

July 30, 2026

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

Attention: David Horne

Subject: Post-Construction Compliance Groundwater Monitoring Report – February 2026 Groundwater
Monitoring Event
Dakota Creek Industries
Anacortes, Washington
Facility/Site No.: 2670
Cleanup Site ID: 5174
File No. 5147-006-19

Introduction

This document presents the results of February 2026 semi-annual post-construction compliance groundwater monitoring event completed by the Port of Anacortes (Port) at the Dakota Creek Industries (DCI) Site (Site) located in Anacortes, Washington. Semi-annual post-construction compliance groundwater monitoring activities are being completed pursuant to the Washington State Department of Ecology's (Ecology's) opinion letter dated April 1, 2025, (Ecology 2025) to document groundwater conditions following completion of the Ecology-selected cleanup action. Cleanup actions were completed at the Site by the Port between June and August of 2023 (2023 Cleanup Action) to address upland area soil contamination pursuant to the Cleanup Action Plan (CAP; Ecology 2022) and Consent Decree No. 22-2-00800-29. In accordance with the Ecology-approved Compliance Monitoring Plan (CMP; GeoEngineers 2022a), post-construction performance groundwater monitoring was completed on a quarterly basis for 1 year to document groundwater conditions down gradient of the 2023 Cleanup Action area and other areas of the Site in which soil exceeding the cleanup levels for arsenic, nickel, and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) remain in-place. Following review of the quarterly post-construction performance groundwater monitoring results, Ecology required semi-annual post-construction compliance monitoring to further evaluate groundwater conditions at the Site.

This document has been prepared to describe the semi-annual post-construction compliance groundwater monitoring activities completed and chemical analytical results as required by Ecology. The Site is shown relative to the surrounding area in Figure 1. Port Upland Area of the Site is shown in Figure 2. Semi-annual post-construction compliance groundwater monitoring activities are further discussed below.

Summary of Post-Construction Groundwater Monitoring Activities

Groundwater monitoring has been completed on a quarterly and semi-annual basis to further evaluate groundwater conditions at the Site in accordance with the Ecology-approved Compliance Monitoring Plan (CMP). The schedule for post-construction groundwater monitoring, sampling locations, procedures, and chemical analysis for the groundwater monitoring activities is summarized in the following sections.

GROUNDWATER MONITORING SCHEDULE

Quarterly Post-Construction Performance Groundwater Monitoring (2023 to 2024)

- Round 1 Groundwater Monitoring Event – Completed on November 28, 2023
- Round 2 Groundwater Monitoring Event – Completed on February 14, 2024
- Round 3 Monitoring Event – Completed between May 21 and May 24, 2024
- Round 4 Monitoring Event – Completed on August 19, 2024

Semi-Annual Post-Construction Compliance Groundwater Monitoring (2025 to 2026)

- Round 1 Groundwater Monitoring Event – Completed on August 13, 2025
- Round 2 Groundwater Monitoring Event – Completed on February 5, 2026

The need for additional rounds of post-construction compliance groundwater monitoring will be determined by Ecology.

GROUNDWATER MONITORING WELLS

As determined by Ecology, existing monitoring wells MW-2B located downgradient of the 2023 Cleanup Action area and monitoring well MW-8 located northwest of 2023 Cleanup Action area were sampled to as part of the semi-annual post-construction compliance monitoring activities to further evaluate groundwater conditions at the Site. The post-construction groundwater compliance monitoring wells are shown relative to the completed 2023 Cleanup Action in Figure 2. Completion details for the post-construction groundwater compliance monitoring wells are attached (Attachment 1).

GROUNDWATER SAMPLING AND ANALYSIS

In accordance with the CMP, groundwater samples were collected at or around the predicted day-time low tide based on the tide elevation for the United States National Oceanic and Atmospheric Administration (NOAA) Guemes Channel tide station (Station ID 9448794). Groundwater samples were obtained from the monitoring wells using low-flow/low-turbidity sampling techniques to minimize the suspension of sediment in groundwater samples collected. Prior to sampling, a “snapshot” of the groundwater levels at the Site were recorded using an electric water level indicator (e-tape) to the nearest 0.01 foot relative to the surveyed casing rim elevations. Snapshot groundwater level measurements were recorded at monitoring well locations MW-2B, MW-3A, MW-6, and MW-8 (Figure 2) within approximately 30 minutes of each other to evaluate the groundwater flow direction and gradients at the Site¹. Measured groundwater levels are summarized in Table 1.

¹ A Conex box currently is restricting access to the well monument for MW-4. As a result, water level measurements could not be obtained during the February 2026 monitoring event.

Upon completion of the snapshot groundwater elevation measurement, monitoring wells were purged and subsequently sampled for chemical analysis. During well purging, groundwater was pumped at 0.5 liters per minute or less using a peristaltic pump through dedicated polyethylene tubing placed within the screened interval of each well. A YSI Pro series 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.

Groundwater samples were collected when these parameters were observed to vary by less than 10 percent on three consecutive measurements. The stabilized field measurements at each well for the February 2026 groundwater monitoring event are summarized in Table 1.

CHEMICAL ANALYSIS

Groundwater samples were submitted to OnSite Environmental, Inc. located in Redmond, Washington (Ecology-accredited laboratory), for the following chemical analysis:

- Total and dissolved arsenic and nickel by United States Environmental Protection Agency (EPA) Method 200.8.
- cPAHs by EPA Method 8270E/SIM.

The samples were placed in a cooler with ice upon collection and kept cool during transport to the testing laboratory. Standard chain-of-custody procedures were followed in transporting the samples to the testing laboratory. A copy of the sample chain-of-custody is attached to the laboratory data report presented in Attachment 2. Purge water and incidental waste generated by the groundwater sampling activities were managed as described below.

QUALITY CONTROL/QUALITY ASSURANCE

An EPA-defined Stage 2B validation (EPA Document 540-R-08-005; EPA 2009) was completed on the laboratory data presented in Attachment 2. Based on the results of the Stage 2B validation (Attachment 3), the data were determined to be acceptable for their intended use with no additional qualifiers. Validated groundwater data for the February 2026 monitoring event have been uploaded to Ecology's Environmental Information Management (EIM) database in accordance with Policy 840.

INVESTIGATION DERIVED WASTE

Purge and decontamination water generated by the groundwater monitoring activities was collected and placed in a labeled and secured 55-gallon drum on Site pending transport 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 Site for landfill disposal via dumpster or trash receptacle at a GeoEngineers, Inc. (GeoEngineers) office.

DEVIATIONS FROM THE GROUNDWATER MONITORING PROGRAM

Deviations to the groundwater monitoring program were not observed during the February 2026 groundwater monitoring event.

Post-Construction Groundwater Conditions

GROUNDWATER FLOW AND DIRECTION

Measured groundwater elevations ranged between 7.00 and 8.18 feet mean lower low water (MLLW) during the February 2026 groundwater monitoring event. Based on the measured groundwater elevations during this and previous groundwater monitoring events (Attachment 4), the predominant groundwater flow direction is north toward the Guemes Channel.

Groundwater elevations measured during the February 2026 groundwater monitoring event and five previous monitoring events are summarized in Table 1.

ANALYTICAL RESULTS

Groundwater monitoring results for the February 2026 groundwater monitoring event and five previous monitoring events are presented in Table 2. Trend plots for arsenic, nickel, and cPAHs in monitoring wells sampled as part of this monitoring event are shown in Figures 3 through 5, respectively. Historical groundwater monitoring results are presented in Attachment 4.

The following summarize the groundwater compliance monitoring results by monitoring well location:

- **MW-2B** – Total and dissolved nickel exceeded the groundwater cleanup level of 8.2 micrograms per liter (µg/L) during the November 2023 monitoring event. In subsequent monitoring events, total nickel exceeded the groundwater cleanup level during the May 2024 monitoring event; however, dissolved nickel was either not detected or was detected at a concentration less than the groundwater cleanup level. The trend analysis for nickel at this location (Figure 4) shows that following paving activities completed by DCI², the nickel concentration in groundwater at MW-2B has remained relatively stable with detected concentrations slightly greater or less than the groundwater cleanup level. During the May and August 2024 monitoring events, total cPAHs calculated using the toxic equivalency quotient

² Between 2015 and 2016, DCI replaced a significant portion of their gravel working surface with asphalt pavement which prevents stormwater infiltration through the soil column. A comparison of the initial (2008 to 2013) groundwater monitoring results to the recent semi-annual groundwater monitoring results (2016 to 2017) show that the paved surfaces are limiting stormwater infiltration to soil and therefore, limiting leaching and subsequent migration of contaminants through the soil column to groundwater.

(TEQ) methodology relative to benzo(a)pyrene exceeded the groundwater cleanup level of 0.01 µg/L. Prior to the May 2024 monitoring event, cPAH compounds were not detected in groundwater in this vicinity since June 2008 (see results for MW-2; Table 1 – Attachment 4). The May 2024 groundwater monitoring event coincided with a heavy rainfall event resulting in the ponding of stormwater in several areas of the DCI Lease Area which may have contributed to the observed total cPAH exceedance at this location. The August 2024 monitoring event identified a significant reduction in the total cPAH concentration at MW-2B. During the February 2026 groundwater monitoring event, total and dissolved arsenic and nickel and cPAHs, were not detected.

- **MW-8** – Total and dissolved arsenic continue to exceed the groundwater cleanup level based on the results of the February 2026 and previous groundwater monitoring events. The trend analysis for arsenic at this location (Figure 3) shows that the detected range of total and dissolved arsenic concentrations in groundwater are generally consistent within a range of 10 to 19 µg/L. As part of the remedial Investigation ([RI]; GeoEngineers 2022b), soil sampling and analysis were completed in the vicinity of MW-8 to identify potential sources of arsenic to the groundwater. The soil sampling and analysis completed in the vicinity of MW-8 did not identify potential source materials for arsenic adjacent to or upgradient of the well location. Additionally, arsenic concentrations in monitoring well MW-1 located upgradient of MW-8 were not detected greater than the groundwater cleanup level since paving by DCI was completed in 2016 (see Attachment 4). Although total and dissolved arsenic exceeded the groundwater cleanup level in monitoring well MW-8, the concentration of arsenic is stable. During the February 2026 groundwater monitoring event total and dissolved nickel and cPAHs, were not detected.

Discussion

Post-construction compliance groundwater monitoring activities were completed on February 5, 2026, as required by Ecology in accordance with their opinion letter dated April 1, 2025. During this monitoring event, total and dissolved arsenic was detected at concentrations exceeding groundwater cleanup level in monitoring well MW-8. Soil sampling and analysis completed as part of the RI in the vicinity of this monitoring well has not identified a specific source to groundwater contamination. Since February 2016, groundwater monitoring results indicate relatively stable conditions at this location. Other contaminants evaluated, including total and dissolved nickel and cPAHs, evaluated at MW-8 were not detected during the February 2026 groundwater monitoring event. At MW-2B, total and dissolved arsenic and nickel and cPAHs were either not detected or were detected at concentrations less than the groundwater cleanup level.

References

- GeoEngineers, Inc. (GeoEngineers), 2022a. Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), Dakota Creek Industries, Anacortes, Washington. Prepared for Washington State Department of Ecology on Behalf of Port of Anacortes. GEI File No. 5147-006-16. November 1, 2022.
- GeoEngineers Inc. (GeoEngineers). 2022b. Remedial Investigation/Feasibility Study Report, Dakota Creek Industries, Anacortes, Washington, Ecology Agreed Order No. DE-07TCPHQ-5080. Prepared for the Washington State Department of Ecology on Behalf of Port of Anacortes. October 27.

Washington State Department of Ecology (Ecology), 2022. Cleanup Action Plan, Dakota Creek Industries, Anacortes, Washington, Facility Site ID: 2670, Cleanup Site ID: 5147. Prepared by the Washington State Department of Ecology, Toxics Cleanup Program, Olympia, Washington. July.

Washington State Department of Ecology (Ecology), 2025. Letter Regarding Post Construction Long-Term Groundwater Monitoring, Site Name: Anacortes Port of Dakota Creek, Site Address: 115 Q Ave, Anacortes, Wa 98221, Facility/Site ID: 2670, Cleanup Site ID: 5147. April 1.

U.S. Environmental Protection Agency (EPA) 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. Publication No. EPA-540-R-08-005. January.

Post-construction groundwater conditions will continue to be evaluated in accordance with the Ecology-Approved CMP/QAPP to document Site conditions as required. Please contact us with any questions or concerns.

Sincerely,
GeoEngineers, Inc.



Michael Ysaguirre, GIT
Environmental Scientist

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Attachments

Tables

Table 1. Post-Construction Groundwater Elevation and Field Parameters

Table 2. Post-Construction Groundwater Chemical Analytical Data

Figures

Figure 1. Vicinity Map

Figure 2. Site Plan

Figure 3. Summary of Arsenic in Groundwater

Figure 4. Summary of Nickel in Groundwater

Figure 5. Summary of Total cPAH TEQ in Groundwater

Attachment 1. Monitoring Well Completion Logs

Attachment 2. Laboratory Data Report

Attachment 3. Data Validation Report

Attachment 4. Historical Groundwater Chemical Analytical Data

One electronic copy submitted

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Tables

Table 1
Post-Construction Groundwater Elevation and Field Parameters
Dakota Creek Industries
Anacortes, Washington

Groundwater Monitoring Well ¹	Groundwater Monitoring Event	Date Sampled	Top of Casing Elevation (ft MLLW)	Depth to Groundwater (ft)	Groundwater Elevation (ft MLLW)	pH	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Total Dissolved Solids (g/L)	ORP (mV)	Salinity (ppt)
MW-2B	Round 1	11/28/23	14.73	7.21	7.52	6.95	21,694	6.05	0.14	14.0	17.51	9.0	16.52
	Round 2	02/14/24		7.74	6.99	7.14	19,444	2.3	5.20	9.7	17.86	108.2	16.84
	Round 3	05/21/24		9.22	5.51	7.16	9,990	27.2	3.38	13.1	8.30	89.9	7.42
	Round 4	08/19/24		9.55	5.18	7.00	23,710	0.02	0.49	19.0	15.40	6.3	14.42
	Round 5	08/13/25		8.95	5.78	6.88	32,280	0.02	0.06	18.5	21.00	-155.3	20.24
	Round 6	02/05/26		7.25	7.48	6.91	28,850	0.02	4.07	10.8	18.75	25.4	17.79
MW-3A	Round 1	11/28/23	14.83	6.78	8.05	7.58	33,497	8.94	6.18	9.9	30.61	22.8	30.43
	Round 2	02/14/24		9.98	4.85	7.52	28,928	5.62	9.08	8.5	27.48	121.6	26.91
	Round 3	05/21/24		10.45	4.38	7.59	27,400	24.7	6.15	10.6	24.53	112.2	23.89
	Round 4	08/19/24		10.37	4.46	7.48	44,190	0.27	3.98	16.2	28.72	183.6	28.58
	Round 5	08/13/25		10.11	4.72	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²
	Round 6	02/05/26		6.8	8.03	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²
MW-6	Round 1	11/28/23	12.46	4.69	7.77	7.59	33,258	9.45	6.60	9.3	30.91	4.5	30.72
	Round 2	02/14/24		7.58	4.88	7.47	29,738	5.02	8.04	8.4	28.27	133.2	27.76
	Round 3	05/24/24		7.80	4.66	7.59	32,440	2.77	7.60	11.3	28.58	116.0	28.28
	Round 4	08/19/24		8.01	4.45	7.58	44,930	22.7	5.54	14.5	29.20	187.3	29.07
	Round 5	08/13/25		7.82	4.64	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²
	Round 6	02/05/26		4.28	8.18	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²	__ ²
MW-8	Round 1	11/28/23	13.80	7.08	6.72	7.17	2,028	8.04	0.22	14.6	1.64	-112.2	1.37
	Round 2	02/14/24		6.72	7.08	6.87	2,580	6.93	0.13	13.0	2.11	-17.3	1.75
	Round 3	05/21/24		7.73	6.07	7.26	1,510	36.8	0.18	13.2	1.27	-127.1	1.00
	Round 4	08/19/24		7.42	6.38	6.88	1,964	6.29	0.14	15.7	1.28	-67.0	1.01
	Round 5	08/13/25		7.79	6.01	7.04	1,710	4.55	0.09	15.5	1.12	-110.4	0.87
	Round 6	02/05/26		6.80	7.00	6.62	2,841	2.22	0.27	13.8	1.83	16.2	1.47

Notes:

- ¹ Monitoring well locations shown in Figure 2.
- ² Monitoring well sampling and analysis discontinued in accordance with Ecology's opinion letter dated April 1, 2025.
- °C = degree Celsius
- ft = feet
- g/L = grams per liter
- mg/L = milligrams per liter
- MLLW = Mean Lower Low Water
- ORP = Oxygen Reduction Potential
- mV = millivolt
- NTU = Nephelometric Turbidity Unit
- ppt = parts per thousand
- µS/cm = micro Siemens per centimeter

Table 2
Post-Construction Groundwater Chemical Analytical Data
Dakota Creek Industries
Anacortes, Washington

Groundwater Monitoring Well ¹	Groundwater Monitoring Event	Date Sampled	Units	Total Metals ²		Dissolved Metals ²		Carcinogenic Polycyclic Aromatic Hydrocarbons ³ (cPAHs)							
				Arsenic	Nickel	Arsenic	Nickel	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total cPAH TEQ ⁴ (ND=0.5RL)
MW-2B	Round 1	11/28/23	µg/L	7.8 U	9.6	8.0 U	9.1	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 2	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 3	05/21/24	µg/L	5.6 U	13	5.0 U	5.2	0.013	0.015	0.024	0.0095 U	0.026	0.0095 U	0.016	0.022
	Round 4	08/19/24	µg/L	6.9	5.6 U	5.9	5.0 U	0.0094 U	0.01	0.017	0.0094 U	0.016	0.0094 U	0.0094 U	0.014
	Round 5 ⁵	08/13/25	µg/L	6.8	5.9	5.3	5.8	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 6 ⁵	02/05/26	µg/L	5.6 U	5.6 U	5.5 U	5.5 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
MW-3A	Round 1	11/28/23	µg/L	7.8 U	7.8 U	8.0 U	8.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 2	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 3	05/21/24	µg/L	5.6 U	6.9	5.0 U	5.0 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 4	08/19/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 5	08/13/25	µg/L	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6
	Round 6	02/05/26	µg/L	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6
MW-6	Round 1 ⁵	11/28/23	µg/L	7.8 U	7.8 U	8.0 U	8.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 2 ⁵	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 3 ⁵	05/24/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 4 ⁵	08/19/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 5	08/13/25	µg/L	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6
	Round 6	02/05/26	µg/L	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6	_6
MW-8	Round 1	11/28/23	µg/L	18	7.8 U	14	8.0 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	Round 2	02/14/24	µg/L	16	6.9 U	16	6.3 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	Round 3	05/21/24	µg/L	19	5.6 U	18	5.6 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U
	Round 4	08/19/24	µg/L	17	5.6 U	19	5.0 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	Round 5	08/13/25	µg/L	18	5.6 U	18	5.0 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U
	Round 6	02/05/26	µg/L	11	2.8 U	10	5.5 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U
Groundwater Cleanup Level				8.0	8.2	8.0	8.2	see Total cPAH TEQ							0.01

Notes:

¹ Monitoring well locations shown in Figure 2.

² Total and dissolved metals analyzed by United States Environmental Protection Agency (EPA) Method 200.8.

³ Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA method 8270E/SIM.

⁴ Total cPAHs calculated using toxic equivalency quotient (TEQ) methodology relative to benzo(a)pyrene. Non-detect cPAH compounds were assigned a value of one half of the reporting limit for these calculations.

⁵ A field duplicate groundwater sample was obtained from this monitoring well. The higher of the two concentrations (parent and field duplicate) is reported for each analyte.

⁶ Monitoring well sampling and analysis discontinued following Round 4 in accordance with Ecology's opinion letter dated April 1, 2025 (Ecology 2025).

µg/L = microgram per liter

RL = Reporting Limit

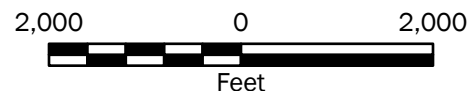
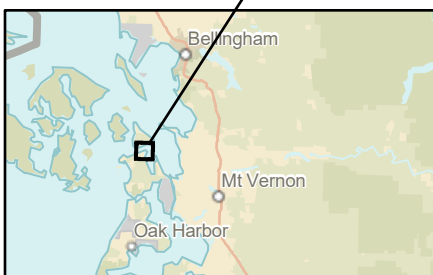
U = Laboratory qualifier indicating analyte not detected at level above listed reporting limit

Bold indicates analyte was detected.

Shading indicates analyte was detected at a concentration greater than the Site-Specific Groundwater Cleanup Level.

Chemical analyses performed by OnSite Environmental, Inc. of Redmond, Washington.

Figures



Vicinity Map

Dakota Creek Industries
Anacortes, Washington



Figure 1

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.

Data Source: ESRI
Projection: Washington State Plane, North Zone, North
American Datum 1983 (NAD83), US Foot

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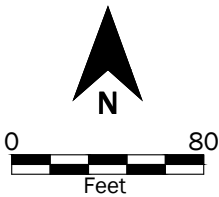
Legend

- Dakota Creek Industries (DCI) Lease Area
- Fence
- Interim Action and Backfill Area
- Asphalt/Concrete Pavement
- Gravel Working Surface
- MW-1 Monitoring Well (Active)
- MW-2 Monitoring Well (Decommissioned)
- MW-2B Post-Construction Compliance Groundwater Monitoring Well
- Inferred Groundwater Flow Direction
- 2023 Cleanup Action Area

Source(s):
• Aerial from Microsoft Bing, 2023

Projection: WA State Plane, North Zone, NAD83, US Foot

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Site Plan	
Dakota Creek Industries Anacortes, Washington	
GEOENGINEERS	Figure 2



Notes:

1. Non-detect result reported at the reporting limit.
2. µg/L = microgram per liter.
3. The highest sample result for parent/duplicate is shown.

Source(s): Attachment 4, Table 1 - Historical Groundwater Chemical Analytical Data.

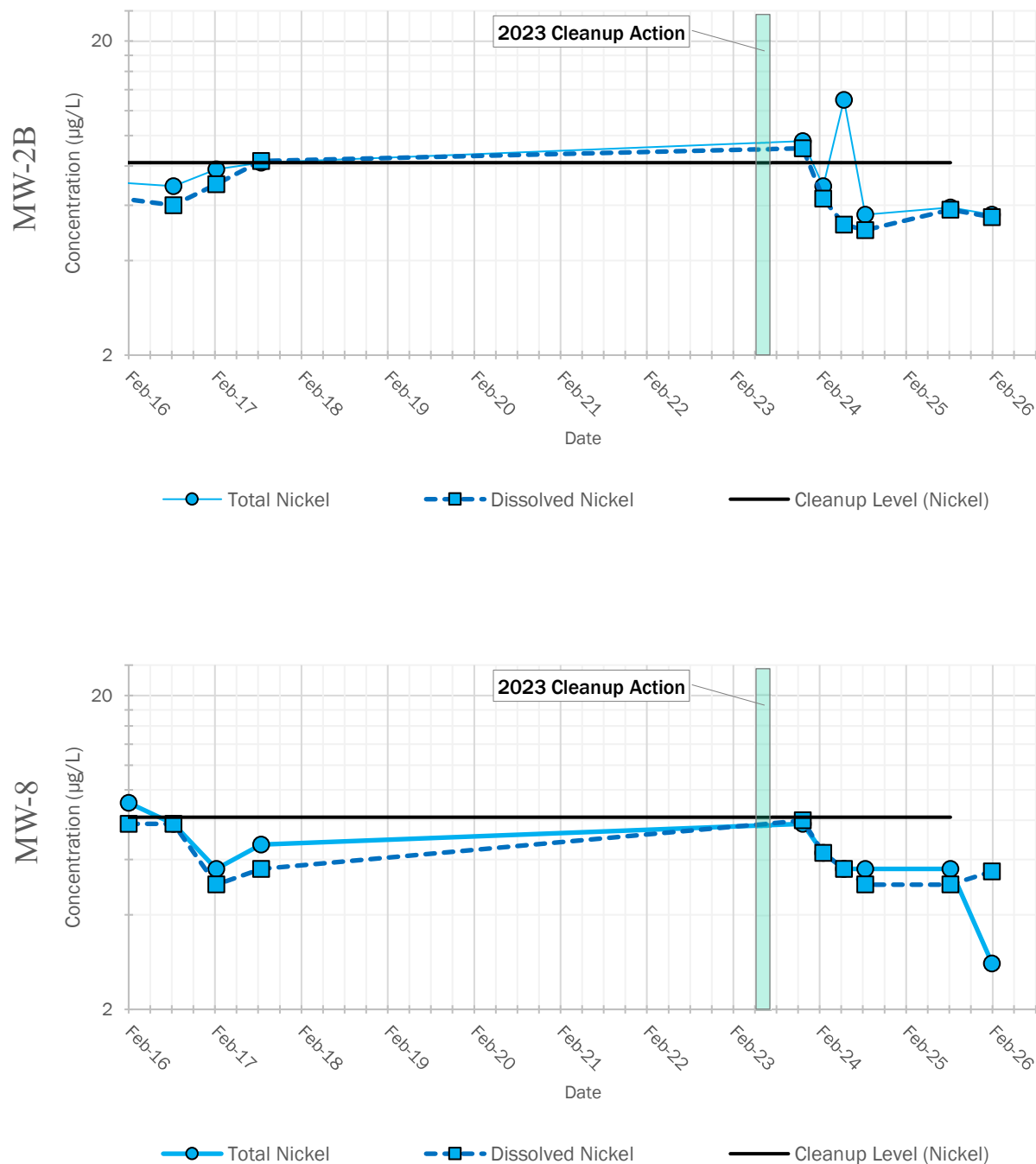
Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

Summary of Arsenic In Groundwater

Dakota Creek Industries
Anacortes, Washington



Figure 3



Notes:

1. Non-detect result reported at the reporting limit.
2. µg/L = microgram per liter.
3. The highest sample result for parent/duplicate is shown.

Source(s): Attachment 4, Table 1 - Historical Groundwater Chemical Analytical Data.

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

Summary of Nickel In Groundwater

Dakota Creek Industries
Anacortes, Washington



Figure 4



Notes:

1. Total carcinogenic polycyclic aromatic hydrocarbon (cPAHs) calculated using toxic equivalency quotient (TEQ) methodology relative to benzo(a)pyrene. Non-detect cPAH compounds were assigned a value of one half of the reporting limit for these calculations.
2. µg/L = microgram per liter.
3. The highest sample result for parent/duplicate is shown.

Source(s): Attachment 4, Table 1 - Historical Groundwater Chemical Analytical Data.

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

Summary of Total cPAH TEQ In Groundwater

Dakota Creek Industries
Anacortes, Washington

GEOENGINEERS

Figure 5

Attachment 1
Monitoring Well Completion Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES	
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES	
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE			GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES	
		CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS	
				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	
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
					CH	INORGANIC CLAYS OF HIGH PLASTICITY
					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.

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

A "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
	TS	Topsoil/Forest Duff/Sod

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
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
PPM	Parts per million
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

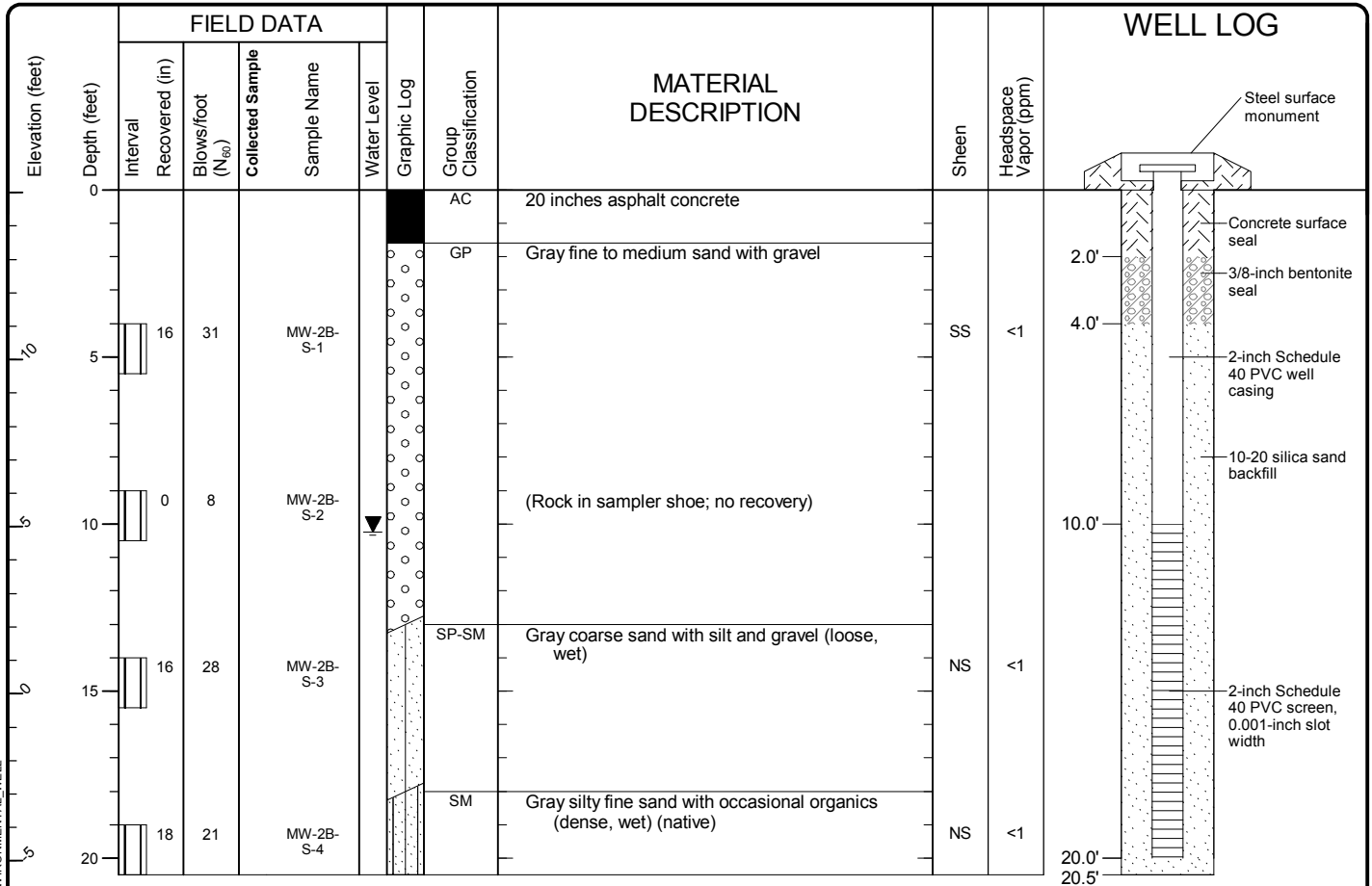
NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

KEY TO EXPLORATION LOGS



FIGURE A-1

Start Drilled 8/11/2016	End 8/11/2016	Total Depth (ft) 20.5	Logged By Checked By NRS RST	Driller Cascade Drilling, LP	Drilling Method Hollow-Stem Auger
Hammer Data 300 (lbs) / 30 (in) Drop		Drilling Equipment Mobile B-90		DOE Well I.D.: BJY 162 A 2 (in) well was installed on 8/11/2016 to a depth of 20.5 (ft).	
Surface Elevation (ft) 15.08 Vertical Datum MLLW		Top of Casing Elevation (ft) 14.7		Groundwater Date Measured 8/11/2016	
Latitude 48.520904 Longitude -122.61031		Horizontal Datum Geographic NAD83		Depth to Water (ft) 10.3	Elevation (ft) 4.5
Notes:					



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

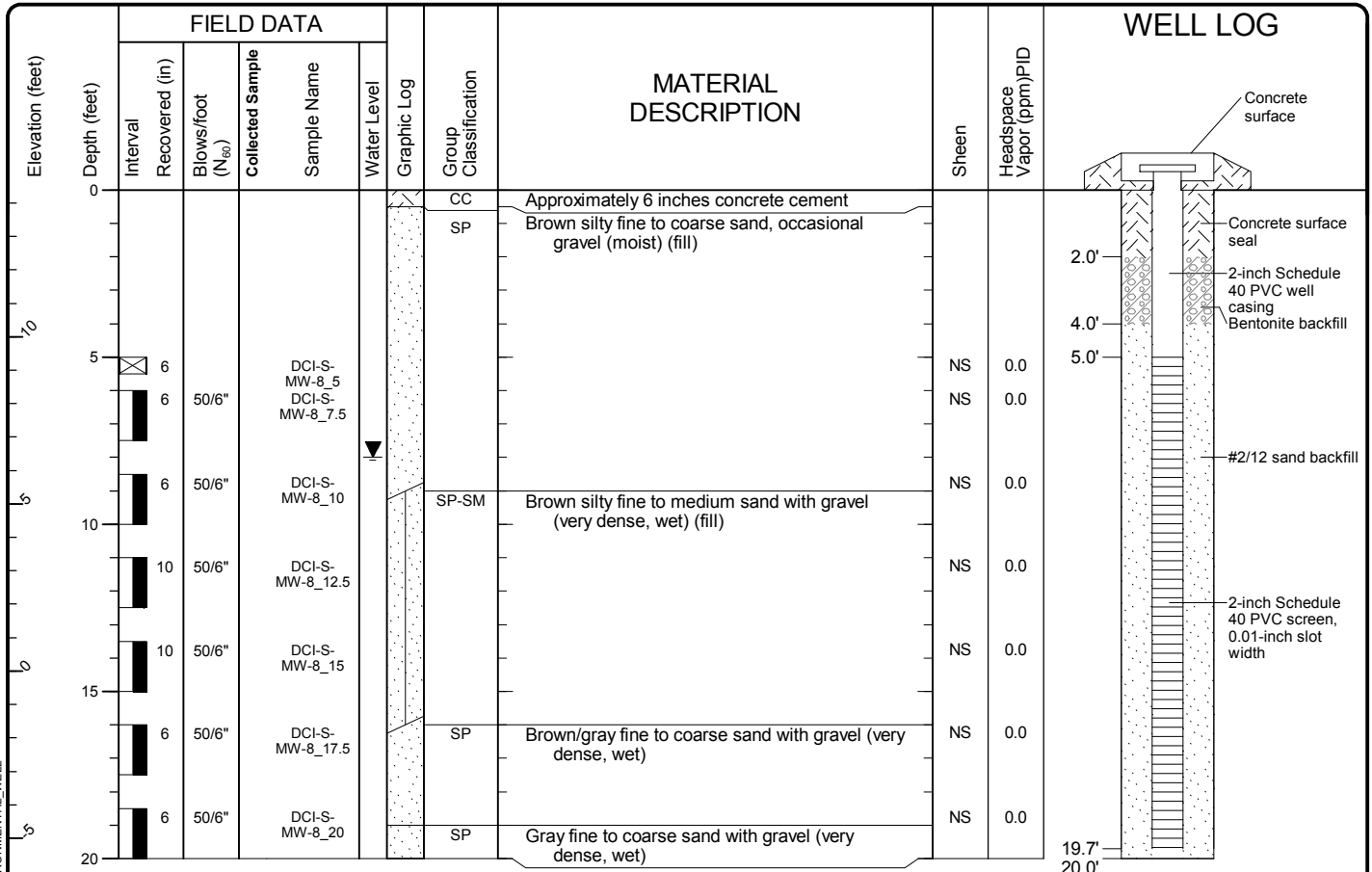
Log of Monitoring Well MW-2B



Project: Dakota Creek Industries
 Project Location: Anacortes, Washington
 Project Number: 5147-006-11

Figure A-2
 Sheet 1 of 1

Start Drilled 11/4/2015	End 11/4/2015	Total Depth (ft) 20	Logged By Checked By CVD RST	Driller Cascade Drilling, LP	Drilling Method Hollow-Stem Auger
Hammer Data 300 (lbs) / 30 (in) Drop		Drilling Equipment CME-850 Track Rig		DOE Well I.D.: BIX 153 A 2 (in) well was installed on 11/4/2015 to a depth of 20 (ft).	
Surface Elevation (ft) Vertical Datum MLLW 14.39		Top of Casing Elevation (ft) 13.8		<u>Groundwater</u>	
Latitude 48.52025611 Longitude -122.60916667		Horizontal Datum Geographic NAD83		<u>Date Measured</u> 11/4/2015	<u>Depth to Water (ft)</u> 8.0 <u>Elevation (ft)</u> 5.8
Notes: Air knife from 0 to 6 feet below ground surface					



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

Log of Monitoring Well MW-8



Project: Dakota Creek Industries
Project Location: Anacortes, Washington
Project Number: 5147-006-11

Figure A-3
Sheet 1 of 1

Attachment 2
Laboratory Data Report



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

February 17, 2026

Robert Trahan
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-19
Laboratory Reference No. 2602-071

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on February 5, 2026.

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 "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 17, 2026
Samples Submitted: February 5, 2026
Laboratory Reference: 2602-071
Project: 5147-006-19

Case Narrative

Samples were collected on February 5, 2026 and received by the laboratory on February 5, 2026. 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. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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 17, 2026
Samples Submitted: February 5, 2026
Laboratory Reference: 2602-071
Project: 5147-006-19

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2B-260205	02-071-01	Water	2-5-26	2-5-26	
MW-8-260205	02-071-02	Water	2-5-26	2-5-26	
DUP-1-260205	02-071-03	Water	2-5-26	2-5-26	



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-2B-260205						
Laboratory ID: 02-071-01						
Benzo[a]anthracene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
Chrysene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[b]fluoranthene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo(j,k)fluoranthene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[a]pyrene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
Indeno(1,2,3-c,d)pyrene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
Dibenz[a,h]anthracene	ND	0.0093	EPA 8270E/SIM	2-9-26	2-9-26	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>27-125</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>44-125</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>46-125</i>				

Client ID: MW-8-260205						
Laboratory ID: 02-071-02						
Benzo[a]anthracene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
Chrysene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[a]pyrene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
Indeno(1,2,3-c,d)pyrene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270E/SIM	2-9-26	2-9-26	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>27-125</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>44-125</i>				
<i>Terphenyl-d14</i>	<i>106</i>	<i>46-125</i>				



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		DUP-1-260205				
Laboratory ID:		02-071-03				
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
Chrysene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	2-9-26	2-9-26	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	73	27-125				
Pyrene-d10	87	44-125				
Terphenyl-d14	95	46-125				



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

TOTAL METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-2B-260205						
Laboratory ID: 02-071-01						
Arsenic	ND	5.6	EPA 200.8	2-16-26	2-16-26	
Nickel	ND	5.6	EPA 200.8	2-16-26	2-16-26	

Client ID: MW-8-260205						
Laboratory ID: 02-071-02						
Arsenic	11	2.8	EPA 200.8	2-16-26	2-16-26	
Nickel	ND	2.8	EPA 200.8	2-16-26	2-16-26	

Client ID: DUP-1-260205						
Laboratory ID: 02-071-03						
Arsenic	ND	5.6	EPA 200.8	2-16-26	2-16-26	
Nickel	ND	5.6	EPA 200.8	2-16-26	2-16-26	



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

DISSOLVED METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-2B-260205						
Laboratory ID: 02-071-01						
Arsenic	ND	5.5	EPA 200.8		2-16-26	
Nickel	ND	5.5	EPA 200.8		2-16-26	

Client ID: MW-8-260205						
Laboratory ID: 02-071-02						
Arsenic	10	5.5	EPA 200.8		2-16-26	
Nickel	ND	5.5	EPA 200.8		2-16-26	

Client ID: DUP-1-260205						
Laboratory ID: 02-071-03						
Arsenic	ND	5.5	EPA 200.8		2-16-26	
Nickel	ND	5.5	EPA 200.8		2-16-26	



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0209W2					
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Chrysene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	2-9-26	2-9-26	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	69	27-125				
Pyrene-d10	90	44-125				
Terphenyl-d14	100	46-125				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0209W2									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.542	0.546	0.500	0.500	108	109	55-123	1	23	
Chrysene	0.512	0.516	0.500	0.500	102	103	56-114	1	23	
Benzo[b]fluoranthene	0.517	0.520	0.500	0.500	103	104	55-122	1	34	
Benzo(j,k)fluoranthene	0.501	0.512	0.500	0.500	100	102	55-118	2	22	
Benzo[a]pyrene	0.520	0.519	0.500	0.500	104	104	56-115	0	23	
Indeno(1,2,3-c,d)pyrene	0.521	0.533	0.500	0.500	104	107	54-121	2	28	
Dibenz[a,h]anthracene	0.530	0.532	0.500	0.500	106	106	56-118	0	23	
Surrogate:										
2-Fluorobiphenyl					82	75	27-125			
Pyrene-d10					92	95	44-125			
Terphenyl-d14					107	97	46-125			



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

**TOTAL METALS
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0216WM1					
Arsenic	ND	1.1	EPA 200.8	2-16-26	2-16-26	
Nickel	ND	1.1	EPA 200.8	2-16-26	2-16-26	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-071-02							
	ORIG	DUP						
Arsenic	10.5	9.63	NA	NA	NA	NA	9	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	02-071-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	249	210	222	222	10.5	107	90	75-125	17	20
Nickel	236	200	222	222	ND	106	90	75-125	16	20

SPIKE BLANK

Laboratory ID:	SB0216WM1									
Arsenic	203		222		N/A	91		85-115		
Nickel	210		222		N/A	95		85-115		



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

**TOTAL METALS
 EPA 200.8
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV021626Y	50.0	48.4	3.2	+/- 10%
Nickel	ICV021626Y	50.0	49.8	0.40	+/- 10%
Arsenic	CCV1021626Y	40.0	40.4	-1.0	+/- 10%
Nickel	CCV1021626Y	40.0	42.0	-5.0	+/- 10%
Arsenic	CCV1021626Y	20.0	20.5	-2.5	+/- 10%
Nickel	CCV1021626Y	20.0	21.3	-6.5	+/- 10%
Arsenic	CCV2021626Y	40.0	40.2	-0.50	+/- 10%
Nickel	CCV2021626Y	40.0	41.1	-2.8	+/- 10%
Arsenic	CCV2021626Y	20.0	20.6	-3.0	+/- 10%
Nickel	CCV2021626Y	20.0	20.9	-4.5	+/- 10%
Arsenic	CCV3021626Y	40.0	40.6	-1.5	+/- 10%
Nickel	CCV3021626Y	40.0	39.9	0.25	+/- 10%
Arsenic	CCV3021626Y	20.0	20.3	-1.5	+/- 10%
Nickel	CCV3021626Y	20.0	20.5	-2.5	+/- 10%



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

**DISSOLVED METALS
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0216D1					
Arsenic	ND	1.1	EPA 200.8		2-16-26	
Nickel	ND	1.1	EPA 200.8		2-16-26	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-071-02							
	ORIG	DUP						
Arsenic	10.1	10.1	NA	NA	NA	NA	0	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	02-071-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	399	394	400	400	10.1	97	96	75-125	1	20
Nickel	365	367	400	400	ND	91	92	75-125	0	20

SPIKE BLANK

Laboratory ID:	SB0216D1									
Arsenic	80.7		80.0		N/A	101		85-115		
Nickel	84.8		80.0		N/A	106		85-115		



Date of Report: February 17, 2026
 Samples Submitted: February 5, 2026
 Laboratory Reference: 2602-071
 Project: 5147-006-19

**DISSOLVED METALS
 EPA 200.8
 CONTINUING CALIBRATION SUMMARY**

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV021626Y	50.0	48.4	3.2	+/- 10%
Nickel	ICV021626Y	50.0	49.8	0.40	+/- 10%
Arsenic	CCV1021626Y	40.0	40.4	-1.0	+/- 10%
Nickel	CCV1021626Y	40.0	42.0	-5.0	+/- 10%
Arsenic	CCV1021626Y	20.0	20.5	-2.5	+/- 10%
Nickel	CCV1021626Y	20.0	21.3	-6.5	+/- 10%
Arsenic	CCV2021626Y	40.0	40.2	-0.50	+/- 10%
Nickel	CCV2021626Y	40.0	41.1	-2.8	+/- 10%
Arsenic	CCV2021626Y	20.0	20.6	-3.0	+/- 10%
Nickel	CCV2021626Y	20.0	20.9	-4.5	+/- 10%
Arsenic	CCV3021626Y	40.0	40.6	-1.5	+/- 10%
Nickel	CCV3021626Y	40.0	39.9	0.25	+/- 10%
Arsenic	CCV3021626Y	20.0	20.3	-1.5	+/- 10%
Nickel	CCV3021626Y	20.0	20.5	-2.5	+/- 10%





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.
- X2 - Sample extract treated with a 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.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Sample/Cooler Receipt and Acceptance Checklist

Client: G&R

Client Project Name/Number: 5147-006-19

OnSite Project Number: 02-071

Initiated by: AP

Date Initiated: 2/5/2026

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A
1.2 Were the custody seals intact?	Yes	No	☒ N/A
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A
1.5 Were samples received between 0-6 degrees Celsius?	Yes	☒ No	N/A
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A	Temperature: <u>6.6°C</u>
1.7 How were the samples delivered?	☒ Client	☐ Courier	☐ UPS/FedEx ☐ OSE Pickup ☐ Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	Yes	☒ No
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No

3.0 Sample Verification

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

5035 is for Soil. #1 is for pre-weighed, unpreserved VOAs. #2 is for pre-weighed VOAs preserved with Sodium Bisulfate and/or Methanol

Explain any discrepancies:

2.4) all bottles had end of ID as 260206. date collected was 2/6/2026. Fixed to match COC per note on COC.

COMPLETE DATA PACKAGE

- cPAHs EPA 8270E/SIM
- Total Metals EPA 200.8
- Dissolved Metals EPA 200.8

cPAHs EPA 8270E/SIM

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209030.D
 Acq On : 9 Feb 2026 8:18 pm
 Operator : JP
 Sample : 02-071-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

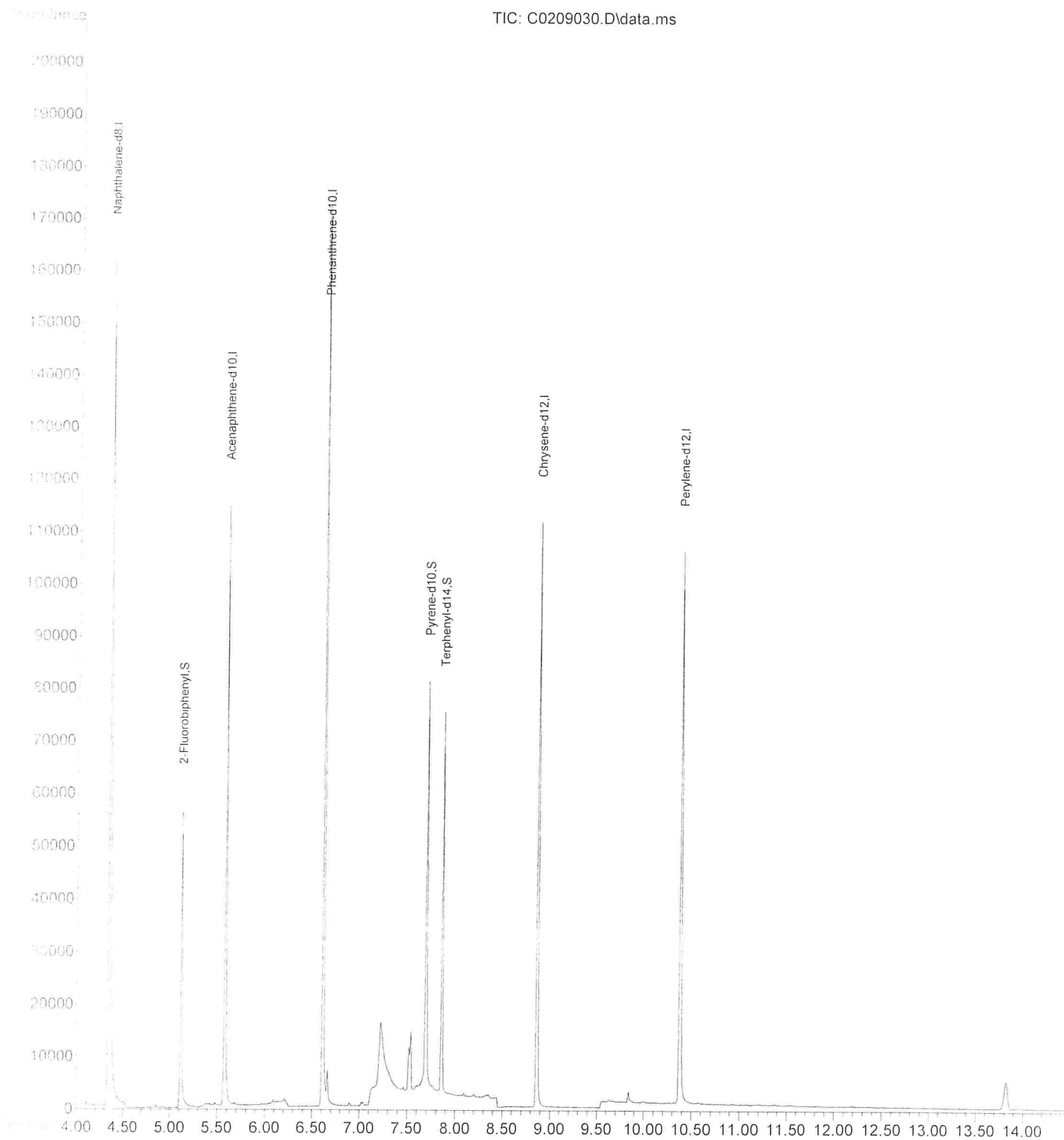
Quant Time: Feb 10 07:37:27 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Quant Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.343	136	208666	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	94809	2000.00	ppb	0.00
9) Phenanthrene-d10	6.615	188	163395	2000.00	ppb	0.00
16) Chrysene-d12	8.865	240	115414	2000.00	ppb	0.00
20) Perylene-d12	10.378	264	120813	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.114	172	58808	703.32	ppb	0.00
Spiked Amount	1000.000	Range 25 - 89	Recovery	=	70.33%	
10) Pyrene-d10	7.692	212	66344	864.28	ppb	0.00
Spiked Amount	1000.000	Range 40 - 110	Recovery	=	86.43%	
100) Terphenyl-d14	7.856	244	54153	974.69	ppb	0.00
Spiked Amount	1000.000	Range 39 - 92	Recovery	=	97.47%#	
Target Compounds						Qvalue
18) Benzo[a]anthracene	8.859	228	473	Below Cal		77

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

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209030.D
Acq On : 9 Feb 2026 8:18 pm
Operator : JP
Sample : 02-071-01
Misc :
Vial : 30 Sample Multiplier: 1

Quant Time: Feb 10 07:37:27 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209037.D
 Acq On : 9 Feb 2026 10:49 pm
 Operator : JP
 Sample : 02-071-02
 Misc :
 Vial : 37 Sample Multiplier: 1

Quant Time: Feb 10 07:38:17 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Quant Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

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

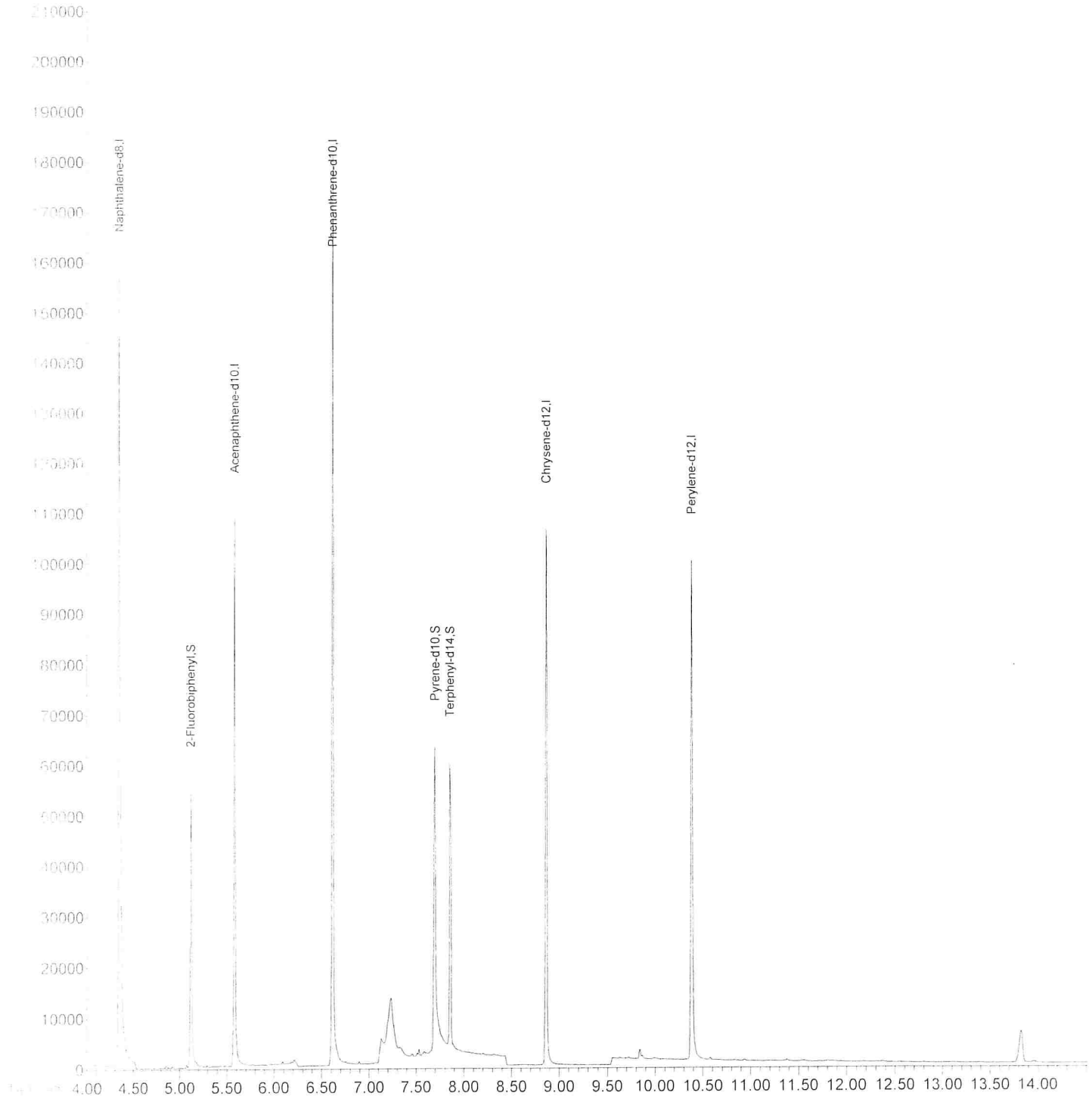
Internal Standards						
1) Naphthalene-d8	4.344	136	210096	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	95601	2000.00	ppb	0.00
9) Phenanthrene-d10	6.609	188	166427	2000.00	ppb	0.00
16) Chrysene-d12	8.859	240	118732	2000.00	ppb	0.00
30) Perylene-d12	10.378	264	125046	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.114	172	61628	730.94	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	73.09%		
10) Pyrene-d10	7.694	212	67548	863.94	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	86.39%		
17) Terphenyl-d14	7.847	244	60085	1055.12	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	105.51%#		
Target Compounds						
18) Benzo[a]anthracene	8.859	228	488	Below Cal		Qvalue 88

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

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209037.D
Acq On : 9 Feb 2026 10:49 pm
Operator : JP
Sample : 02-071-02
Vial :
Sample Multiplier: 1

Quant Time: Feb 10 07:38:17 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Quant Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration

TIC: C0209037.D\data.ms



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209031.D
 Acq On : 9 Feb 2026 8:40 pm
 Operator : JP
 Sample : 02-071-03
 Mass :
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 10 07:37:33 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Last Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

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

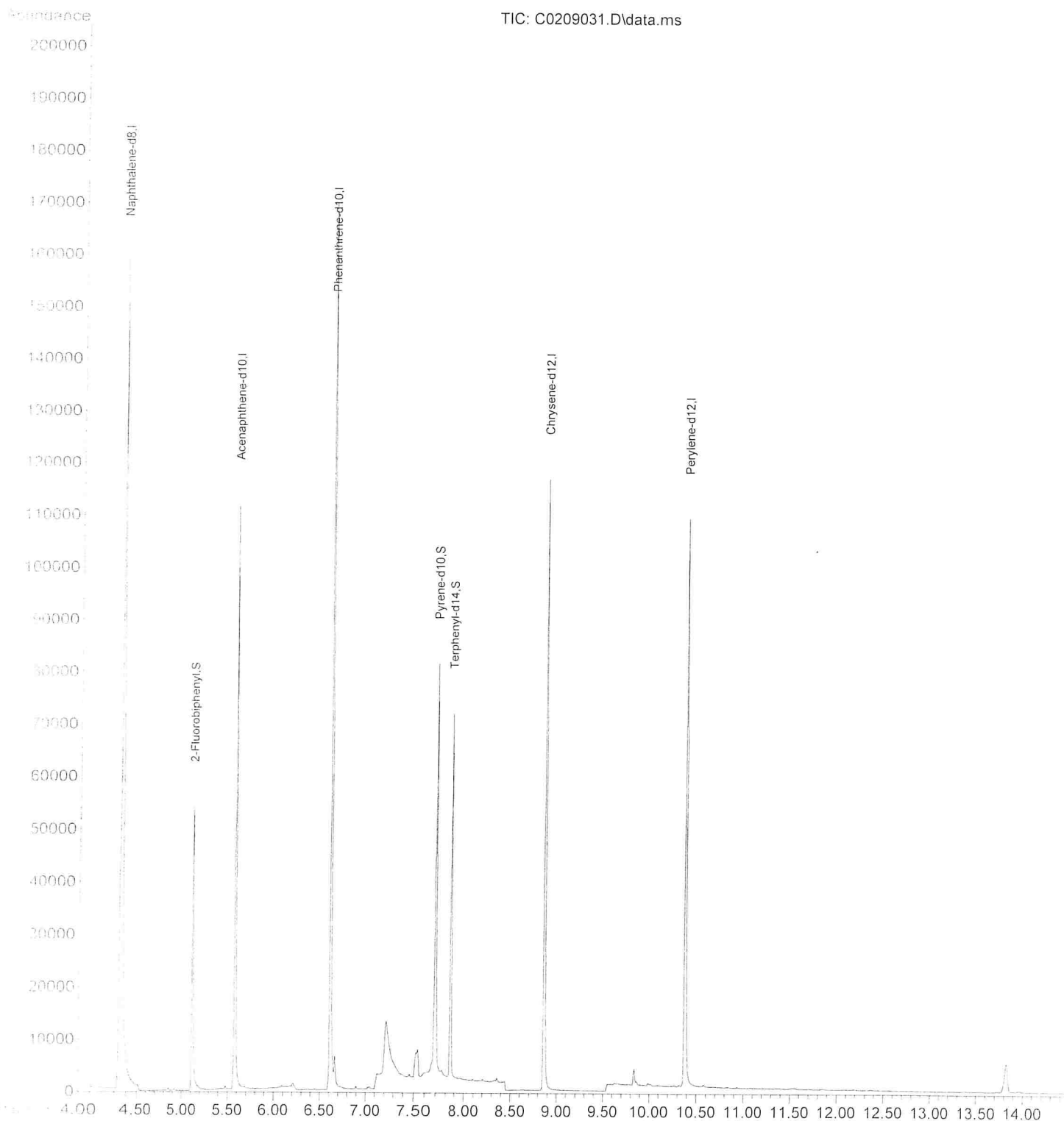
Internal Standards						
1) Naphthalene-d8	4.344	136	209657	2000.00	ppb	0.00
5) Acenaphthene-d10	5.579	164	94857	2000.00	ppb	0.00
9) Phenanthrene-d10	6.609	188	164333	2000.00	ppb	0.00
16) Chrysene-d12	8.865	240	120455	2000.00	ppb	0.00
20) Perylene-d12	10.378	264	126624	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.114	172	60725	725.88	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	72.59%		
10) Pyrene-d10	7.692	212	67407	873.12	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	87.31%		
17) Terphenyl-d14	7.856	244	55040	947.91	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	94.79%#		

Triast Compounds	Qvalue
-----	-----

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

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209031.D
Acq On : 9 Feb 2026 8:40 pm
Operator : JP
Sample : 02-071-03
K100 :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 10 07:37:33 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209025.D
 Acq On : 9 Feb 2026 6:30 pm
 Operator : JP
 Sample : MB0209W2
 HPLC :
 ABS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 10 07:36:48 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Last Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

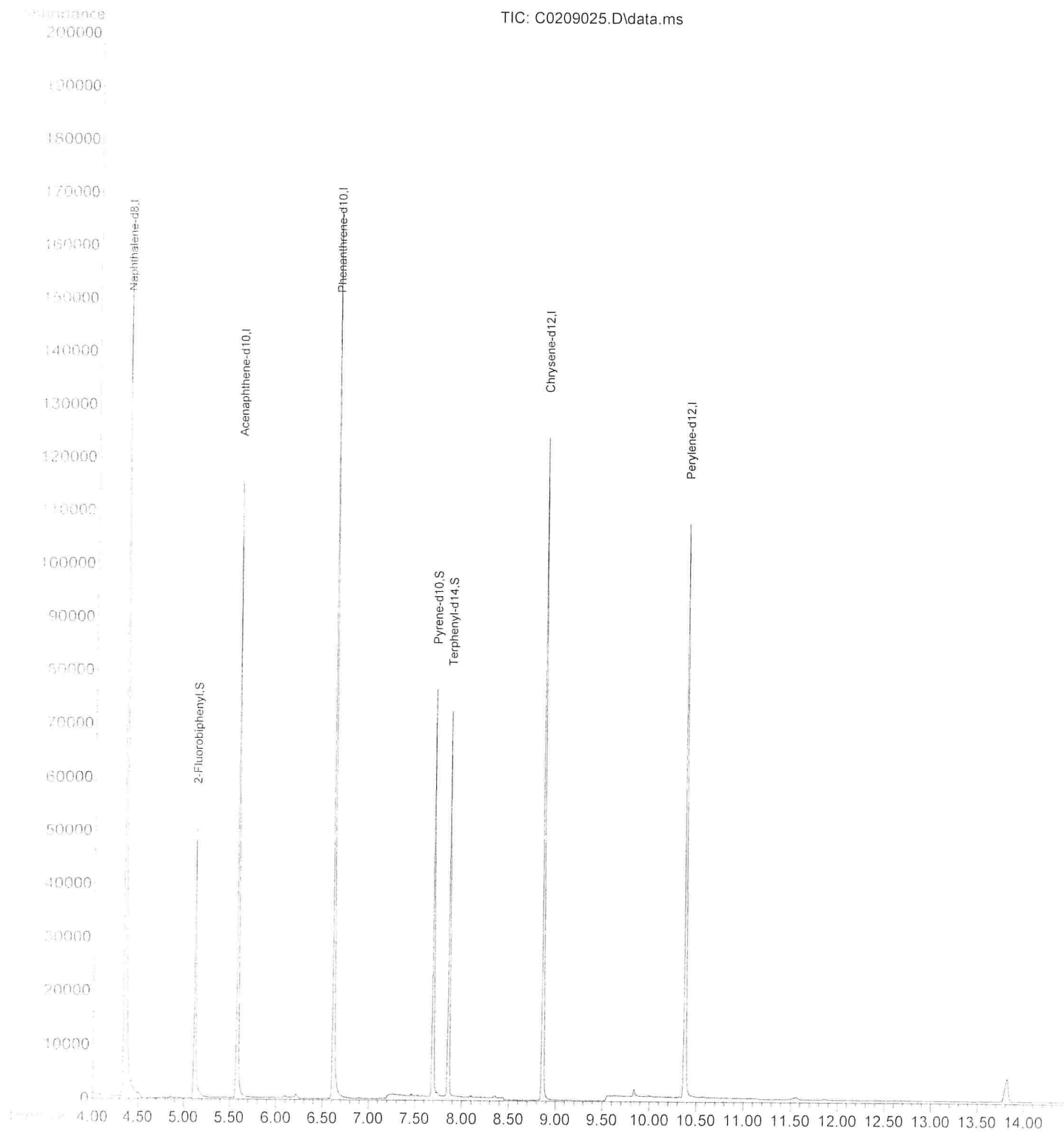
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Naphthalene-d8	4.343	136	212432	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	97431	2000.00	ppb	0.00
9) Phenanthrene-d10	6.609	188	163986	2000.00	ppb	0.00
15) Chrysene-d12	8.859	240	123092	2000.00	ppb	0.00
29) Perylene-d12	10.372	264	128597	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.120	172	59389	691.15	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	69.11%		
10) Pyrene-d10	7.692	212	69413	901.01	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	90.10%		
17) Terphenyl-d14	7.856	244	58949	995.86	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	99.59%#		
Target Compounds						
15) Benzo[a]anthracene	8.859	228	418	Below Cal		Qvalue 71

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

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209025.D
Acq On : 9 Feb 2026 6:30 pm
Operator : JP
Sample : MB0209W2
Vial :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 10 07:36:48 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Coreey\DATA\C260209\
 Data File : C0209023.D
 Acq On : 9 Feb 2026 5:46 pm
 Operator : JP
 Sample : SB0209W2
 Vial : 23 Sample Multiplier: 1

Acq Time: Feb 10 07:39:43 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Last Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

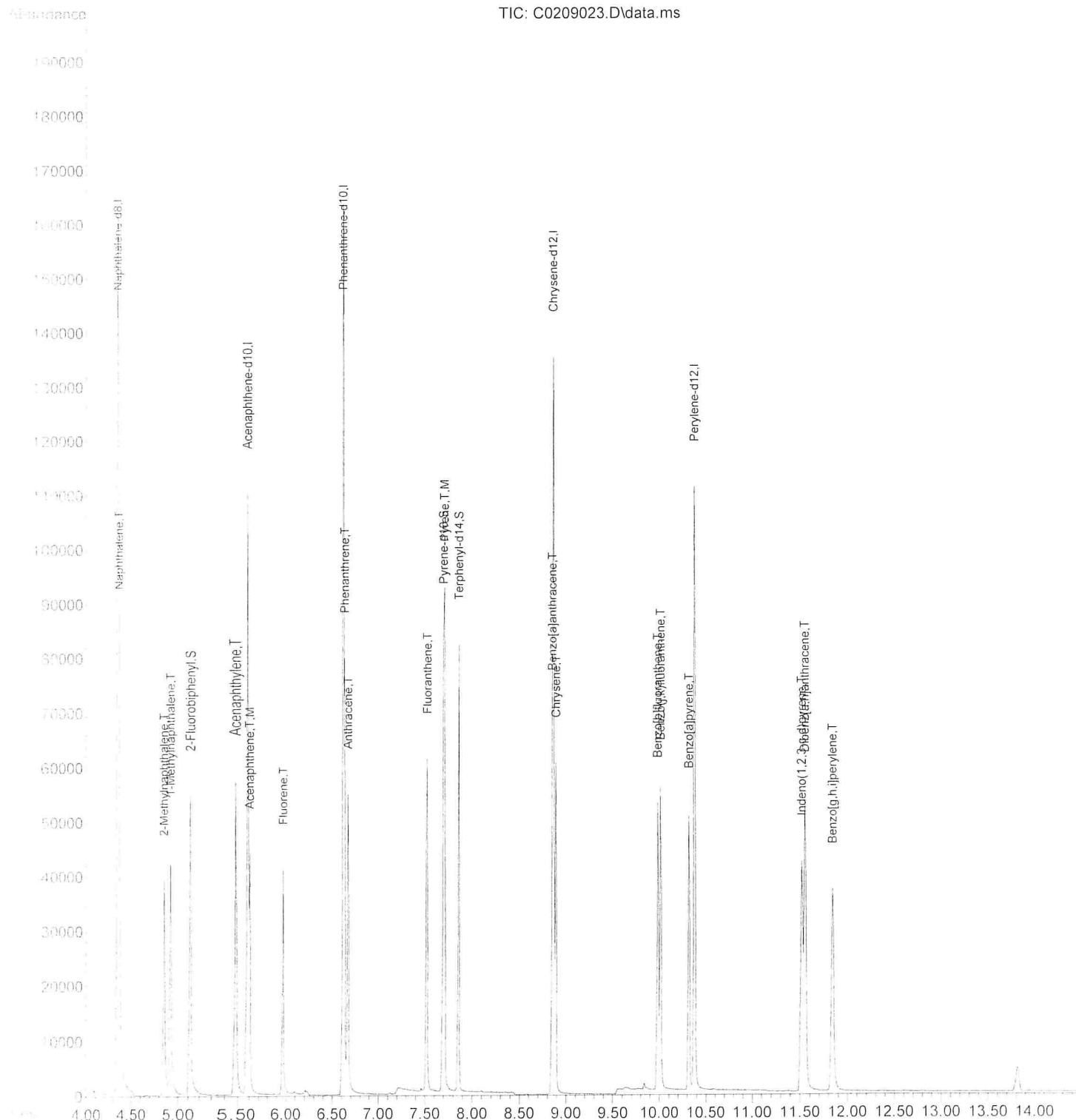
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.343	136	208602	2000.00	ppb	0.00
5) Acenaphthene-d10	5.579	164	94485	2000.00	ppb	0.00
9) Phenanthrene-d10	6.611	188	154394	2000.00	ppb	0.00
16) Chrysene-d12	8.859	240	118842	2000.00	ppb	0.00
26) Perylene-d12	10.374	264	126361	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.120	172	68373	820.52	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	82.05%		
10) Pyrene-d10	7.693	212	66676	919.25	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	91.92%		
17) Terphenyl-d14	7.857	244	61148	1073.62	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	107.36%#		
Target Compounds						
					Qvalue	
2) Naphthalene	4.358	128	46510m	379.86	ppb	
3) 2-Methylnaphthalene	4.853	142	24580	341.36	ppb	99
4) 1-Methylnaphthalene	4.922	142	29357	367.00	ppb	98
7) Acenaphthylene	5.479	152	49995	418.92	ppb	100
8) Acenaphthene	5.602	153	28211	386.71	ppb	100
11) Fluorene	5.964	166	34225	426.80	ppb	100
12) Phenanthrene	6.628	178	44738	438.55	ppb	95
13) Anthracene	6.663	178	44884	441.37	ppb	98
14) Fluoranthene	7.520	202	50790	478.35	ppb	93
15) Pyrene	7.703	202	53834	494.61	ppb	97
18) Benzo[a]anthracene	8.847	228	48238	541.77	ppb	98
19) Chrysene	8.888	228	45988	512.19	ppb	99
21) Benzo[b]fluoranthene	9.979	252	49980	516.86	ppb	88
22) Benzo[j,k]fluoranthene	10.008	252	48375	500.75	ppb	82
23) Benzo[a]pyrene	10.316	252	46080	520.01	ppb	84
24) Indeno(1,2,3-c,d)pyrene	11.513	276	49065m	521.17	ppb	
25) Dibenz[a,h]anthracene	11.544	278	49014	530.28	ppb	73
26) Benzo[g,h,i]perylene	11.837	276	47850	525.93	ppb	67

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

2/13/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209023.D
Acq On : 9 Feb 2026 5:46 pm
Operator : JP
Sample : SB0209W2
Vial : 23 Sample Multiplier: 1

Start Time: Feb 10 07:39:43 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Last Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209024.D
 Acq On : 9 Feb 2026 6:08 pm
 Operator : JP
 Sample : SB0209W2 DUP
 HPLC :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 10 07:40:20 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Qlast Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.344	136	215787	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	97677	2000.00	ppb	0.00
9) Phenanthrene-d10	6.610	188	166742	2000.00	ppb	0.00
16) Chrysene-d12	8.863	240	122223	2000.00	ppb	0.00
20) Perylene-d12	10.373	264	129405	2000.00	ppb	0.00

System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.120	172	64876	753.11	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	75.31%		
10) Pyrene-d10	7.693	212	74428	950.13	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	95.01%		
17) Terphenyl-d14	7.856	244	57110	970.45	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	97.05%#		

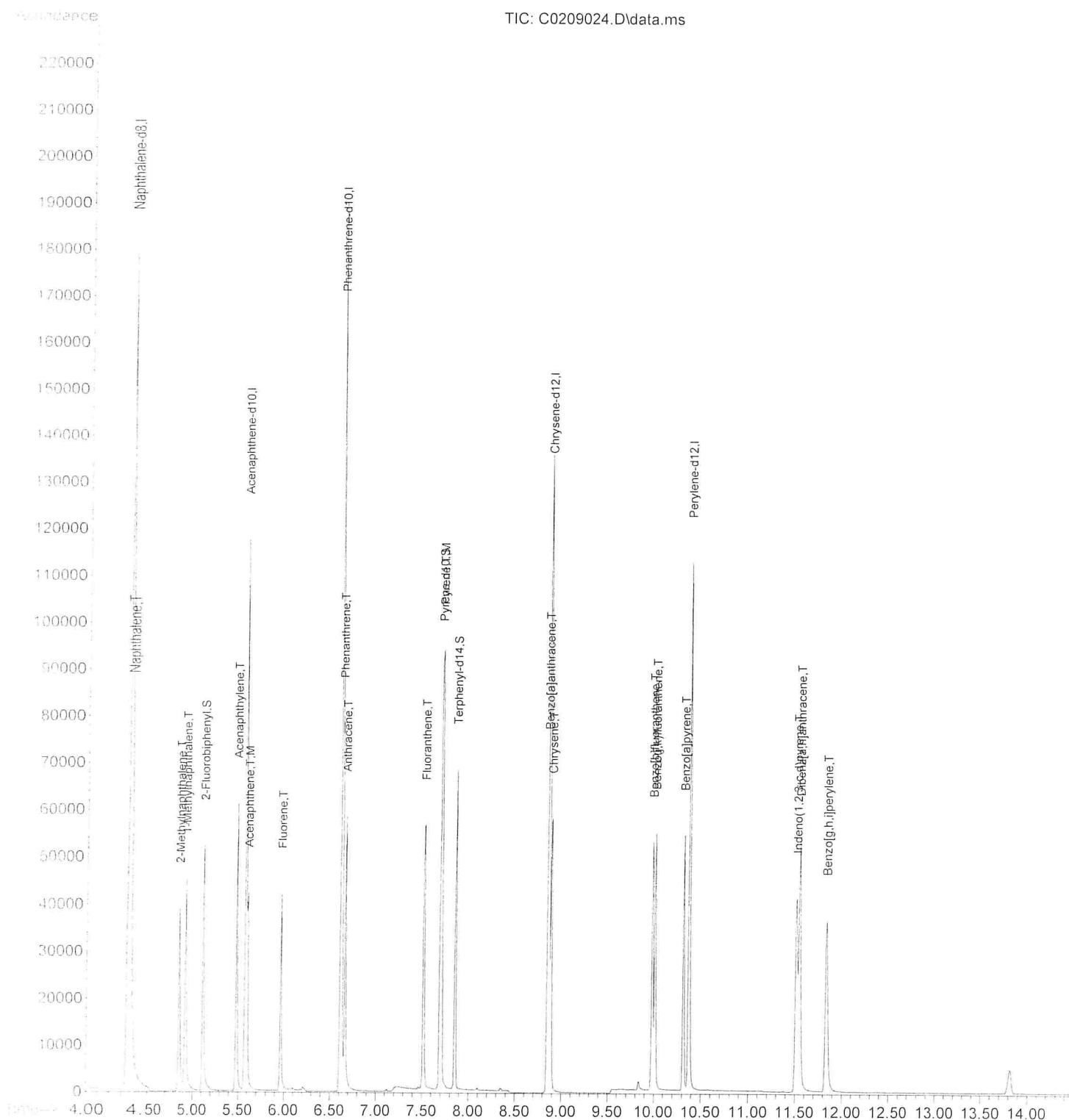
Target Compounds						Qvalue
2) Naphthalene	4.359	128	46901m	370.29	ppb	
3) 2-Methylnaphthalene	4.853	142	24780	332.68	ppb	99
4) 1-Methylnaphthalene	4.923	142	30022	362.82	ppb	99
7) Acenaphthylene	5.480	152	51659	418.71	ppb	100
8) Acenaphthene	5.603	153	29841	395.68	ppb	100
11) Fluorene	5.965	166	35701	412.24	ppb	100
12) Phenanthrene	6.628	178	47375	430.01	ppb	97
13) Anthracene	6.662	178	47669	434.04	ppb	99
14) Fluoranthene	7.520	202	54232	472.94	ppb	92
15) Pyrene	7.702	202	55682	473.70	ppb	98
18) Benzo[a]anthracene	8.846	228	49969	545.74	ppb	97
19) Chrysene	8.887	228	47618	515.67	ppb	98
21) Benzo[b]fluoranthene	9.978	252	51466	519.71	ppb	84
22) Benzo(j,k)fluoranthene	10.007	252	50691	512.39	ppb	86
23) Benzo[a]pyrene	10.315	252	47115	519.18	ppb	82
24) Indeno(1,2,3-c,d)pyrene	11.515	276	51422m	533.35	ppb	
25) Dibenz[a,h]anthracene	11.546	278	50349	531.91	ppb	76
26) Benzo[g,h,i]perylene	11.839	276	48454	520.04	ppb	67

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

✓
2/13/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209024.D
Acq On : 9 Feb 2026 6:08 pm
Operator : JP
Sample : SB0209W2 DUP
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 10 07:40:20 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Method File : C:\msdchem\1\METHOD3
Method File : CS260209.M
Title : PAH'S BY SIMS
Last Update : Tue Feb 10 07:27:37 2026
Response Via : Initial Calibration

Calibration Files

10 =C0209014.D 20 =C0209015.D 50 =C0209016.D 100 =C0209017.D 200 =C0209018.D 500 =C0209019.D 1000=C0209020.D
5000=C0209021.D

Compound		10	20	50	100	200	500	1000	5000	Avg	%RSD

1) I	Naphthalene-d8	-----ISTD-----									
2) T	Naphthalene	1.289	1.222	1.189	1.202	1.138	1.140	1.037	1.174	6.76	
3) T	2-Methylnaphth...	0.771	0.713	0.703	0.705	0.680	0.647	0.613	0.690	7.37	
4) T	1-Methylnaphth...	0.856	0.813	0.814	0.789	0.744	0.701	0.651	0.767	9.41	

5) I	Acenaphthene-d10	-----ISTD-----									
6) S	2-Fluorobiphenyl	2.031	1.771	1.845	1.803	1.789	1.648	1.459	1.764	9.99	
7) T	Acenaphthylene	2.970	2.709	2.638	2.643	2.463	2.285	1.976	2.526	12.74	
8) T,M	Acenaphthene	1.728	1.601	1.612	1.603	1.531	1.444	1.291	1.544	9.14	

9) I	Phenanthrene-d10	-----ISTD-----									
10) S	Pyrene-d10	0.900	1.040	1.012	0.999	0.919	0.872	0.835	0.940	8.29	
11) T	Fluorene	1.223	1.081	1.079	1.073	0.989	0.923	0.903	1.039	10.60	
12) T	Phenanthrene	1.546	1.411	1.365	1.355	1.261	1.198	1.114	1.321	10.85	
13) T	Anthracene	1.523	1.363	1.355	1.350	1.281	1.210	1.140	1.317	9.35	
14) T	Fluoranthene	1.505	1.510	1.365	1.445	1.321	1.263	1.219	1.375	8.38	
15) T,M	Pyrene	1.584	1.558	1.467	1.450	1.324	1.260	1.226	1.410	10.05	

16) I	Chrysene-d12	-----ISTD-----									
17) S	Terphenyl-d14		1.414	1.421	1.417	1.056	1.017	0.901	1.205	19.82	
18) T	Benzo[a]anthra...	2.460	1.710	1.671	1.697	1.493	1.431	1.282	1.678	22.63	
19) T	Chrysene	1.635	1.600	1.563	1.622	1.475	1.421	1.260	1.511	8.98	

20) I	Perylene-d12	-----ISTD-----									
21) T	Benzo[b]fluora...	1.715	1.581	1.520	1.537	1.500	1.374	1.486	1.531	6.75	
22) T	Benzo(j,k)fluo...	1.768	1.621	1.606	1.524	1.401	1.366	1.417	1.529	9.53	
23) T	Benzo[a]pyrene	1.581	1.458	1.288	1.432	1.368	1.293	1.399	1.403	7.25	
24) T	Indeno(1,2,3-c...	1.816	1.487	1.278	1.521	1.471	1.373	1.485	1.490	11.17	
25) T	Dibenz[a,h]ant...	1.745	1.513	1.276	1.462	1.421	1.356	1.468	1.463	10.07	
26) T	Benzo[g,h,i]pe...	1.701	1.522	1.358	1.274	1.439	1.364	1.421	1.440	9.62	

(#) = Out of Range											

Compound List Report Corey

Method Path : C:\msdchem\1\METHODS\
 Method File : CS260209.M
 Title : PAH'S BY SIMS
 Last Update : Tue Feb 10 07:27:37 2026
 Response Via : Initial Calibration

Total Cpnds : 26

PE#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8	136	4.343	1.000	A	0	A	R
2	T	Naphthalene	128	4.359	1.004	A	1	A	R
3	T	2-Methylnaphthalene	142	4.859	1.119	A	1	A	R
4	T	1-Methylnaphthalene	142	4.923	1.133	A	1	A	R
5	I	Acenaphthene-d10	164	5.580	1.000	A	0	A	R
6	S	2-Fluorobiphenyl	172	5.120	0.918	A	0	A	R
7	T	Acenaphthylene	152	5.480	0.982	A	0	A	R
8	T	Acenaphthene	153	5.603	1.004	A	0	A	R
9	I	Phenanthrene-d10	188	6.615	1.000	A	0	A	R
10	S	Pyrene-d10	212	7.692	1.163	A	0	A	R
11	T	Fluorene	166	5.965	0.902	A	0	A	R
12	T	Phenanthrene	178	6.627	1.002	A	1	A	R
13	T	Anthracene	178	6.662	1.007	A	1	A	R
14	T	Fluoranthene	202	7.509	1.135	A	1	A	R
15	T	Pyrene	202	7.701	1.164	A	1	A	R
16	I	Chrysene-d12	240	8.859	1.000	A	0	A	R
17	S	Terphenyl-d14	244	7.855	0.887	L	0	A	R
18	T	Benzo[a]anthracene	228	8.847	0.999	L	1	A	R
19	T	Chrysene	228	8.882	1.003	A	1	A	R
20	I	Perylene-d12	264	10.373	1.000	A	0	A	R
21	T	Benzo[b]fluoranthene	252	9.978	0.962	A	1	A	R
22	T	Benzo(j,k)fluoranthene	252	10.007	0.965	A	1	A	R
23	T	Benzo[a]pyrene	252	10.315	0.994	A	1	A	R
24	T	Indeno(1,2,3-c,d)pyrene	276	11.515	1.110	A	1	A	R
25	T	Dibenz[a,h]anthracene	278	11.545	1.113	A	1	A	R
26	T	Benzo[g,h,i]perylene	276	11.839	1.141	A	1	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209014.D
 Acq On : 9 Feb 2026 2:29 pm
 Operator : JP
 Sample : 10 PPB ICAL
 Misc : SV7-035-22
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 10 07:27:55 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Qlast Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

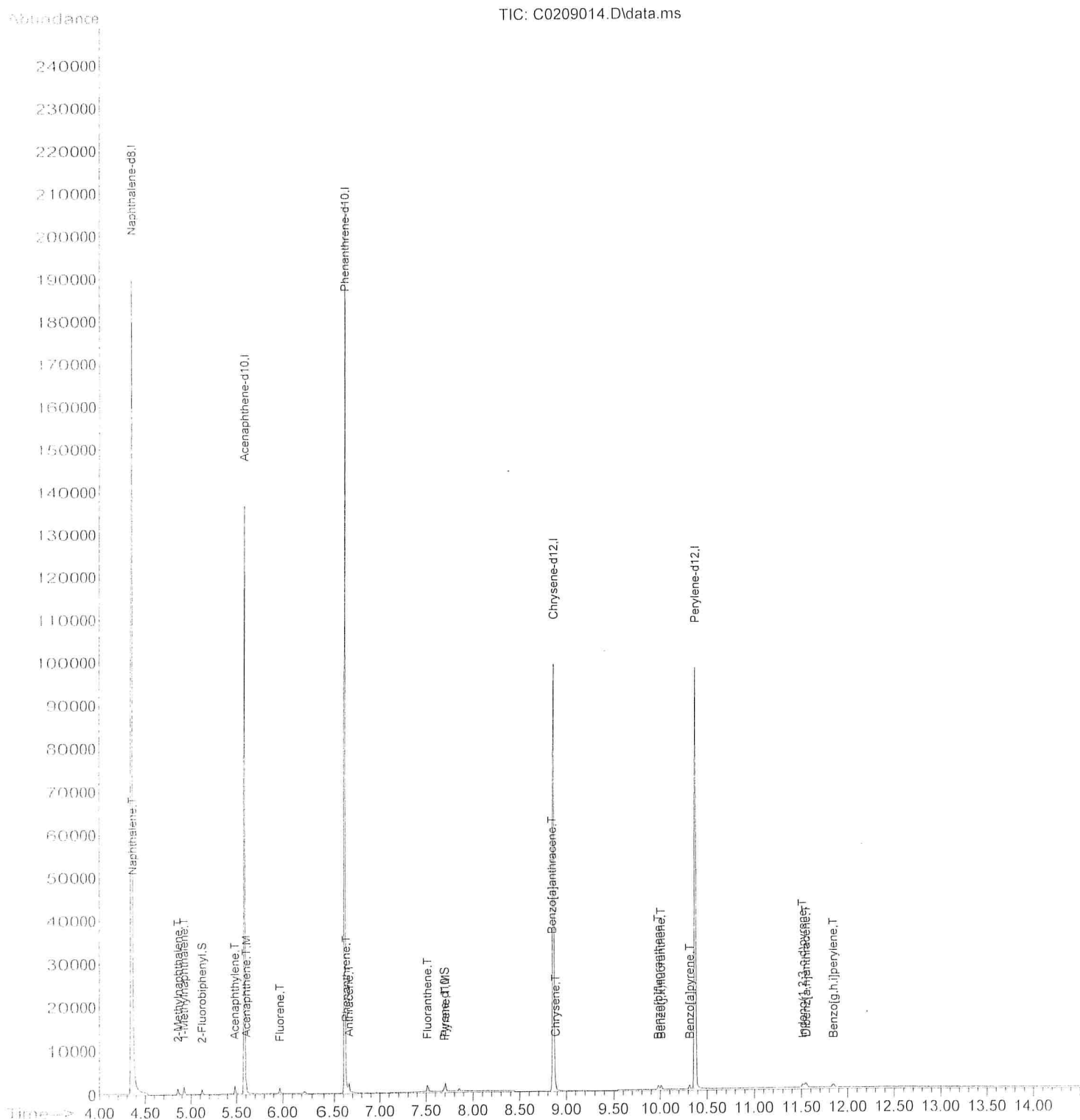
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.344	136	200398	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	92466	2000.00	ppb	0.00
9) Phenanthrene-d10	6.611	188	147508	2000.00	ppb	0.00
16) Chrysene-d12	8.859	240	96273	2000.00	ppb	0.00
20) Perylene-d12	10.373	264	101232	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.119	172	939	11.51	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	1.15%	#	
10) Pyrene-d10	7.694	212	664	9.58	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	0.96%	#	
17) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount 1000.000	Range 39 - 92		Recovery =	0.00%	#	
Target Compounds						
2) Naphthalene	4.360	128	1292	10.98	ppb	Qvalue 100
3) 2-Methylnaphthalene	4.858	142	773	11.17	ppb	98
4) 1-Methylnaphthalene	4.922	142	858	11.17	ppb	98
7) Acenaphthylene	5.480	152	1373	11.76	ppb	100
8) Acenaphthene	5.604	153	799	11.19	ppb	100
11) Fluorene	5.966	166	902	11.77	ppb	100
12) Phenanthrene	6.628	178	1140	11.70	ppb	98
13) Anthracene	6.663	178	1123	11.56	ppb	98
14) Fluoranthene	7.511	202	1110	10.94	ppb	# 1
15) Pyrene	7.703	202	1168	11.23	ppb	91
18) Benzo[a]anthracene	8.847	228	1184	9.85	ppb	91
19) Chrysene	8.882	228	787	10.82	ppb	94
21) Benzo[b]fluoranthene	9.978	252	868	11.20	ppb	76
22) Benzo(j,k)fluoranthene	10.007	252	895	11.56	ppb	79
23) Benzo[a]pyrene	10.315	252	800	11.27	ppb	# 46
24) Indeno(1,2,3-c,d)pyrene	11.513	276	919m	12.18	ppb	
25) Dibenz[a,h]anthracene	11.552	278	883	11.92	ppb	# 55
26) Benzo[g,h,i]perylene	11.845	276	861	11.81	ppb	# 30

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

JP
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209014.D
Acq On : 9 Feb 2026 2:29 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV7-035-22
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 10 07:27:55 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Quant Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209016.D
 Acq On : 9 Feb 2026 3:13 pm
 Operator : JP
 Sample : 50 PPB ICAL
 Misc : SV7-035-20
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 10 07:28:49 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Quant Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

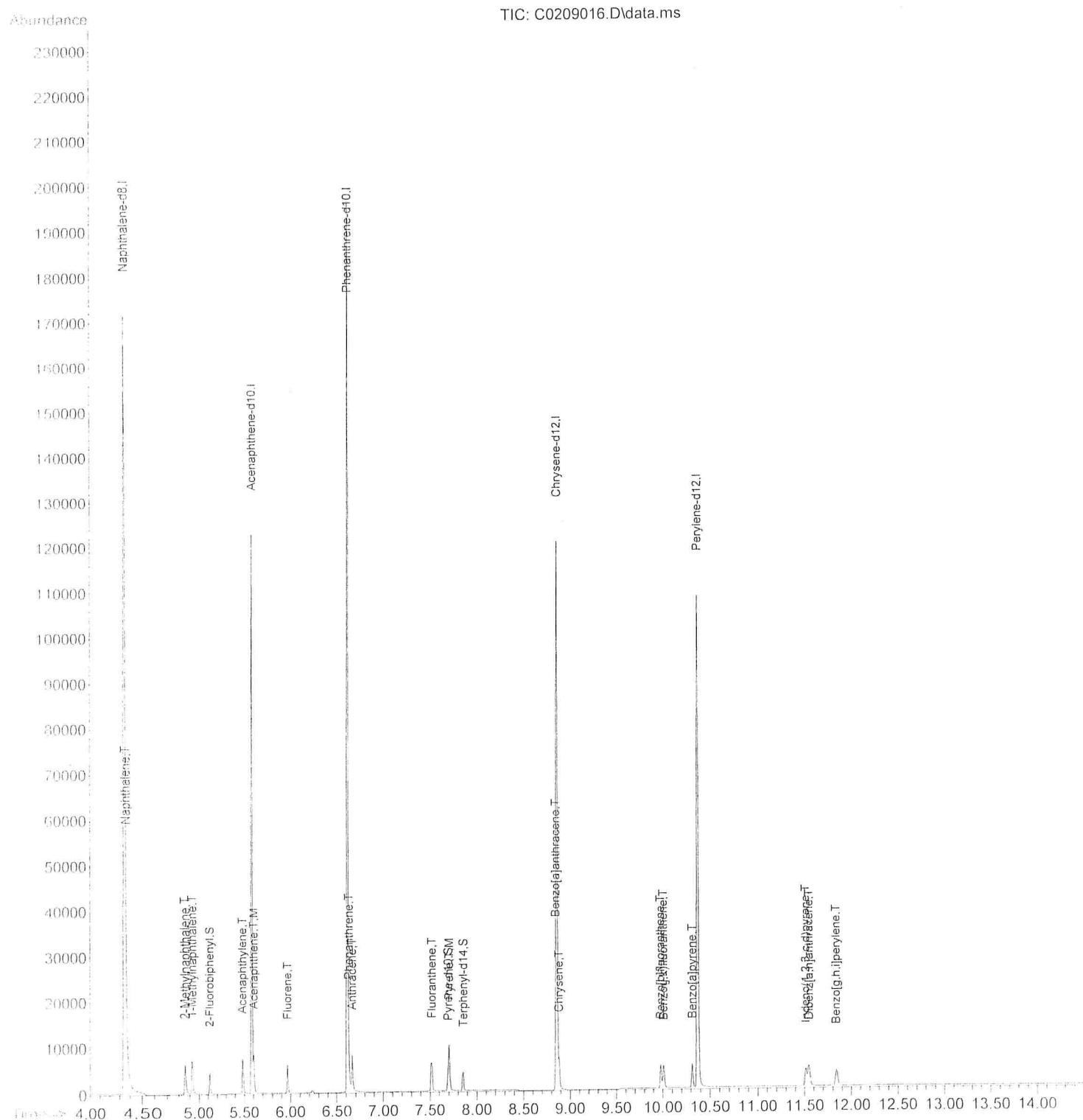
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.344	136	194828	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	90796	2000.00	ppb	0.00
9) Phenanthrene-d10	6.611	188	156617	2000.00	ppb	0.00
16) Chrysene-d12	8.858	240	115057	2000.00	ppb	0.00
20) Perylene-d12	10.373	264	120572	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.119	172	4020	50.20	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	5.02%#		
10) Pyrene-d10	7.693	212	4073	55.36	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	5.54%#		
17) Terphenyl-d14	7.857	244	4067	27.75	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	2.77%#		
Target Compounds						
1) Naphthalene	4.360	128	5983m	52.32	ppb	
3) 2-Methylnaphthalene	4.858	142	3474	51.66	ppb	99
4) 1-Methylnaphthalene	4.928	142	3962	53.03	ppb	98
7) Acenaphthylene	5.480	152	6312	55.04	ppb	100
8) Acenaphthene	5.603	153	3634	51.84	ppb	100
11) Fluorene	5.965	166	4233	52.04	ppb	100
12) Phenanthrene	6.628	178	5526	53.40	ppb	99
13) Anthracene	6.663	178	5335	51.72	ppb	99
14) Fluoranthene	7.520	202	5911	54.88	ppb	83
15) Pyrene	7.703	202	6102	55.27	ppb	99
18) Benzo[a]anthracene	8.847	228	4920	51.02	ppb	100
19) Chrysene	8.881	228	4602	52.94	ppb	99
21) Benzo[b]fluoranthene	9.978	252	4767	51.66	ppb	83
22) Benzo(j,k)fluoranthene	10.007	252	4886	53.01	ppb	88
23) Benzo[a]pyrene	10.315	252	4396	51.99	ppb	81
24) Indeno(1,2,3-c,d)pyrene	11.513	276	4536m	50.49	ppb	
25) Dibenz[a,h]anthracene	11.552	278	4562	51.73	ppb	80
26) Benzo[g,h,i]perylene	11.837	276	4587	52.84	ppb	69

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

JP
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209016.D
Acq On : 9 Feb 2026 3:13 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV7-035-20
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 10 07:28:49 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Qlast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209017.D
 Acq On : 9 Feb 2026 3:35 pm
 Operator : JP
 Sample : 100 PPB ICAL
 Misc : SV7-035-19
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 10 07:29:22 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Quant Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.344	136	199823	2000.00	ppb	0.00
5) Acenaphthene-d10	5.579	164	92321	2000.00	ppb	0.00
9) Phenanthrene-d10	6.615	188	159686	2000.00	ppb	0.00
16) Chrysene-d12	8.858	240	114574	2000.00	ppb	0.00
20) Perylene-d12	10.378	264	120591	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.119	172	8640m	106.12	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	10.61%#		
10) Pyrene-d10	7.694	212	8081	107.72	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	10.77%#		
17) Terphenyl-d14	7.857	244	8143	105.72	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	10.57%#		
Target Compounds						
2) Naphthalene	4.359	128	11889m	101.37	ppb	Qvalue
3) 2-Methylnaphthalene	4.858	142	7024	101.83	ppb	100
4) 1-Methylnaphthalene	4.928	142	8136	106.18	ppb	96
7) Acenaphthylene	5.479	152	12177	104.42	ppb	100
8) Acenaphthene	5.603	153	7441	104.39	ppb	100
11) Fluorene	5.965	166	8619	103.92	ppb	100
12) Phenanthrene	6.626	178	10902	103.33	ppb	98
13) Anthracene	6.667	178	10820	102.87	ppb	99
14) Fluoranthene	7.521	202	10898	99.24	ppb	90
15) Pyrene	7.703	202	11711	104.03	ppb	99
18) Benzo[a]anthracene	8.847	228	9572	106.13	ppb	100
19) Chrysene	8.882	228	8956	103.46	ppb	99
21) Benzo[b]fluoranthene	9.983	252	9164	99.30	ppb	82
22) Benzo(j,k)fluoranthene	10.012	252	9686	105.06	ppb	87
23) Benzo[a]pyrene	10.314	252	7765	91.82	ppb	79
24) Indeno(1,2,3-c,d)pyrene	11.514	276	7761m	86.38	ppb	
25) Dibenz[a,h]anthracene	11.552	278	7693	87.21	ppb	68
26) Benzo[g,h,i]perylene	11.838	276	8190	94.33	ppb	62

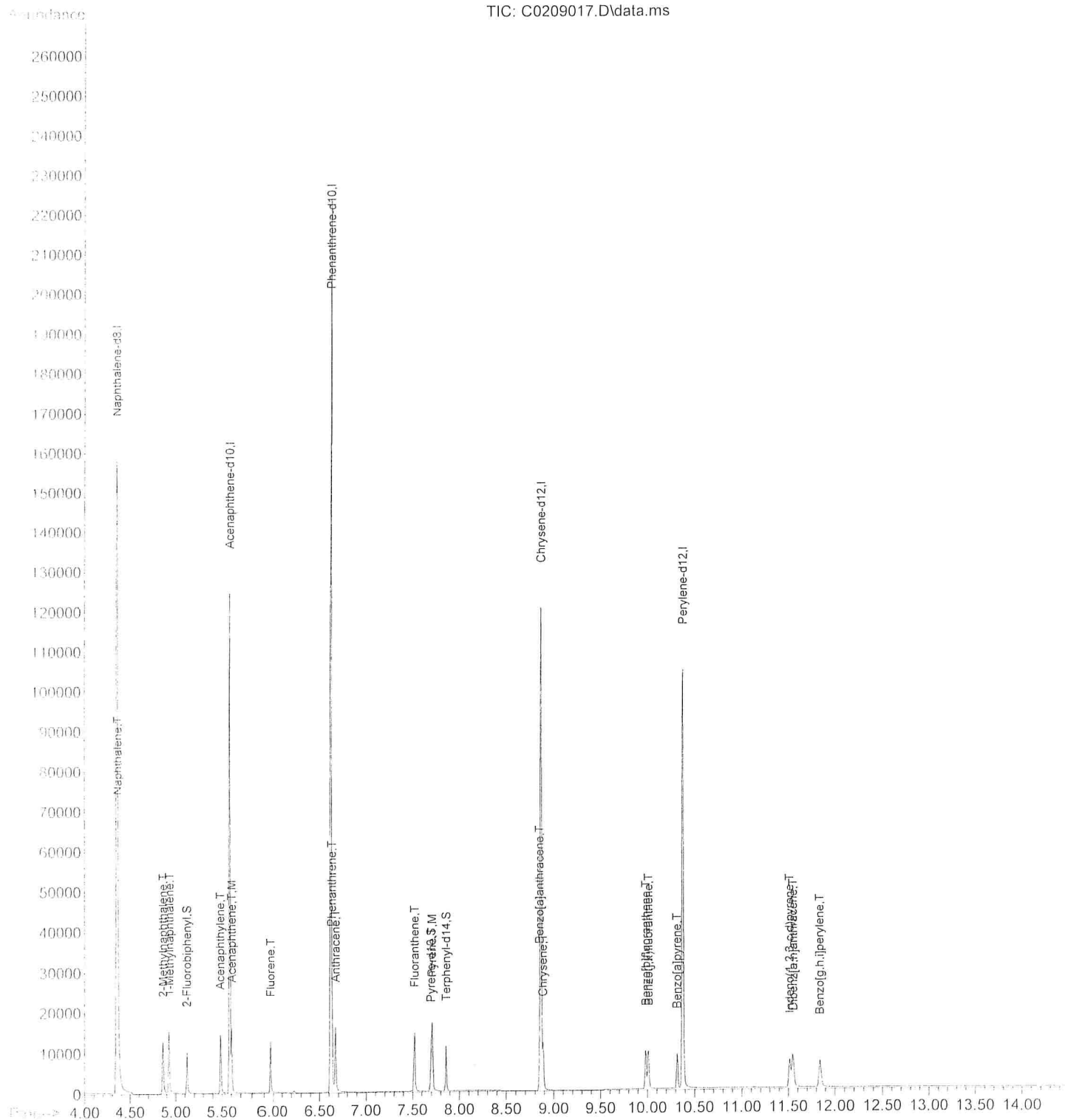
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209017.D
Acq On : 9 Feb 2026 3:35 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV7-035-19
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 10 07:29:22 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Last Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration

TIC: C0209017.D\data.ms



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C02 O9018.D
 Acq On : 9 Feb 2026 3:57 pm
 Operator : JP
 Sample : 200 PPB ICAL
 Misc : SV7 -035-18
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 10 07:30:00 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Quant Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.351	136	215382	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	98077	2000.00	ppb	0.00
9) Phenanthrene-d10	6.616	188	170657	2000.00	ppb	0.00
16) Chrysene-d12	8.858	240	107966	2000.00	ppb	0.00
30) Perylene-d12	10.373	264	131666	2000.00	ppb	0.00

System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.119	172	17761m	205.34	ppb	0.00
Spiked Amount 1000.000	Range 25	- 89	Recovery	=	20.53%#	
10) Pyrene-d10	7.693	212	17046	212.61	ppb	0.00
Spiked Amount 1000.000	Range 40	- 110	Recovery	=	21.26%#	
17) Terphenyl -d14	7.856	244	15301	259.92	ppb	0.00
Spiked Amount 1000.000	Range 39	- 92	Recovery	=	25.99%#	

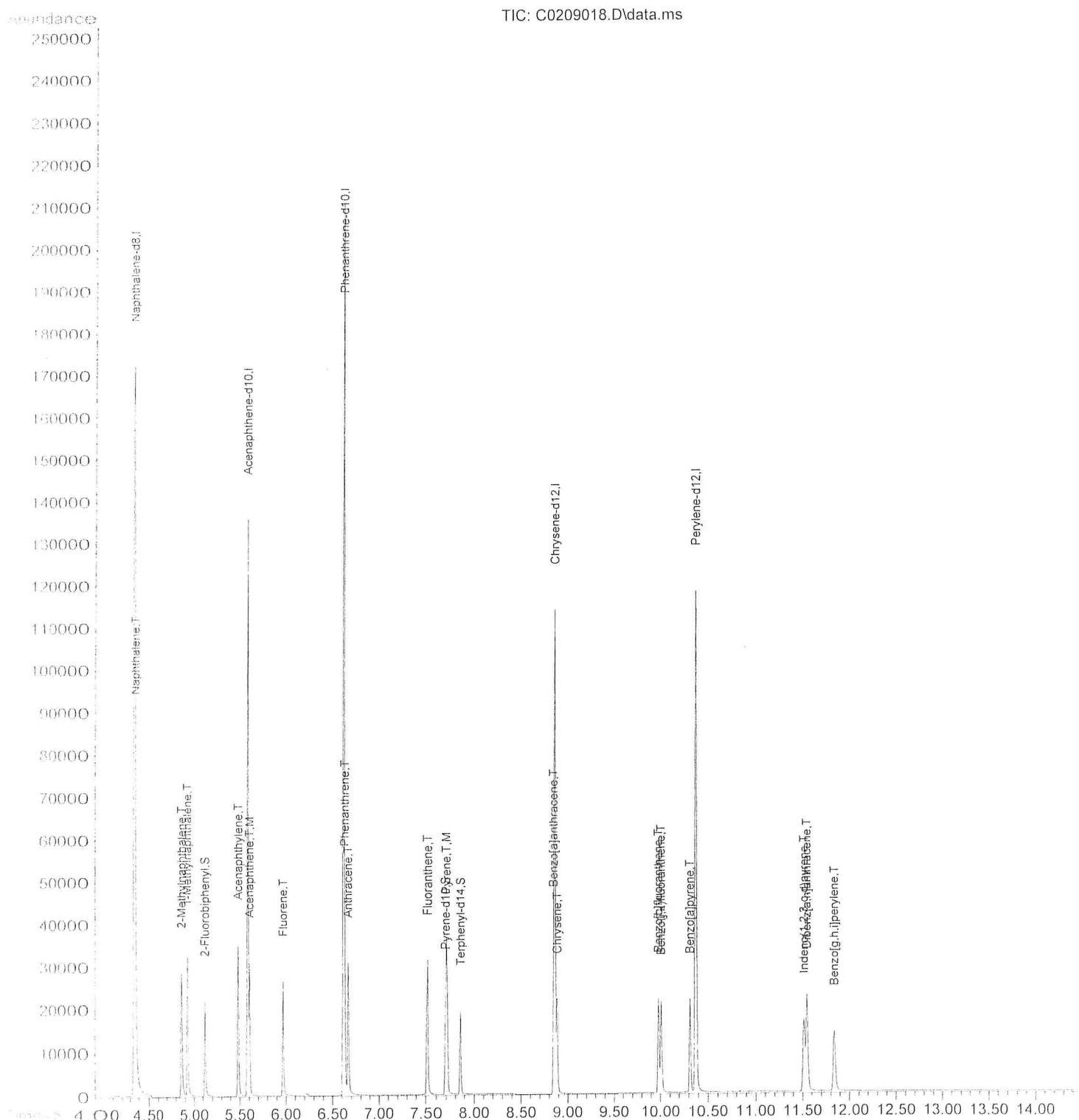
Target Compounds						Qvalue
2) Naphthalene	4.359	128	25787m	203.98	ppb	
3) 2-Methylnaphthalene	4.858	142	15191	204.33	ppb	99
4) 1-Methylnaphthalene	4.922	142	16984	205.64	ppb	98
7) Acenaphthylene	5.480	152	25923	209.26	ppb	100
8) Acenaphthene	5.604	153	15717	207.55	ppb	100
11) Fluorene	5.966	166	18306	206.53	ppb	100
12) Phenanthrene	6.628	178	23117	205.01	ppb	98
13) Anthracene	6.662	178	23036	204.94	ppb	99
14) Fluoranthene	7.520	202	24653	210.06	ppb	93
15) Pyrene	7.702	202	24741	205.65	ppb	99
18) Benzo[a]anthracene	8.846	228	18327	222.63	ppb	97
19) Chrysene	8.887	228	17511	214.67	ppb	99
21) Benzo[b]fluoranthene	9.978	252	20234	200.82	ppb	87
22) Benzo(j,k)fluoranthene	10.007	252	20067	199.35	ppb	82
23) Benzo[a]pyrene	10.315	252	18851	204.16	ppb	83
24) Indeno(1,2,3-c,d)pyrene	11.515	276	19961m	203.48	ppb	
25) Dibenz[a,h]anthracene	11.545	278	19253	199.90	ppb	75
26) Benzo[g,h,i]perylene	11.839	276	16779	176.99	ppb #	56

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

JP
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209018.D
Acq On : 9 Feb 2026 3:57 pm
Operator : JP
Sample : 200 PPB ICAL
Nisc : SV7-035-18
Vial : 18 Sample Multiplier: 1

Quant Time: Feb 10 07:30:00 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Last Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209019.D
 Acq On : 9 Feb 2026 4:19 pm
 Operator : JP
 Sample : 500 PPB ICAL
 Misc : SV7-035-17
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 10 07:30:30 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 QLast Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.344	136	207237	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	94342	2000.00	ppb	0.00
9) Phenanthrene-d10	6.615	188	165152	2000.00	ppb	0.00
16) Chrysene-d12	8.859	240	121449	2000.00	ppb	0.00
20) Perylene-d12	10.373	264	128151	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.120	172	42195	507.13	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	50.71%		
10) Pyrene-d10	7.692	212	37945	489.06	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	48.91%		
17) Terphenyl-d14	7.855	244	32077	527.07	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	52.71%		
Target Compounds						
					Qvalue	
2) Naphthalene	4.359	128	59008m	485.10	ppb	
3) 2-Methylnaphthalene	4.859	142	35233	492.54	ppb	98
4) 1-Methylnaphthalene	4.923	142	38564	485.27	ppb	99
7) Acenaphthylene	5.480	152	58083	487.42	ppb	100
8) Acenaphthene	5.603	153	36110	495.73	ppb	100
11) Fluorene	5.965	166	40830	476.00	ppb	100
12) Phenanthrene	6.627	178	52057	477.06	ppb	98
13) Anthracene	6.662	178	52898	486.29	ppb	99
14) Fluoranthene	7.509	202	54559	480.37	ppb	94
15) Pyrene	7.702	202	54677	469.63	ppb	98
18) Benzo[a]anthracene	8.847	228	45326	497.59	ppb	97
19) Chrysene	8.882	228	44796	488.20	ppb	100
21) Benzo[b]fluoranthene	9.978	252	48064	490.11	ppb	87
22) Benzo[j,k]fluoranthene	10.007	252	44870	457.98	ppb	81
23) Benzo[a]pyrene	10.315	252	43820	487.60	ppb	83
24) Indeno(1,2,3-c,d)pyrene	11.515	276	47189m	494.24	ppb	
25) Dibenz[a,h]anthracene	11.545	278	45517	485.56	ppb	75
26) Benzo[g,h,i]perylene	11.839	276	46112	499.75	ppb	69

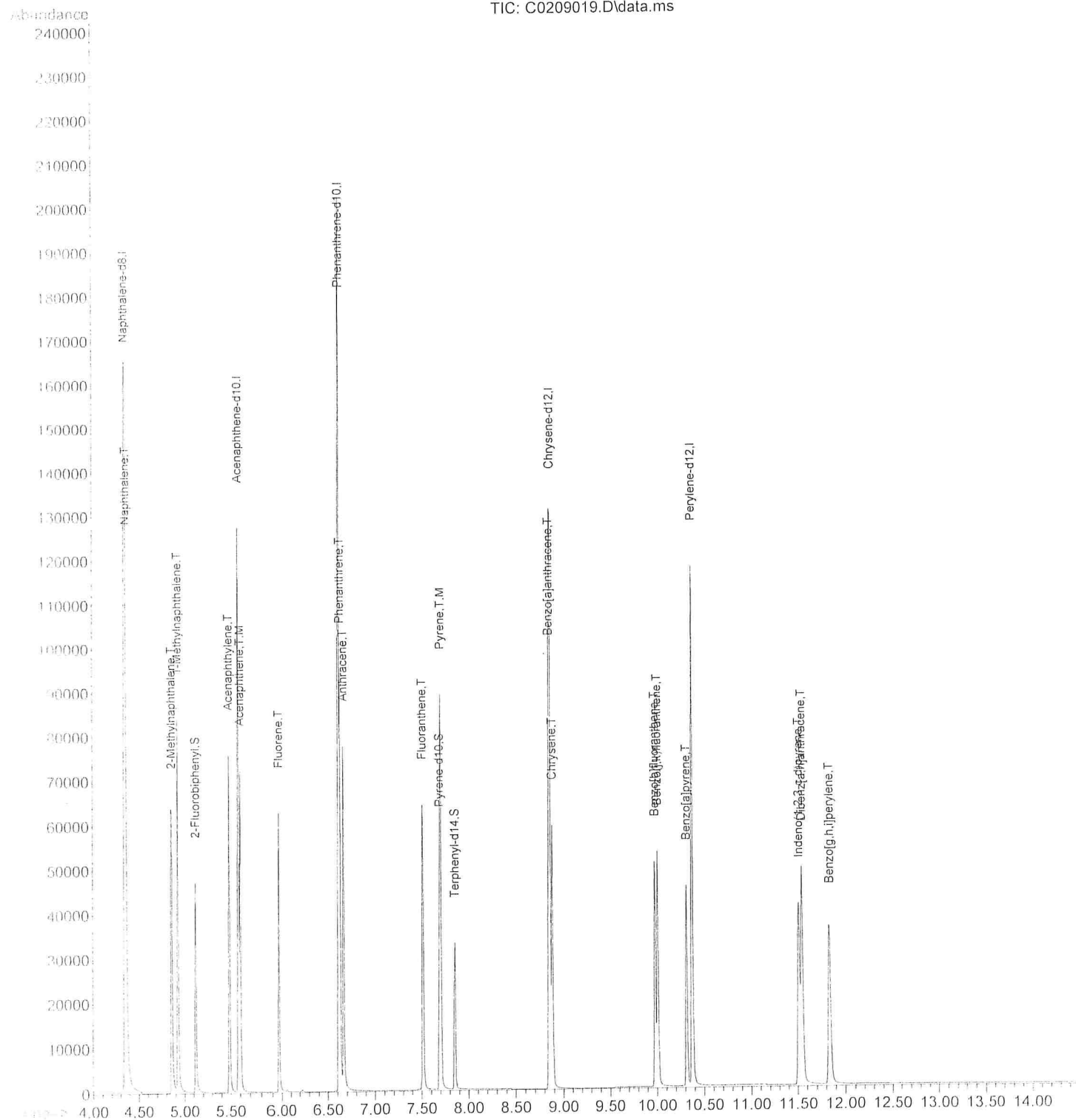
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209019.D
Acq On : 9 Feb 2026 4:19 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV7-035-17
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 10 07:30:30 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Qlast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration

TIC: C0209019.D\data.ms



Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209020.D
 Acq On : 9 Feb 2026 4:41 pm
 Operator : JP
 Sample : 1000 PPB ICAL
 Misc : SV7-035-16
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 10 07:30:42 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 QLast Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

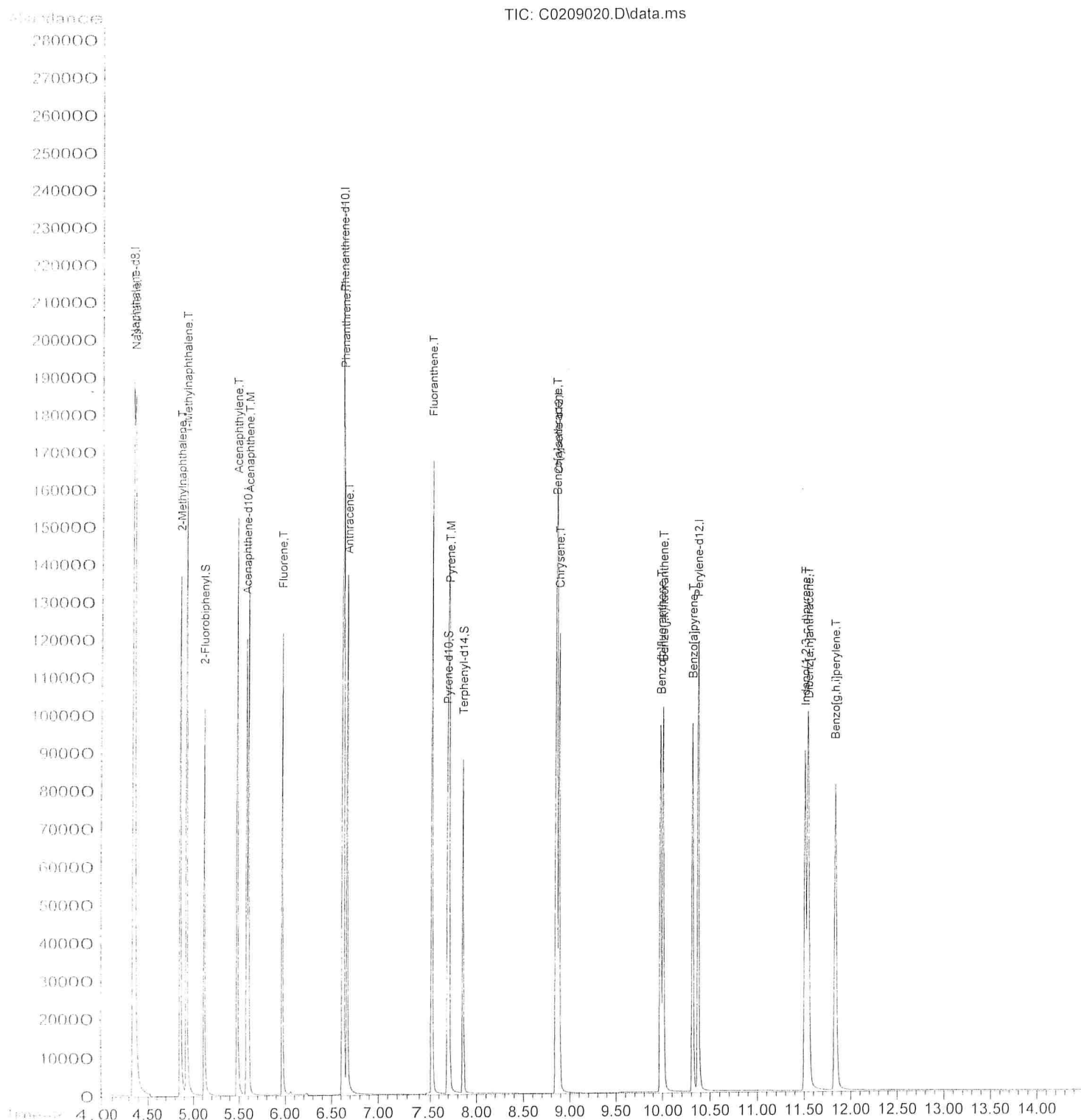
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.345	136	217008	2000.00	ppb	0.00
5) Acenaphthene-d10	5.579	164	98665	2000.00	ppb	0.00
9) Phenanthrene-d10	6.617	188	171489	2000.00	ppb	0.00
16) Chrysene-d12	8.864	240	126042	2000.00	ppb	0.00
20) Perylene-d12	10.374	264	134927	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.119	172	81287	934.16	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	93.42%#		
10) Pyrene-d10	7.693	212	74741	927.72	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	92.77%		
17) Terphenyl-d14	7.857	244	64086	1060.35	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	106.04%#		
Target Compounds						Qvalue
2) Naphthalene	4.360	128	123656	970.80	ppb	97
3) 2-Methylnaphthalene	4.858	142	70154	936.55	ppb	99
4) 1-Methylnaphthalene	4.922	142	76054	913.94	ppb	99
7) Acenaphthylene	5.479	152	112746	904.69	ppb	100
8) Acenaphthene	5.603	153	71219	934.88	ppb	100
11) Fluorene	5.965	166	79143	888.56	ppb	100
12) Phenanthrene	6.628	178	102750	906.82	ppb	97
13) Anthracene	6.669	178	103712	918.19	ppb	97
14) Fluoranthene	7.520	202	108318	918.46	ppb	93
15) Pyrene	7.713	202	108046	893.73	ppb	97
18) Benzo[a]anthracene	8.852	228	90181	960.15	ppb	96
19) Chrysene	8.887	228	89576	940.66	ppb	100
21) Benzo[b]fluoranthene	9.985	252	92718	897.96	ppb	86
22) Benzo(j,k)fluoranthene	10.008	252	92139	893.23	ppb	80
23) Benzo[a]pyrene	10.316	252	87222	921.80	ppb	82
24) Indeno(1,2,3-c,d)pyrene	11.513	276	92618m	921.33	ppb	
25) Dibenz[a,h]anthracene	11.552	278	91457	926.64	ppb	74
26) Benzo[g,h,i]perylene	11.837	276	92016	947.17	ppb	68

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

W
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209020.D
Acq On : 9 Feb 2026 4:41 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV7-035-16
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 10 07:30:42 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Coreey\DATA\C260209\
 Data File : C0209021.D
 Acq On : 9 Feb 2026 5:03 pm
 Operator : JP
 Sample : 5000 PPB ICAL
 Misc : SV7-035-15
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 10 07:31:04 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Qlast Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

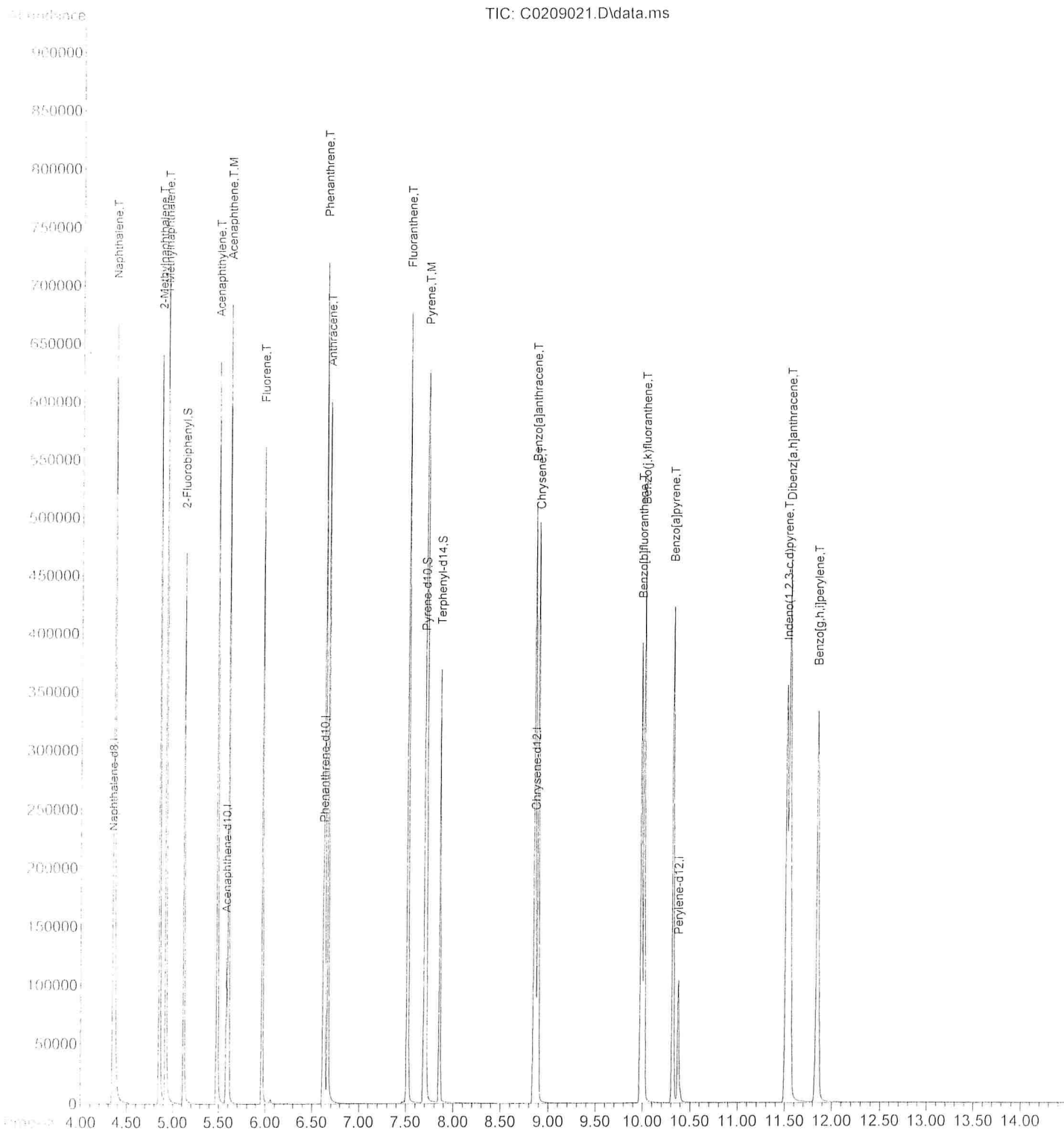
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.344	136	205586	2000.00	ppb	0.00
5) Acenaphthene-d10	5.579	164	96332	2000.00	ppb	0.00
9) Phenanthrene-d10	6.616	188	153963	2000.00	ppb	0.00
16) Chrysene-d12	8.864	240	122745	2000.00	ppb	0.00
20) Perylene-d12	10.379	264	112931	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.119	172	351488	4137.18	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	413.72%#		
10) Pyrene-d10	7.693	212	321360	4442.93	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	444.29%#		
17) Terphenyl-d14	7.857	244	276610	4869.20	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	486.92%#		
Target Compounds						
					Qvalue	
2) Naphthalene	4.359	128	533028	4417.20	ppb	95
3) 2-Methylnaphthalene	4.858	142	314990	4438.73	ppb	99
4) 1-Methylnaphthalene	4.922	142	334415	4241.94	ppb	100
7) Acenaphthylene	5.479	152	475765	3910.07	ppb	100
8) Acenaphthene	5.602	153	310934	4180.45	ppb	100
11) Fluorene	5.964	166	347640	4347.36	ppb	100
12) Phenanthrene	6.628	178	428810	4215.25	ppb	91
13) Anthracene	6.668	178	438888	4327.92	ppb	93
14) Fluoranthene	7.520	202	469200	4431.38	ppb	91
15) Pyrene	7.712	202	472088	4349.51	ppb	94
18) Benzo[a]anthracene	8.852	228	393414	4324.71	ppb	93
19) Chrysene	8.893	228	386764	4170.60	ppb	96
21) Benzo[b]fluoranthene	9.984	252	419568	4854.90	ppb	82
23) Benzo(j,k)fluoranthene	10.019	252	400111	4634.30	ppb	77
23) Benzo[a]pyrene	10.321	252	394922	4986.63	ppb	78
24) Indeno(1,2,3-c,d)pyrene	11.528	276	419914m	4990.74	ppb	
25) Dibenz[a,h]anthracene	11.559	278	414541	5018.21	ppb	70
26) Benzo[g,h,i]perylene	11.852	276	401308	4935.45	ppb	63

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

UP
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209021.D
Acq On : 9 Feb 2026 5:03 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV7-035-15
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 10 07:31:04 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Last Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209022.D
 Acq On : 9 Feb 2026 5:25 pm
 Operator : JP
 Sample : ICV
 Misc : SV7-035-24
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 10 07:32:05 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Qlast Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8	2000.000	2000.000	0.0	97	0.00
2 T	Naphthalene	500.000	479.245	4.2	96	0.00
3 T	2-Methylnaphthalene	500.000	540.416	-8.1	106	0.00
4 T	1-Methylnaphthalene	500.000	521.169	-4.2	104	0.00
5 I	Acenaphthene-d10	2000.000	2000.000	0.0	96	0.00
6 S	2-Fluorobiphenyl	500.000	520.540	-4.1	99	0.00
7 T	Acenaphthylene	500.000	481.260	3.7	95	0.00
8 T,M	Acenaphthene	500.000	512.116	-2.4	99	0.00
9 I	Phenanthrene-d10	2000.000	2000.000	0.0	96	0.00
10 S	Pyrene-d10	500.000	501.690	-0.3	98	0.00
11 T	Fluorene	500.000	479.306	4.1	96	0.00
12 T	Phenanthrene	500.000	477.961	4.4	96	0.00
13 T	Anthracene	500.000	469.556	6.1	92	0.00
14 T	Fluoranthene	500.000	493.739	1.3	98	0.01
15 T,M	Pyrene	500.000	473.660	5.3	96	0.00
16 I	Chrysene-d12	2000.000	2000.000	0.0	97	0.00
17 S	Terphenyl-d14	500.000	543.796	-8.8	100	0.00
18 T	Benzo[a]anthracene	500.000	482.794	3.4	94	0.00
19 T	Chrysene	500.000	457.452	8.5	91	0.00
20 I	Perylene-d12	2000.000	2000.000	0.0	97	0.00
21 T	Benzo[b]fluoranthene	500.000	471.741	5.7	93	0.00
22 T	Benzo(j,k)fluoranthene	500.000	468.503	6.3	99	0.00
23 T	Benzo[a]pyrene	500.000	470.721	5.9	93	0.00
24 T	Indeno(1,2,3-c,d)pyrene	500.000	471.809	5.6	93	0.00
25 T	Dibenz[a,h]anthracene	500.000	505.134	-1.0	101	0.00
26 T	Benzo[g,h,i]perylene	500.000	478.936	4.2	93	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

CS260209.M Tue Feb 10 07:34:11 2026

Data Path : X:\semivols\Corey\DATA\C260209\
 Data File : C0209022.D
 Acq On : 9 Feb 2026 5:25 pm
 Operator : JJP
 Sample : I CV
 Misc : SV7-035-24
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 10 07:32:05 2026
 Quant Method : C:\msdchem\1\METHODS\CS260209.M
 Quant Title : PAH'S BY SIMS
 Quant Update : Tue Feb 10 07:27:37 2026
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.343	136	200364	2000.00	ppb	0.00
5) Acenaphthene-d10	5.580	164	90727	2000.00	ppb	0.00
9) Phenanthrene-d10	6.615	188	157775	2000.00	ppb	0.00
16) Chrysene-d12	8.859	240	117678	2000.00	ppb	0.00
20) Perylene-d12	10.372	264	124090	2000.00	ppb	0.00

System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.120	172	41651	520.54	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	52.05%		
10) Pyrene-d10	7.694	212	37186	501.69	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	50.17%		
17) Terphenyl-d14	7.857	244	31983	543.80	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	54.38%		

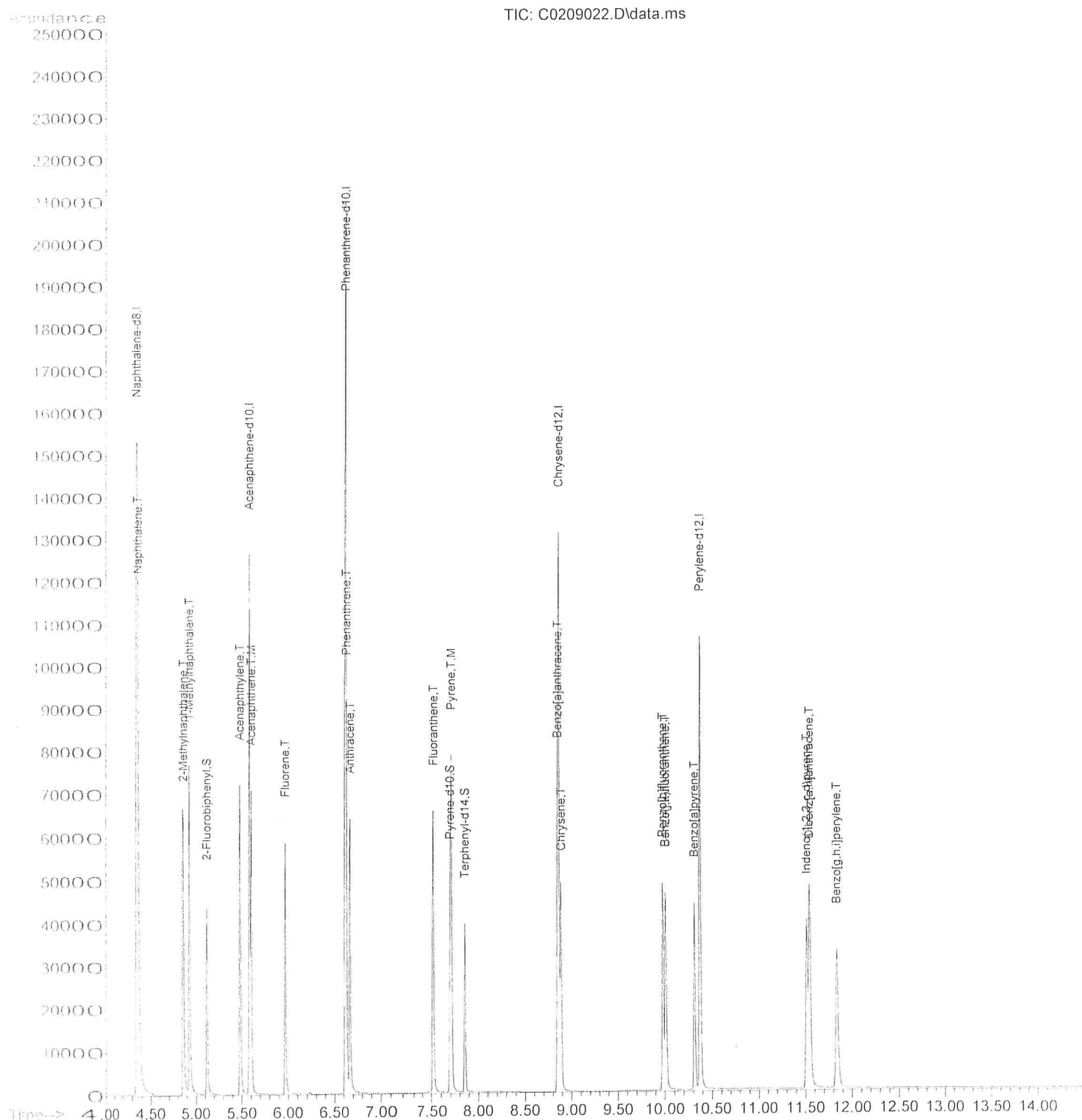
Target Compounds						Qvalue
2) Naphthalene	4.359	128	56362m	479.24	ppb	
3) 2-Methylnaphthalene	4.858	142	37376	540.42	ppb	99
4) 1-Methylnaphthalene	4.922	142	40043	521.17	ppb	93
7) Acenaphthylene	5.480	152	55151	481.26	ppb	100
8) Acenaphthene	5.603	153	35874	512.12	ppb	100
11) Fluorene	5.965	166	39277	479.31	ppb	100
12) Phenanthrene	6.627	178	49826	477.96	ppb	98
13) Anthracene	6.667	178	48796	469.56	ppb	99
14) Fluoranthene	7.521	202	53572	493.74	ppb	94
15) Pyrene	7.704	202	52683	473.66	ppb	98
18) Benzo[a]anthracene	8.847	228	42630	482.79	ppb	97
19) Chrysene	8.888	228	40671	457.45	ppb	99
21) Benzo[b]fluoranthene	9.977	252	44797	471.74	ppb	86
22) Benzo(j,k)fluoranthene	10.006	252	44446	468.50	ppb	81
23) Benzo[a]pyrene	10.314	252	40963	470.72	ppb	83
24) Indeno(1,2,3-c,d)pyrene	11.514	276	43620m	471.81	ppb	
25) Dibenz[a,h]anthracene	11.544	278	45851	505.13	ppb	76
26) Benzo[g,h,i]perylene	11.837	276	42791	478.94	ppb	69

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

✓
2/10/26

Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209022.D
Acq On : 9 Feb 2026 5:25 pm
Operator : JP
Sample : ICV
Misc : SV7-035-24
ALS Vial : 22 Sample Multiplier: 1

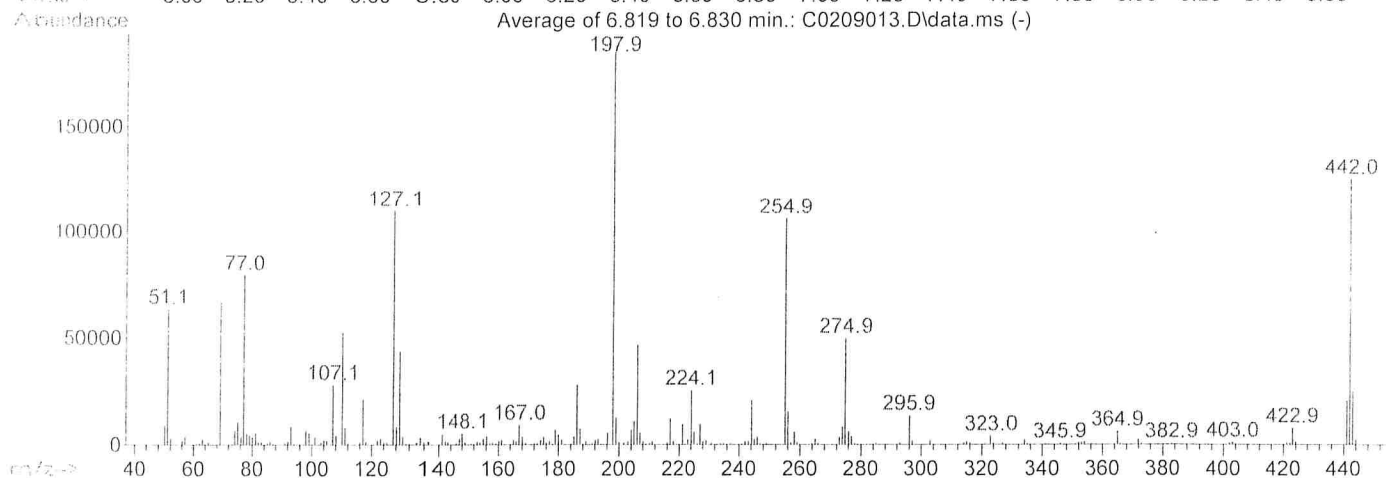
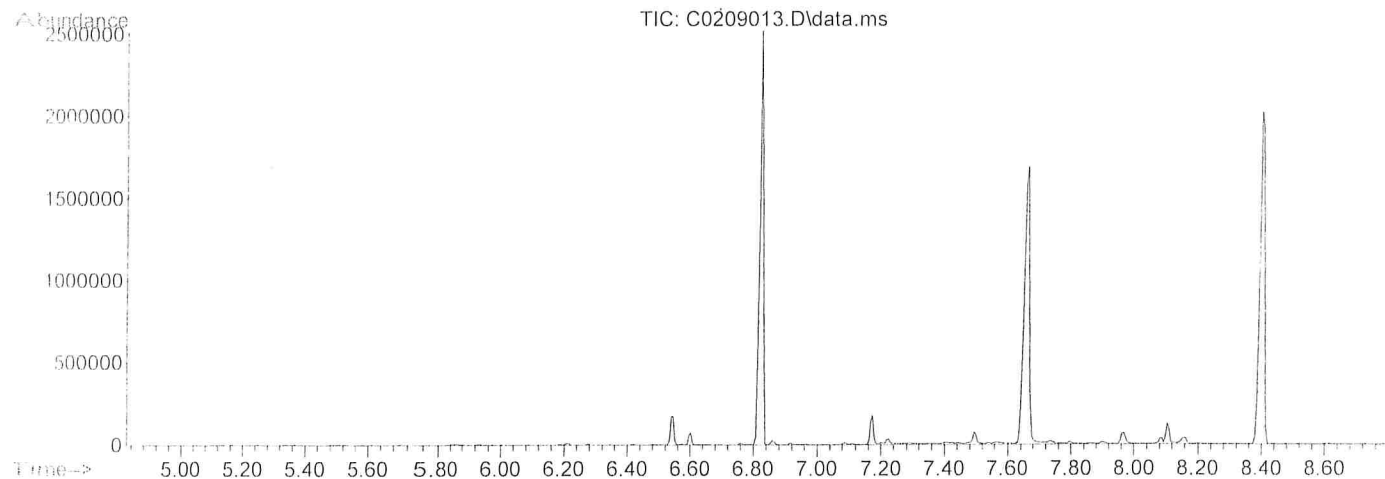
Quant Time: Feb 10 07:32:05 2026
Quant Method : C:\msdchem\1\METHODS\CS260209.M
Quant Title : PAH'S BY SIMS
Last Update : Tue Feb 10 07:27:37 2026
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C260209\
Data File : C0209013.D
Acq On : 9 Feb 2026 2:08 pm
Operator : JP
Sample : DFTPP
Misc : SV7-033-13
ALS Vial : 13 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CS260209.M
Title : PAH'S BY SIMS
Last Update : Mon Feb 09 13:41:40 2026



AutoFind: Scans 653, 654, 655; Background Corrected with Scan 648

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.1	66711	PASS
70	69	0.00	2	0.3	183	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	184978	PASS
199	198	5	9	7.0	13013	PASS
365	198	1	100	3.4	6271	PASS
441	443	0.00	150	82.4	20580	see #1
442	198	0.00	200	67.5	124856	PASS
443	442	15	24	20.0	24975	PASS

#1) % Low Criteria for Mass 441 is currently set to 0.
The recommended Low % Criteria for DFTPP m/z 441 is 0.01.
Select Tuner/Edit DFTPP Criteria to change % Low Criteria.

GC/MS QA-QC Check Report

Run File : X:\semivols\Corey\DATA\C260209\C0209022.D

Run Time : 9 Feb 2026 5:25 pm

Daily Calibration File : X:\semivols\Corey\DATA\C260209\C0209022.D

(PRY)

(NPT)

(ACE)

(PHN)

200364

90727

157775

(CRY)

(PRY)

117678

124090

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
C0209014.D	10 PPB ICA	1*	1* -5*	200398	92466	147508
			96273 101232			
C0209016.D	50 PPB ICA	5*	6* 3*	194828	90796	156617
			115057 120572			
C0209017.D	100 PPB IC	11*	11* 11*	199823	92321	159686
			114574 120591			
C0209018.D	200 PPB IC	21*	21* 26*	215382	98077	170657
			107966 131666			
C0209019.D	500 PPB IC	51	49 53	207237	94342	165152
			121449 128151			
C0209020.D	1000 PPB I	93*	93 106*	217008	98665	171489
			126042 134927			
C0209021.D	5000 PPB I	414*	444* 487*	205586	96332	153963
			122745 112931			

fails) - fails 12hr time check * - fails criteria

Created: Fri Feb 13 13:02:37 2026 Corey

GC/MS QA-QC Check Report

Data File : X:\semivols\Corey\DATA\C260209\C0209022.D

Print Time : 9 Feb 2026 5:25 pm

Daily Calibration File : X:\semivols\Corey\DATA\C260209\C0209022.D

(PRY)

(NPT)

(ACE)

(PHN)

200364

90727

157775

(CRY)

(PRY)

117678

124090

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
C0209023.D	SB0209W2	82	92 107*	208602	94485	154394
			118842	126361		
C0209024.D	SB0209W2 D	75	95 97*	215787	97677	166742
			122223	129405		
C0209025.D	MB0209W2	69	90 100*	212432	97431	163986
			123092	128597		
C0209030.D	02-071-01	70	86 97*	208666	94809	163395
			115414	120813		
C0209031.D	02-071-03	73	87 95*	209657	94857	164333
			120455	126624		
C0209037.D	02-071-02	73	86 106*	210096	95601	166427
			118732	125046		

Fails) - fails 12hr time check * - fails criteria

Created: Fri Feb 13 13:04:14 2026 Corey

Sequence Name : C:\msdchem\1\sequence\C260209.S

Comment :

Operator : JP

Data Path : C:\MSDCHEM\1\DATA\C260209\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
(X) Full Method (X) Inject Anyway
() Reprocessing Only () Don't Inject

```
-----
Line      Sample Name/Misc Info
1) Sample      1 C0209001 CSIMSCAN DFTPP
2) Sample      2 C0209002 CS260209 m
3) Sample      3 C0209003 CS260209 m
4) Sample      4 C0209004 CS260209 10 PPB ICAL
5) Sample      5 C0209005 CS260209 20 PPB ICAL
6) Sample      6 C0209006 CS260209 50 PPB ICAL
7) Sample      7 C0209007 CS260209 20 PPB ICAL
8) Sample      8 C0209008 CS260209 100 PPB ICAL
9) Sample      9 C0209009 CS260209 200 PPB ICAL
10) Sample     10 C0209010 CS260209 500 PPB ICAL
11) Sample     11 C0209011 CS260209 1000 PPB ICAL
12) Sample     12 C0209012 CS260209 5000 PPB ICAL
13) Sample     13 C0209013 CSIMSCAN DFTPP
14) Sample     14 C0209014 CS260209 10 PPB ICAL
15) Sample     15 C0209015 CS260209 20 PPB ICAL
16) Sample     16 C0209016 CS260209 50 PPB ICAL
17) Sample     17 C0209017 CS260209 100 PPB ICAL
18) Sample     18 C0209018 CS260209 200 PPB ICAL
19) Sample     19 C0209019 CS260209 500 PPB ICAL
20) Sample     20 C0209020 CS260209 1000 PPB ICAL
21) Sample     21 C0209021 CS260209 5000 PPB ICAL
22) Sample     22 C0209022 CS260209 ICV
23) Sample     23 C0209023 CS260209 SB0209W2
24) Sample     24 C0209024 CS260209 SB0209W2 DUP
25) Sample     25 C0209025 CS260209 MB0209W2
26) Sample     26 C0209026 CS260209 MB0209W1
27) Sample     27 C0209027 CS260209 02-029-04
28) Sample     28 C0209028 CS260209 02-029-08
29) Sample     29 C0209029 CS260209 02-088-01
30) Sample     30 C0209030 CS260209 02-071-01
31) Sample     31 C0209031 CS260209 02-071-03
32) Sample     32 C0209032 CS260209 02-088-02
33) Sample     33 C0209033 CS260209 02-088-03
34) Sample     34 C0209034 CS260209 02-079-06
35) Sample     35 C0209035 CS260209 02-079-07
36) Sample     36 C0209036 CS260209 02-079-11
37) Sample     37 C0209037 CS260209 02-071-02
38) Sample     38 C0209038 CS260209 SB0209S1
39) Sample     39 C0209039 CS260209 SB0209S1 DUP
40) Sample     40 C0209040 CS260209 MB0209S1
41) Sample     41 C0209041 CS260209 02-098-01
42) Sample     42 C0209042 CS260209 02-098-02
43) Sample     43 C0209043 CS260209 02-098-02 MS
```

Sequence Name: C:\msdchem\1\sequence\C260209.S

Line	Type	Vial	DataFile	Method	Sample Name
------	------	------	----------	--------	-------------

44)	Sample	44	C0209044	CS260209 02-098-02	MSD
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EPA 8270 EXTRACTION LOGBOOK

Date Extracted: 02/09/26 Time Ext. am/pm

Analysis: PAH

Matrix: H₂O

Surrogate Std. ID: SVF-032-13
Spike Std. ID: SVF-030-06

[illegible]

1071
1041
1061

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Int	Date
8270 CH MIX	SV619401	RESTEK 31995 Lot# A0213040 Expire: 06/2030 8270 Calibration Mx #5, Revised 2000 µg/mL each in Methylene Chloride Sonication required. Mx is photosensitive. Full label information for the chemical is provided on the outside package.	110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com	Danger ⚠️ ⚠️ ⚠️ Receipt Date: _____ Opened Date: _____ Made in USA	1 mL			JP	2/24/25
DATE Stock	SV619402	SV619401	2000ppm	1mL	20mL	100ppm	Meth		
DATE Spike	SV619403	SV619402	100ppm	2.5mL	50mL	5ppm	Acetone		
DATE CV	SV619404	SV617510	10ppm	10µL	20µL	500ppb	Meth	JP	2/24/25
BNA Ccu	SV619405	SV619116 82316	200ppm	20/20	20µL	20ppm	Meth	JP	2/25/25
8270 CH MIX	SV619405	RESTEK 31995 Lot# A0207797 Expire: 01/2030 8270 Calibration Mx #5, Revised 2000 µg/mL each in Methylene Chloride Sonication required. Mx is photosensitive. Full label information for the chemical is provided on the outside package.	110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com	Danger ⚠️ ⚠️ ⚠️ Receipt Date: _____ Opened Date: _____ Made in USA	1 mL			JP	
Revised BIN MIX	OB	RESTEK 31887 Lot# A0212665 Expire: 06/2030 Revised BIN Sunlight Mx 1000 µg/mL each in Methylene Chloride Sonication required. Mx is photosensitive. Full label information for the chemical is provided on the outside package.	110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com	Warning ⚠️ Receipt Date: _____ Opened Date: _____ Made in USA	1 mL				
PAH Working	SV619407	SV619405	2000ppm	50 µL	10mL	10ppm	Meth	JP	2/25/25
Stock	↓	↓ OB	1000ppm	100 µL	↓	↓	↓	↓	↓
PAH 5000	SV619408	SV619407	10ppm	500 µL	1mL	500ppb			
7000	09			100		1000			
500	10			50		500			
200	11			26		200			
100	12			10		100			
50	13	SV619409	1ppm	50		50			
20	14	↓	↓	20		20			
10	15	↓	↓	10		10			
CV	16	SV618520	10ppm	10	20µL	500			
PAH CV	SV619417	SV619407	10ppm	10µL	20µL	500ppb	Meth	JP	2/25/25
PAH CV	SV619418	SV619407	10ppm	10µL	20µL	500ppb	Meth	JP	2/26/25
BNA Ccu	SV619419	SV619116 82316	200ppm	20/20	20µL	20ppm	Meth	JP	2/26/25
8270 Mixture	SV619420	RESTEK 31850 Lot# A0219439 Expire: 09/2025 8270 MegaMix® 500-1,000 µg/mL each in Methylene Chloride Sonication required. Mx is photosensitive. Full label information for the chemical is provided on the outside package.	110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com	Warning Danger ⚠️ ⚠️ ⚠️ Receipt Date: _____ Opened Date: _____ Made in USA	1 mL			JP	2/27/25

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Work continued to Page

SIGNATURE

DATE

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DATE

WITNESS

DATE

Work continued from Page

UP	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final vol	Final Conc	Solvent	Init	Date
12/15/25	8270 Sur	SV702401	SV707325	4000ppm	2mL	100mL	80ppm	Acetone	JP	11/13/25
5	PAH CCV	SV702402	SV700325	10ppm	1mL	200mL	500ppb	MeCl ₂		11/14/25
	BNA CCV	L 03	SV70818119	200ppm	20/20mL	+	20ppm	+		11/15/25
	PAH Mx	SV702400								
LRAD7632 2027-03-31 Every date (YYYY-MM-DD) CRM47543 Polynuclear Aromatic Hydrocarbons Mix certified reference material, 2000 µg/mL each component in benzene, dichloromethane (50:50), ampule of 1 mL (Contains: Methylene chloride, Benzene, 3,4-Benzpyrene) Restricted to professional users. Contains 3,4-Benzpyrene. May produce an allergic reaction. For R&D use only. Not for drug, household, or other uses. May produce an allergic reaction. Store at +2°C to +8°C. SDS available. Made in USA sigmaldrich.com EN Danger May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting.										
15	8270 Cal	05								
	Mx #5									
	BNA Sur	06								
20	BNA Mx									
	BNA Sur	07								
	Mx									
25	ISTD	08								
	Mx									
RESTEK 31995 Lot# AO220367 Expire: 11/2030 Store: 10°C or colder 8270 Calibration Mix #5, Revised 2000 µg/mL each in Methylene Chloride Sonication required. Mix is photosensitive. Full label information for the chemical is provided on the outside package. 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com Danger Receipt Date: _____ Opened Date: _____ Made in USA 1 mL										
RESTEK 31887 Lot# AO224500 Expire: 03/2031 Store: 10°C or colder Revised BNA Surrogate Mix 1000 µg/mL each in Methylene chloride Sonication required. Mix is photosensitive. Full label information for the chemical is provided on the outside package. 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com Warning Receipt Date: _____ Opened Date: _____ Made in USA 1 mL										
RESTEK 31887 Lot# AO213779 Expire: 05/2030 Store: 10°C or colder Revised BNA Surrogate Mix 1000 µg/mL each in Methylene chloride Sonication required. Mix is photosensitive. Full label information for the chemical is provided on the outside package. 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com Warning Receipt Date: _____ Opened Date: _____ Made in USA 1 mL										
AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com Z-014J Internal Standard Mix 4.0 mg/mL in CH₂Cl₂ Lot: 225011145 Exp: Jan 17, 2035 Storage: Ambient (>5 °C)/Sonicate 6 comp(s) PRODUCT OF THE USA FOR LABORATORY USE ONLY H315 H335 H332 H302 H351 P338 P360 P331 P233 P262 P202 P264 Refer to SDS Signal Word: Warning										
30	PAH ICAL	09	SV702405	4000 ppm	50 µL	10mL	10ppm	MeCl ₂		
	PAH CCV ICAL	10	06	1000	100					
			04	2000	50					
			07	1000	100					
	PAH ISTD	11	08	4000	500	50mL	40ppm			

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA CCV	SV703001	SV7028516	200ppm	20/20µL	200µL	20ppm	Mech2	JP	12/16/25
PAH CCV	1 02	SV702409	10ppm	10µL	1	500ppb	1	JP	1
PAH CCV	SV703003	SV702409	10ppm	10µL	200µL	500ppb	Mech2	JP	12/18/25
PAH CCV	SV703004	1	1	1	1	1	Mech2	JP	12/19/25
BNA CCV	1 05	SV7028516	200ppm	20/20µL	200µL	20ppm	1	JP	1
PAH Spike	SV703006	SV702409	10ppm	2.5mL	50mL	50ppm	Acetone	JP	1
PAH CCV	SV703007	SV702409	10ppm	10µL	200µL	500ppb	Mech2	JP	12/22/25
BNA CCV	1 08	SV7028516	200	20/20	1	20ppm	1	JP	1
PAH CCV	SV703009	SV702409	10	10	200µL	500ppb	1	JP	12/23/25
BNA CCV	SV703010	SV7028516	200	20/20	1	20ppm	1	JP	1
PAH CCV	SV703011	SV702409	10	10	500ppb	1	1	JP	12/24/25
PAH CCV	SV703012	1	10	10	1	1	1	JP	12/29/25
BNA CCV	SV703013	SV7028516	200ppm	20/20µL	200µL	20ppm	1	JP	12/29/25
BNA CCV	1 14	SV7028314	1	1	1	1	1	JP	12/30/25
PAH CCV	1 15	SV702409	10ppm	10µL	500ppb	1	1	JP	1
PAH CCV	SV703016	1	1	1	1	1	1	JP	12/31/25
BNA CCV	1 17	SV7028314	200ppm	20/20µL	200µL	20ppm	1	JP	1
BNA CCV	SV703018	SV7028516	1	1	1	1	1	JP	12/26
PAH CCV	1 19	SV702409	10ppm	10µL	500ppb	1	1	JP	1

8270 Megamix

20

RESTEK
31850
Lot# A0229652
Expire: 07/2026
8270 MegaMix®
500-1,000 µg/mL each in Methylene Chloride
Sonication required. Mix is photosensitive.
Full label information for the chemical is provided on the outside package.

110 Benner Circle, Bellefonte, PA 16823
814-353-1300
www.restek.com

Danger
Receipt Date: _____
Opened Date: _____
Made in USA
1 mL
Laboratory Use Only. Not for human or animal use.

Custom
SVOC Stock

21

AccuStandard® 125 Market St, New Haven, CT 06513
www.AccuStandard.com

S-15651
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 224021329-02
Exp: Nov 22, 2026
5 comp(s)
Storage: Freeze (<-10 °C)
PRODUCT OF THE USA
FOR LABORATORY USE ONLY

H315 H335
H332 H302
H350 P338
P360 P331
P233 P262
P202 P264
Refer to SDS



Signal Word: Warning



JP 2/16/26

8270 Spike #1
#2

22

SV703020

100ppm

1mL

5mL

20ppm

Acetone

JP

1

23

1 21

1

1

1

1

1

JP

1

BNA CCV

SV703024

SV7028516

200ppm

20/20 µL

200µL

20ppm

MeCl2

JP

1/5/26

PAH CCV

1 25

SV702409

10ppm

10

1

500ppb

1

JP

1/6/26

PAH CCV

SV703026

1

1

1

200µL

1

1

JP

1

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Work continued to Page

SIGNATURE

DATE

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DATE

WITNESS

DATE

Work continued from Page	Stock	Stock	Stock	Final	Final	Solvent	Init	Date
Analyte	Lab ID	ID	Conc	Vol	Vol	Conc		
PAH CCV	SV703201	SV702409	10ppm	10µL	200µL	500ppb	MeCl ₂	JP
8270 MegaMix	02							11/5/26
Custom Stock	03							2/8/28
8270 Spike #1	04	SV703202	1000ppm	1mL	5mL	200ppm	Acetone	
#2	05	L 03		1mL				
PAH CCV	06	SV702409	10ppm	10µL	200µL	500ppb	MeCl ₂	1/6/26
BNA CCV	07	SV7028516	200ppm	20µL		20ppm		
PAH CCV	08	SV702410	10ppm	10µL	200µL	500ppb	MeCl ₂	1/19/26
BNA CCV	09	SV7028516	200ppm	20/20µL		20ppm		1/19/26
BNA CCV	10							2/20/28
PAH CCV	11	SV702409	10ppm	10µL		500ppb		
Retene	12							
PAH Surrogate	13	SV703212	100ppm	1mL	100µL	10ppm	Acetone	
PAH Surrogate	14	SV702409	10ppm	10 µL	200µL	500ppb	MeCl ₂	1/21/26
BNA Surrogate	15	SV7028516	200ppm	20/20µL		20ppm		1/21/26
Retene		SV703216						
Retene 200		SV703217	SV703216	1000ppm	200µL	1mL	200ppm	MeCl ₂

RESTEK

31850

Lot# A0229552

Expire: 07/2026

8270 MegaMix®

500-1,000 µg/mL each in Methylene Chloride

Sonication required. Mix is photosensitive.

Full label information for the chemical is provided on the outside package.

110 Benner Circle Bellefonte, PA 16823

814-353-1300

www.restek.com

Store: 0°C or colder

Receipt Date:

Opened Date:

Made in USA

Laboratory Use Only. Not for human or animal use.

Danger

1 mL

Signal Word: Warning

H315 H335

H332 H302

H350 P338

P360 P331

P202 P262

P202 P264

Refer to SDS

Signal Word: Warning

H315 H335

H332 H302

H350 P338

P360 P331

P202 P262

P202 P264

Refer to SDS



AccuStandard®

125 Market St, New Haven, CT 06513

www.AccuStandard.com

S-15651

Custom SVOC and VOC Standard

1000 µg/mL in Methylene chloride

Lot: 224021329-02

Exp: Nov 22, 2026

5 comp(s)

Storage: Freeze (-10 °C)

PRODUCT OF THE USA

FOR LABORATORY USE ONLY

RESTEK

31887

Lot# A0224500

Expire: 03/2031

Revised BIN Surrogate Mix

1000 µg/mL each in Methylene chloride

Sonication required. Mix is photosensitive.

Full label information for the chemical is provided on the outside package.

110 Benner Circle Bellefonte, PA 16823

814-353-1300

www.restek.com

Store: 10°C or colder

Receipt Date:

Opened Date:

Made in USA

Laboratory Use Only

Warning

1 mL

Signal Word: Warning

H315 H335

H332 H302

H350 P338

P360 P331

P202 P262

P202 P264

Refer to SDS

spex

certiprep

S-4436

Retene - 1.2 mL

LOT: NSI240514704

SOLV: Methylene Chloride

EXP: 05/30/2027

STORE: -10°C to -20°C

FOR LABORATORY USE ONLY



Work continued from Page

Stock

Stock

Stock

Final

Final

Solvent

Init

Date

Analyte

Lab ID

ID

Conc

Vol

Vol

Conc

Refine 60.

SV70301

SV70327

200ppm

60 mL

200µL

60 ppm

MeCl₂

JP

1/21/26

50

02

↓

↓

50

↓

50

↓

↓

↓

35

03

↓

↓

35

↓

35

↓

↓

↓

20

04

↓

↓

40

400µL

20

↓

↓

↓

10

05

↓

↓

10

200µL

10

↓

↓

↓

5

06

SV703304

20ppm

50

↓

5

↓

↓

↓

2

07

↓

↓

20

↓

2

↓

↓

↓

1

08

↓

↓

10

↓

1

↓

↓

↓

0.5

09

SV703304

↓

5

↓

0.5

↓

↓

↓

10

10

SV702616

20ppm

20

↓

20

↓

↓

↓

PAH CCV

SV703311

SV702409

10ppm

10 µL

200µL

500ppb

MeCl₂

JP

1/22/26

BNA CCV

↓

SV7028314

200ppm

20/20 µL

↓

20ppm

↓

↓

↓

DFTPP

SV703313

↓

↓

↓

↓

↓

↓

JP

1/22/26

LRAD9051
2027-06-30
Expiry date (YYYY-MM-DD)47387
EPA 8270 GC-MS Tuning
Solution
certified reference material,
50 µg/mL each component in dichloro-
methane

(Contains: Methylene chloride)

Store under inert gas. For R&D use only. Not for drug, household, or other uses.
Store at +2°C to +8°C. SDS available.

Made in USA

sigmaaldrich.com

SIGMA-ALDRICH, Co., 3050 Spruce Street, St. Louis, MO 63103 USA +1-314-771-9700
Sigma-Aldrich Chemie GmbH, Kuppferberg 1, 91025 Schwanau, Germany +49 7930 9000EN Warning Suspected of causing cancer.
Harmful to aquatic life with long lasting
effects. Do not handle until all safety
precautions have been read and
understood. IF exposed or concerned: Get
medical advice/attention.

PAH CCV

SV703314

SV702409

10 ppm

10 µL

200 µL

500 ppb

MeCl₂

PB

1/23/26

BNA CCV

↓

SV7028516

200 ppm

20/20 µL

↓

20 ppm

↓

↓

↓

25 PAH CCV

SV703316

SV702409

10 ppm

10 µL

200 µL

500 ppb

MeCl₂

PB

1/26/26

BNA CCV

↓

SV7028516

200 ppm

20/20 µL

↓

20 ppm

↓

↓

↓

BNA CCV

↓

↓

↓

↓

↓

↓

↓

↓

↓

BNA CCV

SV703319

SV7028314

200ppm

20/20µL

200µL

20ppm

MeCl₂

JP

1/27/26

PAH CCV

↓

SV702409

10ppm

10µL

↓

500ppb

↓

↓

↓

30 PAH CCV

SV703321

↓

↓

↓

200µL

↓

↓

↓

↓

BNA CCV

↓

SV7028516

200ppm

10/20µL

↓

20ppm

↓

↓

↓

BNA CCV

SV703323

↓

↓

↓

↓

↓

↓

↓

↓

PAH CCV

↓

SV702409

10ppm

10µL

↓

500ppb

↓

↓

↓

35 PAH CCV

SV703325

↓

↓

↓

↓

↓

↓

JP

1/30/26

BNA CCV

↓

SV7028314

200ppm

20/20µL

↓

20ppm

↓

↓

↓

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Work continued from Page

Stock

Stock

Stock

Final

Final

Solvent

Init

Date

Analyte

Lab ID

ID

Conc

Vol

Vol

Conc

8270 Swr

SV703501

SV703413

4000ppm

2mL

100mL

80ppm

Acetone

JD

2/2/26

82705 pte #1

02

SV7034115

1000ppm

1mL

5mL

200ppm

#2

03

14

PAH CCV

SV703504

SV702409

10ppm

10mL

200mL

500ppb

MeCl₂

BNA CCV

05

SV7028516

200ppm

20/20mL

200mL

20ppm

BNA CCV

06

1

JD

2/3/26

PAH CCV

07

SV702409

10ppm

10mL

200mL

500ppb

PAH CCV

SV703508

SV702410

1

PAH CCV

SV703509

SV702409

10ppm

200mL

500ppb

JD

2/4/26

BNA CCV

10

SV7028516

200ppm

20/20mL

1

20ppm

BNA CCV

11

1

1

1

200mL

1

JD

2/5/26

PAH CCV

12

SV702409

10ppm

10mL

1

500ppb

PAH CCV

SV703513

1

1

1

200mL

1

JD

2/6/26

BNA CCV

14

SV7028314

200ppm

20/20mL

1

20ppm

PAH 5000

15

SV702409

10ppm

500mL

1mL

5000ppb

JD

2/6/26

1000

16

100

1000

500

17

50

500

200

18

20

200

100

19

10

100

50

20

SV703516

1000ppb

50

50

20

21

1

1

20

20

10

22

1

1

10

10

1mL

23

SV702410

10ppm

10mL

200mL

500

PAH 1mL

24

1

1

10mL

1

500ppb

MeCl₂

JD

2/6/26

BNA CCV

SV703525

SV7028516

200ppm

20/20mL

200mL

20ppm

MeCl₂

BNA CCV

26

1

1

1

1

2/10/26

PAH 1mL

27

SV702410

10ppm

10mL

500ppb

PAH CCV

28

SV702409

1

1

1

BNA CCV

29

SV7028516

200ppm

20/20

20ppm

2/11/26

BNA 60

30

SV7028514

60/60

60

2/11/26

50

31

50/50

50

35

32

35/35

35

20

33

40/40

400mL

20

Total Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

2-16-26
KPM

User Name: kmckinney

Computer Name: DESKTOP-RIRVUDN

Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\

Report Date/Time: Monday, February 16, 2026 10:51:00

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [STD/KED] Nebulizer		07:54:16 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
SmartTune - CQID		07:55:55 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
SmartTune - CQID		07:58:03 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
SmartTune - CQID		08:00:14 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
SmartTune - Mass Calibration and		08:02:31 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
SmartTune - [STD] Performance Check		08:03:12 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Blank	09:03:32 Mon	16-FBlank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 1	09:05:43 Mon	16-FStandard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 2	09:07:54 Mon	16-FStandard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 3	09:10:05 Mon	16-FStandard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 4	09:12:16 Mon	16-FStandard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 5	09:14:27 Mon	16-FStandard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 6	09:16:39 Mon	16-FStandard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	Standard 7	09:18:49 Mon	16-FStandard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 1	09:21:50 Mon	16-FQC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 2	09:24:51 Mon	16-FQC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 6	09:27:02 Mon	16-FQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 7	09:30:02 Mon	16-FQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 8	09:33:02 Mon	16-FQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	MB0216D1 2X	09:35:13 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	SB0216D1 2X	09:38:14 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-01a 10X	09:41:13 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02a 10X	09:44:13 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-03a 10X	09:47:11 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02a D 10X	09:50:40 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02a L 50X	09:53:39 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02a MS 10X	09:56:39 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02a MSD 10X	09:59:40 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 6	10:02:40 Mon	16-FQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 7	10:05:41 Mon	16-FQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 8	10:08:42 Mon	16-FQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	MB0216WM1 2X	10:11:09 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	SB0216WM1 2X <i>2-16-26 KPM</i>	10:14:09 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02b 5X	10:18:33 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02b D 5X	10:21:32 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02b L 25X	10:24:32 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02b MS 5X	10:27:31 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02b MSD 5X	10:30:30 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-02b PS 5X	10:33:29 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-01b 10X	10:36:29 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	02-071-03b 10X	10:39:29 Mon	16-FSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 6	10:42:29 Mon	16-FQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 7	10:45:30 Mon	16-FQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	
	QC Std 8	10:48:31 Mon	16-FQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\	

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\wizard\SmartTune\SmartTune Daily.swz

Optimization Status

Start Time: 2/16/2026 8:02:31 AM

Mass Calibration and Resolution

Optimization Settings:

Method: Optimizations\Tuning.mth.

MassCal File: Default.tun

Iterations: 6

Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.708)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.703)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)

Target/Obtained mass (207.977/208.025), Target/Obtained resolution (0.7/0.686)

Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.682)

[Passed] Optimum value(s): N/A

End Time: 2/16/2026 8:03:00 AM

Performance Check Report

Sample ID: [STD] Performance Check

Sample Date/Time: Monday, February 16, 2026 08:03:12

Sample Description:

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Optimizations\STD Performance Check.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\STD] Performance Check.020

MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD	Mode
	Li	7.0		77392.3		77392.336		137.021		0.2	Standard
	In	114.9		398866.2		398866.185		826.451		0.2	Standard
	U	238.1		276793.5		276793.525		519.757		0.2	Standard
Ce	CeO	155.9		12209.5		0.022		0.000		0.6	Standard
Ce	Ce++	70.0		3067.8		0.006		0.000		1.6	Standard
	Bkgd	220.5		0.1		0.067		0.091		136.9	Standard
	Ce	139.9		548418.1		548418.054		907.539		0.2	Standard

Current Conditions File Data

Current Value Description

-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.98	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1881.00	Standard - Analog Stage
1650.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-13.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Ammonia DRC - Hyperskimmer Park Voltage
0.98	Ammonia DRC - DRC Mode NEB
5.00	Helium KED - OmniRing Park Voltage
2.00	Helium KED - Hyperskimmer Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Optimization Status

Start Time: 2/16/2026 8:03:12 AM

[STD] Performance Check

Optimization Settings:

Method: \Optimizations\STD Performance Check.mth.
Intensity Criterion: Li 7 > 55000
Intensity Criterion: In 115 > 300000
Intensity Criterion: U 238 > 225000
Intensity Criterion: Bkgd 220.5 <= 5
Formula Criterion: Ce++ 70 ÷ Ce 140 <= 0.03
Formula Criterion: CeO 156 ÷ Ce 140 <= 0.025
RSD Criterion: Li 7.016 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Li 7): 77392.34
Obtained Intensity (In 115): 398866.18
Obtained Intensity (U 238): 276793.52
Obtained Intensity (Bkgd 220.5): 0.07
Obtained Formula (Ce++ 70 ÷ Ce 140): 0.006 (=3067.80 ÷ 548418.05)
Obtained Formula (CeO 156 ÷ Ce 140): 0.022 (=12209.55 ÷ 548418.05)
Obtained RSD (Li 7): 0.0018
Obtained RSD (In 115): 0.0021
Obtained RSD (U 238): 0.0019

[Passed] Optimum value(s): N/A

End Time: 2/16/2026 8:05:17 AM

Quantitative Analysis Calibration Report

File Name:

File Path:

Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni -3	57.935	Weighted Linear	0.09	0.01	0.998793
Ni -4	59.933	Weighted Linear	0.04	0.01	0.998938
Ni -5	61.928	Weighted Linear	0.01	0.00	0.998761
As-2	74.922	Weighted Linear	0.01	0.00	0.999019
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, February 16, 2026 09:03:32

Report Date/Time: Monday, February 16, 2026 09:04:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Blank.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	657.0	2.6				ug/L		KED
	Ni -4	60	284.3	4.1				ug/L		KED
	Ni -5	62	50.7	19.0				ug/L		KED
	As-2	75	7.3	47.9				ug/L		KED
	Y-1	89	69191.8	0.8				ug/L		KED
	Rh-1	103	87248.6	0.6				ug/L		KED
>	Ge-1	72	61856.6	0.6				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, February 16, 2026 09:05:43

Report Date/Time: Monday, February 16, 2026 09:06:23

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 1.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	2038.4	3.2				ug/L	657	KED
	Ni -4	60	879.7	2.9				ug/L	284	KED
	Ni -5	62	142.7	1.5				ug/L	51	KED
	As-2	75	113.3	8.2				ug/L	7	KED
	Y-1	89	76116.9	0.8				ug/L	69192	KED
	Rh-1	103	95929.0	0.4				ug/L	87249	KED
>	Ge-1	72	67343.4	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, February 16, 2026 09:07:54

Report Date/Time: Monday, February 16, 2026 09:08:34

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 2.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	4922.9	1.7				ug/L	657	KED
	Ni -4	60	2203.2	1.8				ug/L	284	KED
	Ni -5	62	320.3	1.8				ug/L	51	KED
	As-2	75	241.7	5.9	0.5000	0.035	6.9	ug/L	7	KED
	Y-1	89	81319.5	1.3				ug/L	69192	KED
	Rh-1	103	101222.4	0.9				ug/L	87249	KED
>	Ge-1	72	71497.5	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, February 16, 2026 09:10:05

Report Date/Time: Monday, February 16, 2026 09:10:45

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 3.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	12142.9	0.9	2.0000	0.010	0.5	ug/L	657	KED
	Ni -4	60	5415.4	0.7	2.0000	0.005	0.3	ug/L	284	KED
	Ni -5	62	801.7	1.8	2.0000	0.031	1.5	ug/L	51	KED
	As-2	75	886.7	0.8	2.0895	0.008	0.4	ug/L	7	KED
	Y-1	89	71652.9	0.9				ug/L	69192	KED
	Rh-1	103	88946.4	0.6				ug/L	87249	KED
>	Ge-1	72	63827.9	0.5				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, February 16, 2026 09:12:16

Report Date/Time: Monday, February 16, 2026 09:12:56

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 4.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	30515.0	0.6	5.1920	0.046	0.9	ug/L	657	KED
	Ni -4	60	13420.0	0.5	5.1654	0.018	0.3	ug/L	284	KED
	Ni -5	62	2049.8	1.6	5.2177	0.121	2.3	ug/L	51	KED
	As-2	75	2167.8	1.8	5.0781	0.057	1.1	ug/L	7	KED
	Y-1	89	71839.2	0.8				ug/L	69192	KED
	Rh-1	103	88862.2	0.6				ug/L	87249	KED
>	Ge-1	72	64355.0	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Monday, February 16, 2026 09:14:27

Report Date/Time: Monday, February 16, 2026 09:15:07

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 5.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	116390.7	0.5	21.1174	0.079	0.4	ug/L	657	KED
	Ni -4	60	51376.9	0.3	21.1249	0.079	0.4	ug/L	284	KED
	Ni -5	62	7811.8	2.7	21.1199	0.467	2.2	ug/L	51	KED
	As-2	75	8408.8	1.0	20.7622	0.183	0.9	ug/L	7	KED
	Y-1	89	67017.8	0.7				ug/L	69192	KED
	Rh-1	103	83414.2	1.0				ug/L	87249	KED
>	Ge-1	72	60368.6	0.6				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, February 16, 2026 09:16:39

Report Date/Time: Monday, February 16, 2026 09:17:18

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 6.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	231694.6	0.6	41.3577	0.093	0.2	ug/L	657	KED
	Ni -4	60	101480.5	1.0	41.1523	0.156	0.4	ug/L	284	KED
	Ni -5	62	15345.6	0.7	40.9686	0.207	0.5	ug/L	51	KED
	As-2	75	16706.1	0.8	40.7355	0.213	0.5	ug/L	7	KED
	Y-1	89	67129.0	1.0				ug/L	69192	KED
	Rh-1	103	82758.0	0.4				ug/L	87249	KED
>	Ge-1	72	60819.2	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, February 16, 2026 09:18:49

Report Date/Time: Monday, February 16, 2026 09:19:29

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 7.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	573321.5	0.5	100.6615	0.781	0.8	ug/L	657	KED
	Ni -4	60	250439.9	0.8	100.0906	0.583	0.6	ug/L	284	KED
	Ni -5	62	37780.6	0.8	99.5288	0.597	0.6	ug/L	51	KED
	As-2	75	41189.0	0.2	98.9714	1.105	1.1	ug/L	7	KED
	Y-1	89	68986.5	0.7				ug/L	69192	KED
	Rh-1	103	85095.7	0.7				ug/L	87249	KED
>	Ge-1	72	61921.9	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, February 16, 2026 09:21:50

Report Date/Time: Monday, February 16, 2026 09:22:30

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 1.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	297499.3	0.3	49.8180	0.113	0.2	ug/L	657	KED
	Ni -4	60	130662.5	0.6	49.7991	0.222	0.4	ug/L	284	KED
	Ni -5	62	19673.2	0.8	49.4391	0.340	0.7	ug/L	51	KED
	As-2	75	21088.2	0.8	48.4214	0.287	0.6	ug/L	7	KED
	Y-1	89	72129.0	0.1				ug/L	69192	KED
	Rh-1	103	87671.9	0.6				ug/L	87249	KED
>	Ge-1	72	64763.8	0.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	99.636	
	Ni -4	60	99.598	
	Ni -5	62	98.878	
	As-2	75	96.843	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		104.700

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, February 16, 2026 09:24:51

Report Date/Time: Monday, February 16, 2026 09:25:30

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 2.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	767.9	2.3	-0.1049	0.003	2.8	ug/L	657	KED
	Ni -4	60	322.3	4.6	-0.1261	0.006	4.5	ug/L	284	KED
	Ni -5	62	48.7	10.1	-0.0941	0.013	13.7	ug/L	51	KED
	As-2	75	10.7	27.1	-0.0187	0.007	36.8	ug/L	7	KED
	Y-1	89	67848.1	1.1				ug/L	69192	KED
	Rh-1	103	83667.0	1.9				ug/L	87249	KED
>	Ge-1	72	61995.6	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		100.225

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 16, 2026 09:27:02

Report Date/Time: Monday, February 16, 2026 09:27:41

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 6.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	232478.2	0.6	41.8587	0.500	1.2	ug/L	657	KED
	Ni -4	60	102470.2	0.3	41.9903	0.307	0.7	ug/L	284	KED
	Ni -5	62	15478.0	1.1	41.8246	0.246	0.6	ug/L	51	KED
	As-2	75	16364.0	0.8	40.4314	0.581	1.4	ug/L	7	KED
	Y-1	89	66049.0	0.5				ug/L	69192	KED
	Rh-1	103	80819.3	0.4				ug/L	87249	KED
>	Ge-1	72	60180.8	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	104.647	
	Ni -4	60	104.976	
	Ni -5	62	104.561	
	As-2	75	101.078	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		97.291

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 16, 2026 09:30:02

Report Date/Time: Monday, February 16, 2026 09:30:42

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 7.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	117398.2	0.4	21.3116	0.179	0.8	ug/L	657	KED
	Ni -4	60	51634.5	0.4	21.3252	0.136	0.6	ug/L	284	KED
	Ni -5	62	7840.8	1.3	21.3711	0.230	1.1	ug/L	51	KED
	As-2	75	8177.0	2.8	20.4601	0.649	3.2	ug/L	7	KED
	Y-1	89	65283.5	0.6				ug/L	69192	KED
	Rh-1	103	80048.7	0.6				ug/L	87249	KED
>	Ge-1	72	59362.4	0.4				ug/L	61857	KED

QC Calculated Values

Internal	Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
		Ni -3	58	106.558	
		Ni -4	60	106.626	
		Ni -5	62	106.855	
		As-2	75	102.301	
		Y-1	89		
		Rh-1	103		
>		Ge-1	72		95.968

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, February 16, 2026 09:33:02

Report Date/Time: Monday, February 16, 2026 09:33:42

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 8.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	789.8	2.7	-0.1001	0.003	3.1	ug/L	657	KED
	Ni -4	60	318.7	7.3	-0.1267	0.009	7.0	ug/L	284	KED
	Ni -5	62	59.7	14.4	-0.0640	0.023	36.2	ug/L	51	KED
	As-2	75	13.3	37.7	-0.0120	0.012	102.1	ug/L	7	KED
	Y-1	89	67595.9	0.6				ug/L	69192	KED
	Rh-1	103	82544.5	1.5				ug/L	87249	KED
>	Ge-1	72	61580.4	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		99.554

Quantitative Analysis - Summary Report

Sample ID: MB0216D1 2X

Sample Date/Time: Monday, February 16, 2026 09:35:13

Report Date/Time: Monday, February 16, 2026 09:35:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\MB0216D1 2X.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	820.2	1.9	-0.0949	0.002	2.5	ug/L	657	KED
	Ni -4	60	336.0	5.4	-0.1199	0.007	5.9	ug/L	284	KED
	Ni -5	62	46.7	11.8	-0.0987	0.015	14.8	ug/L	51	KED
	As-2	75	8.3	90.9	-0.0241	0.018	75.7	ug/L	7	KED
	Y-1	89	67391.6	0.9				ug/L	69192	KED
	Rh-1	103	81806.6	0.1				ug/L	87249	KED
>	Ge-1	72	61661.8	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		99.685

Quantitative Analysis - Summary Report

Sample ID: SB0216D1 2X

Sample Date/Time: Monday, February 16, 2026 09:38:14

Report Date/Time: Monday, February 16, 2026 09:38:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\SB0216D1 2X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	236816.8	0.6	42.8191	0.095	0.2	ug/L	657	KED
	Ni -4	60	103008.7	0.5	42.3865	0.051	0.1	ug/L	284	KED
	Ni -5	62	15678.6	1.7	42.5459	0.710	1.7	ug/L	51	KED
	As-2	75	16255.9	0.6	40.3279	0.302	0.7	ug/L	7	KED
	Y-1	89	64785.6	0.4				ug/L	69192	KED
	Rh-1	103	79295.8	0.2				ug/L	87249	KED
>	Ge-1	72	59932.8	0.5				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		96.890

Quantitative Analysis - Summary Report

Sample ID: 02-071-01a 10X

Sample Date/Time: Monday, February 16, 2026 09:41:13

Report Date/Time: Monday, February 16, 2026 09:41:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-01a 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3509.8	0.4	0.5671	0.005	1.0	ug/L	657	KED
	Ni -4	60	1535.7	1.4	0.5488	0.011	2.0	ug/L	284	KED
	Ni -5	62	397.3	5.7	1.1481	0.079	6.9	ug/L	51	KED
	As-2	75	72.7	4.2	0.1840	0.011	5.9	ug/L	7	KED
	Y-1	89	50390.0	0.4				ug/L	69192	KED
	Rh-1	103	54654.7	0.2				ug/L	87249	KED
>	Ge-1	72	47397.8	0.6				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		76.625

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a 10X

Sample Date/Time: Monday, February 16, 2026 09:44:13

Report Date/Time: Monday, February 16, 2026 09:44:52

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a 10X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	1943.1	4.9	0.1162	0.017	14.9	ug/L	657	KED
	Ni -4	60	545.0	4.4	-0.0277	0.011	38.7	ug/L	284	KED
	Ni -5	62	120.0	6.3	0.1074	0.020	18.4	ug/L	51	KED
	As-2	75	422.3	2.3	1.0127	0.024	2.4	ug/L	7	KED
	Y-1	89	66230.5	0.7				ug/L	69192	KED
	Rh-1	103	77614.6	0.9				ug/L	87249	KED
>	Ge-1	72	59472.9	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		96.146

Quantitative Analysis - Summary Report

Sample ID: 02-071-03a 10X

Sample Date/Time: Monday, February 16, 2026 09:47:11

Report Date/Time: Monday, February 16, 2026 09:47:51

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-03a 10X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3562.7	1.3	0.5030	0.011	2.2	ug/L	657	KED
	Ni -4	60	1605.8	2.0	0.5072	0.016	3.2	ug/L	284	KED
	Ni -5	62	388.7	6.5	0.9934	0.079	8.0	ug/L	51	KED
	As-2	75	87.0	11.0	0.2035	0.027	13.0	ug/L	7	KED
	Y-1	89	55738.5	0.0				ug/L	69192	KED
	Rh-1	103	60343.9	0.9				ug/L	87249	KED
>	Ge-1	72	52261.8	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		84.489

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a D 10X

Sample Date/Time: Monday, February 16, 2026 09:50:40

Report Date/Time: Monday, February 16, 2026 09:51:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a D 10X.058

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	1826.1	3.4	0.1133	0.006	5.2	ug/L	657	KED
	Ni -4	60	458.3	3.6	-0.0532	0.009	16.5	ug/L	284	KED
	Ni -5	62	105.0	9.4	0.0825	0.032	38.8	ug/L	51	KED
	As-2	75	399.7	7.0	1.0112	0.057	5.6	ug/L	7	KED
	Y-1	89	63321.4	1.6				ug/L	69192	KED
	Rh-1	103	75677.9	1.2				ug/L	87249	KED
>	Ge-1	72	56333.5	1.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		91.071

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a L 50X

Sample Date/Time: Monday, February 16, 2026 09:53:39

Report Date/Time: Monday, February 16, 2026 09:54:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a L 50X.059

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	569.6	6.5	-0.1396	0.007	4.8	ug/L	657	KED
	Ni -4	60	176.3	6.4	-0.1845	0.005	2.6	ug/L	284	KED
	Ni -5	62	31.3	19.2	-0.1398	0.016	11.4	ug/L	51	KED
	As-2	75	72.7	9.7	0.1304	0.017	12.7	ug/L	7	KED
	Y-1	89	68622.8	0.7				ug/L	69192	KED
	Rh-1	103	83827.2	0.3				ug/L	87249	KED
>	Ge-1	72	61931.6	0.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		100.121

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a MS 10X

Sample Date/Time: Monday, February 16, 2026 09:56:39

Report Date/Time: Monday, February 16, 2026 09:57:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a MS 10X.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	201307.8	0.6	36.5137	0.203	0.6	ug/L	657	KED
	Ni -4	60	88497.3	0.4	36.5301	0.113	0.3	ug/L	284	KED
	Ni -5	62	13424.3	2.4	36.5477	0.903	2.5	ug/L	51	KED
	As-2	75	16005.0	0.4	39.8683	0.280	0.7	ug/L	7	KED
	Y-1	89	65876.5	0.8				ug/L	69192	KED
	Rh-1	103	77568.7	0.6				ug/L	87249	KED
>	Ge-1	72	59687.1	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		96.493

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a MSD 10X

Sample Date/Time: Monday, February 16, 2026 09:59:40

Report Date/Time: Monday, February 16, 2026 10:00:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a MSD 10X.061

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	14032.3	0.2	36.7535	0.283	0.8	ug/L	657	KED
	Ni -4	60	93913.0	0.3	36.7005	0.351	1.0	ug/L	284	KED
	Ni -5	62	14251.4	0.3	36.7319	0.312	0.9	ug/L	51	KED
	As-2	75	16705.8	1.1	39.3963	0.695	1.8	ug/L	7	KED
	Y-1	89	69543.9	0.4				ug/L	69192	KED
	Rh-1	103	81405.6	0.1				ug/L	87249	KED
>	Ge-1	72	63050.5	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		101.930

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 16, 2026 10:02:40

Report Date/Time: Monday, February 16, 2026 10:03:20

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\QC Std 6.062

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	229572.8	1.2	41.3234	0.189	0.5	ug/L	657	KED
	Ni -4	60	100356.6	0.9	41.1118	0.249	0.6	ug/L	284	KED
	Ni -5	62	15074.6	0.4	40.7242	0.267	0.7	ug/L	51	KED
	As-2	75	16289.6	0.6	40.2395	0.204	0.5	ug/L	7	KED
	Y-1	89	66347.4	1.6				ug/L	69192	KED
	Rh-1	103	81068.0	0.6				ug/L	87249	KED
>	Ge-1	72	60189.5	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	103.308	
	Ni -4	60	102.779	
	Ni -5	62	101.811	
	As-2	75	100.599	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		97.305

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 16, 2026 10:05:41

Report Date/Time: Monday, February 16, 2026 10:06:21

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 7.063

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	115617.3	1.2	21.0709	0.036	0.2	ug/L	657	KED
	Ni -4	60	50336.2	0.9	20.8687	0.057	0.3	ug/L	284	KED
	Ni -5	62	7637.4	1.1	20.8976	0.199	1.0	ug/L	51	KED
	As-2	75	8199.7	2.1	20.5982	0.249	1.2	ug/L	7	KED
	Y-1	89	64993.2	0.4				ug/L	69192	KED
	Rh-1	103	79833.8	0.7				ug/L	87249	KED
>	Ge-1	72	59120.8	1.1				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	105.354	
	Ni -4	60	104.343	
	Ni -5	62	104.488	
	As-2	75	102.991	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		95.577

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, February 16, 2026 10:08:42

Report Date/Time: Monday, February 16, 2026 10:09:22

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 8.064

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	511.7	5.3	-0.1485	0.004	2.5	ug/L	657	KED
	Ni -4	60	233.0	5.9	-0.1603	0.007	4.1	ug/L	284	KED
	Ni -5	62	37.7	24.7	-0.1216	0.024	20.1	ug/L	51	KED
	As-2	75	8.3	42.1	-0.0239	0.009	36.9	ug/L	7	KED
	Y-1	89	67317.6	1.4				ug/L	69192	KED
	Rh-1	103	83350.1	1.0				ug/L	87249	KED
>	Ge-1	72	61008.0	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		98.628

Quantitative Analysis - Summary Report

Sample ID: MB0216WM1 2X

Sample Date/Time: Monday, February 16, 2026 10:11:09

Report Date/Time: Monday, February 16, 2026 10:11:49

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\MB0216WM1 2X.065

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	173.4	3.9	-0.2053	0.001	0.5	ug/L	657	KED
	Ni -4	60	75.0	5.8	-0.2211	0.002	0.7	ug/L	284	KED
	Ni -5	62	14.3	35.8	-0.1797	0.015	8.3	ug/L	51	KED
	As-2	75	7.7	32.8	-0.0234	0.007	29.4	ug/L	7	KED
	Y-1	89	59181.3	0.7				ug/L	69192	KED
	Rh-1	103	72256.6	0.5				ug/L	87249	KED
>	Ge-1	72	54704.5	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		88.438

Quantitative Analysis - Summary Report

Sample ID: SB0216WM1 2X

Sample Date/Time: Monday, February 16, 2026 10:14:09

Report Date/Time: Monday, February 16, 2026 10:14:49

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\SB0216WM1 2X.066

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	217019.3	0.8	38.1197	0.080	0.2	ug/L	657	KED
	Ni -4	60	94671.0	0.7	37.8431	0.200	0.5	ug/L	284	KED
	Ni -5	62	14274.5	1.0	37.6345	0.736	2.0	ug/L	51	KED
	As-2	75	15137.0	0.9	36.5017	0.367	1.0	ug/L	7	KED
	Y-1	89	67123.3	0.5				ug/L	69192	KED
	Rh-1	103	81062.7	1.2				ug/L	87249	KED
>	Ge-1	72	61651.8	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		99.669

Sample ID: SB0216WM1 2X

Report Date/Time: Monday, February 16, 2026 10:14:49

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b 5X

Sample Date/Time: Monday, February 16, 2026 10:18:33

Report Date/Time: Monday, February 16, 2026 10:19:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b 5X.067

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	2237.6	9.8	0.2205	0.043	19.4	ug/L	657	KED
	Ni -4	60	883.0	5.6	0.1585	0.020	12.6	ug/L	284	KED
	Ni -5	62	157.3	8.3	0.2633	0.040	15.2	ug/L	51	KED
	As-2	75	689.0	2.4	1.8925	0.041	2.2	ug/L	7	KED
	Y-1	89	58047.4	1.0				ug/L	69192	KED
	Rh-1	103	66454.6	1.1				ug/L	87249	KED
>	Ge-1	72	52950.3	0.8				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		85.602

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b D 5X

Sample Date/Time: Monday, February 16, 2026 10:21:32

Report Date/Time: Monday, February 16, 2026 10:22:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b D 5X.068

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	2404.7	8.1	0.2124	0.036	17.2	ug/L	657	KED
	Ni -4	60	925.0	6.9	0.1411	0.029	20.7	ug/L	284	KED
	Ni -5	62	149.3	9.5	0.1989	0.039	19.8	ug/L	51	KED
	As-2	75	692.0	4.6	1.7334	0.076	4.4	ug/L	7	KED
	Y-1	89	64165.1	0.7				ug/L	69192	KED
	Rh-1	103	72290.8	1.9				ug/L	87249	KED
>	Ge-1	72	57938.3	0.5				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		93.665

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b L 25X

Sample Date/Time: Monday, February 16, 2026 10:24:32

Report Date/Time: Monday, February 16, 2026 10:25:11

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b L 25X.069

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	953.9	3.2	-0.0564	0.005	9.1	ug/L	657	KED
	Ni -4	60	269.0	6.5	-0.1373	0.008	5.8	ug/L	284	KED
	Ni -5	62	40.3	5.7	-0.1060	0.008	7.3	ug/L	51	KED
	As-2	75	145.3	9.5	0.3378	0.040	11.8	ug/L	7	KED
	Y-1	89	60737.9	1.2				ug/L	69192	KED
	Rh-1	103	71767.2	1.0				ug/L	87249	KED
>	Ge-1	72	56660.5	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		91.600

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b MS 5X

Sample Date/Time: Monday, February 16, 2026 10:27:31

Report Date/Time: Monday, February 16, 2026 10:28:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b MS 5X.070

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	190268.7	0.2	42.3878	0.183	0.4	ug/L	657	KED
	Ni -4	60	83717.6	0.1	42.4465	0.049	0.1	ug/L	284	KED
	Ni -5	62	12588.5	0.7	42.0888	0.263	0.6	ug/L	51	KED
	As-2	75	14654.8	0.2	44.8008	0.025	0.1	ug/L	7	KED
	Y-1	89	53467.9	0.8				ug/L	69192	KED
	Rh-1	103	60363.3	0.6				ug/L	87249	KED
>	Ge-1	72	48640.3	0.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		78.634

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b MSD 5X

Sample Date/Time: Monday, February 16, 2026 10:30:30

Report Date/Time: Monday, February 16, 2026 10:31:09

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b MSD 5X.071

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	191056.1	0.8	36.0430	0.655	1.8	ug/L	657	KED
	Ni -4	60	83987.2	0.9	36.0543	0.322	0.9	ug/L	284	KED
	Ni -5	62	12772.7	1.3	36.1630	0.284	0.8	ug/L	51	KED
	As-2	75	14585.8	1.6	37.7838	0.252	0.7	ug/L	7	KED
	Y-1	89	62755.2	1.2				ug/L	69192	KED
	Rh-1	103	70900.2	0.4				ug/L	87249	KED
>	Ge-1	72	57389.4	1.0				ug/L	61857	KED

QC Calculated Values

Internal	Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
		Ni -3	58		
		Ni -4	60		
		Ni -5	62		
		As-2	75		
		Y-1	89		
		Rh-1	103		
>		Ge-1	72		92.778

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b PS 5X

Sample Date/Time: Monday, February 16, 2026 10:33:29

Report Date/Time: Monday, February 16, 2026 10:34:08

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b PS 5X.072

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	203483.8	0.2	38.1047	0.098	0.3	ug/L	657	KED
	Ni -4	60	89558.2	0.8	38.1668	0.182	0.5	ug/L	284	KED
	Ni -5	62	13557.1	1.2	38.1049	0.545	1.4	ug/L	51	KED
	As-2	75	15692.9	1.3	40.3481	0.610	1.5	ug/L	7	KED
	Y-1	89	62882.1	0.7				ug/L	69192	KED
	Rh-1	103	71682.7	0.6				ug/L	87249	KED
>	Ge-1	72	57829.1	0.4				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		93.489

Quantitative Analysis - Summary Report

Sample ID: 02-071-01b 10X

Sample Date/Time: Monday, February 16, 2026 10:36:29

Report Date/Time: Monday, February 16, 2026 10:37:08

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-01b 10X.073

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3136.8	0.6	0.4486	0.002	0.5	ug/L	657	KED
	Ni -4	60	1406.4	3.5	0.4476	0.018	4.0	ug/L	284	KED
	Ni -5	62	320.0	3.2	0.8311	0.025	3.1	ug/L	51	KED
	As-2	75	81.7	11.6	0.2006	0.029	14.5	ug/L	7	KED
	Y-1	89	52585.6	1.0				ug/L	69192	KED
	Rh-1	103	57339.9	1.0				ug/L	87249	KED
>	Ge-1	72	49650.1	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		80.266

Quantitative Analysis - Summary Report

Sample ID: 02-071-03b 10X

Sample Date/Time: Monday, February 16, 2026 10:39:29

Report Date/Time: Monday, February 16, 2026 10:40:08

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-03b 10X.074

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3050.4	1.7	0.4215	0.014	3.4	ug/L	657	KED
	Ni -4	60	1346.7	3.3	0.4096	0.018	4.5	ug/L	284	KED
	Ni -5	62	328.0	7.0	0.8447	0.081	9.5	ug/L	51	KED
	As-2	75	74.3	1.6	0.1759	0.005	2.6	ug/L	7	KED
	Y-1	89	54572.4	0.3				ug/L	69192	KED
	Rh-1	103	59510.7	0.3				ug/L	87249	KED
>	Ge-1	72	50262.6	0.6				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		81.257

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 16, 2026 10:42:29

Report Date/Time: Monday, February 16, 2026 10:43:09

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 6.075

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	223645.0	1.5	39.9320	0.253	0.6	ug/L	657	KED
	Ni -4	60	98277.3	2.4	39.9333	0.607	1.5	ug/L	284	KED
	Ni -5	62	14862.1	2.2	39.8261	0.578	1.5	ug/L	51	KED
	As-2	75	16581.6	0.8	40.6394	0.063	0.2	ug/L	7	KED
	Y-1	89	68351.8	0.4				ug/L	69192	KED
	Rh-1	103	83500.0	0.7				ug/L	87249	KED
>	Ge-1	72	60665.2	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	99.830	
	Ni -4	60	99.833	
	Ni -5	62	99.565	
	As-2	75	101.599	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		98.074

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 16, 2026 10:45:30

Report Date/Time: Monday, February 16, 2026 10:46:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 7.076

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	114420.6	1.5	20.5209	0.061	0.3	ug/L	657	KED
	Ni -4	60	50266.6	1.2	20.5103	0.127	0.6	ug/L	284	KED
	Ni -5	62	7536.3	2.4	20.2898	0.158	0.8	ug/L	51	KED
	As-2	75	8198.0	1.7	20.2722	0.027	0.1	ug/L	7	KED
	Y-1	89	67149.8	1.3				ug/L	69192	KED
	Rh-1	103	82179.4	0.9				ug/L	87249	KED
>	Ge-1	72	60061.4	1.8				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	102.604	
	Ni -4	60	102.551	
	Ni -5	62	101.449	
	As-2	75	101.361	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		97.098

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, February 16, 2026 10:48:31

Report Date/Time: Monday, February 16, 2026 10:49:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 8.077

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	485.4	2.3	-0.1556	0.001	0.6	ug/L	657	KED
	Ni -4	60	215.3	8.4	-0.1700	0.006	3.6	ug/L	284	KED
	Ni -5	62	47.3	8.0	-0.0991	0.010	10.5	ug/L	51	KED
	As-2	75	9.0	44.4	-0.0228	0.010	42.7	ug/L	7	KED
	Y-1	89	69002.9	0.6				ug/L	69192	KED
	Rh-1	103	84357.7	0.7				ug/L	87249	KED
>	Ge-1	72	62767.6	1.2				ug/L	61857	KED

QC Calculated Values

Internal	Standard	Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
			Ni -3	58		
			Ni -4	60		
			Ni -5	62		
			As-2	75		
			Y-1	89		
			Rh-1	103		
>			Ge-1	72		101.473

Work continued from Page

Std Name	Lab ID	Source	Source ID	Exp	Initial conc ppm	Initial vol ml	Final conc ppm	Final vol ml	Comments	Int	Date
Std 1	TM12-7901	6020 100x	TM12-7802	2-23-26	.2	.05	.0002	50	5% H ₂ O ₂	Kom	2-16-26
2	02	I	I	I	I	.125	.0005	I	I	I	I
3	03	6020 10x	TM12-7801	I	2	.05	.002	I	I	I	I
4	04	I	I	I	I	.125	.005	I	I	I	I
5	05	IV 6020 Cal-1	V2MEB742014	12-5-26	20	.05	.102	I	I	I	I
6	06	I	I	I	I	.10	.01	I	I	I	I
7	07	I	I	I	I	.25	.10	I	I	I	I
IW	08	IVPECHK 1	V2MEB739735	5-27-26	10	.25	.05	I	I	I	I

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Dissolved Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

User Name: kmckinney

Computer Name: DESKTOP-RIRVUDN

Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\

Report Date/Time: Monday, February 16, 2026 10:51:00

2-16-26
KPM

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [STD/KED] Nebulizer		07:54:16 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
SmartTune - CQID		07:55:55 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
SmartTune - CQID		07:58:03 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
SmartTune - CQID		08:00:14 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
SmartTune - MMass Calibration and		08:02:31 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
SmartTune - [STD] Performance Ch		08:03:12 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Blank	09:03:32 Mon 16-F	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 1	09:05:43 Mon 16-F	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 2	09:07:54 Mon 16-F	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 3	09:10:05 Mon 16-F	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 4	09:12:16 Mon 16-F	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 5	09:14:27 Mon 16-F	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 6	09:16:39 Mon 16-F	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	Standard 7	09:18:49 Mon 16-F	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 1	09:21:50 Mon 16-F	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 2	09:24:51 Mon 16-F	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 6	09:27:02 Mon 16-F	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 7	09:30:02 Mon 16-F	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 8	09:33:02 Mon 16-F	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	MB0216D1 2X	09:35:13 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	SB0216D1 2X	09:38:14 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-01a 10X	09:41:13 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02a 10X	09:44:13 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-03a 10X	09:47:11 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02a D 10X	09:50:40 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02a L 50X	09:53:39 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02a MS 10X	09:56:39 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02a MSD 10X	09:59:40 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 6	10:02:40 Mon 16-F	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 7	10:05:41 Mon 16-F	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 8	10:08:42 Mon 16-F	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	MB0216WM1 2X	10:11:09 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	SB0216WM1 2X <i>2-16-26</i>	10:14:09 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02b 5X	10:18:33 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02b D 5X	10:21:32 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02b L 25X	10:24:32 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02b MS 5X	10:27:31 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02b MSD 5X	10:30:30 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-02b PS 5X	10:33:29 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-01b 10X	10:36:29 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	02-071-03b 10X	10:39:29 Mon 16-F	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 6	10:42:29 Mon 16-F	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 7	10:45:30 Mon 16-F	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	
	QC Std 8	10:48:31 Mon 16-F	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\	

SmartTune Wizard - Details

Optimization Details

smartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Optimization Status

Start Time: 2/16/2026 8:02:31 AM

Mass Calibration and Resolution

Optimization Settings:

Method: Optimizations\Tuning.mth.

MassCal File: Default.tun

Iterations: 6

Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.708)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.703)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)

Target/Obtained mass (207.977/208.025), Target/Obtained resolution (0.7/0.686)

Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.682)

[Passed] Optimum value(s): N/A

End Time: 2/16/2026 8:03:00 AM

Performance Check Report

Sample ID: [STD] Performance Check

Sample Date/Time: Monday, February 16, 2026 08:03:12

Sample Description:

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Optimizations\STD Performance Check.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\[STD] Performance Check.020

MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD	Mode
	Li	7.0		77392.3		77392.336		137.021		0.2	Standard
	In	114.9		398866.2		398866.185		826.451		0.2	Standard
	U	238.1		276793.5		276793.525		519.757		0.2	Standard
	Ce	CeO	155.9		12209.5		0.022	0.000		0.6	Standard
Ce	Ce++	70.0		3067.8		0.006		0.000		1.6	Standard
Ce	Bkgd	220.5		0.1		0.067		0.091		136.9	Standard
	Ce	139.9		548418.1		548418.054		907.539		0.2	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.98	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1881.00	Standard - Analog Stage
1650.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-13.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Ammonia DRC - Hyperskimmer Park Voltage
0.98	Ammonia DRC - DRC Mode NEB
5.00	Helium KED - OmniRing Park Voltage
2.00	Helium KED - Hyperskimmer Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Optimization Status

Start Time: 2/16/2026 8:03:12 AM

[STD] Performance Check

Optimization Settings:

Method: \Optimizations\STD Performance Check.mth.

Intensity Criterion: Li 7 > 55000

Intensity Criterion: In 115 > 300000

Intensity Criterion: U 238 > 225000

Intensity Criterion: Bkgd 220.5 <= 5

Formula Criterion: $\text{Ce}^{++} \ 70 \div \text{Ce} \ 140 \leq 0.03$

Formula Criterion: $\text{CeO} \ 156 \div \text{Ce} \ 140 \leq 0.025$

RSD Criterion: Li 7.016 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Li 7): 77392.34

Obtained Intensity (In 115): 398866.18

Obtained Intensity (U 238): 276793.52

Obtained Intensity (Bkgd 220.5): 0.07

Obtained Formula ($\text{Ce}^{++} \ 70 \div \text{Ce} \ 140$): 0.006 (=3067.80 ÷ 548418.05)

Obtained Formula ($\text{CeO} \ 156 \div \text{Ce} \ 140$): 0.022 (=12209.55 ÷ 548418.05)

Obtained RSD (Li 7): 0.0018

Obtained RSD (In 115): 0.0021

Obtained RSD (U 238): 0.0019

[Passed] optimum value(s): N/A

End Time : 2/16/2026 8:05:17 AM

Quantitative Analysis Calibration Report

File Name:

File Path:

Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni -3	57.935	Weighted Linear	0.09	0.01	0.998793
Ni -4	59.933	Weighted Linear	0.04	0.01	0.998938
Ni -5	61.928	Weighted Linear	0.01	0.00	0.998761
As-2	74.922	Weighted Linear	0.01	0.00	0.999019
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: **Blank**

Sample Date/Time: Monday, February 16, 2026 09:03:32

Report Date/Time: Monday, February 16, 2026 09:04:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Blank.040

Results (Mean Data)

IS	Analyte Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	657.0	2.6			ug/L		KED
	Ni -4	60	284.3	4.1			ug/L		KED
	Ni -5	62	50.7	19.0			ug/L		KED
	As-2	75	7.3	47.9			ug/L		KED
	Y-1	89	69191.8	0.8			ug/L		KED
	Rh-1	103	87248.6	0.6			ug/L		KED
>	Ge-1	72	61856.6	0.6			ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, February 16, 2026 09:05:43

Report Date/Time: Monday, February 16, 2026 09:06:23

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 1.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	2038.4	3.2				ug/L	657	KED
	Ni -4	60	879.7	2.9				ug/L	284	KED
	Ni -5	62	142.7	1.5				ug/L	51	KED
	As-2	75	113.3	8.2				ug/L	7	KED
	Y-1	89	76116.9	0.8				ug/L	69192	KED
	Rh-1	103	95929.0	0.4				ug/L	87249	KED
>	Ge-1	72	67343.4	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, February 16, 2026 09:07:54

Report Date/Time: Monday, February 16, 2026 09:08:34

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 2.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	4922.9	1.7				ug/L	657	KED
	Ni -4	60	2203.2	1.8				ug/L	284	KED
	Ni -5	62	320.3	1.8				ug/L	51	KED
	As-2	75	241.7	5.9	0.5000	0.035	6.9	ug/L	7	KED
	Y-1	89	81319.5	1.3				ug/L	69192	KED
	Rh-1	103	101222.4	0.9				ug/L	87249	KED
>	Ge-1	72	71497.5	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, February 16, 2026 09:10:05

Report Date/Time: Monday, February 16, 2026 09:10:45

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 3.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	12142.9	0.9	2.0000	0.010	0.5	ug/L	657	KED
	Ni -4	60	5415.4	0.7	2.0000	0.005	0.3	ug/L	284	KED
	Ni -5	62	801.7	1.8	2.0000	0.031	1.5	ug/L	51	KED
	As-2	75	886.7	0.8	2.0895	0.008	0.4	ug/L	7	KED
	Y-1	89	71652.9	0.9				ug/L	69192	KED
	Rh-1	103	88946.4	0.6				ug/L	87249	KED
>	Ge-1	72	63827.9	0.5				ug/L	61857	KED

QC Calculated Values

Internal Standard	Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
		Ni -3	58		
		Ni -4	60		
		Ni -5	62		
		As-2	75		
		Y-1	89		
		Rh-1	103		
>		Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, February 16, 2026 09:12:16

Report Date/Time: Monday, February 16, 2026 09:12:56

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 4.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	30515.0	0.6	5.1920	0.046	0.9	ug/L	657	KED
	Ni -4	60	13420.0	0.5	5.1654	0.018	0.3	ug/L	284	KED
	Ni -5	62	2049.8	1.6	5.2177	0.121	2.3	ug/L	51	KED
	As-2	75	2167.8	1.8	5.0781	0.057	1.1	ug/L	7	KED
	Y-1	89	71839.2	0.8				ug/L	69192	KED
	Rh-1	103	88862.2	0.6				ug/L	87249	KED
>	Ge-1	72	64355.0	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: **Monday**, February 16, 2026 09:14:27

Report Date/Time: **Monday**, February 16, 2026 09:15:07

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 5.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	116390.7	0.5	21.1174	0.079	0.4	ug/L	657	KED
	Ni -4	60	51376.9	0.3	21.1249	0.079	0.4	ug/L	284	KED
	Ni -5	62	7811.8	2.7	21.1199	0.467	2.2	ug/L	51	KED
	As-2	75	8408.8	1.0	20.7622	0.183	0.9	ug/L	7	KED
	Y-1	89	67017.8	0.7				ug/L	69192	KED
	Rh-1	103	83414.2	1.0				ug/L	87249	KED
>	Ge-1	72	60368.6	0.6				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, February 16, 2026 09:16:39

Report Date/Time: Monday, February 16, 2026 09:17:18

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 6.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	231694.6	0.6	41.3577	0.093	0.2	ug/L	657	KED
	Ni -4	60	101480.5	1.0	41.1523	0.156	0.4	ug/L	284	KED
	Ni -5	62	15345.6	0.7	40.9686	0.207	0.5	ug/L	51	KED
	As-2	75	16706.1	0.8	40.7355	0.213	0.5	ug/L	7	KED
	Y-1	89	67129.0	1.0				ug/L	69192	KED
	Rh-1	103	82758.0	0.4				ug/L	87249	KED
>	Ge-1	72	60819.2	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, February 16, 2026 09:18:49

Report Date/Time: Monday, February 16, 2026 09:19:29

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\Standard 7.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	573321.5	0.5	100.6615	0.781	0.8	ug/L	657	KED
	Ni -4	60	250439.9	0.8	100.0906	0.583	0.6	ug/L	284	KED
	Ni -5	62	37780.6	0.8	99.5288	0.597	0.6	ug/L	51	KED
	As-2	75	41189.0	0.2	98.9714	1.105	1.1	ug/L	7	KED
	Y-1	89	68986.5	0.7				ug/L	69192	KED
	Rh-1	103	85095.7	0.7				ug/L	87249	KED
>	Ge-1	72	61921.9	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, February 16, 2026 09:21:50

Report Date/Time: Monday, February 16, 2026 09:22:30

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\CPMS\DataSet\Y260216A\QC Std 1.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	297499.3	0.3	49.8180	0.113	0.2	ug/L	657	KED
	Ni -4	60	130662.5	0.6	49.7991	0.222	0.4	ug/L	284	KED
	Ni -5	62	19673.2	0.8	49.4391	0.340	0.7	ug/L	51	KED
	As-2	75	21088.2	0.8	48.4214	0.287	0.6	ug/L	7	KED
	Y-1	89	72129.0	0.1				ug/L	69192	KED
	Rh-1	103	87671.9	0.6				ug/L	87249	KED
>	Ge-1	72	64763.8	0.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	99.636	
	Ni -4	60	99.598	
	Ni -5	62	98.878	
	As-2	75	96.843	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		104.700

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, February 16, 2026 09:24:51

Report Date/Time: Monday, February 16, 2026 09:25:30

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

DataSet File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 2.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	767.9	2.3	-0.1049	0.003	2.8	ug/L	657	KED
	Ni -4	60	322.3	4.6	-0.1261	0.006	4.5	ug/L	284	KED
	Ni -5	62	48.7	10.1	-0.0941	0.013	13.7	ug/L	51	KED
	As-2	75	10.7	27.1	-0.0187	0.007	36.8	ug/L	7	KED
	Y-1	89	67848.1	1.1				ug/L	69192	KED
	Rh-1	103	83667.0	1.9				ug/L	87249	KED
>	Ge-1	72	61995.6	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		100.225

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 16, 2026 09:27:02

Report Date/Time: Monday, February 16, 2026 09:27:41

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 6.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	232478.2	0.6	41.8587	0.500	1.2	ug/L	657	KED
	Ni -4	60	102470.2	0.3	41.9903	0.307	0.7	ug/L	284	KED
	Ni -5	62	15478.0	1.1	41.8246	0.246	0.6	ug/L	51	KED
	As-2	75	16364.0	0.8	40.4314	0.581	1.4	ug/L	7	KED
	Y-1	89	66049.0	0.5				ug/L	69192	KED
	Rh-1	103	80819.3	0.4				ug/L	87249	KED
>	Ge-1	72	60180.8	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	104.647	
	Ni -4	60	104.976	
	Ni -5	62	104.561	
	As-2	75	101.078	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		97.291

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 16, 2026 09:30:02

Report Date/Time: Monday, February 16, 2026 09:30:42

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 7.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	117398.2	0.4	21.3116	0.179	0.8	ug/L	657	KED
	Ni -4	60	51634.5	0.4	21.3252	0.136	0.6	ug/L	284	KED
	Ni -5	62	7840.8	1.3	21.3711	0.230	1.1	ug/L	51	KED
	As-2	75	8177.0	2.8	20.4601	0.649	3.2	ug/L	7	KED
	Y-1	89	65283.5	0.6				ug/L	69192	KED
	Rh-1	103	80048.7	0.6				ug/L	87249	KED
>	Ge-1	72	59362.4	0.4				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	106.558	
	Ni -4	60	106.626	
	Ni -5	62	106.855	
	As-2	75	102.301	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		95.968

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, February 16, 2026 09:33:02

Report Date/Time: Monday, February 16, 2026 09:33:42

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 8.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	789.8	2.7	-0.1001	0.003	3.1	ug/L	657	KED
	Ni -4	60	318.7	7.3	-0.1267	0.009	7.0	ug/L	284	KED
	Ni -5	62	59.7	14.4	-0.0640	0.023	36.2	ug/L	51	KED
	As-2	75	13.3	37.7	-0.0120	0.012	102.1	ug/L	7	KED
	Y-1	89	67595.9	0.6				ug/L	69192	KED
	Rh-1	103	82544.5	1.5				ug/L	87249	KED
>	Ge-1	72	61580.4	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		99.554

Quantitative Analysis - Summary Report

Sample ID: MB0216D1 2X

Sample Date/Time: Monday, February 16, 2026 09:35:13

Report Date/Time: Monday, February 16, 2026 09:35:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\MB0216D1 2X.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	820.2	1.9	-0.0949	0.002	2.5	ug/L	657	KED
	Ni -4	60	336.0	5.4	-0.1199	0.007	5.9	ug/L	284	KED
	Ni -5	62	46.7	11.8	-0.0987	0.015	14.8	ug/L	51	KED
	As-2	75	8.3	90.9	-0.0241	0.018	75.7	ug/L	7	KED
	Y-1	89	67391.6	0.9				ug/L	69192	KED
	Rh-1	103	81806.6	0.1				ug/L	87249	KED
>	Ge-1	72	61661.8	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		99.685

Quantitative Analysis - Summary Report

Sample ID: SB0216D1 2X

Sample Date/Time: Monday, February 16, 2026 09:38:14

Report Date/Time: Monday, February 16, 2026 09:38:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\SB0216D1 2X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	236816.8	0.6	42.8191	0.095	0.2	ug/L	657	KED
	Ni -4	60	103008.7	0.5	42.3865	0.051	0.1	ug/L	284	KED
	Ni -5	62	15678.6	1.7	42.5459	0.710	1.7	ug/L	51	KED
	As-2	75	16255.9	0.6	40.3279	0.302	0.7	ug/L	7	KED
	Y-1	89	64785.6	0.4				ug/L	69192	KED
	Rh-1	103	79295.8	0.2				ug/L	87249	KED
>	Ge-1	72	59932.8	0.5				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		96.890

Quantitative Analysis - Summary Report

Sample ID: 02-071-01a 10X

Sample Date/Time: Monday, February 16, 2026 09:41:13

Report Date/Time: Monday, February 16, 2026 09:41:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-01a 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3509.8	0.4	0.5671	0.005	1.0	ug/L	657	KED
	Ni -4	60	1535.7	1.4	0.5488	0.011	2.0	ug/L	284	KED
	Ni -5	62	397.3	5.7	1.1481	0.079	6.9	ug/L	51	KED
	As-2	75	72.7	4.2	0.1840	0.011	5.9	ug/L	7	KED
	Y-1	89	50390.0	0.4				ug/L	69192	KED
	Rh-1	103	54654.7	0.2				ug/L	87249	KED
>	Ge-1	72	47397.8	0.6				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		76.625

Quantitative Analysis - Summary Report

Sample ID: 02-071 -02a 10X

Sample Date/Time: Monday, February 16, 2026 09:44:13

Report Date/Time: Monday, February 16, 2026 09:44:52

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a 10X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	1943.1	4.9	0.1162	0.017	14.9	ug/L	657	KED
	Ni -4	60	545.0	4.4	-0.0277	0.011	38.7	ug/L	284	KED
	Ni -5	62	120.0	6.3	0.1074	0.020	18.4	ug/L	51	KED
	As-2	75	422.3	2.3	1.0127	0.024	2.4	ug/L	7	KED
	Y-1	89	66230.5	0.7				ug/L	69192	KED
	Rh-1	103	77614.6	0.9				ug/L	87249	KED
>	Ge-1	72	59472.9	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		96.146

Quantitative Analysis - Summary Report

Sample ID: 02-071-03a 10X

Sample Date/Time: Monday, February 16, 2026 09:47:11

Report Date/Time: Monday, February 16, 2026 09:47:51

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-03a 10X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3562.7	1.3	0.5030	0.011	2.2	ug/L	657	KED
	Ni -4	60	1605.8	2.0	0.5072	0.016	3.2	ug/L	284	KED
	Ni -5	62	388.7	6.5	0.9934	0.079	8.0	ug/L	51	KED
	As-2	75	87.0	11.0	0.2035	0.027	13.0	ug/L	7	KED
	Y-1	89	55738.5	0.0				ug/L	69192	KED
	Rh-1	103	60343.9	0.9				ug/L	87249	KED
>	Ge-1	72	52261.8	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		84.489

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a D 10X

Sample Date/Time: Monday, February 16, 2026 09:50:40

Report Date/Time: Monday, February 16, 2026 09:51:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a D 10X.058

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	1826.1	3.4	0.1133	0.006	5.2	ug/L	657	KED
	Ni -4	60	458.3	3.6	-0.0532	0.009	16.5	ug/L	284	KED
	Ni -5	62	105.0	9.4	0.0825	0.032	38.8	ug/L	51	KED
	As-2	75	399.7	7.0	1.0112	0.057	5.6	ug/L	7	KED
	Y-1	89	63321.4	1.6				ug/L	69192	KED
	Rh-1	103	75677.9	1.2				ug/L	87249	KED
>	Ge-1	72	56333.5	1.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		91.071

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a L 50X

Sample Date/Time: Monday, February 16, 2026 09:53:39

Report Date/Time: Monday, February 16, 2026 09:54:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a L 50X.059

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	569.6	6.5	-0.1396	0.007	4.8	ug/L	657	KED
	Ni -4	60	176.3	6.4	-0.1845	0.005	2.6	ug/L	284	KED
	Ni -5	62	31.3	19.2	-0.1398	0.016	11.4	ug/L	51	KED
	As-2	75	72.7	9.7	0.1304	0.017	12.7	ug/L	7	KED
	Y-1	89	68622.8	0.7				ug/L	69192	KED
	Rh-1	103	83827.2	0.3				ug/L	87249	KED
>	Ge-1	72	61931.6	0.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		100.121

Quantitative Analysis - Summary Report

Sample ID: 02-071-02a MS 10X

Sample Date/Time: Monday, February 16, 2026 09:56:39

Report Date/Time: Monday, February 16, 2026 09:57:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a MS 10X.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	201307.8	0.6	36.5137	0.203	0.6	ug/L	657	KED
	Ni -4	60	88497.3	0.4	36.5301	0.113	0.3	ug/L	284	KED
	Ni -5	62	13424.3	2.4	36.5477	0.903	2.5	ug/L	51	KED
	As-2	75	16005.0	0.4	39.8683	0.280	0.7	ug/L	7	KED
	Y-1	89	65876.5	0.8				ug/L	69192	KED
	Rh-1	103	77568.7	0.6				ug/L	87249	KED
>	Ge-1	72	59687.1	0.3				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		96.493

Quantitative Analysis - Summary Report

Sample ID: 02-O71-02a MSD 10X

Sample Date/Time: Monday, February 16, 2026 09:59:40

Report Date/Time: Monday, February 16, 2026 10:00:19

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02a MSD 10X.061

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	214032.3	0.2	36.7535	0.283	0.8	ug/L	657	KED
	Ni -4	60	93913.0	0.3	36.7005	0.351	1.0	ug/L	284	KED
	Ni -5	62	14251.4	0.3	36.7319	0.312	0.9	ug/L	51	KED
	As-2	75	16705.8	1.1	39.3963	0.695	1.8	ug/L	7	KED
	Y-1	89	69543.9	0.4				ug/L	69192	KED
	Rh-1	103	81405.6	0.1				ug/L	87249	KED
>	Ge-1	72	63050.5	0.7				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		101.930

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 16, 2026 10:02:40

Report Date/Time: Monday, February 16, 2026 10:03:20

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 6.062

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	229572.8	1.2	41.3234	0.189	0.5	ug/L	657	KED
	Ni -4	60	100356.6	0.9	41.1118	0.249	0.6	ug/L	284	KED
	Ni -5	62	15074.6	0.4	40.7242	0.267	0.7	ug/L	51	KED
	As-2	75	16289.6	0.6	40.2395	0.204	0.5	ug/L	7	KED
	Y-1	89	66347.4	1.6				ug/L	69192	KED
	Rh-1	103	81068.0	0.6				ug/L	87249	KED
>	Ge-1	72	60189.5	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	103.308	
	Ni -4	60	102.779	
	Ni -5	62	101.811	
	As-2	75	100.599	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		97.305

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 16, 2026 10:05:41

Report Date/Time: Monday, February 16, 2026 10:06:21

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 7.063

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	115617.3	1.2	21.0709	0.036	0.2	ug/L	657	KED
	Ni -4	60	50336.2	0.9	20.8687	0.057	0.3	ug/L	284	KED
	Ni -5	62	7637.4	1.1	20.8976	0.199	1.0	ug/L	51	KED
	As-2	75	8199.7	2.1	20.5982	0.249	1.2	ug/L	7	KED
	Y-1	89	64993.2	0.4				ug/L	69192	KED
	Rh-1	103	79833.8	0.7				ug/L	87249	KED
>	Ge-1	72	59120.8	1.1				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	105.354	
	Ni -4	60	104.343	
	Ni -5	62	104.488	
	As-2	75	102.991	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		95.577

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, February 16, 2026 10:08:42

Report Date/Time: Monday, February 16, 2026 10:09:22

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 8.064

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	511.7	5.3	-0.1485	0.004	2.5	ug/L	657	KED
	Ni -4	60	233.0	5.9	-0.1603	0.007	4.1	ug/L	284	KED
	Ni -5	62	37.7	24.7	-0.1216	0.024	20.1	ug/L	51	KED
	As-2	75	8.3	42.1	-0.0239	0.009	36.9	ug/L	7	KED
	Y-1	89	67317.6	1.4				ug/L	69192	KED
	Rh-1	103	83350.1	1.0				ug/L	87249	KED
>	Ge-1	72	61008.0	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		98.628

Quantitative Analysis - Summary Report

Sample ID: MB0216WM1 2X

Sample Date/Time: Monday, February 16, 2026 10:11:09

Report Date/Time: Monday, February 16, 2026 10:11:49

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\MB0216WM1 2X.065

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	173.4	3.9	-0.2053	0.001	0.5	ug/L	657	KED
	Ni -4	60	75.0	5.8	-0.2211	0.002	0.7	ug/L	284	KED
	Ni -5	62	14.3	35.8	-0.1797	0.015	8.3	ug/L	51	KED
	As-2	75	7.7	32.8	-0.0234	0.007	29.4	ug/L	7	KED
	Y-1	89	5918.1	0.7				ug/L	69192	KED
	Rh-1	103	72256.6	0.5				ug/L	87249	KED
>	Ge-1	72	54704.5	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		88.438

Quantitative Analysis - Summary Report

Sample ID: SB0216WM1 2X

Sample Date/Time: Monday, February 16, 2026 10:14:09

Report Date/Time: Monday, February 16, 2026 10:14:49

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\SB0216WM1 2X.066

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	217019.3	0.8	38.1197	0.080	0.2	ug/L	657	KED
	Ni -4	60	94671.0	0.7	37.8431	0.200	0.5	ug/L	284	KED
	Ni -5	62	14274.5	1.0	37.6345	0.736	2.0	ug/L	51	KED
	As-2	75	15137.0	0.9	36.5017	0.367	1.0	ug/L	7	KED
	Y-1	89	67123.3	0.5				ug/L	69192	KED
	Rh-1	103	81062.7	1.2				ug/L	87249	KED
>	Ge-1	72	61651.8	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		99.669

Sample ID: SB0216WM1 2X

Report Date/Time: Monday, February 16, 2026 10:14:49

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b 5X

Sample Date/Time: Monday, February 16, 2026 10:18:33

Report Date/Time: Monday, February 16, 2026 10:19:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b 5X.067

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	2237.6	9.8	0.2205	0.043	19.4	ug/L	657	KED
	Ni -4	60	883.0	5.6	0.1585	0.020	12.6	ug/L	284	KED
	Ni -5	62	157.3	8.3	0.2633	0.040	15.2	ug/L	51	KED
	As-2	75	689.0	2.4	1.8925	0.041	2.2	ug/L	7	KED
	Y-1	89	58047.4	1.0				ug/L	69192	KED
	Rh-1	103	66454.6	1.1				ug/L	87249	KED
>	Ge-1	72	52950.3	0.8				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		85.602

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b D 5X

Sample Date/Time: Monday, February 16, 2026 10:21:32

Report Date/Time: Monday, February 16, 2026 10:22:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b D 5X.068

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	2404.7	8.1	0.2124	0.036	17.2	ug/L	657	KED
	Ni -4	60	925.0	6.9	0.1411	0.029	20.7	ug/L	284	KED
	Ni -5	62	149.3	9.5	0.1989	0.039	19.8	ug/L	51	KED
	As-2	75	692.0	4.6	1.7334	0.076	4.4	ug/L	7	KED
	Y-1	89	64165.1	0.7				ug/L	69192	KED
	Rh-1	103	72290.8	1.9				ug/L	87249	KED
>	Ge-1	72	57938.3	0.5				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		93.665

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b L 25X

Sample Date/Time: Monday, February 16, 2026 10:24:32

Report Date/Time: Monday, February 16, 2026 10:25:11

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b L 25X.069

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	953.9	3.2	-0.0564	0.005	9.1	ug/L	657	KED
	Ni -4	60	269.0	6.5	-0.1373	0.008	5.8	ug/L	284	KED
	Ni -5	62	40.3	5.7	-0.1060	0.008	7.3	ug/L	51	KED
	As-2	75	145.3	9.5	0.3378	0.040	11.8	ug/L	7	KED
	Y-1	89	60737.9	1.2				ug/L	69192	KED
	Rh-1	103	71767.2	1.0				ug/L	87249	KED
>	Ge-1	72	56660.5	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		91.600

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b MS 5X

Sample Date/Time: Monday, February 16, 2026 10:27:31

Report Date/Time: Monday, February 16, 2026 10:28:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b MS 5X.070

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	190268.7	0.2	42.3878	0.183	0.4	ug/L	657	KED
	Ni -4	60	83717.6	0.1	42.4465	0.049	0.1	ug/L	284	KED
	Ni -5	62	12588.5	0.7	42.0888	0.263	0.6	ug/L	51	KED
	As-2	75	14654.8	0.2	44.8008	0.025	0.1	ug/L	7	KED
	Y-1	89	53467.9	0.8				ug/L	69192	KED
	Rh-1	103	60363.3	0.6				ug/L	87249	KED
>	Ge-1	72	48640.3	0.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		78.634

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b MSD 5X

Sample Date/Time: Monday, February 16, 2026 10:30:30

Report Date/Time: Monday, February 16, 2026 10:31:09

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b MSD 5X.071

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	191056.1	0.8	36.0430	0.655	1.8	ug/L	657	KED
	Ni -4	60	83987.2	0.9	36.0543	0.322	0.9	ug/L	284	KED
	Ni -5	62	12772.7	1.3	36.1630	0.284	0.8	ug/L	51	KED
	As-2	75	14585.8	1.6	37.7838	0.252	0.7	ug/L	7	KED
	Y-1	89	62755.2	1.2				ug/L	69192	KED
	Rh-1	103	70900.2	0.4				ug/L	87249	KED
>	Ge-1	72	57389.4	1.0				ug/L	61857	KED

QC Calculated Values

Internal	Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
		Ni -3	58		
		Ni -4	60		
		Ni -5	62		
		As-2	75		
		Y-1	89		
		Rh-1	103		
>		Ge-1	72		92.778

Quantitative Analysis - Summary Report

Sample ID: 02-071-02b PS 5X

Sample Date/Time: Monday, February 16, 2026 10:33:29

Report Date/Time: Monday, February 16, 2026 10:34:08

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-02b PS 5X.072

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	203483.8	0.2	38.1047	0.098	0.3	ug/L	657	KED
	Ni -4	60	89558.2	0.8	38.1668	0.182	0.5	ug/L	284	KED
	Ni -5	62	13557.1	1.2	38.1049	0.545	1.4	ug/L	51	KED
	As-2	75	15692.9	1.3	40.3481	0.610	1.5	ug/L	7	KED
	Y-1	89	62882.1	0.7				ug/L	69192	KED
	Rh-1	103	71682.7	0.6				ug/L	87249	KED
>	Ge-1	72	57829.1	0.4				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		93.489

Quantitative Analysis - Summary Report

Sample ID: 02-071-01b 10X

Sample Date/Time: Monday, February 16, 2026 10:36:29

Report Date/Time: Monday, February 16, 2026 10:37:08

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-01b 10X.073

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3136.8	0.6	0.4486	0.002	0.5	ug/L	657	KED
	Ni -4	60	1406.4	3.5	0.4476	0.018	4.0	ug/L	284	KED
	Ni -5	62	320.0	3.2	0.8311	0.025	3.1	ug/L	51	KED
	As-2	75	81.7	11.6	0.2006	0.029	14.5	ug/L	7	KED
	Y-1	89	52585.6	1.0				ug/L	69192	KED
	Rh-1	103	57339.9	1.0				ug/L	87249	KED
>	Ge-1	72	49650.1	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		80.266

Quantitative Analysis - Summary Report

Sample ID: 02-071-03b 10X

Sample Date/Time: Monday, February 16, 2026 10:39:29

Report Date/Time: Monday, February 16, 2026 10:40:08

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\02-071-03b 10X.074

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	3050.4	1.7	0.4215	0.014	3.4	ug/L	657	KED
	Ni -4	60	1346.7	3.3	0.4096	0.018	4.5	ug/L	284	KED
	Ni -5	62	328.0	7.0	0.8447	0.081	9.5	ug/L	51	KED
	As-2	75	74.3	1.6	0.1759	0.005	2.6	ug/L	7	KED
	Y-1	89	54572.4	0.3				ug/L	69192	KED
	Rh-1	103	59510.7	0.3				ug/L	87249	KED
>	Ge-1	72	50262.6	0.6				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		81.257

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 16, 2026 10:42:29

Report Date/Time: Monday, February 16, 2026 10:43:09

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 6.075

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	223645.0	1.5	39.9320	0.253	0.6	ug/L	657	KED
	Ni -4	60	98277.3	2.4	39.9333	0.607	1.5	ug/L	284	KED
	Ni -5	62	14862.1	2.2	39.8261	0.578	1.5	ug/L	51	KED
	As-2	75	16581.6	0.8	40.6394	0.063	0.2	ug/L	7	KED
	Y-1	89	68351.8	0.4				ug/L	69192	KED
	Rh-1	103	83500.0	0.7				ug/L	87249	KED
>	Ge-1	72	60665.2	0.9				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58	99.830	
	Ni -4	60	99.833	
	Ni -5	62	99.565	
	As-2	75	101.599	
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		98.074

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 16, 2026 10:45:30

Report Date/Time: Monday, February 16, 2026 10:46:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 7.076

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	114420.6	1.5	20.5209	0.061	0.3	ug/L	657	KED
	Ni -4	60	50266.6	1.2	20.5103	0.127	0.6	ug/L	284	KED
	Ni -5	62	7536.3	2.4	20.2898	0.158	0.8	ug/L	51	KED
	As-2	75	8198.0	1.7	20.2722	0.027	0.1	ug/L	7	KED
	Y-1	89	67149.8	1.3				ug/L	69192	KED
	Rh-1	103	82179.4	0.9				ug/L	87249	KED
>	Ge-1	72	60061.4	1.8				ug/L	61857	KED

QC Calculated Values

Internal	Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
		Ni -3	58	102.604	
		Ni -4	60	102.551	
		Ni -5	62	101.449	
		As-2	75	101.361	
		Y-1	89		
		Rh-1	103		
>		Ge-1	72		97.098

Sample ID: QC Std 7

Report Date/Time: Monday, February 16, 2026 10:46:10

Page 1

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, February 16, 2026 10:48:31

Report Date/Time: Monday, February 16, 2026 10:49:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y260216A.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y260216A\QC Std 8.077

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
	Ni -3	58	485.4	2.3	-0.1556	0.001	0.6	ug/L	657	KED
	Ni -4	60	215.3	8.4	-0.1700	0.006	3.6	ug/L	284	KED
	Ni -5	62	47.3	8.0	-0.0991	0.010	10.5	ug/L	51	KED
	As-2	75	9.0	44.4	-0.0228	0.010	42.7	ug/L	7	KED
	Y-1	89	69002.9	0.6				ug/L	69192	KED
	Rh-1	103	84357.7	0.7				ug/L	87249	KED
>	Ge-1	72	62767.6	1.2				ug/L	61857	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
	Ni -3	58		
	Ni -4	60		
	Ni -5	62		
	As-2	75		
	Y-1	89		
	Rh-1	103		
>	Ge-1	72		101.473

Work continued from Page

Std Name	Lab ID	Source	Source ID	Exp	Initial conc ppm	Initial vol ml	Final conc ppm	Final vol ml	Comments	Int	Date
Std 1	TM12-7901	6020 100x	TM12-7802	2-23-26	.2	.05	.0002	50	5% H ₂ O ₂	Kom	2-16-26
2	02	↓	↓	↓	↓	.125	.0005	↓	↓	↓	↓
3	03	6020 10x	TM12-7801	↓	2	.05	.002	↓	↓	↓	↓
4	04	↓	↓	↓	↓	.125	.005	↓	↓	↓	↓
5	05	IV 6020 cal-1	V2ME8742014	12-5-26	20	.05	.102	↓	↓	↓	↓
6	06	↓	↓	↓	↓	.10	.04	↓	↓	↓	↓
7	07	↓	↓	↓	↓	.25	.10	↓	↓	↓	↓
IW	08	IV PECHK 1	V2ME8739735	5-27-26	10	.25	.05	↓	↓	↓	↓

Work continued to Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

QC BATCH #:	02-071-02b
MATRIX:	water
ANALYSIS METHOD:	3015

SPIKE ID# IV6020 Cal-1

70

Attachment 3
Data Validation Report

Project:	Dakota Creek Industries, Anacortes, Washington
Date:	March 23, 2026
GEI File No:	5147-006-19
Subject:	Post-Construction Compliance Groundwater Monitoring – February 2026 Groundwater Monitoring Event

This report documents the results of a United States Environmental Protection Agency (USEPA) defined Stage 2B data validation (USEPA 2009) of the analytical data from the analyses of water samples collected as part of the February 2026 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Dakota Creek Industries (DCI) Site located at 155 Q Avenue (north of 3rd Street between Commercial Avenue and R 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b) 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 Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022), 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 and 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 SDG	SAMPLES VALIDATED
2602-071	MW-2B-260205, DUP-1-260205, MW-8-260205

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the samples using the following methods:

- Polycyclic Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) Method SW8270E-SIM; and
- Total and Dissolved Metals by EPA Method 200.8

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 accurate and complete when submitted to the laboratory, with the following exception:

- **SDG 2602-071:** The laboratory noted that the sample IDs on the sample vial labels did not match the sample IDs listed on the COC. The sample IDs on the sample vial labels were updated to match the sample IDs on the COC, as requested on the COC.

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. The sample cooler arrived at the laboratory outside the appropriate temperatures of between two and six degrees Celsius at 6.6 degrees Celsius. It was determined through professional judgment that since the sample cooler temperature was just outside the upper temperature control limit, this temperature should not affect the sample analytical results.

Samples for PAH analysis were placed in laboratory prepared containers with hydrochloric acid (HCL) in accordance with method guidelines. Samples for metals analysis were placed in laboratory prepared containers with nitric acid (HNO₃) in accordance with method guidelines. Samples for dissolved metal analysis were filtered in the field using a 0.45-micron inline filter prior to collection.

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 for GeoEngineers samples were met for each analysis and the %R and RPD values were within the proper control limits.

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 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 less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. 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 2602-071:** One field duplicate sample pair, MW-2B-260205 and DUP-1-260205, was submitted with this SDG. The precision criteria for the target analytes were met for 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. The relative standard deviation (%RSD) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the 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. The percent difference (%D) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

REPORTING LIMITS

The reporting limits were met by the laboratory for the target analytes throughout this sampling event.

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 percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data is acceptable for the intended use.

References

- GeoEngineers, Inc. (GeoEngineers) 2022. Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), Dakota Creek Industries, Anacortes, Washington. Prepared for Washington State Department of Ecology on Behalf of Port of Anacortes. GEI File No. 5147-006-16. November 1, 2022.
- 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.

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Attachment 4
Historical Groundwater Chemical Analytical Data

Table D-1
Historical Groundwater Chemical Analytical Data
Dakota Creek Industries
Anacortes, Washington

Groundwater Monitoring Well ¹	Date Sampled	Sampled By	Units	Depth to Water (Feet)	Water Elevation (MLLW)	Total Metals ²		Dissolved Metals ²		Carcinogenic Polycyclic Aromatic Hydrocarbons ³ (cPAHs)							
						Arsenic	Nickel	Arsenic	Nickel	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total cPAH TEQ ⁴ (ND=0.5RL)
MW-1	09/04/01	Landau	µg/L	N/A	N/A	-	-	9.0	10 U	-	-	-	-	-	-	-	-
	10/24/01	Landau	µg/L	N/A	N/A	-	-	6.0	2.3	-	-	-	-	-	-	-	-
	06/05/02	Landau	µg/L	N/A	N/A	5.0	3.8	4.0	2.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.41 U
	08/19/02	Landau	µg/L	N/A	N/A	0.6	4.2	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 U
	11/17/06	Floyd Snider	µg/L	6.21	7.74	3.3	2.1	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.07 U
	06/17/08	GEI	µg/L	6.36	7.59	4.8	3.2	-	-	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.013 U
	06/17/08 ⁵	GEI	µg/L	6.36	7.59	4.9	3.3	-	-	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.013 U
	05/23/12	GEI	µg/L	6.27	7.68	17 U	8 U	15 U	8 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.07 U
	08/16/12	GEI	µg/L	6.52	7.43	15	8 U	15	8 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.07 U
	11/13/12	GEI	µg/L	6.37	7.58	16 U	5.4	16 U	5 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.07 U
	02/13/13	GEI	µg/L	6.14	7.81	15	8 U	14	8 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.07 U
	02/10/16	GEI	µg/L	5.98	7.97	1.3	-	1.2 J	-	-	-	-	-	-	-	-	-
08/18/16	GEI	µg/L	6.71	7.24	9.2	-	7.8 U	-	-	-	-	-	-	-	-	-	
02/15/17	GEI	µg/L	5.81	8.14	11	-	5.6	-	-	-	-	-	-	-	-	-	
08/23/17	GEI	µg/L	6.69	7.26	5.6 U	-	5.6 U	-	-	-	-	-	-	-	-	-	
MW-2	09/04/01	Landau	µg/L	N/A	N/A	-	-	3.0	10 U	-	-	-	-	-	-	-	-
	10/24/01	Landau	µg/L	N/A	N/A	-	-	0.5	7.0	-	-	-	-	-	-	-	-
	10/24/01	Landau	µg/L	N/A	N/A	-	-	0.5	0.7	-	-	-	-	-	-	-	-
	06/05/02	Landau	µg/L	N/A	N/A	3.0	7.5	3.0	7.5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.41 U
	06/05/02 ⁵	Landau	µg/L	N/A	N/A	3.0	7.5	3.0	7.5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.41 U
	08/19/02	Landau	µg/L	N/A	N/A	4.0	9.9	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 U
	08/19/02 ⁵	Landau	µg/L	N/A	N/A	2.0	8.2	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 U
	11/17/06	Floyd Snider	µg/L	6.81	8.26	4.0	3.9	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.0069 J	0.01 U	0.01 U	0.007
	11/17/06 ⁵	Floyd Snider	µg/L	6.81	8.26	3.8	3.9	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.007 U
06/17/08	GEI	µg/L	7.67	7.4	3.4	2.4	-	-	0.03	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.015	
MW-2A	05/23/12	GEI	µg/L	10.38	4.69	12 U	20 U	11 U	20 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/16/12	GEI	µg/L	10.31	4.76	7.5 U	17	7.5 U	16	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	11/13/12	GEI	µg/L	8.02	7.05	10 U	13	10 U	13	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/13/13	GEI	µg/L	8.42	6.65	6.0	8 U	7.0	8 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	02/10/16	GEI	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2B	08/19/16	GEI	µg/L	9.29	5.44	6.0	6.9	6.5	6.0	-	-	-	-	-	-	-	-
	02/15/17	GEI	µg/L	7.84	6.89	7.8 U	7.8 U	7 U	7 U	-	-	-	-	-	-	-	-
	08/23/17	GEI	µg/L	9.45	5.28	5.6 U	8.2	5 U	8.3	-	-	-	-	-	-	-	-
	11/28/23	GEI	µg/L	7.21	7.52	7.8 U	9.6	8.0 U	9.1	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	02/14/24	GEI	µg/L	7.74	6.99	6.9 U	6.9 U	6.3 U	6.3 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	05/21/24	GEI	µg/L	9.22	5.51	5.6 U	13	5.0 U	5.2	0.026	0.024	0.0095 U	0.015	0.016	0.0095 U	0.024	0.022
	08/19/24	GEI	µg/L	9.55	5.18	6.9	5.6 U	5.9	5.0 U	0.016	0.017	0.0094 U	0.01	0.0094 U	0.0094 U	0.0094 U	0.014
	08/13/25	GEI	µg/L	8.95	5.78	6.8	5.9	5.3	5.8	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	08/13/25 ⁵	GEI	µg/L	8.95	5.78	6.7	5.6	5.1	5.6	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	02/05/26	GEI	µg/L	7.25	7.48	5.6 U	5.6 U	5.5 U	5.5 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
02/05/26 ⁵	GEI	µg/L	7.25	7.48	5.6 U	5.6 U	5.5 U	5.5 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U	
MW-3	09/04/01	Landau	µg/L	N/A	N/A	-	-	1.0	10 U	-	-	-	-	-	-	-	-
	09/04/01	Landau	µg/L	N/A	N/A	-	-	2.0	10 U	-	-	-	-	-	-	-	-
	10/24/01	Landau	µg/L	N/A	N/A	-	-	1 U	2.7	-	-	-	-	-	-	-	-
	06/05/02	Landau	µg/L	N/A	N/A	1 U	3.4	0.1 U	0.33	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.41 U
	08/19/02	Landau	µg/L	N/A	N/A	1.0	3.7	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 U
	11/17/06	Floyd Snider	µg/L	4.45	10.38	0.9	1.5	-	-	0.0052 J	0.01 U	0.01 U	0.01 U	0.0065 J	0.01 U	0.01 U	0.007 J
	06/17/08	GEI	µg/L	5.03	9.8	0.8	2.2	-	-	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.013 U
	05/23/12	GEI	µg/L	10.55	4.28	4 U	8 U	4.5 U	8 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/16/12	GEI	µg/L	10.29	4.54	7.5 U	19	7.5 U	18	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	11/13/12	GEI	µg/L	7.5	7.33	8 U	18	8 U	17	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/13/13	GEI	µg/L	9.55	5.28	8 U	16	8 U	18	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/11/16	GEI	µg/L	8.73	6.1	-	0.5 J	-	0.5 U	-	-	-	-	-	-	-	-
	08/19/16	GEI	µg/L	9.74	5.09	-	7.8 U	-	7 U	-	-	-	-	-	-	-	-
	02/16/17	GEI	µg/L	9.01	5.82	-	5.6 U	-	5 U	-	-	-	-	-	-	-	-
08/24/17	GEI	µg/L	10.06	4.77	-	5.6 U	-	5 U	-	-	-	-	-	-	-	-	
MW-3A	11/28/23	GEI	µg/L	6.78	8.05	7.8 U	7.8 U	8.0 U	8.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/14/24	GEI	µg/L	9.98	4.85	6.9 U	6.9 U	6.3 U	6.3 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	05/21/24	GEI	µg/L	10.45	4.38												

Groundwater Monitoring Well ¹	Date Sampled	Sampled By	Units	Depth to Water (Feet)	Water Elevation (MLLW)	Total Metals ²		Dissolved Metals ²		Carcinogenic Polycyclic Aromatic Hydrocarbons ³ (cPAHs)								
						Arsenic	Nickel	Arsenic	Nickel	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total cPAH TEQ ⁴ (ND=0.5RL)	
MW-7	05/23/12	GEI	µg/L	6.48	6.88	11 U	20 U	9.8 U	20 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U	
	08/16/12	GEI	µg/L	6.68	6.68	10	27	7.5 U	27	0.027	0.0094 U	0.014	0.0094 U	0.014	0.0094 U	0.0094 U	0.01	
	11/13/12	GEI	µg/L	6.04	7.32	8 U	18	8 U	19	0.013	0.0097	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.013	
	02/13/13	GEI	µg/L	6.47	6.89	9.0	18	8.0	18	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U	
	02/10/16	GEI	µg/L	6.46	6.9	12.9	9.9	13	5.2 J	-	-	-	-	-	-	-	-	
	08/19/16	GEI	µg/L	6.74	6.62	12	11	11	10	-	-	-	-	-	-	-	-	
	02/16/17	GEI	µg/L	5.49	7.87	9.2	6.7	7.1	6.6	-	-	-	-	-	-	-	-	
08/23/17	GEI	µg/L	6.69	6.67	14	8.8	12	9.3	-	-	-	-	-	-	-	-		
MW-8	02/10/16	GEI	µg/L	7.01	6.79	16.6	9.1	16.1	7.4	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U	
	02/10/16 ⁵	GEI	µg/L	7.01	6.79	16.1	8.4	16.3	7.8	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U	
	08/18/16	GEI	µg/L	7.71	6.09	16	7.8 U	15	7.8 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U	
	08/18/16 ⁵	GEI	µg/L	7.71	6.09	14	7.8 U	14	7.8 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U	
	02/15/17	GEI	µg/L	6.69	7.11	12	5.6 U	12	5 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U	
	02/15/17 ⁵	GEI	µg/L	6.69	7.11	5.6 U	5.6 U	5 U	5 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U	
	08/23/17	GEI	µg/L	7.71	6.09	17	6.7	17	5.6 U	0.1	0.12	0.18	0.068	0.14	0.024 U	0.094	0.167	
	08/23/17 ⁵	GEI	µg/L	7.71	6.09	17	6.0	15	5.6 U	0.02	0.029	0.042	0.014	0.029	0.0094 U	0.026	0.04	
	11/28/23	GEI	µg/L	7.08	6.72	18	7.8 U	14	8.0 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U	
	02/14/24	GEI	µg/L	6.72	7.08	16	6.9 U	16	6.3 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U	
	05/21/24	GEI	µg/L	7.73	6.07	19	5.6 U	18	5.6 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U	
	08/19/24	GEI	µg/L	7.42	6.38	17	5.6 U	19	5.0 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U	
	08/13/25	GEI	µg/L	7.79	6.01	18	5.6 U	18	5.0 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U	
	02/05/26	GEI	µg/L	6.80	7.00	11	2.8 U	10	5.5 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U	
Groundwater Cleanup Level						8.0	8.2	8.0	8.2	see cPAH TEQ								0.01

Notes:

¹ Monitoring well locations shown in Figure 2.

² Total and dissolved metals analyzed by United States Environmental Protection Agency (EPA) Method 200.8.

³ Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA method 8270/SIM.

⁴ Total cPAHs calculated using toxic equivalency quotient (TEQ) methodology relative to benzo(a)pyrene. Non-detect cPAH compounds were assigned a value of one half of the reporting limit for these calculations.

⁵ A field duplicate groundwater sample was obtained from this monitoring well.

MLLW = Mean Lower Low Water

µg/L = microgram per liter

RL = Reporting Limit

U = Laboratory qualifier indicating analyte not detected at level above listed reporting limit

Bold indicates analyte was detected.

Italics indicates non-detect analyte concentration greater than the Site-Specific Groundwater Cleanup Level.

Shading indicates analyte was detected at a concentration greater than the Site-Specific Groundwater Cleanup Level.