2X.050	

08-268-05c 2X	16:34:06 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05c 2X.051
08-268-06c 2X	16:38:38 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06c 2X.052
QC Std 6	16:43:09 Thu 01-SQC Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.053
QC Std 7	16:47:41 Thu 01-SQC Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.054
QC Std 8	16:52:14 Thu 01-SQC Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.055
08-268-07c 2X	16:57:47 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-07c 2X.056
08-268-08c 2X	17:02:20 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-08c 2X.057
08-268-09c 2X	17:06:52 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-09c 2X.058
08-268-01d 2X FFD	17:11:24 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-01d 2X.FFD.059
08-268-02d 5X	17:30:26 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02d 5X.060
BL	17:54:41 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.061
BL	17:59:10 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.062
BL	18:03:56 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.063
BL	18:08:25 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.064

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, September 01, 2022 13:10:27

Report Date/Time: Monday, September 05, 2022 08:07:26

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Blank.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	404153.8	1.9				ug/L		Standard
|	Cr	52	9082.2	2.0				ug/L		Standard
|	Cr	53	586.0	6.1				ug/L		Standard
>	Ge	72	253733.4	2.0				ug/L		Standard
|	As	75	3852.6	3.2				ug/L		Standard
|	As-1	75	-67.4	70.6				ug/L		Standard
|	Se	77	107.0	2.8				ug/L		Standard
|	Se	78	4704.8	3.7				ug/L		Standard
|	Br	79	138.0	6.4				ug/L		Standard
|	Se	82	71.7	19.8				ug/L		Standard
|	Kr	83	62.7	15.5				ug/L		Standard
|	Y	89	532198.7	1.5				ug/L		Standard
|	Rh	103	467131.7	1.6				ug/L		Standard
|	Cd	111	298.2	5.6				ug/L		Standard
|	Cd	114	38.6	37.9				ug/L		Standard
>	In	115	453861.0	0.9				ug/L		Standard
>	Tb	159	578004.8	0.5				ug/L		Standard
|	Ho	165	598602.5	0.5				ug/L		Standard
|	Pb	208	606.7	2.4				ug/L		Standard
|	Bi	209	350941.7	1.2				ug/L		Standard
|	Th	232	438613.0	0.5				ug/L		Standard
|	Cr-1	52	181.7	1.4				ug/L		KED
|	Cr-1	53	21.7	9.6				ug/L		KED
>	Ge-1	72	9326.0	0.2				ug/L		KED
|	As-2	75	2.0	86.6				ug/L		KED
|	Y-1	89	16427.4	0.5				ug/L		KED
|	Rh-1	103	95998.8	0.7				ug/L		KED
|	Cd-1	111	2.0	86.6				ug/L		KED
|	Cd-1	114	4.8	19.7				ug/L		KED
>	In-1	115	10592.6	1.4				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Blank

Report Date/Time: Monday, September 05, 2022 08:07:26

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Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, September 01, 2022 13:14:11

Report Date/Time: Monday, September 05, 2022 08:07:28

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 2.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409246.6	2.0				ug/L	404154	Standard
|	Cr	52	14366.6	3.5	0.5000	0.023	4.6	ug/L	9082	Standard
|	Cr	53	1179.0	3.3	0.5000	0.023	4.6	ug/L	586	Standard
>	Ge	72	256553.5	3.3				ug/L	253733	Standard
|	As	75	4401.1	2.1	0.5000	0.121	24.1	ug/L	3853	Standard
|	As-1	75	586.1	7.5	0.5000	0.024	4.8	ug/L	-67	Standard
|	Se	77	147.7	10.8	0.5000	0.159	31.8	ug/L	107	Standard
|	Se	78	4758.1	1.2				ug/L	4705	Standard
|	Br	79	129.0	8.2				ug/L	138	Standard
|	Se	82	140.3	2.3	0.5000	0.029	5.8	ug/L	72	Standard
|	Kr	83	57.0	10.5				ug/L	63	Standard
|	Y	89	541424.1	2.4				ug/L	532199	Standard
|	Rh	103	471556.7	2.2				ug/L	467132	Standard
|	Cd	111	1966.7	1.0	0.5000	0.008	1.6	ug/L	298	Standard
|	Cd	114	4202.2	0.6	0.5000	0.007	1.3	ug/L	39	Standard
>	In	115	460096.8	0.7				ug/L	453861	Standard
>	Tb	159	589095.3	0.8				ug/L	578005	Standard
|	Ho	165	608987.0	1.1				ug/L	598603	Standard
|	Pb	208	22180.1	1.1	0.5000	0.001	0.3	ug/L	607	Standard
|	Bi	209	356756.5	0.7				ug/L	350942	Standard
|	Th	232	445949.1	1.2				ug/L	438613	Standard
|	Cr-1	52	629.7	1.1	0.5000	0.026	5.2	ug/L	182	KED
|	Cr-1	53	72.3	21.7	0.5000	0.165	33.1	ug/L	22	KED
>	Ge-1	72	9321.7	2.7				ug/L	9326	KED
|	As-2	75	31.0	20.1	0.5000	0.115	23.1	ug/L	2	KED
|	Y-1	89	16560.6	0.9				ug/L	16427	KED
|	Rh-1	103	96958.6	0.5				ug/L	95999	KED
|	Cd-1	111	100.7	7.7	0.5000	0.042	8.3	ug/L	2	KED
|	Cd-1	114	296.4	10.3	0.5000	0.050	10.0	ug/L	5	KED
>	In-1	115	10668.0	0.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 2

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, September 01, 2022 13:17:54

Report Date/Time: Monday, September 05, 2022 08:07:30

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 3.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	416594.7	1.9				ug/L	404154	Standard
|	Cr	52	32513.0	2.5	2.0108	0.018	0.9	ug/L	9082	Standard
|	Cr	53	3315.7	5.0	2.0143	0.083	4.1	ug/L	586	Standard
>	Ge	72	262056.8	2.6				ug/L	253733	Standard
|	As	75	6478.2	1.8	2.0202	0.041	2.0	ug/L	3853	Standard
|	As-1	75	2815.0	0.6	2.0088	0.057	2.9	ug/L	-67	Standard
|	Se	77	266.7	1.8	1.9966	0.028	1.4	ug/L	107	Standard
|	Se	78	5272.6	2.0	2.0000	0.167	8.4	ug/L	4705	Standard
|	Br	79	136.3	7.4				ug/L	138	Standard
|	Se	82	412.0	4.6	2.0214	0.173	8.5	ug/L	72	Standard
|	Kr	83	51.3	10.0				ug/L	63	Standard
|	Y	89	581268.8	1.7				ug/L	532199	Standard
|	Rh	103	486594.6	0.7				ug/L	467132	Standard
|	Cd	111	7428.4	0.3	2.0043	0.014	0.7	ug/L	298	Standard
|	Cd	114	17758.9	0.7	2.0038	0.019	1.0	ug/L	39	Standard
>	In	115	473729.2	0.4				ug/L	453861	Standard
>	Tb	159	608623.9	0.4				ug/L	578005	Standard
|	Ho	165	625984.3	0.7				ug/L	598603	Standard
|	Pb	208	93877.6	0.2	2.0052	0.006	0.3	ug/L	607	Standard
|	Bi	209	366034.9	0.9				ug/L	350942	Standard
|	Th	232	456621.3	1.0				ug/L	438613	Standard
|	Cr-1	52	2076.5	1.2	2.0044	0.022	1.1	ug/L	182	KED
|	Cr-1	53	252.7	4.9	2.0124	0.126	6.3	ug/L	22	KED
>	Ge-1	72	9467.5	1.0				ug/L	9326	KED
|	As-2	75	126.7	15.3	2.0063	0.318	15.9	ug/L	2	KED
|	Y-1	89	16562.3	1.1				ug/L	16427	KED
|	Rh-1	103	97727.8	0.4				ug/L	95999	KED
|	Cd-1	111	439.7	0.3	2.0104	0.022	1.1	ug/L	2	KED
|	Cd-1	114	1178.3	3.8	1.9995	0.076	3.8	ug/L	5	KED
>	In-1	115	10786.2	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 3

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Thursday, September 01, 2022 13:21:37

Report Date/Time: Monday, September 05, 2022 08:07:33

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 4.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	428752.7	2.8				ug/L	404154	Standard
	Cr	52	71571.9	3.0	5.0318	0.013	0.2	ug/L	9082	Standard
	Cr	53	7572.7	2.7	5.0028	0.069	1.4	ug/L	586	Standard
>	Ge	72	269211.9	2.0				ug/L	253733	Standard
	As	75	10967.9	1.4	5.0560	0.101	2.0	ug/L	3853	Standard
	As-1	75	7674.5	1.3	5.0347	0.088	1.8	ug/L	-67	Standard
	Se	77	608.0	4.6	5.1404	0.383	7.4	ug/L	107	Standard
	Se	78	6389.8	1.3	5.1710	0.337	6.5	ug/L	4705	Standard
	Br	79	167.0	5.5				ug/L	138	Standard
	Se	82	1020.0	2.2	5.0657	0.190	3.8	ug/L	72	Standard
	Kr	83	58.0	10.3				ug/L	63	Standard
	Y	89	576019.3	2.1				ug/L	532199	Standard
	Rh	103	492733.3	1.5				ug/L	467132	Standard
	Cd	111	18893.5	0.5	5.0177	0.022	0.4	ug/L	298	Standard
	Cd	114	46503.4	1.1	5.0208	0.050	1.0	ug/L	39	Standard
>	In	115	483630.6	0.4				ug/L	453861	Standard
>	Tb	159	620012.8	0.6				ug/L	578005	Standard
	Ho	165	639516.3	-0.6				ug/L	598603	Standard
	Pb	208	246327.6	-0.2	5.0263	0.021	0.4	ug/L	607	Standard
	Bi	209	373567.3	0.2				ug/L	350942	Standard
	Th	232	469786.1	0.7				ug/L	438613	Standard
	Cr-1	52	5066.2	1.3	5.0100	-0.085	1.7	ug/L	182	KED
	Cr-1	53	831.7	6.0	5.0296	0.288	5.7	ug/L	22	KED
>	Ge-1	72	9651.3	0.6				ug/L	9326	KED
	As-2	75	304.7	6.3	4.9663	0.316	6.4	ug/L	2	KED
	Y-1	89	17232.7	1.1				ug/L	16427	KED
	Rh-1	103	100391.2	0.6				ug/L	95999	KED
	Cd-1	111	1227.7	2.6	5.0716	0.180	3.6	ug/L	2	KED
	Cd-1	114	3103.1	2.5	5.0270	0.150	3.0	ug/L	5	KED
>	In-1	115	10967.2	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
	Cr	52		
	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 4

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Gd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Thursday, September 01, 2022 13:25:20

Report Date/Time: Monday, September 05, 2022 08:07:35

Method File: C:\NexlONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220901B\Standard 5.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	383682.6	1.8				ug/L	404154	Standard
[	Cr	52	209202.8	2.2	19.8670	0.263	1.3	ug/L	9082	Standard
[	Cr	53	23617.2	2.9	19.8939	0.583	2.9	ug/L	586	Standard
>	Ge	72	244787.1	1.7				ug/L	253733	Standard
[	As	75	27231.8	3.2	19.9283	0.370	1.9	ug/L	3853	Standard
[	As-1	75	25466.6	3.1	19.8698	0.284	1.4	ug/L	-67	Standard
[	Se	77	1829.8	1.8	19.9810	0.284	1.4	ug/L	107	Standard
[	Se	78	10088.6	2.5	20.1547	0.663	3.3	ug/L	4705	Standard
[	Br	79	147.7	7.8				ug/L	138	Standard
[	Se	82	3171.4	3.6	19.8744	0.706	3.6	ug/L	72	Standard
[	Kr	83	60.0	13.3				ug/L	63	Standard
[	Y	89	520469.6	2.0				ug/L	532199	Standard
[	Rh	103	450441.4	1.8				ug/L	467132	Standard
[	Cd	111	61497.0	1.3	19.8494	0.224	1.1	ug/L	298	Standard
[	Cd	114	153292.1	0.7	19.8520	0.200	1.0	ug/L	39	Standard
>	In	115	444326.3	1.2				ug/L	453861	Standard
>	Tb	159	573018.9	1.1				ug/L	578005	Standard
[	Ho	165	593255.2	1.2				ug/L	598603	Standard
[	Pb	208	809550.2	0.9	19.8420	0.050	0.3	ug/L	607	Standard
[	Bi	209	343525.4	0.8				ug/L	350942	Standard
[	Th	232	427878.7	1.1				ug/L	438613	Standard
[	Cr-1	52	16415.8	0.4	19.8656	0.515	2.6	ug/L	182	KED
[	Cr-1	53	2018.1	1.4	19.8486	0.479	2.4	ug/L	22	KED
>	Ge-1	72	8853.7	3.0				ug/L	9326	KED
[	As-2	75	1025.0	1.2	19.8753	0.558	2.8	ug/L	2	KED
[	Y-1	89	15338.6	0.9				ug/L	16427	KED
[	Rh-1	103	92696.4	0.6				ug/L	95999	KED
[	Cd-1	111	3930.2	0.9	19.8051	0.084	0.4	ug/L	2	KED
[	Cd-1	114	10451.5	0.7	19.8683	0.208	1.0	ug/L	5	KED
>	In-1	115	10198.6	0.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
[	Cr	52		
[	Cr	53		
>	Ge	72		
[As	75		
[As-1	75		
[Se	77		
[Se	78		
[Br	79		
[Se	82		
[Kr	83		
[Y	89		
[Rh	103		
[Cd	111		

Sample ID: Standard 5

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Thursday, September 01, 2022 13:29:02

Report Date/Time: Monday, September 05, 2022 08:07:36

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 6.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	385228.8	1.9				ug/L	404154	Standard
|	Cr	52	411082.5	2.4	39.9356	0.378	0.9	ug/L	9082	Standard
|	Cr	53	46802.6	2.5	39.9418	0.447	1.1	ug/L	586	Standard
>	Ge	72	246148.8	1.5				ug/L	253733	Standard
|	As	75	50264.1	2.3	39.8315	0.377	0.9	ug/L	3853	Standard
|	As-1	75	50584.1	1.7	39.8291	0.222	0.6	ug/L	-67	Standard
|	Se	77	3568.1	4.2	39.9700	1.189	3.0	ug/L	107	Standard
|	Se	78	15722.0	3.7	40.0601	1.272	3.2	ug/L	4705	Standard
|	Br	79	131.0	6.1				ug/L	138	Standard
|	Se	82	6337.7	1.7	39.9860	0.541	1.4	ug/L	72	Standard
|	Kr	83	67.0	15.7				ug/L	63	Standard
|	Y	89	517603.1	1.0				ug/L	532199	Standard
|	Rh	103	449319.7	1.2				ug/L	467132	Standard
|	Cd	111	123790.9	0.9	39.9971	0.801	2.0	ug/L	298	Standard
|	Cd	114	311034.3	0.6	40.0451	0.272	0.7	ug/L	39	Standard
>	In	115	445110.3	1.3				ug/L	453861	Standard
>	Tb	159	578443.7	1.4				ug/L	578005	Standard
>	Ho	165	596453.6	0.7				ug/L	598603	Standard
|	Pb	208	1647494.6	0.4	40.0043	0.505	1.3	ug/L	607	Standard
|	Bi	209	345748.3	0.5				ug/L	350942	Standard
|	Th	232	434192.7	0.6				ug/L	438613	Standard
>	Cr-1	52	32723.4	1.0	39.9108	0.583	1.5	ug/L	182	KED
|	Cr-1	53	3983.9	2.5	39.8177	0.637	1.6	ug/L	22	KED
>	Ge-1	72	8902.1	2.5				ug/L	9326	KED
|	As-2	75	2034.8	4.1	39.8412	1.488	3.7	ug/L	2	KED
|	Y-1	89	15508.1	0.6				ug/L	16427	KED
|	Rh-1	103	91209.9	0.7				ug/L	95990	KED
|	Cd-1	111	8019.3	1.2	40.3049	0.461	1.1	ug/L	2	KED
|	Cd-1	114	21004.0	1.3	40.2046	0.488	1.2	ug/L	5	KED
>	In-1	115	9937.4	0.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 6

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Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Thursday, September 01, 2022 13:32:45

Report Date/Time: Monday, September 05, 2022 08:07:38

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 7.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	400827.9	1.5				ug/L	404154	Standard
|	Cr	52	1092799.5	2.2	100.5533	1.696	1.7	ug/L	9082	Standard
|	Cr	53	124013.5	2.6	100.4061	1.088	1.1	ug/L	586	Standard
>	Ge	72	255151.3	1.2				ug/L	253733	Standard
|	As	75	130694.4	2.1	100.7702	1.559	1.5	ug/L	3853	Standard
|	As-1	75	137385.8	2.3	100.6966	1.967	2.0	ug/L	-67	Standard
|	Se	77	9448.5	1.6	100.6527	1.503	1.5	ug/L	107	Standard
|	Se	78	35213.0	1.4	100.9041	1.178	1.2	ug/L	4705	Standard
|	Br	79	153.3	8.8				ug/L	138	Standard
|	Se	82	16910.0	2.8	100.5940	3.098	3.1	ug/L	72	Standard
|	Kr	83	60.3	17.6				ug/L	63	Standard
|	Y	89	543159.7	0.5				ug/L	532199	Standard
|	Rh	103	468645.4	1.3				ug/L	467132	Standard
|	Cd	111	329556.8	0.5	100.4628	0.668	0.7	ug/L	298	Standard
|	Cd	114	834104.8	1.0	100.5820	0.754	0.8	ug/L	39	Standard
>	In	115	461627.7	1.1				ug/L	453861	Standard
>	Tb	159	604289.9	0.4				ug/L	578005	Standard
|	Ho	165	624533.7	0.5				ug/L	598603	Standard
|	Pb	208	4309391.2	0.5	100.0295	0.103	0.1	ug/L	607	Standard
|	Bi	209	359404.2	0.2				ug/L	350942	Standard
|	Th	232	452072.3	0.5				ug/L	438813	Standard
|	Cr-1	52	88377.5	0.4	100.7065	0.724	0.7	ug/L	182	KED
|	Cr-1	53	10795.7	0.6	100.7248	0.501	0.5	ug/L	22	KED
>	Ge-1	72	9224.6	0.6				ug/L	9326	KED
|	As-2	75	5479.7	1.4	100.5875	0.928	0.9	ug/L	2	KED
|	Y-1	89	16115.1	1.1				ug/L	16427	KED
|	Rh-1	103	95205.2	1.4				ug/L	95999	KED
|	Cd-1	111	21787.9	0.5	100.6981	1.084	1.1	ug/L	2	KED
|	Cd-1	114	55694.6	0.6	100.2547	1.759	1.8	ug/L	5	KED
>	In-1	115	10437.7	1.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 7

Report Date/Time: Monday, September 05, 2022 08:07:38

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, September 01, 2022 13:37:17

Report Date/Time: Monday, September 05, 2022 08:07:40

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 1.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	404403.5	2.2				ug/L	404154	Standard
|	Cr	52	564252.0	2.8	51.0475	0.406	0.8	ug/L	9082	Standard
|	Cr	53	64121.3	2.2	51.2308	0.104	0.2	ug/L	586	Standard
>	Ge	72	255123.7	2.3				ug/L	253733	Standard
|	As	75	70155.1	1.7	52.6815	0.723	1.4	ug/L	3853	Standard
|	As-1	75	71629.3	1.5	52.5379	0.609	1.2	ug/L	-67	Standard
|	Se	77	4946.9	2.0	52.1533	0.540	1.0	ug/L	107	Standard
|	Se	78	21016.1	2.1	53.9196	0.691	1.3	ug/L	4705	Standard
|	Br	79	179.3	6.9				ug/L	138	Standard
|	Se	82	8947.5	1.7	53.0301	0.358	0.7	ug/L	72	Standard
|	Kr	83	56.3	4.5				ug/L	63	Standard
|	Y	89	541907.9	2.9				ug/L	532199	Standard
|	Rh	103	475702.3	2.2				ug/L	467132	Standard
|	Cd	111	171887.4	0.4	52.8037	0.323	0.6	ug/L	298	Standard
|	Cd	114	435932.0	1.1	53.0181	0.787	1.5	ug/L	39	Standard
>	In	115	457687.5	0.3				ug/L	453861	Standard
>	Tb	159	606083.6	1.5				ug/L	578005	Standard
|	Ho	165	622039.2	0.3				ug/L	598603	Standard
|	Pb	208	2268776.4	0.3	52.5067	0.668	1.3	ug/L	607	Standard
|	Bi	209	357121.0	0.5				ug/L	350942	Standard
|	Th	232	451336.6	0.5				ug/L	438613	Standard
|	Cr-1	52	44656.7	1.0	50.6866	0.979	1.9	ug/L	182	KED
|	Cr-1	53	5500.4	1.7	51.1128	0.207	0.4	ug/L	22	KED
>	Ge-1	72	9244.0	1.7				ug/L	9326	KED
|	As-2	75	2849.3	0.6	52.1840	0.635	1.2	ug/L	2	KED
|	Y-1	89	16143.8	1.8				ug/L	16427	KED
|	Rh-1	103	94880.0	0.5				ug/L	95999	KED
|	Cd-1	111	11309.1	1.0	51.7093	0.351	0.7	ug/L	2	KED
|	Cd-1	114	29497.5	0.7	52.5289	0.426	0.8	ug/L	5	KED
>	In-1	115	10548.9	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.062
|	Cr	52	102.095	
|	Cr	53	102.462	
>	Ge	72		100.548
|	As	75	105.363	
|	As-1	75	105.076	
|	Se	77	104.307	
	Se	78	107.839	
	Br	79		
	Se	82	106.060	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	105.607	

Sample ID: QC Std 1

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Cd	114	106.036	
In-	115		100.843
Tb	159		104.858
Ho	165		
Pb	208	105.013	
Bi	209		
Th	232		
Cr-1	52	101.373	
Cr-1	53	102.226	
Ge-1	72		99.120
As-2	75	104.368	
Y-1	89		
Rh-1	103		
Cd-1	111	103.419	
Cd-1	114	105.058	
In-1	115		99.588

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, September 01, 2022 13:41:50

Report Date/Time: Monday, September 05, 2022 08:07:43

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 2.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	383566.2	1.2				ug/L	404154	Standard
	Cr	52	8393.1	3.4	-0.0221	0.018	80.8	ug/L	9082	Standard
	Cr	53	613.0	5.8	0.0481	0.024	50.1	ug/L	586	Standard
>	Ge	72	243941.5	2.7				ug/L	253733	Standard
	As	75	3783.9	1.3	0.0673	0.047	69.3	ug/L	3853	Standard
	As-1	75	-33.8	109.5	0.0243	0.027	112.8	ug/L	-67	Standard
	Se	77	114.0	5.5	0.1260	0.079	62.5	ug/L	107	Standard
	Se	78	4581.7	2.5	0.2034	0.072	35.6	ug/L	4705	Standard
	Br	79	113.7	13.7				ug/L	138	Standard
	Se	82	69.7	7.9	0.0044	0.022	511.0	ug/L	72	Standard
	Kr	83	55.3	11.8				ug/L	63	Standard
	Y	89	517729.6	1.7				ug/L	532199	Standard
	Rh	103	453616.2	1.6				ug/L	467132	Standard
	Cd	111	332.5	4.0	0.0142	0.005	33.9	ug/L	298	Standard
	Cd	114	73.3	10.1	0.0046	0.001	20.2	ug/L	39	Standard
>	In	115	438839.9	0.6				ug/L	453861	Standard
>	Tb	159	573604.0	0.5				ug/L	578005	Standard
	Ho	165	592940.1	0.2				ug/L	598603	Standard
	Pb	208	889.0	4.2	0.0070	0.001	12.4	ug/L	607	Standard
	Bi	209	343022.1	0.5				ug/L	350942	Standard
	Th	232	422393.3	0.4				ug/L	438613	Standard
	Cr-1	52	179.0	6.6	0.0106	0.011	103.1	ug/L	182	KED
	Cr-1	53	26.0	23.1	0.0559	0.056	99.4	ug/L	22	KED
>	Ge-1	72	8733.3	1.7				ug/L	9326	KED
	As-2	75	2.0	50.0	0.0023	0.019	825.2	ug/L	2	KED
	Y-1	89	15288.8	1.0				ug/L	16427	KED
	Rh-1	103	90426.6	1.0				ug/L	95999	KED
	Cd-1	111	5.0	52.9	0.0149	0.013	84.9	ug/L	2	KED
	Cd-1	114	5.1	12.4	0.0011	0.001	104.9	ug/L	5	KED
>	In-1	115	10057.0	0.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.906
	Cr	52		
	Cr	53		
>	Ge	72		96.141
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 2

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Cd	114	
In	115	96.690
Tb	159	99.239
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.645
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	94.944

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 13:45:33

Report Date/Time: Monday, September 05, 2022 08:07:45

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	383309.2	1.6				ug/L	404154	Standard
|	Cr	52	409080.2	1.4	38.8561	0.541	1.4	ug/L	9082	Standard
|	Cr	53	46253.1	2.3	38.8744	0.529	1.4	ug/L	586	Standard
>	Ge	72	243005.8	2.4				ug/L	253733	Standard
|	As	75	50897.5	1.5	39.3926	0.386	1.0	ug/L	3853	Standard
|	As-1	75	51258.7	1.4	39.4844	0.411	1.0	ug/L	-67	Standard
|	Se	77	3562.8	1.5	39.1599	0.907	2.3	ug/L	107	Standard
|	Se	78	15737.0	3.1	39.0299	0.479	1.2	ug/L	4705	Standard
|	Br	79	154.3	7.7				ug/L	138	Standard
|	Se	82	6362.4	2.6	39.4755	0.281	0.7	ug/L	72	Standard
|	Kr	83	52.0	11.7				ug/L	63	Standard
|	Y	89	511053.9	2.5				ug/L	532199	Standard
|	Rh	103	447397.5	2.0				ug/L	467132	Standard
|	Cd	111	121187.8	1.2	38.8468	0.248	0.6	ug/L	298	Standard
|	Cd	114	306190.3	0.9	38.8799	0.133	0.3	ug/L	39	Standard
>	In	115	438336.4	0.7				ug/L	453861	Standard
>	Tb	159	569774.5	0.8				ug/L	578005	Standard
|	Ho	165	592285.7	0.6				ug/L	598603	Standard
|	Pb	208	1623311.2	0.8	39.9542	0.021	0.1	ug/L	607	Standard
|	Bi	209	343489.1	0.1				ug/L	350942	Standard
|	Th	232	427672.9	0.3				ug/L	438613	Standard
|	Cr-1	52	32450.1	0.4	39.1492	0.747	1.9	ug/L	182	KED
|	Cr-1	53	3879.2	2.4	38.3066	0.185	0.5	ug/L	22	KED
>	Ge-1	72	8687.0	2.0				ug/L	9326	KED
|	As-2	75	1995.1	4.0	38.8814	1.827	4.7	ug/L	2	KED
|	Y-1	89	15344.6	0.3				ug/L	16427	KED
|	Rh-1	103	90182.1	0.5				ug/L	95999	KED
|	Cd-1	111	7991.9	1.1	38.9141	0.335	0.9	ug/L	2	KED
|	Cd-1	114	20608.1	1.7	39.0816	0.705	1.8	ug/L	5	KED
>	In-1	115	9904.5	0.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.842
|	Cr	52	97.140	
|	Cr	53	97.186	
>	Ge	72		95.772
|	As	75	98.482	
	As-1	75	98.711	
	Se	77	97.900	
	Se	78	97.575	
	Br	79		
	Se	82	98.689	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	97.117	

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Cd	114	97.200	
In	115		96.579
Tb	159		98.576
Ho	165		
Pb	208	99.885	
Bi	209		
Th	232		
Cr-1	52	97.873	
Cr-1	53	95.767	
Ge-1	72		93.147
As-2	75	97.203	
Y-1	89		
Rh-1	103		
Cd-1	111	97.285	
Cd-1	114	97.704	
In-1	115		93.505

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 13:50:05

Report Date/Time: Monday, September 05, 2022 08:07:48

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	376920.5	2.4				ug/L	404154	Standard
|	Cr	52	202322.6	2.6	19.1256	0.113	0.6	ug/L	9082	Standard
|	Cr	53	22907.0	2.7	19.3442	0.130	0.7	ug/L	586	Standard
>	Ge	72	240514.1	2.8				ug/L	253733	Standard
|	As	75	26670.6	2.8	19.4042	0.022	0.1	ug/L	3853	Standard
|	As-1	75	24773.3	3.2	19.3011	0.089	0.5	ug/L	-67	Standard
|	Se	77	1791.1	5.0	19.3064	0.479	2.5	ug/L	107	Standard
|	Se	78	10025.2	2.2	19.5488	0.332	1.7	ug/L	4705	Standard
|	Br	79	134.0	12.5				ug/L	138	Standard
|	Se	82	3086.3	3.7	19.1252	0.215	1.1	ug/L	72	Standard
|	Kr	83	58.3	2.0				ug/L	63	Standard
|	Y	89	501433.2	2.2				ug/L	532199	Standard
|	Rh	103	440308.3	2.2				ug/L	467132	Standard
|	Cd	111	59982.5	1.1	19.4986	0.215	1.1	ug/L	298	Standard
|	Cd	114	149570.2	0.8	19.3037	0.229	1.2	ug/L	39	Standard
>	In	115	431243.5	1.0				ug/L	453861	Standard
>	Tb	159	564912.0	0.5				ug/L	578005	Standard
|	Ho	165	583341.9	0.8				ug/L	598603	Standard
|	Pb	208	792637.6	0.6	19.6699	0.171	0.9	ug/L	607	Standard
|	Bi	209	337250.4	1.2				ug/L	350942	Standard
|	Th	232	417660.8	0.4				ug/L	438613	Standard
|	Cr-1	52	15746.0	0.7	19.1509	0.371	1.9	ug/L	182	KED
|	Cr-1	53	1937.8	1.3	19.3040	0.494	2.6	ug/L	22	KED
>	Ge-1	72	8569.9	1.6				ug/L	9326	KED
|	As-2	75	962.7	4.1	18.9921	0.671	3.5	ug/L	2	KED
|	Y-1	89	14992.2	1.3				ug/L	16427	KED
|	Rh-1	103	88674.4	0.9				ug/L	95999	KED
|	Cd-1	111	3944.5	0.9	19.3127	0.152	0.8	ug/L	2	KED
|	Cd-1	114	10069.0	0.2	19.2004	0.136	0.7	ug/L	5	KED
>	In-1	115	9848.2	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.262
|	Cr	52	95.628	
|	Cr	53	96.721	
>	Ge	72		94.790
|	As	75	97.021	
|	As-1	75	96.505	
	Se	77	96.532	
	Se	78	97.744	
	Br	79		
	Se	82	95.626	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	97.493	

Sample ID: QC Std 7

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Cd	114	96.519	
In	115		95.017
Tb	159		97.735
Ho	165		
Pb	208	98.349	
Bi	209		
Th	232		
Cr-1	52	95.755	
Cr-1	53	96.520	
Ge-1	72		91.892
As-2	75	94.960	
Y-1	89		
Rh-1	103		
Cd-1	111	96.564	
Cd-1	114	96.002	
In-1	115		92.972

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 13:54:38

Report Date/Time: Monday, September 05, 2022 08:07:50

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	378111.0	1.2				ug/L	404154	Standard
|	Cr	52	8293.4	2.9	-0.0200	0.021	102.9	ug/L	9082	Standard
|	Cr	53	572.7	3.6	0.0210	0.012	55.7	ug/L	586	Standard
>	Ge	72	242813.7	2.5				ug/L	253733	Standard
|	As	75	3673.5	1.3	-0.0105	0.035	328.3	ug/L	3853	Standard
|	As-1	75	-93.6	31.2	-0.0222	0.021	94.7	ug/L	-67	Standard
|	Se	77	91.3	18.6	-0.1258	0.188	149.7	ug/L	107	Standard
|	Se	78	4514.0	1.9	0.0426	0.126	296.6	ug/L	4705	Standard
|	Br	79	132.3	10.7				ug/L	138	Standard
|	Se	82	66.0	1.5	-0.0160	0.016	99.1	ug/L	72	Standard
|	Kr	83	56.0	15.3				ug/L	63	Standard
|	Y	89	509743.4	1.8				ug/L	532199	Standard
|	Rh	103	440934.0	1.2				ug/L	467132	Standard
|	Cd	111	313.0	5.8	0.0083	0.005	65.1	ug/L	298	Standard
|	Cd	114	44.1	42.2	0.0009	0.002	268.2	ug/L	39	Standard
>	In	115	437146.2	0.6				ug/L	453861	Standard
>	Tb	159	571448.7	0.3				ug/L	578005	Standard
|	Ho	165	589663.6	0.3				ug/L	598603	Standard
|	Pb	208	703.0	7.3	0.0025	0.001	47.8	ug/L	607	Standard
|	Bi	209	340818.0	0.5				ug/L	350942	Standard
|	Th	232	423945.6	0.3				ug/L	438613	Standard
|	Cr-1	52	166.0	7.8	-0.0075	0.017	220.4	ug/L	182	KED
|	Cr-1	53	21.0	8.2	0.0044	0.018	415.1	ug/L	22	KED
>	Ge-1	72	8849.1	1.1				ug/L	9326	KED
|	As-2	75	2.0	0.0	0.0020	0.000	21.7	ug/L	2	KED
|	Y-1	89	15438.0	0.7				ug/L	16427	KED
|	Rh-1	103	91007.6	0.5				ug/L	95999	KED
|	Cd-1	111	1.7	34.6	-0.0012	0.003	227.7	ug/L	2	KED
|	Cd-1	114	6.8	41.4	0.0040	0.005	128.7	ug/L	5	KED
>	In-1	115	10162.6	0.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.556
|	Cr	52		
|	Cr	53		
>	Ge	72		95.696
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, September 05, 2022 08:07:50

Cd	114	
In	115	96.317
Tb	159	98.866
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.886
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	95.941

Quantitative Analysis - Summary Report

Sample ID: MB0829F1 2X

Sample Date/Time: Thursday, September 01, 2022 13:58:20

Report Date/Time: Monday, September 05, 2022 08:07:53

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\MB0829F1 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	396346.2	1.6				ug/L	404154	Standard
|	Cr	52	7612.7	6.2	-0.1216	0.037	30.7	ug/L	9082	Standard
|	Cr	53	479.0	6.8	-0.0789	0.021	27.0	ug/L	586	Standard
>	Ge	72	250047.1	1.8				ug/L	253733	Standard
|	As	75	3672.1	2.5	-0.1012	0.025	24.8	ug/L	3853	Standard
|	As-1	75	-101.1	14.4	-0.0260	0.011	44.1	ug/L	-67	Standard
|	Se	77	98.0	10.0	-0.0823	0.099	120.4	ug/L	107	Standard
|	Se	78	4505.0	2.3	-0.4446	0.092	20.7	ug/L	4705	Standard
|	Br	79	131.0	8.0				ug/L	138	Standard
|	Se	82	59.7	14.1	-0.0669	0.050	75.0	ug/L	72	Standard
|	Kr	83	48.3	13.3				ug/L	63	Standard
|	Y	89	532333.2	1.3				ug/L	532199	Standard
|	Rh	103	459717.8	1.7				ug/L	467132	Standard
|	Cd	111	465.0	3.9	0.0526	0.005	9.6	ug/L	298	Standard
|	Cd	114	392.9	2.2	0.0438	0.001	2.4	ug/L	39	Standard
>	In	115	451081.9	0.5				ug/L	453861	Standard
>	Tb	159	588317.8	0.4				ug/L	578005	Standard
|	Ho	165	607561.9	1.1				ug/L	598603	Standard
|	Pb	208	490.3	3.7	-0.0030	0.000	15.2	ug/L	607	Standard
|	Bi	209	349181.0	0.4				ug/L	350942	Standard
|	Th	232	439738.6	0.7				ug/L	438613	Standard
|	Cr-1	52	99.0	8.6	-0.0915	0.008	9.3	ug/L	182	KED
|	Cr-1	53	10.3	11.2	-0.1032	0.010	9.8	ug/L	22	KED
>	Ge-1	72	9171.6	1.6				ug/L	9326	KED
|	As-2	75	2.7	57.3	0.0129	0.028	220.0	ug/L	2	KED
|	Y-1	89	16064.7	1.7				ug/L	16427	KED
|	Rh-1	103	93153.7	0.6				ug/L	95999	KED
|	Cd-1	111	12.0	41.7	0.0465	0.023	48.6	ug/L	2	KED
|	Cd-1	114	29.0	9.8	0.0439	0.005	11.0	ug/L	5	KED
>	In-1	115	10382.1	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.068
|	Cr	52		
|	Cr	53		
>	Ge	72		98.547
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: MB0829F1 2X

Report Date/Time: Monday, September 05, 2022 08:07:53

Cd	114	
In	115	99.388
Tb	159	101.784
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.344
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.014

Quantitative Analysis - Summary Report

Sample ID: SB0829F1 2X

Sample Date/Time: Thursday, September 01, 2022 14:02:52

Report Date/Time: Monday, September 05, 2022 08:07:55

Method File: C:\NexIONData_kmckinney\MethodX220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSetX220901B\SB0829F1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	404260.2	1.4				ug/L	404154	Standard
|	Cr	52	439987.0	2.1	39.6366	0.272	0.7	ug/L	9082	Standard
|	Cr	53	50209.1	3.0	40.0210	0.660	1.6	ug/L	586	Standard
[>	Ge	72	255425.1	2.4				ug/L	253733	Standard
|	As	75	53632.9	2.8	39.4905	0.183	0.5	ug/L	3853	Standard
|	As-1	75	53916.8	2.6	39.5050	0.109	0.3	ug/L	-67	Standard
|	Se	77	3804.2	2.4	39.7874	0.252	0.6	ug/L	107	Standard
|	Se	78	16523.9	2.8	38.9748	0.230	0.6	ug/L	4705	Standard
|	Br	79	144.0	13.9				ug/L	138	Standard
|	Se	82	6637.2	2.5	39.1783	0.626	1.6	ug/L	72	Standard
|	Kr	83	56.0	10.9				ug/L	63	Standard
|	Y	89	542126.5	2.0				ug/L	532199	Standard
|	Rh	103	466911.9	2.0				ug/L	467132	Standard
|	Cd	111	128486.1	1.2	39.5890	0.263	0.7	ug/L	298	Standard
|	Cd	114	322653.7	0.8	39.3807	0.292	0.7	ug/L	39	Standard
[>	In	115	456039.8	0.5				ug/L	453861	Standard
[>	Tb	159	594206.9	1.2				ug/L	578005	Standard
|	Ho	165	616520.9	0.4				ug/L	598603	Standard
|	Pb	208	1716535.7	0.8	40.5129	0.163	0.4	ug/L	607	Standard
|	Bi	209	351689.6	1.0				ug/L	350942	Standard
|	Th	232	444451.6	0.3				ug/L	438613	Standard
|	Cr-1	52	34379.3	0.5	39.3497	0.267	0.7	ug/L	182	KED
|	Cr-1	53	4248.0	1.2	39.8152	0.395	1.0	ug/L	22	KED
[>	Ge-1	72	9154.6	0.2				ug/L	9326	KED
|	As-2	75	2132.5	4.7	39.4221	1.798	4.6	ug/L	2	KED
|	Y-1	89	16272.6	1.2				ug/L	16427	KED
|	Rh-1	103	94058.6	0.6				ug/L	95999	KED
|	Cd-1	111	8631.6	0.3	39.3010	0.381	1.0	ug/L	2	KED
|	Cd-1	114	22010.9	1.7	39.0274	0.363	0.9	ug/L	5	KED
[>	In-1	115	10592.8	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		100.026
|	Cr	52		
|	Cr	53		
[>	Ge	72		100.667
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: SB0829F1 2X

Report Date/Time: Monday, September 05, 2022 08:07:55

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Cd	114	
In	115	100.480
Tb	159	102.803
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.162
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	100.002

Quantitative Analysis - Summary Report

Sample ID: 08-298-01c 2X

Sample Date/Time: Thursday, September 01, 2022 14:08:04

Report Date/Time: Monday, September 05, 2022 08:07:57

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01c 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	467558.8	2.3				ug/L	404154	Standard
|	Cr	52	14359.9	3.7	0.3062	0.017	5.7	ug/L	9082	Standard
|	Cr	53	2518.2	2.4	1.2835	0.018	1.4	ug/L	586	Standard
[>	Ge	72	255192.5	2.6				ug/L	253733	Standard
|	As	75	3967.8	4.8	0.0728	0.071	97.8	ug/L	3853	Standard
|	As-1	75	261.2	28.6	0.2402	0.050	20.8	ug/L	-67	Standard
|	Se	77	187.0	5.4	0.8565	0.132	15.4	ug/L	107	Standard
|	Se	78	4537.4	3.3	-0.6455	0.116	17.9	ug/L	4705	Standard
|	Br	79	5540.7	2.7				ug/L	138	Standard
|	Se	82	102.7	12.4	0.1829	0.077	42.2	ug/L	72	Standard
|	Kr	83	67.3	7.3				ug/L	63	Standard
|	Y	89	539078.8	2.4				ug/L	532199	Standard
|	Rh	103	449079.9	0.8				ug/L	467132	Standard
|	Cd	111	327.3	3.4	0.0107	0.003	32.3	ug/L	298	Standard
|	Cd	114	121.4	10.2	0.0104	0.001	14.1	ug/L	39	Standard
[>	In	115	446382.2	0.5				ug/L	453861	Standard
[>	Tb	159	591113.8	0.5				ug/L	578005	Standard
|	Ho	165	613754.0	0.1				ug/L	598603	Standard
|	Pb	208	906.0	3.1	0.0068	0.001	8.2	ug/L	607	Standard
|	Bi	209	340031.6	0.6				ug/L	350942	Standard
|	Th	232	440276.6	0.3				ug/L	438613	Standard
|	Cr-1	52	238.3	5.0	0.0706	0.015	20.7	ug/L	182	KED
|	Cr-1	53	29.7	30.6	0.0805	0.085	105.2	ug/L	22	KED
[>	Ge-1	72	9102.6	0.4				ug/L	9326	KED
|	As-2	75	15.0	20.0	0.2427	0.055	22.5	ug/L	2	KED
|	Y-1	89	15971.3	1.3				ug/L	16427	KED
|	Rh-1	103	91454.2	1.2				ug/L	95999	KED
|	Cd-1	111	5.0	0.0	0.0142	0.000	1.8	ug/L	2	KED
|	Cd-1	114	8.5	12.0	0.0069	0.002	24.9	ug/L	5	KED
[>	In-1	115	10365.7	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		115.688
|	Cr	52		
|	Cr	53		
[>	Ge	72		100.575
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-298-01c 2X

Report Date/Time: Monday, September 05, 2022 08:07:57

Cd	114	
In	115	98.352
Tb	159	102.268
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.604
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.859

Quantitative Analysis - Summary Report

Sample ID: 08-298-02c 2X

Sample Date/Time: Thursday, September 01, 2022 14:12:35

Report Date/Time: Monday, September 05, 2022 08:07:59

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-02c 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	476271.3	1.3				ug/L	404154	Standard
|	Cr	52	19792.0	2.2	0.7096	0.014	2.0	ug/L	9082	Standard
|	Cr	53	2598.2	2.3	1.3060	0.025	1.9	ug/L	586	Standard
>	Ge	72	260853.9	2.8				ug/L	253733	Standard
|	As	75	4110.7	2.4	0.1168	0.012	10.2	ug/L	3853	Standard
|	As-1	75	289.1	24.6	0.2569	0.052	20.4	ug/L	-67	Standard
|	Se	77	146.3	4.6	0.3824	0.028	7.3	ug/L	107	Standard
|	Se	78	4664.1	2.4	-0.5573	0.211	37.9	ug/L	4705	Standard
|	Br	79	6504.5	3.1				ug/L	138	Standard
|	Se	82	100.3	12.7	0.1569	0.086	54.6	ug/L	72	Standard
|	Kr	83	58.3	4.3				ug/L	63	Standard
|	Y	89	544830.1	1.5				ug/L	532199	Standard
|	Rh	103	459255.7	1.7				ug/L	467132	Standard
|	Cd	111	293.9	6.6	-0.0018	0.006	333.5	ug/L	298	Standard
|	Cd	114	70.3	17.9	0.0039	0.002	40.3	ug/L	39	Standard
>	In	115	456033.2	0.2				ug/L	453861	Standard
>	Tb	159	610402.0	1.2				ug/L	578005	Standard
|	Ho	165	623991.0	0.5				ug/L	598603	Standard
|	Pb	208	756.7	2.8	0.0027	0.000	12.6	ug/L	607	Standard
|	Bi	209	348434.1	0.4				ug/L	350942	Standard
|	Th	232	447853.2	0.6				ug/L	438613	Standard
|	Cr-1	52	721.4	2.3	0.6269	0.017	2.7	ug/L	182	KED
|	Cr-1	53	81.3	16.0	0.5678	0.123	21.7	ug/L	22	KED
>	Ge-1	72	9130.6	0.6				ug/L	9326	KED
|	As-2	75	15.3	15.1	0.2482	0.043	17.5	ug/L	2	KED
|	Y-1	89	16097.1	1.5				ug/L	16427	KED
|	Rh-1	103	93080.6	0.5				ug/L	95999	KED
|	Cd-1	111	2.7	57.3	0.0031	0.007	228.3	ug/L	2	KED
|	Cd-1	114	7.8	35.0	0.0053	0.005	88.0	ug/L	5	KED
>	In-1	115	10579.0	1.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		117.844
|	Cr	52		
|	Cr	53		
>	Ge	72		102.806
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-298-02c 2X

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Cd	114	
In	115	100.479
Tb	159	105.605
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.904
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.872

Quantitative Analysis - Summary Report

Sample ID: 08-268-02d 2X

Sample Date/Time: Thursday, September 01, 2022 14:17:06

Report Date/Time: Monday, September 05, 2022 08:08:01

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02d 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	470465.7	2.6				ug/L	404154	Standard
|	Cr	52	62058.2	2.2	4.0701	0.033	0.8	ug/L	9082	Standard
|	Cr	53	6088.6	7.5	3.7438	0.204	5.4	ug/L	586	Standard
>	Ge	72	238498.2	2.6				ug/L	253733	Standard
|	As	75	9084.5	3.8	4.6429	0.124	2.7	ug/L	3853	Standard
|	As-1	75	5977.4	4.9	4.7326	0.115	2.4	ug/L	-67	Standard
|	Se	77	603.0	5.3	5.7885	0.192	3.3	ug/L	107	Standard
|	Se	78	5026.2	2.8	2.1383	0.165	7.7	ug/L	4705	Standard
|	Br	79	137085.2	2.5				ug/L	138	Standard
|	Se	82	567.7	6.4	3.1951	0.140	4.4	ug/L	72	Standard
|	Kr	83	72.7	21.8				ug/L	63	Standard
|	Y	89	504531.3	1.5				ug/L	532199	Standard
|	Rh	103	412781.6	1.5				ug/L	467132	Standard
|	Cd	111	318.9	4.5	0.0161	0.004	26.2	ug/L	298	Standard
|	Cd	114	10.0	96.1	-0.0034	0.001	38.2	ug/L	39	Standard
>	In	115	413471.4	1.5				ug/L	453861	Standard
>	Tb	159	564009.4	1.1				ug/L	578005	Standard
|	Ho	165	574306.0	1.1				ug/L	598603	Standard
|	Pb	208	1536.7	8.0	0.0235	0.003	12.6	ug/L	607	Standard
|	Bi	209	302675.7	1.0				ug/L	350942	Standard
|	Th	232	414426.5	0.8				ug/L	438613	Standard
|	Cr-1	52	801.7	4.8	0.7616	0.058	7.7	ug/L	182	KED
|	Cr-1	53	117.3	6.0	0.9571	0.053	5.6	ug/L	22	KED
>	Ge-1	72	8739.0	1.9				ug/L	9326	KED
|	As-2	75	208.0	2.9	3.9976	0.181	4.5	ug/L	2	KED
|	Y-1	89	15768.4	0.1				ug/L	16427	KED
|	Rh-1	103	84912.3	1.8				ug/L	95999	KED
|	Cd-1	111	1.0	100.0	-0.0042	0.005	119.0	ug/L	2	KED
|	Cd-1	114	3.1	62.5	-0.0027	0.004	136.0	ug/L	5	KED
>	In-1	115	9827.5	1.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		116.408
|	Cr	52		
|	Cr	53		
>	Ge	72		93.996
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-02d 2X

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Cd	114	
In	115	91.101
Tb	159	97.579
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.705
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	92.777

Quantitative Analysis - Summary Report

Sample ID: 08-268-03d 2X

Sample Date/Time: Thursday, September 01, 2022 14:21:38

Report Date/Time: Monday, September 05, 2022 08:08:03

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03d 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	450126.9	2.6				ug/L	404154	Standard
	Cr	52	34334.9	2.7	2.0009	0.016	0.8	ug/L	9082	Standard
	Cr	53	3076.7	4.1	1.7555	0.038	2.2	ug/L	586	Standard
>	Ge	72	246236.0	2.2				ug/L	253733	Standard
	As	75	7757.4	2.2	3.3092	0.069	2.1	ug/L	3853	Standard
	As-1	75	3992.2	2.2	3.0804	0.042	1.4	ug/L	-67	Standard
	Se	77	180.3	8.2	0.8524	0.124	14.5	ug/L	107	Standard
	Se	78	4732.8	2.1	0.5736	0.123	21.4	ug/L	4705	Standard
	Br	79	16496.5	3.8				ug/L	138	Standard
	Se	82	153.0		0.5169	0.021	4.2	ug/L	72	Standard
	Kr	83	59.7	14.4				ug/L	63	Standard
	Y	89	525552.1	1.9				ug/L	532199	Standard
	Rh	103	434725.7	1.5				ug/L	467132	Standard
	Cd	111	311.4	5.4	0.0095	0.007	69.3	ug/L	298	Standard
	Cd	114	51.5	41.6	0.0019	0.003	143.1	ug/L	39	Standard
>	In	115	430050.9	1.1				ug/L	453861	Standard
>	Tb	159	574389.4	0.9				ug/L	578005	Standard
	Ho	165	593469.3	1.3				ug/L	598603	Standard
	Pb	208	5504.4	1.9	0.1197	0.004	3.0	ug/L	607	Standard
	Bi	209	320700.4	0.4				ug/L	350942	Standard
	Th	232	423107.1	0.6				ug/L	438613	Standard
	Cr-1	52	653.3	6.8	0.5696	0.058	10.2	ug/L	182	KED
	Cr-1	53	72.7	4.2	0.5051	0.035	6.9	ug/L	22	KED
>	Ge-1	72	8885.4	1.5				ug/L	9326	KED
	As-2	75	167.0	7.3	3.1457	0.183	5.8	ug/L	2	KED
	Y-1	89	16035.3	1.4				ug/L	16427	KED
	Rh-1	103	89235.5	0.3				ug/L	95999	KED
	Cd-1	111	4.3	13.3	0.0113	0.003	25.2	ug/L	2	KED
	Cd-1	114	1.5	96.3	-0.0057	0.003	48.1	ug/L	5	KED
>	In-1	115	10267.1	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.375
	Cr	52		
	Cr	53		
>	Ge	72		97.045
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-03d 2X

Report Date/Time: Monday, September 05, 2022 08:08:03

Cd	114	
In	115	94.754
Tb	159	99.375
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	95.275
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	96.927

Quantitative Analysis - Summary Report

Sample ID: 08-268-04d 2X

Sample Date/Time: Thursday, September 01, 2022 14:26:10

Report Date/Time: Monday, September 05, 2022 08:08:05

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04d 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	434806.4	3.3				ug/L	404154	Standard
|	Cr	52	33975.7	1.6	2.0716	0.071	3.4	ug/L	9082	Standard
|	Cr	53	6271.7	1.2	4.2339	0.153	3.6	ug/L	586	Standard
>	Ge	72	243974.6	2.1				ug/L	253733	Standard
|	As	75	4870.2	3.2	0.9684	0.065	6.7	ug/L	3853	Standard
|	As-1	75	1450.8	4.3	1.1608	0.025	2.2	ug/L	-67	Standard
|	Se	77	312.7	6.6	2.3635	0.204	8.6	ug/L	107	Standard
|	Se	78	4660.4	2.0	0.4734	0.128	26.9	ug/L	4705	Standard
|	Br	79	53046.3	2.2				ug/L	138	Standard
|	Se	82	281.7	5.1	1.3297	0.096	7.2	ug/L	72	Standard
|	Kr	83	55.7	14.4				ug/L	63	Standard
|	Y	89	519308.9	2.8				ug/L	532199	Standard
|	Rh	103	426295.2	1.5				ug/L	467132	Standard
|	Cd	111	303.9	1.8	0.0079	0.002	26.6	ug/L	298	Standard
|	Cd	114	64.0	17.1	0.0036	0.001	39.6	ug/L	39	Standard
>	In	115	425980.5	0.6				ug/L	453861	Standard
>	Tb	159	566834.2	0.3				ug/L	578005	Standard
|	Ho	165	583912.2	0.4				ug/L	598603	Standard
|	Pb	208	1760.0	2.8	0.0288	0.001	4.5	ug/L	607	Standard
|	Bi	209	317438.5	0.4				ug/L	350942	Standard
|	Th	232	424849.1	1.2				ug/L	438613	Standard
|	Cr-1	52	745.7	2.5	0.6983	0.041	5.9	ug/L	182	KED
|	Cr-1	53	97.0	7.2	0.7621	0.082	10.8	ug/L	22	KED
>	Ge-1	72	8698.6	2.3				ug/L	9326	KED
|	As-2	75	41.7	5.0	0.7759	0.059	7.6	ug/L	2	KED
|	Y-1	89	15887.2	0.4				ug/L	16427	KED
|	Rh-1	103	88548.3	0.5				ug/L	95999	KED
|	Cd-1	111	2.7	43.3	0.0039	0.006	142.9	ug/L	2	KED
|	Cd-1	114	7.4	49.9	0.0055	0.007	127.2	ug/L	5	KED
>	In-1	115	9894.3	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.584
|	Cr	52		
|	Cr	53		
>	Ge	72		96.154
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-04d 2X

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Cd	114	
In	115	93.857
Tb	159	98.067
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.273
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	93.408

Quantitative Analysis - Summary Report

Sample ID: 08-268-05d 2X

Sample Date/Time: Thursday, September 01, 2022 14:30:42

Report Date/Time: Monday, September 05, 2022 08:08:07

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05d 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	468319.8	2.0				ug/L	404154	Standard
|	Cr	52	42788.0	2.9	2.5622	0.084	3.3	ug/L	9082	Standard
|	Cr	53	5044.9	1.1	3.0403	0.037	1.2	ug/L	586	Standard
>	Ge	72	249185.0	2.0				ug/L	253733	Standard
|	As	75	4992.7	3.4	0.9838	0.111	11.2	ug/L	3853	Standard
|	As-1	75	1325.5	7.5	1.0436	0.065	6.2	ug/L	-67	Standard
|	Se	77	205.3	11.9	1.1031	0.226	20.4	ug/L	107	Standard
|	Se	78	4615.4	2.2	-0.0164	0.233	1425.3	ug/L	4705	Standard
|	Br	79	20513.7	2.7				ug/L	138	Standard
|	Se	82	151.3	8.7	0.4943	0.063	12.7	ug/L	72	Standard
|	Kr	83	55.7	14.5				ug/L	63	Standard
|	Y	89	531920.0	2.9				ug/L	532199	Standard
|	Rh	103	438360.8	2.3				ug/L	467132	Standard
|	Cd	111	329.3	6.5	0.0127	0.006	50.4	ug/L	298	Standard
|	Cd	114	41.1	22.5	0.0005	0.001	244.9	ug/L	39	Standard
>	In	115	440565.0	1.0				ug/L	453861	Standard
>	Tb	159	581963.0	1.9				ug/L	578005	Standard
|	Ho	165	596842.0	1.0				ug/L	598603	Standard
|	Pb	208	1285.4	0.8	0.0163	0.001	4.4	ug/L	607	Standard
|	Bi	209	326577.1	0.6				ug/L	350942	Standard
|	Th	232	432654.1	0.7				ug/L	438613	Standard
|	Cr-1	52	1364.1	5.0	1.3864	0.093	6.7	ug/L	182	KED
|	Cr-1	53	163.7	4.5	1.3632	0.088	6.5	ug/L	22	KED
>	Ge-1	72	9030.5	1.1				ug/L	9326	KED
|	As-2	75	47.0	20.5	0.8461	0.185	21.9	ug/L	2	KED
|	Y-1	89	16406.8	1.7				ug/L	16427	KED
|	Rh-1	103	90907.7	1.4				ug/L	95999	KED
|	Cd-1	111	3.3	45.8	0.0064	0.007	112.9	ug/L	2	KED
|	Cd-1	114	4.9	38.5	0.0004	0.003	835.1	ug/L	5	KED
>	In-1	115	10412.6	0.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		115.877
|	Cr	52		
|	Cr	53		
>	Ge	72		98.207
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-05d 2X

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Cd	114	
In	115	97.070
Tb	159	100.685
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	96.831
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.301

Quantitative Analysis - Summary Report

Sample ID: 08-268-06d 2X

Sample Date/Time: Thursday, September 01, 2022 14:35:15

Report Date/Time: Monday, September 05, 2022 08:08:09

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06d 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	461001.7	2.0				ug/L	404154	Standard
|	Cr	52	30113.7	3.2	1.5931	0.030	1.9	ug/L	9082	Standard
|	Cr	53	2976.6	3.7	1.6323	0.038	2.3	ug/L	586	Standard
[>	Ge	72	249430.0	1.5				ug/L	253733	Standard
|	As	75	6523.6	2.8	2.2237	0.081	3.6	ug/L	3853	Standard
|	As-1	75	2708.2	5.7	2.0783	0.085	4.1	ug/L	-67	Standard
|	Se	77	151.0	6.3	0.5042	0.080	15.8	ug/L	107	Standard
|	Se	78	4722.1	2.1	0.3283	0.173	52.8	ug/L	4705	Standard
|	Br	79	13617.8	2.6				ug/L	138	Standard
|	Se	82	128.0	22.0	0.3379	0.157	46.3	ug/L	72	Standard
|	Kr	83	58.0	13.7				ug/L	63	Standard
|	Y	89	528041.6	1.5				ug/L	532199	Standard
|	Rh	103	440246.9	1.7				ug/L	467132	Standard
|	Cd	111	305.7	6.7	0.0060	0.006	106.3	ug/L	298	Standard
|	Cd	114	36.2	15.5	-0.0001	0.001	675.8	ug/L	39	Standard
[>	In	115	437009.5	1.0				ug/L	453861	Standard
[>	Tb	159	581958.5	0.4				ug/L	578005	Standard
|	Ho	165	594893.1	1.1				ug/L	598603	Standard
|	Pb	208	479.0	4.4	-0.0032	0.000	14.5	ug/L	607	Standard
|	Bi	209	329505.5	0.5				ug/L	350942	Standard
|	Th	232	429006.2	0.8				ug/L	438613	Standard
|	Cr-1	52	749.0	5.6	0.6561	0.048	7.3	ug/L	182	KED
|	Cr-1	53	100.3	9.0	0.7446	0.092	12.4	ug/L	22	KED
[>	Ge-1	72	9180.6	0.7				ug/L	9326	KED
|	As-2	75	112.7	12.6	2.0484	0.279	13.6	ug/L	2	KED
|	Y-1	89	16538.6	0.6				ug/L	16427	KED
|	Rh-1	103	90875.5	1.2				ug/L	95999	KED
|	Cd-1	111	1.0	100.0	-0.0045	0.005	99.8	ug/L	2	KED
|	Cd-1	114	4.0	18.3	-0.0013	0.001	100.2	ug/L	5	KED
[>	In-1	115	10519.8	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		114.066
	Cr	52		
	Cr	53		
[>	Ge	72		98.304
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	96.287
Tb	159	100.684
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.226
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.313

Quantitative Analysis - Summary Report

Sample ID: 08-268-07d 2X

Sample Date/Time: Thursday, September 01, 2022 14:39:48

Report Date/Time: Monday, September 05, 2022 08:08:11

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-07d 2X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD'	Units	Blank Intens.	Mode
>	Sc	45	451159.3	1.5				ug/L	404154	Standard
|	Cr	52	36328.1	1.7	2.1588	0.028	1.3	ug/L	9082	Standard
|	Cr	53	3076.7	3.2	1.7514	0.085	4.9	ug/L	586	Standard
>	Ge	72	246071.6	0.7				ug/L	253733	Standard
|	As	75	5287.3	1.2	1.2780	0.043	3.4	ug/L	3853	Standard
|	As-1	75	1497.2	4.2	1.1871	0.053	4.4	ug/L	-67	Standard
|	Se	77	137.7	12.5	0.3781	0.185	48.9	ug/L	107	Standard
|	Se	78	4772.5	1.3	0.7195	0.113	15.6	ug/L	4705	Standard
|	Br	79	17821.1	1.6				ug/L	138	Standard
|	Se	82	157.3	7.7	0.5443	0.080	14.7	ug/L	72	Standard
|	Kr	83	73.3	35.7				ug/L	63	Standard
|	Y	89	525052.4	1.1				ug/L	532199	Standard
|	Rh	103	434663.6	1.3				ug/L	467132	Standard
|	Cd	111	294.7	11.7	0.0030	0.012	382.8	ug/L	298	Standard
|	Cd	114	34.4	36.2	-0.0003	0.002	497.4	ug/L	39	Standard
>	In	115	434536.5	0.4				ug/L	453861	Standard
>	Tb	159	575653.3	0.5				ug/L	578005	Standard
|	Ho	165	591275.8	0.0				ug/L	598603	Standard
|	Pb	208	1088.3	5.7	0.0118	0.001	11.8	ug/L	607	Standard
|	Bi	209	321593.6	1.4				ug/L	350942	Standard
|	Th	232	425380.5	0.7				ug/L	438613	Standard
|	Cr-1	52	1046.4	1.6	1.0138	0.023	2.3	ug/L	182	KED
|	Cr-1	53	124.7	5.7	0.9887	0.067	6.8	ug/L	22	KED
>	Ge-1	72	9041.5	0.6				ug/L	9326	KED
|	As-2	75	70.7	11.0	1.2880	0.150	11.6	ug/L	2	KED
|	Y-1	89	16347.7	0.6				ug/L	16427	KED
|	Rh-1	103	89590.7	0.8				ug/L	95999	KED
|	Cd-1	111	3.0	88.2	0.0048	0.012	257.3	ug/L	2	KED
|	Cd-1	114	1.6	55.8	-0.0057	0.002	27.2	ug/L	5	KED
>	In-1	115	10434.6	0.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.631
	Cr	52		
	Cr	53		
>	Ge	72		96.980
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	95.742
Tb	159	99.593
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	96.949
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.509

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 14:44:21

Report Date/Time: Monday, September 05, 2022 08:08:13

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	381159.3	1.8				ug/L	404154	Standard
|	Cr	52	408616.8	2.7	39.0306	0.732	1.9	ug/L	9082	Standard
|	Cr	53	46456.4	2.1	39.2724	0.562	1.4	ug/L	586	Standard
>	Ge	72	243910.0	2.3				ug/L	253733	Standard
|	As	75	51801.4	2.2	39.9845	0.668	1.7	ug/L	3853	Standard
|	As-1	75	51560.1	2.5	39.5652	0.644	1.6	ug/L	-67	Standard
|	Se	77	3651.5	2.9	40.0019	0.939	2.3	ug/L	107	Standard
|	Se	78	16097.7	2.1	40.0856	0.556	1.4	ug/L	4705	Standard
|	Br	79	352.0	2.3				ug/L	138	Standard
|	Se	82	6230.7	3.0	38.5031	0.585	1.5	ug/L	72	Standard
|	Kr	83	55.3	5.2				ug/L	63	Standard
|	Y	89	511567.8	2.3				ug/L	532199	Standard
|	Rh	103	436609.8	0.7				ug/L	467132	Standard
|	Cd	111	120463.6	1.2	39.0325	0.457	1.2	ug/L	298	Standard
|	Cd	114	302913.5	0.9	38.8798	0.396	1.0	ug/L	39	Standard
>	In	115	433660.4	0.7				ug/L	453861	Standard
>	Tb	159	565839.3	1.1				ug/L	578005	Standard
|	Ho	165	578877.6	0.7				ug/L	598603	Standard
|	Pb	208	1601281.7	0.2	39.6886	0.381	1.0	ug/L	607	Standard
|	Bi	209	335185.7	0.5				ug/L	350942	Standard
|	Th	232	418006.8	0.6				ug/L	438613	Standard
|	Cr-1	52	33254.7	1.7	38.1807	0.338	0.9	ug/L	182	KED
|	Cr-1	53	4043.9	1.5	38.0203	0.513	1.3	ug/L	22	KED
>	Ge-1	72	9124.6	1.3				ug/L	9326	KED
|	As-2	75	2065.1	1.1	38.3039	0.161	0.4	ug/L	2	KED
|	Y-1	89	16044.0	0.6				ug/L	16427	KED
|	Rh-1	103	91733.6	0.7				ug/L	95999	KED
|	Cd-1	111	8398.1	1.4	39.0233	0.794	2.0	ug/L	2	KED
|	Cd-1	114	21256.6	0.6	38.4659	0.365	0.9	ug/L	5	KED
>	In-1	115	10380.5	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.310
|	Cr	52	97.576	
|	Cr	53	98.181	
>	Ge	72		96.128
|	As	75	99.961	
	As-1	75	98.913	
	Se	77	100.005	
	Se	78	100.214	
	Br	79		
	Se	82	96.258	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	97.581	

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Cd	114	97.200	
In	115		95.549
Tb	159		97.895
Ho	165		
Pb	208	99.221	
Bi	209		
Th	232		
Cr-1	52	95.452	
Cr-1	53	95.051	
Ge-1	72		97.840
As-2	75	95.760	
Y-1	89		
Rh-1	103		
Cd-1	111	97.558	
Cd-1	114	96.165	
In-1	115		97.998

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 14:48:53

Report Date/Time: Monday, September 05, 2022 08:08:14

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	379185.3	1.7				ug/L	404154	Standard
|	Cr	52	204573.3	2.5	19.2266	0.274	1.4	ug/L	9082	Standard
|	Cr	53	22862.0	2.1	19.1875	0.222	1.2	ug/L	586	Standard
>	Ge	72	241382.8	2.7				ug/L	253733	Standard
|	As	75	27082.1	2.3	19.6703	0.101	0.5	ug/L	3853	Standard
|	As-1	75	25068.2	2.2	19.4633	0.103	0.5	ug/L	-67	Standard
|	Se	77	1827.8	2.1	19.6646	0.531	2.7	ug/L	107	Standard
|	Se	78	10123.3	2.5	19.7618	0.057	0.3	ug/L	4705	Standard
|	Br	79	267.7	2.1				ug/L	138	Standard
|	Se	82	3072.0	2.3	18.9686	0.069	0.4	ug/L	72	Standard
|	Kr	83	53.7	3.9				ug/L	63	Standard
|	Y	89	502225.0	2.9				ug/L	532199	Standard
|	Rh	103	433528.7	2.1				ug/L	467132	Standard
|	Cd	111	59408.4	0.5	19.5222	0.126	0.6	ug/L	298	Standard
|	Cd	114	147177.0	0.5	19.2011	0.170	0.9	ug/L	39	Standard
>	In	115	426602.2	0.9				ug/L	453861	Standard
>	Tb	159	556240.5	0.5				ug/L	578005	Standard
|	Ho	165	568383.1	0.9				ug/L	598603	Standard
|	Pb	208	774735.1	0.5	19.5251	0.147	0.8	ug/L	607	Standard
|	Bi	209	329882.7	0.3				ug/L	350942	Standard
|	Th	232	409592.5	0.3				ug/L	438613	Standard
|	Cr-1	52	16202.5	0.9	18.9534	0.282	1.5	ug/L	182	KED
|	Cr-1	53	1979.1	2.3	18.9577	0.314	1.7	ug/L	22	KED
>	Ge-1	72	8908.1	0.7				ug/L	9326	KED
|	As-2	75	1010.7	2.9	19.1826	0.514	2.7	ug/L	2	KED
|	Y-1	89	15779.7	0.2				ug/L	16427	KED
|	Rh-1	103	91520.6	0.8				ug/L	95999	KED
|	Cd-1	111	4105.9	0.6	19.3101	0.270	1.4	ug/L	2	KED
|	Cd-1	114	10412.1	1.8	19.0710	0.391	2.1	ug/L	5	KED
>	In-1	115	10253.3	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.822
|	Cr	52	96.133	
|	Cr	53	95.938	
>	Ge	72		95.132
|	As	75	98.351	
|	As-1	75	97.317	
|	Se	77	98.323	
|	Se	78	98.809	
|	Br	79		
|	Se	82	94.843	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	97.611	

Sample ID: QC Std 7

Report Date/Time: Monday, September 05, 2022 08:08:14

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Cd	114	96.006	
In	115		93.994
Tb	159		96.235
Ho	165		
Pb	208	97.625	
Bi	209		
Th	232		
Cr-1	52	94.767	
Cr-1	53	94.789	
Ge-1	72		95.519
As-2	75	95.913	
Y-1	89		
Rh-1	103		
Cd-1	111	96.551	
Cd-1	114	95.355	
In-1	115		96.797

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 14:53:26

Report Date/Time: Monday, September 05, 2022 08:08:16

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	379291.2	2.7				ug/L	404154	Standard
|	Cr	52	9260.0	2.5	0.0723	0.012	17.1	ug/L	9082	Standard
|	Cr	53	631.0	4.4	0.0696	0.013	18.2	ug/L	586	Standard
>	Ge	72	239089.0	2.0				ug/L	253733	Standard
|	As	75	3783.8	3.2	0.1300	0.067	51.5	ug/L	3853	Standard
|	As-1	75	-70.9	64.0	-0.0062	0.036	581.4	ug/L	-67	Standard
|	Se	77	99.7	10.1	-0.0138	0.107	777.3	ug/L	107	Standard
|	Se	78	4608.4	2.1	0.6194	0.208	33.6	ug/L	4705	Standard
|	Br	79	211.7	8.3				ug/L	138	Standard
|	Se	82	63.3	6.6	-0.0270	0.019	69.9	ug/L	72	Standard
|	Kr	83	51.0	11.8				ug/L	63	Standard
|	Y	89	496146.7	2.0				ug/L	532199	Standard
|	Rh	103	434579.8	2.4				ug/L	467132	Standard
|	Cd	111	283.1	5.6	-0.0003	0.005	1700.2	ug/L	298	Standard
|	Cd	114	36.8	23.7	0.0000	0.001	10763.4	ug/L	39	Standard
>	In	115	432192.6	0.2				ug/L	453861	Standard
>	Tb	159	557450.5	0.2				ug/L	578005	Standard
|	Ho	165	573010.2	0.9				ug/L	598603	Standard
|	Pb	208	871.3	13.0	0.0072	0.003	39.2	ug/L	607	Standard
|	Bi	209	330006.9	0.8				ug/L	350942	Standard
|	Th	232	413737.2	0.5				ug/L	438613	Standard
|	Cr-1	52	167.3	9.5	-0.0116	0.018	158.8	ug/L	182	KED
|	Cr-1	53	20.7	12.2	-0.0048	0.022	451.8	ug/L	22	KED
>	Ge-1	72	9106.9	1.3				ug/L	9326	KED
|	As-2	75	1.3	86.6	-0.0116	0.021	183.8	ug/L	2	KED
|	Y-1	89	16137.8	1.5				ug/L	16427	KED
|	Rh-1	103	93361.5	2.0				ug/L	95999	KED
|	Cd-1	111	2.0	50.0	0.0001	0.005	3688.3	ug/L	2	KED
|	Cd-1	114	7.3	20.0	0.0047	0.003	56.5	ug/L	5	KED
>	In-1	115	10431.9	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.848
|	Cr	52		
|	Cr	53		
>	Ge	72		94.228
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	95.226
Tb	159	96.444
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.650
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.483

Quantitative Analysis - Summary Report

Sample ID: 08-268-08d 2X

Sample Date/Time: Thursday, September 01, 2022 14:58:45

Report Date/Time: Monday, September 05, 2022 08:08:18

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-08d 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	433797.4	2.1				ug/L	404154	Standard
|	Cr	52	20096.8	5.2	0.8869	0.073	8.3	ug/L	9082	Standard
|	Cr	53	1201.4	2.6	0.4303	0.017	4.1	ug/L	586	Standard
>	Ge	72	245642.6	2.7				ug/L	253733	Standard
|	As	75	5931.1	4.2	1.8157	0.073	4.0	ug/L	3853	Standard
|	As-1	75	2097.9	3.9	1.6457	0.024	1.5	ug/L	-67	Standard
|	Se	77	123.3	10.9	0.2243	0.188	83.6	ug/L	107	Standard
|	Se	78	4683.4	4.3	0.4379	0.257	58.7	ug/L	4705	Standard
|	Br	79	8513.9	0.5				ug/L	138	Standard
|	Se	82	102.7	15.7	0.2066	0.100	48.3	ug/L	72	Standard
|	Kr	83	54.0	17.7				ug/L	63	Standard
|	Y	89	514436.1	0.7				ug/L	532199	Standard
|	Rh	103	431887.9	1.6				ug/L	467132	Standard
|	Cd	111	320.7	5.8	0.0127	0.007	53.7	ug/L	298	Standard
|	Cd	114	169.1	9.5	0.0172	0.002	13.0	ug/L	39	Standard
>	In	115	429189.9	0.8				ug/L	453861	Standard
>	Tb	159	570941.7	0.5				ug/L	578005	Standard
|	Ho	165	585815.8	0.5				ug/L	598603	Standard
|	Pb	208	815.7	5.0	0.0053	0.001	17.1	ug/L	607	Standard
|	Bi	209	325721.6	0.6				ug/L	350942	Standard
|	Th	232	422963.2	1.1				ug/L	438613	Standard
|	Cr-1	52	270.3	5.4	0.1047	0.016	15.1	ug/L	182	KED
|	Cr-1	53	38.7	4.0	0.1626	0.017	10.7	ug/L	22	KED
>	Ge-1	72	9189.0	1.0				ug/L	9326	KED
|	As-2	75	89.0	6.8	1.6048	0.120	7.5	ug/L	2	KED
|	Y-1	89	16350.4	1.2				ug/L	16427	KED
|	Rh-1	103	91202.5	0.8				ug/L	95999	KED
|	Cd-1	111	6.0	44.1	0.0179	0.012	66.0	ug/L	2	KED
|	Cd-1	114	12.9	28.9	0.0143	0.007	47.1	ug/L	5	KED
>	In-1	115	10691.7	1.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.335
|	Cr	52		
|	Cr	53		
>	Ge	72		96.811
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-08d 2X

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Cd	114	
In	115	94.564
Tb	159	98.778
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.530
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	100.936

Quantitative Analysis - Summary Report

Sample ID: 08-268-09d 2X

Sample Date/Time: Thursday, September 01, 2022 15:03:17

Report Date/Time: Monday, September 05, 2022 08:08:20

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-09d 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	459581.6	1.9				ug/L	404154	Standard
|	Cr	52	42942.5	2.6	2.6388	0.029	1.1	ug/L	9082	Standard
|	Cr	53	4182.3	0.9	2.4950	0.030	1.2	ug/L	586	Standard
>	Ge	72	245658.7	2.6				ug/L	253733	Standard
|	As	75	4985.1	1.5	1.0366	0.042	4.1	ug/L	3853	Standard
|	As-1	75	1276.5	2.5	1.0212	0.024	2.4	ug/L	-67	Standard
|	Se	77	163.3	11.5	0.6686	0.203	30.4	ug/L	107	Standard
|	Se	78	4650.4	1.6	0.3306	0.167	50.4	ug/L	4705	Standard
|	Br	79	20425.9	2.8				ug/L	138	Standard
|	Se	82	146.3	4.6	0.4777	0.043	8.9	ug/L	72	Standard
|	Kr	83	63.0	13.6				ug/L	63	Standard
|	Y	89	517400.8	2.3				ug/L	532199	Standard
|	Rh	103	427850.0	2.8				ug/L	467132	Standard
|	Cd	111	301.2	10.7	0.0077	0.011	138.4	ug/L	298	Standard
|	Cd	114	42.5	33.1	0.0009	0.002	213.3	ug/L	39	Standard
>	In	115	423353.4	0.6				ug/L	453861	Standard
>	Tb	159	565689.6	0.6				ug/L	578005	Standard
|	Ho	165	579812.5	0.5				ug/L	598603	Standard
|	Pb	208	1005.3	1.4	0.0102	0.000	2.5	ug/L	607	Standard
|	Bi	209	315881.3	0.9				ug/L	350942	Standard
|	Th	232	421080.0	0.9				ug/L	438613	Standard
|	Cr-1	52	1411.1	3.4	1.4309	0.046	3.2	ug/L	182	KED
|	Cr-1	53	166.3	9.9	1.3783	0.148	10.7	ug/L	22	KED
>	Ge-1	72	9083.2	0.7				ug/L	9326	KED
|	As-2	75	55.7	10.4	1.0020	0.110	10.9	ug/L	2	KED
|	Y-1	89	16356.0	1.8				ug/L	16427	KED
|	Rh-1	103	89668.2	1.2				ug/L	95999	KED
|	Cd-1	111	4.3	26.6	0.0112	0.006	49.7	ug/L	2	KED
|	Cd-1	114	3.5	109.6	-0.0022	0.007	320.7	ug/L	5	KED
>	In-1	115	10327.0	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		113.715
|	Cr	52		
|	Cr	53		
>	Ge	72		96.818
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-09d 2X

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Cd	114	
In	115	93.278
Tb	159	97.869
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.396
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.493

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cD 2X

Sample Date/Time: Thursday, September 01, 2022 15:07:49

Report Date/Time: Monday, September 05, 2022 08:08:22

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cD 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	451660.4	0.8				ug/L	404154	Standard
|	Cr	52	16452.8	2.8	0.5189	0.030	5.7	ug/L	9082	Standard
|	Cr	53	2435.9	2.5	1.2858	0.042	3.3	ug/L	586	Standard
>	Ge	72	247765.6	2.5				ug/L	253733	Standard
|	As	75	4109.7	1.8	0.2850	0.028	9.8	ug/L	3853	Standard
|	As-1	75	278.0	5.5	0.2596	0.015	5.9	ug/L	-67	Standard
|	Se	77	149.0	6.6	0.4939	0.101	20.5	ug/L	107	Standard
|	Se	78	4666.4	2.6	0.2470	0.185	74.9	ug/L	4705	Standard
|	Br	79	5249.6	2.0				ug/L	138	Standard
|	Se	82	96.7	10.6	0.1639	0.058	35.2	ug/L	72	Standard
|	Kr	83	58.7	11.6				ug/L	63	Standard
|	Y	89	525151.3	1.1				ug/L	532199	Standard
|	Rh	103	435274.7	1.5				ug/L	467132	Standard
|	Cd	111	301.8	2.6	0.0051	0.002	41.0	ug/L	298	Standard
|	Cd	114	95.9	16.3	0.0075	0.002	25.8	ug/L	39	Standard
>	In	115	435337.5	0.9				ug/L	453861	Standard
>	Tb	159	570607.3	0.3				ug/L	578005	Standard
|	Ho	165	588994.0	0.6				ug/L	598603	Standard
|	Pb	208	1308.7	4.5	0.0175	0.002	8.9	ug/L	607	Standard
|	Bi	209	328718.7	0.4				ug/L	350942	Standard
|	Th	232	423879.4	0.5				ug/L	438613	Standard
|	Cr-1	52	358.7	3.8	0.2055	0.014	6.7	ug/L	182	KED
|	Cr-1	53	44.3	7.9	0.2153	0.032	14.9	ug/L	22	KED
>	Ge-1	72	9198.3	0.5				ug/L	9326	KED
|	As-2	75	11.7	21.6	0.1786	0.047	26.1	ug/L	2	KED
|	Y-1	89	16529.6	1.2				ug/L	16427	KED
|	Rh-1	103	91519.9	1.3				ug/L	95999	KED
|	Cd-1	111	4.0	66.1	0.0091	0.012	131.9	ug/L	2	KED
|	Cd-1	114	6.7	26.3	0.0034	0.003	93.0	ug/L	5	KED
>	In-1	115	10605.3	0.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.755
|	Cr	52		
|	Cr	53		
>	Ge	72		97.648
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-298-01cD 2X

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Cd	114	
In	115	95.919
Tb	159	98.720
Hø	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.630
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	100.121

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cL 10X

Sample Date/Time: Thursday, September 01, 2022 15:12:21

Report Date/Time: Monday, September 05, 2022 08:08:24

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cL 10X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	388035.7	0.9				ug/L	404154	Standard
|	Cr	52	11028.6	3.7	0.2211	0.030	13.5	ug/L	9082	Standard
|	Cr	53	1058.0	5.1	0.4161	0.037	9.0	ug/L	586	Standard
>	Ge	72	238538.0	2.1				ug/L	253733	Standard
|	As	75	3770.6	1.6	0.1267	0.019	14.8	ug/L	3853	Standard
|	As-1	75	-47.6	46.9	0.0121	0.018	149.4	ug/L	-67	Standard
|	Se	77	120.7	6.2	0.2308	0.063	27.5	ug/L	107	Standard
|	Se	78	4590.7	1.1	0.5964	0.190	31.8	ug/L	4705	Standard
|	Br	79	1327.1	0.5				ug/L	138	Standard
|	Se	82	73.0	7.2	0.0359	0.032	90.1	ug/L	72	Standard
|	Kr	83	61.0	4.3				ug/L	63	Standard
|	Y	89	486494.0	1.2				ug/L	532199	Standard
|	Rh	103	416841.4	1.4				ug/L	467132	Standard
|	Cd	111	266.4	8.8	-0.0018	0.008	410.0	ug/L	298	Standard
|	Cd	114	50.5	15.6	0.0021	0.001	50.8	ug/L	39	Standard
>	In	115	413493.7	0.6				ug/L	453861	Standard
>	Tb	159	540797.3	1.2				ug/L	578005	Standard
|	Ho	165	554861.9	0.1				ug/L	598603	Standard
|	Pb	208	1441.4	3.9	0.0227	0.001	5.3	ug/L	607	Standard
|	Bi	209	319596.4	0.3				ug/L	350942	Standard
|	Th	232	398942.9	0.6				ug/L	438613	Standard
|	Cr-1	52	210.0	12.5	0.0469	0.034	71.6	ug/L	182	KED
|	Cr-1	53	26.7	47.5	0.0610	0.123	200.8	ug/L	22	KED
>	Ge-1	72	8780.7	0.8				ug/L	9326	KED
|	As-2	75	4.3	74.2	0.0476	0.063	132.3	ug/L	2	KED
|	Y-1	89	15535.8	1.9				ug/L	16427	KED
|	Rh-1	103	88165.2	0.7				ug/L	95999	KED
|	Cd-1	111	2.3	49.5	0.0019	0.005	289.1	ug/L	2	KED
|	Cd-1	114	4.3	66.8	-0.0007	0.005	789.2	ug/L	5	KED
>	In-1	115	10242.2	0.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		96.012
|	Cr	52		
|	Cr	53		
>	Ge	72		94.011
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-298-01cL 10X

Report Date/Time: Monday, September 05, 2022 08:08:24

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Cd	114	
In	115	91.106
Tb	159	93.563
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.152
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	96.692

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cMS 2X

Sample Date/Time: Thursday, September 01, 2022 15:16:53

Report Date/Time: Monday, September 05, 2022 08:08:27

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMS 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	453803.8	1.9				ug/L	404154	Standard
|	Cr	52	432012.2	2.3	34.5684	0.646	1.9	ug/L	9082	Standard
|	Cr	53	50672.1	2.4	35.9399	0.686	1.9	ug/L	586	Standard
>	Ge	72	253056.9	1.4				ug/L	253733	Standard
|	As	75	55104.3	2.9	41.0652	0.761	1.9	ug/L	3853	Standard
|	As-1	75	55321.7	2.7	40.9082	0.541	1.3	ug/L	-67	Standard
|	Se	77	3896.5	3.3	41.1758	1.369	3.3	ug/L	107	Standard
|	Se	78	16684.4	2.7	40.0253	1.263	3.2	ug/L	4705	Standard
|	Br	79	5181.3	0.8				ug/L	138	Standard
|	Se	82	6670.2	1.6	39.7448	0.243	0.6	ug/L	72	Standard
|	Kr	83	55.0	14.9				ug/L	63	Standard
|	Y	89	523354.9	1.4				ug/L	532199	Standard
|	Rh	103	443577.6	1.9				ug/L	467132	Standard
|	Cd	111	123562.4	1.4	39.6701	0.410	1.0	ug/L	298	Standard
|	Cd	114	310940.4	1.0	39.5434	0.308	0.8	ug/L	39	Standard
>	In	115	437669.1	0.4				ug/L	453861	Standard
>	Tb	159	582275.9	0.9				ug/L	578005	Standard
|	Ho	165	593555.2	0.2				ug/L	598603	Standard
|	Pb	208	1615664.5	0.2	38.9140	0.380	1.0	ug/L	607	Standard
|	Bi	209	331996.3	0.8				ug/L	350942	Standard
|	Th	232	428163.7	0.5				ug/L	438613	Standard
|	Cr-1	52	33773.5	0.5	39.0151	0.560	1.4	ug/L	182	KED
|	Cr-1	53	4168.9	1.5	39.4337	0.381	1.0	ug/L	22	KED
>	Ge-1	72	9070.9	1.2				ug/L	9326	KED
|	As-2	75	2206.2	0.2	41.1667	0.417	1.0	ug/L	2	KED
|	Y-1	89	16388.1	0.4				ug/L	16427	KED
|	Rh-1	103	92057.3	0.7				ug/L	95999	KED
|	Cd-1	111	8564.9	1.2	38.4543	0.694	1.8	ug/L	2	KED
|	Cd-1	114	22221.8	1.1	38.8565	0.633	1.6	ug/L	5	KED
>	In-1	115	10742.7	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		112.285
|	Cr	52		
|	Cr	53		
>	Ge	72		99.733
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-298-01cMS 2X

Report Date/Time: Monday, September 05, 2022 08:08:27

—	Cd	114	
↳	In	115	96.432
↳	Tb	159	100.739
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	97.264
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	101.418

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cMSD 2X

Sample Date/Time: Thursday, September 01, 2022 15:21:24

Report Date/Time: Monday, September 05, 2022 08:08:29

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMSD 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	458602.3	2.0				ug/L	404154	Standard
|	Cr	52	441974.3	3.3	34.9983	0.524	1.5	ug/L	9082	Standard
|	Cr	53	50681.1	2.9	35.5597	0.361	1.0	ug/L	586	Standard
>	Ge	72	251478.6	2.8				ug/L	253733	Standard
|	As	75	55517.2	0.9	41.6967	0.900	2.2	ug/L	3853	Standard
|	As-1	75	55257.5	1.4	41.1322	0.560	1.4	ug/L	-67	Standard
|	Se	77	3848.2	2.7	40.9223	1.179	2.9	ug/L	107	Standard
|	Se	78	16866.6	1.4	41.0060	1.167	2.8	ug/L	4705	Standard
|	Br	79	5150.9	4.3				ug/L	138	Standard
|	Se	82	6525.2	3.3	39.1144	0.267	0.7	ug/L	72	Standard
|	Kr	83	67.0	11.8				ug/L	63	Standard
|	Y	89	524366.1	2.1				ug/L	532199	Standard
|	Rh	103	436024.6	1.9				ug/L	467132	Standard
|	Cd	111	123597.3	0.1	39.8627	0.204	0.5	ug/L	298	Standard
|	Cd	114	312689.8	0.7	39.9460	0.136	0.3	ug/L	39	Standard
>	In	115	435697.8	0.4				ug/L	453861	Standard
>	Tb	159	583221.1	0.3				ug/L	578005	Standard
|	Ho	165	597476.0	0.9				ug/L	598603	Standard
|	Pb	208	1639122.6	0.9	39.4140	0.472	1.2	ug/L	607	Standard
|	Bi	209	333190.6	0.7				ug/L	350942	Standard
|	Th	232	429795.6	0.5				ug/L	438613	Standard
|	Cr-1	52	34196.6	1.2	39.0332	0.566	1.4	ug/L	182	KED
|	Cr-1	53	4174.3	1.8	39.0140	0.636	1.6	ug/L	22	KED
>	Ge-1	72	9179.6	0.6				ug/L	9326	KED
|	As-2	75	2251.2	2.0	41.5074	0.904	2.2	ug/L	2	KED
|	Y-1	89	16427.4	0.4				ug/L	16427	KED
|	Rh-1	103	92028.1	0.7				ug/L	95999	KED
|	Cd-1	111	8707.0	0.4	38.7170	0.309	0.8	ug/L	2	KED
|	Cd-1	114	22414.6	0.6	38.8181	0.426	1.1	ug/L	5	KED
>	In-1	115	10846.2	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		113.472
|	Cr	52		
|	Cr	53		
>	Ge	72		99.111
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-298-01cMSD 2X

Report Date/Time: Monday, September 05, 2022 08:08:29

Cd	114	
In	115	95.998
Tb	159	100.902
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.430
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	102.394

Quantitative Analysis - Summary Report

Sample ID: MB0901WM1 2X

Sample Date/Time: Thursday, September 01, 2022 15:25:55

Report Date/Time: Monday, September 05, 2022 08:08:31

Method File: C:\NexlONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220901B\MB0901WM1 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	381432.4	1.0				ug/L	404154	Standard
|	Cr	52	9913.8	3.4	0.1307	0.024	18.0	ug/L	9082	Standard
|	Cr	53	637.3	7.7	0.0718	0.037	51.9	ug/L	586	Standard
>	Ge	72	240808.5	1.9				ug/L	253733	Standard
|	As	75	3864.2	2.9	0.1754	0.094	53.5	ug/L	3853	Standard
|	As-1	75	-100.2	36.6	-0.0280	0.028	99.6	ug/L	-67	Standard
|	Se	77	116.0	10.2	0.1653	0.138	83.6	ug/L	107	Standard
|	Se	78	4717.1	2.6	0.8843	0.330	37.3	ug/L	4705	Standard
|	Br	79	419.7	10.1				ug/L	138	Standard
|	Se	82	56.3	15.3	-0.0745	0.049	65.4	ug/L	72	Standard
|	Kr	83	63.3	12.8				ug/L	63	Standard
|	Y	89	501711.8	1.8				ug/L	532199	Standard
|	Rh	103	429273.0	1.1				ug/L	487132	Standard
|	Cd	111	269.4	7.2	-0.0018	0.006	341.0	ug/L	298	Standard
|	Cd	114	66.6	25.2	0.0041	0.002	53.0	ug/L	39	Standard
>	In	115	417847.4	0.8				ug/L	453861	Standard
>	Tb	159	544346.8	0.1				ug/L	578005	Standard
|	Ho	165	560952.7	0.7				ug/L	598603	Standard
|	Pb	208	1443.4	4.6	0.0225	0.002	7.8	ug/L	607	Standard
|	Bi	209	318326.5	0.1				ug/L	350942	Standard
|	Th	232	402001.4	0.4				ug/L	438613	Standard
|	Cr-1	52	180.7	1.6	0.0099	0.004	36.2	ug/L	182	KED
|	Cr-1	53	23.7	32.0	0.0303	0.074	243.3	ug/L	22	KED
>	Ge-1	72	8849.1	0.3				ug/L	9326	KED
|	As-2	75	1.7	34.6	-0.0044	0.011	249.6	ug/L	2	KED
|	Y-1	89	15801.1	0.9				ug/L	16427	KED
|	Rh-1	103	90931.2	0.8				ug/L	95999	KED
|	Cd-1	111	3.3	34.6	0.0064	0.005	84.3	ug/L	2	KED
|	Cd-1	114	5.7	14.6	0.0017	0.001	80.7	ug/L	5	KED
>	In-1	115	10371.7	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.378
|	Cr	52		
|	Cr	53		
>	Ge	72		94.906
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: MB0901WM1 2X

Report Date/Time: Monday, September 05, 2022 08:08:31

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Cd	114	
In	115	92.065
Tb	159	94.177
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.886
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.915

Quantitative Analysis - Summary Report

Sample ID: SB0901WM1 2X

Sample Date/Time: Thursday, September 01, 2022 15:30:26

Report Date/Time: Monday, September 05, 2022 08:08:33

Method File: C:\NexlONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220901B\SB0901WM1 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	387283.0	3.0				ug/L	404154	Standard
|	Cr	52	520391.2	4.3	49.1215	0.635	1.3	ug/L	9082	Standard
|	Cr	53	59149.3	3.5	49.3272	0.590	1.2	ug/L	586	Standard
>	Ge	72	239759.6	2.9				ug/L	253733	Standard
|	As	75	62182.8	2.6	49.5078	0.163	0.3	ug/L	3853	Standard
|	As-1	75	62657.7	2.5	48.9021	0.289	0.6	ug/L	-67	Standard
|	Se	77	4261.0	4.2	47.7075	1.819	3.8	ug/L	107	Standard
|	Se	78	18379.8	2.9	49.0884	0.647	1.3	ug/L	4705	Standard
|	Br	79	251.0	6.4				ug/L	138	Standard
|	Se	82	7454.9	2.5	46.9661	0.421	0.9	ug/L	72	Standard
|	Kr	83	73.3	43.8				ug/L	63	Standard
|	Y	89	498557.0	2.5				ug/L	532199	Standard
|	Rh	103	432504.5	3.1				ug/L	467132	Standard
|	Cd	111	142981.4	0.7	48.2491	0.474	1.0	ug/L	298	Standard
|	Cd	114	363224.5	0.8	48.5305	0.067	0.1	ug/L	39	Standard
>	In	115	416595.0	0.6				ug/L	453861	Standard
>	Tb	159	551219.6	1.4				ug/L	578005	Standard
|	Ho	165	560542.4	1.7				ug/L	598603	Standard
|	Pb	208	1944621.2	1.4	49.4781	0.385	0.8	ug/L	607	Standard
|	Bi	209	321301.4	1.3				ug/L	350942	Standard
|	Th	232	401853.6	1.6				ug/L	438613	Standard
|	Cr-1	52	40930.6	0.7	48.7135	0.740	1.5	ug/L	182	KED
|	Cr-1	53	5080.2	2.4	49.5021	0.655	1.3	ug/L	22	KED
>	Ge-1	72	8814.7	2.2				ug/L	9326	KED
|	As-2	75	2508.2	0.8	48.1849	1.348	2.8	ug/L	2	KED
|	Y-1	89	15660.6	0.9				ug/L	16427	KED
|	Rh-1	103	90176.5	2.0				ug/L	95999	KED
|	Cd-1	111	10273.4	1.0	47.7947	0.091	0.2	ug/L	2	KED
|	Cd-1	114	26402.7	0.8	47.8420	0.601	1.3	ug/L	5	KED
>	In-1	115	10367.0	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		95.826
|	Cr	52		
|	Cr	53		
>	Ge	72		94.493
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0901WM1 2X

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Cd	114	
In	115	91.789
Tb	159	95.366
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.517
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.871

Quantitative Analysis - Summary Report

Sample ID: 08-238-05c 2X

Sample Date/Time: Thursday, September 01, 2022 15:34:58

Report Date/Time: Monday, September 05, 2022 08:08:34

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05c 2X.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	458679.1	2.3				ug/L	404154	Standard
|	Cr	52	13175.1	2.6	0.2329	0.039	16.9	ug/L	9082	Standard
|	Cr	53	1436.4	5.6	0.5478	0.033	6.1	ug/L	586	Standard
>	Ge	72	240562.0	1.9				ug/L	253733	Standard
|	As	75	4843.7	1.4	1.0042	0.023	2.3	ug/L	3853	Standard
|	As-1	75	1054.5	2.1	0.8690	0.011	1.3	ug/L	-67	Standard
|	Se	77	135.0	6.1	0.3831	0.078	20.5	ug/L	107	Standard
|	Se	78	4609.7	1.7	0.5242	0.043	8.3	ug/L	4705	Standard
|	Br	79	5089.9	2.1				ug/L	138	Standard
|	Se	82	93.7	9.7	0.1624	0.046	28.5	ug/L	72	Standard
|	Kr	83	57.3	22.1				ug/L	63	Standard
|	Y	89	499635.9	2.7				ug/L	532199	Standard
|	Rh	103	420145.3	2.2				ug/L	467132	Standard
|	Cd	111	298.4	3.8	0.0091	0.004	42.0	ug/L	298	Standard
|	Cd	114	78.0	9.1	0.0058	0.001	16.7	ug/L	39	Standard
>	In	115	413472.2	0.5				ug/L	453861	Standard
>	Tb	159	549164.8	0.5				ug/L	578005	Standard
|	Ho	165	561859.8	0.6				ug/L	598603	Standard
|	Pb	208	1447.7	4.1	0.0223	0.002	7.0	ug/L	607	Standard
|	Bi	209	314411.9	0.2				ug/L	350942	Standard
|	Th	232	405902.2	0.6				ug/L	438613	Standard
|	Cr-1	52	432.7	1.2	0.3174	0.008	2.5	ug/L	182	KED
|	Cr-1	53	49.0	19.5	0.2837	0.091	32.0	ug/L	22	KED
>	Ge-1	72	8721.3	0.9				ug/L	9326	KED
|	As-2	75	52.3	14.1	0.9797	0.138	14.0	ug/L	2	KED
|	Y-1	89	15755.4	0.9				ug/L	16427	KED
|	Rh-1	103	88397.7	0.7				ug/L	95999	KED
|	Cd-1	111	4.3	48.0	0.0114	0.010	85.3	ug/L	2	KED
|	Cd-1	114	8.4	67.1	0.0071	0.010	146.3	ug/L	5	KED
>	In-1	115	10175.8	1.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		113.491
|	Cr	52		
|	Cr	53		
>	Ge	72		94.809
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05c 2X

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Cd	114	
In	115	91.101
Tb	159	95.010
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.516
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	96.065

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cD 2X

Sample Date/Time: Thursday, September 01, 2022 15:39:31

Report Date/Time: Monday, September 05, 2022 08:08:36

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cD 2X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	448884.0	2.1				ug/L	404154	Standard
|	Cr	52	13246.5	3.2	0.2616	0.018	6.7	ug/L	9082	Standard
|	Cr	53	1312.1	4.7	0.4805	0.046	9.5	ug/L	586	Standard
>	Ge	72	239717.1	2.1				ug/L	253733	Standard
|	As	75	4947.4	2.5	1.1059	0.029	2.6	ug/L	3853	Standard
|	As-1	75	1047.0	6.4	0.8656	0.036	4.2	ug/L	-67	Standard
|	Se	77	120.0	2.5	0.2176	0.055	25.4	ug/L	107	Standard
|	Se	78	4727.1	1.9	0.9951	0.073	7.3	ug/L	4705	Standard
|	Br	79	5500.4	4.0				ug/L	138	Standard
|	Se	82	89.3	10.9	0.1368	0.050	36.2	ug/L	72	Standard
|	Kr	83	52.3	19.9				ug/L	63	Standard
|	Y	89	498611.1	1.9				ug/L	532199	Standard
|	Rh	103	413107.2	2.1				ug/L	467132	Standard
|	Cd	111	267.1	3.8	-0.0012	0.003	257.8	ug/L	298	Standard
|	Cd	114	29.3	35.1	-0.0008	0.001	184.1	ug/L	39	Standard
>	In	115	411746.0	0.4				ug/L	453861	Standard
>	Tb	159	545281.8	0.2				ug/L	578005	Standard
|	Ho	165	562238.9	0.5				ug/L	598603	Standard
|	Pb	208	1896.7	1.2	0.0341	0.001	2.0	ug/L	607	Standard
|	Bi	209	312254.7	0.1				ug/L	350942	Standard
|	Th	232	402108.8	0.6				ug/L	438613	Standard
|	Cr-1	52	459.0	4.6	0.3618	0.028	7.8	ug/L	182	KED
|	Cr-1	53	43.7	5.3	0.2411	0.021	8.9	ug/L	22	KED
>	Ge-1	72	8528.2	0.6				ug/L	9326	KED
|	As-2	75	55.7	14.4	1.0697	0.163	15.2	ug/L	2	KED
|	Y-1	89	15580.5	0.7				ug/L	16427	KED
|	Rh-1	103	86890.4	0.4				ug/L	95999	KED
|	Cd-1	111	2.0	100.0	0.0004	0.010	2234.0	ug/L	2	KED
|	Cd-1	114	5.5	36.2	0.0017	0.004	215.3	ug/L	5	KED
>	In-1	115	10158.6	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.068
|	Cr	52		
|	Cr	53		
>	Ge	72		94.476
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-238-05cD 2X

Report Date/Time: Monday, September 05, 2022 08:08:36

Cd	114	
In	115	90.721
Tb	159	94.339
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	91.445
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	95.904

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 15:44:04

Report Date/Time: Monday, September 05, 2022 08:08:39

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381609.7	2.5				ug/L	404154	Standard
|	Cr	52	410687.6	2.3	39.1880	0.357	0.9	ug/L	9082	Standard
|	Cr	53	46978.2	3.1	39.6658	0.265	0.7	ug/L	586	Standard
[>	Ge	72	242863.6	2.6				ug/L	253733	Standard
|	As	75	51631.0	2.8	40.0225	0.198	0.5	ug/L	3853	Standard
|	As-1	75	51580.5	2.9	39.7471	0.320	0.8	ug/L	-67	Standard
|	Se	77	3575.1	4.0	39.3018	0.579	1.5	ug/L	107	Standard
|	Se	78	15848.8	2.6	39.4568	0.122	0.3	ug/L	4705	Standard
|	Br	79	385.0	9.9				ug/L	138	Standard
|	Se	82	6219.4	3.0	38.6005	0.432	1.1	ug/L	72	Standard
|	Kr	83	54.7	3.8				ug/L	63	Standard
|	Y	89	497834.5	1.7				ug/L	532199	Standard
|	Rh	103	426144.1	1.2				ug/L	467132	Standard
|	Cd	111	120616.8	0.3	39.7680	0.143	0.4	ug/L	298	Standard
|	Cd	114	304080.0	1.0	39.7121	0.373	0.9	ug/L	39	Standard
[>	In	115	426201.8	0.6				ug/L	453861	Standard
[>	Tb	159	558070.4	0.4				ug/L	578005	Standard
|	Ho	165	570960.8	0.8				ug/L	598603	Standard
|	Pb	208	1595082.2	0.6	40.0824	0.088	0.2	ug/L	607	Standard
|	Bi	209	329733.2	1.0				ug/L	350942	Standard
|	Th	232	407573.3	1.0				ug/L	438613	Standard
|	Cr-1	52	33999.1	0.6	38.8318	0.296	0.8	ug/L	182	KED
|	Cr-1	53	4210.0	0.8	39.3779	0.564	1.4	ug/L	22	KED
[>	Ge-1	72	9173.9	1.3				ug/L	9326	KED
|	As-2	75	2171.8	2.0	40.0740	1.117	2.8	ug/L	2	KED
|	Y-1	89	16138.1	0.7				ug/L	16427	KED
|	Rh-1	103	93383.6	1.3				ug/L	95999	KED
|	Cd-1	111	8600.3	1.1	39.2497	0.130	0.3	ug/L	2	KED
|	Cd-1	114	21845.2	0.9	38.8285	0.088	0.2	ug/L	5	KED
[>	In-1	115	10567.6	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.422
|	Cr	52	97.970	
|	Cr	53	99.165	
[>	Ge	72		95.716
|	As	75	100.056	
|	As-1	75	99.368	
	Se	77	98.254	
	Se	78	98.642	
	Br	79		
	Se	82	96.501	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.420	

Sample ID: QC Std 6

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Cd	114	99.280	
In	115		93.906
Tb	159		96.551
Ho	165		
Pb	208	100.206	
Bi	209		
Th	232		
Cr-1	52	97.079	
Cr-1	53	98.445	
Ge-1	72		98.369
As-2	75	100.185	
Y-1	89		
Rh-1	103		
Cd-1	111	98.124	
Cd-1	114	97.071	
In-1	115		99.764

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 15:48:36

Report Date/Time: Monday, September 05, 2022 08:08:41

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	377960.2	2.4				ug/L	404154	Standard
|	Cr	52	214731.5	2.5	20.2925	0.234	1.2	ug/L	9082	Standard
|	Cr	53	24116.7	2.6	20.3364	0.429	2.1	ug/L	586	Standard
>	Ge	72	238947.9	2.9				ug/L	253733	Standard
|	As	75	28109.9	3.2	20.7715	0.161	0.8	ug/L	3853	Standard
|	As-1	75	26145.7	3.1	20.5021	0.151	0.7	ug/L	-67	Standard
|	Se	77	1895.8	3.7	20.6526	0.446	2.2	ug/L	107	Standard
|	Se	78	10374.1	3.8	21.0026	0.434	2.1	ug/L	4705	Standard
|	Br	79	243.3	9.5				ug/L	138	Standard
|	Se	82	3193.4	3.5	19.9379	0.280	1.4	ug/L	72	Standard
|	Kr	83	57.0	6.3				ug/L	63	Standard
|	Y	89	487164.4	2.0				ug/L	532199	Standard
|	Rh	103	424941.7	1.2				ug/L	467132	Standard
|	Cd	111	60798.1	1.1	20.2031	0.148	0.7	ug/L	298	Standard
|	Cd	114	153099.7	0.9	20.1948	0.111	0.6	ug/L	39	Standard
>	In	115	421916.6	0.4				ug/L	453861	Standard
>	Tb	159	548377.0	1.5				ug/L	578005	Standard
|	Ho	165	564513.2	1.4				ug/L	598603	Standard
|	Pb	208	802072.1	0.6	20.5062	0.193	0.9	ug/L	607	Standard
|	Bi	209	325643.7	0.1				ug/L	350942	Standard
|	Th	232	403813.1	1.4				ug/L	438613	Standard
|	Cr-1	52	17106.9	2.1	19.7046	0.155	0.8	ug/L	182	KED
|	Cr-1	53	2118.8	3.1	19.9929	0.631	3.2	ug/L	22	KED
>	Ge-1	72	9049.9	2.0				ug/L	9326	KED
|	As-2	75	1075.0	2.1	20.0896	0.464	2.3	ug/L	2	KED
|	Y-1	89	16145.8	1.6				ug/L	16427	KED
|	Rh-1	103	92174.8	1.1				ug/L	95999	KED
|	Cd-1	111	4366.0	1.2	20.0795	0.547	2.7	ug/L	2	KED
|	Cd-1	114	11037.8	1.2	19.7737	0.680	3.4	ug/L	5	KED
>	In-1	115	10488.2	2.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.519
|	Cr	52	101.463	
|	Cr	53	101.682	
>	Ge	72		94.173
|	As	75	103.858	
|	As-1	75	102.511	
|	Se	77	103.263	
	Se	78	105.013	
	Br	79		
	Se	82	99.689	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	101.015	

Sample ID: QC Std 7

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Cd	114	100.974	
In	115		92.962
Tb	159		94.874
Ho	165		
Pb	208	102.531	
Bi	209		
Th	232		
Cr-1	52	98.523	
Cr-1	53	99.964	
Ge-1	72		97.039
As-2	75	100.448	
Y-1	89		
Rh-1	103		
Cd-1	111	100.397	
Cd-1	114	98.868	
In-1	115		99.014

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 15:53:08

Report Date/Time: Monday, September 05, 2022 08:08:43

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	380291.3	1.8				ug/L	404154	Standard
|	Cr	52	9012.2	2.5	0.0455	0.006	14.3	ug/L	9082	Standard
|	Cr	53	591.3	4.8	0.0342	0.022	64.6	ug/L	586	Standard
>	Ge	72	242296.1	2.7				ug/L	253733	Standard
|	As	75	3761.9	0.1	0.0709	0.082	115.0	ug/L	3853	Standard
|	As-1	75	-93.3	39.1	-0.0219	0.027	120.9	ug/L	-67	Standard
|	Se	77	95.0	1.8	-0.0810	0.031	37.7	ug/L	107	Standard
|	Se	78	4587.7	1.2	0.3361	0.273	81.2	ug/L	4705	Standard
|	Br	79	200.3	10.3				ug/L	138	Standard
|	Se	82	55.0	4.8	-0.0847	0.007	8.4	ug/L	72	Standard
|	Kr	83	55.7	12.6				ug/L	63	Standard
|	Y	89	497753.0	1.3				ug/L	532199	Standard
|	Rh	103	428337.6	1.7				ug/L	467132	Standard
|	Cd	111	278.7	2.7	0.0004	0.003	829.2	ug/L	298	Standard
|	Cd	114	56.9	15.6	0.0028	0.001	41.0	ug/L	39	Standard
>	In	115	422450.7	0.7				ug/L	453861	Standard
>	Tb	159	552102.6	0.6				ug/L	578005	Standard
|	Ho	165	565677.2	0.9				ug/L	598603	Standard
|	Pb	208	810.3	4.3	0.0059	0.001	13.7	ug/L	607	Standard
|	Bi	209	327525.5	0.8				ug/L	350942	Standard
|	Th	232	406064.3	0.5				ug/L	438613	Standard
|	Cr-1	52	150.0	8.1	-0.0335	0.011	33.1	ug/L	182	KED
|	Cr-1	53	22.3	11.3	0.0091	0.024	263.3	ug/L	22	KED
>	Ge-1	72	9198.6	1.7				ug/L	9326	KED
|	As-2	75	2.3	49.5	0.0068	0.022	317.6	ug/L	2	KED
|	Y-1	89	16367.7	0.6				ug/L	16427	KED
|	Rh-1	103	93548.3	0.2				ug/L	95999	KED
|	Cd-1	111	2.3	49.5	0.0013	0.005	382.0	ug/L	2	KED
|	Cd-1	114	4.0	24.8	-0.0015	0.002	111.4	ug/L	5	KED
>	In-1	115	10750.1	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.096
|	Cr	52		
|	Cr	53		
>	Ge	72		95.492
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, September 05, 2022 08:08:43

Cd	114	
In	115	93.079
Tb	159	95.519
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.634
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	101.488

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cL 10X

Sample Date/Time: Thursday, September 01, 2022 15:57:48

Report Date/Time: Monday, September 05, 2022 08:08:46

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cL 10X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	360453.0	3.0				ug/L	404154	Standard
|	Cr	52	9933.1	3.5	0.1892	0.021	11.4	ug/L	9082	Standard
|	Cr	53	809.0	1.5	0.2597	0.032	12.5	ug/L	586	Standard
[>	Ge	72	212021.6	2.1				ug/L	253733	Standard
|	As	75	3994.8	0.4	0.7426	0.072	9.7	ug/L	3853	Standard
|	As-1	75	189.7	10.2	0.2170	0.019	8.6	ug/L	-67	Standard
|	Se	77	97.3	11.9	0.1028	0.150	146.1	ug/L	107	Standard
|	Se	78	4560.4	0.7	2.5096	0.264	10.5	ug/L	4705	Standard
|	Br	79	1529.1	2.4				ug/L	138	Standard
|	Se	82	67.0	6.5	0.0509	0.021	41.4	ug/L	72	Standard
|	Kr	83	58.7	11.1				ug/L	63	Standard
|	Y	89	438164.6	1.9				ug/L	532199	Standard
|	Rh	103	371139.4	1.9				ug/L	467132	Standard
|	Cd	111	227.7	7.4	-0.0065	0.005	79.9	ug/L	298	Standard
|	Cd	114	35.1	28.1	0.0005	0.001	288.8	ug/L	39	Standard
[>	In	115	372621.4	1.5				ug/L	453861	Standard
[>	Tb	159	482380.6	0.8				ug/L	578005	Standard
|	Ho	165	496166.7	0.3				ug/L	598603	Standard
|	Pb	208	1333.0	5.3	0.0240	0.002	8.1	ug/L	607	Standard
|	Bi	209	282061.0	0.3				ug/L	350942	Standard
|	Th	232	357883.6	0.8				ug/L	438613	Standard
|	Cr-1	52	248.3	1.4	0.1239	0.003	2.4	ug/L	182	KED
|	Cr-1	53	28.3	25.5	0.1068	0.077	72.4	ug/L	22	KED
[>	Ge-1	72	7948.9	0.5				ug/L	9326	KED
|	As-2	75	14.7	7.9	0.2763	0.026	9.5	ug/L	2	KED
|	Y-1	89	14093.9	0.6				ug/L	16427	KED
|	Rh-1	103	81093.2	0.9				ug/L	95999	KED
|	Cd-1	111	4.7	32.7	0.0150	0.008	50.8	ug/L	2	KED
|	Cd-1	114	3.4	108.5	-0.0016	0.008	481.4	ug/L	5	KED
[>	In-1	115	9300.8	1.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		89.187
|	Cr	52		
|	Cr	53		
[>	Ge	72		83.561
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05cL 10X

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Cd	114	
In	115	82.100
Tb	159	83.456
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	85.233
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	87.805

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cMS 2X

Sample Date/Time: Thursday, September 01, 2022 16:02:20

Report Date/Time: Monday, September 05, 2022 08:08:48

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMS 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	450453.9	1.9				ug/L	404154	Standard
|	Cr	52	511534.6	2.6	41.3917	0.382	0.9	ug/L	9082	Standard
|	Cr	53	58279.0	2.0	41.7152	0.068	0.2	ug/L	586	Standard
[>	Ge	72	238368.5	2.1				ug/L	253733	Standard
|	As	75	63382.5	1.7	50.8377	0.694	1.4	ug/L	3853	Standard
|	As-1	75	63503.8	2.3	49.8515	0.906	1.8	ug/L	-67	Standard
|	Se	77	4300.3	1.7	48.4449	0.678	1.4	ug/L	107	Standard
|	Se	78	18226.3	1.1	48.9294	0.676	1.4	ug/L	4705	Standard
|	Br	79	4950.9	1.6				ug/L	138	Standard
|	Se	82	7233.8	3.3	45.8274	1.352	3.0	ug/L	72	Standard
|	Kr	83	56.3	11.8				ug/L	63	Standard
|	Y	89	491130.7	2.5				ug/L	532199	Standard
|	Rh	103	411093.4	1.4				ug/L	467132	Standard
|	Cd	111	140091.5	0.5	48.2194	0.334	0.7	ug/L	298	Standard
|	Cd	114	355491.7	0.6	48.4484	0.298	0.6	ug/L	39	Standard
[>	In	115	408431.7	1.0				ug/L	453861	Standard
[>	Tb	159	539473.8	0.4				ug/L	578005	Standard
|	Ho	165	555020.5	0.6				ug/L	598603	Standard
|	Pb	208	1855727.0	0.4	48.2437	0.343	0.7	ug/L	607	Standard
|	Bi	209	307021.9	0.8				ug/L	350942	Standard
|	Th	232	399664.3	0.6				ug/L	438613	Standard
|	Cr-1	52	40488.3	0.5	49.1309	0.577	1.2	ug/L	182	KED
|	Cr-1	53	4975.2	2.2	49.4464	1.730	3.5	ug/L	22	KED
[>	Ge-1	72	8644.6	1.4				ug/L	9326	KED
|	As-2	75	2538.6	1.3	49.7203	1.329	2.7	ug/L	2	KED
|	Y-1	89	15742.3	0.5				ug/L	16427	KED
|	Rh-1	103	87326.8	1.0				ug/L	95999	KED
|	Cd-1	111	10110.2	0.7	46.7943	0.438	0.9	ug/L	2	KED
|	Cd-1	114	26241.4	1.1	47.3009	0.371	0.8	ug/L	5	KED
[>	In-1	115	10420.6	0.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		111.456
|	Cr	52		
|	Cr	53		
[>	Ge	72		93.944
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05cMS 2X

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Cd	114	
In	115	89.990
Tb	159	93.334
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	92.693
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.376

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cMSD 2X

Sample Date/Time: Thursday, September 01, 2022 16:06:53

Report Date/Time: Monday, September 05, 2022 08:08:50

Method File: C:\NexlONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220901B\08-238-05cMSD 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	454869.6	1.5				ug/L	404154	Standard
|	Cr	52	526057.2	2.1	42.1712	0.476	1.1	ug/L	9082	Standard
|	Cr	53	60326.1	2.0	42.7732	0.500	1.2	ug/L	586	Standard
[>	Ge	72	236984.4	2.1				ug/L	253733	Standard
|	As	75	64395.6	1.9	52.0148	0.121	0.2	ug/L	3853	Standard
|	As-1	75	65064.2	2.2	51.3689	0.358	0.7	ug/L	-87	Standard
|	Se	77	4366.0	3.2	49.4858	0.872	1.8	ug/L	107	Standard
|	Se	78	18602.4	2.2	50.6487	1.521	3.0	ug/L	4705	Standard
|	Br	79	5609.4	1.5				ug/L	138	Standard
|	Se	82	7630.7	1.6	48.6510	0.293	0.6	ug/L	72	Standard
|	Kr	83	51.0	5.9				ug/L	63	Standard
|	Y	89	490174.5	1.7				ug/L	532199	Standard
|	Rh	103	408506.1	1.1				ug/L	467132	Standard
|	Cd	111	144362.9	0.7	49.5535	0.509	1.0	ug/L	298	Standard
|	Cd	114	365785.2	0.1	49.7120	0.173	0.3	ug/L	39	Standard
[>	In	115	409568.0	0.4				ug/L	453861	Standard
[>	Tb	159	543812.3	0.2				ug/L	578005	Standard
|	Ho	165	554450.1	0.2				ug/L	598603	Standard
|	Pb	208	1927648.5	0.2	49.7135	0.141	0.3	ug/L	607	Standard
|	Bi	209	307248.8	0.9				ug/L	350942	Standard
|	Th	232	398397.9	0.5				ug/L	438613	Standard
|	Cr-1	52	41553.0	0.4	50.0635	0.797	1.6	ug/L	182	KED
|	Cr-1	53	5127.6	0.5	50.5905	1.055	2.1	ug/L	22	KED
[>	Ge-1	72	8708.3	2.0				ug/L	9326	KED
|	As-2	75	2621.2	1.6	50.9579	0.622	1.2	ug/L	2	KED
|	Y-1	89	15941.2	0.7				ug/L	16427	KED
|	Rh-1	103	87684.3	0.7				ug/L	95999	KED
|	Cd-1	111	10428.1	1.5	48.7069	0.615	1.3	ug/L	2	KED
|	Cd-1	114	26976.6	0.9	49.0737	0.518	1.1	ug/L	5	KED
[>	In-1	115	10326.7	1.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		112.549
|	Cr	52		
|	Cr	53		
[>	Ge	72		93.399
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-238-05cMSD 2X

Report Date/Time: Monday, September 05, 2022 08:08:50

Cd	114	
In	115	90.241
Tb	159	94.084
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.376
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.490

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cPS 2X

Sample Date/Time: Thursday, September 01, 2022 16:11:25

Report Date/Time: Monday, September 05, 2022 08:08:51

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cPS 2X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	447619.4	1.1				ug/L	404154	Standard
|	Cr	52	430019.4	2.8	34.8857	0.613	1.8	ug/L	9082	Standard
|	Cr	53	49455.8	1.6	35.5541	0.205	0.6	ug/L	586	Standard
[>	Ge	72	238937.3	2.4				ug/L	253733	Standard
|	As	75	53797.9	2.3	42.5775	0.922	2.2	ug/L	3853	Standard
|	As-1	75	53243.0	2.6	41.7070	0.959	2.3	ug/L	-67	Standard
|	Se	77	3613.8	1.0	40.4307	0.590	1.5	ug/L	107	Standard
|	Se	78	16290.3	2.3	41.9234	0.072	0.2	ug/L	4705	Standard
|	Br	79	5099.6	3.7				ug/L	138	Standard
|	Se	82	6164.0	3.2	38.8873	0.598	1.5	ug/L	72	Standard
|	Kr	83	59.7	17.2				ug/L	63	Standard
|	Y	89	489753.0	1.2				ug/L	532199	Standard
[	Rh	103	410250.0	1.6				ug/L	467132	Standard
|	Cd	111	117025.3	0.8	40.1561	0.600	1.5	ug/L	298	Standard
|	Cd	114	296733.1	0.6	40.3294	0.335	0.8	ug/L	39	Standard
[>	In	115	409548.6	0.8				ug/L	453861	Standard
[>	Tb	159	539072.7	0.4				ug/L	578005	Standard
|	Ho	165	554070.5	0.3				ug/L	598603	Standard
|	Pb	208	1562008.4	0.6	40.6359	0.381	0.9	ug/L	607	Standard
|	Bi	209	309151.0	0.3				ug/L	350942	Standard
|	Th	232	399253.6	0.4				ug/L	438613	Standard
[	Cr-1	52	33593.1	1.3	40.5444	0.767	1.9	ug/L	182	KED
|	Cr-1	53	4095.9	1.3	40.4784	0.672	1.7	ug/L	22	KED
[>	Ge-1	72	8684.3	1.7				ug/L	9326	KED
|	As-2	75	2141.5	3.4	41.7335	1.101	2.6	ug/L	2	KED
|	Y-1	89	15739.0	0.6				ug/L	16427	KED
|	Rh-1	103	87562.9	1.6				ug/L	95999	KED
[	Cd-1	111	8542.6	0.8	39.6995	0.656	1.7	ug/L	2	KED
|	Cd-1	114	21897.0	1.7	39.6279	0.534	1.3	ug/L	5	KED
[>	In-1	115	10379.0	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		110.755
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.169
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: 08-238-05cPS 2X

Report Date/Time: Monday, September 05, 2022 08:08:51

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Cd	114	
In	115	90.237
Tb	159	93.264
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.119
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.984

Quantitative Analysis - Summary Report

Sample ID: 08-268-01c 2X

Sample Date/Time: Thursday, September 01, 2022 16:15:59

Report Date/Time: Monday, September 05, 2022 08:08:53

Method File: C:\NexlONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220901B\08-268-01c 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	534919.4	2.8				ug/L	404154	Standard
|	Cr	52	65956.7	3.5	3.7491	0.036	1.0	ug/L	9082	Standard
|	Cr	53	10201.3	3.5	5.7452	0.048	0.8	ug/L	586	Standard
[>	Ge	72	266981.1	3.6				ug/L	253733	Standard
|	As	75	6416.0	2.5	1.7953	0.063	3.5	ug/L	3853	Standard
|	As-1	75	3147.9	4.3	2.2550	0.109	4.8	ug/L	-67	Standard
|	Se	77	405.7	14.7	3.0089	0.503	16.7	ug/L	107	Standard
|	Se	78	5460.0	3.8	1.6130	0.298	18.5	ug/L	4705	Standard
|	Br	79	141243.8	2.6				ug/L	138	Standard
|	Se	82	665.3	6.4	3.3693	0.236	7.0	ug/L	72	Standard
|	Kr	83	71.3	10.6				ug/L	63	Standard
|	Y	89	586847.7	2.4				ug/L	532199	Standard
|	Rh	103	450729.3	1.4				ug/L	467132	Standard
|	Cd	111	439.5	5.1	0.0513	0.007	13.1	ug/L	298	Standard
|	Cd	114	123.9	7.6	0.0113	0.001	11.2	ug/L	39	Standard
[>	In	115	430172.3	0.7				ug/L	453861	Standard
[>	Tb	159	590788.2	1.3				ug/L	578005	Standard
|	Ho	165	607115.3	1.3				ug/L	598603	Standard
|	Pb	208	7247.4	1.7	0.1574	0.002	1.0	ug/L	607	Standard
|	Bi	209	310201.1	0.4				ug/L	350942	Standard
|	Th	232	440363.0	1.4				ug/L	438613	Standard
|	Cr-1	52	3999.2	1.3	4.4443	0.014	0.3	ug/L	182	KED
|	Cr-1	53	500.0	1.4	4.5593	0.064	1.4	ug/L	22	KED
[>	Ge-1	72	9059.9	1.5				ug/L	9326	KED
|	As-2	75	77.0	3.4	1.4038	0.063	4.5	ug/L	2	KED
|	Y-1	89	17941.3	0.9				ug/L	16427	KED
|	Rh-1	103	92134.2	0.6				ug/L	95999	KED
|	Cd-1	111	4.3	53.3	0.0100	0.010	101.1	ug/L	2	KED
|	Cd-1	114	9.0	37.0	0.0071	0.006	82.7	ug/L	5	KED
[>	In-1	115	10943.0	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		132.355
|	Cr	52		
|	Cr	53		
[>	Ge	72		105.221
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-01c 2X

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Cd	114	
In	115	94.781
Tb	159	102.212
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.146
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	103.309

Quantitative Analysis - Summary Report

Sample ID: 08-268-02c 2X

Sample Date/Time: Thursday, September 01, 2022 16:20:31

Report Date/Time: Monday, September 05, 2022 08:08:56

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02c 2X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	493316.5	2.5				ug/L	404154	Standard
|	Cr	52	27597.0	3.6	1.2443	0.023	1.9	ug/L	9082	Standard
|	Cr	53	5716.8	6.3	3.3039	0.148	4.5	ug/L	586	Standard
>	Ge	72	248598.0	2.6				ug/L	253733	Standard
|	As	75	8763.0	4.1	4.0670	0.145	3.6	ug/L	3853	Standard
|	As-1	75	5536.7	6.5	4.2104	0.178	4.2	ug/L	-67	Standard
|	Se	77	550.0	3.3	4.9226	0.055	1.1	ug/L	107	Standard
|	Se	78	5520.1	1.1	3.0985	0.293	9.5	ug/L	4705	Standard
|	Br	79	171574.7	2.8				ug/L	138	Standard
|	Se	82	708.0	3.4	3.9099	0.045	1.2	ug/L	72	Standard
|	Kr	83	89.0	3.0				ug/L	63	Standard
|	Y	89	528626.5	2.4				ug/L	532199	Standard
|	Rh	103	418795.5	2.6				ug/L	467132	Standard
|	Cd	111	348.2	10.6	0.0270	0.012	43.2	ug/L	298	Standard
|	Cd	114	11.5	108.6	-0.0032	0.002	53.2	ug/L	39	Standard
>	In	115	410084.3	0.9				ug/L	453861	Standard
>	Tb	159	558846.2	0.7				ug/L	578005	Standard
|	Ho	165	572699.1	0.6				ug/L	598603	Standard
|	Pb	208	7035.0	1.6	0.1619	0.004	2.3	ug/L	607	Standard
|	Bi	209	290074.8	0.1				ug/L	350942	Standard
|	Th	232	404088.8	0.5				ug/L	438613	Standard
|	Cr-1	52	1203.4	0.6	1.2329	0.007	0.6	ug/L	182	KED
|	Cr-1	53	160.3	13.7	1.3685	0.217	15.9	ug/L	22	KED
>	Ge-1	72	8814.1	1.1				ug/L	9326	KED
|	As-2	75	161.0	0.6	3.0581	0.029	0.9	ug/L	2	KED
|	Y-1	89	16650.7	0.5				ug/L	16427	KED
|	Rh-1	103	87799.0	1.1				ug/L	95999	KED
|	Cd-1	111	2.3	89.2	0.0016	0.010	614.4	ug/L	2	KED
|	Cd-1	114	4.2	50.4	-0.0010	0.004	366.8	ug/L	5	KED
>	In-1	115	10590.1	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		122.062
|	Cr	52		
|	Cr	53		
>	Ge	72		97.976
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-02c 2X

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Cd	114	
In	115	90.355
Tb	159	96.685
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.510
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.976

Quantitative Analysis - Summary Report

Sample ID: 08-268-03c 2X

Sample Date/Time: Thursday, September 01, 2022 16:25:03

Report Date/Time: Monday, September 05, 2022 08:08:59

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03c 2X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	481590.8	2.3				ug/L	404154	Standard
|	Cr	52	20742.1	2.3	0.7662	0.027	3.5	ug/L	9082	Standard
|	Cr	53	2884.3	1.1	1.4805	0.023	1.6	ug/L	586	Standard
>	Ge	72	254803.2	2.0				ug/L	253733	Standard
|	As	75	7157.1	2.8	2.6159	0.050	1.9	ug/L	3853	Standard
|	As-1	75	3140.7	3.2	2.3533	0.027	1.1	ug/L	-67	Standard
|	Se	77	174.3	3.2	0.7228	0.092	12.7	ug/L	107	Standard
|	Se	78	5231.6	3.7	1.6772	0.317	18.9	ug/L	4705	Standard
|	Br	79	44284.2	2.7				ug/L	138	Standard
|	Se	82	235.3	12.4	0.9756	0.149	15.2	ug/L	72	Standard
|	Kr	83	53.0	3.8				ug/L	63	Standard
|	Y	89	550145.3	1.4				ug/L	532199	Standard
|	Rh	103	439241.9	2.0				ug/L	467132	Standard
|	Cd	111	310.9	10.6	0.0100	0.011	112.6	ug/L	298	Standard
|	Cd	114	50.3	43.2	0.0018	0.003	155.4	ug/L	39	Standard
>	In	115	427257.7	0.6				ug/L	453861	Standard
>	Tb	159	570196.4	0.2				ug/L	578005	Standard
|	Ho	165	588274.2	0.9				ug/L	598603	Standard
|	Pb	208	3400.8	1.0	0.0689	0.001	1.4	ug/L	607	Standard
|	Bi	209	308153.5	0.8				ug/L	350942	Standard
|	Th	232	419986.0	1.1				ug/L	438613	Standard
|	Cr-1	52	863.4	1.9	0.7683	0.032	4.2	ug/L	182	KED
|	Cr-1	53	100.7	11.2	0.7296	0.114	15.6	ug/L	22	KED
>	Ge-1	72	9344.1	1.5				ug/L	9326	KED
|	As-2	75	130.0	11.5	2.3192	0.252	10.9	ug/L	2	KED
|	Y-1	89	17301.8	1.4				ug/L	16427	KED
|	Rh-1	103	94028.1	0.9				ug/L	95999	KED
|	Cd-1	111	3.7	41.7	0.0067	0.007	98.3	ug/L	2	KED
|	Cd-1	114	2.8	18.9	-0.0038	0.001	23.9	ug/L	5	KED
>	In-1	115	11187.7	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		119.160
|	Cr	52		
|	Cr	53		
>	Ge	72		100.422
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-03c 2X

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Cd	114	
In	115	94.138
Tb	159	98.649
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.193
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.619

Quantitative Analysis - Summary Report

Sample ID: 08-268-04c 2X

Sample Date/Time: Thursday, September 01, 2022 16:29:34

Report Date/Time: Monday, September 05, 2022 08:09:00

Method File: C:\NexIONData_kmckinney\MethodX220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSetX220901B\08-268-04c 2X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	471096.2	3.3				ug/L	404154	Standard
|	Cr	52	24243.2	3.7	1.0780	0.029	2.7	ug/L	9082	Standard
|	Cr	53	6846.3	2.3	4.2677	0.101	2.4	ug/L	586	Standard
>	Ge	72	256375.1	2.2				ug/L	253733	Standard
|	As	75	5317.5	4.0	1.1266	0.127	11.2	ug/L	3853	Standard
|	As-1	75	1726.3	6.1	1.3079	0.060	4.6	ug/L	-67	Standard
|	Se	77	325.3	4.9	2.3281	0.099	4.3	ug/L	107	Standard
|	Se	78	5356.3	3.3	1.9860	0.478	24.1	ug/L	4705	Standard
|	Br	79	103544.0	2.1				ug/L	138	Standard
|	Se	82	477.7	4.6	2.4092	0.107	4.5	ug/L	72	Standard
|	Kr	83	55.0	9.6				ug/L	63	Standard
|	Y	89	553444.4	1.1				ug/L	532199	Standard
|	Rh	103	442764.7	2.7				ug/L	467132	Standard
|	Cd	111	299.6	3.8	0.0071	0.005	67.1	ug/L	298	Standard
|	Cd	114	58.7	47.8	0.0030	0.004	122.3	ug/L	39	Standard
>	In	115	423449.8	1.9				ug/L	453861	Standard
>	Tb	159	571531.0	0.6				ug/L	578005	Standard
|	Ho	165	590529.6	0.2				ug/L	598603	Standard
|	Pb	208	3698.9	2.2	0.0761	0.002	3.2	ug/L	607	Standard
|	Bi	209	307018.1	0.7				ug/L	350942	Standard
|	Th	232	419715.4	0.1				ug/L	438613	Standard
|	Cr-1	52	1107.0	1.2	1.0596	0.025	2.3	ug/L	182	KED
|	Cr-1	53	135.7	5.2	1.0683	0.058	5.4	ug/L	22	KED
>	Ge-1	72	9220.3	1.2				ug/L	9326	KED
|	As-2	75	46.0	14.3	0.8086	0.119	14.7	ug/L	2	KED
|	Y-1	89	17353.5	0.7				ug/L	16427	KED
|	Rh-1	103	92618.3	0.7				ug/L	95999	KED
|	Cd-1	111	1.7	91.7	-0.0020	0.007	329.9	ug/L	2	KED
|	Cd-1	114	11.6	19.0	0.0110	0.004	34.3	ug/L	5	KED
>	In-1	115	11170.2	1.9				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		116.564
|	Cr	52		
|	Cr	53		
>	Ge	72		101.041
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-04c 2X

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—	Cd	114	
↳	In	115	93.299
↳	Tb	159	98.880
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	98.866
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	105.454

Quantitative Analysis - Summary Report

Sample ID: 08-268-05c 2X

Sample Date/Time: Thursday, September 01, 2022 16:34:06

Report Date/Time: Monday, September 05, 2022 08:09:02

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05c 2X.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	495226.3	1.7				ug/L	404154	Standard
|	Cr	52	37583.7	2.0	1.9865	0.013	0.7	ug/L	9082	Standard
|	Cr	53	5885.5	3.9	3.4016	0.089	2.6	ug/L	586	Standard
>	Ge	72	261229.6	2.3				ug/L	253733	Standard
|	As	75	5273.4	1.4	1.0155	0.088	8.7	ug/L	3853	Standard
|	As-1	75	1368.6	3.2	1.0292	0.037	3.6	ug/L	-67	Standard
|	Se	77	201.0	8.0	0.9592	0.214	22.3	ug/L	107	Standard
|	Se	78	5139.3	1.4	0.9582	0.206	21.5	ug/L	4705	Standard
|	Br	79	47312.9	2.2				ug/L	138	Standard
|	Se	82	249.7	5.4	1.0256	0.044	4.3	ug/L	72	Standard
|	Kr	83	63.3	6.6				ug/L	63	Standard
|	Y	89	554337.7	1.3				ug/L	532199	Standard
|	Rh	103	441684.4	1.6				ug/L	467132	Standard
|	Cd	111	325.3	4.0	0.0147	0.004	26.5	ug/L	298	Standard
|	Cd	114	24.3	65.1	-0.0016	0.002	131.9	ug/L	39	Standard
>	In	115	427036.8	0.4				ug/L	453861	Standard
>	Tb	159	571720.3	1.0				ug/L	578005	Standard
|	Ho	165	581362.2	1.5				ug/L	598603	Standard
|	Pb	208	2227.4	3.1	0.0399	0.002	5.3	ug/L	607	Standard
|	Bi	209	309571.7	0.6				ug/L	350942	Standard
|	Th	232	421215.0	0.5				ug/L	438613	Standard
|	Cr-1	52	2153.5	1.5	2.2289	0.037	1.7	ug/L	182	KED
|	Cr-1	53	275.7	3.7	2.3506	0.086	3.7	ug/L	22	KED
>	Ge-1	72	9318.7	0.9				ug/L	9326	KED
|	As-2	75	48.0	14.6	0.8360	0.125	14.9	ug/L	2	KED
|	Y-1	89	17601.2	1.3				ug/L	16427	KED
|	Rh-1	103	93192.0	1.1				ug/L	95999	KED
|	Cd-1	111	3.7	15.7	0.0068	0.003	38.7	ug/L	2	KED
|	Cd-1	114	1.4	135.5	-0.0061	0.003	53.7	ug/L	5	KED
>	In-1	115	11140.8	0.9				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		122.534
|	Cr	52		
|	Cr	53		
>	Ge	72		102.954
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-268-05c 2X

Report Date/Time: Monday, September 05, 2022 08:09:02

|	Cd	114	
[>	In	115	94.090
[>	Tb	159	98.913
---	Ho	165	
---	Pb	208	
---	Bi	209	
---	Th	232	
---	Cr-1	52	
---	Cr-1	53	
>	Ge-1	72	99.921
[	As-2	75	
---	Y-1	89	
---	Rh-1	103	
---	Cd-1	111	
---	Cd-1	114	
>	In-1	115	105.176

Quantitative Analysis - Summary Report

Sample ID: 08-268-06c 2X

Sample Date/Time: Thursday, September 01, 2022 16:38:38

Report Date/Time: Monday, September 05, 2022 08:09:04

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06c 2X.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	495622.6	1.8				ug/L	404154	Standard
|	Cr	52	24970.8	3.0	1.0377	0.024	2.4	ug/L	9082	Standard
|	Cr	53	3172.0	4.1	1.6136	0.048	3.0	ug/L	586	Standard
>	Ge	72	262413.9	2.6				ug/L	253733	Standard
|	As	75	6665.5	0.9	2.0733	0.112	5.4	ug/L	3853	Standard
|	As-1	75	2564.5	2.5	1.8766	0.036	1.9	ug/L	-67	Standard
|	Se	77	164.7	7.0	0.5652	0.095	16.9	ug/L	107	Standard
|	Se	78	5259.0	0.8	1.2708	0.299	23.5	ug/L	4705	Standard
|	Br	79	33870.8	2.2				ug/L	138	Standard
|	Se	82	207.7	10.7	0.7741	0.097	12.6	ug/L	72	Standard
|	Kr	83	54.0	20.6				ug/L	63	Standard
|	Y	89	566410.4	1.2				ug/L	532199	Standard
|	Rh	103	447151.5	1.5				ug/L	467132	Standard
|	Cd	111	350.1	4.9	0.0222	0.005	24.5	ug/L	298	Standard
|	Cd	114	40.7	49.1	0.0005	0.003	476.5	ug/L	39	Standard
>	In	115	429756.9	0.5				ug/L	453861	Standard
>	Tb	159	574882.8	1.2				ug/L	578005	Standard
|	Ho	165	590455.0	0.7				ug/L	598603	Standard
|	Pb	208	1947.4	1.2	0.0328	0.000	0.8	ug/L	607	Standard
|	Bi	209	314389.9	0.7				ug/L	350942	Standard
|	Th	232	422719.7	1.0				ug/L	438613	Standard
|	Cr-1	52	1235.1	1.1	1.1911	0.037	3.1	ug/L	182	KED
|	Cr-1	53	148.3	5.6	1.1724	0.079	6.7	ug/L	22	KED
>	Ge-1	72	9319.4	1.6				ug/L	9326	KED
|	As-2	75	109.7	5.2	1.9583	0.132	6.7	ug/L	2	KED
|	Y-1	89	17904.5	1.4				ug/L	16427	KED
|	Rh-1	103	95091.1	1.3				ug/L	95999	KED
|	Cd-1	111	2.0	0.0	-0.0005	0.000	20.8	ug/L	2	KED
|	Cd-1	114	3.7	36.0	-0.0023	0.002	93.7	ug/L	5	KED
>	In-1	115	11217.7	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		122.632
|	Cr	52		
|	Cr	53		
>	Ge	72		103.421
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: 08-268-06c 2X

Report Date/Time: Monday, September 05, 2022 08:09:04

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Cd	114	
In	115	94.689
Tb	159	99.460
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.928
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.902

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 16:43:09

Report Date/Time: Monday, September 05, 2022 08:09:06

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	373636.1	1.9				ug/L	404154	Standard
|	Cr	52	406431.7	3.0	39.6114	0.478	1.2	ug/L	9082	Standard
|	Cr	53	46075.2	2.8	39.7367	0.697	1.8	ug/L	586	Standard
[>	Ge	72	236601.0	3.0				ug/L	253733	Standard
|	As	75	51013.4	2.7	40.6477	1.126	2.8	ug/L	3853	Standard
|	As-1	75	50371.8	2.3	39.8588	1.034	2.6	ug/L	-67	Standard
|	Se	77	3536.1	0.2	39.9559	1.315	3.3	ug/L	107	Standard
|	Se	78	15806.1	2.9	40.7677	0.731	1.8	ug/L	4705	Standard
|	Br	79	2015.8	11.0				ug/L	138	Standard
|	Se	82	5933.9	1.2	37.8102	0.714	1.9	ug/L	72	Standard
|	Kr	83	49.7	8.1				ug/L	63	Standard
|	Y	89	476925.8	1.5				ug/L	532199	Standard
|	Rh	103	418336.6	2.3				ug/L	467132	Standard
|	Cd	111	119244.1	0.8	39.8287	0.309	0.8	ug/L	298	Standard
|	Cd	114	297818.3	0.5	39.4024	0.251	0.6	ug/L	39	Standard
[>	In	115	420707.1	0.4				ug/L	453861	Standard
[>	Tb	159	548431.1	0.5				ug/L	578005	Standard
|	Ho	165	556812.3	1.0				ug/L	598603	Standard
|	Pb	208	1560786.0	0.5	39.9113	0.383	1.0	ug/L	607	Standard
|	Bi	209	322725.0	0.6				ug/L	350942	Standard
|	Th	232	400048.4	0.4				ug/L	438613	Standard
|	Cr-1	52	33603.1	1.2	37.7294	1.175	3.1	ug/L	182	KED
|	Cr-1	53	4091.3	2.1	37.6019	0.553	1.5	ug/L	22	KED
[>	Ge-1	72	9333.7	1.9				ug/L	9326	KED
|	As-2	75	2194.5	1.1	39.8045	1.071	2.7	ug/L	2	KED
|	Y-1	89	16453.8	2.1				ug/L	16427	KED
|	Rh-1	103	93778.5	1.7				ug/L	95999	KED
|	Cd-1	111	8669.6	2.8	38.4434	0.964	2.5	ug/L	2	KED
|	Cd-1	114	22340.2	0.7	38.5866	0.682	1.8	ug/L	5	KED
[>	In-1	115	10876.3	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.449
|	Cr	52	99.028	
|	Cr	53	99.342	
[>	Ge	72		93.248
|	As	75	101.619	
|	As-1	75	99.647	
	Se	77	99.890	
	Se	78	101.919	
	Br	79		
	Se	82	94.525	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.572	

Sample ID: QC Std 6

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Cd	114	98.506	
In	115		92.695
Tb	159		94.883
Ho	165		
Pb	208	99.778	
Bi	209		
Th	232		
Cr-1	52	94.324	
Cr-1	53	94.005	
Ge-1	72		100.082
As-2	75	99.511	
Y-1	89		
Rh-1	103		
Cd-1	111	96.109	
Cd-1	114	96.466	
In-1	115		102.679

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 16:47:41

Report Date/Time: Monday, September 05, 2022 08:09:08

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	364294.3	1.7				ug/L	404154	Standard
|	Cr	52	209444.0	2.2	20.5438	0.117	0.6	ug/L	9082	Standard
|	Cr	53	23597.8	2.2	20.6491	0.144	0.7	ug/L	586	Standard
>	Ge	72	234946.3	2.4				ug/L	253733	Standard
|	As	75	27349.6	3.7	20.5178	0.328	1.6	ug/L	3853	Standard
|	As-1	75	25088.0	3.3	20.0067	0.247	1.2	ug/L	-67	Standard
|	Se	77	1775.1	1.9	19.6179	0.499	2.5	ug/L	107	Standard
|	Se	78	10150.9	2.3	20.8313	0.053	0.3	ug/L	4705	Standard
|	Br	79	1017.7	6.7				ug/L	138	Standard
|	Se	82	2970.3	2.4	18.8472	0.675	3.6	ug/L	72	Standard
|	Kr	83	49.0	11.4				ug/L	63	Standard
|	Y	89	471307.2	1.3				ug/L	532199	Standard
|	Rh	103	409097.4	0.7				ug/L	467132	Standard
|	Cd	111	59810.6	0.3	20.1866	0.143	0.7	ug/L	298	Standard
|	Cd	114	150914.0	0.6	20.2189	0.209	1.0	ug/L	39	Standard
>	In	115	415415.8	0.5				ug/L	453861	Standard
>	Tb	159	537916.7	0.9				ug/L	578005	Standard
|	Ho	165	549778.8	1.5				ug/L	598603	Standard
|	Pb	208	781147.6	0.1	20.3587	0.194	1.0	ug/L	607	Standard
|	Bi	209	318871.2	0.5				ug/L	350942	Standard
|	Th	232	395335.7	0.7				ug/L	438613	Standard
|	Cr-1	52	17126.3	0.4	19.2262	0.224	1.2	ug/L	182	KED
|	Cr-1	53	2093.5	1.8	19.2463	0.342	1.8	ug/L	22	KED
>	Ge-1	72	9284.0	1.2				ug/L	9326	KED
|	As-2	75	1109.4	2.8	20.2095	0.720	3.6	ug/L	2	KED
|	Y-1	89	16514.2	0.9				ug/L	16427	KED
|	Rh-1	103	91535.0	1.5				ug/L	95999	KED
|	Cd-1	111	4424.4	0.3	19.8742	0.338	1.7	ug/L	2	KED
|	Cd-1	114	11163.4	0.4	19.5296	0.293	1.5	ug/L	5	KED
>	In-1	115	10736.0	1.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		90.138
|	Cr	52	102.719	
|	Cr	53	103.246	
>	Ge	72		92.596
|	As	75	102.589	
|	As-1	75	100.034	
|	Se	77	98.089	
|	Se	78	104.156	
|	Br	79		
|	Se	82	94.236	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	100.933	

Sample ID: QC Std 7

Report Date/Time: Monday, September 05, 2022 08:09:08

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Cd	114	101.094	
In	115		91.529
Tb	159		93.064
Ho	165		
Pb	208	101.794	
Bi	209		
Th	232		
Cr-1	52	96.131	
Cr-1	53	96.231	
Ge-1	72		99.549
As-2	75	101.048	
Y-1	89		
Rh-1	103		
Cd-1	111	99.371	
Cd-1	114	97.648	
In-1	115		101.354

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 16:52:14

Report Date/Time: Monday, September 05, 2022 08:09:10

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	367791.2	1.4				ug/L	404154	Standard
|	Cr	52	8858.4	1.7	0.0601	0.019	31.1	ug/L	9082	Standard
|	Cr	53	666.0	7.1	0.1176	0.040	34.0	ug/L	586	Standard
>	Ge	72	235698.9	3.0				ug/L	253733	Standard
|	As	75	3743.6	2.6	0.1425	0.065	45.5	ug/L	3853	Standard
|	As-1	75	-77.9	52.8	-0.0117	0.031	263.7	ug/L	-67	Standard
|	Se	77	98.7	13.8	-0.0097	0.143	1476.5	ug/L	107	Standard
|	Se	78	4579.4	3.2	0.7505	0.349	46.5	ug/L	4705	Standard
|	Br	79	767.4	2.3				ug/L	138	Standard
|	Se	82	67.0	7.5	0.0035	0.043	1214.1	ug/L	72	Standard
|	Kr	83	48.3	11.4				ug/L	63	Standard
|	Y	89	477276.3	1.8				ug/L	532199	Standard
|	Rh	103	411641.4	2.3				ug/L	467132	Standard
|	Cd	111	289.8	1.6	0.0049	0.002	42.9	ug/L	298	Standard
|	Cd	114	65.1	16.9	0.0039	0.001	36.1	ug/L	39	Standard
>	In	115	418708.6	0.6				ug/L	453861	Standard
>	Tb	159	542352.7	1.2				ug/L	578005	Standard
|	Ho	165	549162.3	0.4				ug/L	598603	Standard
|	Pb	208	824.7	4.4	0.0066	0.001	10.7	ug/L	607	Standard
|	Bi	209	320271.7	0.4				ug/L	350942	Standard
|	Th	232	395943.0	0.3				ug/L	438613	Standard
|	Cr-1	52	170.0	6.8	-0.0141	0.012	86.8	ug/L	182	KED
|	Cr-1	53	23.3	12.4	0.0142	0.024	168.2	ug/L	22	KED
>	Ge-1	72	9371.1	1.8				ug/L	9326	KED
|	As-2	75	3.0	33.3	0.0180	0.019	103.7	ug/L	2	KED
|	Y-1	89	16580.6	0.4				ug/L	16427	KED
|	Rh-1	103	93806.3	1.1				ug/L	95999	KED
|	Cd-1	111	2.7	21.7	0.0028	0.003	93.1	ug/L	2	KED
|	Cd-1	114	5.3	57.4	0.0007	0.005	771.5	ug/L	5	KED
>	In-1	115	10833.8	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		91.003
|	Cr	52		
|	Cr	53		
>	Ge	72		92.892
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, September 05, 2022 08:09:10

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Cd	114	
In	115	92.255
Tb	159	93.832
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.483
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	102.278

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,RR

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\09 September 2022\I220902W1.wszf

Creation Date: 9/2/2022 9:40:14 AM

Comment:

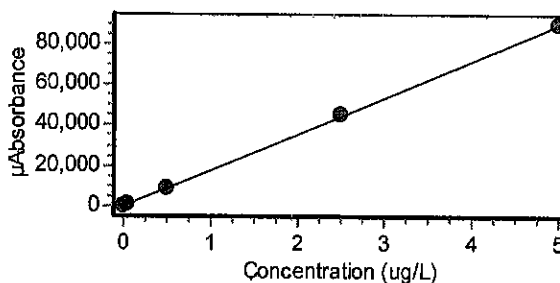
KOM
9-2-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	09/02/22 10:01:44 am	0.00000	21	101.97			N/A
Standard #1	STD	09/02/22 10:04:16 am	0.01000	183	6.10	-9.46%		N/A
Standard #2	STD	09/02/22 10:06:48 am	0.05000	881	1.39	-3.93%		N/A
Standard #3	STD	09/02/22 10:09:20 am	0.50000	9161	0.26	2.02%		N/A
Standard #4	STD	09/02/22 10:11:52 am	2.50000	45134	0.09	0.71%		N/A
Standard #5	STD	09/02/22 10:14:24 am	5.00000	89431	0.14	-0.20%		N/A

Calibration

Equation: Abs = 17917.537x + 20.611
 R2: 0.99997 RSE: 6.04%
 SEE: 236.4133
 Flags:



ICV	ICV	09/02/22 10:17:02 am	2.52040	45181	0.11			100.82
ICB	ICB	09/02/22 10:19:34 am	-0.00055	11	103.56			N/A
CCV	CCV	09/02/22 10:22:06 am	2.51900	45154	0.19			100.76
CCB	CCB	09/02/22 10:24:38 am	-0.00275	-29	24.55			N/A
MB0828F1	UNK	09/02/22 10:27:09 am	-0.00124	-2	65.69			N/A
SB0828F1	UNK	09/02/22 10:29:41 am	2.35020	42130	0.12			N/A
08-298-01c	UNK	09/02/22 10:32:13 am	-0.00349	-42	32.01			N/A
08-298-01c D	UNK	09/02/22 10:34:45 am	0.00110	40	130.65			N/A
08-298-01c L	UNK	09/02/22 10:38:28 am	-0.00834	-129	9.04			N/A
08-298-01c MS	UNK	09/02/22 10:41:01 am	2.34490	42036	0.21			N/A
08-298-01c MSD	UNK	09/02/22 10:43:33 am	2.38310	42720	0.15			N/A
08-298-02c	UNK	09/02/22 10:46:06 am	0.00082	35	41.63			N/A
08-268-01d	UNK	09/02/22 10:48:38 am	0.00355	84	35.39			N/A
08-268-02d	UNK	09/02/22 10:51:09 am	-0.00050	12	106.28			N/A
CCV	CCV	09/02/22 10:53:42 am	2.51310	45050	0.19			100.53
CCB	CCB	09/02/22 10:56:13 am	-0.00473	-64	4.55			N/A
08-268-03d	UNK	09/02/22 10:58:45 am	-0.00084	6	81.33			N/A
08-268-04d	UNK	09/02/22 11:01:17 am	0.00489	108	15.06			N/A
08-268-05d	UNK	09/02/22 11:03:50 am	0.00487	108	7.68			N/A
08-268-06d	UNK	09/02/22 11:06:22 am	0.00440	100	5.67			N/A
08-268-07d	UNK	09/02/22 11:08:55 am	0.00012	23	573.28			N/A
08-268-08d	UNK	09/02/22 11:11:27 am	-0.00193	-14	66.02			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
08-268-09d	UNK	09/02/22 11:13:59 am	0.00118	42	78.23			N/A
CCV	CCV	09/02/22 11:16:31 am	2.27640	40808	0.06			91.06
CCB	CCB	09/02/22 11:22:57 am	-0.00038	14	78.30			N/A
MB0902W1	UNK	09/02/22 11:25:28 am	0.00141	46	61.76			N/A
SB0902W1	UNK	09/02/22 11:28:00 am	2.23820	40124	0.15			N/A
08-268-02c	UNK	09/02/22 11:30:32 am	-0.00050	12	100.51			N/A
08-268-02cD	UNK	09/02/22 11:33:04 am	0.00018	24	369.22			N/A
08-268-02cL	UNK	09/02/22 11:35:37 am	-0.00258	-26	9.48			N/A
08-268-02cMS	UNK	09/02/22 11:38:09 am	2.23330	40036	0.13			N/A
08-268-02cMSD	UNK	09/02/22 11:40:42 am	2.20750	39574	0.11			N/A
08-268-02cPS	UNK	09/02/22 11:43:14 am	0.00251	66	10.14			N/A
08-268-01c	UNK	09/02/22 11:45:46 am	0.00193	55	30.08			N/A
08-268-03c	UNK	09/02/22 11:51:43 am	-0.00214	-18	33.83			N/A
CCV	CCV	09/02/22 11:54:15 am	2.28370	40940	0.06			91.35
CCB	CCB	09/02/22 11:56:47 am	-0.00709	-106	7.43			N/A
08-268-04c	UNK	09/02/22 11:59:18 am	0.00074	34	70.22			N/A
08-268-05c	UNK	09/02/22 12:01:50 pm	0.00199	56	28.42			N/A
08-268-06c	UNK	09/02/22 12:04:22 pm	0.00230	62	19.46			N/A
08-268-07c	UNK	09/02/22 12:06:55 pm	0.00066	32	91.03			N/A
08-268-08c	UNK	09/02/22 12:09:28 pm	0.00025	25	275.79			N/A
08-268-09c	UNK	09/02/22 12:12:00 pm	0.00228	62	20.39			N/A
08-268-01c	UNK	09/02/22 12:14:33 pm	0.00758	156	6.29			N/A
CCV	CCV	09/02/22 12:17:08 pm	2.29190	41086	0.05			91.68
CCB	CCB	09/02/22 12:20:03 pm	-0.00011	19	002.39			N/A

Dataset Report

9-5-22
lepr

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220902A\
 Report Date/Time: Monday, September 05, 2022 08:15:47

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - TTorch Alignment		06:01:18 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Torch Alignment.001	
SmartTune - Nebulizer Gas Flow S		06:04:14 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Nebulizer Gas Flow STD-KI	
SmartTune - AAutoLens STD/DRC		06:06:52 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\AutoLens STD-DRC.003	
SmartTune - KKED Mode AutoLens		06:11:22 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\KED Mode AutoLens.004	
SmartTune - CDaily Performance Ch		06:15:58 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Daily Performance Check.01	
SmartTune - MMass Calibration and f		06:19:00 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - MMass Calibration and f		06:21:11 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - MMass Calibration and f		06:23:22 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - MMass Calibration and f		06:25:33 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - MMass Calibration and f		06:27:44 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
	Sample	06:38:42 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.011	
	Sample	06:43:18 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.012	
	Sample	06:47:53 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.013	
	Sample	06:52:29 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.014	
	Blank	07:01:04 Fri 02-Se	Blank	C:\NexIONData_kmckinney\DataSet\X220902A\Blank.015	
	Standard 2	07:04:50 Fri 02-Se	Standard #2	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 2.016	
	Standard 3	07:08:36 Fri 02-Se	Standard #3	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 3.017	
	Standard 4	07:12:21 Fri 02-Se	Standard #4	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 4.018	
	Standard 5	07:16:07 Fri 02-Se	Standard #5	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 5.019	
	Standard 6	07:19:52 Fri 02-Se	Standard #6	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 6.020	
	Standard 7	07:23:38 Fri 02-Se	Standard #7	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 7.021	
	QC Std 1	07:28:13 Fri 02-Se	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 1.022	
	QC Std 2	07:32:49 Fri 02-Se	QC Std #2	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 2.023	
	QC Std 6	07:36:33 Fri 02-Se	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.024	
	QC Std 7	07:41:08 Fri 02-Se	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.025	
	QC Std 8	07:45:43 Fri 02-Se	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.026	
	08-268-07c 2X	07:49:28 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-07c 2X.027	
	08-268-08c 2X	07:54:03 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-08c 2X.028	
	08-268-09c 2X	07:58:38 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-09c 2X.029	
	08-268-01d 2X FFD	08:03:13 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-01d 2X FFD.030	
	08-268-02d 5X	08:17:05 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-02d 5X.031	
	08-268-03d 5X	08:21:40 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-03d 5X.032	
	QC Std 6	08:26:16 Fri 02-Se	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.033	
	QC Std 7	08:30:51 Fri 02-Se	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.034	
	QC Std 8	08:35:27 Fri 02-Se	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.035	
	MB0826F1 2X	08:40:20 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\MB0826F1 2X.036	
	SB0826F1 2X	08:44:55 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\SB0826F1 2X.037	
	08-291-16e 2X F	08:49:29 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16e 2X F.038	
	08-291-18e 2X F	08:54:03 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-18e 2X F.039	
	08-291-16eD 2X	09:00:13 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eD 2X.040	
	08-291-16eL 10X	09:04:47 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eL 10X.041	
	08-291-16eMS 2X	09:09:21 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMS 2X.042	
	08-291-16eMSD 2X	09:13:56 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMSD 2X.043	
	QC Std 6	09:18:32 Fri 02-Se	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.044	
	QC Std 7	09:30:04 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.046	
	QC Std 8	09:34:38 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.047	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, September 02, 2022 07:01:04

Report Date/Time: Monday, September 05, 2022 08:12:23

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Blank.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	258378.5	2.9				ug/L		Standard
|	Cr	52	6655.6	2.6				ug/L		Standard
|	Cr	53	322.7	7.3				ug/L		Standard
[>	Ge	72	174253.9	2.0				ug/L		Standard
|	As	75	2655.3	3.3				ug/L		Standard
|	As-1	75	-17.6	187.0				ug/L		Standard
|	Se	77	52.0	6.9				ug/L		Standard
|	Se	78	3219.4	2.4				ug/L		Standard
|	Br	79	182.0	12.0				ug/L		Standard
|	Se	82	53.3	11.5				ug/L		Standard
|	Kr	83	52.7	5.8				ug/L		Standard
|	Y	89	364379.4	0.8				ug/L		Standard
[	Rh	103	309794.8	2.3				ug/L		Standard
|	Cd	111	234.5	4.2				ug/L		Standard
|	Cd	114	54.1	12.4				ug/L		Standard
[>	In	115	412289.9	0.9				ug/L		Standard
[>	Tb	159	555028.2	0.3				ug/L		Standard
|	Ho	165	564489.6	0.2				ug/L		Standard
|	Pb	208	947.3	2.4				ug/L		Standard
|	Bi	209	326404.9	0.6				ug/L		Standard
|	Th	232	411068.3	0.1				ug/L		Standard
[	Cr-1	52	154.0	3.0				ug/L		KED
|	Cr-1	53	16.0	21.7				ug/L		KED
[>	Ge-1	72	7876.5	2.1				ug/L		KED
|	As-2	75	2.7	21.7				ug/L		KED
|	Y-1	89	12480.4	0.7				ug/L		KED
|	Rh-1	103	78958.3	0.7				ug/L		KED
[	Cd-1	111	3.0	66.7				ug/L		KED
|	Cd-1	114	5.6	38.1				ug/L		KED
[>	In-1	115	7380.3	0.5				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Monday, September 05, 2022 08:12:23

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, September 02, 2022 07:04:50

Report Date/Time: Monday, September 05, 2022 08:12:24

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 2.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	267472.0	1.9				ug/L	258379	Standard
|	Cr	52	10625.6	2.8	0.5192	0.015	2.9	ug/L	6656	Standard
|	Cr	53	793.7	2.3	0.5608	0.037	6.7	ug/L	323	Standard
[>	Ge	72	181781.7	2.4				ug/L	174254	Standard
|	As	75	3029.8	4.8	0.2884	0.085	29.4	ug/L	2655	Standard
|	As-1	75	454.9	10.3	0.4864	0.043	8.8	ug/L	-18	Standard
|	Se	77	86.0	14.3	0.4781	0.157	32.8	ug/L	52	Standard
|	Se	78	3230.7	4.8	-0.5991	0.384	64.1	ug/L	3219	Standard
|	Br	79	175.0	6.0				ug/L	182	Standard
|	Se	82	102.3	15.0	0.3910	0.122	31.1	ug/L	53	Standard
|	Kr	83	54.3	16.7				ug/L	53	Standard
|	Y	89	380312.2	1.8				ug/L	364379	Standard
|	Rh	103	324412.1	2.8				ug/L	309795	Standard
|	Cd	111	1834.6	1.5	0.5185	0.009	1.7	ug/L	234	Standard
|	Cd	114	4117.2	1.9	0.5236	0.010	2.0	ug/L	54	Standard
[>	In	115	431707.5	1.1				ug/L	412290	Standard
[>	Tb	159	580108.0	0.7				ug/L	555028	Standard
|	Ho	165	593081.1	0.7				ug/L	564490	Standard
|	Pb	208	21316.9	0.5	0.4916	0.004	0.9	ug/L	947	Standard
|	Bi	209	339159.5	0.2				ug/L	326405	Standard
|	Th	232	433419.3	0.2				ug/L	411068	Standard
|	Cr-1	52	564.3	0.5	0.5406	0.009	1.6	ug/L	154	KED
|	Cr-1	53	72.0	16.8	0.6054	0.139	23.0	ug/L	16	KED
[>	Ge-1	72	7963.2	0.9				ug/L	7877	KED
|	As-2	75	26.3	21.9	0.5026	0.121	24.1	ug/L	3	KED
|	Y-1	89	12653.9	2.2				ug/L	12480	KED
|	Rh-1	103	82296.0	0.8				ug/L	78958	KED
|	Cd-1	111	86.3	7.7	0.5361	0.033	6.2	ug/L	3	KED
|	Cd-1	114	234.6	14.6	0.5754	0.098	17.1	ug/L	6	KED
[>	In-1	115	7489.0	2.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 2

Report Date/Time: Monday, September 05, 2022 08:12:24

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, September 02, 2022 07:01:04

Report Date/Time: Monday, September 05, 2022 08:12:55

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Blank.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	258378.5	2.9				ug/L		Standard
|	Cr	52	6655.6	2.6				ug/L		Standard
|	Cr	53	322.7	7.3				ug/L		Standard
>	Ge	72	174253.9	2.0				ug/L		Standard
|	As	75	2655.3	3.3				ug/L		Standard
|	As-1	75	-17.6	187.0				ug/L		Standard
|	Se	77	52.0	6.9				ug/L		Standard
|	Se	78	3219.4	2.4				ug/L		Standard
|	Br	79	182.0	12.0				ug/L		Standard
|	Se	82	53.3	11.5				ug/L		Standard
|	Kr	83	52.7	5.8				ug/L		Standard
|	Y	89	364379.4	0.8				ug/L		Standard
|	Rh	103	309794.8	2.3				ug/L		Standard
|	Cd	111	234.5	4.2				ug/L		Standard
|	Cd	114	54.1	12.4				ug/L		Standard
>	In	115	412289.9	0.9				ug/L		Standard
>	Tb	159	555028.2	0.3				ug/L		Standard
|	Ho	165	564489.6	0.2				ug/L		Standard
|	Pb	208	947.3	2.4				ug/L		Standard
|	Bi	209	326404.9	0.6				ug/L		Standard
|	Th	232	411068.3	0.1				ug/L		Standard
|	Cr-1	52	154.0	3.0				ug/L		KED
|	Cr-1	53	16.0	21.7				ug/L		KED
>	Ge-1	72	7876.5	2.1				ug/L		KED
|	As-2	75	2.7	21.7				ug/L		KED
|	Y-1	89	12480.4	0.7				ug/L		KED
|	Rh-1	103	78958.3	0.7				ug/L		KED
|	Cd-1	111	3.0	66.7				ug/L		KED
|	Cd-1	114	5.6	38.1				ug/L		KED
>	In-1	115	7380.3	0.5				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Monday, September 05, 2022 08:12:55

Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, September 02, 2022 07:04:50

Report Date/Time: Monday, September 05, 2022 08:12:57

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 2.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	267472.0	1.9				ug/L	258379	Standard
|	Cr	52	10625.6	2.8	0.5000	0.014	2.9	ug/L	6656	Standard
|	Cr	53	793.7	2.3	0.5000	0.033	6.7	ug/L	323	Standard
[>	Ge	72	181781.7	2.4				ug/L	174254	Standard
|	As	75	3029.8	4.8	0.5000	0.147	29.4	ug/L	2655	Standard
|	As-1	75	454.9	10.3	0.5000	0.044	8.8	ug/L	-18	Standard
|	Se	77	86.0	14.3	0.5000	0.164	32.8	ug/L	52	Standard
|	Se	78	3230.7	4.8				ug/L	3219	Standard
|	Br	79	175.0	6.0				ug/L	182	Standard
|	Se	82	102.3	15.0	0.5000	0.156	31.1	ug/L	53	Standard
|	Kr	83	54.3	16.7				ug/L	53	Standard
|	Y	89	380312.2	1.8				ug/L	364379	Standard
|	Rh	103	324412.1	2.8				ug/L	309795	Standard
|	Cd	111	1834.6	1.5	0.5000	0.008	1.7	ug/L	234	Standard
|	Cd	114	4117.2	1.9	0.5000	0.010	2.0	ug/L	54	Standard
[>	In	115	431707.5	1.1				ug/L	412290	Standard
[>	Tb	159	580108.0	0.7				ug/L	555028	Standard
|	Ho	165	593081.1	0.7				ug/L	564490	Standard
|	Pb	208	21316.9	0.5	0.5000	0.004	0.9	ug/L	947	Standard
|	Bi	209	339159.5	0.2				ug/L	326405	Standard
|	Th	232	433419.3	0.2				ug/L	411068	Standard
|	Cr-1	52	564.3	0.5	0.5000	0.008	1.6	ug/L	154	KED
|	Cr-1	53	72.0	16.8	0.5000	0.115	23.0	ug/L	16	KED
[>	Ge-1	72	7963.2	0.9				ug/L	7877	KED
|	As-2	75	26.3	21.9	0.5000	0.120	24.1	ug/L	3	KED
|	Y-1	89	12653.9	2.2				ug/L	12480	KED
|	Rh-1	103	82296.0	0.8				ug/L	78958	KED
|	Cd-1	111	86.3	7.7	0.5000	0.031	6.2	ug/L	3	KED
|	Cd-1	114	234.6	14.6	0.5000	0.085	17.1	ug/L	6	KED
[>	In-1	115	7489.0	2.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 2

Report Date/Time: Monday, September 05, 2022 08:12:57

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, September 02, 2022 07:08:36
 Report Date/Time: Monday, September 05, 2022 08:12:59
 Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 3.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	275551.7	1.2				ug/L	258379	Standard
|	Cr	52	23891.6	1.9	2.0099	0.024	1.2	ug/L	6656	Standard
|	Cr	53	2347.9	3.3	2.0063	0.055	2.8	ug/L	323	Standard
[>	Ge	72	186785.3	1.3				ug/L	174254	Standard
|	As	75	4481.7	1.8	2.0420	0.040	2.0	ug/L	2655	Standard
|	As-1	75	1948.9	1.0	2.0014	0.032	1.6	ug/L	-18	Standard
|	Se	77	197.7	3.8	2.0100	0.124	6.2	ug/L	52	Standard
|	Se	78	3628.1	2.0	2.0000	0.574	28.7	ug/L	3219	Standard
|	Br	79	172.3	10.8				ug/L	182	Standard
|	Se	82	278.0	5.3	2.0157	0.167	8.3	ug/L	53	Standard
|	Kr	83	48.0	43.8				ug/L	53	Standard
|	Y	89	388932.2	2.4				ug/L	364379	Standard
|	Rh	103	336574.5	2.9				ug/L	309795	Standard
|	Cd	111	7082.4	0.9	2.0054	0.010	0.5	ug/L	234	Standard
|	Cd	114	17073.7	2.1	2.0025	0.026	1.3	ug/L	54	Standard
[>	In	115	442784.9	1.3				ug/L	412290	Standard
[>	Tb	159	596907.8	0.5				ug/L	555028	Standard
|	Ho	165	609631.9	0.8				ug/L	564490	Standard
|	Pb	208	89817.4	0.5	2.0068	0.016	0.8	ug/L	947	Standard
|	Bi	209	346637.8	0.4				ug/L	326405	Standard
|	Th	232	440268.7	0.9				ug/L	411068	Standard
|	Cr-1	52	1817.1	1.5	1.9998	0.016	0.8	ug/L	154	KED
|	Cr-1	53	233.3	2.2	1.9944	0.047	2.4	ug/L	16	KED
[>	Ge-1	72	8091.6	1.3				ug/L	7877	KED
|	As-2	75	93.3	3.4	1.9930	0.097	4.9	ug/L	3	KED
|	Y-1	89	12931.9	2.1				ug/L	12480	KED
|	Rh-1	103	83717.6	1.1				ug/L	78958	KED
|	Cd-1	111	381.7	4.3	2.0111	0.115	5.7	ug/L	3	KED
|	Cd-1	114	946.5	1.6	1.9994	0.047	2.4	ug/L	6	KED
[>	In-1	115	7721.6	2.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, September 02, 2022 07:12:21

Report Date/Time: Monday, September 05, 2022 08:13:01

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 4.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	282545.6	1.7				ug/L	258379	Standard
|	Cr	52	51417.4	1.4	5.0216	0.043	0.9	ug/L	6656	Standard
|	Cr	53	5490.4	1.1	5.0026	0.039	0.8	ug/L	323	Standard
>	Ge	72	191374.4	2.2				ug/L	174254	Standard
|	As	75	7685.9	2.6	5.1039	0.202	4.0	ug/L	2655	Standard
|	As-1	75	5394.3	2.3	5.0512	0.132	2.6	ug/L	-18	Standard
|	Se	77	398.7	5.0	4.9569	0.164	3.3	ug/L	52	Standard
|	Se	78	4300.3	2.4	5.2973	0.665	12.6	ug/L	3219	Standard
|	Br	79	172.0	11.2				ug/L	182	Standard
|	Se	82	652.3	1.5	5.0399	0.161	3.2	ug/L	53	Standard
|	Kr	83	43.7	25.2				ug/L	53	Standard
|	Y	89	402361.4	1.1				ug/L	364379	Standard
|	Rh	103	346316.0	1.5				ug/L	309795	Standard
|	Cd	111	18058.8	0.6	5.0170	0.036	0.7	ug/L	234	Standard
|	Cd	114	45248.0	1.1	5.0294	0.057	1.1	ug/L	54	Standard
>	In	115	451994.8	0.1				ug/L	412290	Standard
>	Tb	159	605077.6	0.5				ug/L	555028	Standard
|	Ho	165	621814.5	0.5				ug/L	564490	Standard
|	Pb	208	231770.5	0.2	5.0205	0.036	0.7	ug/L	947	Standard
|	Bi	209	352477.4	0.2				ug/L	326405	Standard
|	Th	232	453330.9	0.4				ug/L	411068	Standard
|	Cr-1	52	4656.8	1.2	5.0320	0.113	2.2	ug/L	154	KED
|	Cr-1	53	562.3	2.8	4.9760	0.102	2.0	ug/L	16	KED
>	Ge-1	72	8382.8	1.1				ug/L	7877	KED
|	As-2	75	262.7	3.9	5.0689	0.217	4.3	ug/L	3	KED
|	Y-1	89	13316.5	1.1				ug/L	12480	KED
|	Rh-1	103	85983.7	1.4				ug/L	78958	KED
|	Cd-1	111	948.4	0.6	4.9785	0.134	2.7	ug/L	3	KED
|	Cd-1	114	2436.8	2.7	4.9997	0.181	3.6	ug/L	6	KED
>	In-1	115	7982.7	2.1				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 4

Report Date/Time: Monday, September 05, 2022 08:13:01

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, September 02, 2022 07:16:07

Report Date/Time: Monday, September 05, 2022 08:13:03

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 5.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	261457.8	1.9				ug/L	258379	Standard
|	Cr	52	161015.8	1.4	19.9262	0.220	1.1	ug/L	6656	Standard
|	Cr	53	18160.2	2.9	19.9105	0.218	1.1	ug/L	323	Standard
[>	Ge	72	176568.0	1.5				ug/L	174254	Standard
|	As	75	20664.7	3.0	20.0549	0.331	1.7	ug/L	2655	Standard
|	As-1	75	19248.3	3.8	19.9633	0.451	2.3	ug/L	-18	Standard
|	Se	77	1359.4	2.7	20.0373	0.307	1.5	ug/L	52	Standard
|	Se	78	7258.5	2.2	20.4605	0.286	1.4	ug/L	3219	Standard
|	Br	79	175.3	5.3				ug/L	182	Standard
|	Se	82	2215.2	5.0	19.9909	0.723	3.6	ug/L	53	Standard
|	Kr	83	55.0	20.2				ug/L	53	Standard
|	Y	89	365447.7	2.4				ug/L	364379	Standard
|	Rh	103	310861.1	2.5				ug/L	309795	Standard
|	Cd	111	63266.2	0.6	19.9571	0.060	0.3	ug/L	234	Standard
|	Cd	114	158304.2	0.6	19.9451	0.063	0.3	ug/L	54	Standard
[>	In	115	414114.0	0.3				ug/L	412290	Standard
[>	Tb	159	559683.5	0.6				ug/L	555028	Standard
|	Ho	165	573455.0	0.7				ug/L	564490	Standard
|	Pb	208	819711.4	0.3	19.9477	0.138	0.7	ug/L	947	Standard
|	Bi	209	328585.0	0.5				ug/L	326405	Standard
|	Th	232	417232.0	0.5				ug/L	411068	Standard
|	Cr-1	52	15420.3	0.1	19.8837	0.534	2.7	ug/L	154	KED
|	Cr-1	53	1905.8	4.0	19.8954	0.298	1.5	ug/L	16	KED
[>	Ge-1	72	7785.1	2.6				ug/L	7877	KED
|	As-2	75	962.4	3.1	20.0112	0.762	3.8	ug/L	3	KED
|	Y-1	89	12318.0	1.7				ug/L	12480	KED
|	Rh-1	103	78467.6	1.7				ug/L	78958	KED
|	Cd-1	111	3414.1	1.7	19.9489	0.208	1.0	ug/L	3	KED
|	Cd-1	114	8805.3	1.7	19.9592	0.173	0.9	ug/L	6	KED
[>	In-1	115	7438.7	1.3				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Monday, September 05, 2022 08:13:03

Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, September 02, 2022 07:19:52

Report Date/Time: Monday, September 05, 2022 08:13:05

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 6.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	263405.6	1.5				ug/L	258379	Standard
|	Cr	52	319983.1	0.8	40.0321	0.443	1.1	ug/L	6656	Standard
|	Cr	53	36248.3	1.8	39.9599	0.421	1.1	ug/L	323	Standard
[>	Ge	72	178200.3	2.4				ug/L	174254	Standard
|	As	75	38985.4	2.1	40.0225	0.157	0.4	ug/L	2655	Standard
|	As-1	75	38712.2	2.1	39.9522	0.166	0.4	ug/L	-18	Standard
|	Se	77	2588.9	1.0	39.6822	0.739	1.9	ug/L	52	Standard
|	Se	78	11585.7	1.1	40.4240	0.791	2.0	ug/L	3219	Standard
|	Br	79	169.7	5.3				ug/L	182	Standard
|	Se	82	4439.0	1.0	40.0441	0.648	1.6	ug/L	53	Standard
|	Kr	83	45.0	21.2				ug/L	53	Standard
|	Y	89	373400.4	1.8				ug/L	364379	Standard
[	Rh	103	317411.9	1.3				ug/L	309795	Standard
|	Cd	111	127688.9	0.6	39.9779	0.236	0.6	ug/L	234	Standard
|	Cd	114	319265.0	0.5	39.9521	0.226	0.6	ug/L	54	Standard
[>	In	115	418876.3	0.2				ug/L	412290	Standard
[>	Tb	159	568446.7	0.1				ug/L	555028	Standard
|	Ho	165	582998.9	0.7				ug/L	564490	Standard
|	Pb	208	1659890.8	0.1	39.9561	0.088	0.2	ug/L	947	Standard
|	Bi	209	331784.6	1.1				ug/L	326405	Standard
|	Th	232	423461.4	0.8				ug/L	411068	Standard
[	Cr-1	52	31036.3	0.2	39.9199	0.677	1.7	ug/L	154	KED
|	Cr-1	53	3833.5	0.5	39.9195	0.835	2.1	ug/L	16	KED
[>	Ge-1	72	7899.5	1.6				ug/L	7877	KED
|	As-2	75	1914.1	1.5	39.8443	1.148	2.9	ug/L	3	KED
|	Y-1	89	12604.6	2.1				ug/L	12480	KED
|	Rh-1	103	79622.6	0.5				ug/L	78958	KED
[	Cd-1	111	6833.6	1.7	40.0626	0.512	1.3	ug/L	3	KED
|	Cd-1	114	17926.7	0.5	40.2090	0.370	0.9	ug/L	6	KED
[>	In-1	115	7374.0	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
	Cd	111		

Sample ID: Standard 6

Report Date/Time: Monday, September 05, 2022 08:13:05

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, September 02, 2022 07:23:38

Report Date/Time: Monday, September 05, 2022 08:13:07

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 7.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	269428.5	0.9				ug/L	258379	Standard
[	Cr	52	796423.3	0.6	99.7693	0.754	0.8	ug/L	6656	Standard
[	Cr	53	91717.9	1.5	99.8974	1.849	1.9	ug/L	323	Standard
[>	Ge	72	184090.4	1.5				ug/L	174254	Standard
[	As	75	94471.2	1.4	99.6419	1.153	1.2	ug/L	2655	Standard
[	As-1	75	98578.6	1.4	99.7355	0.695	0.7	ug/L	-18	Standard
[	Se	77	6539.8	2.9	99.6925	2.036	2.0	ug/L	52	Standard
[	Se	78	24573.8	2.4	99.9787	2.442	2.4	ug/L	3219	Standard
[	Br	79	185.0	5.2				ug/L	182	Standard
[	Se	82	11545.3	1.9	100.2574	0.548	0.5	ug/L	53	Standard
[	Kr	83	49.7	23.2				ug/L	53	Standard
[	Y	89	388758.1	1.1				ug/L	364379	Standard
[	Rh	103	332059.6	0.5				ug/L	309795	Standard
[	Cd	111	322397.1	0.9	99.5474	0.795	0.8	ug/L	234	Standard
[	Cd	114	812814.8	0.5	99.6618	0.959	1.0	ug/L	54	Standard
[>	In	115	434684.2	0.5				ug/L	412290	Standard
[>	Tb	159	590185.7	0.6				ug/L	555028	Standard
[	Ho	165	603055.7	0.5				ug/L	564490	Standard
[	Pb	208	4038313.6	0.4	98.8713	0.918	0.9	ug/L	947	Standard
[	Bi	209	340842.2	0.5				ug/L	326405	Standard
[	Th	232	441078.5	0.5				ug/L	411068	Standard
[	Cr-1	52	78606.0	0.4	99.8849	1.252	1.3	ug/L	154	KED
[	Cr-1	53	9589.2	1.3	99.6650	2.157	2.2	ug/L	16	KED
[>	Ge-1	72	8064.6	1.0				ug/L	7877	KED
[	As-2	75	4834.5	2.6	99.7647	1.853	1.9	ug/L	3	KED
[	Y-1	89	12893.1	0.6				ug/L	12480	KED
[	Rh-1	103	81758.6	0.3				ug/L	78958	KED
[	Cd-1	111	17418.9	0.8	99.6226	0.466	0.5	ug/L	3	KED
[	Cd-1	114	45290.9	0.6	99.5313	1.131	1.1	ug/L	6	KED
[>	In-1	115	7701.6	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
[	Cr	52		
[	Cr	53		
[>	Ge	72		
[	As	75		
[	As-1	75		
[	Se	77		
[	Se	78		
[	Br	79		
[	Se	82		
[	Kr	83		
[	Y	89		
[	Rh	103		
[Cd	111		

Sample ID: Standard 7

Report Date/Time: Monday, September 05, 2022 08:13:07

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, September 02, 2022 07:28:13

Report Date/Time: Monday, September 05, 2022 08:13:09

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 1.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	269809.5	2.2				ug/L	258379	Standard
|	Cr	52	409278.2	1.5	50.7755	0.443	0.9	ug/L	6656	Standard
|	Cr	53	46834.0	1.4	50.7615	0.466	0.9	ug/L	323	Standard
>	Ge	72	184136.1	2.1				ug/L	174254	Standard
|	As	75	50425.0	1.3	51.7531	0.470	0.9	ug/L	2655	Standard
|	As-1	75	50974.8	1.8	51.5700	0.263	0.5	ug/L	-18	Standard
|	Se	77	3460.4	1.1	52.3590	1.318	2.5	ug/L	52	Standard
|	Se	78	14324.8	2.8	51.5581	0.643	1.2	ug/L	3219	Standard
|	Br	79	204.3	10.3				ug/L	182	Standard
|	Se	82	5891.9	4.7	50.8948	1.386	2.7	ug/L	53	Standard
|	Kr	83	41.0	23.5				ug/L	53	Standard
|	Y	89	388344.4	2.1				ug/L	364379	Standard
|	Rh	103	328311.6	2.2				ug/L	309795	Standard
|	Cd	111	165529.9	0.6	51.3256	0.717	1.4	ug/L	234	Standard
|	Cd	114	416282.4	0.4	51.2858	0.319	0.6	ug/L	54	Standard
>	In	115	432586.2	0.9				ug/L	412290	Standard
>	Tb	159	586045.3	1.1				ug/L	555028	Standard
|	Ho	165	599443.0	0.5				ug/L	564490	Standard
|	Pb	208	2145961.8	0.2	52.9018	0.505	1.0	ug/L	947	Standard
|	Bi	209	338532.5	1.1				ug/L	326405	Standard
|	Th	232	431580.5	0.3				ug/L	411068	Standard
|	Cr-1	52	40123.9	0.6	50.9211	0.968	1.9	ug/L	154	KED
|	Cr-1	53	4869.2	0.6	50.5528	0.848	1.7	ug/L	16	KED
>	Ge-1	72	8059.9	1.3				ug/L	7877	KED
|	As-2	75	2522.9	1.7	52.0828	1.545	3.0	ug/L	3	KED
|	Y-1	89	12881.5	1.5				ug/L	12480	KED
|	Rh-1	103	82405.7	1.1				ug/L	78958	KED
|	Cd-1	111	9106.2	1.0	51.5669	0.367	0.7	ug/L	3	KED
|	Cd-1	114	23749.7	1.4	51.6773	0.573	1.1	ug/L	6	KED
>	In-1	115	7776.7	0.3				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.424
|	Cr	52	101.551	
|	Cr	53	101.523	
>	Ge	72		105.671
|	As	75	103.506	
|	As-1	75	103.140	
|	Se	77	104.718	
|	Se	78	103.116	
|	Br	79		
|	Se	82	101.790	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	102.651	

Sample ID: QC Std 1

Report Date/Time: Monday, September 05, 2022 08:13:09

Cd	114	102.572	
In	115		104.923
Tb	159		105.588
Ho	165		
Pb	208	105.804	
Bi	209		
Th	232		
Cr-1	52	101.842	
Cr-1	53	101.106	
Ge-1	72		102.329
As-2	75	104.166	
Y-1	89		
Rh-1	103		
Cd-1	111	103.134	
Cd-1	114	103.355	
In-1	115		105.372

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, September 02, 2022 07:32:49

Report Date/Time: Monday, September 05, 2022 08:13:10

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 2.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	251167.5	1.7				ug/L	258379	Standard
|	Cr	52	6217.4	3.6	-0.0343	0.021	62.5	ug/L	6656	Standard
|	Cr	53	351.3	1.2	0.0442	0.002	5.3	ug/L	323	Standard
[>	Ge	72	169232.5	2.4				ug/L	174254	Standard
|	As	75	2613.1	0.9	0.0415	0.063	151.5	ug/L	2655	Standard
|	As-1	75	13.7	22.7	0.0338	0.003	9.2	ug/L	-18	Standard
|	Se	77	51.3	21.5	0.0115	0.167	1447.0	ug/L	52	Standard
|	Se	78	3139.7	1.1	0.0714	0.279	390.7	ug/L	3219	Standard
|	Br	79	143.0	14.7				ug/L	182	Standard
|	Se	82	55.3	10.0	0.0329	0.040	121.9	ug/L	53	Standard
|	Kr	83	47.0	20.5				ug/L	53	Standard
|	Y	89	353797.7	1.4				ug/L	364379	Standard
|	Rh	103	301658.3	3.1				ug/L	309795	Standard
|	Cd	111	243.9	12.0	0.0052	0.009	173.9	ug/L	234	Standard
|	Cd	114	79.8	19.6	0.0036	0.002	55.3	ug/L	54	Standard
[>	In	115	401221.9	0.9				ug/L	412290	Standard
[>	Tb	159	537834.6	0.7				ug/L	555028	Standard
|	Ho	165	549187.6	1.1				ug/L	564490	Standard
|	Pb	208	1062.7	3.8	0.0039	0.001	22.9	ug/L	947	Standard
|	Bi	209	313041.7	0.4				ug/L	326405	Standard
|	Th	232	393965.2	0.6				ug/L	411068	Standard
|	Cr-1	52	155.0	6.2	0.0078	0.013	169.8	ug/L	154	KED
|	Cr-1	53	22.3	22.1	0.0753	0.055	73.7	ug/L	16	KED
[>	Ge-1	72	7633.4	0.6				ug/L	7877	KED
|	As-2	75	4.3	48.0	0.0381	0.045	118.9	ug/L	3	KED
|	Y-1	89	12201.5	1.9				ug/L	12480	KED
|	Rh-1	103	76904.8	0.5				ug/L	78958	KED
|	Cd-1	111	2.7	78.1	-0.0020	0.012	636.9	ug/L	3	KED
|	Cd-1	114	8.6	4.0	0.0069	0.001	10.2	ug/L	6	KED
[>	In-1	115	7357.3	0.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		97.209
|	Cr	52		
|	Cr	53		
[>	Ge	72		97.118
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 2

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Cd	114	
In	115	97.315
Tb	159	96.902
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	96.913
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.688

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, September 02, 2022 07:36:33

Report Date/Time: Monday, September 05, 2022 08:13:12

Method File: C:\NexlONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220902A\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	261879.5	1.5				ug/L	258379	Standard
|	Cr	52	314007.6	0.6	39.9516	0.463	1.2	ug/L	6656	Standard
|	Cr	53	35627.4	1.8	39.6983	0.178	0.4	ug/L	323	Standard
[>	Ge	72	176448.8	1.2				ug/L	174254	Standard
|	As	75	38811.8	1.5	40.9637	0.278	0.7	ug/L	2655	Standard
|	As-1	75	38786.7	1.3	40.9511	0.176	0.4	ug/L	-18	Standard
|	Se	77	2591.6	1.4	40.7233	0.206	0.5	ug/L	52	Standard
|	Se	78	11472.9	2.9	40.4577	1.322	3.3	ug/L	3219	Standard
|	Br	79	177.7	6.2				ug/L	182	Standard
|	Se	82	4507.4	1.9	40.5475	0.713	1.8	ug/L	53	Standard
|	Kr	83	48.3	10.2				ug/L	53	Standard
|	Y	89	371149.2	1.8				ug/L	364379	Standard
|	Rh	103	314999.2	3.4				ug/L	309795	Standard
|	Cd	111	123897.7	0.5	39.9763	0.140	0.3	ug/L	234	Standard
|	Cd	114	313473.6	1.0	40.2044	0.328	0.8	ug/L	54	Standard
[>	In	115	415503.2	0.2				ug/L	412290	Standard
[>	Tb	159	562139.7	0.7				ug/L	555028	Standard
|	Ho	165	570652.0	0.2				ug/L	564490	Standard
|	Pb	208	1625719.2	0.6	41.7749	0.426	1.0	ug/L	947	Standard
|	Bi	209	326848.1	0.2				ug/L	326405	Standard
|	Th	232	420650.2	0.7				ug/L	411068	Standard
|	Cr-1	52	31029.7	0.5	40.0403	1.102	2.8	ug/L	154	KED
|	Cr-1	53	3723.8	0.8	39.3115	0.886	2.3	ug/L	16	KED
[>	Ge-1	72	7920.5	2.3				ug/L	7877	KED
|	As-2	75	1964.8	1.0	41.2739	1.344	3.3	ug/L	3	KED
|	Y-1	89	12733.3	0.3				ug/L	12480	KED
|	Rh-1	103	79029.3	0.6				ug/L	78958	KED
|	Cd-1	111	7008.4	2.8	39.8381	0.925	2.3	ug/L	3	KED
|	Cd-1	114	17976.1	0.8	39.2671	0.220	0.6	ug/L	6	KED
[>	In-1	115	7746.4	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		101.355
|	Cr	52	99.879	
|	Cr	53	99.246	
[>	Ge	72		101.260
|	As	75	102.409	
|	As-1	75	102.378	
|	Se	77	101.808	
	Se	78	101.144	
	Br	79		
	Se	82	101.369	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.941	

Sample ID: QC Std 6

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—	Cd	114	100.511	
└>	In	115		100.779
└>	Tb	159		101.281
—	Ho	165		
—	Pb	208	104.437	
—	Bi	209		
—	Th	232		
—	Cr-1	52	100.101	
—	Cr-1	53	98.279	
└>	Ge-1	72		100.559
—	As-2	75	103.185	
—	Y-1	89		
—	Rh-1	103		
—	Cd-1	111	99.595	
—	Cd-1	114	98.168	
└>	In-1	115		104.960

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, September 02, 2022 07:41:08

Report Date/Time: Monday, September 05, 2022 08:13:14

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	259879.0	2.3				ug/L	258379	Standard
|	Cr	52	158734.9	2.2	19.9357	0.103	0.5	ug/L	6656	Standard
|	Cr	53	17781.7	1.7	19.8030	0.356	1.8	ug/L	323	Standard
[>	Ge	72	174675.0	1.8				ug/L	174254	Standard
|	As	75	20471.2	3.9	20.3999	0.731	3.6	ug/L	2655	Standard
|	As-1	75	19082.0	3.2	20.3618	0.582	2.9	ug/L	-18	Standard
|	Se	77	1304.1	2.6	20.2898	0.704	3.5	ug/L	52	Standard
|	Se	78	7411.6	3.9	20.8168	0.953	4.6	ug/L	3219	Standard
|	Br	79	163.3	7.8				ug/L	182	Standard
|	Se	82	2287.8	1.0	20.5543	0.425	2.1	ug/L	53	Standard
|	Kr	83	48.7	5.2				ug/L	53	Standard
|	Y	89	367274.3	1.5				ug/L	364379	Standard
|	Rh	103	312158.8	2.6				ug/L	309795	Standard
|	Cd	111	61347.5	1.1	20.1474	0.051	0.3	ug/L	234	Standard
|	Cd	114	154653.9	0.3	20.2254	0.236	1.2	ug/L	54	Standard
[>	In	115	407449.1	1.0				ug/L	412290	Standard
[>	Tb	159	547920.0	0.4				ug/L	555028	Standard
|	Ho	165	558016.6	0.1				ug/L	564490	Standard
|	Pb	208	796501.7	0.1	20.9854	0.076	0.4	ug/L	947	Standard
|	Bi	209	318569.3	0.6				ug/L	326405	Standard
|	Th	232	403184.1	0.5				ug/L	411068	Standard
|	Cr-1	52	15199.4	1.4	19.8004	0.472	2.4	ug/L	154	KED
|	Cr-1	53	1884.1	4.2	20.0926	0.577	2.9	ug/L	16	KED
[>	Ge-1	72	7804.1	1.5				ug/L	7877	KED
|	As-2	75	964.4	0.9	20.5234	0.210	1.0	ug/L	3	KED
|	Y-1	89	12541.8	1.5				ug/L	12480	KED
|	Rh-1	103	78278.6	0.8				ug/L	78958	KED
|	Cd-1	111	3497.4	3.2	19.9810	0.661	3.3	ug/L	3	KED
|	Cd-1	114	9030.1	0.3	19.8287	0.431	2.2	ug/L	6	KED
[>	In-1	115	7705.7	2.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		100.503
|	Cr	52	99.679	
|	Cr	53	99.015	
[>	Ge	72		100.242
|	As	75	102.000	
|	As-1	75	101.809	
|	Se	77	101.449	
	Se	78	104.084	
	Br	79		
	Se	82	102.772	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.737	

Sample ID: QC Std 7

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Cd	114	101.127	
In	115		98.826
Tb	159		98.719
Ho	165		
Pb	208	104.927	
Bi	209		
Th	232		
Cr-1	52	99.002	
Cr-1	53	100.463	
Ge-1	72		99.081
As-2	75	102.617	
Y-1	89		
Rh-1	103		
Cd-1	111	99.905	
Cd-1	114	99.144	
In-1	115		104.409

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, September 02, 2022 07:45:43

Report Date/Time: Monday, September 05, 2022 08:13:16

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	254342.6	2.2				ug/L	258379	Standard
|	Cr	52	6295.7	1.7	-0.0342	0.009	25.3	ug/L	6656	Standard
|	Cr	53	371.7	2.3	0.0628	0.017	27.2	ug/L	323	Standard
>	Ge	72	171406.0	1.4				ug/L	174254	Standard
|	As	75	2697.9	3.8	0.0998	0.077	77.5	ug/L	2655	Standard
|	As-1	75	-2.0	688.3	0.0165	0.015	91.6	ug/L	-18	Standard
|	Se	77	47.0	14.9	-0.0690	0.111	160.9	ug/L	52	Standard
|	Se	78	3244.7	3.7	0.3923	0.416	106.0	ug/L	3219	Standard
|	Br	79	142.3	3.5				ug/L	182	Standard
|	Se	82	51.0	5.2	-0.0138	0.022	161.8	ug/L	53	Standard
|	Kr	83	46.3	27.3				ug/L	53	Standard
|	Y	89	356561.8	2.1				ug/L	364379	Standard
|	Rh	103	303936.9	2.9				ug/L	309795	Standard
|	Cd	111	249.0	6.8	0.0074	0.006	77.0	ug/L	234	Standard
|	Cd	114	50.0	8.2	-0.0003	0.001	159.2	ug/L	54	Standard
>	In	115	399230.6	0.4				ug/L	412290	Standard
>	Tb	159	534468.1	0.4				ug/L	555028	Standard
|	Ho	165	547233.0	1.6				ug/L	564490	Standard
|	Pb	208	841.0	1.1	-0.0019	0.000	9.7	ug/L	947	Standard
|	Bi	209	312463.9	0.5				ug/L	326405	Standard
|	Th	232	391680.7	0.7				ug/L	411068	Standard
|	Cr-1	52	162.3	9.4	0.0144	0.019	131.2	ug/L	154	KED
|	Cr-1	53	17.7	25.5	0.0210	0.049	232.9	ug/L	16	KED
>	Ge-1	72	7743.8	0.6				ug/L	7877	KED
|	As-2	75	3.0	57.7	0.0083	0.038	452.5	ug/L	3	KED
|	Y-1	89	12486.8	0.5				ug/L	12480	KED
|	Rh-1	103	77052.9	0.7				ug/L	78958	KED
|	Cd-1	111	2.0	86.6	-0.0063	0.010	161.6	ug/L	3	KED
|	Cd-1	114	3.9	55.0	-0.0041	0.005	121.1	ug/L	6	KED
>	In-1	115	7607.1	2.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.438
|	Cr	52		
|	Cr	53		
>	Ge	72		98.366
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	96.832
Tb	159	96.296
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.315
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	103.073

Quantitative Analysis - Summary Report

Sample ID: 08-268-07c 2X

Sample Date/Time: Friday, September 02, 2022 07:49:28

Report Date/Time: Monday, September 05, 2022 08:13:18

Method File: C:\NexIONData_krmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_krmckinney\DataSet\X220902A\08-268-07c 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	343090.9	0.9				ug/L	258379	Standard
|	Cr	52	19429.2	0.9	1.0511	0.013	1.3	ug/L	6656	Standard
|	Cr	53	2337.2	2.3	1.6388	0.061	3.7	ug/L	323	Standard
>	Ge	72	198287.9	1.8				ug/L	174254	Standard
|	As	75	4029.1	0.6	1.0178	0.090	8.8	ug/L	2655	Standard
|	As-1	75	1088.3	1.6	1.0412	0.035	3.3	ug/L	-18	Standard
|	Se	77	89.3	7.5	0.4306	0.095	22.0	ug/L	52	Standard
|	Se	78	3785.8	1.1	0.5394	0.289	53.5	ug/L	3219	Standard
|	Br	79	26735.3	1.3				ug/L	182	Standard
|	Se	82	154.7	6.1	0.7611	0.068	8.9	ug/L	53	Standard
|	Kr	83	48.7	6.3				ug/L	53	Standard
|	Y	89	436965.5	1.7				ug/L	364379	Standard
|	Rh	103	359799.9	1.8				ug/L	309795	Standard
|	Cd	111	292.2	12.1	0.0122	0.011	87.7	ug/L	234	Standard
|	Cd	114	43.8	38.1	-0.0017	0.002	114.5	ug/L	54	Standard
>	In	115	442876.9	0.5				ug/L	412290	Standard
>	Tb	159	597041.5	0.5				ug/L	555028	Standard
|	Ho	165	611506.6	0.5				ug/L	564490	Standard
|	Pb	208	3057.8	2.3	0.0494	0.002	3.9	ug/L	947	Standard
|	Bi	209	325286.2	0.7				ug/L	326405	Standard
|	Th	232	448321.1	0.9				ug/L	411068	Standard
|	Cr-1	52	1241.4	3.3	1.3177	0.037	2.8	ug/L	154	KED
|	Cr-1	53	141.7	8.4	1.2470	0.127	10.2	ug/L	16	KED
>	Ge-1	72	8393.1	1.1				ug/L	7877	KED
|	As-2	75	42.0	19.5	0.7768	0.160	20.6	ug/L	3	KED
|	Y-1	89	14130.0	0.9				ug/L	12480	KED
|	Rh-1	103	82989.0	1.4				ug/L	78958	KED
|	Cd-1	111	3.3	69.3	-0.0005	0.012	2344.2	ug/L	3	KED
|	Cd-1	114	4.1	120.3	-0.0047	0.010	214.1	ug/L	6	KED
>	In-1	115	8424.0	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		132.786
|	Cr	52		
|	Cr	53		
>	Ge	72		113.793
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-07c 2X

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Cd	114	
In	115	107.419
Tb	159	107.570
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.559
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	114.142

Quantitative Analysis - Summary Report

Sample ID: 08-268-08c 2X

Sample Date/Time: Friday, September 02, 2022 07:54:03

Report Date/Time: Monday, September 05, 2022 08:13:20

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-08c 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	338168.6	1.0				ug/L	258379	Standard
|	Cr	52	16543.6	0.8	0.7886	0.004	0.5	ug/L	6656	Standard
|	Cr	53	1764.8	4.1	1.1691	0.057	4.9	ug/L	323	Standard
>	Ge	72	200244.0	0.8				ug/L	174254	Standard
|	As	75	4990.8	2.4	1.9377	0.085	4.4	ug/L	2655	Standard
|	As-1	75	2030.6	1.1	1.9071	0.015	0.8	ug/L	-18	Standard
|	Se	77	80.7	19.8	0.2945	0.216	73.3	ug/L	52	Standard
|	Se	78	3742.2	2.5	0.1837	0.285	154.9	ug/L	3219	Standard
|	Br	79	15853.5	2.8				ug/L	182	Standard
|	Se	82	128.7	6.6	0.5409	0.074	13.7	ug/L	53	Standard
|	Kr	83	58.0	13.5				ug/L	53	Standard
|	Y	89	438341.1	0.9				ug/L	364379	Standard
|	Rh	103	361130.2	1.5				ug/L	309795	Standard
|	Cd	111	301.9	5.5	0.0142	0.005	35.5	ug/L	234	Standard
|	Cd	114	145.1	5.3	0.0103	0.001	9.0	ug/L	54	Standard
>	In	115	447719.3	0.6				ug/L	412290	Standard
>	Tb	159	600650.4	0.7				ug/L	555028	Standard
|	Ho	165	614974.6	1.1				ug/L	564490	Standard
|	Pb	208	5981.2	0.6	0.1193	0.002	1.4	ug/L	947	Standard
|	Bi	209	324497.8	0.3				ug/L	326405	Standard
|	Th	232	441673.3	0.8				ug/L	411068	Standard
|	Cr-1	52	974.4	0.5	0.9810	0.024	2.4	ug/L	154	KED
|	Cr-1	53	124.0	14.8	1.0579	0.173	16.3	ug/L	16	KED
>	Ge-1	72	8467.8	1.7				ug/L	7877	KED
|	As-2	75	95.0	10.0	1.8140	0.216	11.9	ug/L	3	KED
|	Y-1	89	14252.1	0.4				ug/L	12480	KED
|	Rh-1	103	84451.6	1.1				ug/L	78958	KED
|	Cd-1	111	8.7	48.0	0.0263	0.021	80.4	ug/L	3	KED
|	Cd-1	114	10.1	53.0	0.0069	0.011	153.6	ug/L	6	KED
>	In-1	115	8635.2	0.4				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		130.881
|	Cr	52		
|	Cr	53		
>	Ge	72		114.915
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-268-08c 2X

Report Date/Time: Monday, September 05, 2022 08:13:20

Cd	114	
In	115	108.593
Tb	159	108.220
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	107.508
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	117.003

Quantitative Analysis - Summary Report

Sample ID: 08-268-09c 2X

Sample Date/Time: Friday, September 02, 2022 07:58:38

Report Date/Time: Monday, September 05, 2022 08:13:22

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-09c 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	361456.0	1.9				ug/L	258379	Standard
|	Cr	52	24628.6	2.3	1.4428	0.016	1.1	ug/L	6656	Standard
|	Cr	53	3183.0	1.7	2.2258	0.006	0.2	ug/L	323	Standard
[>	Ge	72	199356.7	1.8				ug/L	174254	Standard
|	As	75	3986.8	3.4	0.9520	0.082	8.6	ug/L	2655	Standard
|	As-1	75	1073.1	6.6	1.0205	0.048	4.7	ug/L	-18	Standard
|	Se	77	99.0	5.6	0.5615	0.091	16.3	ug/L	52	Standard
|	Se	78	3782.5	3.3	0.4312	0.329	76.3	ug/L	3219	Standard
|	Br	79	31831.4	1.2				ug/L	182	Standard
|	Se	82	165.7	13.3	0.8415	0.153	18.2	ug/L	53	Standard
|	Kr	83	49.7	21.1				ug/L	53	Standard
|	Y	89	439137.7	1.3				ug/L	364379	Standard
|	Rh	103	359209.0	1.9				ug/L	309795	Standard
|	Cd	111	282.3	6.8	0.0093	0.006	68.1	ug/L	234	Standard
|	Cd	114	61.3	21.5	0.0004	0.002	412.2	ug/L	54	Standard
[>	In	115	442747.0	0.6				ug/L	412290	Standard
[>	Tb	159	599513.4	0.7				ug/L	555028	Standard
|	Ho	165	613259.8	0.2				ug/L	564490	Standard
|	Pb	208	2778.1	0.6	0.0423	0.001	1.6	ug/L	947	Standard
|	Bi	209	320472.1	0.4				ug/L	326405	Standard
|	Th	232	442882.7	0.4				ug/L	411068	Standard
|	Cr-1	52	1681.8	2.9	1.8244	0.051	2.8	ug/L	154	KED
|	Cr-1	53	204.3	5.5	1.8415	0.112	6.1	ug/L	16	KED
[>	Ge-1	72	8526.2	0.7				ug/L	7877	KED
|	As-2	75	44.0	18.0	0.8029	0.153	19.1	ug/L	3	KED
|	Y-1	89	14419.3	0.6				ug/L	12480	KED
|	Rh-1	103	84634.0	0.7				ug/L	78958	KED
|	Cd-1	111	4.7	12.4	0.0058	0.003	49.9	ug/L	3	KED
|	Cd-1	114	2.1	146.1	-0.0089	0.006	66.1	ug/L	6	KED
[>	In-1	115	8676.0	0.6				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		139.894
|	Cr	52		
|	Cr	53		
[>	Ge	72		114.406
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-268-09c 2X

Report Date/Time: Monday, September 05, 2022 08:13:22

Cd	114	
In	115	107.387
Tb	159	108.015
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	108.249
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	117.557

Quantitative Analysis - Summary Report

Sample ID: 08-268-01d 2X FFD

Sample Date/Time: Friday, September 02, 2022 08:03:13

Report Date/Time: Monday, September 05, 2022 08:13:24

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-01d 2X FFD.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	366761.1	2.4				ug/L	258379	Standard
|	Cr	52	41600.5	2.2	2.9850	0.016	0.5	ug/L	6656	Standard
|	Cr	53	5790.5	4.1	4.2808	0.082	1.9	ug/L	323	Standard
>	Ge	72	198640.1	1.8				ug/L	174254	Standard
|	As	75	4595.9	4.2	1.5793	0.111	7.0	ug/L	2655	Standard
|	As-1	75	1879.1	3.8	1.7798	0.035	2.0	ug/L	-18	Standard
|	Se	77	202.3	5.3	2.0383	0.147	7.2	ug/L	52	Standard
|	Se	78	4079.2	3.4	1.7880	0.309	17.3	ug/L	3219	Standard
|	Br	79	90095.9	1.9				ug/L	182	Standard
|	Se	82	372.0	2.1	2.5176	0.089	3.5	ug/L	53	Standard
|	Kr	83	67.7	11.9				ug/L	53	Standard
|	Y	89	445572.8	0.4				ug/L	364379	Standard
|	Rh	103	350062.6	1.3				ug/L	309795	Standard
|	Cd	111	349.1	8.1	0.0315	0.008	26.6	ug/L	234	Standard
|	Cd	114	105.0	25.3	0.0059	0.003	56.1	ug/L	54	Standard
>	In	115	434338.9	0.4				ug/L	412290	Standard
>	Tb	159	594229.5	0.4				ug/L	555028	Standard
|	Ho	165	605581.9	0.3				ug/L	564490	Standard
|	Pb	208	6729.3	1.6	0.1390	0.003	2.1	ug/L	947	Standard
|	Bi	209	309235.0	1.1				ug/L	326405	Standard
|	Th	232	438221.3	0.7				ug/L	411068	Standard
|	Cr-1	52	3302.0	1.3	3.8343	0.103	2.7	ug/L	154	KED
|	Cr-1	53	435.7	3.3	4.1836	0.212	5.1	ug/L	16	KED
>	Ge-1	72	8404.5	1.6				ug/L	7877	KED
|	As-2	75	63.7	14.3	1.2061	0.189	15.7	ug/L	3	KED
|	Y-1	89	14715.6	1.4				ug/L	12480	KED
|	Rh-1	103	82013.1	0.9				ug/L	78958	KED
|	Cd-1	111	4.0	43.3	0.0028	0.009	327.3	ug/L	3	KED
|	Cd-1	114	7.8	16.5	0.0025	0.002	95.9	ug/L	6	KED
>	In-1	115	8530.5	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		141.947
|	Cr	52		
|	Cr	53		
>	Ge	72		113.995
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-268-01d 2X FFD

Report Date/Time: Monday, September 05, 2022 08:13:24

Cd	114	
In	115	105.348
Tb	159	107.063
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.703
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.585

Quantitative Analysis - Summary Report

Sample ID: 08-268-02d 5X

Sample Date/Time: Friday, September 02, 2022 08:17:05

Report Date/Time: Monday, September 05, 2022 08:13:27

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-02d 5X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	278826.6	3.2				ug/L	258379	Standard
|	Cr	52	18454.9	2.2	1.3770	0.025	1.8	ug/L	6656	Standard
|	Cr	53	1510.7	2.0	1.2288	0.048	3.9	ug/L	323	Standard
[>	Ge	72	172685.5	3.2				ug/L	174254	Standard
|	As	75	4226.4	3.8	1.8477	0.041	2.2	ug/L	2655	Standard
|	As-1	75	1478.3	8.0	1.6114	0.081	5.0	ug/L	-18	Standard
|	Se	77	144.0	18.2	1.5185	0.453	29.9	ug/L	52	Standard
|	Se	78	3596.5	3.2	2.0440	0.011	0.5	ug/L	3219	Standard
|	Br	79	34459.9	1.7				ug/L	182	Standard
|	Se	82	167.7	15.3	1.0643	0.188	17.7	ug/L	53	Standard
|	Kr	83	53.7	11.4				ug/L	53	Standard
|	Y	89	354582.4	3.0				ug/L	364379	Standard
|	Rh	103	285914.2	2.4				ug/L	309795	Standard
|	Cd	111	244.0	8.3	0.0099	0.007	70.5	ug/L	234	Standard
|	Cd	114	62.5	9.3	0.0018	0.001	53.1	ug/L	54	Standard
[>	In	115	379930.3	1.6				ug/L	412290	Standard
[>	Tb	159	515143.8	0.7				ug/L	555028	Standard
|	Ho	165	526748.6	0.4				ug/L	564490	Standard
|	Pb	208	1026.7	3.5	0.0041	0.001	19.9	ug/L	947	Standard
|	Bi	209	286190.1	1.1				ug/L	326405	Standard
|	Th	232	375814.5	1.1				ug/L	411068	Standard
|	Cr-1	52	416.7	1.2	0.3040	0.005	1.7	ug/L	154	KED
|	Cr-1	53	68.0	5.9	0.5029	0.038	7.5	ug/L	16	KED
[>	Ge-1	72	8477.2	2.1				ug/L	7877	KED
|	As-2	75	72.0	8.4	1.3587	0.127	9.4	ug/L	3	KED
|	Y-1	89	13943.8	0.8				ug/L	12480	KED
|	Rh-1	103	78418.7	1.1				ug/L	78958	KED
|	Cd-1	111	4.0	43.3	0.0028	0.009	316.0	ug/L	3	KED
|	Cd-1	114	5.7	20.7	-0.0015	0.002	168.0	ug/L	6	KED
[>	In-1	115	8489.6	0.7				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.914
|	Cr	52		
|	Cr	53		
[>	Ge	72		99.100
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-02d 5X

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Cd	114	
In	115	92.151
Tb	159	92.814
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	107.626
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.031

Quantitative Analysis - Summary Report

Sample ID: 08-268-03d 5X

Sample Date/Time: Friday, September 02, 2022 08:21:40

Report Date/Time: Monday, September 05, 2022 08:13:28

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-03d 5X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	273757.0	2.7				ug/L	258379	Standard
|	Cr	52	13865.4	2.4	0.8475	0.007	0.8	ug/L	6656	Standard
|	Cr	53	824.4	6.9	0.5185	0.039	7.5	ug/L	323	Standard
>	Ge	72	176023.0	3.5				ug/L	174254	Standard
|	As	75	3858.3	2.4	1.3394	0.141	10.5	ug/L	2655	Standard
|	As-1	75	1024.7	1.4	1.1041	0.053	4.8	ug/L	-18	Standard
|	Se	77	69.7	3.0	0.2773	0.073	26.4	ug/L	52	Standard
|	Se	78	3467.4	3.1	1.0696	0.477	44.5	ug/L	3219	Standard
|	Br	79	4474.0	3.1				ug/L	182	Standard
|	Se	82	78.0	10.2	0.2203	0.070	31.6	ug/L	53	Standard
|	Kr	83	49.7	23.3				ug/L	53	Standard
|	Y	89	364995.3	3.2				ug/L	364379	Standard
|	Rh	103	299554.5	4.3				ug/L	309795	Standard
|	Cd	111	241.1	14.5	0.0053	0.011	208.7	ug/L	234	Standard
|	Cd	114	39.0	33.9	-0.0018	0.002	98.2	ug/L	54	Standard
>	In	115	396005.5	1.0				ug/L	412290	Standard
>	Tb	159	527752.9	1.3				ug/L	555028	Standard
|	Ho	165	538835.0	1.7				ug/L	564490	Standard
|	Pb	208	2192.1	1.4	0.0354	0.001	2.4	ug/L	947	Standard
|	Bi	209	297935.2	0.9				ug/L	326405	Standard
|	Th	232	384872.9	1.0				ug/L	411068	Standard
|	Cr-1	52	358.3	2.8	0.2267	0.012	5.1	ug/L	154	KED
|	Cr-1	53	44.0	8.2	0.2587	0.035	13.7	ug/L	16	KED
>	Ge-1	72	8606.6	0.5				ug/L	7877	KED
|	As-2	75	59.7	15.6	1.0987	0.185	16.8	ug/L	3	KED
|	Y-1	89	14057.6	2.4				ug/L	12480	KED
|	Rh-1	103	81534.7	0.7				ug/L	78958	KED
|	Cd-1	111	2.3	65.5	-0.0061	0.008	127.6	ug/L	3	KED
|	Cd-1	114	4.2	37.5	-0.0047	0.003	66.6	ug/L	6	KED
>	In-1	115	8699.0	0.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		105.952
|	Cr	52		
|	Cr	53		
>	Ge	72		101.015
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-03d 5X

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Cd	114	
In	115	96.050
Tb	159	95.086
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	109.269
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	117.868

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, September 02, 2022 08:26:16

Report Date/Time: Monday, September 05, 2022 08:13:30

Method File: C:\NexlONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220902A\QC Std 6.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	277322.8	1.8				ug/L	258379	Standard
|	Cr	52	328606.4	2.6	39.4625	0.331	0.8	ug/L	6656	Standard
|	Cr	53	37025.9	1.9	38.9538	0.272	0.7	ug/L	323	Standard
[>	Ge	72	183920.4	2.1				ug/L	174254	Standard
|	As	75	40705.8	2.2	41.2370	0.162	0.4	ug/L	2655	Standard
|	As-1	75	40115.4	2.3	40.6327	0.156	0.4	ug/L	-18	Standard
|	Se	77	2649.9	4.0	39.9257	1.013	2.5	ug/L	52	Standard
|	Se	78	12295.3	1.0	42.0594	0.623	1.5	ug/L	3219	Standard
|	Br	79	490.7	12.4				ug/L	182	Standard
|	Se	82	4574.4	3.3	39.4678	1.180	3.0	ug/L	53	Standard
|	Kr	83	54.0	7.4				ug/L	53	Standard
|	Y	89	381942.8	1.4				ug/L	364379	Standard
|	Rh	103	321503.6	1.8				ug/L	309795	Standard
|	Cd	111	123915.6	1.4	39.8686	0.678	1.7	ug/L	234	Standard
|	Cd	114	316652.5	0.4	40.4966	0.285	0.7	ug/L	54	Standard
[>	In	115	416701.7	0.6				ug/L	412290	Standard
[>	Tb	159	553928.5	0.4				ug/L	555028	Standard
|	Ho	165	561529.5	0.6				ug/L	564490	Standard
|	Pb	208	1597977.2	0.1	41.6695	0.177	0.4	ug/L	947	Standard
|	Bi	209	319035.7	1.0				ug/L	326405	Standard
|	Th	232	406571.1	0.4				ug/L	411068	Standard
|	Cr-1	52	32680.3	0.9	38.8076	0.666	1.7	ug/L	154	KED
|	Cr-1	53	3993.9	0.2	38.8076	0.504	1.3	ug/L	16	KED
[>	Ge-1	72	8602.9	1.2				ug/L	7877	KED
|	As-2	75	2160.5	2.2	41.7761	1.421	3.4	ug/L	3	KED
|	Y-1	89	14284.1	1.6				ug/L	12480	KED
|	Rh-1	103	84984.4	1.0				ug/L	78958	KED
|	Cd-1	111	7705.1	2.4	38.8069	0.833	2.1	ug/L	3	KED
|	Cd-1	114	19732.1	1.1	38.1904	0.520	1.4	ug/L	6	KED
[>	In-1	115	8742.8	0.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.332
|	Cr	52	98.656	
|	Cr	53	97.384	
[>	Ge	72		105.547
|	As	75	103.093	
|	As-1	75	101.582	
	Se	77	99.814	
	Se	78	105.148	
	Br	79		
	Se	82	98.670	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.672	

Sample ID: QC Std 6

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Cd	114	101.242	
In	115		101.070
Tb	159		99.802
Ho	165		
Pb	208	104.174	
Bi	209		
Th	232		
Cr-1	52	97.019	
Cr-1	53	97.019	
Ge-1	72		109.223
As-2	75	104.440	
Y-1	89		
Rh-1	103		
Cd-1	111	97.017	
Cd-1	114	95.476	
In-1	115		118.461

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, September 02, 2022 08:30:51

Report Date/Time: Monday, September 05, 2022 08:13:32

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	269151.8	2.9				ug/L	258379	Standard
|	Cr	52	163887.2	1.4	19.8604	0.336	1.7	ug/L	6656	Standard
|	Cr	53	18207.6	2.3	19.5581	0.189	1.0	ug/L	323	Standard
>	Ge	72	179634.7	2.3				ug/L	174254	Standard
|	As	75	21567.0	1.4	20.9790	0.353	1.7	ug/L	2655	Standard
|	As-1	75	19880.3	1.6	20.6290	0.145	0.7	ug/L	-18	Standard
|	Se	77	1382.1	5.6	20.9220	0.829	4.0	ug/L	52	Standard
|	Se	78	7782.8	1.7	21.6053	0.385	1.8	ug/L	3219	Standard
|	Br	79	390.3	6.0				ug/L	182	Standard
|	Se	82	2298.9	4.5	20.0633	0.624	3.1	ug/L	53	Standard
|	Kr	83	47.7	11.6				ug/L	53	Standard
|	Y	89	371607.3	2.2				ug/L	364379	Standard
|	Rh	103	311797.5	2.0				ug/L	309795	Standard
|	Cd	111	60892.1	1.1	20.0308	0.219	1.1	ug/L	234	Standard
|	Cd	114	153952.3	0.8	20.1652	0.045	0.2	ug/L	54	Standard
>	In	115	406785.3	1.0				ug/L	412290	Standard
>	Tb	159	538432.6	1.1				ug/L	555028	Standard
|	Ho	165	551153.9	0.4				ug/L	564490	Standard
|	Pb	208	784743.6	0.4	21.0409	0.163	0.8	ug/L	947	Standard
|	Bi	209	311727.4	0.1				ug/L	326405	Standard
|	Th	232	395699.4	0.3				ug/L	411068	Standard
|	Cr-1	52	16191.8	0.5	19.4734	0.452	2.3	ug/L	154	KED
|	Cr-1	53	1971.5	1.5	19.4185	0.666	3.4	ug/L	16	KED
>	Ge-1	72	8452.8	2.1				ug/L	7877	KED
|	As-2	75	1088.0	1.1	21.3818	0.209	1.0	ug/L	3	KED
|	Y-1	89	14019.5	1.3				ug/L	12480	KED
|	Rh-1	103	82789.5	0.4				ug/L	78958	KED
|	Cd-1	111	3768.2	1.9	19.0511	0.301	1.6	ug/L	3	KED
|	Cd-1	114	9815.6	0.8	19.0730	0.238	1.2	ug/L	6	KED
>	In-1	115	8705.2	0.5				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.170
|	Cr	52	99.302	
|	Cr	53	97.790	
>	Ge	72		103.088
|	As	75	104.895	
|	As-1	75	103.145	
|	Se	77	104.610	
|	Se	78	108.027	
|	Br	79		
|	Se	82	100.316	
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111	100.154	

Sample ID: QC Std 7

Report Date/Time: Monday, September 05, 2022 08:13:32

Cd	114	100.826	
In	115		98.665
Tb	159		97.010
Ho	165		
Pb	208	105.205	
Bi	209		
Th	232		
Cr-1	52	97.367	
Cr-1	53	97.092	
Ge-1	72		107.317
As-2	75	106.909	
Y-1	89		
Rh-1	103		
Cd-1	111	95.255	
Cd-1	114	95.365	
In-1	115		117.951

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, September 02, 2022 08:35:27

Report Date/Time: Monday, September 05, 2022 08:13:34

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	261141.9	2.2				ug/L	258379	Standard
|	Cr	52	6994.0	1.2	0.0350	0.015	41.5	ug/L	6656	Standard
|	Cr	53	412.0	1.1	0.0969	0.005	5.1	ug/L	323	Standard
[>	Ge	72	175546.3	2.9				ug/L	174254	Standard
|	As	75	2888.2	1.9	0.2437	0.042	17.2	ug/L	2655	Standard
|	As-1	75	28.5	91.7	0.0493	0.028	57.1	ug/L	-18	Standard
|	Se	77	65.0	4.6	0.2047	0.074	36.1	ug/L	52	Standard
|	Se	78	3445.1	1.9	1.0027	0.168	16.8	ug/L	3219	Standard
|	Br	79	303.3	3.2				ug/L	182	Standard
|	Se	82	57.3	9.6	0.0340	0.062	182.7	ug/L	53	Standard
|	Kr	83	41.7	18.3				ug/L	53	Standard
|	Y	89	360162.3	1.5				ug/L	364379	Standard
[	Rh	103	304776.8	1.7				ug/L	309795	Standard
|	Cd	111	225.8	4.3	0.0003	0.003	932.6	ug/L	234	Standard
|	Cd	114	43.8	17.2	-0.0011	0.001	96.7	ug/L	54	Standard
[>	In	115	395300.4	0.7				ug/L	412290	Standard
[>	Tb	159	529224.5	0.3				ug/L	555028	Standard
|	Ho	165	539100.8	0.4				ug/L	564490	Standard
|	Pb	208	902.3	3.5	-0.0000	0.001	3712.6	ug/L	947	Standard
|	Bi	209	307429.4	0.3				ug/L	326405	Standard
|	Th	232	386871.6	0.6				ug/L	411068	Standard
[	Cr-1	52	154.7	6.4	-0.0106	0.011	107.7	ug/L	154	KED
|	Cr-1	53	19.7	47.2	0.0268	0.092	344.8	ug/L	16	KED
[>	Ge-1	72	8352.1	1.1				ug/L	7877	KED
|	As-2	75	2.7	86.6	-0.0031	0.046	1486.5	ug/L	3	KED
|	Y-1	89	13868.1	0.9				ug/L	12480	KED
|	Rh-1	103	81492.1	1.0				ug/L	78958	KED
[	Cd-1	111	3.7	41.7	0.0010	0.008	775.1	ug/L	3	KED
|	Cd-1	114	1.8	26.1	-0.0093	0.001	10.5	ug/L	6	KED
[>	In-1	115	8542.5	0.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		101.070
|	Cr	52		
|	Cr	53		
[>	Ge	72		100.742
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	95.879
Tb	159	95.351
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.038
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.748

Quantitative Analysis - Summary Report

Sample ID: MB0826F1 2X

Sample Date/Time: Friday, September 02, 2022 08:40:20

Report Date/Time: Monday, September 05, 2022 08:13:36

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\MB0826F1 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	281288.4	2.1				ug/L	258379	Standard
|	Cr	52	7580.3	2.5	0.0405	0.008	20.4	ug/L	6656	Standard
|	Cr	53	420.7	3.5	0.0726	0.012	15.9	ug/L	323	Standard
>	Ge	72	186172.7	2.3				ug/L	174254	Standard
|	As	75	2922.7	4.2	0.0915	0.074	81.1	ug/L	2655	Standard
|	As-1	75	24.9	99.7	0.0440	0.025	57.9	ug/L	-18	Standard
|	Se	77	62.3	20.3	0.1045	0.200	191.4	ug/L	52	Standard
|	Se	78	3494.1	4.4	0.2501	0.406	162.3	ug/L	3219	Standard
|	Br	79	295.3	4.9				ug/L	182	Standard
|	Se	82	59.3	10.7	0.0208	0.061	291.3	ug/L	53	Standard
|	Kr	83	53.3	6.0				ug/L	53	Standard
|	Y	89	383839.2	2.2				ug/L	364379	Standard
|	Rh	103	322737.0	2.2				ug/L	309795	Standard
|	Cd	111	252.9	7.7	0.0046	0.005	115.5	ug/L	234	Standard
|	Cd	114	75.5	6.4	0.0026	0.001	27.1	ug/L	54	Standard
>	In	115	419189.2	1.2				ug/L	412290	Standard
>	Tb	159	550051.6	0.8				ug/L	555028	Standard
|	Ho	165	561409.2	0.8				ug/L	564490	Standard
|	Pb	208	1805.7	2.7	0.0228	0.001	6.5	ug/L	947	Standard
|	Bi	209	319346.0	0.5				ug/L	326405	Standard
|	Th	232	405812.8	0.7				ug/L	411068	Standard
|	Cr-1	52	182.0	8.5	0.0115	0.021	180.8	ug/L	154	KED
|	Cr-1	53	22.0	15.7	0.0390	0.032	82.5	ug/L	16	KED
>	Ge-1	72	8810.4	1.5				ug/L	7877	KED
|	As-2	75	2.7	78.1	-0.0063	0.039	610.9	ug/L	3	KED
|	Y-1	89	14617.5	1.1				ug/L	12480	KED
|	Rh-1	103	85589.0	0.3				ug/L	78958	KED
|	Cd-1	111	3.0	57.7	-0.0034	0.008	237.4	ug/L	3	KED
|	Cd-1	114	6.0	10.8	-0.0017	0.001	72.0	ug/L	6	KED
>	In-1	115	9092.0	1.4				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.867
|	Cr	52		
|	Cr	53		
>	Ge	72		106.840
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0826F1 2X

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Cd	114	
In	115	101.673
Tb	159	99.103
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	111.857
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	123.192

Quantitative Analysis - Summary Report

Sample ID: SB0826F1 2X

Sample Date/Time: Friday, September 02, 2022 08:44:55

Report Date/Time: Monday, September 05, 2022 08:13:37

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\SB0826F1 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	281913.7	1.8				ug/L	258379	Standard
|	Cr	52	318733.4	1.0	37.6226	0.555	1.5	ug/L	6656	Standard
|	Cr	53	35931.5	1.4	37.1745	0.577	1.6	ug/L	323	Standard
>	Ge	72	187675.8	2.3				ug/L	174254	Standard
|	As	75	39731.6	1.2	39.3200	0.541	1.4	ug/L	2655	Standard
|	As-1	75	39009.4	1.0	38.7340	0.743	1.9	ug/L	-18	Standard
|	Se	77	2584.9	1.3	38.1481	0.892	2.3	ug/L	52	Standard
|	Se	78	12022.4	4.0	39.6103	1.002	2.5	ug/L	3219	Standard
|	Br	79	292.3	1.4				ug/L	182	Standard
|	Se	82	4407.0	2.8	37.2351	0.848	2.3	ug/L	53	Standard
|	Kr	83	45.0	2.2				ug/L	53	Standard
|	Y	89	387305.3	2.5				ug/L	364379	Standard
|	Rh	103	327173.2	1.8				ug/L	309795	Standard
|	Cd	111	118539.7	1.4	37.7765	0.308	0.8	ug/L	234	Standard
|	Cd	114	303391.3	1.8	38.4353	0.423	1.1	ug/L	54	Standard
>	In	115	420628.3	0.8				ug/L	412290	Standard
>	Tb	159	554180.3	1.0				ug/L	555028	Standard
|	Ho	165	568594.2	1.1				ug/L	564490	Standard
|	Pb	208	1520847.8	1.0	39.6388	0.061	0.2	ug/L	947	Standard
|	Bi	209	320938.9	0.9				ug/L	326405	Standard
|	Th	232	406821.7	0.3				ug/L	411068	Standard
|	Cr-1	52	31819.7	1.6	37.0563	0.954	2.6	ug/L	154	KED
|	Cr-1	53	3942.2	2.1	37.5697	1.052	2.8	ug/L	16	KED
>	Ge-1	72	8771.4	2.0				ug/L	7877	KED
|	As-2	75	2071.2	2.4	39.2821	1.512	3.8	ug/L	3	KED
|	Y-1	89	14713.9	0.8				ug/L	12480	KED
|	Rh-1	103	86505.5	0.9				ug/L	78958	KED
|	Cd-1	111	7552.3	2.1	36.6964	1.390	3.8	ug/L	3	KED
|	Cd-1	114	19568.1	0.7	36.5272	0.662	1.8	ug/L	6	KED
>	In-1	115	9066.3	1.9				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		109.109
|	Cr	52		
|	Cr	53		
>	Ge	72		107.702
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0826F1 2X

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Cd	114	
In	115	102.022
Tb	159	99.847
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	111.361
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	122.845

Quantitative Analysis - Summary Report

Sample ID: 08-291-16e 2X F

Sample Date/Time: Friday, September 02, 2022 08:49:29

Report Date/Time: Monday, September 05, 2022 08:13:39

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16e 2X F.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	320164.1	3.1				ug/L	258379	Standard
|	Cr	52	18250.7	0.3	1.0649	0.053	5.0	ug/L	6656	Standard
|	Cr	53	815.0	2.3	0.3821	0.014	3.7	ug/L	323	Standard
[>	Ge	72	185871.2	2.4				ug/L	174254	Standard
|	As	75	3162.0	3.6	0.3559	0.134	37.8	ug/L	2655	Standard
|	As-1	75	220.9	30.6	0.2401	0.068	28.4	ug/L	-18	Standard
|	Se	77	70.7	19.1	0.2351	0.230	97.9	ug/L	52	Standard
|	Se	78	3584.8	2.7	0.7074	0.396	56.0	ug/L	3219	Standard
|	Br	79	2493.9	3.8				ug/L	182	Standard
|	Se	82	75.3	24.2	0.1577	0.144	91.2	ug/L	53	Standard
|	Kr	83	57.0	15.2				ug/L	53	Standard
|	Y	89	388432.2	2.8				ug/L	364379	Standard
|	Rh	103	310252.3	2.4				ug/L	309795	Standard
|	Cd	111	259.0	6.5	0.0085	0.006	66.4	ug/L	234	Standard
|	Cd	114	90.6	6.7	0.0048	0.001	16.1	ug/L	54	Standard
[>	In	115	409861.7	0.6				ug/L	412290	Standard
[>	Tb	159	545118.0	0.7				ug/L	555028	Standard
|	Ho	165	558179.6	0.4				ug/L	564490	Standard
|	Pb	208	1747.7	3.3	0.0217	0.001	5.7	ug/L	947	Standard
|	Bi	209	303439.4	0.2				ug/L	326405	Standard
|	Th	232	405075.8	0.2				ug/L	411068	Standard
|	Cr-1	52	332.3	4.0	0.1930	0.015	7.9	ug/L	154	KED
|	Cr-1	53	43.7	11.3	0.2523	0.046	18.4	ug/L	16	KED
[>	Ge-1	72	8666.6	0.4				ug/L	7877	KED
|	As-2	75	12.3	16.9	0.1807	0.040	22.3	ug/L	3	KED
|	Y-1	89	14597.5	1.2				ug/L	12480	KED
|	Rh-1	103	81583.3	1.4				ug/L	78958	KED
|	Cd-1	111	7.0	28.6	0.0169	0.010	58.9	ug/L	3	KED
|	Cd-1	114	6.8	37.0	0.0000	0.00443	141.2	ug/L	6	KED
[>	In-1	115	8864.4	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		123.913
|	Cr	52		
|	Cr	53		
[>	Ge	72		106.667
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-291-16e 2X F

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Cd	114	
In	115	99.411
Tb	159	98.214
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	110.031
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	120.109

Quantitative Analysis - Summary Report

Sample ID: 08-291-18e 2X F

Sample Date/Time: Friday, September 02, 2022 08:54:03

Report Date/Time: Monday, September 05, 2022 08:13:41

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-18e 2X F.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	339255.2	1.8				ug/L	258379	Standard
|	Cr	52	14328.9	2.4	0.5609	0.009	1.7	ug/L	6656	Standard
|	Cr	53	680.0	3.7	0.2228	0.028	12.8	ug/L	323	Standard
>	Ge	72	182044.9	2.1				ug/L	174254	Standard
|	As	75	5729.9	1.6	3.2497	0.075	2.3	ug/L	2655	Standard
|	As-1	75	2832.1	1.8	2.9159	0.033	1.1	ug/L	-18	Standard
|	Se	77	69.7	10.4	0.2373	0.089	37.4	ug/L	52	Standard
|	Se	78	3616.8	1.5	1.2128	0.237	19.5	ug/L	3219	Standard
|	Br	79	10441.1	2.1				ug/L	182	Standard
|	Se	82	107.7	2.3	0.4586	0.025	5.5	ug/L	53	Standard
|	Kr	83	54.0	18.2				ug/L	53	Standard
|	Y	89	377257.5	1.2				ug/L	364379	Standard
|	Rh	103	307199.5	2.5				ug/L	309795	Standard
|	Cd	111	251.6	1.4	0.0081	0.001	13.9	ug/L	234	Standard
|	Cd	114	90.6	13.9	0.0051	0.002	32.2	ug/L	54	Standard
>	In	115	399735.1	0.6				ug/L	412290	Standard
>	Tb	159	537248.3	0.5				ug/L	555028	Standard
|	Ho	165	546919.3	0.4				ug/L	564490	Standard
|	Pb	208	958.3	0.8	0.0011	0.000	25.4	ug/L	947	Standard
|	Bi	209	289601.3	0.5				ug/L	326405	Standard
|	Th	232	394867.9	0.5				ug/L	411068	Standard
|	Cr-1	52	191.0	2.9	0.0426	0.010	22.4	ug/L	154	KED
|	Cr-1	53	26.7	15.2	0.1073	0.043	39.9	ug/L	16	KED
>	Ge-1	72	8061.6	1.1				ug/L	7877	KED
|	As-2	75	138.3	6.0	2.8003	0.148	5.3	ug/L	3	KED
|	Y-1	89	13910.8	3.3				ug/L	12480	KED
|	Rh-1	103	77121.6	0.8				ug/L	78958	KED
|	Cd-1	111	5.7	66.8	0.0120	0.020	169.7	ug/L	3	KED
|	Cd-1	114	5.4	22.2	-0.0021	0.002	116.8	ug/L	6	KED
>	In-1	115	8398.4	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		131.302
|	Cr	52		
|	Cr	53		
>	Ge	72		104.471
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-291-18e 2X F

Report Date/Time: Monday, September 05, 2022 08:13:41

Cd	114	
In	115	96.955
Tb	159	96.797
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	102.350
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	113.794

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eD 2X

Sample Date/Time: Friday, September 02, 2022 09:00:13

Report Date/Time: Monday, September 05, 2022 08:13:43

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eD 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	325363.5	3.6				ug/L	258379	Standard
|	Cr	52	18913.2	2.5	1.1026	0.022	2.0	ug/L	6656	Standard
|	Cr	53	858.7	3.7	0.4100	0.036	8.8	ug/L	323	Standard
[>	Ge	72	182947.2	2.6				ug/L	174254	Standard
|	As	75	3213.1	3.9	0.4647	0.074	15.9	ug/L	2655	Standard
|	As-1	75	256.3	14.0	0.2803	0.042	14.9	ug/L	-18	Standard
|	Se	77	59.7	9.2	0.0799	0.102	128.1	ug/L	52	Standard
|	Se	78	3613.8	4.3	1.1063	0.324	29.3	ug/L	3219	Standard
|	Br	79	2733.3	2.7				ug/L	182	Standard
|	Se	82	79.7	8.1	0.2088	0.069	33.3	ug/L	53	Standard
|	Kr	83	50.3	16.7				ug/L	53	Standard
|	Y	89	379659.6	3.6				ug/L	364379	Standard
|	Rh	103	307010.3	1.5				ug/L	309795	Standard
|	Cd	111	240.8	1.5	0.0048	0.001	26.3	ug/L	234	Standard
|	Cd	114	59.1	6.2	0.0009	0.000	45.5	ug/L	54	Standard
[>	In	115	398486.1	1.1				ug/L	412290	Standard
[>	Tb	159	526161.6	0.9				ug/L	555028	Standard
|	Ho	165	537323.0	0.4				ug/L	564490	Standard
|	Pb	208	736.7	4.9	-0.0044	0.001	21.6	ug/L	947	Standard
|	Bi	209	291001.7	0.4				ug/L	326405	Standard
|	Th	232	387476.2	1.4				ug/L	411068	Standard
|	Cr-1	52	331.7	0.6	0.2132	0.004	1.8	ug/L	154	KED
|	Cr-1	53	46.0	17.3	0.2984	0.077	25.8	ug/L	16	KED
[>	Ge-1	72	8228.0	1.2				ug/L	7877	KED
|	As-2	75	10.7	39.0	0.1589	0.082	51.8	ug/L	3	KED
|	Y-1	89	13755.3	0.6				ug/L	12480	KED
|	Rh-1	103	78904.3	0.7				ug/L	78958	KED
|	Cd-1	111	3.3	45.8	-0.0009	0.008	812.8	ug/L	3	KED
|	Cd-1	114	4.0	41.4	-0.0050	0.003	68.1	ug/L	6	KED
[>	In-1	115	8607.0	1.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		125.925
|	Cr	52		
|	Cr	53		
[>	Ge	72		104.989
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-291-16eD 2X

Report Date/Time: Monday, September 05, 2022 08:13:43

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Cd	114	
In	115	96.652
Tb	159	94.799
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	104.463
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.621

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eL 10X

Sample Date/Time: Friday, September 02, 2022 09:04:47

Report Date/Time: Monday, September 05, 2022 08:13:45

Method File: C:\NexIONData_kmckinney\MethodX220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSetX220902A\08-291-16eL 10X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	280446.7	3.9				ug/L	258379	Standard
|	Cr	52	10051.5	2.1	0.3440	0.031	9.1	ug/L	6656	Standard
|	Cr	53	488.3	4.0	0.1455	0.027	18.8	ug/L	323	Standard
>	Ge	72	178324.3	1.6				ug/L	174254	Standard
|	As	75	2894.3	2.1	0.1985	0.033	16.5	ug/L	2655	Standard
|	As-1	75	4.5	723.7	0.0236	0.035	146.1	ug/L	-18	Standard
|	Se	77	58.0	13.7	0.0752	0.118	157.2	ug/L	52	Standard
|	Se	78	3467.1	3.0	0.8396	0.332	39.6	ug/L	3219	Standard
|	Br	79	757.0	3.7				ug/L	182	Standard
|	Se	82	52.3	8.0	-0.0205	0.031	151.9	ug/L	53	Standard
|	Kr	83	45.7	10.3				ug/L	53	Standard
|	Y	89	365345.8	1.9				ug/L	364379	Standard
|	Rh	103	298382.4	2.4				ug/L	309795	Standard
|	Cd	111	229.6	7.0	0.0025	0.005	211.4	ug/L	234	Standard
|	Cd	114	47.5	24.1	-0.0005	0.002	297.3	ug/L	54	Standard
>	In	115	390714.4	0.3				ug/L	412290	Standard
>	Tb	159	512095.1	0.6				ug/L	555028	Standard
|	Ho	165	523881.0	0.5				ug/L	564490	Standard
|	Pb	208	701.3	1.3	-0.0049	0.000	7.6	ug/L	947	Standard
|	Bi	209	292784.3	0.7				ug/L	326405	Standard
|	Th	232	376201.1	0.4				ug/L	411068	Standard
|	Cr-1	52	194.0	5.1	0.0440	0.009	21.2	ug/L	154	KED
|	Cr-1	53	22.3	22.5	0.0596	0.050	83.3	ug/L	16	KED
>	Ge-1	72	8137.3	1.5				ug/L	7877	KED
|	As-2	75	4.3	26.6	0.0322	0.023	72.4	ug/L	3	KED
|	Y-1	89	13713.6	1.6				ug/L	12480	KED
|	Rh-1	103	78767.3	1.8				ug/L	78958	KED
|	Cd-1	111	5.3	39.0	0.0095	0.011	112.2	ug/L	3	KED
|	Cd-1	114	4.6	53.4	-0.0039	0.005	120.2	ug/L	6	KED
>	In-1	115	8570.1	1.9				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.541
|	Cr	52		
|	Cr	53		
>	Ge	72		102.336
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-291-16eL 10X

Report Date/Time: Monday, September 05, 2022 08:13:45

Cd	114	
In	115	94.767
Tb	159	92.265
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.311
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.121

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eMS 2X

Sample Date/Time: Friday, September 02, 2022 09:09:21

Report Date/Time: Monday, September 05, 2022 08:13:47

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMS 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	322724.7	2.5				ug/L	258379	Standard
|	Cr	52	334706.3	1.7	34.4386	0.277	0.8	ug/L	6656	Standard
|	Cr	53	37265.9	3.6	33.6350	0.446	1.3	ug/L	323	Standard
[>	Ge	72	181443.5	3.3				ug/L	174254	Standard
|	As	75	42716.1	3.7	44.0551	0.248	0.6	ug/L	2655	Standard
|	As-1	75	41999.8	3.5	43.1199	0.159	0.4	ug/L	-18	Standard
|	Se	77	2887.0	4.8	44.1724	0.719	1.6	ug/L	52	Standard
|	Se	78	12928.2	4.0	45.8678	0.600	1.3	ug/L	3219	Standard
|	Br	79	2599.9	3.1				ug/L	182	Standard
|	Se	82	4766.5	3.7	41.7092	0.543	1.3	ug/L	53	Standard
|	Kr	83	53.7	7.8				ug/L	53	Standard
|	Y	89	378521.4	1.9				ug/L	364379	Standard
|	Rh	103	300028.0	1.6				ug/L	309795	Standard
|	Cd	111	117116.3	0.4	39.7462	0.222	0.6	ug/L	234	Standard
|	Cd	114	296789.8	0.7	40.0385	0.435	1.1	ug/L	54	Standard
[>	In	115	395037.1	0.6				ug/L	412290	Standard
[>	Tb	159	527923.0	0.2				ug/L	555028	Standard
|	Ho	165	536199.7	0.6				ug/L	564490	Standard
|	Pb	208	1451427.1	0.3	39.7109	0.177	0.4	ug/L	947	Standard
|	Bi	209	288477.3	0.7				ug/L	326405	Standard
|	Th	232	389106.6	0.2				ug/L	411068	Standard
|	Cr-1	52	30740.4	0.4	37.8212	0.451	1.2	ug/L	154	KED
|	Cr-1	53	3759.5	2.0	37.8541	1.117	2.9	ug/L	16	KED
[>	Ge-1	72	8302.1	1.4				ug/L	7877	KED
|	As-2	75	2072.8	2.3	41.5205	0.696	1.7	ug/L	3	KED
|	Y-1	89	13849.7	0.4				ug/L	12480	KED
|	Rh-1	103	77881.0	0.4				ug/L	78958	KED
|	Cd-1	111	7367.6	2.3	37.7445	0.821	2.2	ug/L	3	KED
|	Cd-1	114	19138.9	1.2	37.6776	0.454	1.2	ug/L	6	KED
[>	In-1	115	8595.0	0.6				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		124.904
|	Cr	52		
|	Cr	53		
[>	Ge	72		104.126
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-291-16eMS 2X

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Cd	114	
In	115	95.815
Tb	159	95.116
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	105.403
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.459

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eMSD 2X

Sample Date/Time: Friday, September 02, 2022 09:13:56

Report Date/Time: Monday, September 05, 2022 08:13:48

Method File: C:\NexlONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220902A\08-291-16eMSD 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	324160.9	1.2				ug/L	258379	Standard
|	Cr	52	337510.1	1.2	34.5733	0.284	0.8	ug/L	6656	Standard
|	Cr	53	37297.3	1.9	33.5169	0.266	0.8	ug/L	323	Standard
[>	Ge	72	180303.8	2.4				ug/L	174254	Standard
|	As	75	42762.0	2.4	44.4076	0.032	0.1	ug/L	2655	Standard
|	As-1	75	42332.6	2.5	43.7372	0.140	0.3	ug/L	-18	Standard
|	Se	77	2916.6	3.6	44.9362	1.183	2.6	ug/L	52	Standard
|	Se	78	12967.2	1.7	46.4661	0.966	2.1	ug/L	3219	Standard
|	Br	79	2618.6	2.4				ug/L	182	Standard
|	Se	82	4912.2	1.9	43.2789	0.227	0.5	ug/L	53	Standard
|	Kr	83	51.7	6.2				ug/L	53	Standard
|	Y	89	376337.7	2.1				ug/L	364379	Standard
|	Rh	103	303803.9	3.0				ug/L	309795	Standard
|	Cd	111	117246.7	1.5	40.1043	0.205	0.5	ug/L	234	Standard
|	Cd	114	297377.8	0.7	40.4370	0.494	1.2	ug/L	54	Standard
[>	In	115	391954.3	1.7				ug/L	412290	Standard
[>	Tb	159	521432.4	0.4				ug/L	555028	Standard
|	Ho	165	534421.4	0.4				ug/L	564490	Standard
|	Pb	208	1454358.3	0.6	40.2869	0.257	0.6	ug/L	947	Standard
|	Bi	209	288993.7	1.0				ug/L	326405	Standard
|	Th	232	388848.1	0.4				ug/L	411068	Standard
|	Cr-1	52	31024.3	1.0	38.8654	0.781	2.0	ug/L	154	KED
|	Cr-1	53	3901.2	1.8	39.9970	1.097	2.7	ug/L	16	KED
[>	Ge-1	72	8155.0	1.0				ug/L	7877	KED
|	As-2	75	2142.5	1.2	43.6936	0.071	0.2	ug/L	3	KED
|	Y-1	89	14018.9	0.9				ug/L	12480	KED
|	Rh-1	103	78080.5	0.8				ug/L	78958	KED
|	Cd-1	111	7360.6	2.2	37.7680	1.555	4.1	ug/L	3	KED
|	Cd-1	114	19515.8	1.2	38.4683	0.856	2.2	ug/L	6	KED
[>	In-1	115	8586.7	2.4				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		125.460
|	Cr	52		
|	Cr	53		
[>	Ge	72		103.472
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-291-16eMSD 2X

Report Date/Time: Monday, September 05, 2022 08:13:48

Cd	114	
In	115	95.068
Tb	159	93.947
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.536
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.346

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, September 02, 2022 09:18:32

Report Date/Time: Monday, September 05, 2022 08:13:50

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	286837.5	2.1				ug/L	258379	Standard
|	Cr	52	335339.3	2.4	38.9258	0.204	0.5	ug/L	6656	Standard
|	Cr	53	37551.3	1.5	38.1940	0.552	1.4	ug/L	323	Standard
[>	Ge	72	186928.9	1.7				ug/L	174254	Standard
|	As	75	42182.7	2.3	42.1030	0.437	1.0	ug/L	2655	Standard
|	As-1	75	41515.4	2.4	41.3716	0.382	0.9	ug/L	-18	Standard
|	Se	77	2858.3	3.1	42.4305	1.066	2.5	ug/L	52	Standard
|	Se	78	12677.0	3.2	42.8849	1.297	3.0	ug/L	3219	Standard
|	Br	79	224.0	4.7				ug/L	182	Standard
|	Se	82	4689.8	3.5	39.8062	0.843	2.1	ug/L	53	Standard
|	Kr	83	46.3	22.7				ug/L	53	Standard
|	Y	89	381348.6	2.0				ug/L	364379	Standard
|	Rh	103	317857.9	2.1				ug/L	309795	Standard
|	Cd	111	123769.8	0.3	40.3996	0.023	0.1	ug/L	234	Standard
|	Cd	114	310843.1	0.6	40.3301	0.171	0.4	ug/L	54	Standard
[>	In	115	410734.1	0.3				ug/L	412290	Standard
[>	Tb	159	543021.8	0.4				ug/L	555028	Standard
|	Ho	165	556946.9	1.1				ug/L	564490	Standard
|	Pb	208	1566657.1	0.4	41.6728	0.053	0.1	ug/L	947	Standard
|	Bi	209	314867.6	0.9				ug/L	326405	Standard
|	Th	232	399084.3	0.2				ug/L	411068	Standard
|	Cr-1	52	31974.4	1.4	37.6261	0.740	2.0	ug/L	154	KED
|	Cr-1	53	3983.2	1.7	38.3598	0.916	2.4	ug/L	16	KED
[>	Ge-1	72	8679.6	0.7				ug/L	7877	KED
|	As-2	75	2097.2	3.2	40.1793	1.245	3.1	ug/L	3	KED
|	Y-1	89	14664.2	1.2				ug/L	12480	KED
|	Rh-1	103	84298.0	0.9				ug/L	78958	KED
|	Cd-1	111	7853.2	0.8	37.9222	0.449	1.2	ug/L	3	KED
|	Cd-1	114	20542.0	1.6	38.1181	0.774	2.0	ug/L	6	KED
[>	In-1	115	9119.0	0.5				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		111.014
|	Cr	52	97.314	
|	Cr	53	95.485	
[>	Ge	72		107.274
|	As	75	105.257	
|	As-1	75	103.429	
|	Se	77	106.076	
	Se	78	107.212	
	Br	79		
	Se	82	99.515	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.999	

Sample ID: QC Std 6

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Cd	114	100.825	
In	115		99.623
Tb	159		97.837
Ho	165		
Pb	208	104.182	
Bi	209		
Th	232		
Cr-1	52	94.065	
Cr-1	53	95.900	
Ge-1	72		110.197
As-2	75	100.448	
Y-1	89		
Rh-1	103		
Cd-1	111	94.806	
Cd-1	114	95.295	
In-1	115		123.559

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, September 02, 2022 09:30:04

Report Date/Time: Monday, September 05, 2022 08:13:53

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	281198.7	2.1				ug/L	258379	Standard
|	Cr	52	169214.6	2.3	19.6110	0.025	0.1	ug/L	6656	Standard
|	Cr	53	18968.6	1.8	19.5001	0.074	0.4	ug/L	323	Standard
[>	Ge	72	183278.0	3.3				ug/L	174254	Standard
|	As	75	21954.1	3.9	20.9179	0.345	1.7	ug/L	2655	Standard
|	As-1	75	20107.8	3.1	20.4492	0.146	0.7	ug/L	-18	Standard
|	Se	77	1441.4	1.9	21.4205	0.308	1.4	ug/L	52	Standard
|	Se	78	7999.9	3.3	21.8862	0.712	3.3	ug/L	3219	Standard
|	Br	79	191.7	4.4				ug/L	182	Standard
|	Se	82	2311.9	0.9	19.7859	0.636	3.2	ug/L	53	Standard
|	Kr	83	45.3	7.7				ug/L	53	Standard
|	Y	89	373644.0	2.1				ug/L	364379	Standard
|	Rh	103	305933.6	2.9				ug/L	309795	Standard
|	Cd	111	59914.0	1.6	20.2689	0.236	1.2	ug/L	234	Standard
|	Cd	114	150753.3	1.2	20.3069	0.174	0.9	ug/L	54	Standard
[>	In	115	395555.6	1.1				ug/L	412290	Standard
[>	Tb	159	521558.0	0.6				ug/L	555028	Standard
|	Ho	165	533053.3	0.7				ug/L	564490	Standard
|	Pb	208	754021.0	0.7	20.8700	0.071	0.3	ug/L	947	Standard
|	Bi	209	301287.7	0.7				ug/L	326405	Standard
|	Th	232	386610.6	0.4				ug/L	411068	Standard
|	Cr-1	52	15980.9	0.5	18.4330	0.318	1.7	ug/L	154	KED
|	Cr-1	53	1961.1	1.0	18.5251	0.245	1.3	ug/L	16	KED
[>	Ge-1	72	8807.0	1.3				ug/L	7877	KED
|	As-2	75	1042.7	1.0	19.6615	0.288	1.5	ug/L	3	KED
|	Y-1	89	14734.6	0.9				ug/L	12480	KED
|	Rh-1	103	83258.6	1.4				ug/L	78958	KED
|	Cd-1	111	3876.2	2.2	18.4343	0.242	1.3	ug/L	3	KED
|	Cd-1	114	10028.1	0.4	18.3308	0.143	0.8	ug/L	6	KED
[>	In-1	115	9253.7	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		108.832
|	Cr	52		
|	Cr	53		
[>	Ge	72		105.179
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: QC Std 7

Report Date/Time: Monday, September 05, 2022 08:13:53

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Cd	114	
In	115	95.941
Tb	159	93.970
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	111.814
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	125.384

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, September 02, 2022 09:34:38

Report Date/Time: Monday, September 05, 2022 08:13:55

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	264625.8	1.5				ug/L	258379	Standard
|	Cr	52	7140.8	2.4	0.0417	0.013	31.7	ug/L	6656	Standard
|	Cr	53	426.7	4.3	0.1071	0.021	19.8	ug/L	323	Standard
[>	Ge	72	174092.6	1.9				ug/L	174254	Standard
|	As	75	2931.1	6.1	0.3180	0.141	44.2	ug/L	2655	Standard
|	As-1	75	25.7	90.4	0.0460	0.024	52.5	ug/L	-18	Standard
|	Se	77	53.7	19.6	0.0275	0.169	614.2	ug/L	52	Standard
|	Se	78	3486.8	5.1	1.3431	0.552	41.1	ug/L	3219	Standard
|	Br	79	170.3	9.9				ug/L	182	Standard
|	Se	82	53.0	12.4	-0.0024	0.063	2581.7	ug/L	53	Standard
|	Kr	83	43.3	9.6				ug/L	53	Standard
|	Y	89	351703.9	1.7				ug/L	364379	Standard
[	Rh	103	293763.3	1.9				ug/L	309795	Standard
|	Cd	111	221.3	2.7	0.0010	0.002	214.4	ug/L	234	Standard
|	Cd	114	49.6	8.0	-0.0001	0.001	507.9	ug/L	54	Standard
[>	In	115	383977.3	0.2				ug/L	412290	Standard
[>	Tb	159	501513.5	0.8				ug/L	555028	Standard
|	Ho	165	513931.5	0.3				ug/L	564490	Standard
|	Pb	208	878.7	1.4	0.0007	0.000	65.9	ug/L	947	Standard
|	Bi	209	293768.1	0.5				ug/L	326405	Standard
|	Th	232	371203.6	0.5				ug/L	411068	Standard
[	Cr-1	52	149.0	7.1	-0.0188	0.014	74.4	ug/L	154	KED
|	Cr-1	53	20.3	10.2	0.0324	0.020	61.3	ug/L	16	KED
[>	Ge-1	72	8409.5	0.7				ug/L	7877	KED
|	As-2	75	1.0	100.0	-0.0365	0.020	54.2	ug/L	3	KED
|	Y-1	89	14138.7	1.4				ug/L	12480	KED
|	Rh-1	103	80360.1	0.3				ug/L	78958	KED
[	Cd-1	111	2.3	99.0	-0.0064	0.011	177.4	ug/L	3	KED
|	Cd-1	114	5.0	39.7	-0.0035	0.004	109.3	ug/L	6	KED
[>	In-1	115	9026.8	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		102.418
|	Cr	52		
|	Cr	53		
[>	Ge	72		99.907
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, September 05, 2022 08:13:55

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]	Cd	114	
[>	In	115	93.133
[>	Tb	159	90.358
]	Ho	165	
]	Pb	208	
]	Bi	209	
]	Th	232	
]	Cr-1	52	
]	Cr-1	53	
[>	Ge-1	72	106.767
]	As-2	75	
]	Y-1	89	
]	Rh-1	103	
]	Cd-1	111	
]	Cd-1	114	
[>	In-1	115	122.309

Dissolved Metals
EPA 6010D/200.8/7470A Data



KH 8/30/22

Summary

Worksheet Name	B220830A.esws	Created Date/Time (local)	8/30/2022 8:29:18 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	8/30/2022 3:29:18 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaeepoul
File Path	C:\Users\kkhazaeepoul\Documents\Agilent\ICP Expert\My Results\B220830A.esws		

Notes



Results

Solution Label	Mn (257.610 nm)
Blank	0.00 (ppb)
Standard 5	10.00 (ppb)
Standard 4	100.00 (ppb)
Standard 3	1000.00 (ppb)
Standard 2	2500.00 (ppb)
Standard 1	5000.00 (ppb)
Si 100	
Si 1000	
Si 5000	
ICV	1007.64 (ppb)
ICB	-0.07 u (ppb)
LLV	10.36 (ppb)
CCV	1000.93 (ppb)
CCB	0.02 u (ppb)
ICSA	1.56 (ppb)
ICSAB	446.15 (ppb)
08-233-01a(0829PM1)	147.24 (ppb)
MB0829D1 X 1.11 30	0.00 u (ppb)
SB0829D1 X 1.11 30 400	483.23 (ppb)
08-268-01d X 1.11	4207.42 (ppb)
08-268-02d X 1.11	4487.79 (ppb)
08-268-03d X 1.11	160.48 (ppb)
MB0830SM1	5.07 (ppb)
SB0830SM1	7.56 (ppb)
CCV	1005.95 (ppb)
CCB	-0.03 u (ppb)
08-300-01a	13943.93 o (ppb)
08-300-01a D	15354.73 o (ppb)
08-300-01a L	2967.39 (ppb)
08-300-01a MS	17014.15 o (ppb)
08-300-01a MSD	25215.20 o (ppb)
08-268-03d DX 1.11	160.98 (ppb)
08-268-03d L	32.42 (ppb)

Test Report



Agilent Technologies

Solution Label	Mn (257.610 nm)
08-268-03d MS X 1.11	644.96 (ppb)
08-268-03d MSD X 1.11	639.29 (ppb)
08-268-04d X 1.11	31.25 (ppb)
CCV	1008.42 (ppb)
CCB	0.03 u (ppb)
08-268-05d X 1.11	72.72 (ppb)
08-268-06d X 1.11	1276.69 (ppb)
08-268-07d X 1.11	101.17 (ppb)
08-268-08d X 1.11	134.85 (ppb)
08-268-09d X 1.11	71.59 (ppb)
MB0830WM2	1.54 (ppb)
SB0830WM2	0.92 (ppb)
08-253-02g	850.26 (ppb)
08-253-02g D	839.85 (ppb)
08-253-02g L	174.44 (ppb)
CCV	1004.97 (ppb)
CCB	0.19 (ppb)



KAM 9-5-22

Summary

Worksheet Name	B220901A.esws	Created Date/Time (local)	9/1/2022 8:57:22 AM
Instrument Name	MY2002CQ14	Created Date/Time (GMT)	9/1/2022 3:57:22 PM
Software Version	7.5.0.11789	Workstation Name	ICP
Firmware Version	5174	Report Generated By	OSE\kkhazaepoul
File Path	C:\Users\kkhazaepoul\Documents\Agilent\ICP Expert\My Results\B220901A.esws		

Notes



Results

Solution Label	Mn (257.610 nm)
Blank	0.00 (ppb)
Standard 5	10.00 (ppb)
Standard 4	100.00 (ppb)
Standard 3	1000.00 (ppb)
Standard 2	2500.00 (ppb)
Standard 1	5000.00 (ppb)
SI 100	
SI 1000	
SI 5000	
ICV	1028.41 (ppb)
ICB	0.25 (ppb)
LLV	10.65 (ppb)
CCV	994.44 (ppb)
CCB	0.28 (ppb)
ICSA	1.37 (ppb)
ICSAB	437.42 (ppb)
MB0901TM1	0.95 (ppb)
SB0901TM1	1.18 (ppb)
08-160-07	1236.92 (ppb)
08-160-07 D	1250.94 (ppb)
08-160-07 L	265.21 (ppb)
08-160-07 MS	1261.38 (ppb)
08-160-07 MSD	1257.17 (ppb)
08-261-01	280.08 (ppb)
CCV	1033.31 (ppb)
CCB	0.31 (ppb)
09-139-04	477.86 (ppb)
09-139-06	347.67 (ppb)
09-139-08	265.61 (ppb)
SPK# 1	0.26 (ppb)
MB0901WM1	0.02 u (ppb)
SB0901WM1	99.27 (ppb)
08-238-05c	0.14 (ppb)
08-238-05c D	-0.01 u (ppb)
08-238-05c L	1.40 (ppb)
08-238-05c MS	99.55 (ppb)

Test Report



Agilent Technologies

Solution Label	Mn (257.610 nm)
CCV	1039.45 (ppb)
CCB	0.52 (ppb)
08-238-05c MSD	101.64 (ppb)
08-268-01d(FF-D)	4306.73 (ppb)
08-268-01d(FF-D) X 5	926.53 (ppb)
CCV	1024.84 (ppb)
CCB	-0.09 u (ppb)

Report Generated By Teledyne Leeman QuickTrace

Analyst: JBadger,RR

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\09 September 2022\I220902W1.wszf

Creation Date: 9/2/2022 9:40:14 AM

Comment:

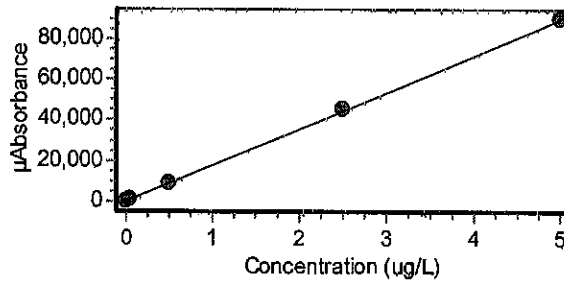
Kam
9-2-22

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	09/02/22 10:01:44 am	0.00000	21	101.97			N/A
Standard #1	STD	09/02/22 10:04:16 am	0.01000	183	6.10	-9.46%		N/A
Standard #2	STD	09/02/22 10:06:48 am	0.05000	881	1.39	-3.93%		N/A
Standard #3	STD	09/02/22 10:09:20 am	0.50000	9161	0.26	2.02%		N/A
Standard #4	STD	09/02/22 10:11:52 am	2.50000	45134	0.09	0.71%		N/A
Standard #5	STD	09/02/22 10:14:24 am	5.00000	89431	0.14	-0.20%		N/A

Calibration

Equation: Abs = 17917.537x + 20.611
 R2: 0.99997 RSE: 6.04%
 SEE: 236.4133
 Flags:



ICV	ICV	09/02/22 10:17:02 am	2.52040	45181	0.11			100.82
ICB	ICB	09/02/22 10:19:34 am	-0.00055	11	103.56			N/A
CCV	CCV	09/02/22 10:22:06 am	2.51900	45154	0.19			100.76
CCB	CCB	09/02/22 10:24:38 am	-0.00275	-29	24.55			N/A
MB0828F1	UNK	09/02/22 10:27:09 am	-0.00124	-2	65.69			N/A
SB0828F1	UNK	09/02/22 10:29:41 am	2.35020	42130	0.12			N/A
08-298-01c	UNK	09/02/22 10:32:13 am	-0.00349	-42	32.01			N/A
08-298-01c D	UNK	09/02/22 10:34:45 am	0.00110	40	130.65			N/A
08-298-01c L	UNK	09/02/22 10:38:28 am	-0.00834	-129	9.04			N/A
08-298-01c MS	UNK	09/02/22 10:41:01 am	2.34490	42036	0.21			N/A
08-298-01c MSD	UNK	09/02/22 10:43:33 am	2.38310	42720	0.15			N/A
08-298-02c	UNK	09/02/22 10:46:06 am	0.00082	35	41.63			N/A
08-268-01d	UNK	09/02/22 10:48:38 am	0.00355	84	35.39			N/A
08-268-02d	UNK	09/02/22 10:51:09 am	-0.00050	12	106.28			N/A
CCV	CCV	09/02/22 10:53:42 am	2.51310	45050	0.19			100.53
CCB	CCB	09/02/22 10:56:13 am	-0.00473	-64	4.55			N/A
08-268-03d	UNK	09/02/22 10:58:45 am	-0.00084	6	81.33			N/A
08-268-04d	UNK	09/02/22 11:01:17 am	0.00489	108	15.06			N/A
08-268-05d	UNK	09/02/22 11:03:50 am	0.00487	108	7.68			N/A
08-268-06d	UNK	09/02/22 11:06:22 am	0.00440	100	5.67			N/A
08-268-07d	UNK	09/02/22 11:08:55 am	0.00012	23	573.28			N/A
08-268-08d	UNK	09/02/22 11:11:27 am	-0.00193	-14	66.02			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
08-268-09d	UNK	09/02/22 11:13:59 am	0.00118	42	78.23			N/A
CCV	CCV	09/02/22 11:16:31 am	2.27640	40808	0.06			91.06
CCB	CCB	09/02/22 11:22:57 am	-0.00038	14	78.30			N/A
MB0902W1	UNK	09/02/22 11:25:28 am	0.00141	46	61.76			N/A
SB0902W1	UNK	09/02/22 11:28:00 am	2.23820	40124	0.15			N/A
08-268-02c	UNK	09/02/22 11:30:32 am	-0.00050	12	100.51			N/A
08-268-02cD	UNK	09/02/22 11:33:04 am	0.00018	24	369.22			N/A
08-268-02cL	UNK	09/02/22 11:35:37 am	-0.00258	-26	9.48			N/A
08-268-02cMS	UNK	09/02/22 11:38:09 am	2.23330	40036	0.13			N/A
08-268-02cMSD	UNK	09/02/22 11:40:42 am	2.20750	39574	0.11			N/A
08-268-02cRS	UNK	09/02/22 11:43:14 am	0.00251	66	10.14			N/A
08-268-04c	UNK	09/02/22 11:45:46 am	0.00193	55	30.08			N/A
08-268-03c	UNK	09/02/22 11:51:43 am	-0.00214	-18	33.83			N/A
CCV	CCV	09/02/22 11:54:15 am	2.28370	40940	0.06			91.35
CCB	CCB	09/02/22 11:56:47 am	-0.00709	-106	7.43			N/A
08-268-04c	UNK	09/02/22 11:59:18 am	0.00074	34	70.22			N/A
08-268-05c	UNK	09/02/22 12:01:50 pm	0.00199	56	28.42			N/A
08-268-06c	UNK	09/02/22 12:04:22 pm	0.00230	62	19.46			N/A
08-268-07c	UNK	09/02/22 12:06:55 pm	0.00066	32	91.03			N/A
08-268-08c	UNK	09/02/22 12:09:28 pm	0.00025	25	275.79			N/A
08-268-09c	UNK	09/02/22 12:12:00 pm	0.00228	62	20.39			N/A
08-268-01c	UNK	09/02/22 12:14:33 pm	0.00758	156	6.29			N/A
CCV	CCV	09/02/22 12:17:08 pm	2.29190	41066	0.05			91.68
CCB	CCB	09/02/22 12:20:03 pm	-0.00011	19	002.39			N/A

Dataset Report

9-5-22
KCOM

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220901B\
 Report Date/Time: Monday, September 05, 2022 08:09:18

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	12:52:06 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.001	
	Sample	12:56:50 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.002	
	Sample	13:01:22 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.003	
	Sample	13:05:55 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\Sample.004	
	Blank	13:10:27 Thu 01-S	Blank	C:\NexIONData_kmckinney\DataSet\X220901B\Blank.005	
	Standard 2	13:14:11 Thu 01-S	Standard #2	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 2.006	
	Standard 3	13:17:54 Thu 01-S	Standard #3	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 3.007	
	Standard 4	13:21:37 Thu 01-S	Standard #4	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 4.008	
	Standard 5	13:25:20 Thu 01-S	Standard #5	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 5.009	
	Standard 6	13:29:02 Thu 01-S	Standard #6	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 6.010	
	Standard 7	13:32:45 Thu 01-S	Standard #7	C:\NexIONData_kmckinney\DataSet\X220901B\Standard 7.011	
	QC Std 1	13:37:17 Thu 01-S	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 1.012	
	QC Std 2	13:41:50 Thu 01-S	QC Std #2	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 2.013	
	QC Std 6	13:45:33 Thu 01-S	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.014	
	QC Std 7	13:50:05 Thu 01-S	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.015	
	QC Std 8	13:54:38 Thu 01-S	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.016	
	MB0829F1 2X	13:58:20 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\MB0829F1 2X.017	
	SB0829F1 2X	14:02:52 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\SB0829F1 2X.018	
	08-298-01c 2X	14:08:04 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01c 2X.019	
	08-298-02c 2X	14:12:35 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-02c 2X.020	
	08-268-02d 2X	14:17:06 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02d 2X.021	
	08-268-03d 2X	14:21:38 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03d 2X.022	
	08-268-04d 2X	14:26:10 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04d 2X.023	
	08-268-05d 2X	14:30:42 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05d 2X.024	
	08-268-06d 2X	14:35:15 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06d 2X.025	
	08-268-07d 2X	14:39:48 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-07d 2X.026	
	QC Std 6	14:44:21 Thu 01-S	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.027	
	QC Std 7	14:48:53 Thu 01-S	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.028	
	QC Std 8	14:53:26 Thu 01-S	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.029	
	08-268-08d 2X	14:58:45 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-08d 2X.030	
	08-268-09d 2X	15:03:17 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-09d 2X.031	
	08-298-01cD 2X	15:07:49 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cD 2X.032	
	08-298-01cL 10X	15:12:21 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cL 10X.033	
	08-298-01cMS 2X	15:16:53 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMS 2X.034	
	08-298-01cMSD 2X	15:21:24 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMSD 2X.035	
	MB0901WM1 2X	15:25:55 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\MB0901WM1 2X.036	
	SB0901WM1 2X	15:30:26 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\SB0901WM1 2X.037	
	08-238-05c 2X	15:34:58 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05c 2X.038	
	08-238-05cD 2X	15:39:31 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cD 2X.039	
	QC Std 6	15:44:04 Thu 01-S	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.040	
	QC Std 7	15:48:36 Thu 01-S	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.041	
	QC Std 8	15:53:08 Thu 01-S	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.042	
	08-238-05cL 10X	15:57:48 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cL 10X.043	
	08-238-05cMS 2X	16:02:20 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMS 2X.044	
	08-238-05cMSD 2X	16:06:53 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMSD 2X.045	
	08-238-05cPS 2X	16:11:25 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cPS 2X.046	
	08-268-01c 2X	16:15:59 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-01c 2X.047	
	08-268-02c 2X	16:20:31 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02c 2X.048	
	08-268-03c 2X	16:25:03 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03c 2X.049	
	08-268-04c 2X	16:29:34 Thu 01-SS	Sample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04c 2X.050	

08-268-05c 2X	16:34:06 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05c 2X.051
08-268-06c 2X	16:38:38 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06c 2X.052
QC Std 6	16:43:09 Thu 01-SQC Std #6	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.053
QC Std 7	16:47:41 Thu 01-SQC Std #7	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.054
QC Std 8	16:52:14 Thu 01-SQC Std #8	C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.055
08-268-07c 2X	16:57:47 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-07c 2X.056
08-268-08c 2X	17:02:20 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-08c 2X.057
08-268-09c 2X	17:06:52 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-09c 2X.058
08-268-01d 2X FFD	17:11:24 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-01d 2X FFD.059
08-268-02d 5X	17:30:26 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02d 5X.060
BL	17:54:41 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.061
BL	17:59:10 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.062
BL	18:03:56 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.063
BL	18:08:25 Thu 01-SSample	C:\NexIONData_kmckinney\DataSet\X220901B\BL.064

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, September 01, 2022 13:10:27

Report Date/Time: Monday, September 05, 2022 08:07:26

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Blank.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	404153.8	1.9				ug/L		Standard
|	Cr	52	9082.2	2.0				ug/L		Standard
|	Cr	53	586.0	6.1				ug/L		Standard
[>	Ge	72	253733.4	2.0				ug/L		Standard
|	As	75	3852.6	3.2				ug/L		Standard
|	As-1	75	-67.4	70.6				ug/L		Standard
|	Se	77	107.0	2.8				ug/L		Standard
|	Se	78	4704.8	3.7				ug/L		Standard
|	Br	79	138.0	6.4				ug/L		Standard
|	Se	82	71.7	19.8				ug/L		Standard
|	Kr	83	62.7	15.5				ug/L		Standard
|	Y	89	532198.7	1.5				ug/L		Standard
|	Rh	103	467131.7	1.6				ug/L		Standard
|	Cd	111	298.2	5.6				ug/L		Standard
|	Cd	114	38.6	37.9				ug/L		Standard
[>	In	115	453861.0	0.9				ug/L		Standard
[>	Tb	159	578004.8	0.5				ug/L		Standard
|	Ho	165	598602.5	0.5				ug/L		Standard
|	Pb	208	606.7	2.4				ug/L		Standard
|	Bi	209	350941.7	1.2				ug/L		Standard
|	Th	232	438613.0	0.5				ug/L		Standard
|	Cr-1	52	181.7	1.4				ug/L		KED
|	Cr-1	53	21.7	9.6				ug/L		KED
[>	Ge-1	72	9326.0	0.2				ug/L		KED
|	As-2	75	2.0	86.6				ug/L		KED
|	Y-1	89	16427.4	0.5				ug/L		KED
|	Rh-1	103	95998.8	0.7				ug/L		KED
|	Cd-1	111	2.0	86.6				ug/L		KED
|	Cd-1	114	4.8	19.7				ug/L		KED
[>	In-1	115	10592.6	1.4				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Blank

Report Date/Time: Monday, September 05, 2022 08:07:26

Cd 114
In 115
Tb 159
Ho 165
Pb 208
Bi 209
Th 232
Cr-1 52
Cr-1 53
Ge-1 72
As-2 75
Y-1 89
Rh-1 103
Cd-1 111
Cd-1 114
In-1 115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, September 01, 2022 13:14:11

Report Date/Time: Monday, September 05, 2022 08:07:28

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 2.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	409246.6	2.0				ug/L	404154	Standard
|	Cr	52	14366.6	3.5	0.5000	0.023	4.6	ug/L	9082	Standard
|	Cr	53	1179.0	3.3	0.5000	0.023	4.6	ug/L	586	Standard
>	Ge	72	256553.5	3.3				ug/L	253733	Standard
|	As	75	4401.1	2.1	0.5000	0.121	24.1	ug/L	3853	Standard
|	As-1	75	586.1	7.5	0.5000	0.024	4.8	ug/L	-67	Standard
|	Se	77	147.7	10.8	0.5000	0.159	31.8	ug/L	107	Standard
|	Se	78	4758.1	1.2				ug/L	4705	Standard
|	Br	79	129.0	8.2				ug/L	138	Standard
|	Se	82	140.3	2.3	0.5000	0.029	5.8	ug/L	72	Standard
|	Kr	83	57.0	10.5				ug/L	63	Standard
|	Y	89	541424.1	2.4				ug/L	532199	Standard
|	Rh	103	471556.7	2.2				ug/L	467132	Standard
|	Cd	111	1966.7	1.0	0.5000	0.008	1.6	ug/L	298	Standard
|	Cd	114	4202.2	0.6	0.5000	0.007	1.3	ug/L	39	Standard
>	In	115	460096.8	0.7				ug/L	453861	Standard
>	Tb	159	589095.3	0.8				ug/L	578005	Standard
|	Ho	165	608987.0	1.1				ug/L	598603	Standard
|	Pb	208	22180.1	1.1	0.5000	0.001	0.3	ug/L	607	Standard
|	Bi	209	356756.5	0.7				ug/L	350942	Standard
|	Th	232	445949.1	1.2				ug/L	438613	Standard
|	Cr-1	52	629.7	1.1	0.5000	0.026	5.2	ug/L	182	KED
|	Cr-1	53	72.3	21.7	0.5000	0.165	33.1	ug/L	22	KED
>	Ge-1	72	9321.7	2.7				ug/L	9326	KED
|	As-2	75	31.0	20.1	0.5000	0.115	23.1	ug/L	2	KED
|	Y-1	89	16560.6	0.9				ug/L	16427	KED
|	Rh-1	103	96958.6	0.5				ug/L	95999	KED
|	Cd-1	111	100.7	7.7	0.5000	0.042	8.3	ug/L	2	KED
|	Cd-1	114	296.4	10.3	0.5000	0.050	10.0	ug/L	5	KED
>	In-1	115	10668.0	0.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, September 01, 2022 13:17:54

Report Date/Time: Monday, September 05, 2022 08:07:30

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 3.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	416594.7	1.9				ug/L	404154	Standard
[	Cr	52	32513.0	2.5	2.0108	0.018	0.9	ug/L	9082	Standard
[	Cr	53	3315.7	5.0	2.0143	0.083	4.1	ug/L	586	Standard
>	Ge	72	262056.8	2.6				ug/L	253733	Standard
[	As	75	6478.2	1.8	2.0202	0.041	2.0	ug/L	3853	Standard
[	As-1	75	2815.0	0.6	2.0088	0.057	2.9	ug/L	-67	Standard
[	Se	77	266.7	1.8	1.9966	0.028	1.4	ug/L	107	Standard
[	Se	78	5272.6	2.0	2.0000	0.167	8.4	ug/L	4705	Standard
[	Br	79	136.3	7.4				ug/L	138	Standard
[	Se	82	412.0	4.6	2.0214	0.173	8.5	ug/L	72	Standard
[	Kr	83	51.3	10.0				ug/L	63	Standard
[	Y	89	561268.8	1.7				ug/L	532199	Standard
[	Rh	103	486594.6	0.7				ug/L	467132	Standard
[	Cd	111	7428.4	0.3	2.0043	0.014	0.7	ug/L	298	Standard
[	Cd	114	17758.9	0.7	2.0038	0.019	1.0	ug/L	39	Standard
>	In	115	473729.2	0.4				ug/L	453861	Standard
>	Tb	159	608623.9	0.4				ug/L	578005	Standard
[	Ho	165	625984.3	0.7				ug/L	598603	Standard
[	Pb	208	93877.6	0.2	2.0052	0.006	0.3	ug/L	607	Standard
[	Bi	209	366034.9	0.9				ug/L	350942	Standard
[	Th	232	456621.3	1.0				ug/L	438613	Standard
[	Cr-1	52	2076.5	1.2	2.0044	0.022	1.1	ug/L	182	KED
[	Cr-1	53	252.7	4.9	2.0124	0.126	6.3	ug/L	22	KED
>	Ge-1	72	9467.5	1.0				ug/L	9326	KED
[	As-2	75	126.7	15.3	2.0063	0.318	15.9	ug/L	2	KED
[	Y-1	89	16562.3	1.1				ug/L	16427	KED
[	Rh-1	103	97727.8	0.4				ug/L	95999	KED
[	Cd-1	111	439.7	0.3	2.0104	0.022	1.1	ug/L	2	KED
[	Cd-1	114	1178.3	3.8	1.9995	0.076	3.8	ug/L	5	KED
>	In-1	115	10786.2	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
[	Cr	52		
[	Cr	53		
>	Ge	72		
[	As	75		
[	As-1	75		
[	Se	77		
[	Se	78		
[	Br	79		
[	Se	82		
[	Kr	83		
[	Y	89		
[	Rh	103		
[Cd	111		

Sample ID: Standard 3

Report Date/Time: Monday, September 05, 2022 08:07:30

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Thursday, September 01, 2022 13:21:37

Report Date/Time: Monday, September 05, 2022 08:07:33

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 4.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	428752.7	2.8				ug/L	404154	Standard
|	Cr	52	71571.9	3.0	5.0318	0.013	0.2	ug/L	9082	Standard
|	Cr	53	7572.7	2.7	5.0028	0.069	1.4	ug/L	586	Standard
>	Ge	72	269211.9	2.0				ug/L	253733	Standard
|	As	75	10967.9	1.4	5.0560	0.101	2.0	ug/L	3853	Standard
|	As-1	75	7674.5	1.3	5.0347	0.088	1.8	ug/L	-67	Standard
|	Se	77	608.0	4.6	5.1404	0.383	7.4	ug/L	107	Standard
|	Se	78	6389.8	1.3	5.1710	0.337	6.5	ug/L	4705	Standard
|	Br	79	167.0	5.5				ug/L	138	Standard
|	Se	82	1020.0	2.2	5.0657	0.190	3.8	ug/L	72	Standard
|	Kr	83	58.0	10.3				ug/L	63	Standard
|	Y	89	576019.3	2.1				ug/L	532199	Standard
|	Rh	103	492733.3	1.5				ug/L	467132	Standard
|	Cd	111	18893.5	0.5	5.0177	0.022	0.4	ug/L	298	Standard
|	Cd	114	46503.4	1.1	5.0208	0.050	1.0	ug/L	39	Standard
>	In	115	483630.6	0.4				ug/L	453861	Standard
>	Tb	159	620012.8	0.6				ug/L	578005	Standard
|	Ho	165	639516.3	-0.6				ug/L	598603	Standard
|	Pb	208	246327.6	0.2	5.0263	0.021	0.4	ug/L	607	Standard
|	Bi	209	373567.3	0.2				ug/L	350942	Standard
|	Th	232	469786.1	0.7				ug/L	438613	Standard
|	Cr-1	52	5066.2	1.3	5.0100	0.085	1.7	ug/L	182	KED
|	Cr-1	53	631.7	6.0	5.0296	0.288	5.7	ug/L	22	KED
>	Ge-1	72	9651.3	0.6				ug/L	9326	KED
|	As-2	75	304.7	6.3	4.9663	0.316	6.4	ug/L	2	KED
|	Y-1	89	17232.7	1.1				ug/L	16427	KED
|	Rh-1	103	100391.2	0.6				ug/L	95999	KED
|	Cd-1	111	1227.7	2.6	5.0716	0.180	3.6	ug/L	2	KED
|	Cd-1	114	3103.1	2.5	5.0270	0.150	3.0	ug/L	5	KED
>	In-1	115	10967.2	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Thursday, September 01, 2022 13:25:20

Report Date/Time: Monday, September 05, 2022 08:07:35

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 5.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	383682.6	1.8				ug/L	404154	Standard
|	Cr	52	209202.8	2.2	19.8670	0.263	1.3	ug/L	9082	Standard
|	Cr	53	23617.2	2.9	19.8939	0.583	2.9	ug/L	586	Standard
>	Ge	72	244787.1	1.7				ug/L	253733	Standard
|	As	75	27231.8	3.2	19.9283	0.370	1.9	ug/L	3853	Standard
|	As-1	75	25466.6	3.1	19.8698	0.284	1.4	ug/L	-67	Standard
|	Se	77	1829.8	1.8	19.9810	0.284	1.4	ug/L	107	Standard
|	Se	78	10088.6	2.5	20.1547	0.663	3.3	ug/L	4705	Standard
|	Br	79	147.7	7.8				ug/L	138	Standard
|	Se	82	3171.4	3.6	19.8744	0.706	3.6	ug/L	72	Standard
|	Kr	83	60.0	13.3				ug/L	63	Standard
|	Y	89	520469.6	2.0				ug/L	532199	Standard
|	Rh	103	450441.4	1.8				ug/L	467132	Standard
|	Cd	111	61497.0	1.3	19.8494	0.224	1.1	ug/L	298	Standard
|	Cd	114	153292.1	0.7	19.8520	0.200	1.0	ug/L	39	Standard
>	In	115	444326.3	1.2				ug/L	453861	Standard
>	Tb	159	573018.9	1.1				ug/L	578005	Standard
|	Ho	165	593255.2	1.2				ug/L	598603	Standard
|	Pb	208	809550.2	0.9	19.8420	0.050	0.3	ug/L	607	Standard
|	Bi	209	343525.4	0.8				ug/L	350942	Standard
|	Th	232	427878.7	1.1				ug/L	438613	Standard
|	Cr-1	52	16415.8	0.4	19.8656	0.515	2.6	ug/L	182	KED
|	Cr-1	53	2018.1	1.4	19.8486	0.479	2.4	ug/L	22	KED
>	Ge-1	72	8853.7	3.0				ug/L	9326	KED
|	As-2	75	1025.0	1.2	19.8753	0.558	2.8	ug/L	2	KED
|	Y-1	89	15338.6	0.9				ug/L	16427	KED
|	Rh-1	103	92696.4	0.6				ug/L	95999	KED
|	Cd-1	111	3930.2	0.9	19.8051	0.084	0.4	ug/L	2	KED
|	Cd-1	114	10451.5	0.7	19.8683	0.208	1.0	ug/L	5	KED
>	In-1	115	10198.6	0.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Monday, September 05, 2022 08:07:35

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Thursday, September 01, 2022 13:29:02

Report Date/Time: Monday, September 05, 2022 08:07:36

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\Standard 6.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	385228.8	1.9				ug/L	404154	Standard
|	Cr	52	411082.5	2.4	39.9356	0.378	0.9	ug/L	9082	Standard
|	Cr	53	46802.6	2.5	39.9418	0.447	1.1	ug/L	586	Standard
>	Ge	72	246148.8	1.5				ug/L	253733	Standard
|	As	75	50264.1	2.3	39.8315	0.377	0.9	ug/L	3853	Standard
|	As-1	75	50584.1	1.7	39.8291	0.222	0.6	ug/L	-67	Standard
|	Se	77	3568.1	4.2	39.9700	1.189	3.0	ug/L	107	Standard
|	Se	78	15722.0	3.7	40.0601	1.272	3.2	ug/L	4705	Standard
|	Br	79	131.0	6.1				ug/L	138	Standard
|	Se	82	6337.7	1.7	39.9860	0.541	1.4	ug/L	72	Standard
|	Kr	83	67.0	15.7				ug/L	63	Standard
|	Y	89	517603.1	1.0				ug/L	532199	Standard
|	Rh	103	449319.7	1.2				ug/L	467132	Standard
|	Cd	111	123790.9	0.9	39.9971	0.801	2.0	ug/L	298	Standard
|	Cd	114	311034.3	0.6	40.0451	0.272	0.7	ug/L	39	Standard
>	In	115	445110.3	1.3				ug/L	453861	Standard
>	Tb	159	578443.7	1.4				ug/L	578005	Standard
|	Ho	165	596453.6	0.7				ug/L	598603	Standard
|	Pb	208	1647494.6	0.4	40.0043	0.505	1.3	ug/L	607	Standard
|	Bi	209	345748.3	0.5				ug/L	350942	Standard
|	Th	232	434192.7	0.6				ug/L	438613	Standard
|	Cr-1	52	32723.4	1.0	39.9108	0.583	1.5	ug/L	182	KED
|	Cr-1	53	3983.9	2.5	39.8177	0.637	1.6	ug/L	22	KED
>	Ge-1	72	8902.1	2.5				ug/L	9326	KED
|	As-2	75	2034.8	4.1	39.8412	1.488	3.7	ug/L	2	KED
|	Y-1	89	15508.1	0.6				ug/L	16427	KED
|	Rh-1	103	91209.9	0.7				ug/L	95999	KED
|	Cd-1	111	8019.3	1.2	40.3049	0.461	1.1	ug/L	2	KED
|	Cd-1	114	21004.0	1.3	40.2046	0.488	1.2	ug/L	5	KED
>	In-1	115	9937.4	0.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 6

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Thursday, September 01, 2022 13:32:45

Report Date/Time: Monday, September 05, 2022 08:07:38

Method File: C:\NexIONData_krnckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_krnckinney\DataSet\X220901B\Standard 7.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	400827.9	1.5				ug/L	404154	Standard
|	Cr	52	1092799.5	2.2	100.5533	1.696	1.7	ug/L	9082	Standard
|	Cr	53	124013.5	2.6	100.4061	1.088	1.1	ug/L	586	Standard
>	Ge	72	255151.3	1.2				ug/L	253733	Standard
|	As	75	130694.4	2.1	100.7702	1.559	1.5	ug/L	3853	Standard
|	As-1	75	137385.8	2.3	100.6966	1.967	2.0	ug/L	-67	Standard
|	Se	77	9448.5	1.6	100.6527	1.503	1.5	ug/L	107	Standard
|	Se	78	35213.0	1.4	100.9041	1.178	1.2	ug/L	4705	Standard
|	Br	79	153.3	8.8				ug/L	138	Standard
|	Se	82	16910.0	2.8	100.5940	3.098	3.1	ug/L	72	Standard
|	Kr	83	60.3	17.6				ug/L	63	Standard
|	Y	89	543159.7	0.5				ug/L	532199	Standard
|	Rh	103	468645.4	1.3				ug/L	467132	Standard
|	Cd	111	329556.8	0.5	100.4628	0.668	0.7	ug/L	298	Standard
|	Cd	114	834104.8	1.0	100.5820	0.754	0.8	ug/L	39	Standard
>	In	115	461627.7	1.1				ug/L	453861	Standard
>	Tb	159	604289.9	0.4				ug/L	578005	Standard
|	Ho	165	624533.7	0.5				ug/L	598603	Standard
|	Pb	208	4309391.2	0.5	100.0295	0.103	0.1	ug/L	607	Standard
|	Bi	209	359404.2	0.2				ug/L	350942	Standard
|	Th	232	452072.3	0.5				ug/L	438613	Standard
|	Cr-1	52	88377.5	0.4	100.7065	0.724	0.7	ug/L	182	KED
|	Cr-1	53	10795.7	0.6	100.7248	0.501	0.5	ug/L	22	KED
>	Ge-1	72	9224.6	0.6				ug/L	9326	KED
|	As-2	75	5479.7	1.4	100.5875	0.928	0.9	ug/L	2	KED
|	Y-1	89	16115.1	1.1				ug/L	16427	KED
|	Rh-1	103	95205.2	1.4				ug/L	95999	KED
|	Cd-1	111	21787.9	0.5	100.6981	1.084	1.1	ug/L	2	KED
|	Cd-1	114	55694.6	0.6	100.2547	1.759	1.8	ug/L	5	KED
>	In-1	115	10437.7	1.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 7

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, September 01, 2022 13:37:17

Report Date/Time: Monday, September 05, 2022 08:07:40

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 1.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	404403.5	2.2				ug/L	404154	Standard
|	Cr	52	564252.0	2.8	51.0475	0.406	0.8	ug/L	9082	Standard
|	Cr	53	64121.3	2.2	51.2308	0.104	0.2	ug/L	586	Standard
>	Ge	72	255123.7	2.3				ug/L	253733	Standard
|	As	75	70155.1	1.7	52.6815	0.723	1.4	ug/L	3853	Standard
|	As-1	75	71629.3	1.5	52.5379	0.609	1.2	ug/L	-67	Standard
|	Se	77	4946.9	2.0	52.1533	0.540	1.0	ug/L	107	Standard
|	Se	78	21016.1	2.1	53.9196	0.691	1.3	ug/L	4705	Standard
|	Br	79	179.3	6.9				ug/L	138	Standard
|	Se	82	8947.5	1.7	53.0301	0.358	0.7	ug/L	72	Standard
|	Kr	83	56.3	4.5				ug/L	63	Standard
|	Y	89	541907.9	2.9				ug/L	532199	Standard
|	Rh	103	475702.3	2.2				ug/L	467132	Standard
|	Cd	111	171887.4	0.4	52.8037	0.323	0.6	ug/L	298	Standard
|	Cd	114	435932.0	1.1	53.0181	0.787	1.5	ug/L	39	Standard
>	In	115	457687.5	0.3				ug/L	453861	Standard
>	Tb	159	606083.6	1.5				ug/L	578005	Standard
|	Ho	165	622039.2	0.3				ug/L	598603	Standard
|	Pb	208	2268776.4	0.3	52.5067	0.668	1.3	ug/L	607	Standard
|	Bi	209	357121.0	0.5				ug/L	350942	Standard
|	Th	232	451336.6	0.5				ug/L	438613	Standard
|	Cr-1	52	44656.7	1.0	50.6866	0.979	1.9	ug/L	182	KED
|	Cr-1	53	5500.4	1.7	51.1128	0.207	0.4	ug/L	22	KED
>	Ge-1	72	9244.0	1.7				ug/L	9326	KED
|	As-2	75	2849.3	0.6	52.1840	0.635	1.2	ug/L	2	KED
|	Y-1	89	16143.8	1.8				ug/L	16427	KED
|	Rh-1	103	94880.0	0.5				ug/L	95999	KED
|	Cd-1	111	11309.1	1.0	51.7093	0.351	0.7	ug/L	2	KED
|	Cd-1	114	29497.5	0.7	52.5289	0.426	0.8	ug/L	5	KED
>	In-1	115	10548.8	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.062
|	Cr	52	102.095	
|	Cr	53	102.462	
>	Ge	72		100.548
|	As	75	105.363	
|	As-1	75	105.076	
|	Se	77	104.307	
	Se	78	107.839	
	Br	79		
	Se	82	106.060	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	105.607	

Sample ID: QC Std 1

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Cd	114	106.036	
In	115		100.843
Tb	159		104.858
Ho	165		
Pb	208	105.013	
Bi	209		
Th	232		
Cr-1	52	101.373	
Cr-1	53	102.226	
Ge-1	72		99.120
As-2	75	104.368	
Y-1	89		
Rh-1	103		
Cd-1	111	103.419	
Cd-1	114	105.058	
In-1	115		99.588

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, September 01, 2022 13:41:50

Report Date/Time: Monday, September 05, 2022 08:07:43

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 2.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	383566.2	1.2				ug/L	404154	Standard
|	Cr	52	8393.1	3.4	-0.0221	0.018	80.8	ug/L	9082	Standard
|	Cr	53	613.0	5.8	0.0481	0.024	50.1	ug/L	586	Standard
>	Ge	72	243941.5	2.7				ug/L	253733	Standard
|	As	75	3783.9	1.3	0.0673	0.047	69.3	ug/L	3853	Standard
|	As-1	75	-33.8	109.5	0.0243	0.027	112.8	ug/L	-67	Standard
|	Se	77	114.0	5.5	0.1260	0.079	62.5	ug/L	107	Standard
|	Se	78	4581.7	2.5	0.2034	0.072	35.6	ug/L	4705	Standard
|	Br	79	113.7	13.7				ug/L	138	Standard
|	Se	82	69.7	7.9	0.0044	0.022	511.0	ug/L	72	Standard
|	Kr	83	55.3	11.8				ug/L	63	Standard
|	Y	89	517729.6	1.7				ug/L	532199	Standard
|	Rh	103	453616.2	1.6				ug/L	467132	Standard
|	Cd	111	332.5	4.0	0.0142	0.005	33.9	ug/L	298	Standard
|	Cd	114	73.3	10.1	0.0046	0.001	20.2	ug/L	39	Standard
>	In	115	438839.9	0.6				ug/L	453861	Standard
>	Tb	159	573804.0	0.5				ug/L	578005	Standard
|	Ho	165	592940.1	0.2				ug/L	598603	Standard
|	Pb	208	889.0	4.2	0.0070	0.001	12.4	ug/L	607	Standard
|	Bi	209	343022.1	0.5				ug/L	350942	Standard
|	Th	232	422393.3	0.4				ug/L	438613	Standard
|	Cr-1	52	179.0	6.6	0.0106	0.011	103.1	ug/L	182	KED
|	Cr-1	53	26.0	23.1	0.0559	0.056	99.4	ug/L	22	KED
>	Ge-1	72	8733.3	1.7				ug/L	9326	KED
|	As-2	75	2.0	50.0	0.0023	0.019	825.2	ug/L	2	KED
|	Y-1	89	15288.8	1.0				ug/L	16427	KED
|	Rh-1	103	90426.6	1.0				ug/L	95999	KED
|	Cd-1	111	5.0	52.9	0.0149	0.013	84.9	ug/L	2	KED
|	Cd-1	114	5.1	12.4	0.0011	0.001	104.9	ug/L	5	KED
>	In-1	115	10057.0	0.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.906
|	Cr	52		
|	Cr	53		
>	Ge	72		96.141
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 2

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Cd	114	
In	115	96.690
Tb	159	99.239
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.645
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	94.944

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 13:45:33

Report Date/Time: Monday, September 05, 2022 08:07:45

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	383309.2	1.6				ug/L	404154	Standard
|	Cr	52	409080.2	1.4	38.8561	0.541	1.4	ug/L	9082	Standard
|	Cr	53	46253.1	2.3	38.8744	0.529	1.4	ug/L	586	Standard
>	Ge	72	243005.8	2.4				ug/L	253733	Standard
|	As	75	50897.5	1.5	39.3926	0.386	1.0	ug/L	3853	Standard
|	As-1	75	51258.7	1.4	39.4844	0.411	1.0	ug/L	-67	Standard
|	Se	77	3562.8	1.5	39.1599	0.907	2.3	ug/L	107	Standard
|	Se	78	15737.0	3.1	39.0299	0.479	1.2	ug/L	4705	Standard
|	Br	79	154.3	7.7				ug/L	138	Standard
|	Se	82	6362.4	2.6	39.4755	0.281	0.7	ug/L	72	Standard
|	Kr	83	52.0	11.7				ug/L	63	Standard
|	Y	89	511053.9	2.5				ug/L	532199	Standard
|	Rh	103	447397.5	2.0				ug/L	467132	Standard
|	Cd	111	121187.8	1.2	38.8468	0.248	0.6	ug/L	298	Standard
|	Cd	114	306190.3	0.9	38.8799	0.133	0.3	ug/L	39	Standard
>	In	115	438336.4	0.7				ug/L	453861	Standard
>	Tb	159	569774.5	0.8				ug/L	578005	Standard
|	Ho	165	592285.7	0.6				ug/L	598603	Standard
|	Pb	208	1623311.2	0.8	39.9542	0.021	0.1	ug/L	607	Standard
|	Bi	209	343489.1	0.1				ug/L	350942	Standard
|	Th	232	427672.9	0.3				ug/L	438613	Standard
|	Cr-1	52	32450.1	0.4	39.1492	0.747	1.9	ug/L	182	KED
|	Cr-1	53	3879.2	2.4	38.3066	0.185	0.5	ug/L	22	KED
>	Ge-1	72	8687.0	2.0				ug/L	9326	KED
|	As-2	75	1995.1	4.0	38.8814	1.827	4.7	ug/L	2	KED
|	Y-1	89	15344.6	0.3				ug/L	16427	KED
|	Rh-1	103	90182.1	0.5				ug/L	95999	KED
|	Cd-1	111	7991.9	1.1	38.9141	0.335	0.9	ug/L	2	KED
|	Cd-1	114	20608.1	1.7	39.0816	0.705	1.8	ug/L	5	KED
>	In-1	115	9904.5	0.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.842
|	Cr	52	97.140	
|	Cr	53	97.186	
>	Ge	72		95.772
|	As	75	98.482	
|	As-1	75	98.711	
	Se	77	97.900	
	Se	78	97.575	
	Br	79		
	Se	82	98.689	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	97.117	

Sample ID: QC Std 6

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	Cd	114	97.200	
	In	115		96.579
	Tb	159		98.576
	Ho	165		
	Pb	208	99.885	
	Bi	209		
	Th	232		
	Cr-1	52	97.873	
	Cr-1	53	95.767	
	Ge-1	72		93.147
	As-2	75	97.203	
	Y-1	89		
	Rh-1	103		
	Cd-1	111	97.285	
	Cd-1	114	97.704	
	In-1	115		93.505

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 13:50:05

Report Date/Time: Monday, September 05, 2022 08:07:48

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.015

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc 45	376920.5	2.4				ug/L	404154	Standard
|	Cr 52	202322.6	2.6	19.1256	0.113	0.6	ug/L	9082	Standard
|	Cr 53	22907.0	2.7	19.3442	0.130	0.7	ug/L	586	Standard
>	Ge 72	240514.1	2.8				ug/L	253733	Standard
|	As 75	26670.6	2.8	19.4042	0.022	0.1	ug/L	3853	Standard
|	As-1 75	24773.3	3.2	19.3011	0.089	0.5	ug/L	-67	Standard
|	Se 77	1791.1	5.0	19.3064	0.479	2.5	ug/L	107	Standard
|	Se 78	10025.2	2.2	19.5488	0.332	1.7	ug/L	4705	Standard
|	Br 79	134.0	12.5				ug/L	138	Standard
|	Se 82	3086.3	3.7	19.1252	0.215	1.1	ug/L	72	Standard
|	Kr 83	58.3	2.0				ug/L	63	Standard
|	Y 89	501433.2	2.2				ug/L	532199	Standard
|	Rh 103	440308.3	2.2				ug/L	467132	Standard
|	Cd 111	59982.5	1.1	19.4986	0.215	1.1	ug/L	298	Standard
|	Cd 114	149570.2	0.8	19.3037	0.229	1.2	ug/L	39	Standard
>	In 115	431243.5	1.0				ug/L	453861	Standard
>	Tb 159	564912.0	0.5				ug/L	578005	Standard
|	Ho 165	583341.9	0.8				ug/L	598603	Standard
|	Pb 208	792637.6	0.6	19.6699	0.171	0.9	ug/L	607	Standard
|	Bi 209	337250.4	1.2				ug/L	350942	Standard
|	Th 232	417660.8	0.4				ug/L	438613	Standard
|	Cr-1 52	15746.0	0.7	19.1509	0.371	1.9	ug/L	182	KED
|	Cr-1 53	1937.8	1.3	19.3040	0.494	2.6	ug/L	22	KED
>	Ge-1 72	8569.9	1.6				ug/L	9326	KED
|	As-2 75	962.7	4.1	18.9921	0.671	3.5	ug/L	2	KED
|	Y-1 89	14992.2	1.3				ug/L	16427	KED
|	Rh-1 103	88674.4	0.9				ug/L	95999	KED
|	Cd-1 111	3944.5	0.9	19.3127	0.152	0.8	ug/L	2	KED
|	Cd-1 114	10069.0	0.2	19.2004	0.136	0.7	ug/L	5	KED
>	In-1 115	9848.2	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
>	Sc 45		93.262
|	Cr 52	95.628	
|	Cr 53	96.721	
>	Ge 72		94.790
|	As 75	97.021	
|	As-1 75	96.505	
	Se 77	96.532	
	Se 78	97.744	
	Br 79		
	Se 82	95.626	
	Kr 83		
	Y 89		
	Rh 103		
	Cd 111	97.493	

Sample ID: QC Std 7

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Cd	114	96.519	
In	115		95.017
Tb	159		97.735
Ho	165		
Pb	208	98.349	
Bi	209		
Th	232		
Cr-1	52	95.755	
Cr-1	53	96.520	
Ge-1	72		91.892
As-2	75	94.960	
Y-1	89		
Rh-1	103		
Cd-1	111	96.564	
Cd-1	114	96.002	
In-1	115		92.972

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 13:54:38

Report Date/Time: Monday, September 05, 2022 08:07:50

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	378111.0	1.2				ug/L	404154	Standard
|	Cr	52	8293.4	2.9	-0.0200	0.021	102.9	ug/L	9082	Standard
|	Cr	53	572.7	3.6	0.0210	0.012	55.7	ug/L	586	Standard
>	Ge	72	242813.7	2.5				ug/L	253733	Standard
|	As	75	3673.5	1.3	-0.0105	0.035	328.3	ug/L	3853	Standard
|	As-1	75	-93.6	31.2	-0.0222	0.021	94.7	ug/L	-67	Standard
|	Se	77	91.3	18.6	-0.1258	0.188	149.7	ug/L	107	Standard
|	Se	78	4514.0	1.9	0.0426	0.126	296.6	ug/L	4705	Standard
|	Br	79	132.3	10.7				ug/L	138	Standard
|	Se	82	66.0	1.5	-0.0160	0.016	99.1	ug/L	72	Standard
|	Kr	83	56.0	15.3				ug/L	63	Standard
|	Y	89	509743.4	1.8				ug/L	532199	Standard
|	Rh	103	440934.0	1.2				ug/L	467132	Standard
|	Cd	111	313.0	5.8	0.0083	0.005	65.1	ug/L	298	Standard
|	Cd	114	44.1	42.2	0.0009	0.002	268.2	ug/L	39	Standard
>	In	115	437146.2	0.6				ug/L	453861	Standard
>	Tb	159	571448.7	0.3				ug/L	578005	Standard
|	Ho	165	589663.6	0.3				ug/L	598603	Standard
|	Pb	208	703.0	7.3	0.0025	0.001	47.8	ug/L	607	Standard
|	Bi	209	340818.0	0.5				ug/L	350942	Standard
|	Th	232	423945.6	0.3				ug/L	438613	Standard
|	Cr-1	52	166.0	7.8	-0.0075	0.017	220.4	ug/L	182	KED
|	Cr-1	53	21.0	8.2	0.0044	0.018	415.1	ug/L	22	KED
>	Ge-1	72	8849.1	1.1				ug/L	9326	KED
|	As-2	75	2.0	0.0	0.0020	0.000	21.7	ug/L	2	KED
|	Y-1	89	15438.0	0.7				ug/L	16427	KED
|	Rh-1	103	91007.6	0.5				ug/L	95999	KED
|	Cd-1	111	1.7	34.6	-0.0012	0.003	227.7	ug/L	2	KED
|	Cd-1	114	6.8	41.4	0.0040	0.005	128.7	ug/L	5	KED
>	In-1	115	10162.6	0.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		93.556
|	Cr	52		
|	Cr	53		
>	Ge	72		95.696
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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]	Cd	114	
[>	In	115	96.317
]>	Tb	159	98.866
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
]>	Ge-1	72	94.886
[	As-2	75	
	Y-1	89	
	Rh-1	103	
	Cd-1	111	
	Cd-1	114	
]>	In-1	115	95.941

Quantitative Analysis - Summary Report

Sample ID: MB0829F1 2X

Sample Date/Time: Thursday, September 01, 2022 13:58:20

Report Date/Time: Monday, September 05, 2022 08:07:53

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\MB0829F1 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	396346.2	1.6				ug/L	404154	Standard
|	Cr	52	7612.7	6.2	-0.1216	0.037	30.7	ug/L	9082	Standard
|	Cr	53	479.0	6.8	-0.0789	0.021	27.0	ug/L	586	Standard
[>	Ge	72	250047.1	1.8				ug/L	253733	Standard
|	As	75	3672.1	2.5	-0.1012	0.025	24.8	ug/L	3853	Standard
|	As-1	75	-101.1	14.4	-0.0260	0.011	44.1	ug/L	-67	Standard
|	Se	77	98.0	10.0	-0.0823	0.099	120.4	ug/L	107	Standard
|	Se	78	4505.0	2.3	-0.4446	0.092	20.7	ug/L	4705	Standard
|	Br	79	131.0	8.0				ug/L	138	Standard
|	Se	82	59.7	14.1	-0.0669	0.050	75.0	ug/L	72	Standard
|	Kr	83	48.3	13.3				ug/L	63	Standard
|	Y	89	532333.2	1.3				ug/L	532199	Standard
|	Rh	103	459717.8	1.7				ug/L	467132	Standard
|	Cd	111	465.0	3.9	0.0526	0.005	9.6	ug/L	298	Standard
|	Cd	114	392.9	2.2	0.0438	0.001	2.4	ug/L	39	Standard
[>	In	115	451081.9	0.5				ug/L	453861	Standard
[>	Tb	159	588317.8	0.4				ug/L	578005	Standard
|	Ho	165	607561.9	1.1				ug/L	598603	Standard
|	Pb	208	490.3	3.7	-0.0030	0.000	15.2	ug/L	607	Standard
|	Bi	209	349181.0	0.4				ug/L	350942	Standard
|	Th	232	439738.6	0.7				ug/L	438613	Standard
|	Cr-1	52	99.0	8.6	-0.0915	0.008	9.3	ug/L	182	KED
|	Cr-1	53	10.3	11.2	-0.1032	0.010	9.8	ug/L	22	KED
[>	Ge-1	72	9171.6	1.6				ug/L	9326	KED
|	As-2	75	2.7	57.3	0.0129	0.028	220.0	ug/L	2	KED
|	Y-1	89	16064.7	1.7				ug/L	16427	KED
|	Rh-1	103	93153.7	0.6				ug/L	95999	KED
|	Cd-1	111	12.0	41.7	0.0465	0.023	48.6	ug/L	2	KED
|	Cd-1	114	29.0	9.8	0.0439	0.005	11.0	ug/L	5	KED
[>	In-1	115	10382.1	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		98.068
|	Cr	52		
|	Cr	53		
[>	Ge	72		98.547
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0829F1 2X

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Cd	114	
In	115	99.388
Tb	159	101.784
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.344
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.014

Quantitative Analysis - Summary Report

Sample ID: SB0829F1 2X

Sample Date/Time: Thursday, September 01, 2022 14:02:52

Report Date/Time: Monday, September 05, 2022 08:07:55

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\SB0829F1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	404260.2	1.4				ug/L	404154	Standard
|	Cr	52	439987.0	2.1	39.6366	0.272	0.7	ug/L	9082	Standard
|	Cr	53	50209.1	3.0	40.0210	0.660	1.6	ug/L	586	Standard
>	Ge	72	255425.1	2.4				ug/L	253733	Standard
|	As	75	53632.9	2.8	39.4905	0.183	0.5	ug/L	3853	Standard
|	As-1	75	53916.8	2.6	39.5050	0.109	0.3	ug/L	-67	Standard
|	Se	77	3804.2	2.4	39.7874	0.252	0.6	ug/L	107	Standard
|	Se	78	16523.9	2.8	38.9748	0.230	0.6	ug/L	4705	Standard
|	Br	79	144.0	13.9				ug/L	138	Standard
|	Se	82	6637.2	2.5	39.1783	0.626	1.6	ug/L	72	Standard
|	Kr	83	56.0	10.9				ug/L	63	Standard
|	Y	89	542126.5	2.0				ug/L	532199	Standard
|	Rh	103	466911.9	2.0				ug/L	467132	Standard
|	Cd	111	128486.1	1.2	39.5890	0.263	0.7	ug/L	298	Standard
|	Cd	114	322653.7	0.8	39.3807	0.292	0.7	ug/L	39	Standard
>	In	115	456039.8	0.5				ug/L	453861	Standard
>	Tb	159	594206.9	1.2				ug/L	578005	Standard
|	Ho	165	616520.9	0.4				ug/L	598603	Standard
|	Pb	208	1716535.7	0.8	40.5129	0.163	0.4	ug/L	607	Standard
|	Bi	209	351689.6	1.0				ug/L	350942	Standard
|	Th	232	444451.6	0.3				ug/L	438613	Standard
|	Cr-1	52	34379.3	0.5	39.3497	0.267	0.7	ug/L	182	KED
|	Cr-1	53	4248.0	1.2	39.8152	0.395	1.0	ug/L	22	KED
>	Ge-1	72	9154.6	0.2				ug/L	9326	KED
|	As-2	75	2132.5	4.7	39.4221	1.798	4.6	ug/L	2	KED
|	Y-1	89	16272.6	1.2				ug/L	16427	KED
|	Rh-1	103	94058.6	0.6				ug/L	95999	KED
|	Cd-1	111	8631.6	0.3	39.3010	0.381	1.0	ug/L	2	KED
|	Cd-1	114	22010.9	1.7	39.0274	0.363	0.9	ug/L	5	KED
>	In-1	115	10592.8	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.026
|	Cr	52		
|	Cr	53		
>	Ge	72		100.667
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0829F1 2X

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Cd	114	
In	115	100.480
Tb	159	102.803
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.162
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	100.002

Quantitative Analysis - Summary Report

Sample ID: 08-298-01c 2X

Sample Date/Time: Thursday, September 01, 2022 14:08:04

Report Date/Time: Monday, September 05, 2022 08:07:57

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01c 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	467558.8	2.3				ug/L	404154	Standard
|	Cr	52	14359.9	3.7	0.3062	0.017	5.7	ug/L	9082	Standard
|	Cr	53	2518.2	2.4	1.2835	0.018	1.4	ug/L	586	Standard
[>	Ge	72	255192.5	2.6				ug/L	253733	Standard
|	As	75	3967.8	4.8	0.0728	0.071	97.8	ug/L	3853	Standard
|	As-1	75	261.2	28.6	0.2402	0.050	20.8	ug/L	-67	Standard
|	Se	77	187.0	5.4	0.8565	0.132	15.4	ug/L	107	Standard
|	Se	78	4537.4	3.3	-0.6455	0.116	17.9	ug/L	4705	Standard
|	Br	79	5540.7	2.7				ug/L	138	Standard
|	Se	82	102.7	12.4	0.1829	0.077	42.2	ug/L	72	Standard
|	Kr	83	67.3	7.3				ug/L	63	Standard
|	Y	89	539078.8	2.4				ug/L	532199	Standard
|	Rh	103	449079.9	0.8				ug/L	467132	Standard
|	Cd	111	327.3	3.4	0.0107	0.003	32.3	ug/L	298	Standard
|	Cd	114	121.4	10.2	0.0104	0.001	14.1	ug/L	39	Standard
[>	In	115	446382.2	0.5				ug/L	453861	Standard
[>	Tb	159	591113.8	0.5				ug/L	578005	Standard
|	Ho	165	613754.0	0.1				ug/L	598603	Standard
|	Pb	208	906.0	3.1	0.0068	0.001	8.2	ug/L	607	Standard
|	Bi	209	340031.6	0.6				ug/L	350942	Standard
|	Th	232	440276.6	0.3				ug/L	438613	Standard
|	Cr-1	52	238.3	5.0	0.0706	0.015	20.7	ug/L	182	KED
|	Cr-1	53	29.7	30.6	0.0805	0.085	105.2	ug/L	22	KED
[>	Ge-1	72	9102.6	0.4				ug/L	9326	KED
|	As-2	75	15.0	20.0	0.2427	0.055	22.5	ug/L	2	KED
|	Y-1	89	15971.3	1.3				ug/L	16427	KED
|	Rh-1	103	91454.2	1.2				ug/L	95999	KED
|	Cd-1	111	5.0	0.0	0.0142	0.000	1.8	ug/L	2	KED
|	Cd-1	114	8.5	12.0	0.0069	0.002	24.9	ug/L	5	KED
[>	In-1	115	10365.7	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		115.688
|	Cr	52		
|	Cr	53		
[>	Ge	72		100.575
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-298-01c 2X

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	Cd	114	
∨	In	115	98.352
∨	Tb	159	102.268
	Hb	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
∨	Ge-1	72	97.604
	As-2	75	
	Y-1	89	
	Rh-1	103	
	Cd-1	111	
	Cd-1	114	
∨	In-1	115	97.859

Quantitative Analysis - Summary Report

Sample ID: 08-298-02c 2X

Sample Date/Time: Thursday, September 01, 2022 14:12:35

Report Date/Time: Monday, September 05, 2022 08:07:59

Method File: C:\Nex\ONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\Nex\ONData_kmckinney\DataSet\X220901B\08-298-02c 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	476271.3	1.3				ug/L	404154	Standard
|	Cr	52	19792.0	2.2	0.7096	0.014	2.0	ug/L	9082	Standard
|	Cr	53	2598.2	2.3	1.3060	0.025	1.9	ug/L	586	Standard
[>	Ge	72	260853.9	2.8				ug/L	253733	Standard
|	As	75	4110.7	2.4	0.1168	0.012	10.2	ug/L	3853	Standard
|	As-1	75	289.1	24.6	0.2569	0.052	20.4	ug/L	-67	Standard
|	Se	77	146.3	4.6	0.3824	0.028	7.3	ug/L	107	Standard
|	Se	78	4664.1	2.4	-0.5573	0.211	37.9	ug/L	4705	Standard
|	Br	79	6504.5	3.1				ug/L	138	Standard
|	Se	82	100.3	12.7	0.1569	0.086	54.6	ug/L	72	Standard
|	Kr	83	58.3	4.3				ug/L	63	Standard
|	Y	89	544830.1	1.5				ug/L	532199	Standard
|	Rh	103	459255.7	1.7				ug/L	467132	Standard
|	Cd	111	293.9	6.6	-0.0018	0.006	333.5	ug/L	298	Standard
|	Cd	114	70.3	17.9	0.0039	0.002	40.3	ug/L	39	Standard
[>	In	115	456033.2	0.2				ug/L	453861	Standard
[>	Tb	159	610402.0	1.2				ug/L	578005	Standard
|	Ho	165	623991.0	0.5				ug/L	598603	Standard
|	Pb	208	756.7	2.8	0.0027	0.000	12.6	ug/L	607	Standard
|	Bi	209	348434.1	0.4				ug/L	350942	Standard
|	Th	232	447853.2	0.6				ug/L	438613	Standard
|	Cr-1	52	721.4	2.3	0.6269	0.017	2.7	ug/L	182	KED
|	Cr-1	53	81.3	16.0	0.5678	0.123	21.7	ug/L	22	KED
[>	Ge-1	72	9130.6	0.8				ug/L	9326	KED
|	As-2	75	15.3	15.1	0.2482	0.043	17.5	ug/L	2	KED
|	Y-1	89	16097.1	1.5				ug/L	16427	KED
|	Rh-1	103	93080.6	0.5				ug/L	95999	KED
|	Cd-1	111	2.7	57.3	0.0031	0.007	228.3	ug/L	2	KED
|	Cd-1	114	7.8	35.0	0.0053	0.005	88.0	ug/L	5	KED
[>	In-1	115	10579.0	1.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		117.844
|	Cr	52		
|	Cr	53		
[>	Ge	72		102.806
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-298-02c 2X

Report Date/Time: Monday, September 05, 2022 08:07:59

—	Cd	114	
↳	In	115	100.479
↳	Tb	159	105.605
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	97.904
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	99.872

Quantitative Analysis - Summary Report

Sample ID: 08-268-02d 2X

Sample Date/Time: Thursday, September 01, 2022 14:17:06

Report Date/Time: Monday, September 05, 2022 08:08:01

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-02d 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	470465.7	2.6				ug/L	404154	Standard
|	Cr	52	62058.2	2.2	4.0701	0.033	0.8	ug/L	9082	Standard
|	Cr	53	6088.6	7.5	3.7438	0.204	5.4	ug/L	586	Standard
>	Ge	72	238498.2	2.6				ug/L	253733	Standard
|	As	75	9084.5	3.8	4.6429	0.124	2.7	ug/L	3853	Standard
|	As-1	75	5977.4	4.9	4.7326	0.115	2.4	ug/L	-67	Standard
|	Se	77	603.0	5.3	5.7885	0.192	3.3	ug/L	107	Standard
|	Se	78	5026.2	2.8	2.1383	0.165	7.7	ug/L	4705	Standard
|	Br	79	137085.2	2.5				ug/L	138	Standard
|	Se	82	567.7	6.4	3.1951	0.140	4.4	ug/L	72	Standard
|	Kr	83	72.7	21.8				ug/L	63	Standard
|	Y	89	504531.3	1.5				ug/L	532199	Standard
|	Rh	103	412781.6	1.5				ug/L	467132	Standard
|	Cd	111	318.9	4.5	0.0161	0.004	26.2	ug/L	298	Standard
|	Cd	114	10.0	96.1	-0.0034	0.001	38.2	ug/L	39	Standard
>	In	115	413471.4	1.5				ug/L	453861	Standard
>	Tb	159	564009.4	1.1				ug/L	578005	Standard
|	Ho	165	574306.0	1.1				ug/L	598603	Standard
|	Pb	208	1536.7	8.0	0.0235	0.003	12.6	ug/L	607	Standard
|	Bi	209	302675.7	1.0				ug/L	350942	Standard
|	Th	232	414426.5	0.8				ug/L	438613	Standard
|	Cr-1	52	801.7	4.8	0.7616	0.058	7.7	ug/L	182	KED
|	Cr-1	53	117.3	6.0	0.9571	0.053	5.6	ug/L	22	KED
>	Ge-1	72	8739.0	1.9				ug/L	9326	KED
|	As-2	75	208.0	2.9	3.9976	0.181	4.5	ug/L	2	KED
|	Y-1	89	15768.4	0.1				ug/L	16427	KED
|	Rh-1	103	84912.3	1.8				ug/L	95999	KED
|	Cd-1	111	1.0	100.0	-0.0042	0.005	119.0	ug/L	2	KED
|	Cd-1	114	3.1	62.5	-0.0027	0.004	136.0	ug/L	5	KED
>	In-1	115	9827.5	1.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		116.408
|	Cr	52		
|	Cr	53		
>	Ge	72		93.996
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-02d 2X

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—	Cd	114	
↳	In	115	91.101
↳	Tb	159	97.579
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
↳	Ge-1	72	93.705
—	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
↳	In-1	115	92.777

Quantitative Analysis - Summary Report

Sample ID: 08-268-03d 2X

Sample Date/Time: Thursday, September 01, 2022 14:21:38

Report Date/Time: Monday, September 05, 2022 08:08:03

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03d 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	450126.9	2.6				ug/L	404154	Standard
|	Cr	52	34334.9	2.7	2.0009	0.016	0.8	ug/L	9082	Standard
|	Cr	53	3076.7	4.1	1.7555	0.038	2.2	ug/L	586	Standard
>	Ge	72	246236.0	2.2				ug/L	253733	Standard
|	As	75	7757.4	2.2	3.3092	0.069	2.1	ug/L	3853	Standard
|	As-1	75	3992.2	2.2	3.0804	0.042	1.4	ug/L	-67	Standard
|	Se	77	180.3	8.2	0.8524	0.124	14.5	ug/L	107	Standard
|	Se	78	4732.8	2.1	0.5736	0.123	21.4	ug/L	4705	Standard
|	Br	79	16496.5	3.8				ug/L	138	Standard
|	Se	82	153.0		0.5169	0.021	4.2	ug/L	72	Standard
|	Kr	83	59.7	14.4				ug/L	63	Standard
|	Y	89	525552.1	1.9				ug/L	532199	Standard
|	Rh	103	434725.7	1.5				ug/L	467132	Standard
|	Cd	111	311.4	5.4	0.0095	0.007	69.3	ug/L	298	Standard
|	Cd	114	51.5	41.6	0.0019	0.003	143.1	ug/L	39	Standard
>	In	115	430050.9	1.1				ug/L	453861	Standard
>	Tb	159	574389.4	0.9				ug/L	578005	Standard
|	Ho	165	593469.3	1.3				ug/L	598603	Standard
|	Pb	208	5504.4	1.9	0.1197	0.004	3.0	ug/L	607	Standard
|	Bi	209	320700.4	0.4				ug/L	350942	Standard
|	Th	232	423107.1	0.6				ug/L	438613	Standard
|	Cr-1	52	653.3	6.8	0.5696	0.058	10.2	ug/L	182	KED
|	Cr-1	53	72.7	4.2	0.5051	0.035	6.9	ug/L	22	KED
>	Ge-1	72	8885.4	1.5				ug/L	9326	KED
|	As-2	75	167.0	7.3	3.1457	0.183	5.8	ug/L	2	KED
|	Y-1	89	16035.3	1.4				ug/L	16427	KED
|	Rh-1	103	89235.5	0.3				ug/L	95999	KED
|	Cd-1	111	4.3	13.3	0.0113	0.003	25.2	ug/L	2	KED
|	Cd-1	114	1.5	96.3	-0.0057	0.003	48.1	ug/L	5	KED
>	In-1	115	10267.1	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.375
|	Cr	52		
|	Cr	53		
>	Ge	72		97.045
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-03d 2X

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	Cd	114	
>	In	115	94.754
>	Tb	159	99.375
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	95.275
	As-2	75	
	Y-1	89	
	Rh-1	103	
	Cd-1	111	
	Cd-1	114	
>	In-1	115	96.927

Quantitative Analysis - Summary Report

Sample ID: 08-268-04d 2X

Sample Date/Time: Thursday, September 01, 2022 14:26:10

Report Date/Time: Monday, September 05, 2022 08:08:05

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04d 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	434806.4	3.3				ug/L	404154	Standard
|	Cr	52	33975.7	1.6	2.0716	0.071	3.4	ug/L	9082	Standard
|	Cr	53	6271.7	1.2	4.2339	0.153	3.6	ug/L	586	Standard
[>	Ge	72	243974.6	2.1				ug/L	253733	Standard
|	As	75	4870.2	3.2	0.9684	0.065	6.7	ug/L	3853	Standard
|	As-1	75	1450.8	4.3	1.1608	0.025	2.2	ug/L	-67	Standard
|	Se	77	312.7	6.6	2.3635	0.204	8.6	ug/L	107	Standard
|	Se	78	4660.4	2.0	0.4734	0.128	26.9	ug/L	4705	Standard
|	Br	79	53046.3	2.2				ug/L	138	Standard
|	Se	82	281.7	5.1	1.3297	0.096	7.2	ug/L	72	Standard
|	Kr	83	55.7	14.4				ug/L	63	Standard
|	Y	89	519308.9	2.8				ug/L	532199	Standard
|	Rh	103	426295.2	1.5				ug/L	467132	Standard
|	Cd	111	303.9	1.8	0.0079	0.002	26.6	ug/L	298	Standard
|	Cd	114	64.0	17.1	0.0036	0.001	39.6	ug/L	39	Standard
[>	In	115	425980.5	0.6				ug/L	453861	Standard
[>	Tb	159	566834.2	0.3				ug/L	578005	Standard
|	Ho	165	583912.2	0.4				ug/L	598603	Standard
|	Pb	208	1760.0	2.8	0.0288	0.001	4.5	ug/L	607	Standard
|	Bi	209	317438.5	0.4				ug/L	350942	Standard
|	Th	232	424849.1	1.2				ug/L	438613	Standard
|	Cr-1	52	745.7	2.5	0.6983	0.041	5.9	ug/L	182	KED
|	Cr-1	53	97.0	7.2	0.7621	0.082	10.8	ug/L	22	KED
[>	Ge-1	72	8698.6	2.3				ug/L	9326	KED
|	As-2	75	41.7	5.0	0.7759	0.059	7.6	ug/L	2	KED
|	Y-1	89	15887.2	0.4				ug/L	16427	KED
|	Rh-1	103	88548.3	0.5				ug/L	95999	KED
|	Cd-1	111	2.7	43.3	0.0039	0.006	142.9	ug/L	2	KED
|	Cd-1	114	7.4	49.9	0.0055	0.007	127.2	ug/L	5	KED
[>	In-1	115	9894.3	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.584
|	Cr	52		
|	Cr	53		
[>	Ge	72		96.154
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-04d 2X

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Cd	114	
In	115	93.857
Tb	159	98.067
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.273
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	93.408

Quantitative Analysis - Summary Report

Sample ID: 08-268-05d 2X

Sample Date/Time: Thursday, September 01, 2022 14:30:42

Report Date/Time: Monday, September 05, 2022 08:08:07

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05d 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	468319.8	2.0				ug/L	404154	Standard
|	Cr	52	42788.0	2.9	2.5622	0.084	3.3	ug/L	9082	Standard
|	Cr	53	5044.9	1.1	3.0403	0.037	1.2	ug/L	586	Standard
>	Ge	72	249185.0	2.0				ug/L	253733	Standard
|	As	75	4992.7	3.4	0.9838	0.111	11.2	ug/L	3853	Standard
|	As-1	75	1325.5	7.5	1.0436	0.065	6.2	ug/L	-67	Standard
|	Se	77	205.3	11.9	1.1031	0.226	20.4	ug/L	107	Standard
|	Se	78	4615.4	2.2	-0.0164	0.233	1425.3	ug/L	4705	Standard
|	Br	79	20513.7	2.7				ug/L	138	Standard
|	Se	82	151.3	8.7	0.4943	0.063	12.7	ug/L	72	Standard
|	Kr	83	55.7	14.5				ug/L	63	Standard
|	Y	89	531920.0	2.9				ug/L	532199	Standard
|	Rh	103	438360.8	2.3				ug/L	467132	Standard
|	Cd	111	329.3	6.5	0.0127	0.006	50.4	ug/L	298	Standard
|	Cd	114	41.1	22.5	0.0005	0.001	244.9	ug/L	39	Standard
>	In	115	440565.0	1.0				ug/L	453861	Standard
>	Tb	159	581963.0	1.9				ug/L	578005	Standard
|	Ho	165	596842.0	1.0				ug/L	598603	Standard
|	Pb	208	1285.4	0.8	0.0163	0.001	4.4	ug/L	607	Standard
|	Bi	209	326577.1	0.6				ug/L	350942	Standard
|	Th	232	432654.1	0.7				ug/L	438613	Standard
|	Cr-1	52	1364.1	5.0	1.3864	0.093	6.7	ug/L	182	KED
|	Cr-1	53	163.7	4.5	1.3632	0.088	6.5	ug/L	22	KED
>	Ge-1	72	9030.5	1.1				ug/L	9326	KED
|	As-2	75	47.0	20.5	0.8461	0.185	21.9	ug/L	2	KED
|	Y-1	89	16406.8	1.7				ug/L	16427	KED
|	Rh-1	103	90907.7	1.4				ug/L	95999	KED
|	Cd-1	111	3.3	45.8	0.0064	0.007	112.9	ug/L	2	KED
|	Cd-1	114	4.9	38.5	0.0004	0.003	835.1	ug/L	5	KED
>	In-1	115	10412.6	0.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		115.877
|	Cr	52		
|	Cr	53		
>	Ge	72		98.207
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-05d 2X

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Quantitative Analysis - Summary Report

Sample ID: 08-268-06d 2X

Sample Date/Time: Thursday, September 01, 2022 14:35:15

Report Date/Time: Monday, September 05, 2022 08:08:09

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06d 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	461001.7	2.0				ug/L	404154	Standard
|	Cr	52	30113.7	3.2	1.5931	0.030	1.9	ug/L	9082	Standard
|	Cr	53	2976.6	3.7	1.6323	0.038	2.3	ug/L	586	Standard
>	Ge	72	249430.0	1.5				ug/L	253733	Standard
|	As	75	6523.6	2.8	2.2237	0.081	3.6	ug/L	3853	Standard
|	As-1	75	2708.2	5.7	2.0783	0.085	4.1	ug/L	-67	Standard
|	Se	77	151.0	6.3	0.5042	0.080	15.8	ug/L	107	Standard
|	Se	78	4722.1	2.1	0.3283	0.173	52.8	ug/L	4705	Standard
|	Br	79	13617.8	2.6				ug/L	138	Standard
|	Se	82	126.0	22.0	0.3379	0.157	46.3	ug/L	72	Standard
|	Kr	83	58.0	13.7				ug/L	63	Standard
|	Y	89	528041.6	1.5				ug/L	532199	Standard
|	Rh	103	440246.9	1.7				ug/L	467132	Standard
|	Cd	111	305.7	6.7	0.0060	0.006	106.3	ug/L	298	Standard
|	Cd	114	36.2	15.5	-0.0001	0.001	675.8	ug/L	39	Standard
>	In	115	437009.5	1.0				ug/L	453861	Standard
>	Tb	159	581958.5	0.4				ug/L	578005	Standard
|	Ho	165	594893.1	1.1				ug/L	598603	Standard
|	Pb	208	479.0	4.4	-0.0032	0.000	14.5	ug/L	607	Standard
|	Bi	209	329505.5	0.5				ug/L	350942	Standard
|	Th	232	429006.2	0.8				ug/L	438613	Standard
|	Cr-1	52	749.0	5.6	0.6561	0.048	7.3	ug/L	182	KED
|	Cr-1	53	100.3	9.0	0.7446	0.092	12.4	ug/L	22	KED
>	Ge-1	72	9160.6	0.7				ug/L	9326	KED
|	As-2	75	112.7	12.6	2.0484	0.279	13.6	ug/L	2	KED
|	Y-1	89	16538.6	0.6				ug/L	16427	KED
|	Rh-1	103	90875.5	1.2				ug/L	95999	KED
|	Cd-1	111	1.0	100.0	-0.0045	0.005	99.8	ug/L	2	KED
|	Cd-1	114	4.0	18.3	-0.0013	0.001	100.2	ug/L	5	KED
>	In-1	115	10519.8	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		114.066
|	Cr	52		
|	Cr	53		
>	Ge	72		98.304
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-06d 2X

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Cd	114	
In	115	96.287
Tb	159	100.684
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.226
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.313

Quantitative Analysis - Summary Report

Sample ID: 08-268-07d 2X

Sample Date/Time: Thursday, September 01, 2022 14:39:48

Report Date/Time: Monday, September 05, 2022 08:08:11

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-07d 2X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD'	Units	Blank Intens.	Mode
>	Sc	45	451159.3	1.5				ug/L	404154	Standard
|	Cr	52	36328.1	1.7	2.1588	0.028	1.3	ug/L	9082	Standard
|	Cr	53	3076.7	3.2	1.7514	0.085	4.9	ug/L	586	Standard
>	Ge	72	246071.6	0.7				ug/L	253733	Standard
|	As	75	5287.3	1.2	1.2780	0.043	3.4	ug/L	3853	Standard
|	As-1	75	1497.2	4.2	1.1871	0.053	4.4	ug/L	-67	Standard
|	Se	77	137.7	12.5	0.3781	0.185	48.9	ug/L	107	Standard
|	Se	78	4772.5	1.3	0.7195	0.113	15.6	ug/L	4705	Standard
|	Br	79	17821.1	1.6				ug/L	138	Standard
|	Se	82	157.3	7.7	0.5443	0.080	14.7	ug/L	72	Standard
|	Kr	83	73.3	35.7				ug/L	63	Standard
|	Y	89	525052.4	1.1				ug/L	532199	Standard
|	Rh	103	434663.6	1.3				ug/L	467132	Standard
|	Cd	111	294.7	11.7	0.0030	0.012	382.8	ug/L	298	Standard
|	Cd	114	34.4	36.2	-0.0003	0.002	497.4	ug/L	39	Standard
>	In	115	434536.5	0.4				ug/L	453861	Standard
>	Tb	159	575653.3	0.5				ug/L	578005	Standard
|	Ho	165	591275.8	0.0				ug/L	598603	Standard
|	Pb	208	1088.3	5.7	0.0118	0.001	11.8	ug/L	607	Standard
|	Bi	209	321593.6	1.4				ug/L	350942	Standard
|	Th	232	425380.5	0.7				ug/L	438613	Standard
|	Cr-1	52	1046.4	1.6	1.0138	0.023	2.3	ug/L	182	KED
|	Cr-1	53	124.7	5.7	0.9887	0.067	6.8	ug/L	22	KED
>	Ge-1	72	9041.5	0.6				ug/L	9326	KED
|	As-2	75	70.7	11.0	1.2880	0.150	11.6	ug/L	2	KED
|	Y-1	89	16347.7	0.6				ug/L	16427	KED
|	Rh-1	103	89590.7	0.8				ug/L	95999	KED
|	Cd-1	111	3.0	88.2	0.0048	0.012	257.3	ug/L	2	KED
|	Cd-1	114	1.6	55.8	-0.0057	0.002	27.2	ug/L	5	KED
>	In-1	115	10434.6	0.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.631
|	Cr	52		
|	Cr	53		
>	Ge	72		96.980
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-07d 2X

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Cd	114	
In	115	95.742
Tb	159	99.593
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	96.949
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.509

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 14:44:21

Report Date/Time: Monday, September 05, 2022 08:08:13

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381159.3	1.8				ug/L	404154	Standard
|	Cr	52	408616.8	2.7	39.0306	0.732	1.9	ug/L	9082	Standard
|	Cr	53	46456.4	2.1	39.2724	0.562	1.4	ug/L	586	Standard
[>	Ge	72	243910.0	2.3				ug/L	253733	Standard
|	As	75	51801.4	2.2	39.9845	0.668	1.7	ug/L	3853	Standard
|	As-1	75	51560.1	2.5	39.5652	0.644	1.6	ug/L	-67	Standard
|	Se	77	3651.5	2.9	40.0019	0.939	2.3	ug/L	107	Standard
|	Se	78	16097.7	2.1	40.0856	0.556	1.4	ug/L	4705	Standard
|	Br	79	352.0	2.3				ug/L	138	Standard
|	Se	82	6230.7	3.0	38.5031	0.585	1.5	ug/L	72	Standard
|	Kr	83	55.3	5.2				ug/L	63	Standard
|	Y	89	511567.8	2.3				ug/L	532199	Standard
[	Rh	103	436609.8	0.7				ug/L	467132	Standard
|	Cd	111	120463.6	1.2	39.0325	0.457	1.2	ug/L	298	Standard
|	Cd	114	302913.5	0.9	38.8798	0.396	1.0	ug/L	39	Standard
[>	In	115	433660.4	0.7				ug/L	453861	Standard
[>	Tb	159	565839.3	1.1				ug/L	578005	Standard
|	Ho	165	578877.6	0.7				ug/L	598603	Standard
|	Pb	208	1601281.7	0.2	39.6886	0.381	1.0	ug/L	607	Standard
|	Bi	209	335185.7	0.5				ug/L	350942	Standard
|	Th	232	418006.8	0.6				ug/L	438613	Standard
[	Cr-1	52	33254.7	1.7	38.1807	0.338	0.9	ug/L	182	KED
|	Cr-1	53	4043.9	1.5	38.0203	0.513	1.3	ug/L	22	KED
[>	Ge-1	72	9124.6	1.3				ug/L	9326	KED
|	As-2	75	2065.1	1.1	38.3039	0.161	0.4	ug/L	2	KED
|	Y-1	89	16044.0	0.6				ug/L	16427	KED
|	Rh-1	103	91733.6	0.7				ug/L	95999	KED
[	Cd-1	111	8398.1	1.4	39.0233	0.794	2.0	ug/L	2	KED
|	Cd-1	114	21256.6	0.6	38.4659	0.365	0.9	ug/L	5	KED
[>	In-1	115	10380.5	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.310
|	Cr	52	97.576	
|	Cr	53	98.181	
[>	Ge	72		96.128
|	As	75	99.961	
|	As-1	75	98.913	
|	Se	77	100.005	
|	Se	78	100.214	
|	Br	79		
|	Se	82	96.258	
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111	97.581	

Sample ID: QC Std 6

Report Date/Time: Monday, September 05, 2022 08:08:13

—	Cd	114	97.200	
↳	In	115		95.549
↳	Tb	159		97.895
—	Ho	165		
—	Pb	208	99.221	
—	Bi	209		
—	Th	232		
—	Cr-1	52	95.452	
—	Cr-1	53	95.051	
↳	Ge-1	72		97.840
—	As-2	75	95.760	
—	Y-1	89		
—	Rh-1	103		
—	Cd-1	111	97.558	
—	Cd-1	114	96.165	
↳	In-1	115		97.998

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 14:48:53

Report Date/Time: Monday, September 05, 2022 08:08:14

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	379185.3	1.7				ug/L	404154	Standard
|	Cr	52	204573.3	2.5	19.2266	0.274	1.4	ug/L	9082	Standard
|	Cr	53	22862.0	2.1	19.1875	0.222	1.2	ug/L	586	Standard
[>	Ge	72	241382.8	2.7				ug/L	253733	Standard
|	As	75	27082.1	2.3	19.6703	0.101	0.5	ug/L	3853	Standard
|	As-1	75	25068.2	2.2	19.4633	0.103	0.5	ug/L	-67	Standard
|	Se	77	1827.8	2.1	19.6646	0.531	2.7	ug/L	107	Standard
|	Se	78	10123.3	2.5	19.7618	0.057	0.3	ug/L	4705	Standard
|	Br	79	267.7	2.1				ug/L	138	Standard
|	Se	82	3072.0	2.3	18.9686	0.069	0.4	ug/L	72	Standard
|	Kr	83	53.7	3.9				ug/L	63	Standard
|	Y	89	502225.0	2.9				ug/L	532199	Standard
|	Rh	103	433528.7	2.1				ug/L	467132	Standard
|	Cd	111	59408.4	0.5	19.5222	0.126	0.6	ug/L	298	Standard
|	Cd	114	147177.0	0.5	19.2011	0.170	0.9	ug/L	39	Standard
[>	In	115	426602.2	0.9				ug/L	453861	Standard
[>	Tb	159	556240.5	0.5				ug/L	578005	Standard
|	Ho	165	568383.1	0.9				ug/L	598603	Standard
|	Pb	208	774735.1	0.5	19.5251	0.147	0.8	ug/L	607	Standard
|	Bi	209	329882.7	0.3				ug/L	350942	Standard
|	Th	232	409592.5	0.3				ug/L	438613	Standard
|	Cr-1	52	16202.5	0.9	18.9534	0.282	1.5	ug/L	182	KED
|	Cr-1	53	1979.1	2.3	18.9577	0.314	1.7	ug/L	22	KED
[>	Ge-1	72	8908.1	0.7				ug/L	9326	KED
|	As-2	75	1010.7	2.9	19.1826	0.514	2.7	ug/L	2	KED
|	Y-1	89	15779.7	0.2				ug/L	16427	KED
|	Rh-1	103	91520.6	0.8				ug/L	95999	KED
|	Cd-1	111	4105.9	0.6	19.3101	0.270	1.4	ug/L	2	KED
|	Cd-1	114	10412.1	1.8	19.0710	0.391	2.1	ug/L	5	KED
[>	In-1	115	10253.3	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.822
|	Cr	52	96.133	
|	Cr	53	95.938	
[>	Ge	72		95.132
|	As	75	98.351	
|	As-1	75	97.317	
	Se	77	98.323	
	Se	78	98.809	
	Br	79		
	Se	82	94.843	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	97.611	

Sample ID: QC Std 7

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	Cd	114	96.006	
	In	115		93.994
	Tb	159		96.235
	Ho	165		
	Pb	208	97.625	
	Bi	209		
	Th	232		
	Cr-1	52	94.767	
	Cr-1	53	94.789	
	Ge-1	72		95.519
	As-2	75	95.913	
	Y-1	89		
	Rh-1	103		
	Cd-1	111	96.551	
	Cd-1	114	95.355	
	In-1	115		96.797

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 14:53:26

Report Date/Time: Monday, September 05, 2022 08:08:16

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	379291.2	2.7				ug/L	404154	Standard
|	Cr	52	9260.0	2.5	0.0723	0.012	17.1	ug/L	9082	Standard
|	Cr	53	631.0	4.4	0.0696	0.013	18.2	ug/L	586	Standard
[>	Ge	72	239089.0	2.0				ug/L	253733	Standard
|	As	75	3783.8	3.2	0.1300	0.067	51.5	ug/L	3853	Standard
|	As-1	75	-70.9	64.0	-0.0062	0.036	581.4	ug/L	-67	Standard
|	Se	77	99.7	10.1	-0.0138	0.107	777.3	ug/L	107	Standard
|	Se	78	4608.4	2.1	0.6194	0.208	33.6	ug/L	4705	Standard
|	Br	79	211.7	8.3				ug/L	138	Standard
|	Se	82	63.3	6.6	-0.0270	0.019	69.9	ug/L	72	Standard
|	Kr	83	51.0	11.8				ug/L	63	Standard
|	Y	89	496146.7	2.0				ug/L	532199	Standard
|	Rh	103	434579.8	2.4				ug/L	467132	Standard
|	Cd	111	283.1	5.6	-0.0003	0.005	1700.2	ug/L	298	Standard
|	Cd	114	36.8	23.7	0.0000	0.001	10763.4	ug/L	39	Standard
[>	In	115	432192.6	0.2				ug/L	453861	Standard
[>	Tb	159	557450.5	0.2				ug/L	578005	Standard
|	Ho	165	573010.2	0.9				ug/L	598603	Standard
|	Pb	208	871.3	13.0	0.0072	0.003	39.2	ug/L	607	Standard
|	Bi	209	330006.9	0.8				ug/L	350942	Standard
|	Th	232	413737.2	0.5				ug/L	438613	Standard
|	Cr-1	52	167.3	9.5	-0.0116	0.018	158.8	ug/L	182	KED
|	Cr-1	53	20.7	12.2	-0.0048	0.022	451.8	ug/L	22	KED
[>	Ge-1	72	9106.9	1.3				ug/L	9326	KED
|	As-2	75	1.3	86.6	-0.0116	0.021	183.8	ug/L	2	KED
|	Y-1	89	16137.8	1.5				ug/L	16427	KED
|	Rh-1	103	93361.5	2.0				ug/L	95999	KED
|	Cd-1	111	2.0	50.0	0.0001	0.005	3688.3	ug/L	2	KED
|	Cd-1	114	7.3	20.0	0.0047	0.003	56.5	ug/L	5	KED
[>	In-1	115	10431.9	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.848
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.228
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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]	Cd	114	
]	In	115	95.226
]	Tb	159	96.444
]	Ho	165	
]	Pb	208	
]	Bi	209	
]	Th	232	
]	Cr-1	52	
]	Cr-1	53	
]	Ge-1	72	97.650
]	As-2	75	
]	Y-1	89	
]	Rh-1	103	
]	Cd-1	111	
]	Cd-1	114	
]	In-1	115	98.483

Quantitative Analysis - Summary Report

Sample ID: 08-268-08d 2X

Sample Date/Time: Thursday, September 01, 2022 14:58:45

Report Date/Time: Monday, September 05, 2022 08:08:18

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-08d 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	433797.4	2.1				ug/L	404154	Standard
|	Cr	52	20096.8	5.2	0.8869	0.073	8.3	ug/L	9082	Standard
|	Cr	53	1201.4	2.6	0.4303	0.017	4.1	ug/L	586	Standard
[>	Ge	72	245642.6	2.7				ug/L	253733	Standard
|	As	75	5931.1	4.2	1.8157	0.073	4.0	ug/L	3853	Standard
|	As-1	75	2097.9	3.9	1.6457	0.024	1.5	ug/L	-67	Standard
|	Se	77	123.3	10.9	0.2243	0.188	83.6	ug/L	107	Standard
|	Se	78	4683.4	4.3	0.4379	0.257	58.7	ug/L	4705	Standard
|	Br	79	8513.9	0.5				ug/L	138	Standard
|	Se	82	102.7	15.7	0.2066	0.100	48.3	ug/L	72	Standard
|	Kr	83	54.0	17.7				ug/L	63	Standard
|	Y	89	514436.1	0.7				ug/L	532199	Standard
|	Rh	103	431887.9	1.6				ug/L	467132	Standard
|	Cd	111	320.7	5.8	0.0127	0.007	53.7	ug/L	298	Standard
|	Cd	114	169.1	9.5	0.0172	0.002	13.0	ug/L	39	Standard
[>	In	115	429189.9	0.8				ug/L	453861	Standard
[>	Tb	159	570941.7	0.5				ug/L	578005	Standard
|	Ho	165	585815.8	0.5				ug/L	598603	Standard
|	Pb	208	815.7	5.0	0.0053	0.001	17.1	ug/L	607	Standard
|	Bi	209	325721.6	0.6				ug/L	350942	Standard
|	Th	232	422963.2	1.1				ug/L	438613	Standard
|	Cr-1	52	270.3	5.4	0.1047	0.016	15.1	ug/L	182	KED
|	Cr-1	53	38.7	4.0	0.1626	0.017	10.7	ug/L	22	KED
[>	Ge-1	72	9189.0	1.0				ug/L	9326	KED
|	As-2	75	89.0	6.8	1.6048	0.120	7.5	ug/L	2	KED
|	Y-1	89	16350.4	1.2				ug/L	16427	KED
|	Rh-1	103	91202.5	0.8				ug/L	95999	KED
|	Cd-1	111	6.0	44.1	0.0179	0.012	66.0	ug/L	2	KED
|	Cd-1	114	12.9	28.9	0.0143	0.007	47.1	ug/L	5	KED
[>	In-1	115	10691.7	1.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.335
|	Cr	52		
|	Cr	53		
[>	Ge	72		96.811
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-08d 2X

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Cd	114	
In	115	94.564
Tb	159	98.778
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.530
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	100.936

Quantitative Analysis - Summary Report

Sample ID: 08-268-09d 2X

Sample Date/Time: Thursday, September 01, 2022 15:03:17

Report Date/Time: Monday, September 05, 2022 08:08:20

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-09d 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	459581.6	1.9				ug/L	404154	Standard
|	Cr	52	42942.5	2.6	2.6388	0.029	1.1	ug/L	9082	Standard
|	Cr	53	4182.3	0.9	2.4950	0.030	1.2	ug/L	586	Standard
[>	Ge	72	245658.7	2.6				ug/L	253733	Standard
|	As	75	4985.1	1.5	1.0366	0.042	4.1	ug/L	3853	Standard
|	As-1	75	1276.5	2.5	1.0212	0.024	2.4	ug/L	-67	Standard
|	Se	77	163.3	11.5	0.6686	0.203	30.4	ug/L	107	Standard
|	Se	78	4650.4	1.6	0.3306	0.167	50.4	ug/L	4705	Standard
|	Br	79	20425.9	2.8				ug/L	138	Standard
|	Se	82	146.3	4.6	0.4777	0.043	8.9	ug/L	72	Standard
|	Kr	83	63.0	13.6				ug/L	63	Standard
|	Y	89	517400.8	2.3				ug/L	532199	Standard
|	Rh	103	427850.0	2.8				ug/L	467132	Standard
|	Cd	111	301.2	10.7	0.0077	0.011	138.4	ug/L	298	Standard
|	Cd	114	42.5	33.1	0.0009	0.002	213.3	ug/L	39	Standard
[>	In	115	423353.4	0.6				ug/L	453861	Standard
[>	Tb	159	565689.6	0.6				ug/L	578005	Standard
|	Ho	165	579812.5	0.5				ug/L	598603	Standard
|	Pb	208	1005.3	1.4	0.0102	0.000	2.5	ug/L	607	Standard
|	Bi	209	315881.3	0.9				ug/L	350942	Standard
|	Th	232	421080.0	0.9				ug/L	438613	Standard
|	Cr-1	52	1411.1	3.4	1.4309	0.046	3.2	ug/L	182	KED
|	Cr-1	53	166.3	9.9	1.3783	0.148	10.7	ug/L	22	KED
[>	Ge-1	72	9083.2	0.7				ug/L	9326	KED
|	As-2	75	55.7	10.4	1.0020	0.110	10.9	ug/L	2	KED
|	Y-1	89	16356.0	1.8				ug/L	16427	KED
|	Rh-1	103	89668.2	1.2				ug/L	95999	KED
|	Cd-1	111	4.3	26.6	0.0112	0.006	49.7	ug/L	2	KED
|	Cd-1	114	3.5	109.6	-0.0022	0.007	320.7	ug/L	5	KED
[>	In-1	115	10327.0	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		113.715
|	Cr	52		
|	Cr	53		
[>	Ge	72		96.818
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-09d 2X

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	Cd	114	
>	In	115	93.278
>	Tb	159	97.869
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	97.396
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	97.493

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cD 2X

Sample Date/Time: Thursday, September 01, 2022 15:07:49

Report Date/Time: Monday, September 05, 2022 08:08:22

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cD 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	451660.4	0.8				ug/L	404154	Standard
|	Cr	52	16452.8	2.8	0.5189	0.030	5.7	ug/L	9082	Standard
|	Cr	53	2435.9	2.5	1.2858	0.042	3.3	ug/L	586	Standard
>	Ge	72	247765.6	2.5				ug/L	253733	Standard
|	As	75	4109.7	1.8	0.2850	0.028	9.8	ug/L	3853	Standard
|	As-1	75	278.0	5.5	0.2596	0.015	5.9	ug/L	-67	Standard
|	Se	77	149.0	6.6	0.4939	0.101	20.5	ug/L	107	Standard
|	Se	78	4666.4	2.6	0.2470	0.185	74.9	ug/L	4705	Standard
|	Br	79	5249.6	2.0				ug/L	138	Standard
|	Se	82	96.7	10.6	0.1639	0.058	35.2	ug/L	72	Standard
|	Kr	83	58.7	11.6				ug/L	63	Standard
|	Y	89	525151.3	1.1				ug/L	532199	Standard
|	Rh	103	435274.7	1.5				ug/L	467132	Standard
|	Cd	111	301.8	2.6	0.0051	0.002	41.0	ug/L	298	Standard
|	Cd	114	95.9	16.3	0.0075	0.002	25.8	ug/L	39	Standard
>	In	115	435337.5	0.9				ug/L	453861	Standard
>	Tb	159	570607.3	0.3				ug/L	578005	Standard
|	Ho	165	588994.0	0.6				ug/L	598603	Standard
|	Pb	208	1308.7	4.5	0.0175	0.002	8.9	ug/L	607	Standard
|	Bi	209	328718.7	0.4				ug/L	350942	Standard
|	Th	232	423879.4	0.5				ug/L	438613	Standard
|	Cr-1	52	358.7	3.8	0.2055	0.014	6.7	ug/L	182	KED
|	Cr-1	53	44.3	7.9	0.2153	0.032	14.9	ug/L	22	KED
>	Ge-1	72	9198.3	0.5				ug/L	9326	KED
|	As-2	75	11.7	21.6	0.1786	0.047	26.1	ug/L	2	KED
|	Y-1	89	16529.6	1.2				ug/L	16427	KED
|	Rh-1	103	91519.9	1.3				ug/L	95999	KED
|	Cd-1	111	4.0	66.1	0.0091	0.012	131.9	ug/L	2	KED
|	Cd-1	114	6.7	26.3	0.0034	0.003	93.0	ug/L	5	KED
>	In-1	115	10605.3	0.4				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		111.755
|	Cr	52		
|	Cr	53		
>	Ge	72		97.648
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-298-01cD 2X

Report Date/Time: Monday, September 05, 2022 08:08:22

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Quantitative Analysis - Summary Report

Sample ID: 08-298-01cL 10X

Sample Date/Time: Thursday, September 01, 2022 15:12:21

Report Date/Time: Monday, September 05, 2022 08:08:24

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cL 10X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	388035.7	0.9				ug/L	404154	Standard
[	Cr	52	11028.6	3.7	0.2211	0.030	13.5	ug/L	9082	Standard
[	Cr	53	1058.0	5.1	0.4161	0.037	9.0	ug/L	586	Standard
[>	Ge	72	238538.0	2.1				ug/L	253733	Standard
|	As	75	3770.6	1.6	0.1267	0.019	14.8	ug/L	3853	Standard
|	As-1	75	-47.6	46.9	0.0121	0.018	149.4	ug/L	-67	Standard
|	Se	77	120.7	6.2	0.2308	0.063	27.5	ug/L	107	Standard
|	Se	78	4590.7	1.1	0.5964	0.190	31.8	ug/L	4705	Standard
|	Br	79	1327.1	0.5				ug/L	138	Standard
[	Se	82	73.0	7.2	0.0359	0.032	90.1	ug/L	72	Standard
|	Kr	83	61.0	4.3				ug/L	63	Standard
|	Y	89	486494.0	1.2				ug/L	532199	Standard
[	Rh	103	416841.4	1.4				ug/L	467132	Standard
|	Cd	111	266.4	8.8	-0.0018	0.008	410.0	ug/L	298	Standard
|	Cd	114	50.5	15.6	0.0021	0.001	50.8	ug/L	39	Standard
[>	In	115	413493.7	0.6				ug/L	453861	Standard
[>	Tb	159	540797.3	1.2				ug/L	578005	Standard
|	Ho	165	554861.9	0.1				ug/L	598603	Standard
|	Pb	208	1441.4	3.9	0.0227	0.001	5.3	ug/L	607	Standard
|	Bi	209	319596.4	0.3				ug/L	350942	Standard
[	Th	232	398942.9	0.6				ug/L	438613	Standard
[	Cr-1	52	210.0	12.5	0.0469	0.034	71.6	ug/L	182	KED
|	Cr-1	53	26.7	47.5	0.0610	0.123	200.8	ug/L	22	KED
[>	Ge-1	72	8780.7	0.8				ug/L	9326	KED
[	As-2	75	4.3	74.2	0.0476	0.063	132.3	ug/L	2	KED
|	Y-1	89	15535.8	1.9				ug/L	16427	KED
|	Rh-1	103	88165.2	0.7				ug/L	95999	KED
[	Cd-1	111	2.3	49.5	0.0019	0.005	289.1	ug/L	2	KED
|	Cd-1	114	4.3	66.8	-0.0007	0.005	789.2	ug/L	5	KED
[>	In-1	115	10242.2	0.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		96.012
|	Cr	52		
[	Cr	53		
[>	Ge	72		94.011
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

Sample ID: 08-298-01cL 10X

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Cd	114	
In	115	91.106
Tb	159	93.563
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.152
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	96.692

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cMS 2X

Sample Date/Time: Thursday, September 01, 2022 15:16:53

Report Date/Time: Monday, September 05, 2022 08:08:27

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMS 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	453803.8	1.9				ug/L	404154	Standard
[	Cr	52	432012.2	2.3	34.5684	0.646	1.9	ug/L	9082	Standard
[	Cr	53	50672.1	2.4	35.9399	0.686	1.9	ug/L	586	Standard
[>	Ge	72	253056.9	1.4				ug/L	253733	Standard
[	As	75	55104.3	2.9	41.0652	0.761	1.9	ug/L	3853	Standard
[	As-1	75	55321.7	2.7	40.9082	0.541	1.3	ug/L	-67	Standard
[	Se	77	3896.5	3.3	41.1758	1.369	3.3	ug/L	107	Standard
[	Se	78	16684.4	2.7	40.0253	1.263	3.2	ug/L	4705	Standard
[	Br	79	5181.3	0.8				ug/L	138	Standard
[	Se	82	6670.2	1.6	39.7448	0.243	0.6	ug/L	72	Standard
[	Kr	83	55.0	14.9				ug/L	63	Standard
[	Y	89	523354.9	1.4				ug/L	532199	Standard
[	Rh	103	443577.6	1.9				ug/L	467132	Standard
[	Cd	111	123562.4	1.4	39.6701	0.410	1.0	ug/L	298	Standard
[	Cd	114	310940.4	1.0	39.5434	0.308	0.8	ug/L	39	Standard
[>	In	115	437669.1	0.4				ug/L	453861	Standard
[>	Tb	159	582275.9	0.9				ug/L	578005	Standard
[	Ho	165	593555.2	0.2				ug/L	598603	Standard
[	Pb	208	1615664.5	0.2	38.9140	0.380	1.0	ug/L	607	Standard
[	Bi	209	331996.3	0.8				ug/L	350942	Standard
[	Th	232	428163.7	0.5				ug/L	438613	Standard
[	Cr-1	52	33773.5	0.5	39.0151	0.560	1.4	ug/L	182	KED
[	Cr-1	53	4168.9	1.5	39.4337	0.381	1.0	ug/L	22	KED
[>	Ge-1	72	9070.9	1.2				ug/L	9326	KED
[	As-2	75	2206.2	0.2	41.1667	0.417	1.0	ug/L	2	KED
[	Y-1	89	16388.1	0.4				ug/L	16427	KED
[	Rh-1	103	92057.3	0.7				ug/L	95999	KED
[	Cd-1	111	8564.9	1.2	38.4543	0.694	1.8	ug/L	2	KED
[	Cd-1	114	22221.8	1.1	38.8565	0.633	1.6	ug/L	5	KED
[>	In-1	115	10742.7	1.0				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		112.285
[	Cr	52		
[	Cr	53		
[>	Ge	72		99.733
[As	75		
[As-1	75		
[Se	77		
[Se	78		
[Br	79		
[Se	82		
[Kr	83		
[Y	89		
[Rh	103		
[Cd	111		

Sample ID: 08-298-01cMS 2X

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Cd	114	
In	115	96.432
Tb	159	100.739
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.264
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	101.418

Quantitative Analysis - Summary Report

Sample ID: 08-298-01cMSD 2X

Sample Date/Time: Thursday, September 01, 2022 15:21:24

Report Date/Time: Monday, September 05, 2022 08:08:29

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-298-01cMSD 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	458602.3	2.0				ug/L	404154	Standard
|	Cr	52	441974.3	3.3	34.9983	0.524	1.5	ug/L	9082	Standard
|	Cr	53	50681.1	2.9	35.5597	0.361	1.0	ug/L	586	Standard
[>	Ge	72	251478.6	2.8				ug/L	253733	Standard
|	As	75	55517.2	0.9	41.6967	0.900	2.2	ug/L	3853	Standard
|	As-1	75	55257.5	1.4	41.1322	0.560	1.4	ug/L	-67	Standard
|	Se	77	3848.2	2.7	40.9223	1.179	2.9	ug/L	107	Standard
|	Se	78	16866.6	1.4	41.0060	1.167	2.8	ug/L	4705	Standard
|	Br	79	5150.9	4.3				ug/L	138	Standard
|	Se	82	6525.2	3.3	39.1144	0.267	0.7	ug/L	72	Standard
|	Kr	83	67.0	11.8				ug/L	63	Standard
|	Y	89	524366.1	2.1				ug/L	532199	Standard
|	Rh	103	436024.6	1.9				ug/L	467132	Standard
|	Cd	111	123597.3	0.1	39.8627	0.204	0.5	ug/L	298	Standard
|	Cd	114	312689.8	0.7	39.9460	0.136	0.3	ug/L	39	Standard
[>	In	115	435697.8	0.4				ug/L	453861	Standard
[>	Tb	159	583221.1	0.3				ug/L	578005	Standard
|	Ho	165	597476.0	0.9				ug/L	598603	Standard
|	Pb	208	1639122.6	0.9	39.4140	0.472	1.2	ug/L	607	Standard
|	Bi	209	333190.6	0.7				ug/L	350942	Standard
|	Th	232	429795.6	0.5				ug/L	438613	Standard
|	Cr-1	52	34196.6	1.2	39.0332	0.566	1.4	ug/L	182	KED
|	Cr-1	53	4174.3	1.8	39.0140	0.636	1.6	ug/L	22	KED
[>	Ge-1	72	9179.6	0.6				ug/L	9326	KED
|	As-2	75	2251.2	2.0	41.5074	0.904	2.2	ug/L	2	KED
|	Y-1	89	16427.4	0.4				ug/L	16427	KED
|	Rh-1	103	92028.1	0.7				ug/L	95999	KED
|	Cd-1	111	8707.0	0.4	38.7170	0.309	0.8	ug/L	2	KED
|	Cd-1	114	22414.6	0.6	38.8181	0.426	1.1	ug/L	5	KED
[>	In-1	115	10846.2	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		113.472
|	Cr	52		
|	Cr	53		
[>	Ge	72		99.111
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-298-01cMSD 2X

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Cd	114	
In	115	95.998
Tb	159	100.902
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.430
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	102.394

Quantitative Analysis - Summary Report

Sample ID: MB0901WM1 2X

Sample Date/Time: Thursday, September 01, 2022 15:25:55

Report Date/Time: Monday, September 05, 2022 08:08:31

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\MB0901WM1 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381432.4	1.0				ug/L	404154	Standard
|	Cr	52	9913.8	3.4	0.1307	0.024	18.0	ug/L	9082	Standard
|	Cr	53	637.3	7.7	0.0718	0.037	51.9	ug/L	586	Standard
[>	Ge	72	240808.5	1.9				ug/L	253733	Standard
|	As	75	3864.2	2.9	0.1754	0.094	53.5	ug/L	3853	Standard
|	As-1	75	-100.2	36.6	-0.0280	0.028	99.6	ug/L	-87	Standard
|	Se	77	116.0	10.2	0.1653	0.138	83.6	ug/L	107	Standard
|	Se	78	4717.1	2.6	0.8843	0.330	37.3	ug/L	4705	Standard
|	Br	79	419.7	10.1				ug/L	138	Standard
|	Se	82	56.3	15.3	-0.0745	0.049	65.4	ug/L	72	Standard
|	Kr	83	63.3	12.8				ug/L	63	Standard
|	Y	89	501711.8	1.8				ug/L	532199	Standard
[	Rh	103	429273.0	1.1				ug/L	467132	Standard
|	Cd	111	269.4	7.2	-0.0018	0.006	341.0	ug/L	298	Standard
|	Cd	114	66.6	25.2	0.0041	0.002	53.0	ug/L	39	Standard
[>	In	115	417847.4	0.8				ug/L	453861	Standard
[>	Tb	159	544346.8	0.1				ug/L	578005	Standard
|	Ho	165	560952.7	0.7				ug/L	598603	Standard
|	Pb	208	1443.4	4.6	0.0225	0.002	7.8	ug/L	607	Standard
|	Bi	209	318326.5	0.1				ug/L	350942	Standard
|	Th	232	402001.4	0.4				ug/L	438613	Standard
[	Cr-1	52	180.7	1.6	0.0099	0.004	36.2	ug/L	182	KED
|	Cr-1	53	23.7	32.0	0.0303	0.074	243.3	ug/L	22	KED
[>	Ge-1	72	8849.1	0.3				ug/L	9326	KED
|	As-2	75	1.7	34.6	-0.0044	0.011	249.6	ug/L	2	KED
|	Y-1	89	15801.1	0.9				ug/L	16427	KED
|	Rh-1	103	90931.2	0.8				ug/L	95999	KED
[	Cd-1	111	3.3	34.6	0.0064	0.005	84.3	ug/L	2	KED
|	Cd-1	114	5.7	14.6	0.0017	0.001	80.7	ug/L	5	KED
[>	In-1	115	10371.7	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.378
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.906
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

Sample ID: MB0901WM1 2X

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Cd	114	
In	115	92.065
Tb	159	94.177
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.886
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.915

Quantitative Analysis - Summary Report

Sample ID: SB0901WM1 2X

Sample Date/Time: Thursday, September 01, 2022 15:30:26

Report Date/Time: Monday, September 05, 2022 08:08:33

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\SB0901WM1 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	387283.0	3.0				ug/L	404154	Standard
|	Cr	52	520391.2	4.3	49.1215	0.635	1.3	ug/L	9082	Standard
|	Cr	53	59149.3	3.5	49.3272	0.590	1.2	ug/L	586	Standard
[>	Ge	72	239759.6	2.9				ug/L	253733	Standard
|	As	75	62182.8	2.6	49.5078	0.163	0.3	ug/L	3853	Standard
|	As-1	75	62657.7	2.5	48.9021	0.289	0.6	ug/L	-67	Standard
|	Se	77	4261.0	4.2	47.7075	1.819	3.8	ug/L	107	Standard
|	Se	78	18379.8	2.9	49.0884	0.647	1.3	ug/L	4705	Standard
|	Br	79	251.0	6.4				ug/L	138	Standard
|	Se	82	7454.9	2.5	46.9661	0.421	0.9	ug/L	72	Standard
|	Kr	83	73.3	43.8				ug/L	63	Standard
|	Y	89	498557.0	2.5				ug/L	532199	Standard
|	Rh	103	432504.5	3.1				ug/L	467132	Standard
|	Cd	111	142981.4	0.7	48.2491	0.474	1.0	ug/L	298	Standard
|	Cd	114	363224.5	0.8	48.5305	0.067	0.1	ug/L	39	Standard
[>	In	115	416595.0	0.6				ug/L	453861	Standard
[>	Tb	159	551219.6	1.4				ug/L	578005	Standard
|	Ho	165	560542.4	1.7				ug/L	598603	Standard
|	Pb	208	1944621.2	1.4	49.4781	0.385	0.8	ug/L	607	Standard
|	Bi	209	321301.4	1.3				ug/L	350942	Standard
|	Th	232	401853.6	1.6				ug/L	438613	Standard
|	Cr-1	52	40930.6	0.7	48.7135	0.740	1.5	ug/L	182	KED
|	Cr-1	53	5080.2	2.4	49.5021	0.655	1.3	ug/L	22	KED
[>	Ge-1	72	8814.7	2.2				ug/L	9326	KED
|	As-2	75	2508.2	0.8	48.1849	1.348	2.8	ug/L	2	KED
|	Y-1	89	15660.6	0.9				ug/L	16427	KED
|	Rh-1	103	90176.5	2.0				ug/L	95999	KED
|	Cd-1	111	10273.4	1.0	47.7947	0.091	0.2	ug/L	2	KED
|	Cd-1	114	26402.7	0.8	47.8420	0.601	1.3	ug/L	5	KED
[>	In-1	115	10367.0	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		95.826
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.493
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0901WM1 2X

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Cd	114	
In	115	91.789
Tb	159	95.366
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.517
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.871

Quantitative Analysis - Summary Report

Sample ID: 08-238-05c 2X

Sample Date/Time: Thursday, September 01, 2022 15:34:58

Report Date/Time: Monday, September 05, 2022 08:08:34

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05c 2X.038

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	458679.1	2.3			ug/L	404154	Standard
|	Cr	52	13175.1	2.6	0.2329	0.039	16.9	9082	Standard
|	Cr	53	1436.4	5.6	0.5478	0.033	6.1	586	Standard
[>	Ge	72	240562.0	1.9			ug/L	253733	Standard
|	As	75	4843.7	1.4	1.0042	0.023	2.3	3853	Standard
|	As-1	75	1054.5	2.1	0.8690	0.011	1.3	-67	Standard
|	Se	77	135.0	6.1	0.3831	0.078	20.5	107	Standard
|	Se	78	4609.7	1.7	0.5242	0.043	8.3	4705	Standard
|	Br	79	5089.9	2.1			ug/L	138	Standard
|	Se	82	93.7	9.7	0.1624	0.046	28.5	72	Standard
|	Kr	83	57.3	22.1			ug/L	63	Standard
|	Y	89	499635.9	2.7			ug/L	532199	Standard
|	Rh	103	420145.3	2.2			ug/L	467132	Standard
|	Cd	111	298.4	3.8	0.0091	0.004	42.0	298	Standard
|	Cd	114	78.0	9.1	0.0058	0.001	16.7	39	Standard
[>	In	115	413472.2	0.5			ug/L	453861	Standard
[>	Tb	159	549164.8	0.5			ug/L	578005	Standard
|	Ho	165	561859.8	0.6			ug/L	598603	Standard
|	Pb	208	1447.7	4.1	0.0223	0.002	7.0	607	Standard
|	Bi	209	314411.9	0.2			ug/L	350942	Standard
|	Th	232	405902.2	0.6			ug/L	438613	Standard
|	Cr-1	52	432.7	1.2	0.3174	0.008	2.5	182	KED
|	Cr-1	53	49.0	19.5	0.2837	0.091	32.0	22	KED
[>	Ge-1	72	8721.3	0.9			ug/L	9326	KED
|	As-2	75	52.3	14.1	0.9797	0.138	14.0	2	KED
|	Y-1	89	15755.4	0.9			ug/L	16427	KED
|	Rh-1	103	88397.7	0.7			ug/L	95999	KED
|	Cd-1	111	4.3	48.0	0.0114	0.010	85.3	2	KED
|	Cd-1	114	8.4	67.1	0.0071	0.010	146.3	5	KED
[>	In-1	115	10175.8	1.3			ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		113.491
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.809
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05c 2X

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Quantitative Analysis - Summary Report

Sample ID: 08-238-05cD 2X

Sample Date/Time: Thursday, September 01, 2022 15:39:31

Report Date/Time: Monday, September 05, 2022 08:08:36

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cD 2X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	448884.0	2.1				ug/L	404154	Standard
|	Cr	52	13246.5	3.2	0.2616	0.018	6.7	ug/L	9082	Standard
|	Cr	53	1312.1	4.7	0.4805	0.046	9.5	ug/L	586	Standard
[>	Ge	72	239717.1	2.1				ug/L	253733	Standard
|	As	75	4947.4	2.5	1.1059	0.029	2.6	ug/L	3853	Standard
|	As-1	75	1047.0	6.4	0.8656	0.036	4.2	ug/L	-67	Standard
|	Se	77	120.0	2.5	0.2176	0.055	25.4	ug/L	107	Standard
|	Se	78	4727.1	1.9	0.9951	0.073	7.3	ug/L	4705	Standard
|	Br	79	5500.4	4.0				ug/L	138	Standard
|	Se	82	89.3	10.9	0.1368	0.050	36.2	ug/L	72	Standard
|	Kr	83	52.3	19.9				ug/L	63	Standard
|	Y	89	498611.1	1.9				ug/L	532199	Standard
|	Rh	103	413107.2	2.1				ug/L	467132	Standard
|	Cd	111	267.1	3.8	-0.0012	0.003	257.8	ug/L	298	Standard
|	Cd	114	29.3	35.1	-0.0008	0.001	184.1	ug/L	39	Standard
[>	In	115	411746.0	0.4				ug/L	453861	Standard
[>	Tb	159	545281.8	0.2				ug/L	578005	Standard
|	Ho	165	562238.9	0.5				ug/L	598603	Standard
|	Pb	208	1896.7	1.2	0.0341	0.001	2.0	ug/L	607	Standard
|	Bi	209	312254.7	0.1				ug/L	350942	Standard
|	Th	232	402108.8	0.6				ug/L	438613	Standard
|	Cr-1	52	459.0	4.6	0.3618	0.028	7.8	ug/L	182	KED
|	Cr-1	53	43.7	5.3	0.2411	0.021	8.9	ug/L	22	KED
[>	Ge-1	72	8528.2	0.6				ug/L	9326	KED
|	As-2	75	55.7	14.4	1.0697	0.163	15.2	ug/L	2	KED
|	Y-1	89	15580.5	0.7				ug/L	16427	KED
|	Rh-1	103	86890.4	0.4				ug/L	95999	KED
|	Cd-1	111	2.0	100.0	0.0004	0.010	2234.0	ug/L	2	KED
|	Cd-1	114	5.5	36.2	0.0017	0.004	215.3	ug/L	5	KED
[>	In-1	115	10158.6	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		111.068
|	Cr	52		
|	Cr	53		
[>	Ge	72		94.476
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05cD 2X

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Cd	114	
In	115	90.721
Tb	159	94.339
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	91.445
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	95.904

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 15:44:04

Report Date/Time: Monday, September 05, 2022 08:08:39

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	381609.7	2.5				ug/L	404154	Standard
|	Cr	52	410687.6	2.3	39.1880	0.357	0.9	ug/L	9082	Standard
|	Cr	53	46978.2	3.1	39.6658	0.265	0.7	ug/L	586	Standard
[>	Ge	72	242863.6	2.6				ug/L	253733	Standard
|	As	75	51631.0	2.8	40.0225	0.198	0.5	ug/L	3853	Standard
|	As-1	75	51580.5	2.9	39.7471	0.320	0.8	ug/L	-67	Standard
|	Se	77	3575.1	4.0	39.3018	0.579	1.5	ug/L	107	Standard
|	Se	78	15848.8	2.6	39.4568	0.122	0.3	ug/L	4705	Standard
|	Br	79	385.0	9.9				ug/L	138	Standard
|	Se	82	6219.4	3.0	38.6005	0.432	1.1	ug/L	72	Standard
|	Kr	83	54.7	3.8				ug/L	63	Standard
|	Y	89	497834.5	1.7				ug/L	532199	Standard
[	Rh	103	426144.1	1.2				ug/L	467132	Standard
|	Cd	111	120616.8	0.3	39.7680	0.143	0.4	ug/L	298	Standard
|	Cd	114	304080.0	1.0	39.7121	0.373	0.9	ug/L	39	Standard
[>	In	115	426201.8	0.6				ug/L	453861	Standard
[>	Tb	159	558070.4	0.4				ug/L	578005	Standard
|	Ho	165	570960.8	0.8				ug/L	598603	Standard
|	Pb	208	1595082.2	0.6	40.0824	0.088	0.2	ug/L	607	Standard
|	Bi	209	329733.2	1.0				ug/L	350942	Standard
|	Th	232	407573.3	1.0				ug/L	438613	Standard
[	Cr-1	52	33999.1	0.6	38.8318	0.296	0.8	ug/L	182	KED
|	Cr-1	53	4210.0	0.8	39.3779	0.564	1.4	ug/L	22	KED
[>	Ge-1	72	9173.9	1.3				ug/L	9326	KED
[	As-2	75	2171.8	2.0	40.0740	1.117	2.8	ug/L	2	KED
|	Y-1	89	16138.1	0.7				ug/L	16427	KED
|	Rh-1	103	93383.6	1.3				ug/L	95999	KED
[	Cd-1	111	8600.3	1.1	39.2497	0.130	0.3	ug/L	2	KED
|	Cd-1	114	21845.2	0.9	38.8285	0.088	0.2	ug/L	5	KED
[>	In-1	115	10567.6	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		94.422
|	Cr	52	97.970	
|	Cr	53	99.165	
[>	Ge	72		95.716
|	As	75	100.056	
|	As-1	75	99.368	
	Se	77	98.254	
	Se	78	98.642	
	Br	79		
	Se	82	96.501	
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111	99.420	

Sample ID: QC Std 6

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	Cd	114	99.280	
>	In	115		93.906
>	Tb	159		96.551
	Ho	165		
	Pb	208	100.206	
	Bi	209		
	Th	232		
	Cr-1	52	97.079	
	Cr-1	53	98.445	
>	Ge-1	72		98.369
	As-2	75	100.185	
	Y-1	89		
	Rh-1	103		
	Cd-1	111	98.124	
	Cd-1	114	97.071	
>	In-1	115		99.764

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 15:48:36

Report Date/Time: Monday, September 05, 2022 08:08:41

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	377960.2	2.4				ug/L	404154	Standard
|	Cr	52	214731.5	2.5	20.2925	0.234	1.2	ug/L	9082	Standard
|	Cr	53	24116.7	2.6	20.3364	0.429	2.1	ug/L	586	Standard
[>	Ge	72	238947.9	2.9				ug/L	253733	Standard
|	As	75	28109.9	3.2	20.7715	0.161	0.8	ug/L	3853	Standard
|	As-1	75	26145.7	3.1	20.5021	0.151	0.7	ug/L	-67	Standard
|	Se	77	1895.8	3.7	20.6526	0.446	2.2	ug/L	107	Standard
|	Se	78	10374.1	3.8	21.0026	0.434	2.1	ug/L	4705	Standard
|	Br	79	243.3	9.5				ug/L	138	Standard
|	Se	82	3193.4	3.5	19.9379	0.280	1.4	ug/L	72	Standard
|	Kr	83	57.0	6.3				ug/L	63	Standard
|	Y	89	487164.4	2.0				ug/L	532199	Standard
|	Rh	103	424941.7	1.2				ug/L	467132	Standard
|	Cd	111	60798.1	1.1	20.2031	0.148	0.7	ug/L	298	Standard
|	Cd	114	153099.7	0.9	20.1948	0.111	0.6	ug/L	39	Standard
[>	In	115	421916.6	0.4				ug/L	453861	Standard
[>	Tb	159	548377.0	1.5				ug/L	578005	Standard
|	Ho	165	564513.2	1.4				ug/L	598603	Standard
|	Pb	208	802072.1	0.6	20.5062	0.193	0.9	ug/L	607	Standard
|	Bi	209	325643.7	0.1				ug/L	350942	Standard
|	Th	232	403813.1	1.4				ug/L	438613	Standard
|	Cr-1	52	17106.9	2.1	19.7046	0.155	0.8	ug/L	182	KED
|	Cr-1	53	2118.8	3.1	19.9929	0.631	3.2	ug/L	22	KED
[>	Ge-1	72	9049.9	2.0				ug/L	9326	KED
|	As-2	75	1075.0	2.1	20.0896	0.464	2.3	ug/L	2	KED
|	Y-1	89	16145.8	1.6				ug/L	16427	KED
|	Rh-1	103	92174.8	1.1				ug/L	95999	KED
|	Cd-1	111	4366.0	1.2	20.0795	0.547	2.7	ug/L	2	KED
|	Cd-1	114	11037.8	1.2	19.7737	0.680	3.4	ug/L	5	KED
[>	In-1	115	10488.2	2.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		93.519
|	Cr	52	101.463	
|	Cr	53	101.682	
[>	Ge	72		94.173
|	As	75	103.858	
|	As-1	75	102.511	
|	Se	77	103.263	
|	Se	78	105.013	
|	Br	79		
|	Se	82	99.689	
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111	101.015	

Sample ID: QC Std 7

Report Date/Time: Monday, September 05, 2022 08:08:41

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Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 15:53:08

Report Date/Time: Monday, September 05, 2022 08:08:43

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	380291.3	1.8				ug/L	404154	Standard
|	Cr	52	9012.2	2.5	0.0455	0.006	14.3	ug/L	9082	Standard
|	Cr	53	591.3	4.8	0.0342	0.022	64.6	ug/L	586	Standard
>	Ge	72	242296.1	2.7				ug/L	253733	Standard
|	As	75	3761.9	0.1	0.0709	0.082	115.0	ug/L	3853	Standard
|	As-1	75	-93.3	39.1	-0.0219	0.027	120.9	ug/L	-67	Standard
|	Se	77	95.0	1.8	-0.0810	0.031	37.7	ug/L	107	Standard
|	Se	78	4587.7	1.2	0.3361	0.273	81.2	ug/L	4705	Standard
|	Br	79	200.3	10.3				ug/L	138	Standard
|	Se	82	55.0	4.8	-0.0847	0.007	8.4	ug/L	72	Standard
|	Kr	83	55.7	12.6				ug/L	63	Standard
|	Y	89	497753.0	1.3				ug/L	532199	Standard
|	Rh	103	428337.6	1.7				ug/L	467132	Standard
|	Cd	111	278.7	2.7	0.0004	0.003	829.2	ug/L	298	Standard
|	Cd	114	56.9	15.6	0.0028	0.001	41.0	ug/L	39	Standard
>	In	115	422450.7	0.7				ug/L	453861	Standard
>	Tb	159	552102.6	0.6				ug/L	578005	Standard
|	Ho	165	565677.2	0.9				ug/L	598603	Standard
|	Pb	208	810.3	4.3	0.0059	0.001	13.7	ug/L	607	Standard
|	Bi	209	327525.5	0.8				ug/L	350942	Standard
|	Th	232	406064.3	0.5				ug/L	438613	Standard
|	Cr-1	52	150.0	8.1	-0.0335	0.011	33.1	ug/L	182	KED
|	Cr-1	53	22.3	11.3	0.0091	0.024	263.3	ug/L	22	KED
>	Ge-1	72	9198.6	1.7				ug/L	9326	KED
|	As-2	75	2.3	49.5	0.0068	0.022	317.6	ug/L	2	KED
|	Y-1	89	16367.7	0.6				ug/L	16427	KED
|	Rh-1	103	93548.3	0.2				ug/L	95999	KED
|	Cd-1	111	2.3	49.5	0.0013	0.005	382.0	ug/L	2	KED
|	Cd-1	114	4.0	24.8	-0.0015	0.002	111.4	ug/L	5	KED
>	In-1	115	10750.1	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		94.096
|	Cr	52		
|	Cr	53		
>	Ge	72		95.492
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	93.079
Tb	159	95.519
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.634
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	101.488

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cL 10X

Sample Date/Time: Thursday, September 01, 2022 15:57:48

Report Date/Time: Monday, September 05, 2022 08:08:46

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cL 10X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	360453.0	3.0				ug/L	404154	Standard
|	Cr	52	9933.1	3.5	0.1892	0.021	11.4	ug/L	9082	Standard
|	Cr	53	809.0	1.5	0.2597	0.032	12.5	ug/L	586	Standard
[>	Ge	72	212021.6	2.1				ug/L	253733	Standard
|	As	75	3994.8	0.4	0.7426	0.072	9.7	ug/L	3853	Standard
|	As-1	75	189.7	10.2	0.2170	0.019	8.6	ug/L	-67	Standard
|	Se	77	97.3	11.9	0.1028	0.150	146.1	ug/L	107	Standard
|	Se	78	4560.4	0.7	2.5096	0.264	10.5	ug/L	4705	Standard
|	Br	79	1529.1	2.4				ug/L	138	Standard
|	Se	82	67.0	6.5	0.0509	0.021	41.4	ug/L	72	Standard
|	Kr	83	58.7	11.1				ug/L	63	Standard
|	Y	89	438164.6	1.9				ug/L	532199	Standard
|	Rh	103	371139.4	1.9				ug/L	467132	Standard
|	Cd	111	227.7	7.4	-0.0065	0.005	79.9	ug/L	298	Standard
|	Cd	114	35.1	28.1	0.0005	0.001	288.8	ug/L	39	Standard
[>	In	115	372621.4	1.5				ug/L	453861	Standard
[>	Tb	159	482380.6	0.8				ug/L	578005	Standard
|	Ho	165	496166.7	0.3				ug/L	598603	Standard
|	Pb	208	1333.0	5.3	0.0240	0.002	8.1	ug/L	607	Standard
|	Bi	209	282061.0	0.3				ug/L	350942	Standard
|	Th	232	357883.6	0.8				ug/L	438613	Standard
|	Cr-1	52	248.3	1.4	0.1239	0.003	2.4	ug/L	182	KED
|	Cr-1	53	28.3	25.5	0.1068	0.077	72.4	ug/L	22	KED
[>	Ge-1	72	7948.9	0.5				ug/L	9326	KED
|	As-2	75	14.7	7.9	0.2763	0.026	9.5	ug/L	2	KED
|	Y-1	89	14093.9	0.6				ug/L	16427	KED
|	Rh-1	103	81093.2	0.9				ug/L	95999	KED
|	Cd-1	111	4.7	32.7	0.0150	0.008	50.8	ug/L	2	KED
|	Cd-1	114	3.4	108.5	-0.0016	0.008	481.4	ug/L	5	KED
[>	In-1	115	9300.8	1.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		89.187
|	Cr	52		
|	Cr	53		
[>	Ge	72		83.561
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05cL 10X

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Cd	114	
In	115	82.100
Tb	159	83.456
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	85.233
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	87.805

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cMS 2X

Sample Date/Time: Thursday, September 01, 2022 16:02:20

Report Date/Time: Monday, September 05, 2022 08:08:48

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMS 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	450453.9	1.9				ug/L	404154	Standard
|	Cr	52	511534.6	2.8	41.3917	0.382	0.9	ug/L	9082	Standard
|	Cr	53	58279.0	2.0	41.7152	0.068	0.2	ug/L	586	Standard
[>	Ge	72	238368.5	2.1				ug/L	253733	Standard
|	As	75	63382.5	1.7	50.8377	0.694	1.4	ug/L	3853	Standard
|	As-1	75	63503.8	2.3	49.8515	0.906	1.8	ug/L	-67	Standard
|	Se	77	4300.3	1.7	48.4449	0.678	1.4	ug/L	107	Standard
|	Se	78	18226.3	1.1	48.9294	0.676	1.4	ug/L	4705	Standard
|	Br	79	4950.9	1.6				ug/L	138	Standard
|	Se	82	7233.8	3.3	45.8274	1.352	3.0	ug/L	72	Standard
|	Kr	83	56.3	11.8				ug/L	63	Standard
|	Y	89	491130.7	2.5				ug/L	532199	Standard
|	Rh	103	411093.4	1.4				ug/L	467132	Standard
|	Cd	111	140091.5	0.5	48.2194	0.334	0.7	ug/L	298	Standard
|	Cd	114	355491.7	0.6	48.4484	0.298	0.6	ug/L	39	Standard
[>	In	115	408431.7	1.0				ug/L	453861	Standard
[>	Tb	159	539473.8	0.4				ug/L	578005	Standard
|	Ho	165	555020.5	0.6				ug/L	598603	Standard
|	Pb	208	1855727.0	0.4	48.2437	0.343	0.7	ug/L	607	Standard
|	Bi	209	307021.9	0.8				ug/L	350942	Standard
|	Th	232	399664.3	0.6				ug/L	438613	Standard
|	Cr-1	52	40488.3	0.5	49.1309	0.577	1.2	ug/L	182	KED
|	Cr-1	53	4975.2	2.2	49.4464	1.730	3.5	ug/L	22	KED
[>	Ge-1	72	8644.6	1.4				ug/L	9326	KED
|	As-2	75	2538.6	1.3	49.7203	1.329	2.7	ug/L	2	KED
|	Y-1	89	15742.3	0.5				ug/L	16427	KED
|	Rh-1	103	87326.8	1.0				ug/L	95999	KED
|	Cd-1	111	10110.2	0.7	46.7943	0.438	0.9	ug/L	2	KED
|	Cd-1	114	26241.4	1.1	47.3009	0.371	0.8	ug/L	5	KED
[>	In-1	115	10420.6	0.3				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		111.456
|	Cr	52		
|	Cr	53		
[>	Ge	72		93.944
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-238-05cMS 2X

Report Date/Time: Monday, September 05, 2022 08:08:48

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Cd	114	
In	115	89.990
Tb	159	93.334
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	92.693
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	98.376

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cMSD 2X

Sample Date/Time: Thursday, September 01, 2022 16:06:53

Report Date/Time: Monday, September 05, 2022 08:08:50

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cMSD 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	454869.6	1.5				ug/L	404154	Standard
|	Cr	52	526057.2	2.1	42.1712	0.476	1.1	ug/L	9082	Standard
|	Cr	53	60326.1	2.0	42.7732	0.500	1.2	ug/L	586	Standard
[>	Ge	72	236984.4	2.1				ug/L	253733	Standard
|	As	75	64395.6	1.9	52.0148	0.121	0.2	ug/L	3853	Standard
|	As-1	75	65064.2	2.2	51.3689	0.358	0.7	ug/L	-67	Standard
|	Se	77	4366.0	3.2	49.4858	0.872	1.8	ug/L	107	Standard
|	Se	78	18602.4	2.2	50.6487	1.521	3.0	ug/L	4705	Standard
|	Br	79	5609.4	1.5				ug/L	138	Standard
|	Se	82	7630.7	1.6	48.6510	0.293	0.6	ug/L	72	Standard
|	Kr	83	51.0	5.9				ug/L	63	Standard
|	Y	89	490174.5	1.7				ug/L	532199	Standard
[	Rh	103	408506.1	1.1				ug/L	467132	Standard
|	Cd	111	144362.9	0.7	49.5535	0.509	1.0	ug/L	298	Standard
|	Cd	114	365785.2	0.1	49.7120	0.173	0.3	ug/L	39	Standard
[>	In	115	409568.0	0.4				ug/L	453861	Standard
[>	Tb	159	543812.3	0.2				ug/L	578005	Standard
|	Ho	165	554450.1	0.2				ug/L	598603	Standard
|	Pb	208	1927648.5	0.2	49.7135	0.141	0.3	ug/L	607	Standard
|	Bi	209	307248.8	0.9				ug/L	350942	Standard
|	Th	232	398397.9	0.5				ug/L	438613	Standard
[	Cr-1	52	41553.0	0.4	50.0635	0.797	1.6	ug/L	182	KED
|	Cr-1	53	5127.6	0.5	50.5905	1.055	2.1	ug/L	22	KED
[>	Ge-1	72	8708.3	2.0				ug/L	9326	KED
|	As-2	75	2621.2	1.6	50.9579	0.622	1.2	ug/L	2	KED
|	Y-1	89	15941.2	0.7				ug/L	16427	KED
|	Rh-1	103	87684.3	0.7				ug/L	95999	KED
[	Cd-1	111	10428.1	1.5	48.7069	0.615	1.3	ug/L	2	KED
|	Cd-1	114	26976.6	0.9	49.0737	0.518	1.1	ug/L	5	KED
[>	In-1	115	10326.7	1.6				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		112.549
|	Cr	52		
|	Cr	53		
[>	Ge	72		93.399
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

Sample ID: 08-238-05cMSD 2X

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Cd	114	
In	115	90.241
Tb	159	94.084
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	93.376
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	97.490

Quantitative Analysis - Summary Report

Sample ID: 08-238-05cPS 2X

Sample Date/Time: Thursday, September 01, 2022 16:11:25

Report Date/Time: Monday, September 05, 2022 08:08:51

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-238-05cPS 2X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	447619.4	1.1				ug/L	404154	Standard
|	Cr	52	430019.4	2.8	34.8857	0.613	1.8	ug/L	9082	Standard
|	Cr	53	49455.8	1.6	35.5541	0.205	0.6	ug/L	586	Standard
>	Ge	72	238937.3	2.4				ug/L	253733	Standard
|	As	75	53797.9	2.3	42.5775	0.922	2.2	ug/L	3853	Standard
|	As-1	75	53243.0	2.6	41.7070	0.959	2.3	ug/L	-67	Standard
|	Se	77	3613.8	1.0	40.4307	0.590	1.5	ug/L	107	Standard
|	Se	78	16290.3	2.3	41.9234	0.072	0.2	ug/L	4705	Standard
|	Br	79	5099.6	3.7				ug/L	138	Standard
|	Se	82	6164.0	3.2	38.8873	0.598	1.5	ug/L	72	Standard
|	Kr	83	59.7	17.2				ug/L	63	Standard
|	Y	89	489753.0	1.2				ug/L	532199	Standard
|	Rh	103	410250.0	1.6				ug/L	467132	Standard
|	Cd	111	117025.3	0.8	40.1561	0.600	1.5	ug/L	298	Standard
|	Cd	114	296733.1	0.6	40.3294	0.335	0.8	ug/L	39	Standard
>	In	115	409548.6	0.8				ug/L	453861	Standard
>	Tb	159	539072.7	0.4				ug/L	578005	Standard
|	Ho	165	554070.5	0.3				ug/L	598603	Standard
|	Pb	208	1562008.4	0.6	40.6359	0.381	0.9	ug/L	607	Standard
|	Bi	209	309151.0	0.3				ug/L	350942	Standard
|	Th	232	399253.6	0.4				ug/L	438613	Standard
|	Cr-1	52	33593.1	1.3	40.5444	0.767	1.9	ug/L	182	KED
|	Cr-1	53	4095.9	1.3	40.4784	0.672	1.7	ug/L	22	KED
>	Ge-1	72	8684.3	1.7				ug/L	9326	KED
|	As-2	75	2141.5	3.4	41.7335	1.101	2.6	ug/L	2	KED
|	Y-1	89	15739.0	0.6				ug/L	16427	KED
|	Rh-1	103	87562.9	1.6				ug/L	95999	KED
|	Cd-1	111	8542.6	0.8	39.6995	0.656	1.7	ug/L	2	KED
|	Cd-1	114	21897.0	1.7	39.6279	0.534	1.3	ug/L	5	KED
>	In-1	115	10379.0	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		110.755
|	Cr	52		
|	Cr	53		
>	Ge	72		94.169
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-238-05cPS 2X

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	Cd	114	
>	In	115	90.237
>	Tb	159	93.264
-	Ho	165	
-	Pb	208	
-	Bi	209	
-	Th	232	
-	Cr-1	52	
-	Cr-1	53	
>	Ge-1	72	93.119
-	As-2	75	
-	Y-1	89	
-	Rh-1	103	
-	Cd-1	111	
-	Cd-1	114	
>	In-1	115	97.984

Quantitative Analysis - Summary Report

Sample ID: 08-268-01c 2X

Sample Date/Time: Thursday, September 01, 2022 16:15:59

Report Date/Time: Monday, September 05, 2022 08:08:53

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-01c 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	534919.4	2.8				ug/L	404154	Standard
|	Cr	52	65956.7	3.5	3.7491	0.036	1.0	ug/L	9082	Standard
|	Cr	53	10201.3	3.5	5.7452	0.048	0.8	ug/L	586	Standard
[>	Ge	72	266981.1	3.6				ug/L	253733	Standard
|	As	75	6416.0	2.5	1.7953	0.063	3.5	ug/L	3853	Standard
|	As-1	75	3147.9	4.3	2.2550	0.109	4.8	ug/L	-67	Standard
|	Se	77	405.7	14.7	3.0089	0.503	16.7	ug/L	107	Standard
|	Se	78	5460.0	3.8	1.6130	0.298	18.5	ug/L	4705	Standard
|	Br	79	141243.8	2.6				ug/L	138	Standard
|	Se	82	665.3	6.4	3.3693	0.236	7.0	ug/L	72	Standard
|	Kr	83	71.3	10.6				ug/L	63	Standard
|	Y	89	586847.7	2.4				ug/L	532199	Standard
[	Rh	103	450729.3	1.4				ug/L	467132	Standard
|	Cd	111	439.5	5.1	0.0513	0.007	13.1	ug/L	298	Standard
|	Cd	114	123.9	7.6	0.0113	0.001	11.2	ug/L	39	Standard
[>	In	115	430172.3	0.7				ug/L	453861	Standard
[>	Tb	159	590788.2	1.3				ug/L	578005	Standard
|	Ho	165	607115.3	1.3				ug/L	598603	Standard
|	Pb	208	7247.4	1.7	0.1574	0.002	1.0	ug/L	607	Standard
|	Bi	209	310201.1	0.4				ug/L	350942	Standard
|	Th	232	440363.0	1.4				ug/L	438613	Standard
[	Cr-1	52	3999.2	1.3	4.4443	0.014	0.3	ug/L	182	KED
|	Cr-1	53	500.0	1.4	4.5593	0.064	1.4	ug/L	22	KED
[>	Ge-1	72	9059.9	1.5				ug/L	9326	KED
|	As-2	75	77.0	3.4	1.4038	0.063	4.5	ug/L	2	KED
|	Y-1	89	17941.3	0.9				ug/L	16427	KED
|	Rh-1	103	92134.2	0.6				ug/L	95999	KED
[	Cd-1	111	4.3	53.3	0.0100	0.010	101.1	ug/L	2	KED
|	Cd-1	114	9.0	37.0	0.0071	0.006	82.7	ug/L	5	KED
[>	In-1	115	10943.0	1.1				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		132.355
|	Cr	52		
|	Cr	53		
[>	Ge	72		105.221
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-01c 2X

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Cd	114	
In	115	94.781
Tb	159	102.212
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	97.146
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	103.309

Quantitative Analysis - Summary Report

Sample ID: 08-268-02c 2X

Sample Date/Time: Thursday, September 01, 2022 16:20:31

Report Date/Time: Monday, September 05, 2022 08:08:56

Method File: C:\NexlONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220901B\08-268-02c 2X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	493316.5	2.5				ug/L	404154	Standard
|	Cr	52	27597.0	3.6	1.2443	0.023	1.9	ug/L	9082	Standard
|	Cr	53	5716.8	6.3	3.3039	0.148	4.5	ug/L	586	Standard
>	Ge	72	248598.0	2.6				ug/L	253733	Standard
|	As	75	8763.0	4.1	4.0670	0.145	3.6	ug/L	3853	Standard
|	As-1	75	5536.7	6.5	4.2104	0.178	4.2	ug/L	-67	Standard
|	Se	77	550.0	3.3	4.9226	0.055	1.1	ug/L	107	Standard
|	Se	78	5520.1	1.1	3.0985	0.293	9.5	ug/L	4705	Standard
|	Br	79	171574.7	2.8				ug/L	138	Standard
|	Se	82	708.0	3.4	3.9099	0.045	1.2	ug/L	72	Standard
|	Kr	83	89.0	3.0				ug/L	63	Standard
|	Y	89	528626.5	2.4				ug/L	532199	Standard
|	Rh	103	418795.5	2.6				ug/L	467132	Standard
|	Cd	111	348.2	10.6	0.0270	0.012	43.2	ug/L	298	Standard
|	Cd	114	11.5	108.6	-0.0032	0.002	53.2	ug/L	39	Standard
>	In	115	410084.3	0.9				ug/L	453861	Standard
>	Tb	159	558846.2	0.7				ug/L	578005	Standard
|	Ho	165	572699.1	0.6				ug/L	598603	Standard
|	Pb	208	7035.0	1.6	0.1619	0.004	2.3	ug/L	607	Standard
|	Bi	209	290074.8	0.1				ug/L	350942	Standard
|	Th	232	404088.8	0.5				ug/L	438613	Standard
|	Cr-1	52	1203.4	0.6	1.2329	0.007	0.6	ug/L	182	KED
|	Cr-1	53	160.3	13.7	1.3685	0.217	15.9	ug/L	22	KED
>	Ge-1	72	8814.1	1.1				ug/L	9326	KED
|	As-2	75	161.0	0.6	3.0581	0.029	0.9	ug/L	2	KED
|	Y-1	89	16650.7	0.5				ug/L	16427	KED
|	Rh-1	103	87799.0	1.1				ug/L	95999	KED
|	Cd-1	111	2.3	89.2	0.0016	0.010	614.4	ug/L	2	KED
|	Cd-1	114	4.2	50.4	-0.0010	0.004	366.8	ug/L	5	KED
>	In-1	115	10590.1	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		122.062
|	Cr	52		
|	Cr	53		
>	Ge	72		97.976
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-02c 2X

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Cd	114	
In	115	90.355
Tb	159	96.685
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	94.510
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	99.976

Quantitative Analysis - Summary Report

Sample ID: 08-268-03c 2X

Sample Date/Time: Thursday, September 01, 2022 16:25:03

Report Date/Time: Monday, September 05, 2022 08:08:59

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-03c 2X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	481590.8	2.3				ug/L	404154	Standard
|	Cr	52	20742.1	2.3	0.7662	0.027	3.5	ug/L	9082	Standard
[	Cr	53	2884.3	1.1	1.4805	0.023	1.6	ug/L	586	Standard
[>	Ge	72	254803.2	2.0				ug/L	253733	Standard
|	As	75	7157.1	2.8	2.6159	0.050	1.9	ug/L	3853	Standard
|	As-1	75	3140.7	3.2	2.3533	0.027	1.1	ug/L	-67	Standard
|	Se	77	174.3	3.2	0.7228	0.092	12.7	ug/L	107	Standard
|	Se	78	5231.6	3.7	1.6772	0.317	18.9	ug/L	4705	Standard
|	Br	79	44284.2	2.7				ug/L	138	Standard
[	Se	82	235.3	12.4	0.9756	0.149	15.2	ug/L	72	Standard
|	Kr	83	53.0	3.8				ug/L	63	Standard
|	Y	89	550145.3	1.4				ug/L	532199	Standard
[	Rh	103	439241.9	2.0				ug/L	467132	Standard
|	Cd	111	310.9	10.6	0.0100	0.011	112.6	ug/L	298	Standard
|	Cd	114	50.3	43.2	0.0018	0.003	155.4	ug/L	39	Standard
[>	In	115	427257.7	0.6				ug/L	453861	Standard
[>	Tb	159	570196.4	0.2				ug/L	578005	Standard
|	Ho	165	588274.2	0.9				ug/L	598603	Standard
|	Pb	208	3400.8	1.0	0.0689	0.001	1.4	ug/L	607	Standard
|	Bi	209	308153.5	0.8				ug/L	350942	Standard
[	Th	232	419986.0	1.1				ug/L	438613	Standard
[	Cr-1	52	863.4	1.9	0.7683	0.032	4.2	ug/L	182	KED
|	Cr-1	53	100.7	11.2	0.7296	0.114	15.6	ug/L	22	KED
[>	Ge-1	72	9344.1	1.5				ug/L	9326	KED
[	As-2	75	130.0	11.5	2.3192	0.252	10.9	ug/L	2	KED
|	Y-1	89	17301.8	1.4				ug/L	16427	KED
|	Rh-1	103	94028.1	0.9				ug/L	95999	KED
[	Cd-1	111	3.7	41.7	0.0067	0.007	98.3	ug/L	2	KED
|	Cd-1	114	2.8	18.9	-0.0038	0.001	23.9	ug/L	5	KED
[>	In-1	115	11187.7	0.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		119.160
	Cr	52		
[Cr	53		
[>	Ge	72		100.422
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
[Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

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Cd	114	
In	115	94.138
Tb	159	98.649
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.193
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.619

Quantitative Analysis - Summary Report

Sample ID: 08-268-04c 2X

Sample Date/Time: Thursday, September 01, 2022 16:29:34

Report Date/Time: Monday, September 05, 2022 08:09:00

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-04c 2X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	471096.2	3.3				ug/L	404154	Standard
|	Cr	52	24243.2	3.7	1.0780	0.029	2.7	ug/L	9082	Standard
|	Cr	53	6846.3	2.3	4.2677	0.101	2.4	ug/L	586	Standard
[>	Ge	72	256375.1	2.2				ug/L	253733	Standard
|	As	75	5317.5	4.0	1.1266	0.127	11.2	ug/L	3853	Standard
|	As-1	75	1726.3	6.1	1.3079	0.060	4.6	ug/L	-67	Standard
|	Se	77	325.3	4.9	2.3281	0.099	4.3	ug/L	107	Standard
|	Se	78	5356.3	3.3	1.9860	0.478	24.1	ug/L	4705	Standard
|	Br	79	103544.0	2.1				ug/L	138	Standard
|	Se	82	477.7	4.6	2.4092	0.107	4.5	ug/L	72	Standard
|	Kr	83	55.0	9.6				ug/L	63	Standard
|	Y	89	553444.4	1.1				ug/L	532199	Standard
|	Rh	103	442764.7	2.7				ug/L	467132	Standard
|	Cd	111	299.6	3.8	0.0071	0.005	67.1	ug/L	298	Standard
|	Cd	114	58.7	47.8	0.0030	0.004	122.3	ug/L	39	Standard
[>	In	115	423449.8	1.9				ug/L	453861	Standard
[>	Tb	159	571531.0	0.6				ug/L	578005	Standard
|	Ho	165	590529.6	0.2				ug/L	598603	Standard
|	Pb	208	3698.9	2.2	0.0761	0.002	3.2	ug/L	607	Standard
|	Bi	209	307018.1	0.7				ug/L	350942	Standard
|	Th	232	419715.4	0.1				ug/L	438613	Standard
|	Cr-1	52	1107.0	1.2	1.0596	0.025	2.3	ug/L	182	KED
|	Cr-1	53	135.7	5.2	1.0683	0.058	5.4	ug/L	22	KED
[>	Ge-1	72	9220.3	1.2				ug/L	9326	KED
|	As-2	75	46.0	14.3	0.8086	0.119	14.7	ug/L	2	KED
|	Y-1	89	17353.5	0.7				ug/L	16427	KED
|	Rh-1	103	92618.3	0.7				ug/L	95999	KED
|	Cd-1	111	1.7	91.7	-0.0020	0.007	329.9	ug/L	2	KED
|	Cd-1	114	11.6	19.0	0.0110	0.004	34.3	ug/L	5	KED
[>	In-1	115	11170.2	1.9				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		116.564
	Cr	52		
	Cr	53		
[>	Ge	72		101.041
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	93.299
Tb	159	98.880
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.866
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.454

Quantitative Analysis - Summary Report

Sample ID: 08-268-05c 2X

Sample Date/Time: Thursday, September 01, 2022 16:34:06

Report Date/Time: Monday, September 05, 2022 08:09:02

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-05c 2X.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	495226.3	1.7				ug/L	404154	Standard
|	Cr	52	37583.7	2.0	1.9865	0.013	0.7	ug/L	9082	Standard
|	Cr	53	5885.5	3.9	3.4016	0.089	2.6	ug/L	586	Standard
[>	Ge	72	261229.6	2.3				ug/L	253733	Standard
|	As	75	5273.4	1.4	1.0155	0.088	8.7	ug/L	3853	Standard
|	As-1	75	1368.6	3.2	1.0292	0.037	3.6	ug/L	-67	Standard
|	Se	77	201.0	8.0	0.9592	0.214	22.3	ug/L	107	Standard
|	Se	78	5139.3	1.4	0.9582	0.206	21.5	ug/L	4705	Standard
|	Br	79	47312.9	2.2				ug/L	138	Standard
|	Se	82	249.7	5.4	1.0256	0.044	4.3	ug/L	72	Standard
|	Kr	83	63.3	6.6				ug/L	63	Standard
|	Y	89	554337.7	1.3				ug/L	532199	Standard
|	Rh	103	441684.4	1.6				ug/L	467132	Standard
|	Cd	111	325.3	4.0	0.0147	0.004	26.5	ug/L	298	Standard
|	Cd	114	24.3	65.1	-0.0016	0.002	131.9	ug/L	39	Standard
[>	In	115	427036.8	0.4				ug/L	453861	Standard
[>	Tb	159	571720.3	1.0				ug/L	578005	Standard
|	Ho	165	581362.2	1.5				ug/L	598603	Standard
|	Pb	208	2227.4	3.1	0.0399	0.002	5.3	ug/L	607	Standard
|	Bi	209	309571.7	0.6				ug/L	350942	Standard
|	Th	232	421215.0	0.5				ug/L	438613	Standard
|	Cr-1	52	2153.5	1.5	2.2289	0.037	1.7	ug/L	182	KED
|	Cr-1	53	275.7	3.7	2.3506	0.086	3.7	ug/L	22	KED
[>	Ge-1	72	9318.7	0.9				ug/L	9326	KED
|	As-2	75	48.0	14.6	0.8360	0.125	14.9	ug/L	2	KED
|	Y-1	89	17601.2	1.3				ug/L	16427	KED
|	Rh-1	103	93192.0	1.1				ug/L	95999	KED
|	Cd-1	111	3.7	15.7	0.0068	0.003	38.7	ug/L	2	KED
|	Cd-1	114	1.4	135.5	-0.0061	0.003	53.7	ug/L	5	KED
[>	In-1	115	11140.8	0.9				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		122.534
	Cr	52		
	Cr	53		
[>	Ge	72		102.954
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	94.090
Tb	159	98.913
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.921
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.176

Quantitative Analysis - Summary Report

Sample ID: 08-268-06c 2X

Sample Date/Time: Thursday, September 01, 2022 16:38:38

Report Date/Time: Monday, September 05, 2022 08:09:04

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\08-268-06c 2X.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	495622.6	1.8				ug/L	404154	Standard
|	Cr	52	24970.8	3.0	1.0377	0.024	2.4	ug/L	9082	Standard
|	Cr	53	3172.0	4.1	1.6136	0.048	3.0	ug/L	586	Standard
[>	Ge	72	262413.9	2.6				ug/L	253733	Standard
|	As	75	6665.5	0.9	2.0733	0.112	5.4	ug/L	3853	Standard
|	As-1	75	2564.5	2.5	1.8766	0.036	1.9	ug/L	-67	Standard
|	Se	77	164.7	7.0	0.5652	0.095	16.9	ug/L	107	Standard
|	Se	78	5259.0	0.8	1.2708	0.299	23.5	ug/L	4705	Standard
|	Br	79	33870.8	2.2				ug/L	138	Standard
|	Se	82	207.7	10.7	0.7741	0.097	12.6	ug/L	72	Standard
|	Kr	83	54.0	20.6				ug/L	63	Standard
|	Y	89	566410.4	1.2				ug/L	532199	Standard
|	Rh	103	447151.5	1.5				ug/L	467132	Standard
|	Cd	111	350.1	4.9	0.0222	0.005	24.5	ug/L	298	Standard
|	Cd	114	40.7	49.1	0.0005	0.003	476.5	ug/L	39	Standard
[>	In	115	429756.9	0.5				ug/L	453861	Standard
[>	Tb	159	574882.8	1.2				ug/L	578005	Standard
|	Ho	165	590455.0	0.7				ug/L	598603	Standard
|	Pb	208	1947.4	1.2	0.0328	0.000	0.8	ug/L	607	Standard
|	Bi	209	314389.9	0.7				ug/L	350942	Standard
|	Th	232	422719.7	1.0				ug/L	438613	Standard
|	Cr-1	52	1235.1	1.1	1.1911	0.037	3.1	ug/L	182	KED
|	Cr-1	53	148.3	5.6	1.1724	0.079	6.7	ug/L	22	KED
[>	Ge-1	72	9319.4	1.6				ug/L	9326	KED
|	As-2	75	109.7	5.2	1.9583	0.132	6.7	ug/L	2	KED
|	Y-1	89	17904.5	1.4				ug/L	16427	KED
|	Rh-1	103	95091.1	1.3				ug/L	95999	KED
|	Cd-1	111	2.0	0.0	-0.0005	0.000	20.8	ug/L	2	KED
|	Cd-1	114	3.7	36.0	-0.0023	0.002	93.7	ug/L	5	KED
[>	In-1	115	11217.7	1.2				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		122.632
|	Cr	52		
|	Cr	53		
[>	Ge	72		103.421
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-06c 2X

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Cd	114	
In	115	94.689
Tb	159	99.460
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	99.928
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	105.902

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, September 01, 2022 16:43:09

Report Date/Time: Monday, September 05, 2022 08:09:06

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 6.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	373636.1	1.9				ug/L	404154	Standard
|	Cr	52	406431.7	3.0	39.6114	0.478	1.2	ug/L	9082	Standard
|	Cr	53	46075.2	2.8	39.7367	0.697	1.8	ug/L	586	Standard
[>	Ge	72	236601.0	3.0				ug/L	253733	Standard
|	As	75	51013.4	2.7	40.6477	1.126	2.8	ug/L	3853	Standard
|	As-1	75	50371.8	2.3	39.8588	1.034	2.6	ug/L	-67	Standard
|	Se	77	3536.1	0.2	39.9559	1.315	3.3	ug/L	107	Standard
|	Se	78	15806.1	2.9	40.7677	0.731	1.8	ug/L	4705	Standard
|	Br	79	2015.8	11.0				ug/L	138	Standard
|	Se	82	5933.9	1.2	37.8102	0.714	1.9	ug/L	72	Standard
|	Kr	83	49.7	8.1				ug/L	63	Standard
|	Y	89	476925.8	1.5				ug/L	532199	Standard
|	Rh	103	418336.6	2.3				ug/L	467132	Standard
|	Cd	111	119244.1	0.8	39.8287	0.309	0.8	ug/L	298	Standard
|	Cd	114	297818.3	0.5	39.4024	0.251	0.6	ug/L	39	Standard
[>	In	115	420707.1	0.4				ug/L	453861	Standard
[>	Tb	159	548431.1	0.5				ug/L	578005	Standard
|	Ho	165	556812.3	1.0				ug/L	598603	Standard
|	Pb	208	1560786.0	0.5	39.9113	0.383	1.0	ug/L	607	Standard
|	Bi	209	322725.0	0.6				ug/L	350942	Standard
|	Th	232	400048.4	0.4				ug/L	438613	Standard
|	Cr-1	52	33603.1	1.2	37.7294	1.175	3.1	ug/L	182	KED
|	Cr-1	53	4091.3	2.1	37.6019	0.553	1.5	ug/L	22	KED
[>	Ge-1	72	9333.7	1.9				ug/L	9326	KED
|	As-2	75	2194.5	1.1	39.8045	1.071	2.7	ug/L	2	KED
|	Y-1	89	16453.8	2.1				ug/L	16427	KED
|	Rh-1	103	93778.5	1.7				ug/L	95999	KED
|	Cd-1	111	8669.6	2.8	38.4434	0.964	2.5	ug/L	2	KED
|	Cd-1	114	22340.2	0.7	38.5866	0.682	1.8	ug/L	5	KED
[>	In-1	115	10876.3	1.5				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		92.449
|	Cr	52	99.028	
|	Cr	53	99.342	
[>	Ge	72		93.248
|	As	75	101.619	
	As-1	75	99.647	
	Se	77	99.890	
	Se	78	101.919	
	Br	79		
	Se	82	94.525	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.572	

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Cd	114	98.506	
In	115		92.695
Tb	159		94.883
Ho	165		
Pb	208	99.778	
Bi	209		
Th	232		
Cr-1	52	94.324	
Cr-1	53	94.005	
Ge-1	72		100.082
As-2	75	99.511	
Y-1	89		
Rh-1	103		
Cd-1	111	96.109	
Cd-1	114	96.466	
In-1	115		102.679

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, September 01, 2022 16:47:41

Report Date/Time: Monday, September 05, 2022 08:09:08

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 7.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	364294.3	1.7				ug/L	404154	Standard
|	Cr	52	209444.0	2.2	20.5438	0.117	0.6	ug/L	9082	Standard
|	Cr	53	23597.8	2.2	20.6491	0.144	0.7	ug/L	586	Standard
[>	Ge	72	234946.3	2.4				ug/L	253733	Standard
|	As	75	27349.6	3.7	20.5178	0.328	1.6	ug/L	3853	Standard
|	As-1	75	25088.0	3.3	20.0067	0.247	1.2	ug/L	-67	Standard
|	Se	77	1775.1	1.9	19.6179	0.499	2.5	ug/L	107	Standard
|	Se	78	10150.9	2.3	20.8313	0.053	0.3	ug/L	4705	Standard
|	Br	79	1017.7	6.7				ug/L	138	Standard
|	Se	82	2970.3	2.4	18.8472	0.675	3.6	ug/L	72	Standard
|	Kr	83	49.0	11.4				ug/L	63	Standard
|	Y	89	471307.2	1.3				ug/L	532199	Standard
|	Rh	103	409097.4	0.7				ug/L	467132	Standard
|	Cd	111	59810.6	0.3	20.1866	0.143	0.7	ug/L	298	Standard
|	Cd	114	150914.0	0.6	20.2189	0.209	1.0	ug/L	39	Standard
[>	In	115	415415.8	0.5				ug/L	453861	Standard
[>	Tb	159	537916.7	0.9				ug/L	578005	Standard
|	Ho	165	549778.8	1.5				ug/L	598603	Standard
|	Pb	208	781147.6	0.1	20.3587	0.194	1.0	ug/L	607	Standard
|	Bi	209	318871.2	0.5				ug/L	350942	Standard
|	Th	232	395335.7	0.7				ug/L	438613	Standard
|	Cr-1	52	17126.3	0.4	19.2262	0.224	1.2	ug/L	182	KED
|	Cr-1	53	2093.5	1.8	19.2463	0.342	1.8	ug/L	22	KED
[>	Ge-1	72	9284.0	1.2				ug/L	9326	KED
|	As-2	75	1109.4	2.8	20.2095	0.720	3.6	ug/L	2	KED
|	Y-1	89	16514.2	0.9				ug/L	16427	KED
|	Rh-1	103	91535.0	1.5				ug/L	95999	KED
|	Cd-1	111	4424.4	0.3	19.8742	0.338	1.7	ug/L	2	KED
|	Cd-1	114	11163.4	0.4	19.5296	0.293	1.5	ug/L	5	KED
[>	In-1	115	10736.0	1.7				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		90.138
|	Cr	52	102.719	
|	Cr	53	103.246	
[>	Ge	72		92.596
|	As	75	102.589	
|	As-1	75	100.034	
|	Se	77	98.089	
	Se	78	104.156	
	Br	79		
	Se	82	94.236	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.933	

Sample ID: QC Std 7

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Cd	114	101.094	
In	115		91.529
Tb	159		93.064
Ho	165		
Pb	208	101.794	
Bi	209		
Th	232		
Cr-1	52	96.131	
Cr-1	53	96.231	
Ge-1	72		99.549
As-2	75	101.048	
Y-1	89		
Rh-1	103		
Cd-1	111	99.371	
Cd-1	114	97.648	
In-1	115		101.354

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, September 01, 2022 16:52:14

Report Date/Time: Monday, September 05, 2022 08:09:10

Method File: C:\NexIONData_kmckinney\Method\X220901B2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220901B\QC Std 8.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	367791.2	1.4				ug/L	404154	Standard
|	Cr	52	8858.4	1.7	0.0601	0.019	31.1	ug/L	9082	Standard
|	Cr	53	666.0	7.1	0.1176	0.040	34.0	ug/L	586	Standard
[>	Ge	72	235698.9	3.0				ug/L	263733	Standard
|	As	75	3743.6	2.6	0.1425	0.065	45.5	ug/L	3853	Standard
|	As-1	75	-77.9	52.8	-0.0117	0.031	263.7	ug/L	-67	Standard
|	Se	77	98.7	13.8	-0.0097	0.143	1476.5	ug/L	107	Standard
|	Se	78	4579.4	3.2	0.7505	0.349	46.5	ug/L	4705	Standard
|	Br	79	767.4	2.3				ug/L	138	Standard
|	Se	82	67.0	7.5	0.0035	0.043	1214.1	ug/L	72	Standard
|	Kr	83	48.3	11.4				ug/L	63	Standard
|	Y	89	477276.3	1.8				ug/L	532199	Standard
|	Rh	103	411641.4	2.3				ug/L	467132	Standard
|	Cd	111	289.8	1.6	0.0049	0.002	42.9	ug/L	298	Standard
|	Cd	114	65.1	16.9	0.0039	0.001	36.1	ug/L	39	Standard
[>	In	115	418708.6	0.6				ug/L	453861	Standard
[>	Tb	159	542352.7	1.2				ug/L	578005	Standard
|	Ho	165	549162.3	0.4				ug/L	598603	Standard
|	Pb	208	824.7	4.4	0.0066	0.001	10.7	ug/L	607	Standard
|	Bi	209	320271.7	0.4				ug/L	350942	Standard
|	Th	232	395943.0	0.3				ug/L	438613	Standard
|	Cr-1	52	170.0	6.8	-0.0141	0.012	86.8	ug/L	182	KED
|	Cr-1	53	23.3	12.4	0.0142	0.024	168.2	ug/L	22	KED
[>	Ge-1	72	9371.1	1.8				ug/L	9326	KED
|	As-2	75	3.0	33.3	0.0180	0.019	103.7	ug/L	2	KED
|	Y-1	89	16580.6	0.4				ug/L	16427	KED
|	Rh-1	103	93806.3	1.1				ug/L	95999	KED
|	Cd-1	111	2.7	21.7	0.0028	0.003	93.1	ug/L	2	KED
|	Cd-1	114	5.3	57.4	0.0007	0.005	771.5	ug/L	5	KED
[>	In-1	115	10833.8	0.8				ug/L	10593	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		91.003
|	Cr	52		
|	Cr	53		
[>	Ge	72		92.892
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: QC Std 8

Report Date/Time: Monday, September 05, 2022 08:09:10

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Cd	114	
In	115	92.255
Tb	159	93.832
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	100.483
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	102.278

Dataset Report

9.5.22
KPR

User Name: kmckinney
 Computer Name: ICPMS
 Dataset File Path: C:\NexIONData_kmckinney\DataSet\X220902A\
 Report Date/Time: Monday, September 05, 2022 08:15:47

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - T	Torch Alignment	06:01:18 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Torch Alignment.001	
SmartTune - N	Nebulizer Gas Flow S	06:04:14 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Nebulizer Gas Flow STD-KF	
SmartTune - A	AutoLens STD/DRC	06:06:52 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\AutoLens STD-DRC.003	
SmartTune - K	KED Mode AutoLens	06:11:22 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\KED Mode AutoLens.004	
SmartTune - C	Daily Performance Ch	06:15:58 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Daily Performance Check.01	
SmartTune - M	Mass Calibration and f	06:19:00 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - M	Mass Calibration and f	06:21:11 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - M	Mass Calibration and f	06:23:22 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - M	Mass Calibration and f	06:25:33 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
SmartTune - M	Mass Calibration and f	06:27:44 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Mass Calibration and Resol	
	Sample	06:38:42 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.011	
	Sample	06:43:18 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.012	
	Sample	06:47:53 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.013	
	Sample	06:52:29 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\Sample.014	
	Blank	07:01:04 Fri 02-Se	Blank	C:\NexIONData_kmckinney\DataSet\X220902A\Blank.015	
	Standard 2	07:04:50 Fri 02-Se	Standard #2	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 2.016	
	Standard 3	07:08:36 Fri 02-Se	Standard #3	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 3.017	
	Standard 4	07:12:21 Fri 02-Se	Standard #4	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 4.018	
	Standard 5	07:16:07 Fri 02-Se	Standard #5	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 5.019	
	Standard 6	07:19:52 Fri 02-Se	Standard #6	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 6.020	
	Standard 7	07:23:38 Fri 02-Se	Standard #7	C:\NexIONData_kmckinney\DataSet\X220902A\Standard 7.021	
	QC Std 1	07:28:13 Fri 02-Se	QC Std #1	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 1.022	
	QC Std 2	07:32:49 Fri 02-Se	QC Std #2	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 2.023	
	QC Std 6	07:36:33 Fri 02-Se	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.024	
	QC Std 7	07:41:08 Fri 02-Se	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.025	
	QC Std 8	07:45:43 Fri 02-Se	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.026	
	08-268-07c 2X	07:49:28 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-07c 2X.027	
	08-268-08c 2X	07:54:03 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-08c 2X.028	
	08-268-09c 2X	07:58:38 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-09c 2X.029	
	08-268-01d 2X FFD	08:03:13 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-01d 2X FFD.030	
	08-268-02d 5X	08:17:05 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-02d 5X.031	
	08-268-03d 5X	08:21:40 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-268-03d 5X.032	
	QC Std 6	08:26:16 Fri 02-Se	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.033	
	QC Std 7	08:30:51 Fri 02-Se	QC Std #7	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.034	
	QC Std 8	08:35:27 Fri 02-Se	QC Std #8	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.035	
	MB0826F1 2X	08:40:20 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\MB0826F1 2X.036	
	SB0826F1 2X	08:44:55 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\SB0826F1 2X.037	
	08-291-16e 2X F	08:49:29 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16e 2X F.038	
	08-291-18e 2X F	08:54:03 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-18e 2X F.039	
	08-291-16eD 2X	09:00:13 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eD 2X.040	
	08-291-16eL 10X	09:04:47 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eL 10X.041	
	08-291-16eMS 2X	09:09:21 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMS 2X.042	
	08-291-16eMSD 2X	09:13:56 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMSD 2X.043	
	QC Std 6	09:18:32 Fri 02-Se	QC Std #6	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.044	
	QC Std 7	09:30:04 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.046	
	QC Std 8	09:34:38 Fri 02-Se	Sample	C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.047	

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, September 02, 2022 07:01:04

Report Date/Time: Monday, September 05, 2022 08:12:55

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Blank.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	258378.5	2.9				ug/L		Standard
|	Cr	52	6655.6	2.6				ug/L		Standard
|	Cr	53	322.7	7.3				ug/L		Standard
>	Ge	72	174253.9	2.0				ug/L		Standard
|	As	75	2655.3	3.3				ug/L		Standard
|	As-1	75	-17.6	187.0				ug/L		Standard
|	Se	77	52.0	6.9				ug/L		Standard
|	Se	78	3219.4	2.4				ug/L		Standard
|	Br	79	182.0	12.0				ug/L		Standard
|	Se	82	53.3	11.5				ug/L		Standard
|	Kr	83	52.7	5.8				ug/L		Standard
|	Y	89	364379.4	0.8				ug/L		Standard
|	Rh	103	309794.8	2.3				ug/L		Standard
|	Cd	111	234.5	4.2				ug/L		Standard
|	Cd	114	54.1	12.4				ug/L		Standard
>	In	115	412289.9	0.9				ug/L		Standard
>	Tb	159	555028.2	0.3				ug/L		Standard
|	Ho	165	564489.6	0.2				ug/L		Standard
|	Pb	208	947.3	2.4				ug/L		Standard
|	Bi	209	326404.9	0.6				ug/L		Standard
|	Th	232	411068.3	0.1				ug/L		Standard
|	Cr-1	52	154.0	3.0				ug/L		KED
|	Cr-1	53	16.0	21.7				ug/L		KED
>	Ge-1	72	7876.5	2.1				ug/L		KED
|	As-2	75	2.7	21.7				ug/L		KED
|	Y-1	89	12480.4	0.7				ug/L		KED
|	Rh-1	103	78958.3	0.7				ug/L		KED
|	Cd-1	111	3.0	66.7				ug/L		KED
|	Cd-1	114	5.6	38.1				ug/L		KED
>	In-1	115	7380.3	0.5				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Blank

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, September 02, 2022 07:04:50

Report Date/Time: Monday, September 05, 2022 08:12:57

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 2.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	267472.0	1.9				ug/L	258379	Standard
|	Cr	52	10625.6	2.8	0.5000	0.014	2.9	ug/L	6656	Standard
|	Cr	53	793.7	2.3	0.5000	0.033	6.7	ug/L	323	Standard
>	Ge	72	181781.7	2.4				ug/L	174254	Standard
|	As	75	3029.8	4.8	0.5000	0.147	29.4	ug/L	2655	Standard
|	As-1	75	454.9	10.3	0.5000	0.044	8.8	ug/L	-18	Standard
|	Se	77	86.0	14.3	0.5000	0.164	32.8	ug/L	52	Standard
|	Se	78	3230.7	4.8				ug/L	3219	Standard
|	Br	79	175.0	6.0				ug/L	182	Standard
|	Se	82	102.3	15.0	0.5000	0.156	31.1	ug/L	53	Standard
|	Kr	83	54.3	16.7				ug/L	53	Standard
|	Y	89	380312.2	1.8				ug/L	364379	Standard
|	Rh	103	324412.1	2.8				ug/L	309795	Standard
|	Cd	111	1834.6	1.5	0.5000	0.008	1.7	ug/L	234	Standard
|	Cd	114	4117.2	1.9	0.5000	0.010	2.0	ug/L	54	Standard
>	In	115	431707.5	1.1				ug/L	412290	Standard
>	Tb	159	580108.0	0.7				ug/L	555028	Standard
|	Ho	165	593081.1	0.7				ug/L	564490	Standard
|	Pb	208	21316.9	0.5	0.5000	0.004	0.9	ug/L	947	Standard
|	Bi	209	339159.5	0.2				ug/L	326405	Standard
|	Th	232	433419.3	0.2				ug/L	411068	Standard
|	Cr-1	52	564.3	0.5	0.5000	0.008	1.6	ug/L	154	KED
|	Cr-1	53	72.0	16.8	0.5000	0.115	23.0	ug/L	16	KED
>	Ge-1	72	7963.2	0.9				ug/L	7877	KED
|	As-2	75	26.3	21.9	0.5000	0.120	24.1	ug/L	3	KED
|	Y-1	89	12653.9	2.2				ug/L	12480	KED
|	Rh-1	103	82296.0	0.8				ug/L	78958	KED
|	Cd-1	111	86.3	7.7	0.5000	0.031	6.2	ug/L	3	KED
|	Cd-1	114	234.6	14.6	0.5000	0.085	17.1	ug/L	6	KED
>	In-1	115	7489.0	2.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
	Cr	52		
	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, September 02, 2022 07:08:36

Report Date/Time: Monday, September 05, 2022 08:12:59

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 3.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	275551.7	1.2				ug/L	258379	Standard
|	Cr	52	23891.6	1.9	2.0099	0.024	1.2	ug/L	6656	Standard
|	Cr	53	2347.9	3.3	2.0063	0.055	2.8	ug/L	323	Standard
>	Ge	72	186785.3	1.3				ug/L	174254	Standard
|	As	75	4481.7	1.8	2.0420	0.040	2.0	ug/L	2655	Standard
|	As-1	75	1948.9	1.0	2.0014	0.032	1.6	ug/L	-18	Standard
|	Se	77	197.7	3.8	2.0100	0.124	6.2	ug/L	52	Standard
|	Se	78	3628.1	2.0	2.0000	0.574	28.7	ug/L	3219	Standard
|	Br	79	172.3	10.8				ug/L	182	Standard
|	Se	82	278.0	5.3	2.0157	0.167	8.3	ug/L	53	Standard
|	Kr	83	48.0	43.8				ug/L	53	Standard
|	Y	89	388932.2	2.4				ug/L	364379	Standard
|	Rh	103	336574.5	2.9				ug/L	309795	Standard
|	Cd	111	7082.4	0.9	2.0054	0.010	0.5	ug/L	234	Standard
|	Cd	114	17073.7	2.1	2.0025	0.026	1.3	ug/L	54	Standard
>	In	115	442784.9	1.3				ug/L	412290	Standard
>	Tb	159	596907.8	0.5				ug/L	555028	Standard
|	Ho	165	609631.9	0.8				ug/L	564490	Standard
|	Pb	208	89817.4	0.5	2.0068	0.016	0.8	ug/L	947	Standard
|	Bi	209	346637.8	0.4				ug/L	326405	Standard
|	Th	232	440268.7	0.9				ug/L	411068	Standard
|	Cr-1	52	1817.1	1.5	1.9998	0.016	0.8	ug/L	154	KED
|	Cr-1	53	233.3	2.2	1.9944	0.047	2.4	ug/L	16	KED
>	Ge-1	72	8091.6	1.3				ug/L	7877	KED
|	As-2	75	93.3	3.4	1.9930	0.097	4.9	ug/L	3	KED
|	Y-1	89	12931.9	2.1				ug/L	12480	KED
|	Rh-1	103	83717.6	1.1				ug/L	78958	KED
|	Cd-1	111	381.7	4.3	2.0111	0.115	5.7	ug/L	3	KED
|	Cd-1	114	946.5	1.6	1.9994	0.047	2.4	ug/L	6	KED
>	In-1	115	7721.6	2.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: Standard 3

Report Date/Time: Monday, September 05, 2022 08:12:59

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, September 02, 2022 07:12:21
 Report Date/Time: Monday, September 05, 2022 08:13:01
 Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth
 Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 4.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	282545.6	1.7				ug/L	258379	Standard
|	Cr	52	51417.4	1.4	5.0216	0.043	0.9	ug/L	6656	Standard
|	Cr	53	5490.4	1.1	5.0026	0.039	0.8	ug/L	323	Standard
>	Ge	72	191374.4	2.2				ug/L	174254	Standard
|	As	75	7685.9	2.6	5.1039	0.202	4.0	ug/L	2655	Standard
|	As-1	75	5394.3	2.3	5.0512	0.132	2.6	ug/L	-18	Standard
|	Se	77	398.7	5.0	4.9569	0.164	3.3	ug/L	52	Standard
|	Se	78	4300.3	2.4	5.2973	0.665	12.6	ug/L	3219	Standard
|	Br	79	172.0	11.2				ug/L	182	Standard
|	Se	82	652.3	1.5	5.0399	0.161	3.2	ug/L	53	Standard
|	Kr	83	43.7	25.2				ug/L	53	Standard
|	Y	89	402361.4	1.1				ug/L	364379	Standard
|	Rh	103	346316.0	1.5				ug/L	309795	Standard
|	Cd	111	18058.8	0.6	5.0170	0.036	0.7	ug/L	234	Standard
|	Cd	114	45248.0	1.1	5.0294	0.057	1.1	ug/L	54	Standard
>	In	115	451994.8	0.1				ug/L	412290	Standard
>	Tb	159	605077.6	0.5				ug/L	555028	Standard
|	Ho	165	621814.5	0.5				ug/L	564490	Standard
|	Pb	208	231770.5	0.2	5.0205	0.036	0.7	ug/L	947	Standard
|	Bi	209	352477.4	0.2				ug/L	326405	Standard
|	Th	232	453330.9	0.4				ug/L	411068	Standard
|	Cr-1	52	4656.8	1.2	5.0320	0.113	2.2	ug/L	154	KED
|	Cr-1	53	562.3	2.8	4.9760	0.102	2.0	ug/L	16	KED
>	Ge-1	72	8382.8	1.1				ug/L	7877	KED
|	As-2	75	262.7	3.9	5.0689	0.217	4.3	ug/L	3	KED
|	Y-1	89	13316.5	1.1				ug/L	12480	KED
|	Rh-1	103	85983.7	1.4				ug/L	78958	KED
|	Cd-1	111	948.4	0.6	4.9785	0.134	2.7	ug/L	3	KED
|	Cd-1	114	2436.8	2.7	4.9997	0.181	3.6	ug/L	6	KED
>	In-1	115	7982.7	2.1				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, September 02, 2022 07:16:07

Report Date/Time: Monday, September 05, 2022 08:13:03

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 5.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	261457.8	1.9				ug/L	258379	Standard
|	Cr	52	161015.8	1.4	19.9262	0.220	1.1	ug/L	6656	Standard
|	Cr	53	18160.2	2.9	19.9105	0.218	1.1	ug/L	323	Standard
>	Ge	72	176568.0	1.5				ug/L	174254	Standard
|	As	75	20664.7	3.0	20.0549	0.331	1.7	ug/L	2655	Standard
|	As-1	75	19248.3	3.8	19.9633	0.451	2.3	ug/L	-18	Standard
|	Se	77	1359.4	2.7	20.0373	0.307	1.5	ug/L	52	Standard
|	Se	78	7258.5	2.2	20.4605	0.286	1.4	ug/L	3219	Standard
|	Br	79	175.3	5.3				ug/L	182	Standard
|	Se	82	2215.2	5.0	19.9909	0.723	3.6	ug/L	53	Standard
|	Kr	83	55.0	20.2				ug/L	53	Standard
|	Y	89	365447.7	2.4				ug/L	364379	Standard
|	Rh	103	310861.1	2.5				ug/L	309795	Standard
|	Cd	111	63266.2	0.6	19.9571	0.060	0.3	ug/L	234	Standard
|	Cd	114	158304.2	0.6	19.9451	0.063	0.3	ug/L	54	Standard
>	In	115	414114.0	0.3				ug/L	412290	Standard
>	Tb	159	559683.5	0.6				ug/L	555028	Standard
|	Ho	165	573455.0	0.7				ug/L	564490	Standard
|	Pb	208	819711.4	0.3	19.9477	0.138	0.7	ug/L	947	Standard
|	Bi	209	328585.0	0.5				ug/L	326405	Standard
|	Th	232	417232.0	0.5				ug/L	411068	Standard
|	Cr-1	52	15420.3	0.1	19.8837	0.534	2.7	ug/L	154	KED
|	Cr-1	53	1905.8	4.0	19.8954	0.298	1.5	ug/L	16	KED
>	Ge-1	72	7785.1	2.6				ug/L	7877	KED
|	As-2	75	962.4	3.1	20.0112	0.762	3.8	ug/L	3	KED
|	Y-1	89	12318.0	1.7				ug/L	12480	KED
|	Rh-1	103	78467.6	1.7				ug/L	78958	KED
|	Cd-1	111	3414.1	1.7	19.9489	0.208	1.0	ug/L	3	KED
|	Cd-1	114	8805.3	1.7	19.9592	0.173	0.9	ug/L	6	KED
>	In-1	115	7438.7	1.3				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: Standard 5

Report Date/Time: Monday, September 05, 2022 08:13:03

|	Cd	114
[>	In	115
[>	Tb	159
|	Ho	165
|	Pb	208
|	Bi	209
|	Th	232
|	Cr-1	52
|	Cr-1	53
[>	Ge-1	72
|	As-2	75
|	Y-1	89
|	Rh-1	103
|	Cd-1	111
|	Cd-1	114
[>	In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, September 02, 2022 07:19:52

Report Date/Time: Monday, September 05, 2022 08:13:05

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 6.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	263405.6	1.5				ug/L	258379	Standard
|	Cr	52	319983.1	0.8	40.0321	0.443	1.1	ug/L	6656	Standard
|	Cr	53	36248.3	1.8	39.9599	0.421	1.1	ug/L	323	Standard
>	Ge	72	178200.3	2.4				ug/L	174254	Standard
|	As	75	38985.4	2.1	40.0225	0.157	0.4	ug/L	2655	Standard
|	As-1	75	38712.2	2.1	39.9522	0.166	0.4	ug/L	-18	Standard
|	Se	77	2588.9	1.0	39.6822	0.739	1.9	ug/L	52	Standard
|	Se	78	11585.7	1.1	40.4240	0.791	2.0	ug/L	3219	Standard
|	Br	79	189.7	5.3				ug/L	182	Standard
|	Se	82	4439.0	1.0	40.0441	0.648	1.6	ug/L	53	Standard
|	Kr	83	45.0	21.2				ug/L	53	Standard
|	Y	89	373400.4	1.8				ug/L	364379	Standard
|	Rh	103	317411.9	1.3				ug/L	309795	Standard
|	Cd	111	127688.9	0.6	39.9779	0.236	0.6	ug/L	234	Standard
|	Cd	114	319265.0	0.5	39.9521	0.226	0.6	ug/L	54	Standard
>	In	115	418876.3	0.2				ug/L	412290	Standard
>	Tb	159	568446.7	0.1				ug/L	555028	Standard
|	Ho	165	582998.9	0.7				ug/L	564490	Standard
|	Pb	208	1659890.8	0.1	39.9561	0.088	0.2	ug/L	947	Standard
|	Bi	209	331784.6	1.1				ug/L	326405	Standard
|	Th	232	423461.4	0.8				ug/L	411068	Standard
|	Cr-1	52	31036.3	0.2	39.9199	0.677	1.7	ug/L	154	KED
|	Cr-1	53	3833.5	0.5	39.9195	0.835	2.1	ug/L	16	KED
>	Ge-1	72	7899.5	1.6				ug/L	7877	KED
|	As-2	75	1914.1	1.5	39.8443	1.148	2.9	ug/L	3	KED
|	Y-1	89	12604.6	2.1				ug/L	12480	KED
|	Rh-1	103	79622.6	0.5				ug/L	78958	KED
|	Cd-1	111	6833.6	1.7	40.0626	0.512	1.3	ug/L	3	KED
|	Cd-1	114	17926.7	0.5	40.2090	0.370	0.9	ug/L	6	KED
>	In-1	115	7374.0	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		
|	Cr	52		
|	Cr	53		
>	Ge	72		
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: Standard 6

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, September 02, 2022 07:23:38

Report Date/Time: Monday, September 05, 2022 08:13:07

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\Standard 7.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	269428.5	0.9				ug/L	258379	Standard
|	Cr	52	796423.3	0.6	99.7693	0.754	0.8	ug/L	6656	Standard
|	Cr	53	91717.9	1.5	99.8974	1.849	1.9	ug/L	323	Standard
[>	Ge	72	184090.4	1.5				ug/L	174254	Standard
|	As	75	94471.2	1.4	99.6419	1.153	1.2	ug/L	2655	Standard
|	As-1	75	98578.6	1.4	99.7355	0.695	0.7	ug/L	-18	Standard
|	Se	77	6539.8	2.9	99.6925	2.036	2.0	ug/L	52	Standard
|	Se	78	24573.8	2.4	99.9787	2.442	2.4	ug/L	3219	Standard
|	Br	79	185.0	5.2				ug/L	182	Standard
|	Se	82	11545.3	1.9	100.2574	0.548	0.5	ug/L	53	Standard
|	Kr	83	49.7	23.2				ug/L	53	Standard
|	Y	89	388758.1	1.1				ug/L	364379	Standard
|	Rh	103	332059.6	0.5				ug/L	309795	Standard
|	Cd	111	322397.1	0.9	99.5474	0.795	0.8	ug/L	234	Standard
|	Cd	114	812814.8	0.5	99.6618	0.959	1.0	ug/L	54	Standard
[>	In	115	434684.2	0.5				ug/L	412290	Standard
[>	Tb	159	590185.7	0.6				ug/L	555028	Standard
|	Ho	165	603055.7	0.5				ug/L	564490	Standard
|	Pb	208	4038313.6	0.4	98.8713	0.918	0.9	ug/L	947	Standard
|	Bi	209	340842.2	0.5				ug/L	326405	Standard
|	Th	232	441078.5	0.5				ug/L	411068	Standard
|	Cr-1	52	78606.0	0.4	99.8849	1.252	1.3	ug/L	154	KED
|	Cr-1	53	9589.2	1.3	99.6650	2.157	2.2	ug/L	16	KED
[>	Ge-1	72	8064.6	1.0				ug/L	7877	KED
|	As-2	75	4834.5	2.6	99.7647	1.853	1.9	ug/L	3	KED
|	Y-1	89	12893.1	0.6				ug/L	12480	KED
|	Rh-1	103	81758.6	0.3				ug/L	78958	KED
|	Cd-1	111	17418.9	0.8	99.6226	0.466	0.5	ug/L	3	KED
|	Cd-1	114	45290.9	0.6	99.5313	1.131	1.1	ug/L	6	KED
[>	In-1	115	7701.6	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		
|	Cr	52		
|	Cr	53		
[>	Ge	72		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
	Cd	111		

Sample ID: Standard 7

Report Date/Time: Monday, September 05, 2022 08:13:07

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Cd	114
In	115
Tb	159
Ho	165
Pb	208
Bi	209
Th	232
Cr-1	52
Cr-1	53
Ge-1	72
As-2	75
Y-1	89
Rh-1	103
Cd-1	111
Cd-1	114
In-1	115

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, September 02, 2022 07:28:13

Report Date/Time: Monday, September 05, 2022 08:13:09

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 1.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	269809.5	2.2				ug/L	258379	Standard
|	Cr	52	409278.2	1.5	50.7755	0.443	0.9	ug/L	6656	Standard
|	Cr	53	46834.0	1.4	50.7615	0.466	0.9	ug/L	323	Standard
[>	Ge	72	184136.1	2.1				ug/L	174254	Standard
|	As	75	50425.0	1.3	51.7531	0.470	0.9	ug/L	2655	Standard
|	As-1	75	50974.8	1.8	51.5700	0.263	0.5	ug/L	-18	Standard
|	Se	77	3460.4	1.1	52.3590	1.318	2.5	ug/L	52	Standard
|	Se	78	14324.8	2.8	51.5581	0.643	1.2	ug/L	3219	Standard
|	Br	79	204.3	10.3				ug/L	182	Standard
|	Se	82	5891.9	4.7	50.8948	1.386	2.7	ug/L	53	Standard
|	Kr	83	41.0	23.5				ug/L	53	Standard
|	Y	89	388344.4	2.1				ug/L	364379	Standard
|	Rh	103	328311.6	2.2				ug/L	309795	Standard
|	Cd	111	165529.9	0.6	51.3256	0.717	1.4	ug/L	234	Standard
|	Cd	114	416282.4	0.4	51.2858	0.319	0.6	ug/L	54	Standard
[>	In	115	432586.2	0.9				ug/L	412290	Standard
[>	Tb	159	586045.3	1.1				ug/L	555028	Standard
|	Ho	165	599443.0	0.5				ug/L	564490	Standard
|	Pb	208	2145961.8	0.2	52.9018	0.505	1.0	ug/L	947	Standard
|	Bi	209	338532.5	1.1				ug/L	326405	Standard
|	Th	232	431580.5	0.3				ug/L	411068	Standard
|	Cr-1	52	40123.9	0.6	50.9211	0.968	1.9	ug/L	154	KED
|	Cr-1	53	4869.2	0.6	50.5528	0.848	1.7	ug/L	16	KED
[>	Ge-1	72	8059.9	1.3				ug/L	7877	KED
|	As-2	75	2522.9	1.7	52.0828	1.545	3.0	ug/L	3	KED
|	Y-1	89	12881.5	1.5				ug/L	12480	KED
|	Rh-1	103	82405.7	1.1				ug/L	78958	KED
|	Cd-1	111	9106.2	1.0	51.5669	0.367	0.7	ug/L	3	KED
|	Cd-1	114	23749.7	1.4	51.6773	0.573	1.1	ug/L	6	KED
[>	In-1	115	7776.7	0.3				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		104.424
|	Cr	52	101.551	
|	Cr	53	101.523	
[>	Ge	72		105.671
|	As	75	103.506	
|	As-1	75	103.140	
|	Se	77	104.718	
	Se	78	103.116	
	Br	79		
	Se	82	101.790	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	102.651	

Sample ID: QC Std 1

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Cd	114	102.572	
In	115		104.923
Tb	159		105.588
Ho	165		
Pb	208	105.804	
Bi	209		
Th	232		
Cr-1	52	101.842	
Cr-1	53	101.106	
Ge-1	72		102.329
As-2	75	104.166	
Y-1	89		
Rh-1	103		
Cd-1	111	103.134	
Cd-1	114	103.355	
In-1	115		105.372

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, September 02, 2022 07:32:49

Report Date/Time: Monday, September 05, 2022 08:13:10

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 2.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	251167.5	1.7				ug/L	258379	Standard
|	Cr	52	6217.4	3.6	-0.0343	0.021	62.5	ug/L	6656	Standard
|	Cr	53	351.3	1.2	0.0442	0.002	5.3	ug/L	323	Standard
>	Ge	72	169232.5	2.4				ug/L	174254	Standard
|	As	75	2613.1	0.9	0.0415	0.063	151.5	ug/L	2655	Standard
|	As-1	75	13.7	22.7	0.0338	0.003	9.2	ug/L	-18	Standard
|	Se	77	51.3	21.5	0.0115	0.167	1447.0	ug/L	52	Standard
|	Se	78	3139.7	1.1	0.0714	0.279	390.7	ug/L	3219	Standard
|	Br	79	143.0	14.7				ug/L	182	Standard
|	Se	82	55.3	10.0	0.0329	0.040	121.9	ug/L	53	Standard
|	Kr	83	47.0	20.5				ug/L	53	Standard
|	Y	89	353797.7	1.4				ug/L	364379	Standard
|	Rh	103	301658.3	3.1				ug/L	309795	Standard
|	Cd	111	243.9	12.0	0.0052	0.009	173.9	ug/L	234	Standard
|	Cd	114	79.8	19.6	0.0036	0.002	55.3	ug/L	54	Standard
>	In	115	401221.9	0.9				ug/L	412290	Standard
>	Tb	159	537834.6	0.7				ug/L	555028	Standard
|	Ho	165	549187.6	1.1				ug/L	564490	Standard
|	Pb	208	1062.7	3.8	0.0039	0.001	22.9	ug/L	947	Standard
|	Bi	209	313041.7	0.4				ug/L	326405	Standard
|	Th	232	393965.2	0.6				ug/L	411068	Standard
|	Cr-1	52	155.0	6.2	0.0078	0.013	169.8	ug/L	154	KED
|	Cr-1	53	22.3	22.1	0.0753	0.055	73.7	ug/L	16	KED
>	Ge-1	72	7633.4	0.6				ug/L	7877	KED
|	As-2	75	4.3	48.0	0.0381	0.045	118.9	ug/L	3	KED
|	Y-1	89	12201.5	1.9				ug/L	12480	KED
|	Rh-1	103	76904.8	0.5				ug/L	78958	KED
|	Cd-1	111	2.7	78.1	-0.0020	0.012	636.9	ug/L	3	KED
|	Cd-1	114	8.6	4.0	0.0069	0.001	10.2	ug/L	6	KED
>	In-1	115	7357.3	0.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		97.209
|	Cr	52		
|	Cr	53		
>	Ge	72		97.118
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 2

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	Cd	114	
>	In	115	97.315
>	Tb	159	96.902
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	96.913
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	99.688

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, September 02, 2022 07:36:33

Report Date/Time: Monday, September 05, 2022 08:13:12

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	261879.5	1.5				ug/L	258379	Standard
|	Cr	52	314007.6	0.6	39.9516	0.463	1.2	ug/L	6656	Standard
|	Cr	53	35627.4	1.8	39.6983	0.178	0.4	ug/L	323	Standard
>	Ge	72	176448.8	1.2				ug/L	174254	Standard
|	As	75	38811.8	1.5	40.9637	0.278	0.7	ug/L	2655	Standard
|	As-1	75	38786.7	1.3	40.9511	0.176	0.4	ug/L	-18	Standard
|	Se	77	2591.6	1.4	40.7233	0.206	0.5	ug/L	52	Standard
|	Se	78	11472.9	2.9	40.4577	1.322	3.3	ug/L	3219	Standard
|	Br	79	177.7	6.2				ug/L	182	Standard
|	Se	82	4507.4	1.9	40.5475	0.713	1.8	ug/L	53	Standard
|	Kr	83	48.3	10.2				ug/L	53	Standard
|	Y	89	371149.2	1.8				ug/L	364379	Standard
|	Rh	103	314999.2	3.4				ug/L	309795	Standard
|	Cd	111	123897.7	0.5	39.9763	0.140	0.3	ug/L	234	Standard
|	Cd	114	313473.6	1.0	40.2044	0.328	0.8	ug/L	54	Standard
>	In	115	415503.2	0.2				ug/L	412290	Standard
>	Tb	159	562139.7	0.7				ug/L	555028	Standard
|	Ho	165	570652.0	0.2				ug/L	564490	Standard
|	Pb	208	1625719.2	0.6	41.7749	0.426	1.0	ug/L	947	Standard
|	Bi	209	326848.1	0.2				ug/L	326405	Standard
|	Th	232	420650.2	0.7				ug/L	411068	Standard
|	Cr-1	52	31029.7	0.5	40.0403	1.102	2.8	ug/L	154	KED
|	Cr-1	53	3723.8	0.8	39.3115	0.886	2.3	ug/L	16	KED
>	Ge-1	72	7920.5	2.3				ug/L	7877	KED
|	As-2	75	1964.8	1.0	41.2739	1.344	3.3	ug/L	3	KED
|	Y-1	89	12733.3	0.3				ug/L	12480	KED
|	Rh-1	103	79029.3	0.6				ug/L	78958	KED
|	Cd-1	111	7008.4	2.8	39.8381	0.925	2.3	ug/L	3	KED
|	Cd-1	114	17976.1	0.8	39.2671	0.220	0.6	ug/L	6	KED
>	In-1	115	7746.4	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		101.355
|	Cr	52	99.879	
|	Cr	53	99.246	
>	Ge	72		101.260
|	As	75	102.409	
|	As-1	75	102.378	
|	Se	77	101.808	
	Se	78	101.144	
	Br	79		
	Se	82	101.369	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.941	

Sample ID: QC Std 6

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Cd	114	100.511	
In	115		100.779
Tb	159		101.281
Ho	165		
Pb	208	104.437	
Bi	209		
Th	232		
Cr-1	52	100.101	
Cr-1	53	98.279	
Ge-1	72		100.559
As-2	75	103.185	
Y-1	89		
Rh-1	103		
Cd-1	111	99.595	
Cd-1	114	98.168	
In-1	115		104.960

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, September 02, 2022 07:41:08

Report Date/Time: Monday, September 05, 2022 08:13:14

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	259679.0	2.3				ug/L	258379	Standard
|	Cr	52	158734.9	2.2	19.9357	0.103	0.5	ug/L	6656	Standard
|	Cr	53	17781.7	1.7	19.8030	0.356	1.8	ug/L	323	Standard
>	Ge	72	174675.0	1.8				ug/L	174254	Standard
|	As	75	20471.2	3.9	20.3999	0.731	3.6	ug/L	2655	Standard
|	As-1	75	19082.0	3.2	20.3618	0.582	2.9	ug/L	-18	Standard
|	Se	77	1304.1	2.6	20.2898	0.704	3.5	ug/L	52	Standard
|	Se	78	7411.6	3.9	20.8168	0.953	4.6	ug/L	3219	Standard
|	Br	79	163.3	7.8				ug/L	182	Standard
|	Se	82	2287.8	1.0	20.5543	0.425	2.1	ug/L	53	Standard
|	Kr	83	48.7	5.2				ug/L	53	Standard
|	Y	89	367274.3	1.5				ug/L	364379	Standard
|	Rh	103	312158.8	2.6				ug/L	309795	Standard
|	Cd	111	61347.5	1.1	20.1474	0.051	0.3	ug/L	234	Standard
|	Cd	114	154653.9	0.3	20.2254	0.236	1.2	ug/L	54	Standard
>	In	115	407449.1	1.0				ug/L	412290	Standard
>	Tb	159	547920.0	0.4				ug/L	555028	Standard
|	Ho	165	558016.6	0.1				ug/L	564490	Standard
|	Pb	208	796501.7	0.1	20.9854	0.076	0.4	ug/L	947	Standard
|	Bi	209	318569.3	0.6				ug/L	326405	Standard
|	Th	232	403184.1	0.5				ug/L	411068	Standard
|	Cr-1	52	15199.4	1.4	19.8004	0.472	2.4	ug/L	154	KED
|	Cr-1	53	1884.1	4.2	20.0926	0.577	2.9	ug/L	16	KED
>	Ge-1	72	7804.1	1.5				ug/L	7877	KED
|	As-2	75	964.4	0.9	20.5234	0.210	1.0	ug/L	3	KED
|	Y-1	89	12541.8	1.5				ug/L	12480	KED
|	Rh-1	103	78278.6	0.8				ug/L	78958	KED
|	Cd-1	111	3497.4	3.2	19.9810	0.661	3.3	ug/L	3	KED
|	Cd-1	114	9030.1	0.3	19.8287	0.431	2.2	ug/L	6	KED
>	In-1	115	7705.7	2.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		100.503
|	Cr	52	99.679	
|	Cr	53	99.015	
>	Ge	72		100.242
|	As	75	102.000	
|	As-1	75	101.809	
|	Se	77	101.449	
	Se	78	104.084	
	Br	79		
	Se	82	102.772	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.737	

Sample ID: QC Std 7

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Cd	114	101.127	
In	115		98.826
Tb	159		98.719
Ho	165		
Pb	208	104.927	
Bi	209		
Th	232		
Cr-1	52	99.002	
Cr-1	53	100.463	
Ge-1	72		99.081
As-2	75	102.617	
Y-1	89		
Rh-1	103		
Cd-1	111	99.905	
Cd-1	114	99.144	
In-1	115		104.409

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, September 02, 2022 07:45:43

Report Date/Time: Monday, September 05, 2022 08:13:16

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	254342.6	2.2				ug/L	258379	Standard
|	Cr	52	6295.7	1.7	-0.0342	0.009	25.3	ug/L	6656	Standard
|	Cr	53	371.7	2.3	0.0628	0.017	27.2	ug/L	323	Standard
>	Ge	72	171406.0	1.4				ug/L	174254	Standard
|	As	75	2697.9	3.8	0.0998	0.077	77.5	ug/L	2655	Standard
|	As-1	75	-2.0	688.3	0.0165	0.015	91.6	ug/L	-18	Standard
|	Se	77	47.0	14.9	-0.0690	0.111	160.9	ug/L	52	Standard
|	Se	78	3244.7	3.7	0.3923	0.416	106.0	ug/L	3219	Standard
|	Br	79	142.3	3.5				ug/L	182	Standard
|	Se	82	51.0	5.2	-0.0138	0.022	161.8	ug/L	53	Standard
|	Kr	83	46.3	27.3				ug/L	53	Standard
|	Y	89	356561.8	2.1				ug/L	364379	Standard
|	Rh	103	303936.9	2.9				ug/L	309795	Standard
|	Cd	111	249.0	6.8	0.0074	0.006	77.0	ug/L	234	Standard
|	Cd	114	50.0	8.2	-0.0003	0.001	159.2	ug/L	54	Standard
>	In	115	399230.6	0.4				ug/L	412290	Standard
>	Tb	159	534468.1	0.4				ug/L	555028	Standard
|	Ho	165	547233.0	1.6				ug/L	564490	Standard
|	Pb	208	841.0	1.1	-0.0019	0.000	9.7	ug/L	947	Standard
|	Bi	209	312463.9	0.5				ug/L	326405	Standard
|	Th	232	391680.7	0.7				ug/L	411068	Standard
|	Cr-1	52	162.3	9.4	0.0144	0.019	131.2	ug/L	154	KED
|	Cr-1	53	17.7	25.5	0.0210	0.049	232.9	ug/L	16	KED
>	Ge-1	72	7743.8	0.6				ug/L	7877	KED
|	As-2	75	3.0	57.7	0.0083	0.038	452.5	ug/L	3	KED
|	Y-1	89	12486.8	0.5				ug/L	12480	KED
|	Rh-1	103	77052.9	0.7				ug/L	78958	KED
|	Cd-1	111	2.0	86.6	-0.0063	0.010	161.6	ug/L	3	KED
|	Cd-1	114	3.9	55.0	-0.0041	0.005	121.1	ug/L	6	KED
>	In-1	115	7607.1	2.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		98.438
|	Cr	52		
|	Cr	53		
>	Ge	72		98.366
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	96.832
Tb	159	96.296
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	98.315
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	103.073

Quantitative Analysis - Summary Report

Sample ID: 08-268-07c 2X

Sample Date/Time: Friday, September 02, 2022 07:49:28

Report Date/Time: Monday, September 05, 2022 08:13:18

Method File: C:\NexlONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220902A\08-268-07c 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	343090.9	0.9				ug/L	258379	Standard
|	Cr	52	19429.2	0.9	1.0511	0.013	1.3	ug/L	6656	Standard
|	Cr	53	2337.2	2.3	1.6388	0.061	3.7	ug/L	323	Standard
>	Ge	72	198287.9	1.8				ug/L	174254	Standard
|	As	75	4029.1	0.6	1.0178	0.090	8.8	ug/L	2655	Standard
|	As-1	75	1088.3	1.6	1.0412	0.035	3.3	ug/L	-18	Standard
|	Se	77	89.3	7.5	0.4306	0.095	22.0	ug/L	52	Standard
|	Se	78	3785.8	1.1	0.5394	0.289	53.5	ug/L	3219	Standard
|	Br	79	26735.3	1.3				ug/L	182	Standard
|	Se	82	154.7	6.1	0.7611	0.068	8.9	ug/L	53	Standard
|	Kr	83	48.7	6.3				ug/L	53	Standard
|	Y	89	436965.5	1.7				ug/L	364379	Standard
|	Rh	103	359799.9	1.8				ug/L	309795	Standard
|	Cd	111	292.2	12.1	0.0122	0.011	87.7	ug/L	234	Standard
|	Cd	114	43.8	38.1	-0.0017	0.002	114.5	ug/L	54	Standard
>	In	115	442876.9	0.5				ug/L	412290	Standard
>	Tb	159	597041.5	0.5				ug/L	555028	Standard
|	Ho	165	611506.6	0.5				ug/L	564490	Standard
|	Pb	208	3057.8	2.3	0.0494	0.002	3.9	ug/L	947	Standard
|	Bi	209	325286.2	0.7				ug/L	326405	Standard
|	Th	232	448321.1	0.9				ug/L	411068	Standard
|	Cr-1	52	1241.4	3.3	1.3177	0.037	2.8	ug/L	154	KED
|	Cr-1	53	141.7	8.4	1.2470	0.127	10.2	ug/L	16	KED
>	Ge-1	72	8393.1	1.1				ug/L	7877	KED
|	As-2	75	42.0	19.5	0.7768	0.160	20.6	ug/L	3	KED
|	Y-1	89	14130.0	0.9				ug/L	12480	KED
|	Rh-1	103	82989.0	1.4				ug/L	78958	KED
|	Cd-1	111	3.3	69.3	-0.0005	0.012	2344.2	ug/L	3	KED
|	Cd-1	114	4.1	120.3	-0.0047	0.010	214.1	ug/L	6	KED
>	In-1	115	8424.0	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		132.786
|	Cr	52		
|	Cr	53		
>	Ge	72		113.793
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-268-07c 2X

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Cd	114	
In	115	107.419
Tb	159	107.570
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.559
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	114.142

Quantitative Analysis - Summary Report

Sample ID: 08-268-08c 2X

Sample Date/Time: Friday, September 02, 2022 07:54:03

Report Date/Time: Monday, September 05, 2022 08:13:20

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-08c 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	338168.6	1.0				ug/L	258379	Standard
|	Cr	52	16543.6	0.8	0.7886	0.004	0.5	ug/L	6656	Standard
|	Cr	53	1764.8	4.1	1.1691	0.057	4.9	ug/L	323	Standard
>	Ge	72	200244.0	0.8				ug/L	174254	Standard
|	As	75	4990.8	2.4	1.9377	0.085	4.4	ug/L	2655	Standard
|	As-1	75	2030.6	1.1	1.9071	0.015	0.8	ug/L	-18	Standard
|	Se	77	80.7	19.8	0.2945	0.216	73.3	ug/L	52	Standard
|	Se	78	3742.2	2.5	0.1837	0.285	154.9	ug/L	3219	Standard
|	Br	79	15853.5	2.8				ug/L	182	Standard
|	Se	82	128.7	6.6	0.5409	0.074	13.7	ug/L	53	Standard
|	Kr	83	58.0	13.5				ug/L	53	Standard
|	Y	89	438341.1	0.9				ug/L	364379	Standard
|	Rh	103	361130.2	1.5				ug/L	309795	Standard
|	Cd	111	301.9	5.5	0.0142	0.005	35.5	ug/L	234	Standard
|	Cd	114	145.1	5.3	0.0103	0.001	9.0	ug/L	54	Standard
>	In	115	447719.3	0.6				ug/L	412290	Standard
>	Tb	159	600650.4	0.7				ug/L	555028	Standard
|	Ho	165	614974.6	1.1				ug/L	564490	Standard
|	Pb	208	5981.2	0.8	0.1193	0.002	1.4	ug/L	947	Standard
|	Bi	209	324497.8	0.3				ug/L	326405	Standard
|	Th	232	441673.3	0.8				ug/L	411088	Standard
|	Cr-1	52	974.4	0.5	0.9810	0.024	2.4	ug/L	154	KED
|	Cr-1	53	124.0	14.8	1.0579	0.173	18.3	ug/L	16	KED
>	Ge-1	72	8467.8	1.7				ug/L	7877	KED
|	As-2	75	95.0	10.0	1.8140	0.218	11.9	ug/L	3	KED
|	Y-1	89	14252.1	0.4				ug/L	12480	KED
|	Rh-1	103	84451.6	1.1				ug/L	78958	KED
|	Cd-1	111	8.7	48.0	0.0263	0.021	80.4	ug/L	3	KED
|	Cd-1	114	10.1	53.0	0.0069	0.011	153.6	ug/L	6	KED
>	In-1	115	8635.2	0.4				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		130.881
	Cr	52		
	Cr	53		
>	Ge	72		114.915
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	108.593
Tb	159	108.220
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	107.508
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	117.003

Quantitative Analysis - Summary Report

Sample ID: 08-268-09c 2X

Sample Date/Time: Friday, September 02, 2022 07:58:38

Report Date/Time: Monday, September 05, 2022 08:13:22

Method File: C:\NexlONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexlONData_kmckinney\DataSet\X220902A\08-268-09c 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	361456.0	1.9				ug/L	258379	Standard
|	Cr	52	24628.6	2.3	1.4428	0.016	1.1	ug/L	6656	Standard
|	Cr	53	3183.0	1.7	2.2258	0.006	0.2	ug/L	323	Standard
>	Ge	72	199356.7	1.8				ug/L	174254	Standard
|	As	75	3986.8	3.4	0.9520	0.082	8.6	ug/L	2655	Standard
|	As-1	75	1073.1	6.6	1.0205	0.048	4.7	ug/L	-18	Standard
|	Se	77	99.0	5.6	0.5615	0.091	16.3	ug/L	52	Standard
|	Se	78	3782.5	3.3	0.4312	0.329	76.3	ug/L	3219	Standard
|	Br	79	31831.4	1.2				ug/L	182	Standard
|	Se	82	165.7	13.3	0.8415	0.153	18.2	ug/L	53	Standard
|	Kr	83	49.7	21.1				ug/L	53	Standard
|	Y	89	439137.7	1.3				ug/L	364379	Standard
|	Rh	103	359209.0	1.9				ug/L	309795	Standard
|	Cd	111	282.3	6.8	0.0093	0.006	68.1	ug/L	234	Standard
|	Cd	114	61.3	21.5	0.0004	0.002	412.2	ug/L	54	Standard
>	In	115	442747.0	0.6				ug/L	412290	Standard
>	Tb	159	599513.4	0.7				ug/L	555028	Standard
|	Ho	165	613259.8	0.2				ug/L	564490	Standard
|	Pb	208	2778.1	0.6	0.0423	0.001	1.6	ug/L	947	Standard
|	Bi	209	320472.1	0.4				ug/L	326405	Standard
|	Th	232	442882.7	0.4				ug/L	411068	Standard
|	Cr-1	52	1681.8	2.9	1.8244	0.051	2.8	ug/L	154	KED
|	Cr-1	53	204.3	5.5	1.8415	0.112	6.1	ug/L	16	KED
>	Ge-1	72	8526.2	0.7				ug/L	7877	KED
|	As-2	75	44.0	18.0	0.8029	0.153	19.1	ug/L	3	KED
|	Y-1	89	14419.3	0.6				ug/L	12480	KED
|	Rh-1	103	84634.0	0.7				ug/L	78958	KED
|	Cd-1	111	4.7	12.4	0.0058	0.003	49.9	ug/L	3	KED
|	Cd-1	114	2.1	146.1	-0.0089	0.006	66.1	ug/L	6	KED
>	In-1	115	8676.0	0.6				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		139.894
	Cr	52		
	Cr	53		
>	Ge	72		114.406
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	107.387
Tb	159	108.015
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	108.249
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	117.557

Quantitative Analysis - Summary Report

Sample ID: 08-268-01d 2X FFD

Sample Date/Time: Friday, September 02, 2022 08:03:13

Report Date/Time: Monday, September 05, 2022 08:13:24

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-01d 2X FFD.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	366761.1	2.4				ug/L	258379	Standard
|	Cr	52	41600.5	2.2	2.9850	0.016	0.5	ug/L	6656	Standard
|	Cr	53	5790.5	4.1	4.2808	0.082	1.9	ug/L	323	Standard
[>	Ge	72	198640.1	1.8				ug/L	174254	Standard
|	As	75	4595.9	4.2	1.5793	0.111	7.0	ug/L	2655	Standard
|	As-1	75	1879.1	3.8	1.7798	0.035	2.0	ug/L	-18	Standard
|	Se	77	202.3	5.3	2.0383	0.147	7.2	ug/L	52	Standard
|	Se	78	4079.2	3.4	1.7880	0.309	17.3	ug/L	3219	Standard
|	Br	79	90095.9	1.9				ug/L	182	Standard
|	Se	82	372.0	2.1	2.5176	0.089	3.5	ug/L	53	Standard
|	Kr	83	67.7	11.9				ug/L	53	Standard
|	Y	89	445572.8	0.4				ug/L	364379	Standard
|	Rh	103	350062.6	1.3				ug/L	309795	Standard
|	Cd	111	349.1	8.1	0.0315	0.008	26.6	ug/L	234	Standard
|	Cd	114	105.0	25.3	0.0059	0.003	56.1	ug/L	54	Standard
[>	In	115	434338.9	0.4				ug/L	412290	Standard
[>	Tb	159	594229.5	0.4				ug/L	555028	Standard
|	Ho	165	605581.9	0.3				ug/L	564490	Standard
|	Pb	208	6729.3	1.6	0.1390	0.003	2.1	ug/L	947	Standard
|	Bi	209	309235.0	1.1				ug/L	326405	Standard
|	Th	232	438221.3	0.7				ug/L	411068	Standard
|	Cr-1	52	3302.0	1.3	3.8343	0.103	2.7	ug/L	154	KED
|	Cr-1	53	435.7	3.3	4.1836	0.212	5.1	ug/L	16	KED
[>	Ge-1	72	8404.5	1.6				ug/L	7877	KED
|	As-2	75	63.7	14.3	1.2061	0.189	15.7	ug/L	3	KED
|	Y-1	89	14715.6	1.4				ug/L	12480	KED
|	Rh-1	103	82013.1	0.9				ug/L	78958	KED
|	Cd-1	111	4.0	43.3	0.0028	0.009	327.3	ug/L	3	KED
|	Cd-1	114	7.8	16.5	0.0025	0.002	95.9	ug/L	6	KED
[>	In-1	115	8530.5	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		141.947
|	Cr	52		
|	Cr	53		
[>	Ge	72		113.995
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-268-01d 2X FFD

Report Date/Time: Monday, September 05, 2022 08:13:24

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Cd	114	
In	115	105.348
Tb	159	107.063
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.703
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.585

Quantitative Analysis - Summary Report

Sample ID: 08-268-02d 5X

Sample Date/Time: Friday, September 02, 2022 08:17:05

Report Date/Time: Monday, September 05, 2022 08:13:27

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-02d 5X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	278826.6	3.2				ug/L	258379	Standard
|	Cr	52	18454.9	2.2	1.3770	0.025	1.8	ug/L	6656	Standard
|	Cr	53	1510.7	2.0	1.2288	0.048	3.9	ug/L	323	Standard
[>	Ge	72	172685.5	3.2				ug/L	174254	Standard
|	As	75	4226.4	3.8	1.8477	0.041	2.2	ug/L	2655	Standard
|	As-1	75	1478.3	8.0	1.6114	0.081	5.0	ug/L	-18	Standard
|	Se	77	144.0	18.2	1.5185	0.453	29.9	ug/L	52	Standard
|	Se	78	3596.5	3.2	2.0440	0.011	0.5	ug/L	3219	Standard
|	Br	79	34459.9	1.7				ug/L	182	Standard
|	Se	82	167.7	15.3	1.0643	0.188	17.7	ug/L	53	Standard
|	Kr	83	53.7	11.4				ug/L	53	Standard
|	Y	89	354582.4	3.0				ug/L	364379	Standard
|	Rh	103	285914.2	2.4				ug/L	309795	Standard
|	Cd	111	244.0	8.3	0.0099	0.007	70.5	ug/L	234	Standard
|	Cd	114	62.5	9.3	0.0018	0.001	53.1	ug/L	54	Standard
[>	In	115	379930.3	1.6				ug/L	412290	Standard
[>	Tb	159	515143.8	0.7				ug/L	555028	Standard
|	Ho	165	526748.6	0.4				ug/L	564490	Standard
|	Pb	208	1026.7	3.5	0.0041	0.001	19.9	ug/L	947	Standard
|	Bi	209	286190.1	1.1				ug/L	326405	Standard
|	Th	232	375814.5	1.1				ug/L	411068	Standard
|	Cr-1	52	416.7	1.2	0.3040	0.005	1.7	ug/L	154	KED
|	Cr-1	53	68.0	5.9	0.5029	0.038	7.5	ug/L	16	KED
[>	Ge-1	72	8477.2	2.1				ug/L	7877	KED
|	As-2	75	72.0	8.4	1.3587	0.127	9.4	ug/L	3	KED
|	Y-1	89	13943.8	0.8				ug/L	12480	KED
|	Rh-1	103	78418.7	1.1				ug/L	78958	KED
|	Cd-1	111	4.0	43.3	0.0028	0.009	318.0	ug/L	3	KED
|	Cd-1	114	5.7	20.7	-0.0015	0.002	168.0	ug/L	6	KED
[>	In-1	115	8489.6	0.7				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		107.914
	Cr	52		
	Cr	53		
[>	Ge	72		99.100
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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	Cd	114	
>	In	115	92.151
>	Tb	159	92.814
	Ho	165	
	Pb	208	
	Bi	209	
	Th	232	
	Cr-1	52	
	Cr-1	53	
>	Ge-1	72	107.626
|	As-2	75	
|	Y-1	89	
|	Rh-1	103	
|	Cd-1	111	
|	Cd-1	114	
|>	In-1	115	115.031

Quantitative Analysis - Summary Report

Sample ID: 08-268-03d 5X

Sample Date/Time: Friday, September 02, 2022 08:21:40

Report Date/Time: Monday, September 05, 2022 08:13:28

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-268-03d 5X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	273757.0	2.7				ug/L	258379	Standard
|	Cr	52	13865.4	2.4	0.8475	0.007	0.8	ug/L	6656	Standard
|	Cr	53	824.4	6.9	0.5185	0.039	7.5	ug/L	323	Standard
>	Ge	72	176023.0	3.5				ug/L	174254	Standard
|	As	75	3858.3	2.4	1.3394	0.141	10.5	ug/L	2655	Standard
|	As-1	75	1024.7	1.4	1.1041	0.053	4.8	ug/L	-18	Standard
|	Se	77	69.7	3.0	0.2773	0.073	26.4	ug/L	52	Standard
|	Se	78	3467.4	3.1	1.0696	0.477	44.5	ug/L	3219	Standard
|	Br	79	4474.0	3.1				ug/L	182	Standard
|	Se	82	78.0	10.2	0.2203	0.070	31.6	ug/L	53	Standard
|	Kr	83	49.7	23.3				ug/L	53	Standard
|	Y	89	364995.3	3.2				ug/L	364379	Standard
|	Rh	103	299554.5	4.3				ug/L	309795	Standard
|	Cd	111	241.1	14.5	0.0053	0.011	208.7	ug/L	234	Standard
|	Cd	114	39.0	33.9	-0.0018	0.002	98.2	ug/L	54	Standard
>	In	115	396005.5	1.0				ug/L	412290	Standard
>	Tb	159	527752.9	1.3				ug/L	555028	Standard
|	Ho	165	538835.0	1.7				ug/L	564490	Standard
|	Pb	208	2192.1	1.4	0.0354	0.001	2.4	ug/L	947	Standard
|	Bi	209	297935.2	0.9				ug/L	326405	Standard
|	Th	232	384872.9	1.0				ug/L	411068	Standard
|	Cr-1	52	358.3	2.8	0.2267	0.012	5.1	ug/L	154	KED
|	Cr-1	53	44.0	8.2	0.2587	0.035	13.7	ug/L	16	KED
>	Ge-1	72	8606.6	0.5				ug/L	7877	KED
|	As-2	75	59.7	15.6	1.0987	0.185	16.8	ug/L	3	KED
|	Y-1	89	14057.6	2.4				ug/L	12480	KED
|	Rh-1	103	81534.7	0.7				ug/L	78958	KED
|	Cd-1	111	2.3	65.5	-0.0061	0.008	127.6	ug/L	3	KED
|	Cd-1	114	4.2	37.5	-0.0047	0.003	66.6	ug/L	6	KED
>	In-1	115	8699.0	0.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		105.952
	Cr	52		
	Cr	53		
>	Ge	72		101.015
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

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Cd	114	
In	115	96.050
Tb	159	95.086
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	109.269
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	117.868

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, September 02, 2022 08:26:16

Report Date/Time: Monday, September 05, 2022 08:13:30

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	277322.8	1.8				ug/L	258379	Standard
|	Cr	52	328606.4	2.6	39.4625	0.331	0.8	ug/L	6656	Standard
|	Cr	53	37025.9	1.9	38.9538	0.272	0.7	ug/L	323	Standard
>	Ge	72	183920.4	2.1				ug/L	174254	Standard
|	As	75	40705.8	2.2	41.2370	0.162	0.4	ug/L	2655	Standard
|	As-1	75	40115.4	2.3	40.6327	0.156	0.4	ug/L	-18	Standard
|	Se	77	2649.9	4.0	39.9257	1.013	2.5	ug/L	52	Standard
|	Se	78	12295.3	1.0	42.0594	0.623	1.5	ug/L	3219	Standard
|	Br	79	490.7	12.4				ug/L	182	Standard
|	Se	82	4574.4	3.3	39.4678	1.180	3.0	ug/L	53	Standard
|	Kr	83	54.0	7.4				ug/L	53	Standard
|	Y	89	381942.8	1.4				ug/L	364379	Standard
|	Rh	103	321503.6	1.8				ug/L	309795	Standard
|	Cd	111	123915.6	1.4	39.8686	0.678	1.7	ug/L	234	Standard
|	Cd	114	316652.5	0.4	40.4966	0.285	0.7	ug/L	54	Standard
>	In	115	416701.7	0.6				ug/L	412290	Standard
>	Tb	159	553928.5	0.4				ug/L	555028	Standard
|	Ho	165	561529.5	0.6				ug/L	564490	Standard
|	Pb	208	1597977.2	0.1	41.6695	0.177	0.4	ug/L	947	Standard
|	Bi	209	319035.7	1.0				ug/L	326405	Standard
|	Th	232	406571.1	0.4				ug/L	411068	Standard
|	Cr-1	52	32680.3	0.9	38.8076	0.666	1.7	ug/L	154	KED
|	Cr-1	53	3993.9	0.2	38.8076	0.504	1.3	ug/L	16	KED
>	Ge-1	72	8602.9	1.2				ug/L	7877	KED
|	As-2	75	2160.5	2.2	41.7761	1.421	3.4	ug/L	3	KED
|	Y-1	89	14284.1	1.6				ug/L	12480	KED
|	Rh-1	103	84984.4	1.0				ug/L	78958	KED
|	Cd-1	111	7705.1	2.4	38.8069	0.833	2.1	ug/L	3	KED
|	Cd-1	114	19732.1	1.1	38.1904	0.520	1.4	ug/L	6	KED
>	In-1	115	8742.8	0.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		107.332
|	Cr	52	98.656	
|	Cr	53	97.384	
>	Ge	72		105.547
|	As	75	103.093	
	As-1	75	101.582	
	Se	77	99.814	
	Se	78	105.148	
	Br	79		
	Se	82	98.670	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	99.672	

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Cd	114	101.242	
In	115		101.070
Tb	159		99.802
Ho	165		
Pb	208	104.174	
Bi	209		
Th	232		
Cr-1	52	97.019	
Cr-1	53	97.019	
Ge-1	72		109.223
As-2	75	104.440	
Y-1	89		
Rh-1	103		
Cd-1	111	97.017	
Cd-1	114	95.476	
In-1	115		118.461

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, September 02, 2022 08:30:51

Report Date/Time: Monday, September 05, 2022 08:13:32

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	269151.8	2.9				ug/L	258379	Standard
|	Cr	52	163887.2	1.4	19.8604	0.336	1.7	ug/L	6656	Standard
|	Cr	53	18207.6	2.3	19.5581	0.189	1.0	ug/L	323	Standard
>	Ge	72	179634.7	2.3				ug/L	174254	Standard
|	As	75	21567.0	1.4	20.9790	0.353	1.7	ug/L	2655	Standard
|	As-1	75	19880.3	1.6	20.6290	0.145	0.7	ug/L	-18	Standard
|	Se	77	1382.1	5.6	20.9220	0.829	4.0	ug/L	52	Standard
|	Se	78	7782.8	1.7	21.6053	0.385	1.8	ug/L	3219	Standard
|	Br	79	390.3	6.0				ug/L	182	Standard
|	Se	82	2298.9	4.5	20.0633	0.624	3.1	ug/L	53	Standard
|	Kr	83	47.7	11.6				ug/L	53	Standard
|	Y	89	371607.3	2.2				ug/L	364379	Standard
|	Rh	103	311797.5	2.0				ug/L	309795	Standard
|	Cd	111	60892.1	1.1	20.0308	0.219	1.1	ug/L	234	Standard
|	Cd	114	153952.3	0.8	20.1652	0.045	0.2	ug/L	54	Standard
>	In	115	406785.3	1.0				ug/L	412290	Standard
>	Tb	159	538432.6	1.1				ug/L	555028	Standard
|	Ho	165	551153.9	0.4				ug/L	564490	Standard
|	Pb	208	784743.6	0.4	21.0409	0.163	0.8	ug/L	947	Standard
|	Bi	209	311727.4	0.1				ug/L	326405	Standard
|	Th	232	395699.4	0.3				ug/L	411068	Standard
|	Cr-1	52	16191.8	0.5	19.4734	0.452	2.3	ug/L	154	KED
|	Cr-1	53	1971.5	1.5	19.4185	0.666	3.4	ug/L	16	KED
>	Ge-1	72	8452.8	2.1				ug/L	7877	KED
|	As-2	75	1088.0	1.1	21.3818	0.209	1.0	ug/L	3	KED
|	Y-1	89	14019.5	1.3				ug/L	12480	KED
|	Rh-1	103	82789.5	0.4				ug/L	78958	KED
|	Cd-1	111	3768.2	1.9	19.0511	0.301	1.6	ug/L	3	KED
|	Cd-1	114	9815.6	0.8	19.0730	0.238	1.2	ug/L	6	KED
>	In-1	115	8705.2	0.5				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		104.170
|	Cr	52	99.302	
|	Cr	53	97.790	
>	Ge	72		103.088
|	As	75	104.895	
|	As-1	75	103.145	
|	Se	77	104.610	
	Se	78	108.027	
	Br	79		
	Se	82	100.316	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.154	

Sample ID: QC Std 7

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Cd	114	100.826	
In	115		98.665
Tb	159		97.010
Ho	165		
Pb	208	105.205	
Bi	209		
Th	232		
Cr-1	52	97.367	
Cr-1	53	97.092	
Ge-1	72		107.317
As-2	75	106.909	
Y-1	89		
Rh-1	103		
Cd-1	111	95.255	
Cd-1	114	95.365	
In-1	115		117.951

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, September 02, 2022 08:35:27

Report Date/Time: Monday, September 05, 2022 08:13:34

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	261141.9	2.2				ug/L	258379	Standard
|	Cr	52	6994.0	1.2	0.0360	0.015	41.5	ug/L	6656	Standard
|	Cr	53	412.0	1.1	0.0969	0.005	5.1	ug/L	323	Standard
>	Ge	72	175546.3	2.9				ug/L	174254	Standard
|	As	75	2888.2	1.9	0.2437	0.042	17.2	ug/L	2655	Standard
|	As-1	75	28.5	91.7	0.0493	0.028	57.1	ug/L	-18	Standard
|	Se	77	65.0	4.6	0.2047	0.074	36.1	ug/L	52	Standard
|	Se	78	3445.1	1.9	1.0027	0.168	16.8	ug/L	3219	Standard
|	Br	79	303.3	3.2				ug/L	182	Standard
|	Se	82	57.3	9.6	0.0340	0.062	182.7	ug/L	53	Standard
|	Kr	83	41.7	18.3				ug/L	53	Standard
|	Y	89	360162.3	1.5				ug/L	364379	Standard
|	Rh	103	304776.8	1.7				ug/L	309795	Standard
|	Cd	111	225.8	4.3	0.0003	0.003	932.6	ug/L	234	Standard
|	Cd	114	43.8	17.2	-0.0011	0.001	96.7	ug/L	54	Standard
>	In	115	395300.4	0.7				ug/L	412290	Standard
>	Tb	159	529224.5	0.3				ug/L	555028	Standard
|	Ho	165	539100.8	0.4				ug/L	564490	Standard
|	Pb	208	902.3	3.5	-0.0000	0.001	3712.6	ug/L	947	Standard
|	Bi	209	307429.4	0.3				ug/L	326405	Standard
|	Th	232	386871.6	0.6				ug/L	411068	Standard
|	Cr-1	52	154.7	6.4	-0.0106	0.011	107.7	ug/L	154	KED
|	Cr-1	53	19.7	47.2	0.0268	0.092	344.8	ug/L	16	KED
>	Ge-1	72	8352.1	1.1				ug/L	7877	KED
|	As-2	75	2.7	86.6	-0.0031	0.046	1486.5	ug/L	3	KED
|	Y-1	89	13868.1	0.9				ug/L	12480	KED
|	Rh-1	103	81492.1	1.0				ug/L	78958	KED
|	Cd-1	111	3.7	41.7	0.0010	0.008	775.1	ug/L	3	KED
|	Cd-1	114	1.8	26.1	-0.0093	0.001	10.5	ug/L	6	KED
>	In-1	115	8542.5	0.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		101.070
|	Cr	52		
|	Cr	53		
>	Ge	72		100.742
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	95.879
Tb	159	95.351
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.038
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	115.748

Quantitative Analysis - Summary Report

Sample ID: MB0826F1 2X

Sample Date/Time: Friday, September 02, 2022 08:40:20

Report Date/Time: Monday, September 05, 2022 08:13:36

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\MB0826F1 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	281288.4	2.1				ug/L	258379	Standard
|	Cr	52	7580.3	2.5	0.0405	0.008	20.4	ug/L	6656	Standard
|	Cr	53	420.7	3.5	0.0726	0.012	15.9	ug/L	323	Standard
>	Ge	72	186172.7	2.3				ug/L	174254	Standard
|	As	75	2922.7	4.2	0.0915	0.074	81.1	ug/L	2655	Standard
|	As-1	75	24.9	99.7	0.0440	0.025	57.9	ug/L	-18	Standard
|	Se	77	62.3	20.3	0.1045	0.200	191.4	ug/L	52	Standard
|	Se	78	3494.1	4.4	0.2501	0.406	162.3	ug/L	3219	Standard
|	Br	79	295.3	4.9				ug/L	182	Standard
|	Se	82	59.3	10.7	0.0208	0.061	291.3	ug/L	53	Standard
|	Kr	83	53.3	6.0				ug/L	53	Standard
|	Y	89	383839.2	2.2				ug/L	364379	Standard
|	Rh	103	322737.0	2.2				ug/L	309795	Standard
|	Cd	111	252.9	7.7	0.0046	0.005	115.5	ug/L	234	Standard
|	Cd	114	75.5	6.4	0.0026	0.001	27.1	ug/L	54	Standard
>	In	115	419189.2	1.2				ug/L	412290	Standard
>	Tb	159	550051.6	0.8				ug/L	555028	Standard
|	Ho	165	561409.2	0.8				ug/L	564490	Standard
|	Pb	208	1805.7	2.7	0.0228	0.001	6.5	ug/L	947	Standard
|	Bi	209	319346.0	0.5				ug/L	326405	Standard
|	Th	232	405812.8	0.7				ug/L	411068	Standard
|	Cr-1	52	182.0	8.5	0.0115	0.021	180.8	ug/L	154	KED
|	Cr-1	53	22.0	15.7	0.0390	0.032	82.5	ug/L	16	KED
>	Ge-1	72	8810.4	1.5				ug/L	7877	KED
|	As-2	75	2.7	78.1	-0.0063	0.039	610.9	ug/L	3	KED
|	Y-1	89	14617.5	1.1				ug/L	12480	KED
|	Rh-1	103	85589.0	0.3				ug/L	78958	KED
|	Cd-1	111	3.0	57.7	-0.0034	0.008	237.4	ug/L	3	KED
|	Cd-1	114	6.0	10.8	-0.0017	0.001	72.0	ug/L	6	KED
>	In-1	115	9092.0	1.4				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		108.867
|	Cr	52		
|	Cr	53		
>	Ge	72		106.840
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: MB0826F1 2X

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Cd	114	
In	115	101.673
Tb	159	99.103
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	111.857
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	123.192

Quantitative Analysis - Summary Report

Sample ID: SB0826F1 2X

Sample Date/Time: Friday, September 02, 2022 08:44:55

Report Date/Time: Monday, September 05, 2022 08:13:37

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\SB0826F1 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	281913.7	1.8				ug/L	258379	Standard
|	Cr	52	318733.4	1.0	37.6226	0.555	1.5	ug/L	6656	Standard
|	Cr	53	35931.5	1.4	37.1745	0.577	1.6	ug/L	323	Standard
[>	Ge	72	187675.8	2.3				ug/L	174254	Standard
|	As	75	39731.6	1.2	39.3200	0.541	1.4	ug/L	2655	Standard
|	As-1	75	39009.4	1.0	38.7340	0.743	1.9	ug/L	-18	Standard
|	Se	77	2584.9	1.3	38.1481	0.892	2.3	ug/L	52	Standard
|	Se	78	12022.4	4.0	39.6103	1.002	2.5	ug/L	3219	Standard
|	Br	79	292.3	1.4				ug/L	182	Standard
|	Se	82	4407.0	2.8	37.2351	0.848	2.3	ug/L	53	Standard
|	Kr	83	45.0	2.2				ug/L	53	Standard
|	Y	89	387305.3	2.5				ug/L	364379	Standard
|	Rh	103	327173.2	1.8				ug/L	309795	Standard
|	Cd	111	118539.7	1.4	37.7765	0.308	0.8	ug/L	234	Standard
|	Cd	114	303391.3	1.8	38.4353	0.423	1.1	ug/L	54	Standard
[>	In	115	420628.3	0.8				ug/L	412290	Standard
[>	Tb	159	554180.3	1.0				ug/L	555028	Standard
|	Ho	165	568594.2	1.1				ug/L	564490	Standard
|	Pb	208	1520847.8	1.0	39.6388	0.061	0.2	ug/L	947	Standard
|	Bi	209	320938.9	0.9				ug/L	326405	Standard
|	Th	232	406821.7	0.3				ug/L	411068	Standard
|	Cr-1	52	31819.7	1.6	37.0563	0.954	2.6	ug/L	154	KED
|	Cr-1	53	3942.2	2.1	37.5697	1.052	2.8	ug/L	16	KED
[>	Ge-1	72	8771.4	2.0				ug/L	7877	KED
|	As-2	75	2071.2	2.4	39.2821	1.512	3.8	ug/L	3	KED
|	Y-1	89	14713.9	0.8				ug/L	12480	KED
|	Rh-1	103	86505.5	0.9				ug/L	78958	KED
|	Cd-1	111	7552.3	2.1	36.6964	1.390	3.8	ug/L	3	KED
|	Cd-1	114	19568.1	0.7	36.5272	0.662	1.8	ug/L	6	KED
[>	In-1	115	9066.3	1.9				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		109.109
|	Cr	52		
|	Cr	53		
[>	Ge	72		107.702
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: SB0826F1 2X

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Cd	114	
In	115	102.022
Tb	159	99.847
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	111.361
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	122.845

Quantitative Analysis - Summary Report

Sample ID: 08-291-16e 2X F

Sample Date/Time: Friday, September 02, 2022 08:49:29

Report Date/Time: Monday, September 05, 2022 08:13:39

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16e 2X F.038

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc 45	320164.1	3.1				ug/L	258379	Standard
|	Cr 52	18250.7	0.3	1.0649	0.053	5.0	ug/L	6656	Standard
|	Cr 53	815.0	2.3	0.3821	0.014	3.7	ug/L	323	Standard
>	Ge 72	185871.2	2.4				ug/L	174254	Standard
|	As 75	3162.0	3.6	0.3559	0.134	37.8	ug/L	2655	Standard
|	As-1 75	220.9	30.6	0.2401	0.068	28.4	ug/L	-18	Standard
|	Se 77	70.7	19.1	0.2351	0.230	97.9	ug/L	52	Standard
|	Se 78	3584.8	2.7	0.7074	0.396	56.0	ug/L	3219	Standard
|	Br 79	2493.9	3.8				ug/L	182	Standard
|	Se 82	75.3	24.2	0.1577	0.144	91.2	ug/L	53	Standard
|	Kr 83	57.0	15.2				ug/L	53	Standard
|	Y 89	388432.2	2.8				ug/L	364379	Standard
|	Rh 103	310252.3	2.4				ug/L	309795	Standard
|	Cd 111	259.0	6.5	0.0085	0.006	66.4	ug/L	234	Standard
|	Cd 114	90.6	6.7	0.0048	0.001	16.1	ug/L	54	Standard
>	In 115	409861.7	0.6				ug/L	412290	Standard
>	Tb 159	545118.0	0.7				ug/L	555028	Standard
|	Ho 165	558179.6	0.4				ug/L	564490	Standard
|	Pb 208	1747.7	3.3	0.0217	0.001	5.7	ug/L	947	Standard
|	Bi 209	303439.4	0.2				ug/L	326405	Standard
|	Th 232	405075.8	0.2				ug/L	411068	Standard
|	Cr-1 52	332.3	4.0	0.1930	0.015	7.9	ug/L	154	KED
|	Cr-1 53	43.7	11.3	0.2523	0.046	18.4	ug/L	16	KED
>	Ge-1 72	8666.6	0.4				ug/L	7877	KED
|	As-2 75	12.3	16.9	0.1807	0.040	22.3	ug/L	3	KED
|	Y-1 89	14597.5	1.2				ug/L	12480	KED
|	Rh-1 103	81583.3	1.4				ug/L	78958	KED
|	Cd-1 111	7.0	28.6	0.0169	0.010	58.9	ug/L	3	KED
|	Cd-1 114	6.8	37.0	0.0000	0.004	141.2	ug/L	6	KED
>	In-1 115	8864.4	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte Mass	QC Std % Recovery	Int Std % Recovery
>	Sc 45		123.913
|	Cr 52		
|	Cr 53		
>	Ge 72		106.667
|	As 75		
|	As-1 75		
|	Se 77		
|	Se 78		
|	Br 79		
|	Se 82		
|	Kr 83		
|	Y 89		
|	Rh 103		
|	Cd 111		

Sample ID: 08-291-16e 2X F

Report Date/Time: Monday, September 05, 2022 08:13:39

—	Cd	114	
[>	In	115	99.411
[>	Tb	159	98.214
—	Ho	165	
—	Pb	208	
—	Bi	209	
—	Th	232	
—	Cr-1	52	
—	Cr-1	53	
[>	Ge-1	72	110.031
[	As-2	75	
—	Y-1	89	
—	Rh-1	103	
—	Cd-1	111	
—	Cd-1	114	
[>	In-1	115	120.109

Quantitative Analysis - Summary Report

Sample ID: 08-291-18e 2X F

Sample Date/Time: Friday, September 02, 2022 08:54:03

Report Date/Time: Monday, September 05, 2022 08:13:41

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-18e 2X F.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	339255.2	1.8				ug/L	258379	Standard
|	Cr	52	14328.9	2.4	0.5609	0.009	1.7	ug/L	6656	Standard
|	Cr	53	680.0	3.7	0.2228	0.028	12.8	ug/L	323	Standard
[>	Ge	72	182044.9	2.1				ug/L	174254	Standard
|	As	75	5729.9	1.6	3.2497	0.075	2.3	ug/L	2655	Standard
|	As-1	75	2832.1	1.8	2.9159	0.033	1.1	ug/L	-18	Standard
|	Se	77	69.7	10.4	0.2373	0.089	37.4	ug/L	52	Standard
|	Se	78	3616.8	1.5	1.2128	0.237	19.5	ug/L	3219	Standard
|	Br	79	10441.1	2.1				ug/L	182	Standard
|	Se	82	107.7	2.3	0.4586	0.025	5.5	ug/L	53	Standard
|	Kr	83	54.0	18.2				ug/L	53	Standard
|	Y	89	377257.5	1.2				ug/L	364379	Standard
[	Rh	103	307199.5	2.5				ug/L	309795	Standard
|	Cd	111	251.6	1.4	0.0081	0.001	13.9	ug/L	234	Standard
|	Cd	114	90.6	13.9	0.0051	0.002	32.2	ug/L	54	Standard
[>	In	115	399735.1	0.6				ug/L	412290	Standard
[>	Tb	159	537248.3	0.5				ug/L	555028	Standard
|	Ho	165	546919.3	0.4				ug/L	564490	Standard
|	Pb	208	958.3	0.8	0.0011	0.000	25.4	ug/L	947	Standard
|	Bi	209	289601.3	0.5				ug/L	326405	Standard
|	Th	232	394867.9	0.5				ug/L	411068	Standard
[	Cr-1	52	191.0	2.9	0.0426	0.010	22.4	ug/L	154	KED
|	Cr-1	53	26.7	15.2	0.1073	0.043	39.9	ug/L	16	KED
[>	Ge-1	72	8061.6	1.1				ug/L	7877	KED
|	As-2	75	138.3	6.0	2.8003	0.148	5.3	ug/L	3	KED
|	Y-1	89	13910.8	3.3				ug/L	12480	KED
|	Rh-1	103	77121.6	0.8				ug/L	78958	KED
[	Cd-1	111	5.7	66.8	0.0120	0.020	169.7	ug/L	3	KED
|	Cd-1	114	5.4	22.2	-0.0021	0.002	116.8	ug/L	6	KED
[>	In-1	115	8398.4	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		131.302
|	Cr	52		
|	Cr	53		
[>	Ge	72		104.471
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
[	Rh	103		
|	Cd	111		

Sample ID: 08-291-18e 2X F

Report Date/Time: Monday, September 05, 2022 08:13:41

Cd	114	
In	115	96.955
Tb	159	96.797
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	102.350
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	113.794

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eD 2X

Sample Date/Time: Friday, September 02, 2022 09:00:13

Report Date/Time: Monday, September 05, 2022 08:13:43

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eD 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	325363.5	3.6				ug/L	258379	Standard
|	Cr	52	18913.2	2.5	1.1026	0.022	2.0	ug/L	6656	Standard
|	Cr	53	858.7	3.7	0.4100	0.036	8.8	ug/L	323	Standard
>	Ge	72	182947.2	2.6				ug/L	174254	Standard
|	As	75	3213.1	3.9	0.4647	0.074	15.9	ug/L	2655	Standard
|	As-1	75	256.3	14.0	0.2803	0.042	14.9	ug/L	-18	Standard
|	Se	77	59.7	9.2	0.0799	0.102	128.1	ug/L	52	Standard
|	Se	78	3613.8	4.3	1.1063	0.324	29.3	ug/L	3219	Standard
|	Br	79	2733.3	2.7				ug/L	182	Standard
|	Se	82	79.7	8.1	0.2088	0.069	33.3	ug/L	53	Standard
|	Kr	83	50.3	16.7				ug/L	53	Standard
|	Y	89	379659.6	3.6				ug/L	364379	Standard
|	Rh	103	307010.3	1.5				ug/L	309795	Standard
|	Cd	111	240.8	1.5	0.0048	0.001	26.3	ug/L	234	Standard
|	Cd	114	59.1	6.2	0.0009	0.000	45.5	ug/L	54	Standard
>	In	115	398486.1	1.1				ug/L	412290	Standard
>	Tb	159	526161.6	0.9				ug/L	555028	Standard
|	Ho	165	537323.0	0.4				ug/L	564490	Standard
|	Pb	208	736.7	4.9	-0.0044	0.001	21.6	ug/L	947	Standard
|	Bi	209	291001.7	0.4				ug/L	326405	Standard
|	Th	232	387476.2	1.4				ug/L	411068	Standard
|	Cr-1	52	331.7	0.6	0.2132	0.004	1.8	ug/L	154	KED
|	Cr-1	53	46.0	17.3	0.2984	0.077	25.8	ug/L	16	KED
>	Ge-1	72	8228.0	1.2				ug/L	7877	KED
|	As-2	75	10.7	39.0	0.1589	0.082	51.8	ug/L	3	KED
|	Y-1	89	13755.3	0.6				ug/L	12480	KED
|	Rh-1	103	78904.3	0.7				ug/L	78958	KED
|	Cd-1	111	3.3	45.8	-0.0009	0.008	812.8	ug/L	3	KED
|	Cd-1	114	4.0	41.4	-0.0050	0.003	68.1	ug/L	6	KED
>	In-1	115	8607.0	1.8				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		125.925
|	Cr	52		
|	Cr	53		
>	Ge	72		104.989
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-291-16eD 2X

Report Date/Time: Monday, September 05, 2022 08:13:43

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Cd	114	
In	115	96.652
Tb	159	94.799
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	104.463
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.621

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eL 10X

Sample Date/Time: Friday, September 02, 2022 09:04:47

Report Date/Time: Monday, September 05, 2022 08:13:45

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eL 10X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	280446.7	3.9				ug/L	258379	Standard
|	Cr	52	10051.5	2.1	0.3440	0.031	9.1	ug/L	6656	Standard
|	Cr	53	488.3	4.0	0.1455	0.027	18.8	ug/L	323	Standard
[>	Ge	72	178324.3	1.6				ug/L	174254	Standard
|	As	75	2894.3	2.1	0.1985	0.033	16.5	ug/L	2655	Standard
|	As-1	75	4.5	723.7	0.0236	0.035	146.1	ug/L	-18	Standard
|	Se	77	58.0	13.7	0.0752	0.118	157.2	ug/L	52	Standard
|	Se	78	3467.1	3.0	0.8396	0.332	39.6	ug/L	3219	Standard
|	Br	79	757.0	3.7				ug/L	182	Standard
|	Se	82	52.3	8.0	-0.0205	0.031	151.9	ug/L	53	Standard
|	Kr	83	45.7	10.3				ug/L	53	Standard
|	Y	89	365345.8	1.9				ug/L	364379	Standard
|	Rh	103	298382.4	2.4				ug/L	309795	Standard
|	Cd	111	229.6	7.0	0.0025	0.005	211.4	ug/L	234	Standard
|	Cd	114	47.5	24.1	-0.0005	0.002	297.3	ug/L	54	Standard
[>	In	115	390714.4	0.3				ug/L	412290	Standard
[>	Tb	159	512095.1	0.6				ug/L	555028	Standard
|	Ho	165	523881.0	0.5				ug/L	564490	Standard
|	Pb	208	701.3	1.3	-0.0049	0.000	7.6	ug/L	947	Standard
|	Bi	209	292784.3	0.7				ug/L	326405	Standard
|	Th	232	376201.1	0.4				ug/L	411068	Standard
|	Cr-1	52	194.0	5.1	0.0440	0.009	21.2	ug/L	154	KED
|	Cr-1	53	22.3	22.5	0.0596	0.050	83.3	ug/L	16	KED
[>	Ge-1	72	8137.3	1.5				ug/L	7877	KED
|	As-2	75	4.3	26.6	0.0322	0.023	72.4	ug/L	3	KED
|	Y-1	89	13713.6	1.6				ug/L	12480	KED
|	Rh-1	103	78767.3	1.8				ug/L	78958	KED
|	Cd-1	111	5.3	39.0	0.0095	0.011	112.2	ug/L	3	KED
|	Cd-1	114	4.6	53.4	-0.0039	0.005	120.2	ug/L	6	KED
[>	In-1	115	8570.1	1.9				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		108.541
|	Cr	52		
|	Cr	53		
[>	Ge	72		102.336
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: 08-291-16eL 10X

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Cd	114	
In	115	94.767
Tb	159	92.265
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.311
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.121

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eMS 2X

Sample Date/Time: Friday, September 02, 2022 09:09:21

Report Date/Time: Monday, September 05, 2022 08:13:47

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMS 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	322724.7	2.5				ug/L	258379	Standard
|	Cr	52	334706.3	1.7	34.4386	0.277	0.8	ug/L	6656	Standard
|	Cr	53	37265.9	3.6	33.6350	0.446	1.3	ug/L	323	Standard
>	Ge	72	181443.5	3.3				ug/L	174254	Standard
|	As	75	42716.1	3.7	44.0551	0.248	0.6	ug/L	2655	Standard
|	As-1	75	41999.8	3.5	43.1199	0.159	0.4	ug/L	-18	Standard
|	Se	77	2887.0	4.8	44.1724	0.719	1.6	ug/L	52	Standard
|	Se	78	12928.2	4.0	45.8678	0.600	1.3	ug/L	3219	Standard
|	Br	79	2599.9	3.1				ug/L	182	Standard
|	Se	82	4766.5	3.7	41.7092	0.543	1.3	ug/L	53	Standard
|	Kr	83	53.7	7.8				ug/L	53	Standard
|	Y	89	378521.4	1.9				ug/L	364379	Standard
|	Rh	103	300028.0	1.6				ug/L	309795	Standard
|	Cd	111	117116.3	0.4	39.7462	0.222	0.6	ug/L	234	Standard
|	Cd	114	296789.8	0.7	40.0385	0.435	1.1	ug/L	54	Standard
>	In	115	395037.1	0.6				ug/L	412290	Standard
>	Tb	159	527923.0	0.2				ug/L	555028	Standard
|	Ho	165	536199.7	0.6				ug/L	564490	Standard
|	Pb	208	1451427.1	0.3	39.7109	0.177	0.4	ug/L	947	Standard
|	Bi	209	288477.3	0.7				ug/L	326405	Standard
|	Th	232	389106.6	0.2				ug/L	411068	Standard
|	Cr-1	52	30740.4	0.4	37.8212	0.451	1.2	ug/L	154	KED
|	Cr-1	53	3759.5	2.0	37.8541	1.117	2.9	ug/L	16	KED
>	Ge-1	72	8302.1	1.4				ug/L	7877	KED
|	As-2	75	2072.8	2.3	41.5205	0.696	1.7	ug/L	3	KED
|	Y-1	89	13849.7	0.4				ug/L	12480	KED
|	Rh-1	103	77881.0	0.4				ug/L	78958	KED
|	Cd-1	111	7367.6	2.3	37.7445	0.821	2.2	ug/L	3	KED
|	Cd-1	114	19138.9	1.2	37.6776	0.454	1.2	ug/L	6	KED
>	In-1	115	8595.0	0.6				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		124.904
|	Cr	52		
|	Cr	53		
>	Ge	72		104.126
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: 08-291-16eMS 2X

Report Date/Time: Monday, September 05, 2022 08:13:47

Cd	114	
In	115	95.815
Tb	159	95.116
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	105.403
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.459

Quantitative Analysis - Summary Report

Sample ID: 08-291-16eMSD 2X

Sample Date/Time: Friday, September 02, 2022 09:13:56

Report Date/Time: Monday, September 05, 2022 08:13:48

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\08-291-16eMSD 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	324160.9	1.2				ug/L	258379	Standard
|	Cr	52	337510.1	1.2	34.5733	0.284	0.8	ug/L	6656	Standard
|	Cr	53	37297.3	1.9	33.5169	0.266	0.8	ug/L	323	Standard
[>	Ge	72	180303.8	2.4				ug/L	174254	Standard
|	As	75	42762.0	2.4	44.4076	0.032	0.1	ug/L	2655	Standard
|	As-1	75	42332.6	2.5	43.7372	0.140	0.3	ug/L	-18	Standard
|	Se	77	2916.6	3.6	44.9362	1.183	2.6	ug/L	52	Standard
|	Se	78	12967.2	1.7	46.4661	0.966	2.1	ug/L	3219	Standard
|	Br	79	2618.6	2.4				ug/L	182	Standard
|	Se	82	4912.2	1.9	43.2789	0.227	0.5	ug/L	53	Standard
|	Kr	83	51.7	6.2				ug/L	53	Standard
|	Y	89	376337.7	2.1				ug/L	364379	Standard
[	Rh	103	303803.9	3.0				ug/L	309795	Standard
|	Cd	111	117246.7	1.5	40.1043	0.205	0.5	ug/L	234	Standard
|	Cd	114	297377.8	0.7	40.4370	0.494	1.2	ug/L	54	Standard
[>	In	115	391954.3	1.7				ug/L	412290	Standard
[>	Tb	159	521432.4	0.4				ug/L	555028	Standard
|	Ho	165	534421.4	0.4				ug/L	564490	Standard
|	Pb	208	1454358.3	0.6	40.2869	0.257	0.6	ug/L	947	Standard
|	Bi	209	288993.7	1.0				ug/L	326405	Standard
|	Th	232	388848.1	0.4				ug/L	411068	Standard
[	Cr-1	52	31024.3	1.0	38.8654	0.781	2.0	ug/L	154	KED
|	Cr-1	53	3901.2	1.8	39.9970	1.097	2.7	ug/L	16	KED
[>	Ge-1	72	8155.0	1.0				ug/L	7877	KED
|	As-2	75	2142.5	1.2	43.6936	0.071	0.2	ug/L	3	KED
|	Y-1	89	14018.9	0.9				ug/L	12480	KED
|	Rh-1	103	78080.5	0.8				ug/L	78958	KED
[	Cd-1	111	7360.6	2.2	37.7680	1.555	4.1	ug/L	3	KED
|	Cd-1	114	19515.8	1.2	38.4683	0.856	2.2	ug/L	6	KED
[>	In-1	115	8586.7	2.4				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		125.460
|	Cr	52		
|	Cr	53		
[>	Ge	72		103.472
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
[Rh	103		
	Cd	111		

Sample ID: 08-291-16eMSD 2X

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Cd	114	
In	115	95.068
Tb	159	93.947
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	103.536
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	116.346

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, September 02, 2022 09:18:32

Report Date/Time: Monday, September 05, 2022 08:13:50

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 6.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	286837.5	2.1				ug/L	258379	Standard
|	Cr	52	335339.3	2.4	38.9258	0.204	0.5	ug/L	6656	Standard
|	Cr	53	37551.3	1.5	38.1940	0.552	1.4	ug/L	323	Standard
[>	Ge	72	186928.9	1.7				ug/L	174254	Standard
|	As	75	42182.7	2.3	42.1030	0.437	1.0	ug/L	2655	Standard
|	As-1	75	41515.4	2.4	41.3716	0.382	0.9	ug/L	-18	Standard
|	Se	77	2858.3	3.1	42.4305	1.066	2.5	ug/L	52	Standard
|	Se	78	12677.0	3.2	42.8849	1.297	3.0	ug/L	3219	Standard
|	Br	79	224.0	4.7				ug/L	182	Standard
|	Se	82	4689.8	3.5	39.8062	0.843	2.1	ug/L	53	Standard
|	Kr	83	46.3	22.7				ug/L	53	Standard
|	Y	89	381348.6	2.0				ug/L	364379	Standard
|	Rh	103	317857.9	2.1				ug/L	309795	Standard
|	Cd	111	123769.8	0.3	40.3996	0.023	0.1	ug/L	234	Standard
|	Cd	114	310843.1	0.6	40.3301	0.171	0.4	ug/L	54	Standard
[>	In	115	410734.1	0.3				ug/L	412290	Standard
[>	Tb	159	543021.8	0.4				ug/L	555028	Standard
|	Ho	165	556946.9	1.1				ug/L	564490	Standard
|	Pb	208	1566657.1	0.4	41.6728	0.053	0.1	ug/L	947	Standard
|	Bi	209	314867.6	0.9				ug/L	326405	Standard
|	Th	232	399084.3	0.2				ug/L	411068	Standard
|	Cr-1	52	31974.4	1.4	37.6261	0.740	2.0	ug/L	154	KED
|	Cr-1	53	3983.2	1.7	38.3598	0.916	2.4	ug/L	16	KED
[>	Ge-1	72	8679.6	0.7				ug/L	7877	KED
|	As-2	75	2097.2	3.2	40.1793	1.245	3.1	ug/L	3	KED
|	Y-1	89	14664.2	1.2				ug/L	12480	KED
|	Rh-1	103	84298.0	0.9				ug/L	78958	KED
|	Cd-1	111	7853.2	0.8	37.9222	0.449	1.2	ug/L	3	KED
|	Cd-1	114	20542.0	1.6	38.1181	0.774	2.0	ug/L	6	KED
[>	In-1	115	9119.0	0.5				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		111.014
|	Cr	52	97.314	
|	Cr	53	95.485	
[>	Ge	72		107.274
|	As	75	105.257	
|	As-1	75	103.429	
|	Se	77	106.076	
	Se	78	107.212	
	Br	79		
	Se	82	99.515	
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111	100.999	

Sample ID: QC Std 6

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Cd	114	100.825	
In	115		99.623
Tb	159		97.837
Ho	165		
Pb	208	104.182	
Bi	209		
Th	232		
Cr-1	52	94.065	
Cr-1	53	95.900	
Ge-1	72		110.197
As-2	75	100.448	
Y-1	89		
Rh-1	103		
Cd-1	111	94.806	
Cd-1	114	95.295	
In-1	115		123.559

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, September 02, 2022 09:30:04

Report Date/Time: Monday, September 05, 2022 08:13:53

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 7.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
[>	Sc	45	281198.7	2.1				ug/L	258379	Standard
|	Cr	52	169214.6	2.3	19.6110	0.025	0.1	ug/L	6656	Standard
|	Cr	53	18968.6	1.8	19.5001	0.074	0.4	ug/L	323	Standard
[>	Ge	72	183278.0	3.3				ug/L	174254	Standard
|	As	75	21954.1	3.9	20.9179	0.345	1.7	ug/L	2655	Standard
|	As-1	75	20107.8	3.1	20.4492	0.146	0.7	ug/L	-18	Standard
|	Se	77	1441.4	1.9	21.4205	0.308	1.4	ug/L	52	Standard
|	Se	78	7999.9	3.3	21.8862	0.712	3.3	ug/L	3219	Standard
|	Br	79	191.7	4.4				ug/L	182	Standard
|	Se	82	2311.9	0.9	19.7859	0.636	3.2	ug/L	53	Standard
|	Kr	83	45.3	7.7				ug/L	53	Standard
|	Y	89	373644.0	2.1				ug/L	364379	Standard
|	Rh	103	305933.6	2.9				ug/L	309795	Standard
|	Cd	111	59914.0	1.6	20.2689	0.236	1.2	ug/L	234	Standard
|	Cd	114	150753.3	1.2	20.3069	0.174	0.9	ug/L	54	Standard
[>	In	115	395555.6	1.1				ug/L	412290	Standard
[>	Tb	159	521558.0	0.6				ug/L	555028	Standard
|	Ho	165	533053.3	0.7				ug/L	564490	Standard
|	Pb	208	754021.0	0.7	20.8700	0.071	0.3	ug/L	947	Standard
|	Bi	209	301287.7	0.7				ug/L	326405	Standard
|	Th	232	386610.6	0.4				ug/L	411068	Standard
|	Cr-1	52	15980.9	0.5	18.4330	0.318	1.7	ug/L	154	KED
|	Cr-1	53	1961.1	1.0	18.5251	0.245	1.3	ug/L	16	KED
[>	Ge-1	72	8807.0	1.3				ug/L	7877	KED
|	As-2	75	1042.7	1.0	19.6615	0.288	1.5	ug/L	3	KED
|	Y-1	89	14734.6	0.9				ug/L	12480	KED
|	Rh-1	103	83258.6	1.4				ug/L	78958	KED
|	Cd-1	111	3876.2	2.2	18.4343	0.242	1.3	ug/L	3	KED
|	Cd-1	114	10028.1	0.4	18.3308	0.143	0.8	ug/L	6	KED
[>	In-1	115	9253.7	1.2				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
[>	Sc	45		108.832
|	Cr	52		
|	Cr	53		
[>	Ge	72		105.179
|	As	75		
|	As-1	75		
|	Se	77		
|	Se	78		
|	Br	79		
|	Se	82		
|	Kr	83		
|	Y	89		
|	Rh	103		
|	Cd	111		

Sample ID: QC Std 7

Report Date/Time: Monday, September 05, 2022 08:13:53

Cd	114	
In	115	95.941
Tb	159	93.970
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	111.814
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	125.384

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, September 02, 2022 09:34:38

Report Date/Time: Monday, September 05, 2022 08:13:55

Method File: C:\NexIONData_kmckinney\Method\X220902A2.mth

Dataset File: C:\NexIONData_kmckinney\DataSet\X220902A\QC Std 8.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
>	Sc	45	264625.8	1.5				ug/L	258379	Standard
|	Cr	52	7140.8	2.4	0.0417	0.013	31.7	ug/L	6656	Standard
|	Cr	53	426.7	4.3	0.1071	0.021	19.8	ug/L	323	Standard
>	Ge	72	174092.6	1.9				ug/L	174254	Standard
|	As	75	2931.1	6.1	0.3180	0.141	44.2	ug/L	2655	Standard
|	As-1	75	25.7	90.4	0.0460	0.024	52.5	ug/L	-18	Standard
|	Se	77	53.7	19.6	0.0275	0.169	614.2	ug/L	52	Standard
|	Se	78	3486.8	5.1	1.3431	0.552	41.1	ug/L	3219	Standard
|	Br	79	170.3	9.9				ug/L	182	Standard
|	Se	82	53.0	12.4	-0.0024	0.063	2581.7	ug/L	53	Standard
|	Kr	83	43.3	9.6				ug/L	53	Standard
|	Y	89	351703.9	1.7				ug/L	364379	Standard
|	Rh	103	293763.3	1.9				ug/L	309795	Standard
|	Cd	111	221.3	2.7	0.0010	0.002	214.4	ug/L	234	Standard
|	Cd	114	49.6	8.0	-0.0001	0.001	507.9	ug/L	54	Standard
>	In	115	383977.3	0.2				ug/L	412290	Standard
>	Tb	159	501513.5	0.8				ug/L	555028	Standard
|	Ho	165	513931.5	0.3				ug/L	564490	Standard
|	Pb	208	878.7	1.4	0.0007	0.000	65.9	ug/L	947	Standard
|	Bi	209	293768.1	0.5				ug/L	326405	Standard
|	Th	232	371203.6	0.5				ug/L	411068	Standard
|	Cr-1	52	149.0	7.1	-0.0188	0.014	74.4	ug/L	154	KED
|	Cr-1	53	20.3	10.2	0.0324	0.020	61.3	ug/L	16	KED
>	Ge-1	72	8409.5	0.7				ug/L	7877	KED
|	As-2	75	1.0	100.0	-0.0365	0.020	54.2	ug/L	3	KED
|	Y-1	89	14138.7	1.4				ug/L	12480	KED
|	Rh-1	103	80360.1	0.3				ug/L	78958	KED
|	Cd-1	111	2.3	99.0	-0.0064	0.011	177.4	ug/L	3	KED
|	Cd-1	114	5.0	39.7	-0.0035	0.004	109.3	ug/L	6	KED
>	In-1	115	9026.8	1.0				ug/L	7380	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
>	Sc	45		102.418
|	Cr	52		
|	Cr	53		
>	Ge	72		99.907
	As	75		
	As-1	75		
	Se	77		
	Se	78		
	Br	79		
	Se	82		
	Kr	83		
	Y	89		
	Rh	103		
	Cd	111		

Sample ID: QC Std 8

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Cd	114	
In	115	93.133
Tb	159	90.358
Ho	165	
Pb	208	
Bi	209	
Th	232	
Cr-1	52	
Cr-1	53	
Ge-1	72	106.767
As-2	75	
Y-1	89	
Rh-1	103	
Cd-1	111	
Cd-1	114	
In-1	115	122.309

Dissolved Methane
RSK 175 Data

Sequence Name: E:\1\SEQUENCE\L220830.S

Comment:

Operator: MB

Data Path: e:\1\DATA\L220830\

Pre-Seq Cmd:

Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
(X) Full Method (X) Inject Anyway
() Reprocessing Only () Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	0801001	L220624	CCV0830DG-L1
2	Sample	2	0801002	L220624	MB0830W1
3	Sample	3	0801003	L220624	SB0830W1
4	Sample	4	0801004	L220624	SB0830W1 DUP
5	Sample	5	0801005	L220624	08-268-01
6	Sample	6	0801006	L220624	08-268-01 100X
7	Sample	7	0801007	L220624	08-268-02
8	Sample	8	0801008	L220624	08-268-02 100X
9	Sample	9	0801009	L220624	08-268-03
10	Sample	10	0801010	L220624	08-268-03 4X
11	Sample	11	0801011	L220624	08-268-04
12	Sample	12	0801012	L220624	08-268-04 4X
13	Sample	13	0801013	L220624	08-268-05
14	Sample	14	0801014	L220624	08-268-05 5X
15	Sample	15	0801015	L220624	08-268-06
16	Sample	16	0801016	L220624	08-268-06 10X
17	Sample	17	0801017	L220624	08-268-07
18	Sample	18	0801018	L220624	08-268-07 10X
19	Sample	19	0801019	L220624	08-268-08
20	Sample	20	0801020	L220624	08-268-08 10X
21	Sample	21	0801021	L220624	08-268-09
22	Sample	22	0801022	L220624	08-268-09 5X
23	Sample	23	0801023	L220624	CCV0830DG-L2

Data File: E:\1\DATA\L220830\0801001.D
Acq On : 30 Aug 2022 8:33
Sample : CCV0830DG-L1
Misc : DG1-004-04
IntFile : autoint1.e

Vial: 1 Page 1
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Aug 30 8:54 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Initial Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :

Page 1
MB
LUCY
1.00
1.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1954935	476.008 ppm
2) Ethane	0.85	4094346	467.739 ppm
3) Ethene	1.08	4279046	467.446 ppm
4) Acetylene	3.28	4157652	466.200 PPM m
5) 1-Butene	4.49	7772361	467.100 ppm

MB 8/30/22

Data File : E:\1\DATA\L220830\0801002.D
Acq On : 30 Aug 2022 9:03
Sample : MB0830W1
Misc :

Vial: 2
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 11:03 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)

Title : Gases

Last Update : Thu Apr 21 14:00:45 2022

Response via : Initial Calibration

DataAcq Meth : L220624.M

Volume Inj :

Signal Phase :

Signal Info :

Page 1
Vial: 2
Operator: LUCY
Multiplr: 1.00
Sample Amount: 1.00

Compound	R.T.	Response	Conc Units

Target Compounds			MB 8130122
1) Methane	0.00	0	N.D. ppm d
2) Ethane	0.89	1280	N.D. ppm
3) Ethene	0.00	0	N.D. ppm d
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.49	8191365	492.290 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801002.D
Acq On : 30 Aug 2022 9:03
Sample : MB0830W1
Misc :

Vial: 2
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

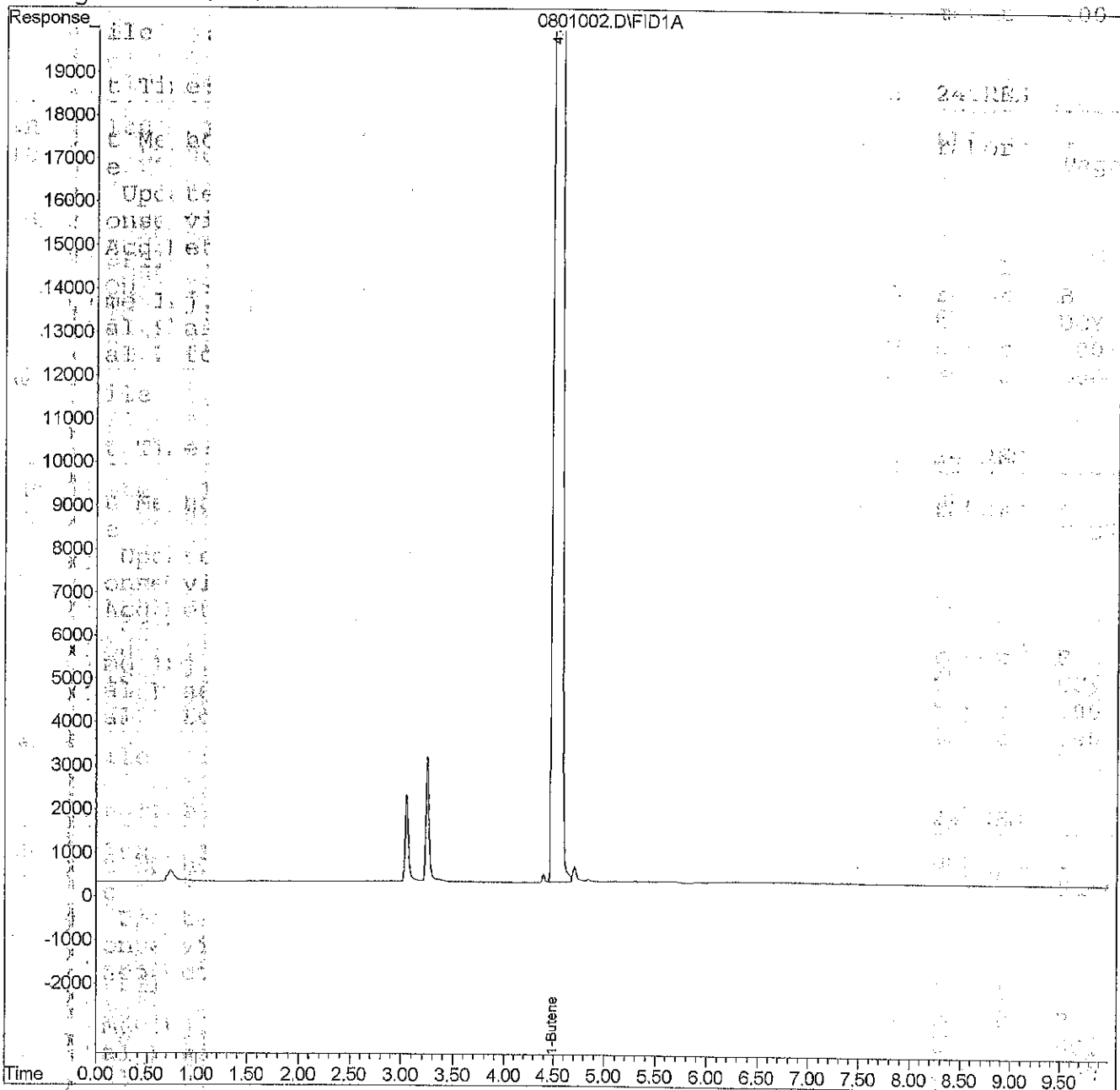
IntFile : autoint1.e

Quant Time: Aug 30 11:03 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :

24-RES
MB
LUCY
1.00
0.00



Data File : E:\1\DATA\L220830\0801003.D
 Acq On : 30 Aug 2022 10:03
 Sample : SB0830W1
 Misc :

Vial: 3
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 10:10 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

Page 1
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 1.00
 1.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.70	1445120	351.259 ppm
2) Ethane	0.85	2839670	324.275 ppm
3) Ethene	1.09	2114330	230.924 ppm
4) Acetylene	3.33	448624	50.347 PPM m
5) 1-Butene	4.50	3840138	230.697 ppm

MB 8/30/22

Quantitation Report

Data File : E:\1\DATA\L220830\0801003.D
Acq On : 30 Aug 2022 10:03
Sample : SB0830W1
Misc :

Vial: 3
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

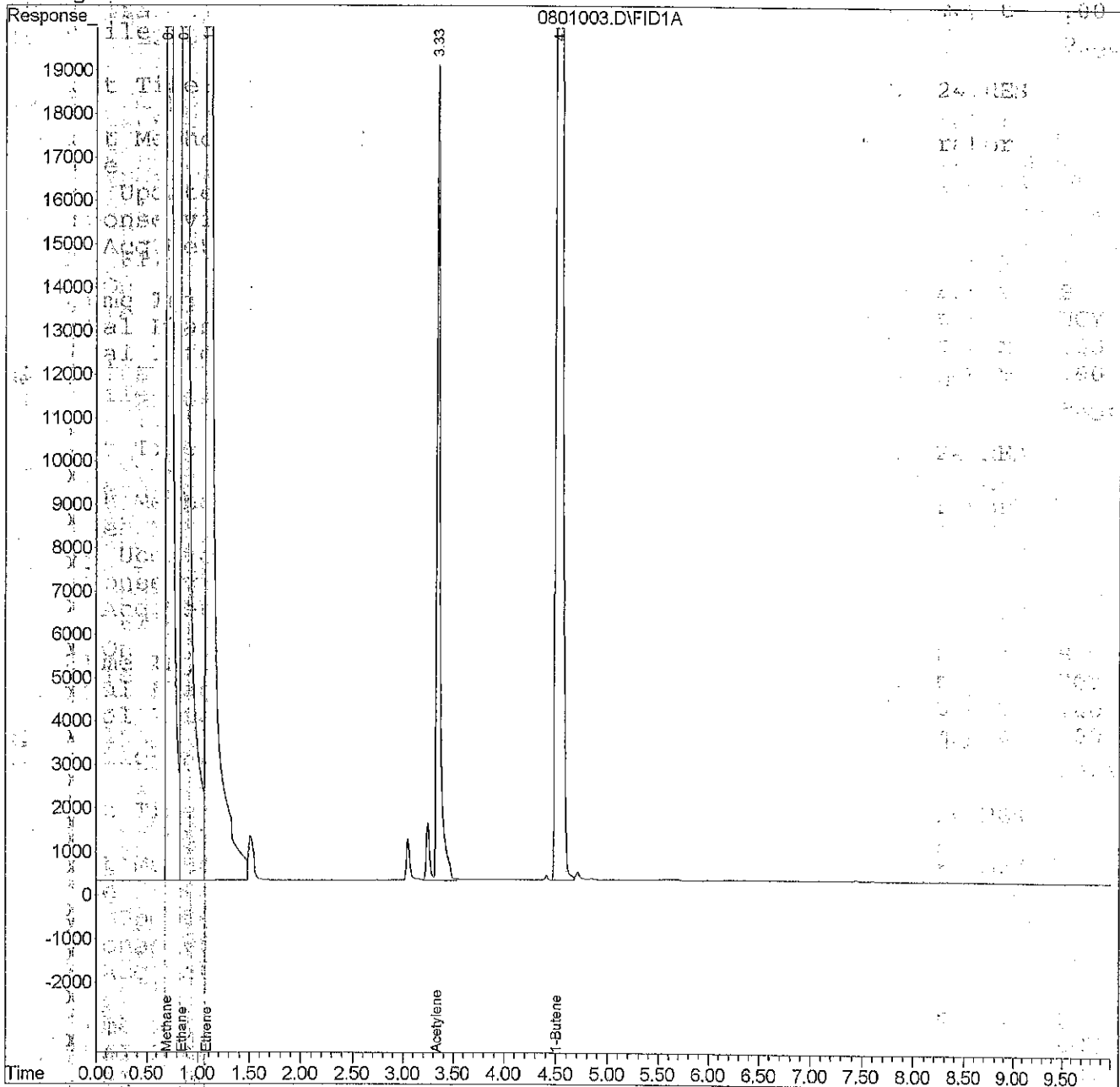
IntFile : autoint1.e

Quant Time: Aug 30 10:10 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj. :
Signal Phase :
Signal Info :

1.00
0.00
1.00
1.00



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220830\0801004.D
 Acq On : 30 Aug 2022 10:18
 Sample : SB0830W1 DUP
 Misc :

Vial: 4
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 10:25 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

Vial :
 Operator : MB
 Inst : LUCY
 Multiplr : 1.00
 Sample Amount : 0.00

Compound	R.T.	Response	Conc Units

Target Compounds			MB 8/30/22
1) Methane	0.70	1414835	343.849 ppm
2) Ethane	0.84	2795651	319.242 ppm
3) Ethene	1.08	2085292	227.751 ppm
4) Acetylene	3.34	428843	48.129 PPM m
5) 1-Butene	4.51	3780855	227.133 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801004.D

Vial: 4

Acq On : 30 Aug 2022 10:18

Operator: MB

Sample : SB0830W1 DUP

Inst : LUCY

Misc :

Multiplr: 1.00

Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 10:25 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)

Title : Gases

Last Update : Thu Apr 21 14:00:45 2022

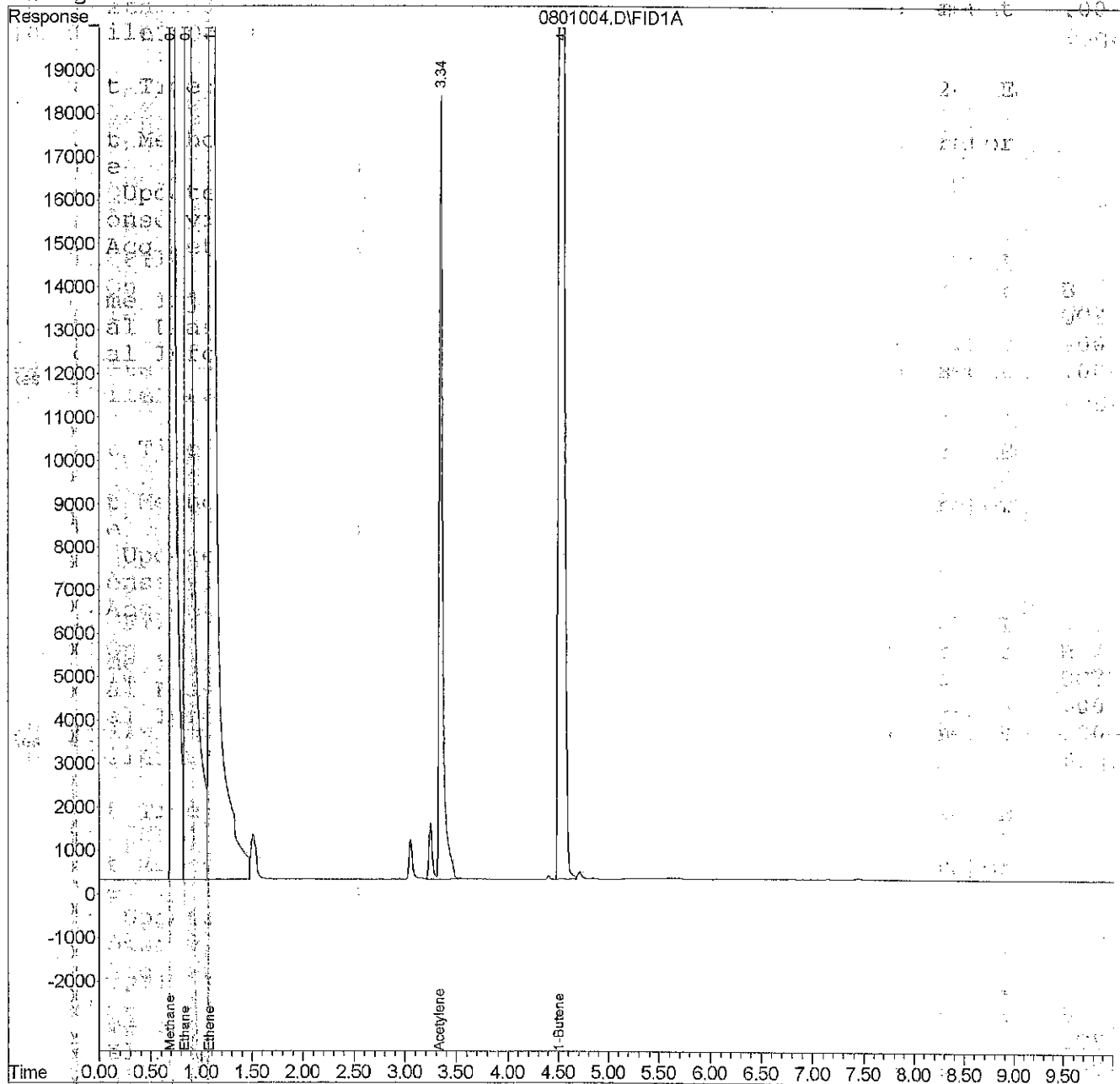
Response via : Multiple Level Calibration

DataAcq Meth : L220624.M

Volume Inj :

Signal Phase :

Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220830\0801006.D
 Acq On : 30 Aug 2022 11:34
 Sample : 08-268-01 100X
 Misc :

Vial: 6
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 12:47 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Methane	0.69	2674233	652.017 ppm
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm d
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.52	43672	2.456 ppm m

MB 8/30/22

Quantitation Report

Data File : E:\1\DATA\L220830\0801006.D
Acq On : 30 Aug 2022 11:34
Sample : 08-268-01 100X
Misc :

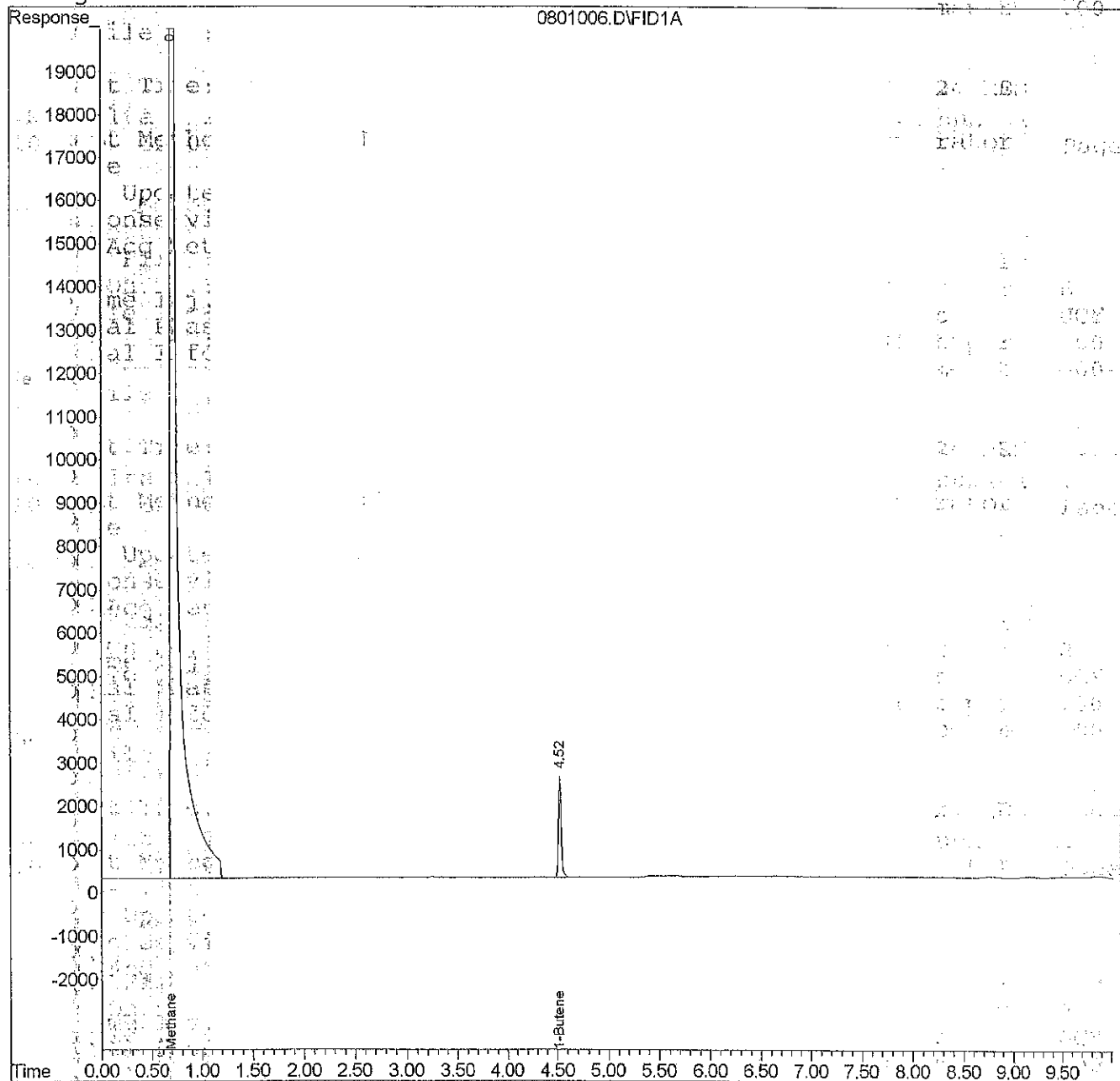
Vial: 6
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 12:47 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :



Quantitation Report

Data File : E:\1\DATA\L220830\0801008.D
Acq On : 30 Aug 2022 12:34
Sample : 08-268-02 100X
Misc :

Vial: 8
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

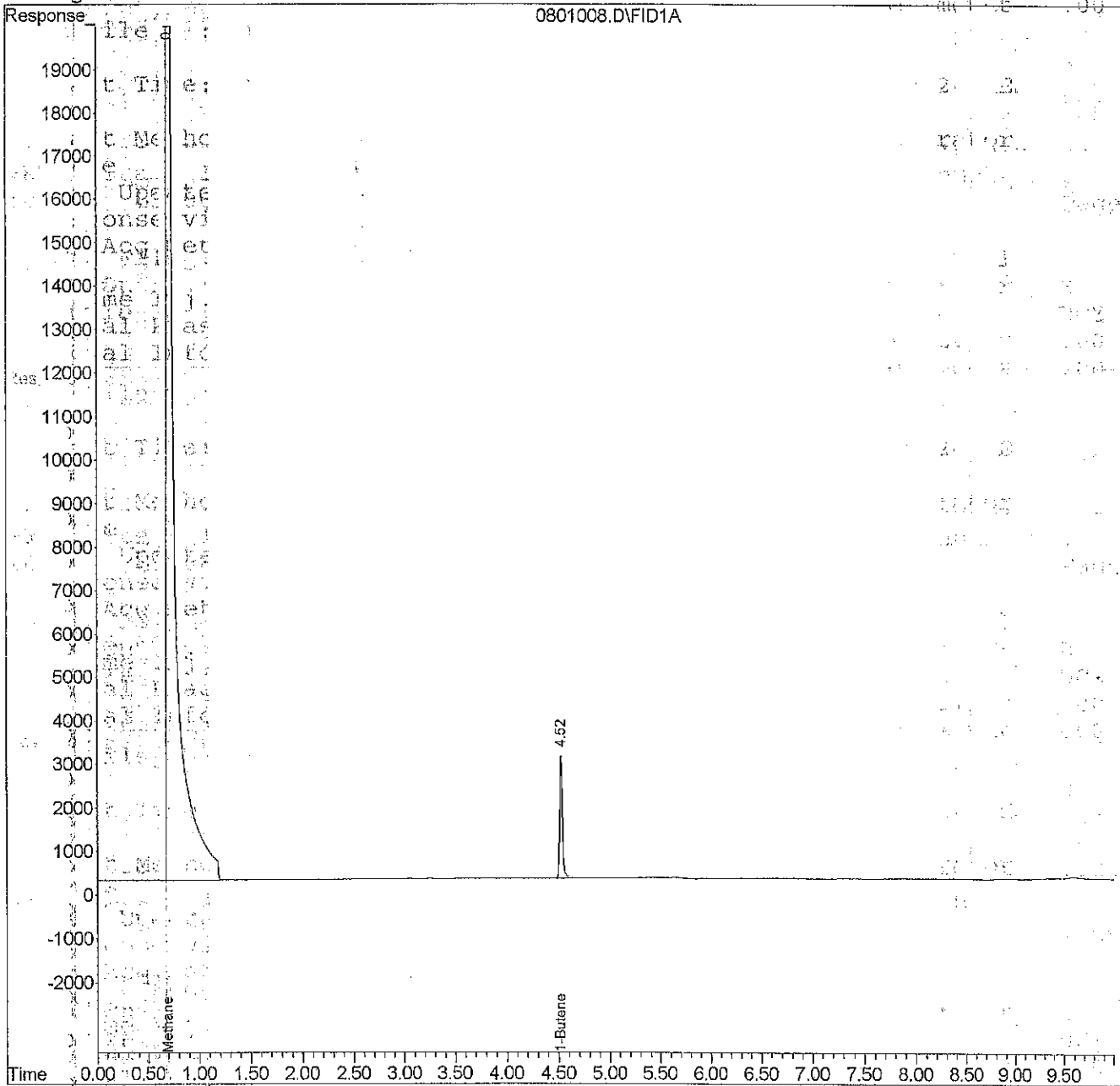
IntFile : autoint1.e

Quant Time: Aug 30 12:55 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj. :
Signal Phase :
Signal Info :

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1
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Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220830\0801010.D
 Acq On : 30 Aug 2022 13:19
 Sample : 08-268-03 4X
 Misc :

Vial: 10
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 15:39 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj. :
 Signal Phase :
 Signal Info :

MB 8/30/22
 LUCY
 1.00
 0.00

Compound	R.T.	Response	Conc Units

Target Compounds			MB 8/30/22
1) Methane	0.69	2736193	667.178 ppm m
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.50	1720265	103.252 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801010.D
Acq On : 30 Aug 2022 13:19
Sample : 08-268-03 4X
Misc :

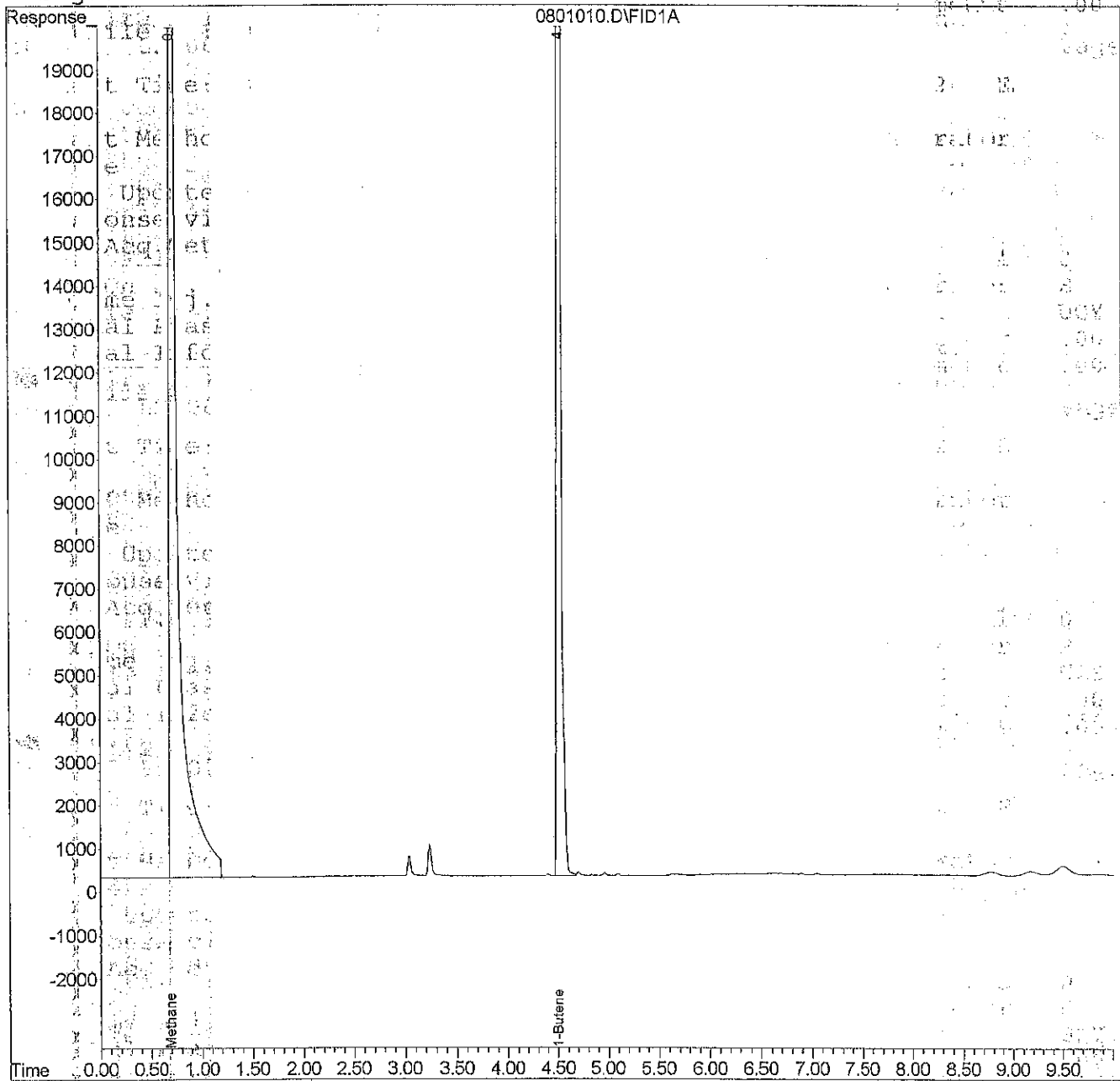
Vial: 10
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 15:39 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220830\0801012.D
 Acq On : 30 Aug 2022 13:34
 Sample : 08-268-04 4X
 Misc :

Vial: 12
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 15:42 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)

Title : Gases

Last Update : Thu Apr 21 14:00:45 2022

Response via : Initial Calibration

DataAcq Meth : L220624.M

Volume Inj :

Signal Phase :

Signal Info :

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Compound	R.T.	Response	Conc Units

Target Compounds			MB 8/30/22
1) Methane	0.69	1996663	486.219 ppm
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.51	1687754	101.297 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801012.D
 Acq On : 30 Aug 2022 13:34
 Sample : 08-268-04 4X
 Misc :

Vial: 12
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

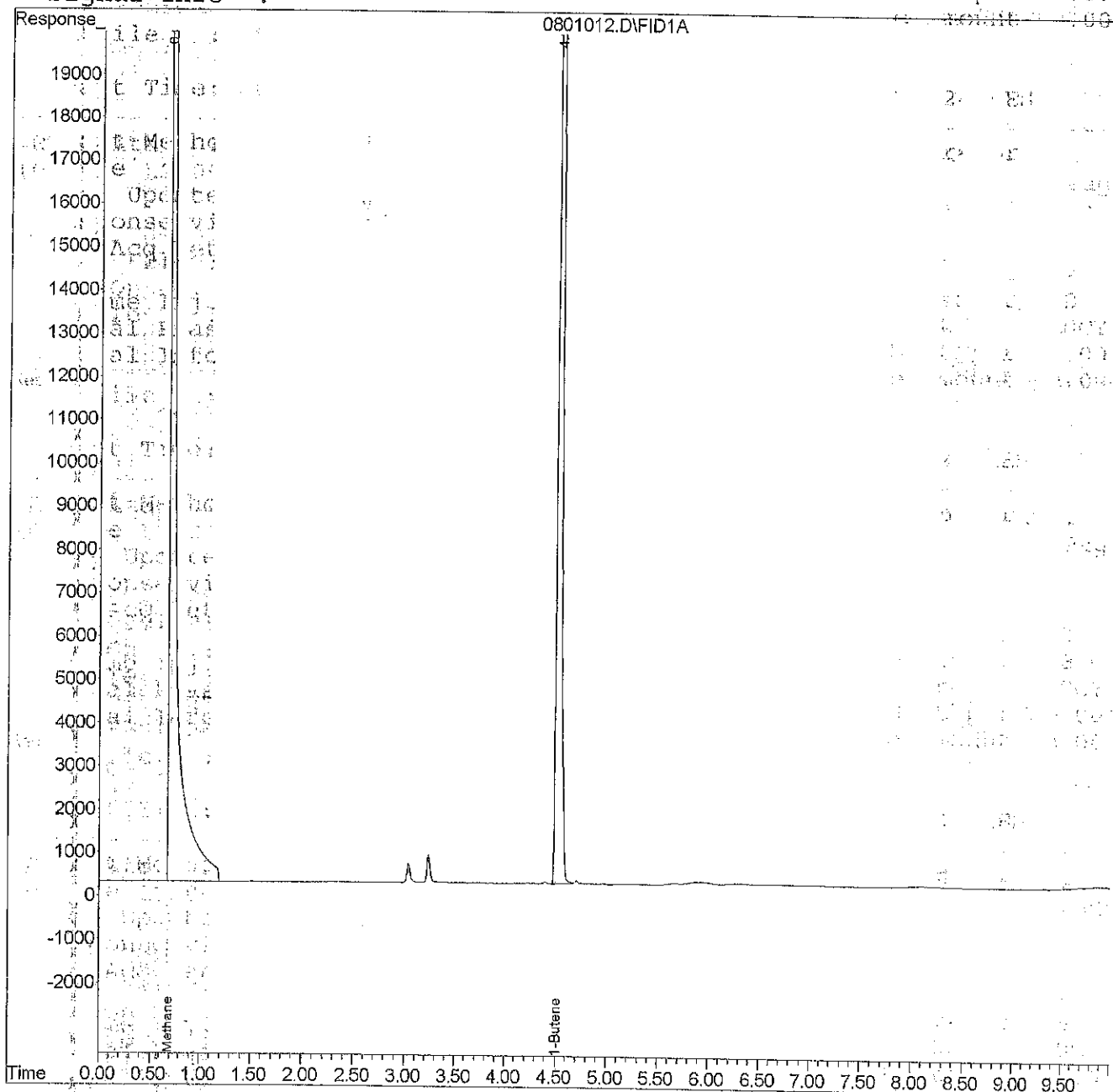
IntFile : autoint1.e

Quant Time: Aug 30 15:42 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

2
 B
 UCY
 1.00
 1.00



Quantitation Report

(QT Reviewed)

Data File : E:\1\DATA\L220830\0801014.D
 Acq On: 30 Aug 2022 14:34
 Sample : 08-268-05 5X
 Misc :

Vial: 14
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 15:47 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

MB 8130122
 LUCY
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Compound	R.T.	Response	Conc Units
1) Methane	0.69	2826445	689.262 ppm
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.51	1176723	70.575 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801014.D
Acq On : 30 Aug 2022 14:34
Sample : 08-268-05 5X
Misc :

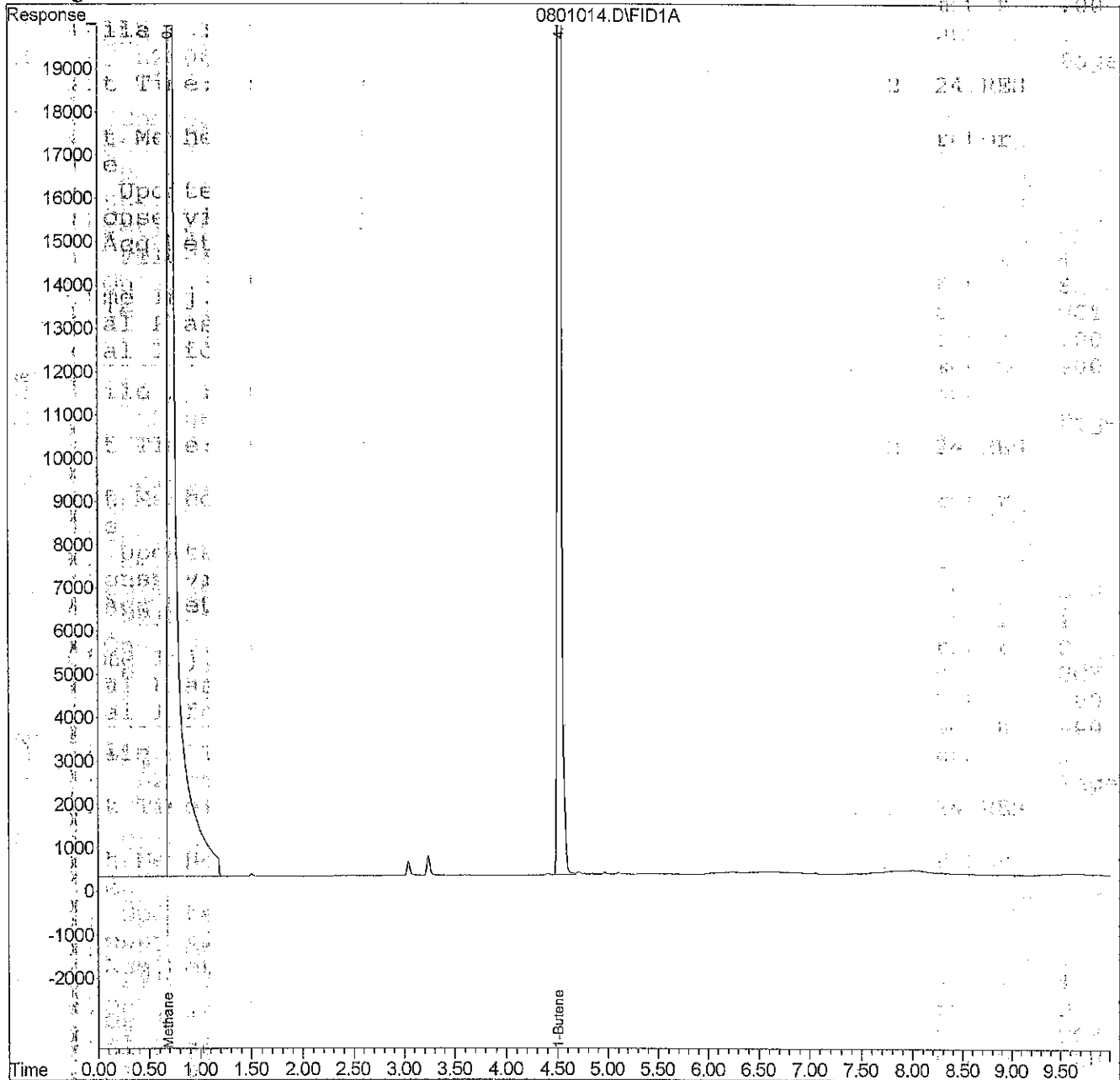
Vial: 14
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 15:47 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220830\0801016.D
Acq On : 30 Aug 2022 15:04
Sample : 08-268-06 10X
Misc :

Vial: 16
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 15:50 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Initial Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :

Operator MB
Inst LUCY
Multiplr 1.00
Sample Amount 0.00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	3369396	822.120 ppm
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.52	684693	40.994 ppm

MB 8/30/22

Quantitation Report

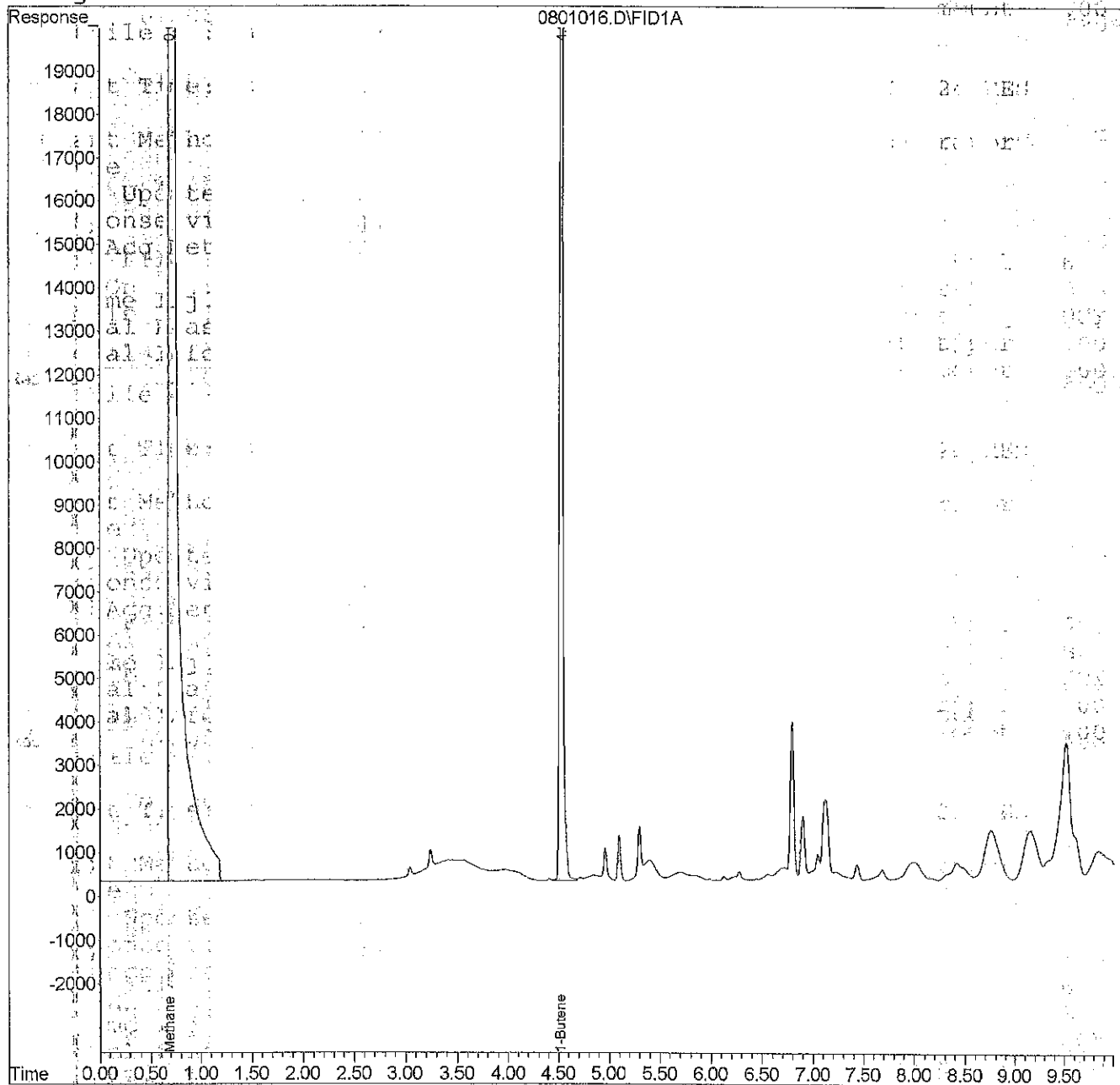
Data File : E:\1\DATA\L220830\0801016.D
Acq On : 30 Aug 2022 15:04
Sample : 08-268-06 10X
Misc :
IntFile : autoint1.e

Vial: 16
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

Quant Time: Aug 30 15:50 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :



Data File : E:\1\DATA\L220830\0801018.D
 Acq On 30 Aug 2022 15:34
 Sample : 08-268-07 10X
 Misc :

Vial: 18
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 16:07 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

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Compound	R.T.	Response	Conc Units

Target Compounds			MB 8/30/22
1) Methane	0.67	3390244	827.221 ppm m
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	3.23	4191	0.517 PPM m
5) 1-Butene	4.51	701840	42.025 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801018.D
Acq On : 30 Aug 2022 15:34
Sample : 08-268-07 10X
Misc :

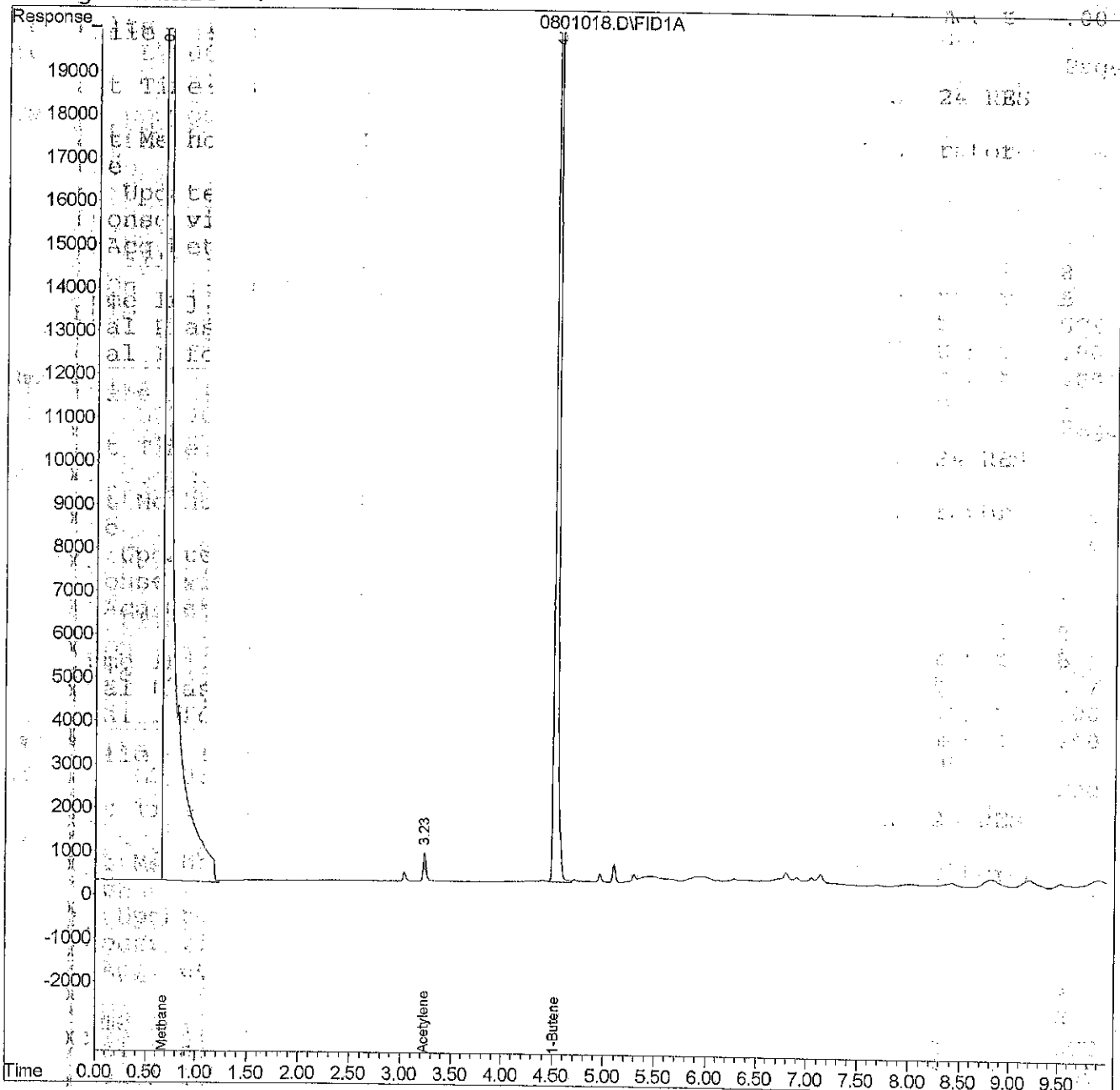
Vial: 18
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 16:07 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :



Data File: E:\1\DATA\L220830\0801020.D
Acq On : 30 Aug 2022 16:04
Sample : 08-268-08 10X
Misc :

Vial: 20
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 16:57 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Initial Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :

Page
B
UCY
1.00
1.00

Compound	R.T.	Response	Conc Units
1) Methane	0.69	2804218	683.824 ppm
2) Ethane	0.00	0	N.D. ppm
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	0.00	0	N.D. PPM
5) 1-Butene	4.52	672540	40.263 ppm

MB 8/30/22

Quantitation Report

Data File : E:\1\DATA\L220830\0801020.D
 Acq On : 30 Aug 2022 16:04
 Sample : 08-268-08 10X
 Misc :

Vial: 20
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

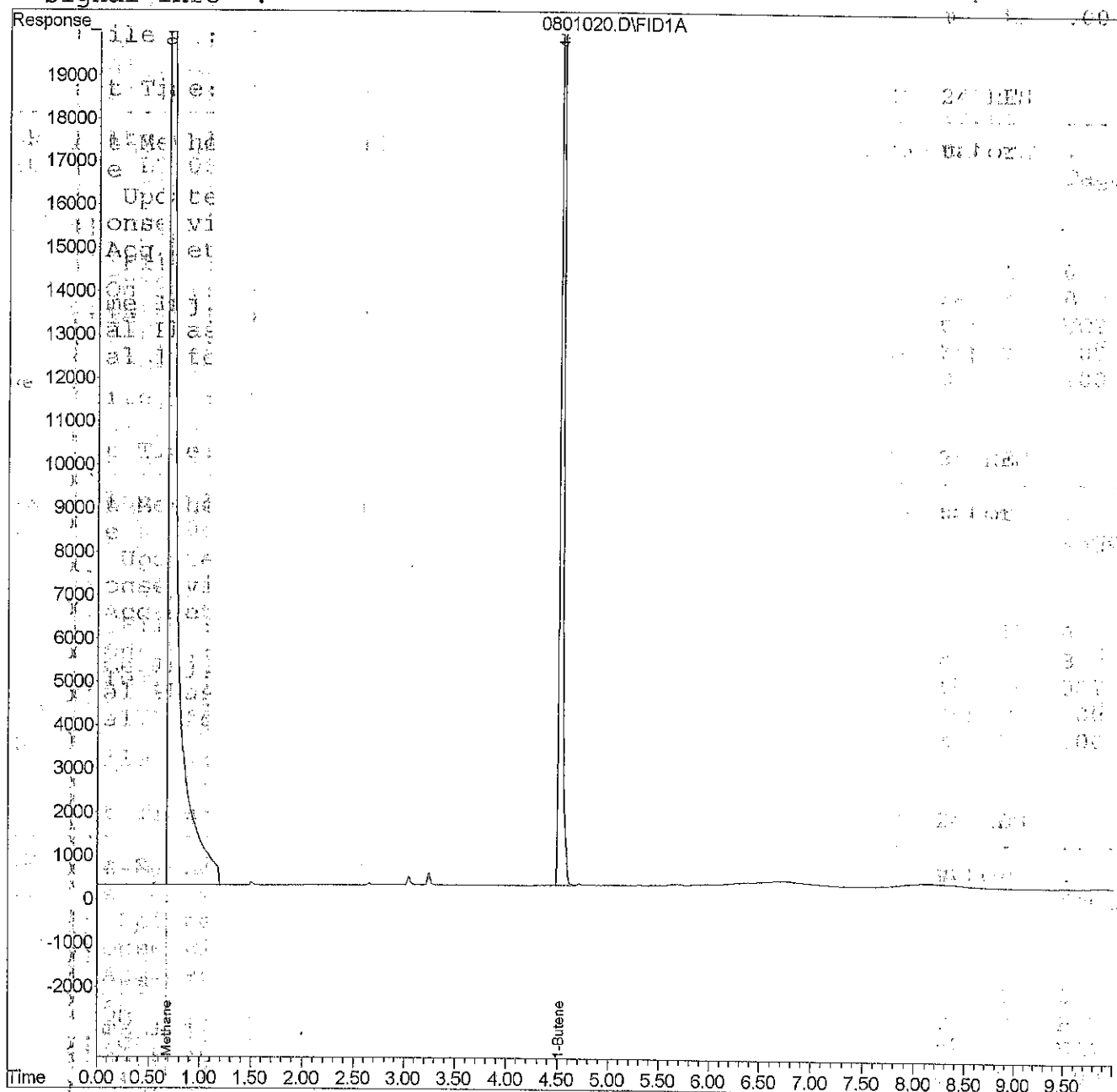
IntFile : autoint1.e

Quant Time: Aug 30 16:57 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Multiple Level Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

1 0
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Data File : E:\1\DATA\L220830\0801022.D
 Acq On : 30 Aug 2022 16:34
 Sample : 08-268-09 5X
 Misc :

Vial: 22
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 17:03 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

Page 1
 MB
 LUCY
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Compound	R.T.	Response	Conc Units

Target Compounds			MB 813012
1) Methane	0.69	2992820	729.974 ppm
2) Ethane	0.00	0	N.D. ppm d
3) Ethene	0.00	0	N.D. ppm
4) Acetylene	0.00	0	N.D. PPM d
5) 1-Butene	4.51	1409575	84.573 ppm

Quantitation Report

Data File : E:\1\DATA\L220830\0801022.D
Acq On : 30 Aug 2022 16:34
Sample : 08-268-09 5X
Misc :

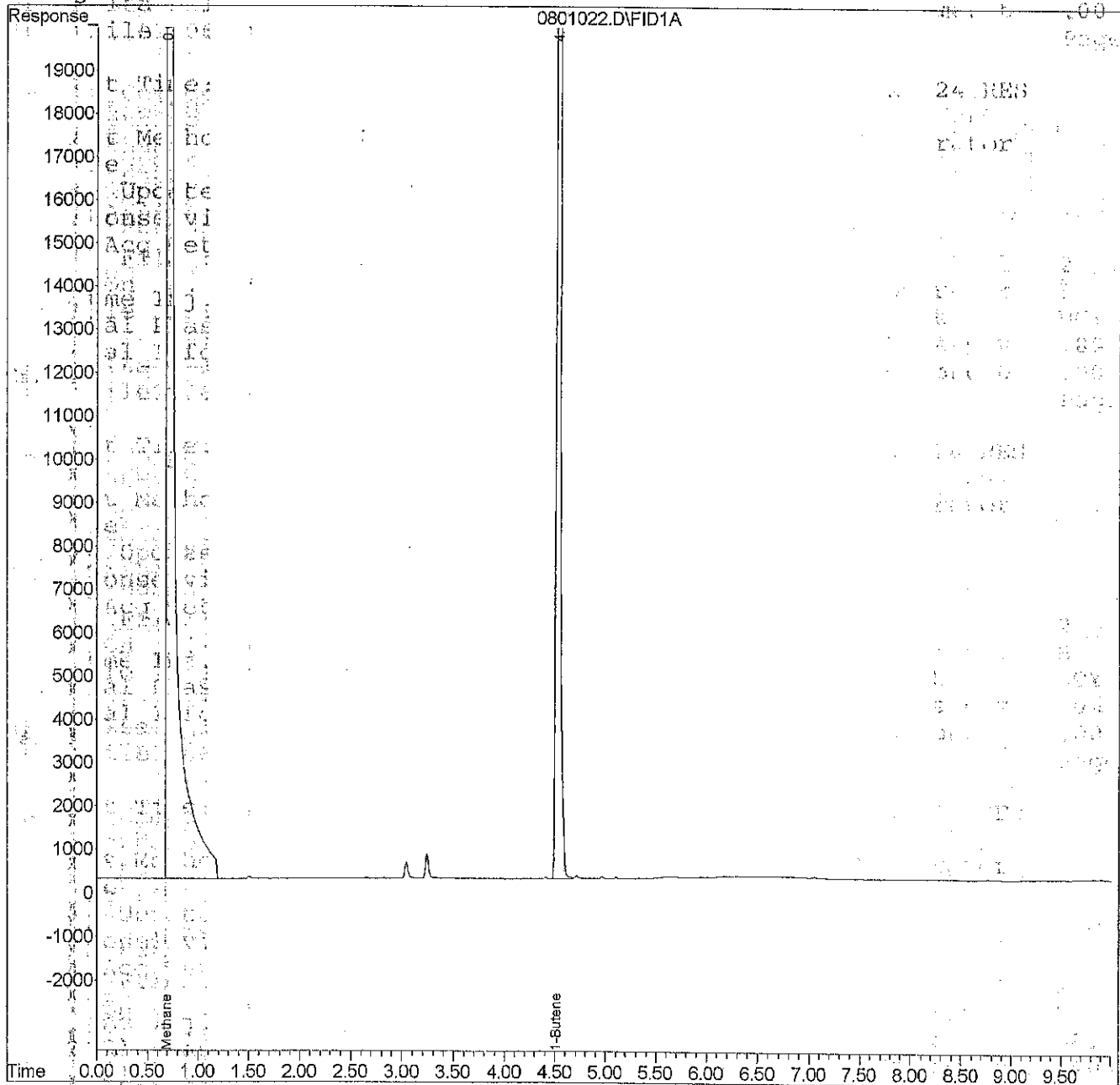
Vial: 22
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

IntFile 0: autoint1.e

Quant Time: Aug 30 17:03 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\L220830\0801023.D
 Acq On 30 Aug 2022 16:49
 Sample : CCV0830DG-L2
 Misc :

Vial: 23
 Operator: MB
 Inst : LUCY
 Multiplr: 1.00
 Sample Amount: 0.00

IntFile : autoint1.e

Quant Time: Aug 30 17:04 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
 Title : Gases
 Last Update : Thu Apr 21 14:00:45 2022
 Response via : Initial Calibration
 DataAcq Meth : L220624.M

Volume Inj :
 Signal Phase :
 Signal Info :

WGC
 3
 rator Page
 UCY
 1.00
 .00

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Methane	0.69	1910090	465.035 ppm
2) Ethane	0.84	4024446	459.746 ppm
3) Ethene	1.08	4198660	458.663 ppm
4) Acetylene	3.30	4050101	454.141 PPM m
5) 1-Butene	4.49	7583574	455.750 ppm

MB 8/30/22

Quantitation Report

Data File : E:\1\DATA\L220830\0801023.D
Acq On : 30 Aug 2022 16:49
Sample : CCV0830DG-L2
Misc :

Vial: 23
Operator: MB
Inst : LUCY
Multiplr: 1.00
Sample Amount: 0.00

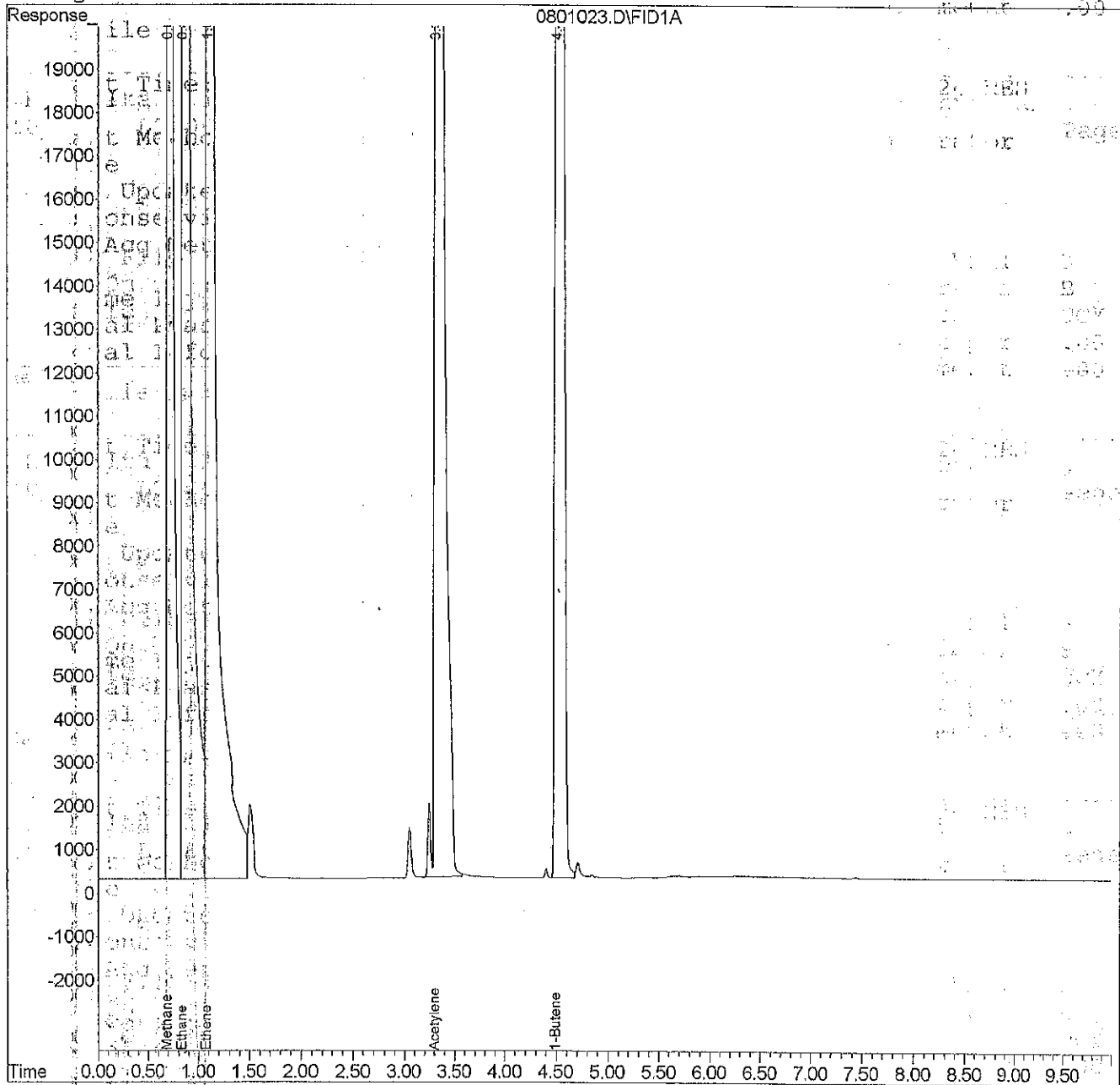
IntFile : autoint1.e

Quant Time: Aug 30 17:04 2022 Quant Results File: L220624.RES

Quant Method : E:\1\METHODS\L220624.M (Chemstation Integrator)
Title : Gases
Last Update : Thu Apr 21 14:00:45 2022
Response via : Multiple Level Calibration
DataAcq Meth : L220624.M

Volume Inj :
Signal Phase :
Signal Info :

1 3
B
UCY
1.00
1.00



Alkalinity
SM 2320B Data

Alkalinity
Method SM2320 B

Date Analyzed: 8/29/22
 Analyst: KS
 Titrant Lot #: 22140114

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 0829 W1	0.02	50			0.05	
SB 0829 W1		25			2.4 - 0.05 = 2.35	Spike ID = WC1 - 48 - 04
08-247-01					5.2 - 2.4 = 2.8	refill
-01 DUP					2.8	↓
-02					5.15 - 2.8 = 2.35	refill
-03					3.05	↓
-04					5.3 - 3.05 = 2.25	refill
-05					2.25 2.3	↓
-06					6.75 - 2.3 = 4.45	refill
-07					2.25	↓ refill
-08					0.55	↓
-09					3.4 - 0.55 = 2.85	
-10					5.6 - 3.4 = 2.2	refill
08-268-01					8.45	↓ refill
-02					10 + 1.35 = 11.35	↓
-03					8.8 - 1.35 = 7.45	refill
-04					4.55	↓
-05					6.7 - 4.55 = 2.15	refill ↓
-06					4.55	
-07					10 - 4.55 =	5.45 + 0.45 = 5.90
-08					4.1 - 0.45 =	3.65
-09					10 - 4.1 =	5.9 + 0.75 = 6.65

Alkalinity
Method SM2320 B

Date Analyzed: 9/7/22
 Analyst: KS
 Titrant Lot #: 22140114

Laboratory ID	Titrant Normality	Sample Vol. (mL)	Initial pH	Volume of Titrant (mL)		Comments
				Initial pH 8.3	Final pH 4.5	
MB 0907W1	0.02	50			0.05	
SB 0907W1		25			2.4-0.05= 2.35	Spike ID = WC1-S1-09
08-279-01		|			4.7-2.4= 2.3	refill ↓
-01 DUP					2.3	
-02					4.7-2.3= 2.4	refill ↓
-03					2.15	
-04					4.45-2.15= 2.3	refill ↓
-05					2.35	
-06					2.4-2.35= 0.05	
-06			100		2.5-2.4= 0.1	
-07			25		3.35-2.5= 0.85	refill ↓
-08					0.95	
-09				1.9-0.95= 0.95		
-10				3.1-1.9= 1.2		
-11				4.7-3.1= 1.6	refill ↓	
-12				2.1		
-13				3.3-2.1= 1.2		
08-268-05				10-3.3=6.7 6.7+0.05=6.75	refill	
-07				6-0.05= 5.95	refill ↓	
-09				6.75		

APPENDIX C
Data Validation Reports

Project:	Port of Anacortes – Quiet Cove Property, Interim Action Construction Oversight February 2022 Groundwater Samples
GEI File No:	5147-024-11
Date:	February 26, 2022

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2B data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of groundwater samples collected as part of the February 2022 Quiet Cove Site (Site) Post-Interim Action Construction monitoring, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Site located at 2nd Street and O Avenue in Anacortes, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Interim Action Work Plan (GeoEngineers, 2020) including the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), and the Post-Interim Action Construction Groundwater Monitoring Plan (GeoEngineers, 2021), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates

- Laboratory Duplicates
- Field Duplicates
- Instrument Tuning
- Internal Standards
- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits
- Miscellaneous

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory Sample Delivery Group (SDG)	Validated Samples
2202-007	MW-8_020122
2202-068	MW-1A_020222, DUP-1_020222, MW-4_020322, MW-13_020222, MW-14_020222, MW-15_020322
2202-092	MW-2A_020722, MW-3_020722

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the water samples using the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Petroleum Hydrocarbons with Silica Gel (SG) Cleanup (NWTPH-Dx/SG) by Method NWTPH-Dx/SG;
- Volatile Organic Compounds (VOCs) by Method SW8260D;
- Total and Dissolved Metals by Methods EPA200.8/7470A;
- Alkalinity by Method SM2320B; and
- Dissolved Methane by Method RSK-175

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Anions by Method EPA300.0; and
- Ferrous Iron by Method SM3500-FeB

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were signed, accurate, and complete when submitted to the laboratory, with the following exceptions:

SDG 2202-068: The laboratory noted that for Sample MW-14_020222 the sample ID was listed as MW-4 on the sample vial labels. The sample was logged as MW-14_020222, as listed on the COC.

The laboratory noted that for Sample MW-1A_020222 the sample vial label was blank on one amber sampling vial. The sample vial was determined to be for Sample MW-1A_020222 by process of elimination.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exception noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2° and 6° Celsius, with the exception noted below. Sample preservation protocols were followed.

SDG 2202-092: (Anions) The 48-hour holding time for nitrate analysis was exceeded by one day in Samples MW-2A-020722 and MW-3-020722. The samples were reanalyzed out of holding time due to laboratory QC outliers in the initial analysis. The positive results for nitrate were qualified as estimated (J) in these samples.

The sample cooler temperature recorded at the laboratory was 1.0 degree Celsius. It was determined through professional judgment that since the samples were not frozen, this temperature should not affect the sample analytical results.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. The surrogate recoveries for field samples were within the laboratory control limits.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits in the SDGs in this report, with the following exceptions:

SDG 2202-007: (Ferrous Iron) The laboratory performed two MS/MSD sample sets with QC outliers; however, they were performed on samples from a different SDG and are not representative of the field samples within this SDG; therefore, no action was required.

SDG 2202-068: (Ferrous Iron) The laboratory performed an MS/MSD sample set on Sample MW-13_020222. The %R for ferrous iron was greater than the control limits in the MS/MSD digested on 2/2/2022. The positive result for this target analyte was qualified as estimated (J) in this sample.

SDG 2202-092: (Ferrous Iron) The laboratory performed an MS/MSD sample set on Sample MW-2A-020722. The %R for ferrous iron was greater than the control limits in the MSD digested on 2/8/2022; however, the %R for this target analyte was within the control limits in the corresponding MS. For this reason, no action was required for this outlier.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the specific laboratory analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD as a measurement of precision.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2202-068: One field duplicate sample pair, MW-1A_020222/DUP-1_020222, was submitted with this SDG. The precision criteria for the target analytes were met in this sample pair, with the exception of nitrate. The positive result and reporting limit for this target analyte were qualified as estimated (J and UJ, accordingly) in this sample pair.

Instrument Tuning

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

Internal Standards (Low Resolution Mass Spectrometry)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in an environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. The internal standard recoveries were within the control limits.

Initial Calibrations (ICALs)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. For inorganic analyses, the %R values were within the control limits of 90% and 110%. For organic analyses, the percent relative standard deviation (%RSD) and relative response factors (RRF) values were within the control limits stated in the USEPA Contract Laboratory Program National Functional Guidelines (USEPA, 2020a; 2020b).

Continuing Calibrations (CCALs)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. For inorganic analyses, the %R values were within the control limits of 90% and 110%. For organic analyses, the percent difference (%D) and relative response factors (RRF) values were within the control limits in the USEPA Contract Laboratory Program National Functional Guidelines (USEPA, 2020a; 2020b).

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to target analyte interference.

Miscellaneous

SDG 2202-092: (NWTPH-Dx) The positive result for lube oil-range hydrocarbons in Sample MW-3_020722 may be influenced by the relative concentration of diesel-range hydrocarbons in the sample. For this reason, the positive result for lube oil-range hydrocarbons was qualified as estimated (J) in this sample, in order to signify a potential high bias.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW-1A_020222	Nitrate	J	Field Duplicate Precision
DUP-1_020222	Nitrate	UJ	Field Duplicate Precision
MW-2A-020722	Nitrate	J	Holding Time
MW-3-020722	Lube oil-range hydrocarbons (Dx)	J	See Miscellaneous
	Nitrate	J	Holding Time
MW-13_020222	Ferrous iron	J	MS/MSD Recovery

References

U.S. Environmental Protection Agency (USEPA), 2009 “Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use,” EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

GeoEngineers, 2020. "Interim Action Work Plan, Quiet Cove Site" Prepared for the Washington Department of Ecology on behalf of the Port of Anacortes. January 9, 2020.

GeoEngineers, 2021. "Post-Interim Action Groundwater Monitoring Plan" Prepared for the Washington Department of Ecology on behalf of the Port of Anacortes. August 19, 2021.

Project:	Port of Anacortes – Quiet Cove Property, Interim Action Construction Oversight May 2022 Groundwater Samples
GEI File No:	05147-024-11
Date:	June 21, 2022

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2B data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of groundwater samples collected as part of the May 2022 Quiet Cove Site (Site) Post-Interim Action Construction monitoring, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Site located at 2nd Street and O Avenue in Anacortes, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Interim Action Work Plan (GeoEngineers, 2020) including the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), and the Post-Interim Action Construction Groundwater Monitoring Plan (GeoEngineers, 2021), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates

- Field Duplicates
- Instrument Tuning
- Internal Standards
- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits
- Miscellaneous

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory Sample Delivery Group (SDG)	Validated Samples
2205-223	MW-1A_051922, DUP-1_051922, MW-2A_051722, MW-3_051722, MW-4_051722, MW-8_051822, MW-13_051822, MW-14_051822, MW-15_051722

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the water samples using the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Petroleum Hydrocarbons with Silica Gel (SG) Cleanup (NWTPH-Dx/SG) by Method NWTPH-Dx/SG;
- Volatile Organic Compounds (VOCs) by Method SW8260D;
- Total and Dissolved Metals by Methods EPA200.8/7470A;
- Alkalinity by Method SM2320B; and
- Dissolved Methane by Method RSK-175

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Anions by Method EPA300.0; and
- Ferrous Iron by Method SM3500-FeB

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were signed, accurate, and complete when submitted to the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2° and 6° Celsius, with the exception noted below. Sample preservation protocols were followed.

SDG 2205-223: (Anions) The 48-hour holding time for nitrate analysis was exceeded in Samples MW-1A_051922, DUP-1_051922, MW-3_051722, MW-4_051722, and MW-15_051722. The samples were reanalyzed out of holding time due to laboratory QC outliers in the initial analysis. The positive result and reporting limits for nitrate were qualified as estimated (J and UJ, accordingly) in these samples.

The sample cooler temperature recorded at the laboratory was 1.0 degree Celsius. It was determined through professional judgment that since the samples were not frozen, this temperature should not affect the sample analytical results.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. The surrogate recoveries for field samples were within the laboratory control limits, with the following exceptions:

SDG 2205-223: (Dissolved Methane) The %R values for surrogate 1-Butene were less than the control limits in Samples MW-4_051722 and MW-15_051722. The positive results for dissolved methane were qualified as estimated (J) in these samples.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits in the SDGs in this report.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the specific laboratory analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD as a measurement of precision.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2205-223: One field duplicate sample pair, MW-1A_051922/DUP-1_051922, was submitted with this SDG. The precision criteria for the target analytes were met in this sample pair.

Instrument Tuning

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

Internal Standards (Low Resolution Mass Spectrometry)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in an environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. The internal standard recoveries were within the control limits.

Initial Calibrations (ICALs)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. For inorganic analyses, the %R values were within the control limits of 90% and 110%. For organic analyses, the percent relative standard deviation (%RSD) and relative response factors (RRF) values were within the control limits stated in the USEPA Contract Laboratory Program National Functional Guidelines (USEPA, 2020a; 2020b).

Continuing Calibrations (CCALs)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. For inorganic analyses, the %R values were within the control limits of 90% and 110%. For organic analyses, the percent difference (%D) and relative response factors (RRF) values were within the control limits in the USEPA Contract Laboratory Program National Functional Guidelines (USEPA, 2020a; 2020b).

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to target analyte interference.

Miscellaneous

SDG 2205-223: (NWTPH-Gx) The positive result for gasoline-range hydrocarbons in Sample MW-8_051822 may be influenced by hydrocarbons indicative of heavier fuels present in the sample. For this reason, the positive result for gasoline-range hydrocarbons was qualified as estimated (J) in this sample, in order to signify a potential high bias.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with

the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW-1A_051922	Nitrate	UJ	Holding Time
DUP-1_051922	Nitrate	UJ	Holding Time
MW-3_051722	Nitrate	J	Holding Time
MW-4_051722	Dissolved methane	J	Surrogate Recovery
	Nitrate	UJ	Holding Time
MW-8_051822	Gasoline-range hydrocarbons	J	See Miscellaneous
MW-15_051722	Dissolved methane	J	Surrogate Recovery
	Nitrate	UJ	Holding Time

References

U.S. Environmental Protection Agency (USEPA), 2009 “Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use,” EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

GeoEngineers, 2020. “Interim Action Work Plan, Quiet Cove Site” Prepared for the Washington Department of Ecology on behalf of the Port of Anacortes. January 9, 2020.

GeoEngineers, 2021. “Post-Interim Action Groundwater Monitoring Plan” Prepared for the Washington Department of Ecology on behalf of the Port of Anacortes. August 19, 2021.

Project:	Port of Anacortes – Quiet Cove Property, Interim Action Construction Oversight 2021 Groundwater Samples
GEI File No:	5147-024-11
Date:	November 19, 2021

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2B data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of groundwater samples collected as part of the 2021 Quiet Cove Site (Site) Post-Interim Action Construction monitoring, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Site located at 2nd Street and O Avenue in Anacortes, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020a) and Inorganic Superfund Methods Data Review (USEPA, 2020b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Interim Action Work Plan (GeoEngineers, 2020) including the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), and the Post-Interim Action Construction Groundwater Monitoring Plan (GeoEngineers, 2021), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates

- Field Duplicates
- Instrument Tuning
- Internal Standards
- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory Sample Delivery Group (SDG)	Validated Samples
2110-231	MW-1A_102521, DUP-1_102521, MW-3_102521, MW-4_102521, MW-8_102521, MW-13_102521, MW-14_102521, MW-15_102521

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the water samples using the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Petroleum Hydrocarbons with Silica Gel (SG) Cleanup (NWTPH-Dx/SG) by Method NWTPH-Dx/SG;
- Volatile Organic Compounds (VOCs) by Method SW8260D;
- Total and Dissolved Metals by Methods EPA200.8/7470A;
- Alkalinity by Method SM2320B; and
- Dissolved Methane by Method RSK-175

OnSite subcontracted to AmTest Laboratories, Inc., (AmTest) located in Kirkland, Washington for laboratory analyses on the water samples using the following method:

- Anions by Method EPA300.0

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Ferrous Iron by Method SM3500-FeB

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided all required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and all identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were signed, accurate, and complete when submitted to the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2° and 6° Celsius. Sample preservation protocols were followed.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For all sample batches, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R and RPD values were within the proper control limits in the SDGs in this report, with the following exception:

SDG 2110-231: (Ferrous Iron) The laboratory performed an MS/MSD sample set on Sample MW-1A_102521. The %R for ferrous iron was greater than the control limits in the MS/MSD digested on 10/26/2021. The positive result for this target analyte was qualified as estimated (J) in this sample.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the specific laboratory analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD as a measurement of precision.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

SDG 2110-231: One field duplicate sample pair, MW-1A_102521/DUP-1_102521, was submitted with this SDG. The precision criteria for the target analytes were met in this sample pair.

Instrument Tuning

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument

tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

Internal Standards (Low Resolution Mass Spectrometry)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. All internal standard recoveries were within the control limits.

Initial Calibrations (ICALs)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. For inorganic analyses, the %R values were within the control limits of 90% and 110%. For organic analyses, the percent relative standard deviation (%RSD) and relative response factors (RRF) values were within the control limits stated in the USEPA Contract Laboratory Program National Functional Guidelines (USEPA, 2020a; 2020b).

Continuing Calibrations (CCALs)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. For inorganic analyses, the %R values were within the control limits of 90% and 110%. For organic analyses, the percent difference (%D) and relative response factors (RRF) values were within the control limits in the USEPA Contract Laboratory Program National Functional Guidelines (USEPA, 2020a; 2020b).

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to target analyte interference.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

The data are acceptable for the intended use, with the following qualification listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW-1A_102521	Ferrous iron	J	MS/MSD Recovery

References

- U.S. Environmental Protection Agency (USEPA), 2009 “Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use,” EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.
- GeoEngineers, 2020. “Interim Action Work Plan, Quiet Cove Site” Prepared for the Washington Department of Ecology on behalf of the Port of Anacortes. January 9, 2020.
- GeoEngineers, 2021. “Post-Interim Action Groundwater Monitoring Plan” Prepared for the Washington Department of Ecology on behalf of the Port of Anacortes. August 19, 2021.

