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October 23, 2025

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

Attention: David Horne

Subject: Post-Construction Compliance Groundwater Monitoring Report – August 2025 Groundwater Monitoring Event
Dakota Creek Industries
Anacortes, Washington
Facility/Site No.: 2670
Cleanup Site ID: 5174
GeoEngineers File No. 5147-006-19

Introduction

This document presents the results of August 2025 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 one 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 is requiring 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 is being completed on a semi-annual basis at Ecology selected monitoring well locations to further evaluate groundwater conditions at the Site (Figure 2). Post-construction groundwater monitoring activities were completed by the Port in accordance with the Ecology-approved CMP. The sampling locations, procedures and chemical analysis for the groundwater monitoring activities are summarized in the following sections. The need for additional rounds of post-construction compliance groundwater monitoring will be determined by Ecology.

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 – Anticipated for February 2026

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 are being sampled to further evaluate post-construction groundwater conditions at the Site. The post-construction groundwater compliance monitoring wells are shown relative to the completed 2023 Cleanup Action area 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 Site. Measured groundwater levels are summarized in Table 1.

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 August 2025 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 U.S. 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 August 2025 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 office.

DEVIATIONS FROM THE GROUNDWATER MONITORING PROGRAM

Deviations to the groundwater monitoring program were not observed during the August 2025 groundwater monitoring event.

Post-Construction Groundwater Conditions

GROUNDWATER FLOW AND DIRECTION

Measured groundwater elevations ranged between 4.64 and 6.01 feet mean lower low water (MLLW) during the August 2025 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 August 2025 groundwater monitoring event and four previous monitoring events are summarized in Table 1.

ANALYTICAL RESULTS

Groundwater monitoring results for the August 2025 groundwater monitoring event and four 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 DCI[1], 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

[1] 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 August 2025 groundwater monitoring event, cPAHs were not detected.

- **MW-8** – Total and dissolved arsenic continue to exceed the groundwater cleanup level based on the results of the August 2025 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 12 to 19 micrograms per liter (µg/L). As part of the remedial Investigation (RI; GeoEngineers 2022b), soil sampling and analysis was 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.

Discussion

Post-construction compliance groundwater monitoring activities were completed on August 13, 2025, 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 August 2025 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.

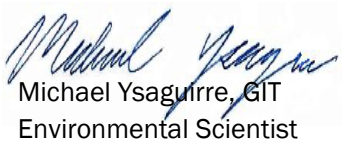
Washington State Department of Ecology (Ecology), 2022. Cleanup Action Plan, Dakota Creek Industries, Anacortes, Washington, Facility Site ID: 2670, Cleanup Site ID: 5147. Prepared by the Washington State Department of Ecology, Toxics Cleanup Program, Olympia, Washington. July.

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.



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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 cPAHs 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

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

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
mV = millivolt
NTU = Nephelometric Turbidity Unit
ORP = oxidation/reduction potential
ppt = parts per thousand
TDS = total dissolved solids
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
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]
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]
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
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

ND = Non-Detect

RL = Reporting Limit

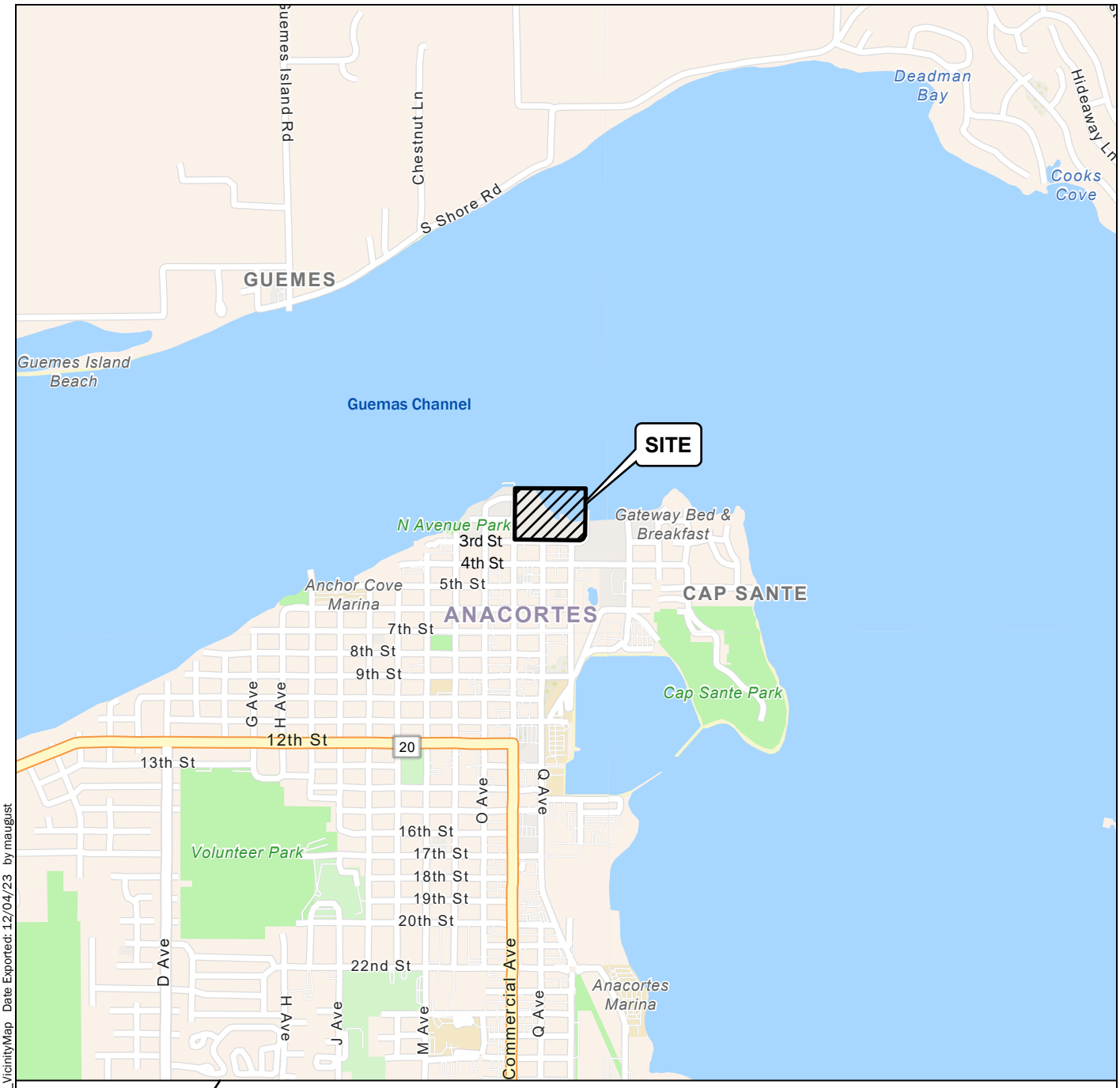
U = Laboratory qualifier indicating analyte not detected at level above listed reporting limit

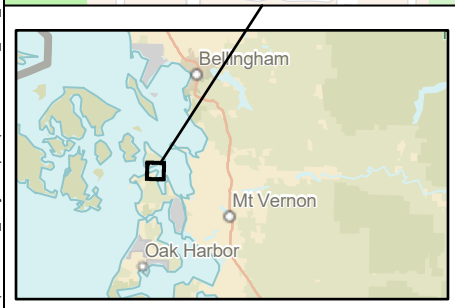
Bold indicates analyte was detected.

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





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Vicinity Map

Dakota Creek Industries
Anacortes, Washington

GeoEngineers

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
- Interum 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

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.

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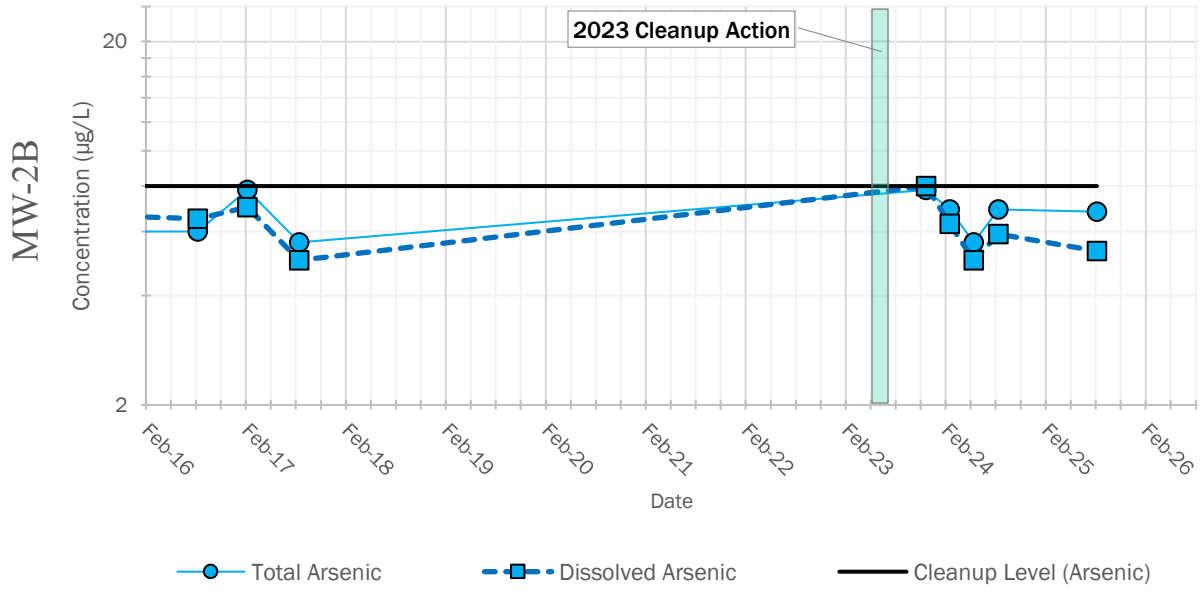
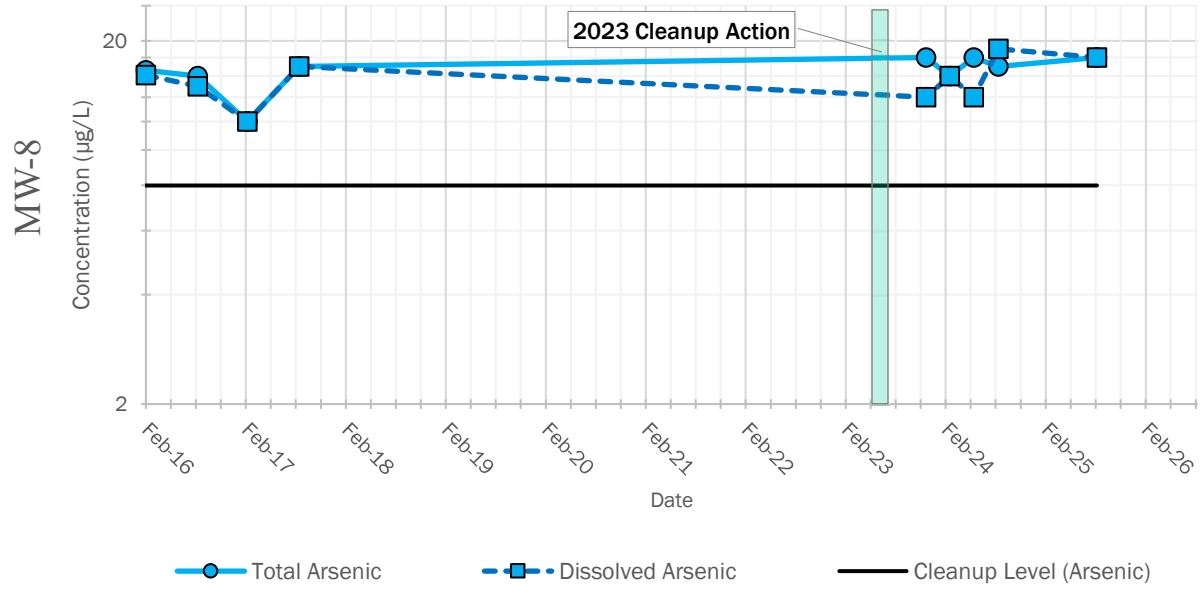
Site Plan

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.

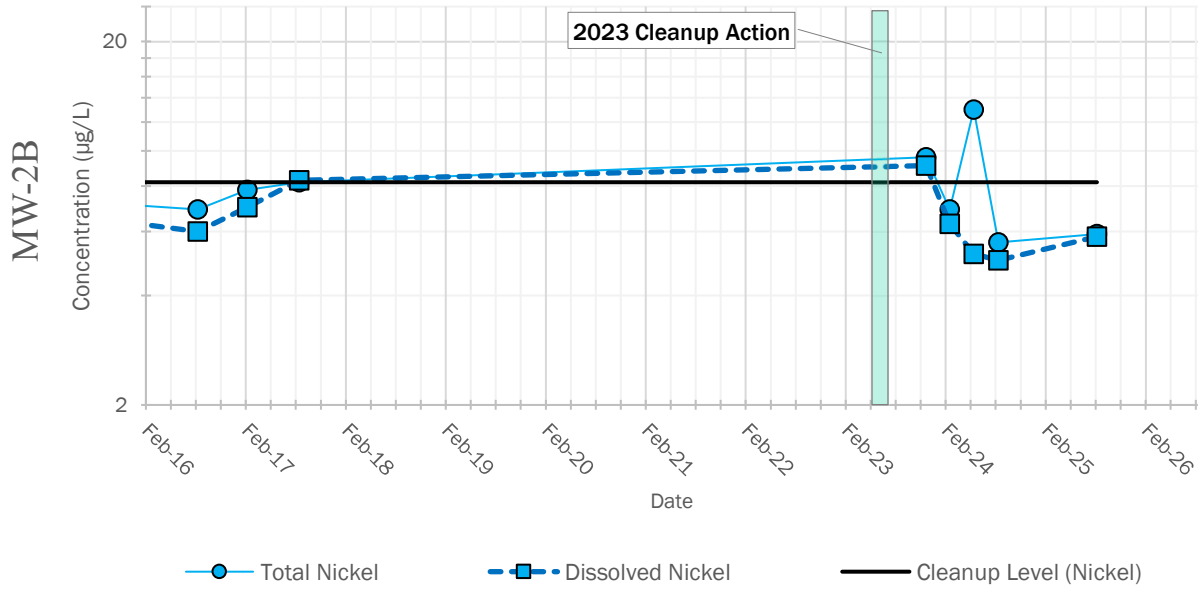
Source(s): Attachment 4, Table 1 - Historical Groundwater Chemical Analytical Data.

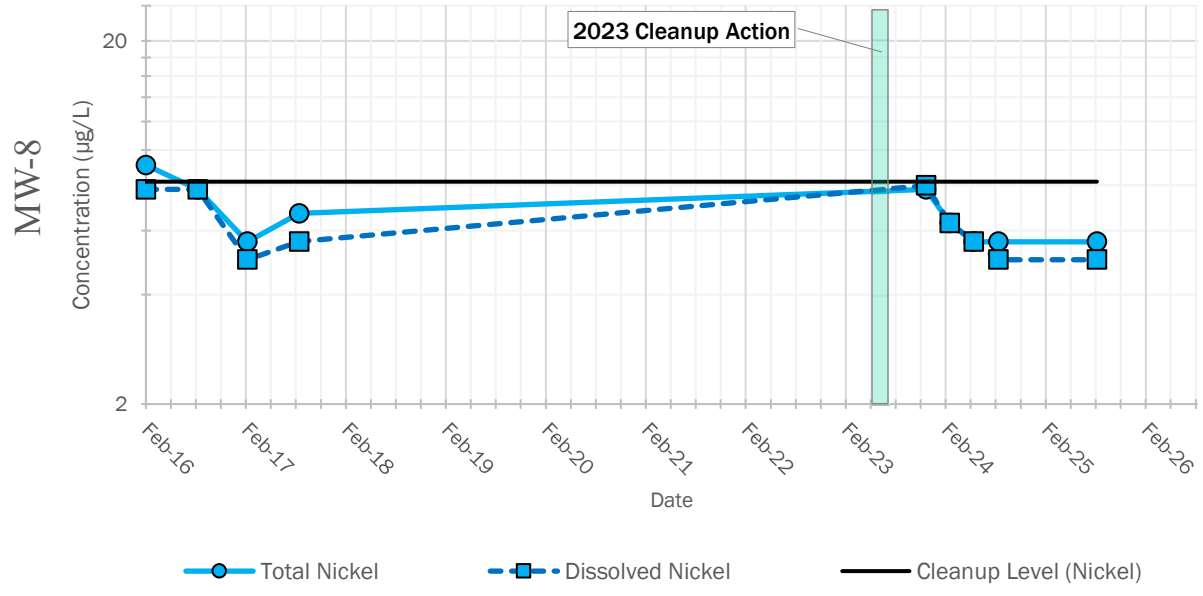
Summary of Arsenic In Groundwater

Dakota Creek Industries
Anacortes, Washington

GeoEngineers

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.

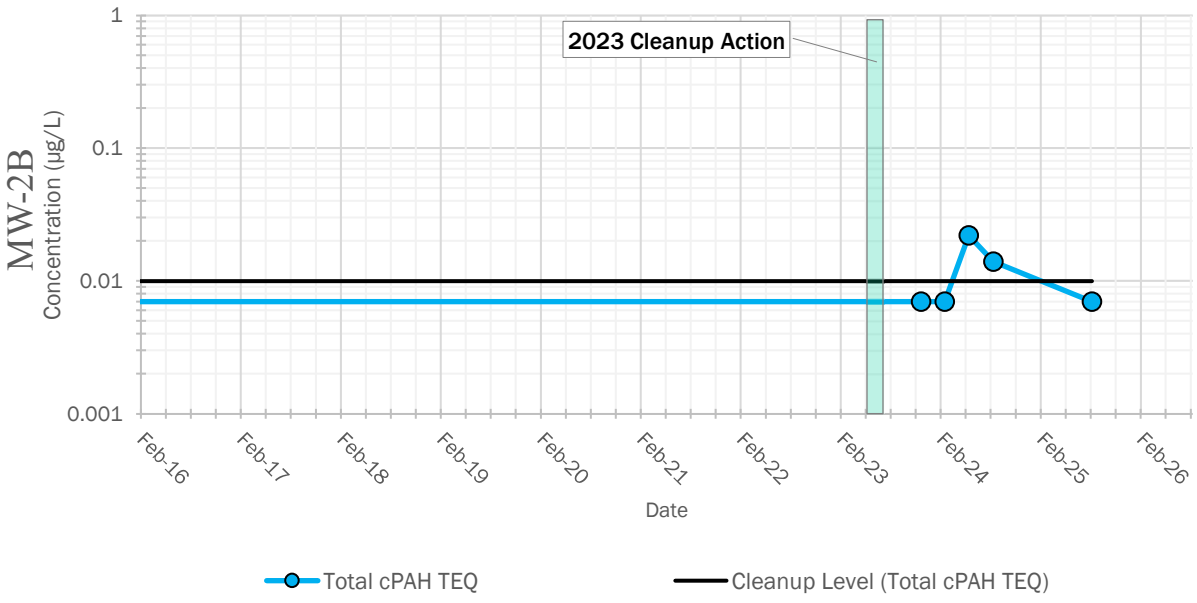
Source(s): Attachment 4, Table 1 - Historical Groundwater Chemical Analytical Data.

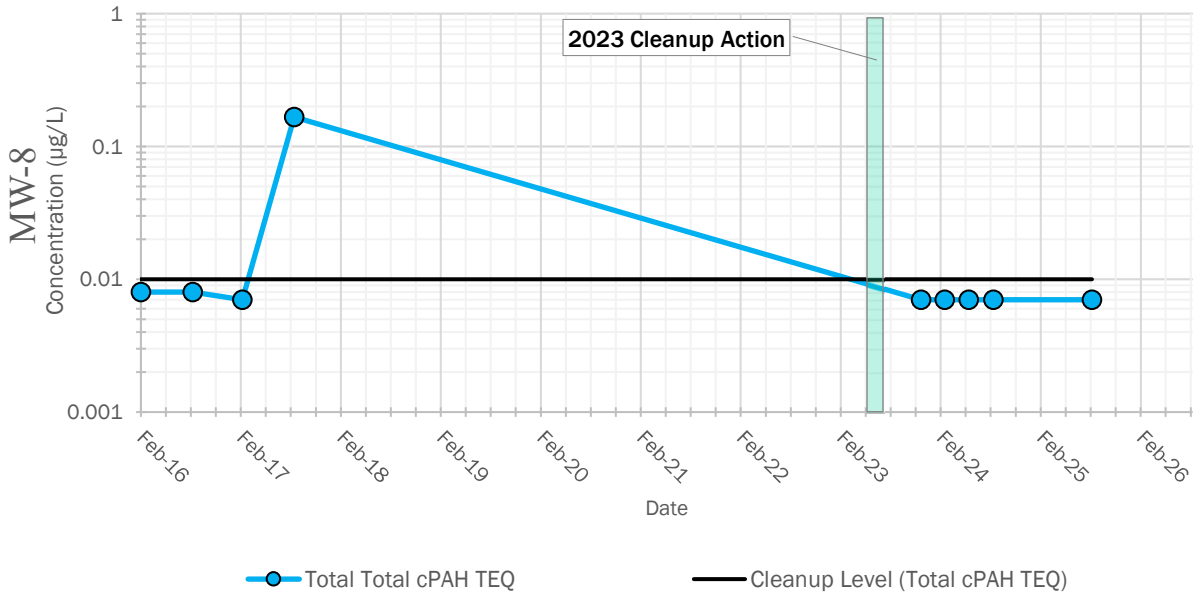
Summary of Nickel In Groundwater

Dakota Creek Industries
Anacortes, Washington

GeoEngineers

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.

Summary of Total cPAH TEQ In Groundwater

Dakota Creek Industries
Anacortes, Washington

GeoEngineers

Figure 5

Attachments

Attachment 1

Monitoring Well Completion Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
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
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
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

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	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

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.

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

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.

KEY TO EXPLORATION LOGS

GeoEngineers

FIGURE A-1

Rev. 02/16

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	8/11/2016	8/11/2016	20.5	NRS	RST	Cascade Drilling, LP	Hollow-Stem Auger

Hammer Data	300 (lbs) / 30 (in) Drop	Drilling Equipment	Mobile B-90
Surface Elevation (ft) Vertical Datum	15.08 MLLW	Top of Casing Elevation (ft)	14.7
Latitude Longitude	48.520904 -122.61031	Horizontal Datum	Geographic NAD83

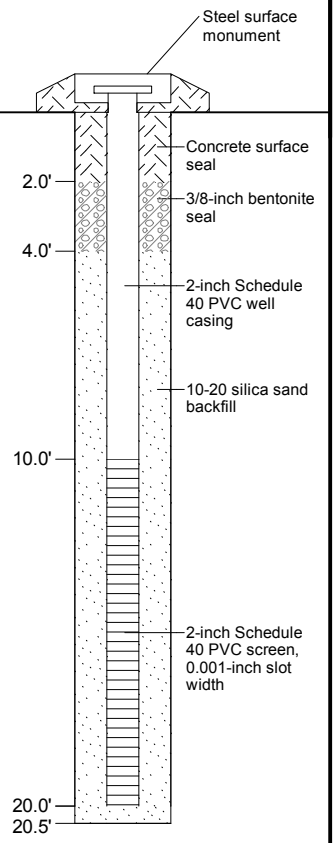
DOE Well I.D.: BJY 162
A 2 (in) well was installed on 8/11/2016 to a depth of 20.5 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/11/2016	10.3	4.5

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot (N_{60})	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0							AC	20 inches asphalt concrete		
								GP	Gray fine to medium sand with gravel		
10	5	16	31		MW-2B-S-1					SS	<1
5	10	0	8		MW-2B-S-2	▼			(Rock in sampler shoe; no recovery)		
								SP-SM	Gray coarse sand with silt and gravel (loose, wet)		
0	15	16	28		MW-2B-S-3					NS	<1
								SM	Gray silty fine sand with occasional organics (dense, wet) (native)		
-5	20	18	21		MW-2B-S-4					NS	<1

WELL LOG



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

Log of Monitoring Well MW-2B

GeoEngineers

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

Figure A-2
Sheet 1 of 1

Seattle: Date:12/6/17 Path:W:\PROJECTS\5147006\GINT\5147006.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

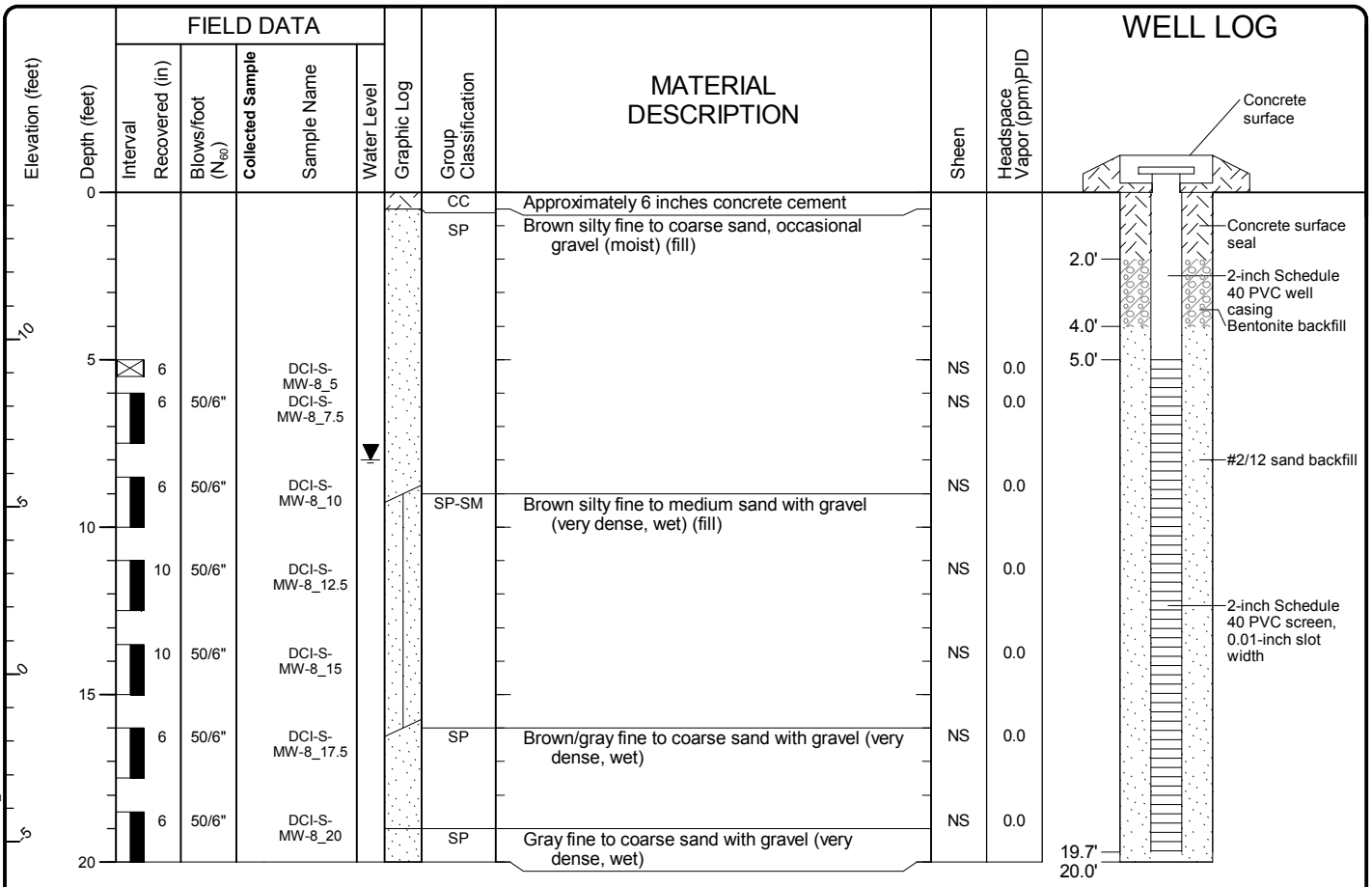
Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	11/4/2015	11/4/2015	20	CVD	RST	Cascade Drilling, LP	Hollow-Stem Auger

Hammer Data	300 (lbs) / 30 (in) Drop	Drilling Equipment	CME-850 Track Rig
Surface Elevation (ft) Vertical Datum	14.39 MLLW	Top of Casing Elevation (ft)	13.8
Latitude Longitude	48.52025611 -122.60916667	Horizontal Datum	Geographic NAD83

DOE Well I.D.: BIX 153
A 2 (in) well was installed on 11/4/2015 to a depth of 20 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
11/4/2015	8.0	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

GeoEngineers

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

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

August 21, 2025

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

Re: Analytical Data for Project 5147-006-19
Laboratory Reference No. 2508-156

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on August 14, 2025.

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,

David Baumeister
Project Manager

Enclosures

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
Project: 5147-006-19

Case Narrative

Samples were collected on August 13, 2025 and received by the laboratory on August 14, 2025. 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: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
Project: 5147-006-19

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2B-250813	08-156-01	Water	8-13-25	8-14-25	
MW-8-250813	08-156-02	Water	8-13-25	8-14-25	
DUP-1-250813	08-156-03	Water	8-13-25	8-14-25	

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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-250813**					
Laboratory ID:	08-156-01					
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	8-15-25	8-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*27-106*				
Pyrene-d10	*86*	*44-107*				
Terphenyl-d14	*90*	*46-114*				
Client ID:	**MW-8-250813**					
Laboratory ID:	08-156-02					
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-15-25	8-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*54*	*27-106*				
Pyrene-d10	*76*	*44-107*				
Terphenyl-d14	*79*	*46-114*				

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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-1-250813**					
Laboratory ID:	08-156-03					
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Chrysene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	8-15-25	8-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*27-106*				
Pyrene-d10	*84*	*44-107*				
Terphenyl-d14	*89*	*46-114*				

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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-250813**					
Laboratory ID:	08-156-01					
Arsenic	**6.8**	5.6	EPA 200.8	8-19-25	8-19-25	
Nickel	**5.9**	5.6	EPA 200.8	8-19-25	8-19-25	
Client ID:	**MW-8-250813**					
Laboratory ID:	08-156-02					
Arsenic	**18**	5.6	EPA 200.8	8-19-25	8-19-25	
Nickel	**ND**	5.6	EPA 200.8	8-19-25	8-19-25	
Client ID:	**DUP-1-250813**					
Laboratory ID:	08-156-03					
Arsenic	**6.7**	5.6	EPA 200.8	8-19-25	8-19-25	
Nickel	**5.6**	5.6	EPA 200.8	8-19-25	8-19-25	

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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-250813**					
Laboratory ID:	08-156-01					
Arsenic	**5.3**	5.0	EPA 200.8		8-19-25	
Nickel	**5.8**	5.0	EPA 200.8		8-19-25	
Client ID:	**MW-8-250813**					
Laboratory ID:	08-156-02					
Arsenic	**18**	5.0	EPA 200.8		8-19-25	
Nickel	**ND**	5.0	EPA 200.8		8-19-25	
Client ID:	**DUP-1-250813**					
Laboratory ID:	08-156-03					
Arsenic	**5.1**	5.0	EPA 200.8		8-19-25	
Nickel	**5.6**	5.0	EPA 200.8		8-19-25	

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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:	MB0815W1					
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Chrysene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	8-15-25	8-15-25	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*76*	*27-106*				
Pyrene-d10	*95*	*44-107*				
Terphenyl-d14	*104*	*46-114*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0815W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	**0.512**	**0.518**	0.500	0.500	102	104	55-123	1	23	
Chrysene	**0.486**	**0.497**	0.500	0.500	97	99	56-114	2	23	
Benzo[b]fluoranthene	**0.518**	**0.521**	0.500	0.500	104	104	55-122	1	34	
Benzo(j,k)fluoranthene	**0.483**	**0.484**	0.500	0.500	97	97	55-118	0	22	
Benzo[a]pyrene	**0.506**	**0.513**	0.500	0.500	101	103	56-115	1	23	
Indeno(1,2,3-c,d)pyrene	**0.493**	**0.506**	0.500	0.500	99	101	54-121	3	28	
Dibenz[a,h]anthracene	**0.496**	**0.505**	0.500	0.500	99	101	56-118	2	23	
Surrogate:										
2-Fluorobiphenyl					*70*	*70*	*27-106*			
Pyrene-d10					*93*	*95*	*44-107*			
Terphenyl-d14					*105*	*107*	*46-114*			

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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:	MB0819WM1					
Arsenic	**ND**	3.3	EPA 200.8	8-19-25	8-19-25	
Nickel	**ND**	5.6	EPA 200.8	8-19-25	8-19-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-183-10										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-183-10										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**105**	**107**	111	111	ND	**95**	**97**	75-125	2	20	
Nickel	**98.3**	**100**	111	111	ND	**89**	**90**	75-125	2	20	

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
Project: 5147-006-19

TOTAL METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV081925Y	50.0	47.0	6.0	+/- 10%
Nickel	ICV081925Y	50.0	47.1	5.8	+/- 10%
Arsenic	CCV1081925Y	40.0	39.7	0.75	+/- 10%
Nickel	CCV1081925Y	40.0	38.0	5.0	+/- 10%
Arsenic	CCV1081925Y	20.0	20.2	-1.0	+/- 10%
Nickel	CCV1081925Y	20.0	19.3	3.5	+/- 10%
Arsenic	CCV2081925Y	40.0	40.1	-0.25	+/- 10%
Nickel	CCV2081925Y	40.0	38.1	4.8	+/- 10%
Arsenic	CCV2081925Y	20.0	20.6	-3.0	+/- 10%
Nickel	CCV2081925Y	20.0	19.6	2.0	+/- 10%
Arsenic	CCV3081925Y	40.0	40.2	-0.50	+/- 10%
Nickel	CCV3081925Y	40.0	37.7	5.7	+/- 10%
Arsenic	CCV3081925Y	20.0	20.2	-1.0	+/- 10%
Nickel	CCV3081925Y	20.0	18.9	5.5	+/- 10%
Arsenic	CCV4081925Y	40.0	40.1	-0.25	+/- 10%
Nickel	CCV4081925Y	40.0	37.6	6.0	+/- 10%
Arsenic	CCV4081925Y	20.0	20.4	-2.0	+/- 10%
Nickel	CCV4081925Y	20.0	18.9	5.5	+/- 10%
Arsenic	CCV5081925Y	40.0	41.7	-4.3	+/- 10%
Nickel	CCV5081925Y	40.0	36.5	8.8	+/- 10%
Arsenic	CCV5081925Y	20.0	20.7	-3.5	+/- 10%
Nickel	CCV5081925Y	20.0	18.3	8.5	+/- 10%

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
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:	MB0819D1					
Arsenic	**ND**	3.0	EPA 200.8		8-19-25	
Nickel	**ND**	5.0	EPA 200.8		8-19-25	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-136-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-136-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**87.9**	**80.3**	80.0	80.0	ND	**110**	**100**	75-125	9	20	
Nickel	**74.3**	**68.2**	80.0	80.0	ND	**93**	**85**	75-125	9	20	

Date of Report: August 21, 2025
Samples Submitted: August 14, 2025
Laboratory Reference: 2508-156
Project: 5147-006-19

DISSOLVED METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV081925Y	50.0	47.0	6.0	+/- 10%
Nickel	ICV081925Y	50.0	47.1	5.8	+/- 10%
Arsenic	CCV1081925Y	40.0	39.7	0.75	+/- 10%
Nickel	CCV1081925Y	40.0	38.0	5.0	+/- 10%
Arsenic	CCV1081925Y	20.0	20.2	-1.0	+/- 10%
Nickel	CCV1081925Y	20.0	19.3	3.5	+/- 10%
Arsenic	CCV2081925Y	40.0	40.1	-0.25	+/- 10%
Nickel	CCV2081925Y	40.0	38.1	4.8	+/- 10%
Arsenic	CCV2081925Y	20.0	20.6	-3.0	+/- 10%
Nickel	CCV2081925Y	20.0	19.6	2.0	+/- 10%
Arsenic	CCV3081925Y	40.0	40.2	-0.50	+/- 10%
Nickel	CCV3081925Y	40.0	37.7	5.7	+/- 10%
Arsenic	CCV3081925Y	20.0	20.2	-1.0	+/- 10%
Nickel	CCV3081925Y	20.0	18.9	5.5	+/- 10%
Arsenic	CCV4081925Y	40.0	40.1	-0.25	+/- 10%
Nickel	CCV4081925Y	40.0	37.6	6.0	+/- 10%
Arsenic	CCV4081925Y	20.0	20.4	-2.0	+/- 10%
Nickel	CCV4081925Y	20.0	18.9	5.5	+/- 10%
Arsenic	CCV5081925Y	40.0	41.7	-4.3	+/- 10%
Nickel	CCV5081925Y	40.0	36.5	8.8	+/- 10%
Arsenic	CCV5081925Y	20.0	20.7	-3.5	+/- 10%
Nickel	CCV5081925Y	20.0	18.3	8.5	+/- 10%

OnSite Environmental Inc.

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

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5147-006-19
Project Name: Dakota Creek Industries
Project Manager: Robert Trahan
Sampled by: Michael Ysaguirre

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 08-156

14

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total & Dissolved Arsenic & Nickel by EPA Method 200.8				% Moisture
1	MW-2B-250813	8/13/25	1405	H_2O	4									x									x				
2	MW-8-250813	1	1510	1	1									x									x				
3	DUP-1-250813		0600											x									x				

	Signature	Company	Date	Time
Relinquished		GeoEngineers	8/14/25	0858
Received		GSS	8/14/25	0858
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-006-19

OnSite Project Number: 08-156

Initiated by: NB

Date Initiated: 8/14/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	4
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
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	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4

3.0 Sample Verification

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

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

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

RAW DATA

- PAHs EPA 8270E/SIM
- Total Metals EPA 200.8
- Dissolved Metals by EPA 200.8

PAHs
EPA 8270E/SIM Data

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815025.D
Acq On : 15 Aug 2025 9:23 pm
Operator : PB
Sample : 08-156-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 15 21:38:05 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

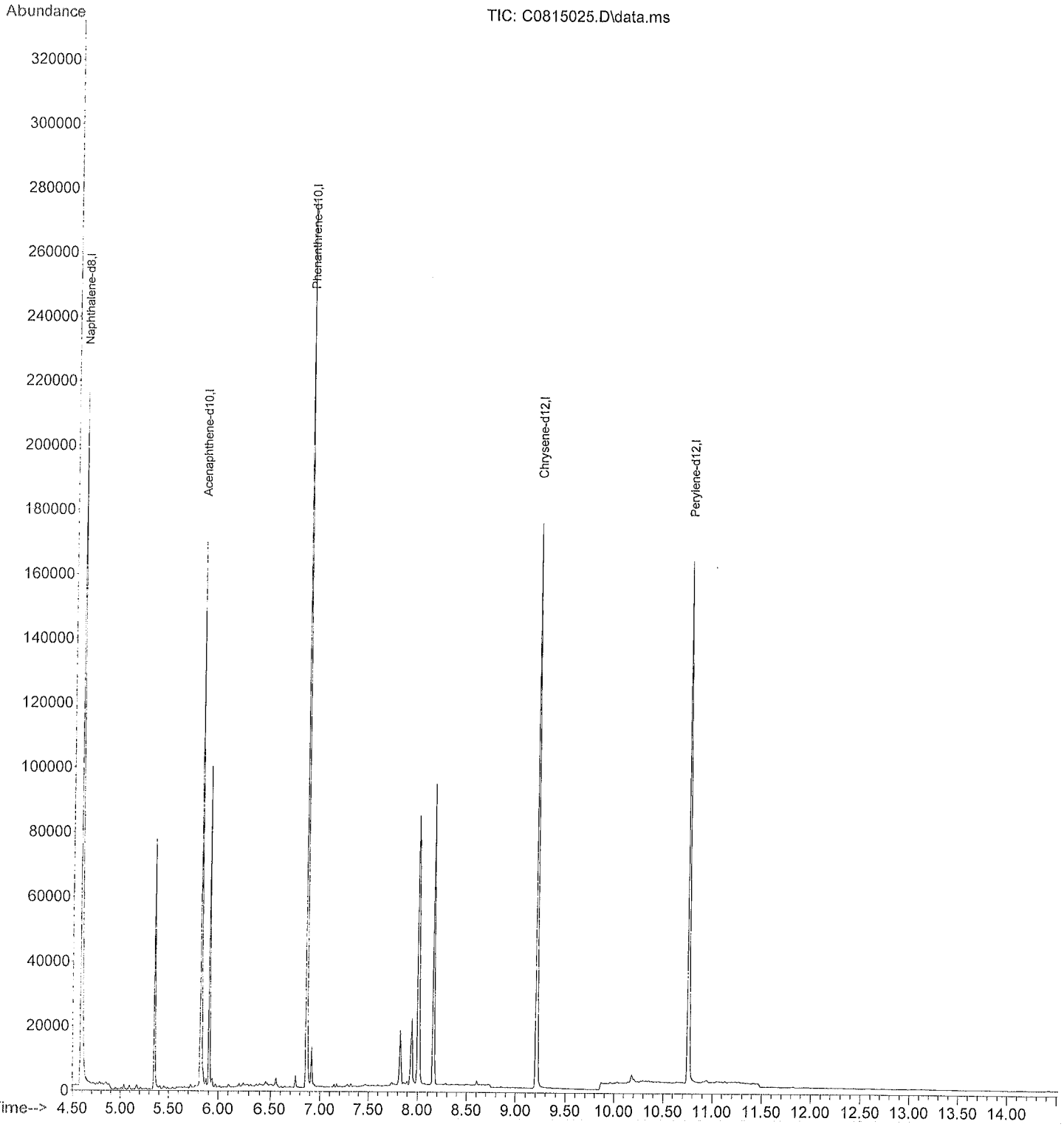
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.590	136	211879	2000.00	ppb	-0.06
5) Acenaphthene-d10	5.823	164	115890	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.862	188	209354	2000.00	ppb	-0.07
16) Chrysene-d12	9.210	240	179411	2000.00	ppb	-0.09
20) Perylene-d12	10.759	264	178109	2000.00	ppb	-0.09
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.354	172	56516	580.22	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 58.02%			
10) Pyrene-d10	7.999	212	92092	859.35	ppb	-0.08
Spiked Amount 1000.000	Range 40 - 110		Recovery = 85.94%			
17) Terphenyl-d14	8.163	244	77141	895.13	ppb	-0.08
Spiked Amount 1000.000	Range 39 - 92		Recovery = 89.51%			
Target Compounds						Qvalue

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

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815025.D
Acq On : 15 Aug 2025 9:23 pm
Operator : PB
Sample : 08-156-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 15 21:38:05 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815026.D
Acq On : 15 Aug 2025 9:45 pm
Operator : PB
Sample : 08-156-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 15 22:00:33 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

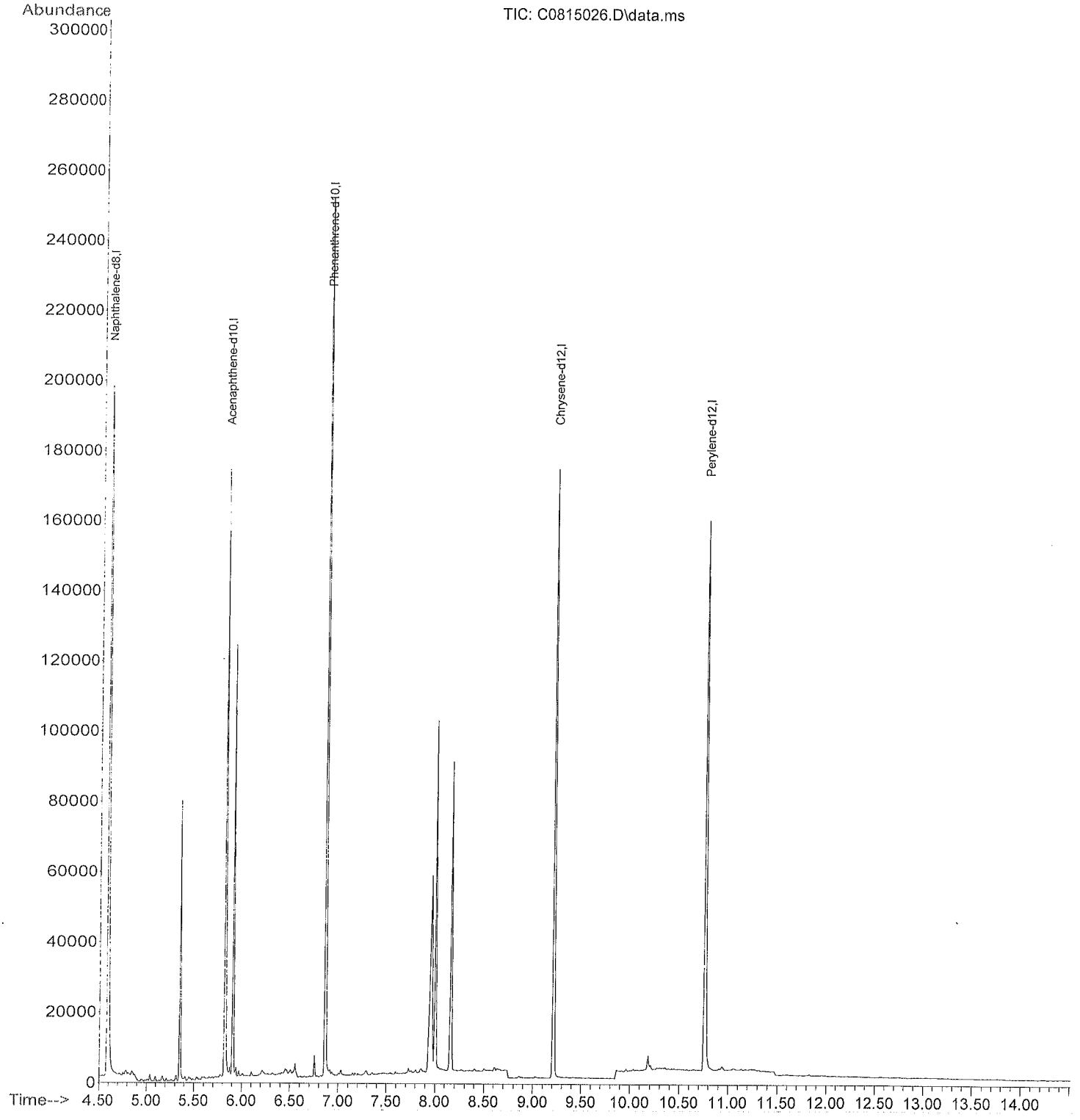
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.583	136	223298	2000.00	ppb	-0.07
5) Acenaphthene-d10	5.823	164	120922	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.862	188	217174	2000.00	ppb	-0.07
16) Chrysene-d12	9.215	240	180456	2000.00	ppb	-0.08
20) Perylene-d12	10.765	264	179584	2000.00	ppb	-0.09
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.352	172	55268	543.80	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 54.38%			
10) Pyrene-d10	7.999	212	84915	763.85	ppb	-0.08
Spiked Amount 1000.000	Range 40 - 110		Recovery = 76.39%			
17) Terphenyl-d14	8.163	244	68318	787.64	ppb	-0.08
Spiked Amount 1000.000	Range 39 - 92		Recovery = 78.76%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	9.210	228	702	Below Cal	#	50

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

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815026.D
Acq On : 15 Aug 2025 9:45 pm
Operator : PB
Sample : 08-156-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 15 22:00:33 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815027.D
Acq On : 15 Aug 2025 10:08 pm
Operator : PB
Sample : 08-156-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 15 22:23:06 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

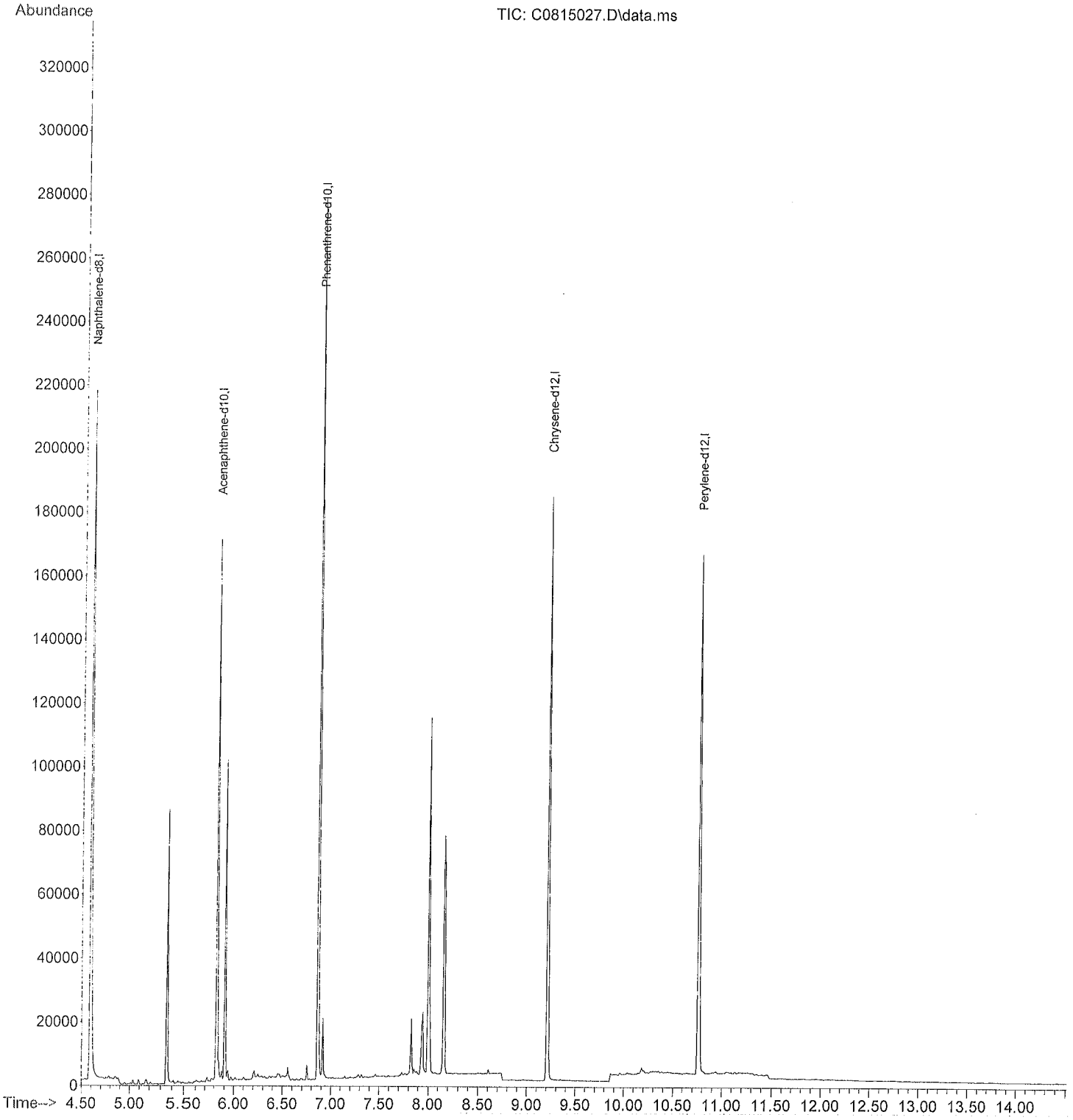
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.590	136	220287	2000.00	ppb	-0.06
5) Acenaphthene-d10	5.822	164	119154	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.861	188	214971	2000.00	ppb	-0.07
16) Chrysene-d12	9.211	240	182670	2000.00	ppb	-0.09
20) Perylene-d12	10.765	264	179932	2000.00	ppb	-0.09
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.353	172	58769	586.82	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 58.68%			
10) Pyrene-d10	8.001	212	92699	842.41	ppb	-0.08
Spiked Amount 1000.000	Range 40 - 110		Recovery = 84.24%			
17) Terphenyl-d14	8.155	244	78274	892.06	ppb	-0.08
Spiked Amount 1000.000	Range 39 - 92		Recovery = 89.21%			
Target Compounds						Qvalue

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

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815027.D
Acq On : 15 Aug 2025 10:08 pm
Operator : PB
Sample : 08-156-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 15 22:23:06 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815010.D
Acq On : 15 Aug 2025 3:42 pm
Operator : PB
Sample : MB0815W1 REX
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 15:57:09 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

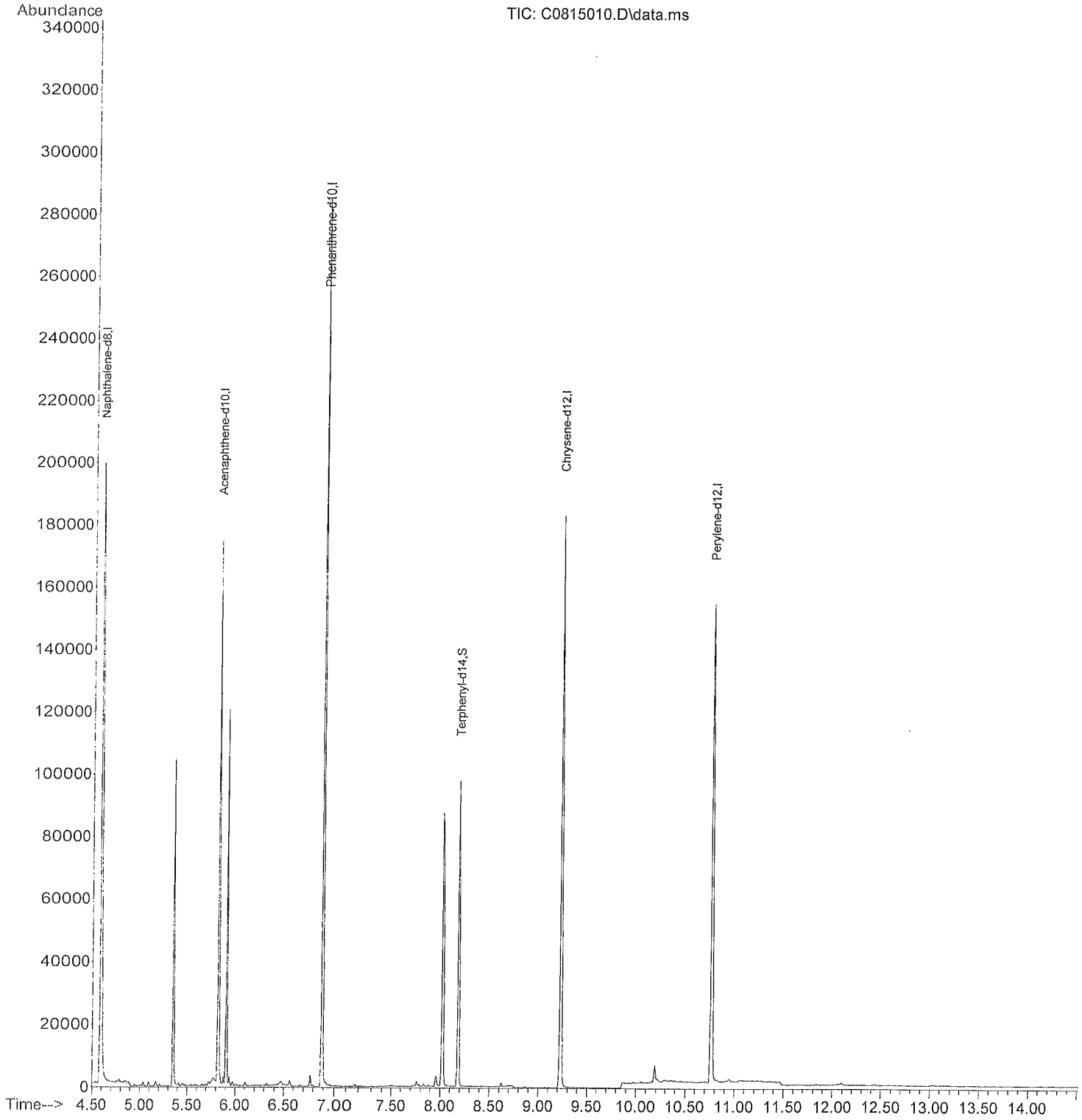
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.583	136	219291	2000.00	ppb	-0.07
5) Acenaphthene-d10	5.823	164	116958	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.885	188	211160	2000.00	ppb	-0.05
16) Chrysene-d12	9.228	240	179524	2000.00	ppb	-0.07
20) Perylene-d12	10.770	264	178964	2000.00	ppb	-0.08
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.353	172	74738	760.29	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 76.03%			
10) Pyrene-d10	8.018	212	102345	946.86	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.69%			
17) Terphenyl-d14	8.182	244	89738	1041.34	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 104.13%#			
Target Compounds						Qvalue
18) Benzo[a]anthracene	9.228	228	822	Below Cal		87

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

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815010.D
Acq On : 15 Aug 2025 3:42 pm
Operator : PB
Sample : MB0815W1 REX
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 15:57:09 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815003.D
Acq On : 15 Aug 2025 10:56 am
Operator : PB
Sample : SB0815W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:10:51 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

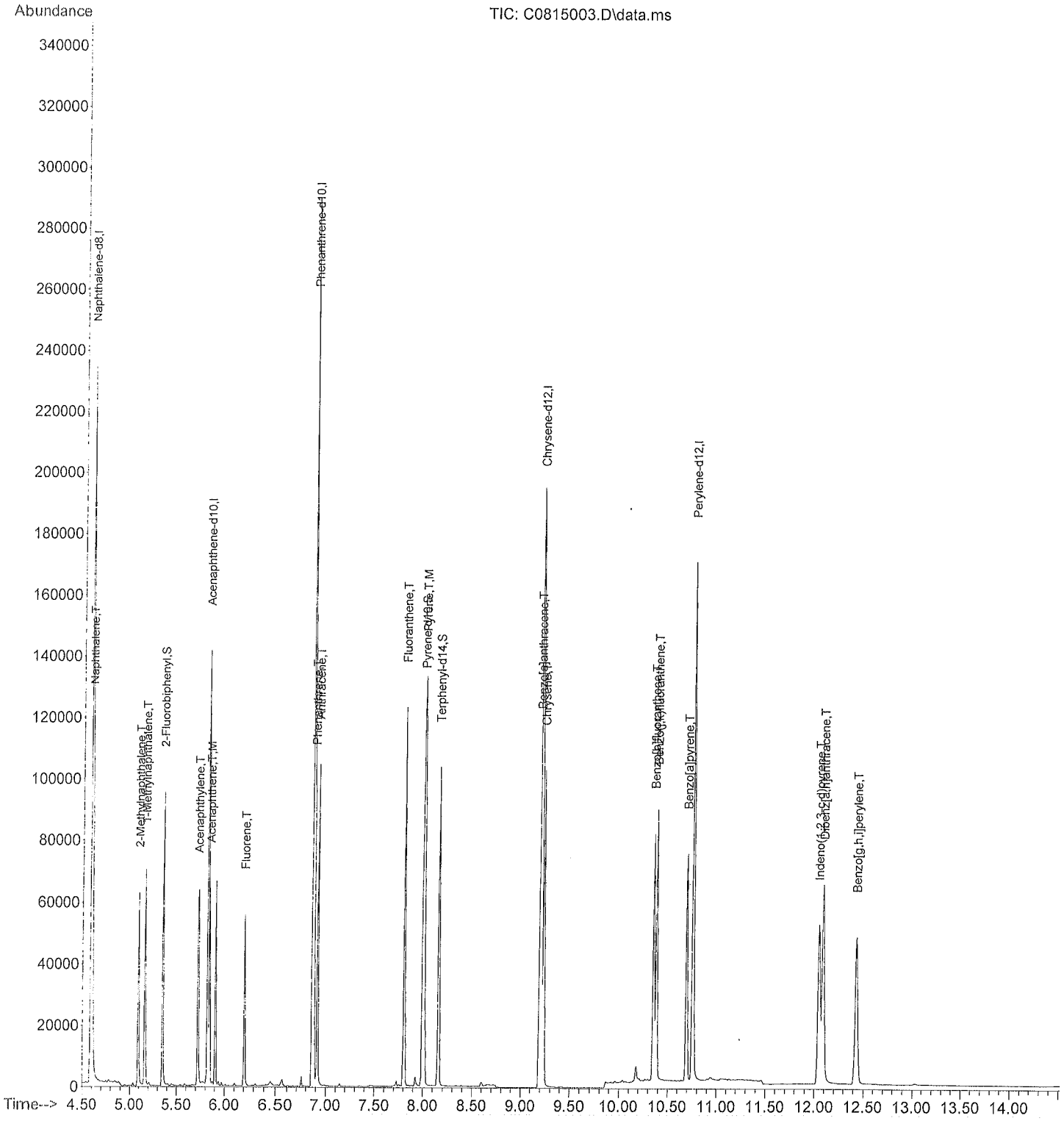
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.589	136	224531	2000.00	ppb	-0.06
5) Acenaphthene-d10	5.825	164	119876	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.862	188	216524	2000.00	ppb	-0.07
16) Chrysene-d12	9.211	240	184443	2000.00	ppb	-0.09
20) Perylene-d12	10.760	264	187517	2000.00	ppb	-0.09
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.353	172	70767	702.37	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 70.24%			
10) Pyrene-d10	8.000	212	103030	929.58	ppb	-0.08
Spiked Amount 1000.000	Range 40 - 110		Recovery = 92.96%			
17) Terphenyl-d14	8.154	244	92596	1045.87	ppb	-0.09
Spiked Amount 1000.000	Range 39 - 92		Recovery = 104.59%#			
Target Compounds						Qvalue
2) Naphthalene	4.596	128	45265	350.22	ppb	96
3) 2-Methylnaphthalene	5.091	142	26510	287.26	ppb	100
4) 1-Methylnaphthalene	5.161	142	28642	333.73	ppb	99
7) Acenaphthylene	5.717	152	54300	412.23	ppb	100
8) Acenaphthene	5.840	153	30559	360.57	ppb	100
11) Fluorene	6.202	166	38574	372.68	ppb	100
12) Phenanthrene	6.880	178	61107	411.74	ppb	96
13) Anthracene	6.915	178	62452	432.22	ppb	96
14) Fluoranthene	7.808	202	77086	473.61	ppb	93
15) Pyrene	8.010	202	77733	467.49	ppb	96
18) Benzo[a]anthracene	9.194	228	78075	512.33	ppb	95
19) Chrysene	9.234	228	72373	486.00	ppb	96
21) Benzo[b]fluoranthene	10.354	252	81124	518.18	ppb	100
22) Benzo(j,k)fluoranthene	10.383	252	72741	482.81	ppb	95
23) Benzo[a]pyrene	10.696	252	71582	505.82	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.046	276	71436	492.80	ppb	91
25) Dibenz[a,h]anthracene	12.092	278	69854	495.99	ppb	95
26) Benzo[g,h,i]perylene	12.432	276	66733	484.10	ppb	91

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

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815003.D
Acq On : 15 Aug 2025 10:56 am
Operator : PB
Sample : SB0815W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:10:51 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815004.D
Acq On : 15 Aug 2025 11:18 am
Operator : PB
Sample : SB0815W1 DUP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:35:40 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.590	136	221610	2000.00	ppb	-0.06
5) Acenaphthene-d10	5.824	164	118476	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.868	188	213437	2000.00	ppb	-0.06
16) Chrysene-d12	9.211	240	182661	2000.00	ppb	-0.09
20) Perylene-d12	10.760	264	186680	2000.00	ppb	-0.09
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.353	172	69559	698.54	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 69.85%			
10) Pyrene-d10	8.000	212	103614	948.37	ppb	-0.08
Spiked Amount 1000.000	Range 40 - 110		Recovery = 94.84%			
17) Terphenyl-d14	8.164	244	93864	1070.64	ppb	-0.08
Spiked Amount 1000.000	Range 39 - 92		Recovery = 107.06%#			
Target Compounds						Qvalue
2) Naphthalene	4.598	128	47557	372.80	ppb	96
3) 2-Methylnaphthalene	5.091	142	28571	313.68	ppb	99
4) 1-Methylnaphthalene	5.161	142	30266	357.30	ppb	99
7) Acenaphthylene	5.724	152	56743	435.87	ppb	100
8) Acenaphthene	5.839	153	32436	387.24	ppb	100
11) Fluorene	6.209	166	40562	397.56	ppb	100
12) Phenanthrene	6.880	178	62834	429.50	ppb	96
13) Anthracene	6.915	178	63745	447.55	ppb	96
14) Fluoranthene	7.817	202	78171	487.22	ppb	94
15) Pyrene	8.019	202	78338	477.94	ppb	96
18) Benzo[a]anthracene	9.199	228	78110	517.62	ppb	94
19) Chrysene	9.234	228	73319	497.16	ppb	97
21) Benzo[b]fluoranthene	10.353	252	81172	520.81	ppb	100
22) Benzo(j,k)fluoranthene	10.382	252	72594	484.00	ppb	95
23) Benzo[a]pyrene	10.696	252	72222	512.63	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.053	276	73011m	505.92	ppb	
25) Dibenz[a,h]anthracene	12.092	278	70869	505.45	ppb	95
26) Benzo[g,h,i]perylene	12.431	276	67478	491.70	ppb	91

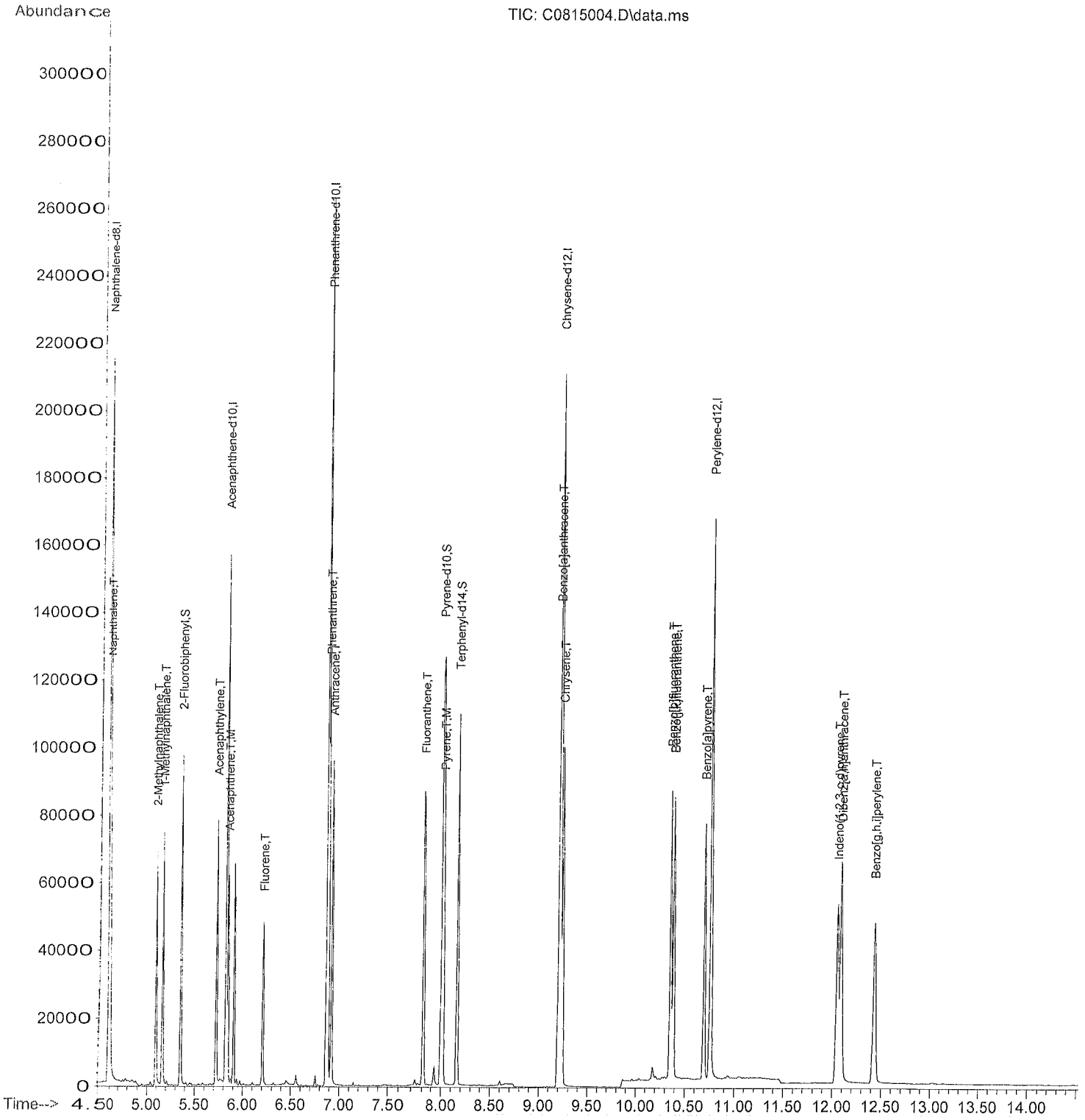
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD 9/8/25

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815004.D
Acq On : 15 Aug 2025 11:18 am
Operator : PB
Sample : SB0815W1 DUP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:35:40 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Response Factor Report Corey

Method Path : C:\msdchem\1\METHODS\
Method File : CS250801.M
Title : PAH'S BY SIMS
Last Update : Thu Aug 21 12:43:51 2025
Response Via : Initial Calibration

30

Calibration Files
10 =C0801003.D 20 =C0801004.D 50 =C0801005.D 100 =C0801007.D 200 =C0801008.D 500 =C0821004.D 1000=C0801010.D
5000=C0801011.D

		Compound	10	20	50	100	200	500	1000	5000	Avg	%RSD
1)	I	Naphthalene-d8	----------ISTD----------									
2)	T	Naphthalene	1.295	1.221	1.177	1.207	1.177	1.113	1.105	0.915	1.151	9.82
3)	T	2-Methylnaphth...	0.911	0.871	0.868	0.879	0.845	0.791	0.753	0.659	0.822	10.14
4)	T	1-Methylnaphth...	0.839	0.806	0.804	0.814	0.784	0.738	0.707	0.625	0.764	9.27
5)	I	Acenaphthene-d10	----------ISTD----------									
6)	S	2-Fluorobiphenyl	1.838	1.762	1.750	1.799	1.716	1.762	1.529	1.293	1.681	10.82
7)	T	Acenaphthylene	2.397	2.353	2.341	2.380	2.280	2.135	2.025	1.670	2.198	11.37
8)	T,M	Acenaphthene	1.487	1.488	1.504	1.505	1.464	1.397	1.328	1.139	1.414	8.98
9)	I	Phenanthrene-d10	----------ISTD----------									
10)	S	Pyrene-d10	1.215	1.047	1.064	1.093	1.040	0.993	0.923	0.816	1.024	11.57
11)	T	Fluorene	1.034	1.015	1.038	1.018	0.994	0.932	0.874	0.744	0.956	10.73
12)	T	Phenanthrene	1.603	1.457	1.549	1.421	1.379	1.307	1.224	1.027	1.371	13.50
13)	T	Anthracene	1.466	1.404	1.409	1.416	1.372	1.311	1.242	1.057	1.335	9.88
14)	T	Fluoranthene	1.706	1.598	1.639	1.588	1.539	1.454	1.364	1.139	1.503	12.09
15)	T,M	Pyrene	1.781	1.666	1.644	1.616	1.568	1.476	1.382	1.156	1.536	12.73
16)	I	Chrysene-d12	----------ISTD----------									
17)	S	Terphenyl-d14	1.361	1.149	1.039	1.078	1.047	0.989	0.942	0.816	1.053	15.12
18)	T	Benzo[a]anthra...	2.620	2.113	1.910	1.876	1.799	1.685	1.580	1.379	1.870	20.09
19)	T	Chrysene	1.795	1.703	1.664	1.730	1.649	1.590	1.509	1.278	1.615	10.01
20)	I	Perylene-d12	----------ISTD----------									
21)	T	Benzo[b]fluora...	1.884	1.803	1.773	1.695	1.708	1.665	1.500	1.332	1.670	10.61
22)	T	Benzo(j,k)fluo...	1.821	1.672	1.606	1.778	1.632	1.515	1.522	1.310	1.607	10.08
23)	T	Benzo[a]pyrene	1.672	1.598	1.552	1.598	1.538	1.474	1.407	1.235	1.509	9.09
24)	T	Indeno(1,2,3-c...	1.727	1.608	1.576	1.595	1.602	1.493	1.454	1.314	1.546	8.04
25)	T	Dibenz[a,h]ant...	1.664	1.562	1.521	1.566	1.533	1.470	1.415	1.286	1.502	7.56
26)	T	Benzo[g,h,i]pe...	1.649	1.540	1.500	1.543	1.493	1.433	1.372	1.232	1.470	8.58

(#) = Out of Range

Compound List Report Corey

Method Path : C:\msdchem\1\METHODS\
Method File : CS250801.M
Title : PAH'S BY SIMS
Last Update : Thu Aug 21 12:43:51 2025
Response Via : Initial Calibration

Total Cpnds : 26

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8	136	4.512	1.000	A	0	A	R
2	T	Naphthalene	128	4.520	1.002	A	1	A	R
3	T	2-Methylnaphthalene	142	5.017	1.112	A	1	A	R
4	T	1-Methylnaphthalene	142	5.087	1.127	A	1	A	R
5	I	Acenaphthene-d10	164	5.746	1.000	A	0	A	R
6	S	2-Fluorobiphenyl	172	5.278	0.919	A	0	A	R
7	T	Acenaphthylene	152	5.646	0.983	A	0	A	R
8	T	Acenaphthene	153	5.769	1.004	A	0	A	R
9	I	Phenanthrene-d10	188	6.804	1.000	A	0	A	R
10	S	Pyrene-d10	212	7.932	1.166	A	0	A	R
11	T	Fluorene	166	6.131	0.901	A	0	A	R
12	T	Phenanthrene	178	6.821	1.003	A	1	A	R
13	T	Anthracene	178	6.862	1.009	A	1	A	R
14	T	Fluoranthene	202	7.749	1.139	A	1	A	R
15	T	Pyrene	202	7.951	1.169	A	1	A	R
16	I	Chrysene-d12	240	9.123	1.000	A	0	A	R
17	S	Terphenyl-d14	244	8.095	0.887	L	0	A	R
18	T	Benzo[a]anthracene	228	9.112	0.999	L	1	A	R
19	T	Chrysene	228	9.146	1.003	A	1	A	R
20	I	Perylene-d12	264	10.649	1.000	A	0	A	R
21	T	Benzo[b]fluoranthene	252	10.254	0.963	A	1	A	R
22	T	Benzo(j,k)fluoranthene	252	10.277	0.965	A	1	A	R
23	T	Benzo[a]pyrene	252	10.585	0.994	A	1	A	R
24	T	Indeno(1,2,3-c,d)pyrene	276	11.885	1.116	A	1	A	R
25	T	Dibenz[a,h]anthracene	278	11.924	1.120	A	1	A	R
26	T	Benzo[g,h,i]perylene	276	12.248	1.150	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

CS250801.M Mon Sep 22 14:41:18 2025

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801003.D
Acq On : 1 Aug 2025 9:21 am
Operator : JP
Sample : 10 PPB ICAL
Misc : SV7-010-22
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 12:52:37 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

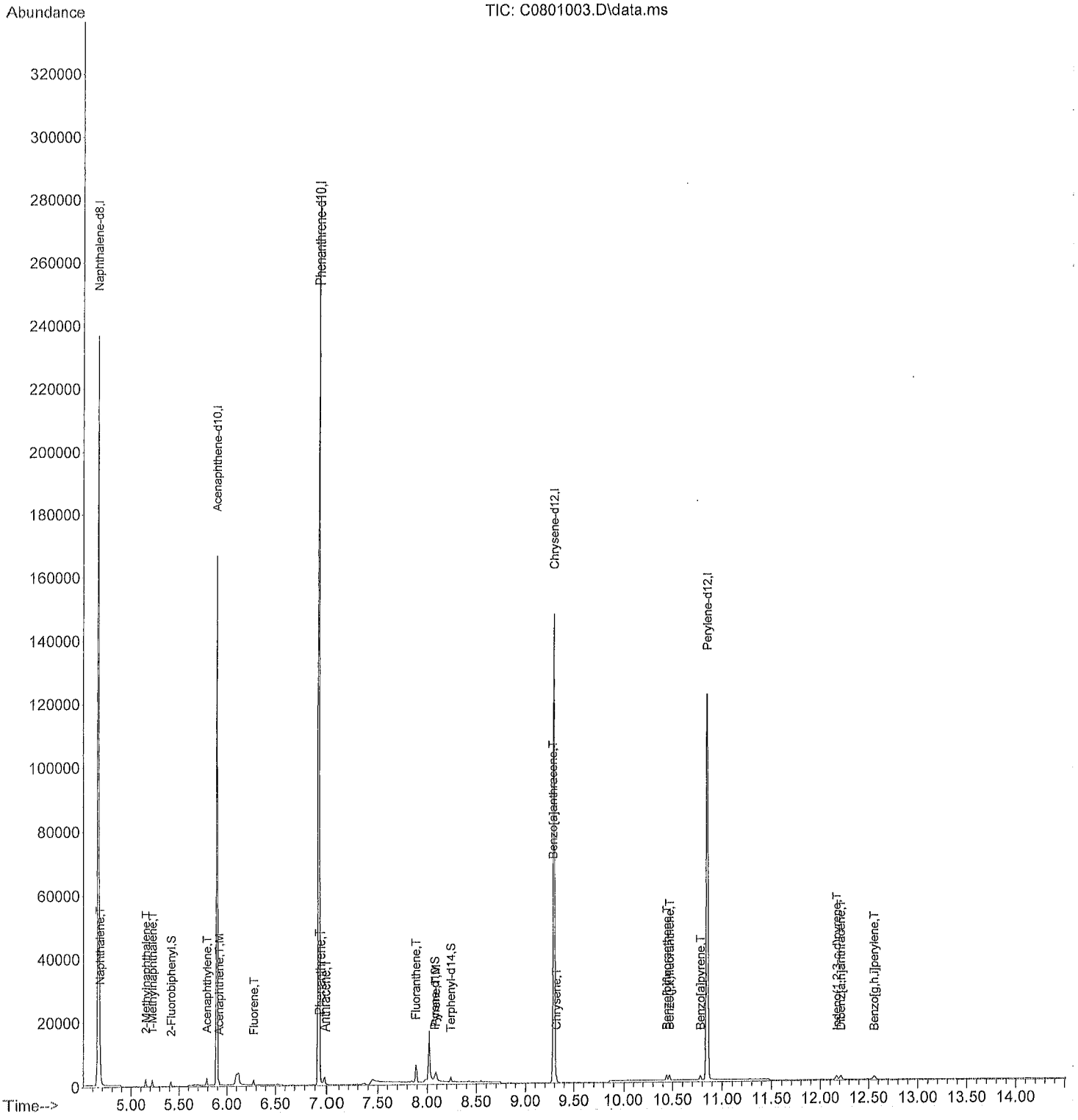
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	4.656	136	205944	2000.00	ppb		0.00
5) Acenaphthene-d10	5.891	164	112067	2000.00	ppb		0.00
9) Phenanthrene-d10	6.932	188	191287	2000.00	ppb		0.00
16) Chrysene-d12	9.298	240	147540	2000.00	ppb		0.00
20) Perylene-d12	10.852	264	149184	2000.00	ppb		0.00
System Monitoring Compounds							
6) 2-Fluorobiphenyl	5.416	172	1030	10.94	ppb		0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 1.09%#				
10) Pyrene-d10	8.077	212	1440	~~14.71~~ 11.97	ppb		0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 1.47%#				
17) Terphenyl-d14	8.240	244	1004	9.94	ppb		0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 0.99%#				
Target Compounds							Qvalue
2) Naphthalene	4.671	128	1334	11.25	ppb		99
3) 2-Methylnaphthalene	5.155	142	938	11.08	ppb		99
4) 1-Methylnaphthalene	5.224	142	864	10.98	ppb		98
7) Acenaphthylene	5.791	152	1343	10.91	ppb		100
8) Acenaphthene	5.914	153	833	10.51	ppb		100
11) Fluorene	6.277	166	983m	10.75	ppb		
12) Phenanthrene	6.943	178	1533	11.69	ppb		99
13) Anthracene	6.984	178	1402	10.98	ppb		96
14) Fluoranthene	7.885	202	1632	11.35	ppb	#	1
15) Pyrene	8.086	202	1703	11.59	ppb		74
18) Benzo[a]anthracene	9.286	228	1933	9.86	ppb		95
19) Chrysene	9.321	228	1324	11.11	ppb		96
21) Benzo[b]fluoranthene	10.440	252	1405	11.28	ppb		92
22) Benzo(j,k)fluoranthene	10.469	252	1358	11.33	ppb		89
23) Benzo[a]pyrene	10.783	252	1247	11.08	ppb		85
24) Indeno(1,2,3-c,d)pyrene	12.171	276	1305m	11.32	ppb		
25) Dibenz[a,h]anthracene	12.217	278	1241	11.08	ppb		77
26) Benzo[g,h,i]perylene	12.556	276	1230	11.22	ppb		82

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

JP 8/1/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801003.D
Acq On : 1 Aug 2025 9:21 am
Operator : JP
Sample : 10 PPB ICAL
Misc : SV7-010-22
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 12:52:37 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801004.D
Acq On : 1 Aug 2025 9:42 am
Operator : JP
Sample : 20 PPB ICAL
Misc : SV7-010-21
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 12:52:57 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

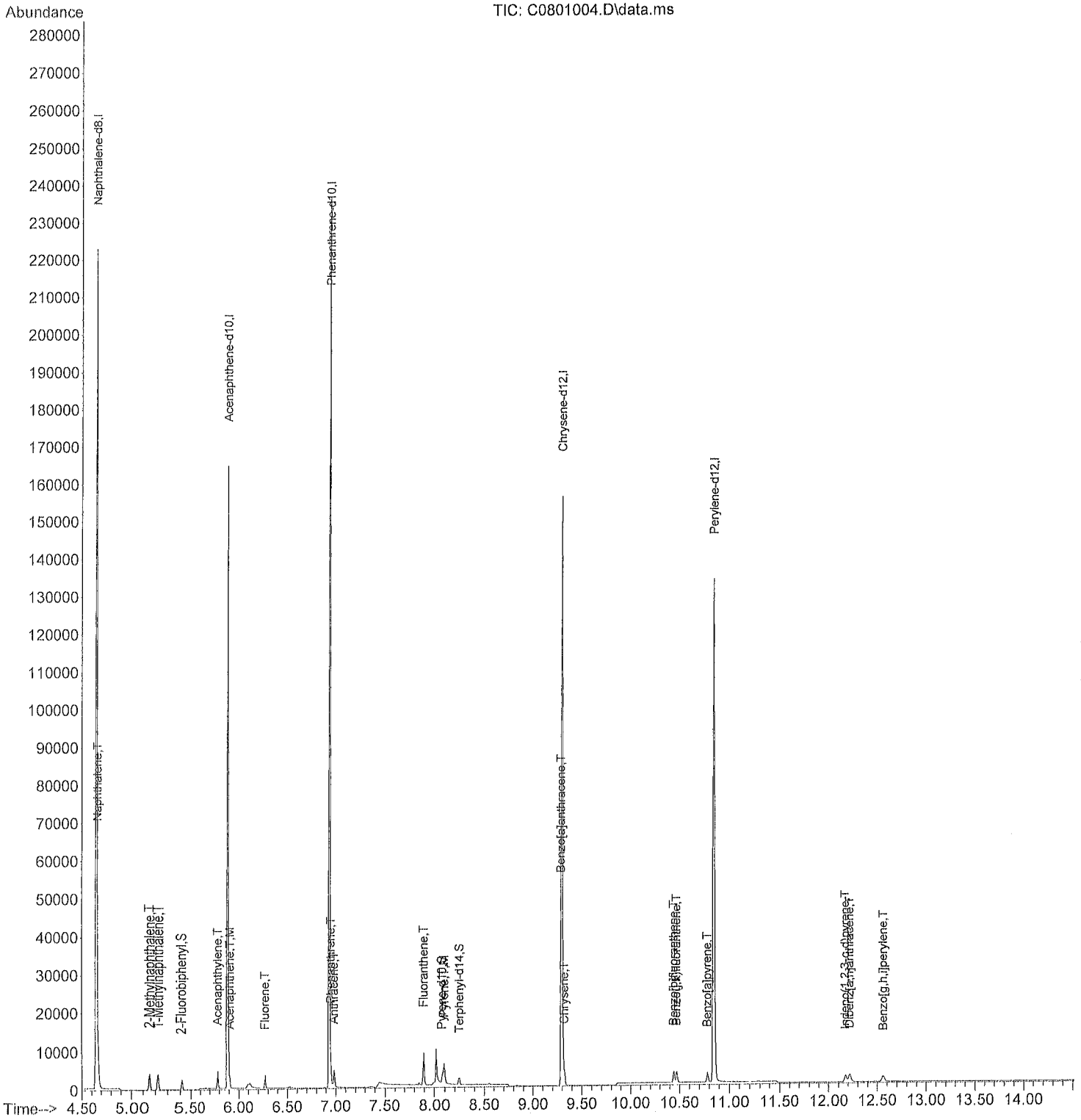
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	4.651	136	209063	2000.00	ppb		0.00
5) Acenaphthene-d10	5.885	164	111891	2000.00	ppb		0.00
9) Phenanthrene-d10	6.937	188	195010	2000.00	ppb		0.00
16) Chrysene-d12	9.298	240	150401	2000.00	ppb		0.00
20) Perylene-d12	10.852	264	151148	2000.00	ppb		0.00
System Monitoring Compounds							
6) 2-Fluorobiphenyl	5.411	172	1971	20.96	ppb		0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	2.10%#			
10) Pyrene-d10	8.076	212	2288	22.92	ppb		0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	2.29%#			
17) Terphenyl-d14	8.249	244	1728	19.74	ppb		0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery =	1.97%#			
Target Compounds							Qvalue
2) Naphthalene	4.659	128	2552	21.21	ppb		99
3) 2-Methylnaphthalene	5.156	142	1821	21.19	ppb		99
4) 1-Methylnaphthalene	5.226	142	1686	21.10	ppb		98
7) Acenaphthylene	5.784	152	2633	21.42	ppb		100
8) Acenaphthene	5.908	153	1665	21.05	ppb		100
11) Fluorene	6.270	166	2105	22.58	ppb		100
12) Phenanthrene	6.948	178	2841	21.25	ppb		99
13) Anthracene	6.983	178	2738	21.04	ppb		97
14) Fluoranthene	7.894	202	3117	21.26	ppb	#	1
15) Pyrene	8.095	202	3249	21.70	ppb		88
18) Benzo[a]anthracene	9.287	228	3178	19.70	ppb		100
19) Chrysene	9.322	228	2562	21.10	ppb		98
21) Benzo[b]fluoranthene	10.439	252	2725	21.59	ppb		95
22) Benzo(j,k)fluoranthene	10.468	252	2527	20.81	ppb		89
23) Benzo[a]pyrene	10.782	252	2416	21.18	ppb		96
24) Indeno(1,2,3-c,d)pyrene	12.170	276	2431m	20.81	ppb		
25) Dibenz[a,h]anthracene	12.216	278	2361	20.80	ppb		83
26) Benzo[g,h,i]perylene	12.563	276	2327	20.94	ppb		86

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

JP 8/1/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801004.D
Acq On : 1 Aug 2025 9:42 am
Operator : JP
Sample : 20 PPB ICAL
Misc : SV7-010-21
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 12:52:57 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801005.D
Acq On : 1 Aug 2025 10:03 am
Operator : JP
Sample : 50 PPB ICAL
Misc : SV7-010-20
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 12:53:14 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

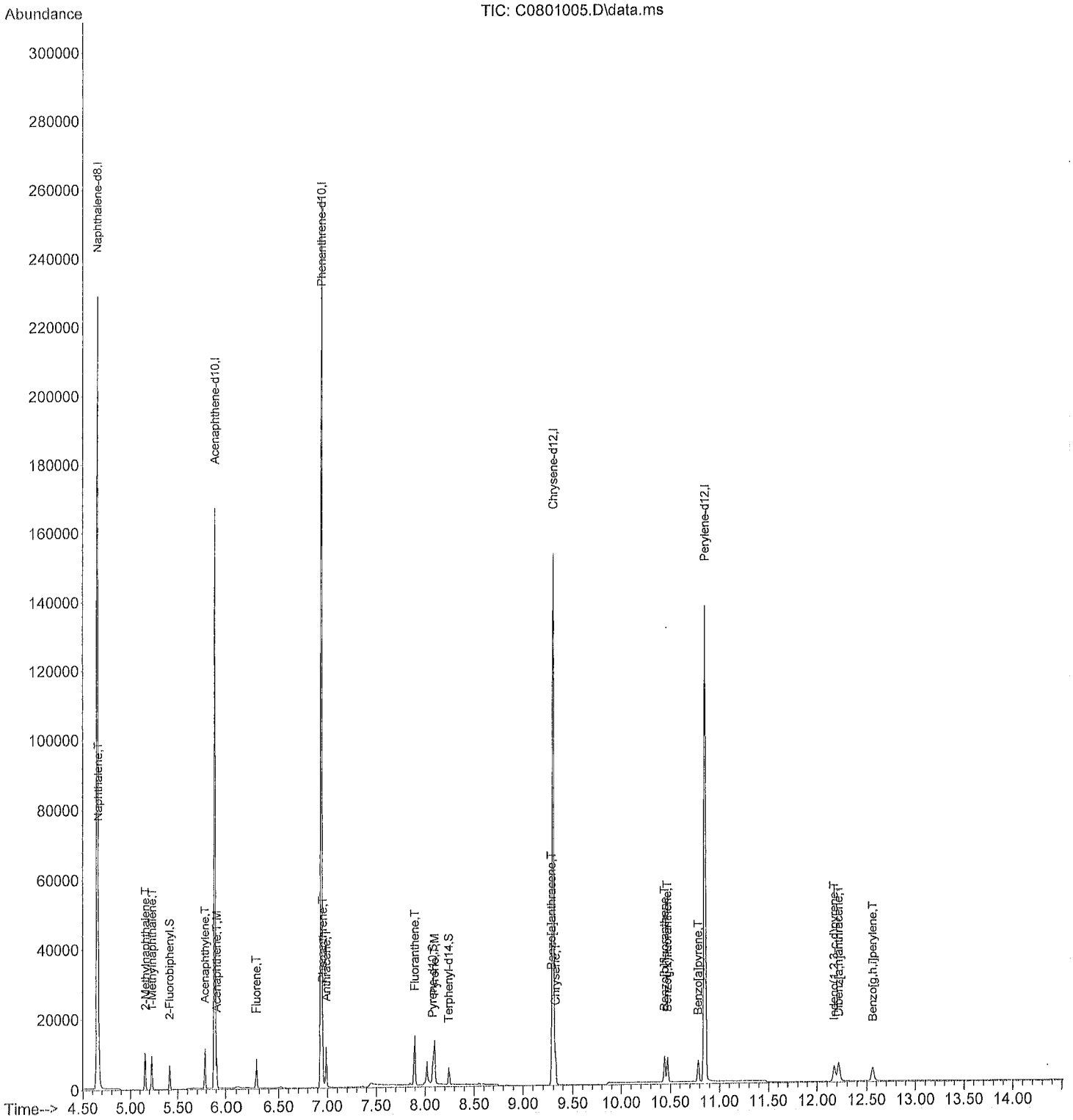
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.651	136	215638	2000.00	ppb	0.00
5) Acenaphthene-d10	5.884	164	115556	2000.00	ppb	0.00
9) Phenanthrene-d10	6.931	188	202604	2000.00	ppb	0.00
16) Chrysene-d12	9.298	240	154819	2000.00	ppb	0.00
20) Perylene-d12	10.852	264	156715	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.412	172	5056	52.06	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	5.21%#		
10) Pyrene-d10	8.076	212	5388	51.95	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	5.20%#		
17) Terphenyl-d14	8.240	244	4022	50.05	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	5.00%#		
Target Compounds						Qvalue
2) Naphthalene	4.659	128	6347	51.13	ppb	98
3) 2-Methylnaphthalene	5.157	142	4678	52.78	ppb	100
4) 1-Methylnaphthalene	5.226	142	4332	52.56	ppb	99
7) Acenaphthylene	5.784	152	6762	53.25	ppb	100
8) Acenaphthene	5.908	153	4346	53.20	ppb	100
11) Fluorene	6.270	166	5163m	53.31	ppb	
12) Phenanthrene	6.949	178	7846	56.50	ppb	97
13) Anthracene	6.984	178	7135	52.77	ppb	98
14) Fluoranthene	7.894	202	8300	54.50	ppb #	41
15) Pyrene	8.096	202	8325	53.51	ppb	94
18) Benzo[a]anthracene	9.281	228	7391	52.29	ppb	97
19) Chrysene	9.322	228	6442	51.54	ppb	96
21) Benzo[b]fluoranthene	10.440	252	6946	53.09	ppb	97
22) Benzo(j,k)fluoranthene	10.469	252	6291	49.96	ppb	92
23) Benzo[a]pyrene	10.782	252	6082	51.42	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.170	276	6157m	50.82	ppb	
25) Dibenz[a,h]anthracene	12.217	278	5960	50.64	ppb	89
26) Benzo[g,h,i]perylene	12.564	276	5878	51.02	ppb	86

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

JP 8/1/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801005.D
Acq On : 1 Aug 2025 10:03 am
Operator : JP
Sample : 50 PPB ICAL
Misc : SV7-010-20
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 12:53:14 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : CO801007.D
Acq On : 1 Aug 2025 10:48 am
Operator : JP
Sample : 100 PPB ICAL
Misc : SV7-010-19
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 12:53:31 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

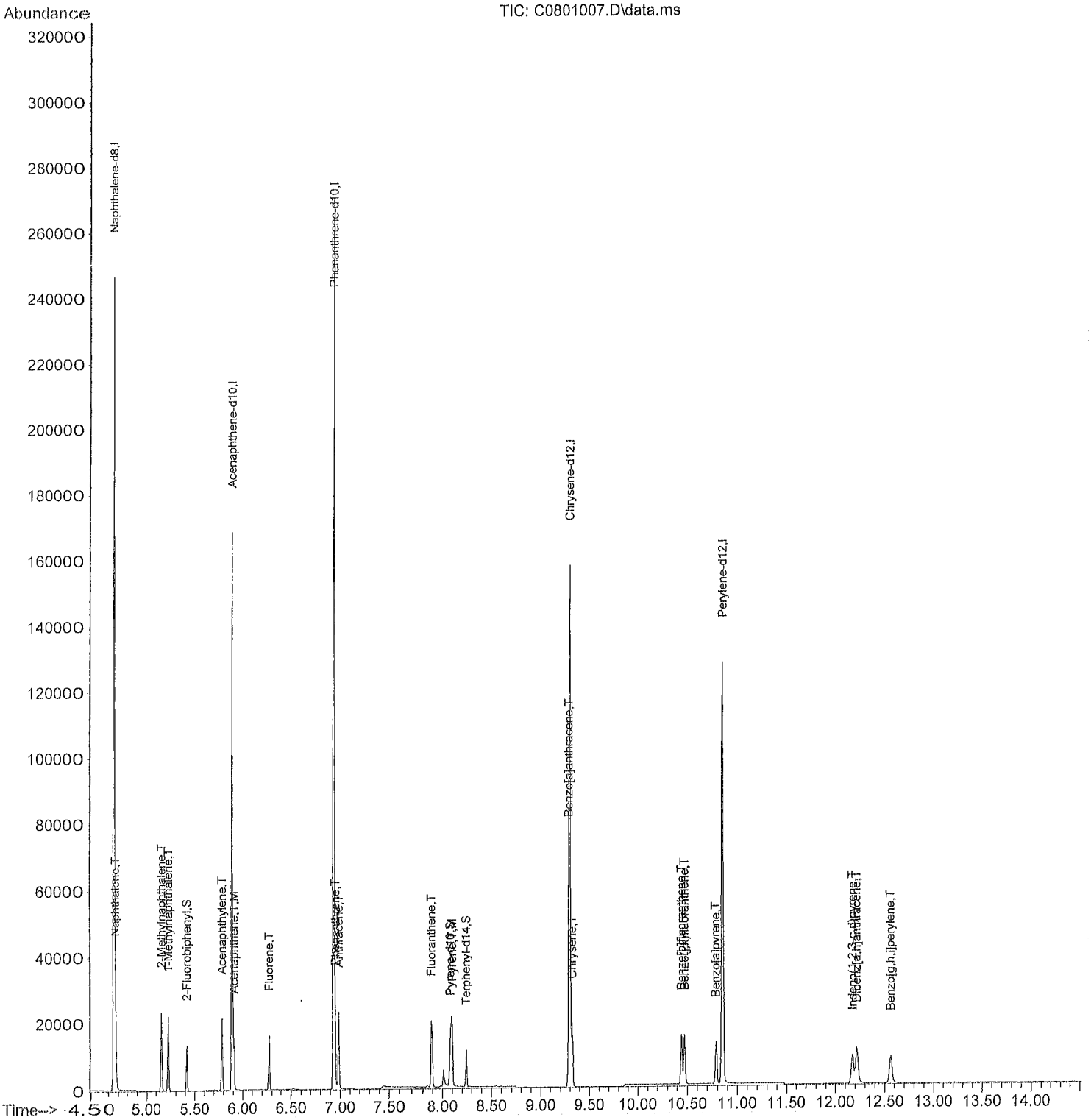
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.650	136	212537	2000.00	ppb	0.00
5) Acenaphthene-d10	5.886	164	113920	2000.00	ppb	0.00
9) Phenanthrene-d10	6.932	188	200351	2000.00	ppb	0.00
16) Chrysene-d12	9.298	240	153207	2000.00	ppb	0.00
20) Perylene-d12	10.852	264	155491	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.416	172	10247	107.02	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	10.70%#		
10) Pyrene-d10	8.077	212	10953	106.80	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	10.68%#		
17) Terphenyl-d14	8.240	244	8259	108.47	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	10.85%#		
Target Compounds						Qvalue
2) Naphthalene	4.666	128	12826	104.84	ppb	99
3) 2-Methylnaphthalene	5.155	142	9342	106.94	ppb	100
4) 1-Methylnaphthalene	5.225	142	8646	106.43	ppb	100
7) Acenaphthylene	5.785	152	13559	108.32	ppb	100
8) Acenaphthene	5.909	153	8571	106.42	ppb	100
11) Fluorene	6.271	166	10194	106.44	ppb	100
12) Phenanthrene	6.949	178	14239	103.69	ppb	97
13) Anthracene	6.984	178	14184	106.09	ppb	98
14) Fluoranthene	7.885	202	15907	105.62	ppb	77
15) Pyrene	8.096	202	16184	105.19	ppb	97
18) Benzo[a]anthracene	9.286	228	14374	108.74	ppb	95
19) Chrysene	9.321	228	13253	107.14	ppb	98
21) Benzo[b]fluoranthene	10.440	252	13179	101.52	ppb	95
22) Benzo(j,k)fluoranthene	10.469	252	13826	110.67	ppb	96
23) Benzo[a]pyrene	10.783	252	12424	105.87	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.177	276	12286m	102.21	ppb	
25) Dibenz[a,h]anthracene	12.215	278	12174	104.24	ppb	89
26) Benzo[g,h,i]perylene	12.562	276	12000	104.98	ppb	87

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

JP 8/1/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801007.D
Acq On : 1 Aug 2025 10:48 am
Operator : JP
Sample : 100 PPB ICAL
Misc : SV7-010-19
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 12:53:31 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801008.D
Acq On : 1 Aug 2025 11:10 am
Operator : JP
Sample : 200 PPB ICAL
Misc : SV7-010-18
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 12:53:41 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

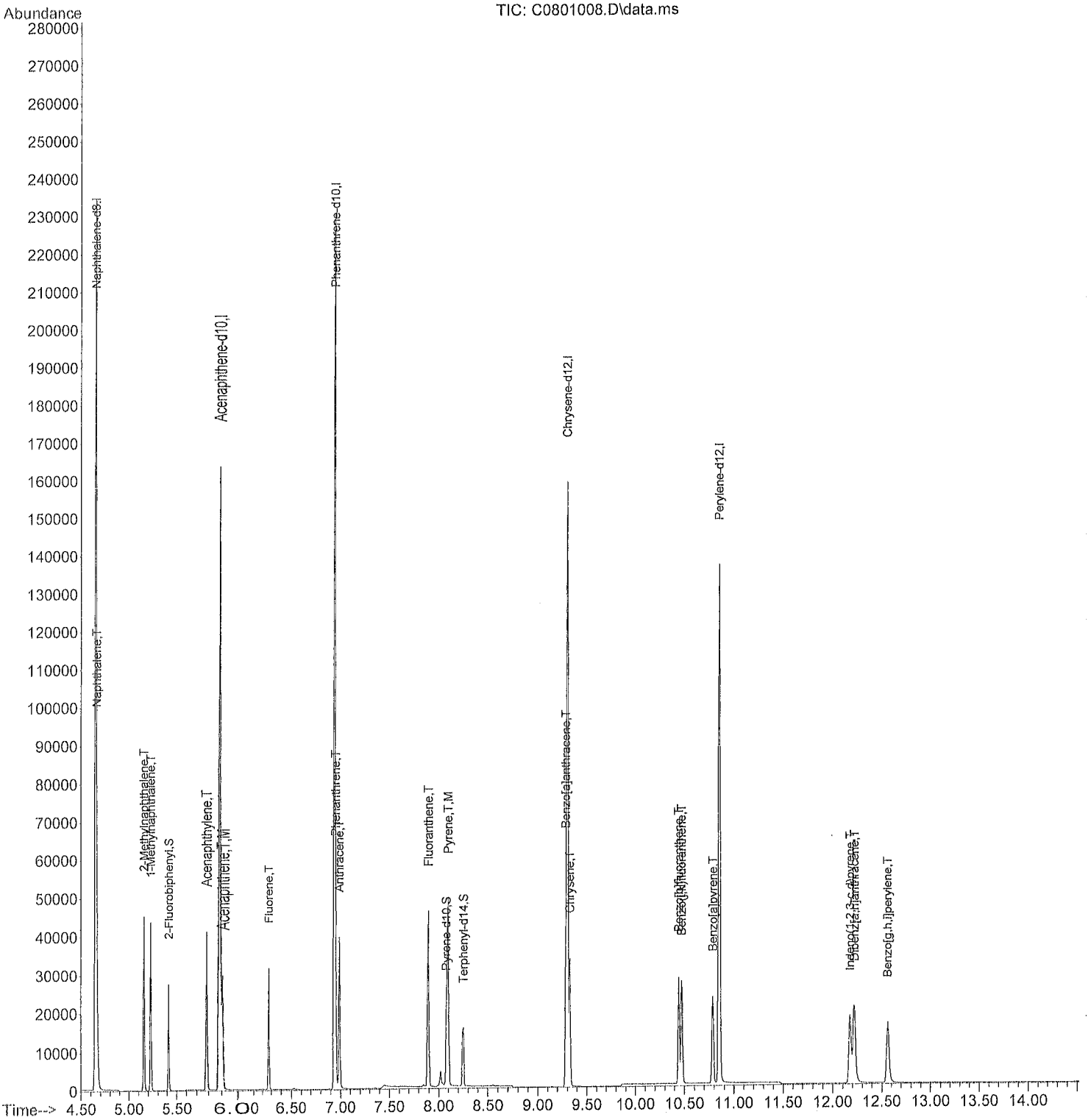
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.651	136	212531	2000.00	ppb	0.00
5) Acenaphthene-d10	5.886	164	113565	2000.00	ppb	0.00
9) Phenanthrene-d10	6.938	188	198836	2000.00	ppb	0.00
16) Chrysene-d12	9.297	240	153360	2000.00	ppb	0.00
20) Perylene-d12	10.853	264	155737	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.416	172	19485	204.14	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	20.41%#		
10) Pyrene-d10	8.077	212	20677	203.15	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	20.32%#		
17) Terphenyl-d14	8.250	244	16051	214.64	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery =	21.46%#		
Target Compounds						Qvalue
2) Naphthalene	4.659	128	25010	204.43	ppb	99
3) 2-Methylnaphthalene	5.155	142	17954	205.53	ppb	100
4) 1-Methylnaphthalene	5.225	142	16653	204.99	ppb	100
7) Acenaphthylene	5.786	152	25897	207.53	ppb	100
8) Acenaphthene	5.909	153	16624	207.05	ppb	100
11) Fluorene	6.271	166	19759	207.88	ppb	100
12) Phenanthrene	6.949	178	27419	201.18	ppb	96
13) Anthracene	6.984	178	27289	205.66	ppb	96
14) Fluoranthene	7.894	202	30593	204.68	ppb	88
15) Pyrene	8.096	202	31178	204.18	ppb	96
18) Benzo[a]anthracene	9.286	228	27586	214.15	ppb	96
19) Chrysene	9.326	228	25291	204.26	ppb	95
21) Benzo[b]fluoranthene	10.440	252	26596	204.55	ppb	98
22) Benzo(j,k)fluoranthene	10.469	252	25416	203.12	ppb	94
23) Benzo[a]pyrene	10.789	252	23953	203.80	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.176	276	24949	207.23	ppb	91
25) Dibenz[a,h]anthracene	12.223	278	23873	204.10	ppb	89
26) Benzo[g,h,i]perylene	12.562	276	23244	203.03	ppb	86

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

JD 8/1/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801008.D
Acq On : 1 Aug 2025 11:10 am
Operator : JP
Sample : 200 PPB ICAL
Misc : SV7-010-18
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 12:53:41 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801009.D
Acq On : 1 Aug 2025 11:31 am
Operator : JP
Sample : 500 PPB ICAL
Misc : SV7-010-17
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 12:51:33 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.651	136	209840	2000.00	ppb	0.00
5) Acenaphthene-d10	5.885	164	110998	2000.00	ppb	0.00
9) Phenanthrene-d10	6.931	188	195302	2000.00	ppb	0.00
16) Chrysene-d12	9.298	240	151665	2000.00	ppb	0.00
20) Perylene-d12	10.852	264	155082	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.412	172	48882	523.96	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 52.40%			
10) Pyrene-d10	8.076	212	48467	484.81	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 48.48%			
17) Terphenyl-d14	8.240	244	37516	513.14	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 51.31%			
Target Compounds						Qvalue
2) Naphthalene	4.659	128	58399	483.47	ppb	98
3) 2-Methylnaphthalene	5.156	142	41510	481.29	ppb	100
4) 1-Methylnaphthalene	5.226	142	38717	482.70	ppb	100
7) Acenaphthylene	5.785	152	59247	485.76	ppb	100
8) Acenaphthene	5.908	153	38764	493.97	ppb	100
11) Fluorene	6.270	166	45503	487.40	ppb	100
12) Phenanthrene	6.949	178	63829	476.81	ppb	95
13) Anthracene	6.984	178	64025	491.26	ppb	96
14) Fluoranthene	7.894	202	71008	483.67	ppb	92
15) Pyrene	8.096	202	72070	480.53	ppb	95
18) Benzo[a]anthracene	9.281	228	63888	509.81	ppb	94
19) Chrysene	9.322	228	60286	492.33	ppb	95
21) Benzo[b]fluoranthene	10.440	252	64548	498.53	ppb	97
22) Benzo(j,k)fluoranthene	10.469	252	58718	471.25	ppb	93
23) Benzo[a]pyrene	10.782	252	57153	488.33	ppb	95
24) Indeno(1,2,3-c,d)pyrene	12.178	276	57897	482.93	ppb	86
25) Dibenz[a,h]anthracene	12.217	278	56994	489.32	ppb	88
26) Benzo[g,h,i]perylene	12.564	276	55554	487.30	ppb	85

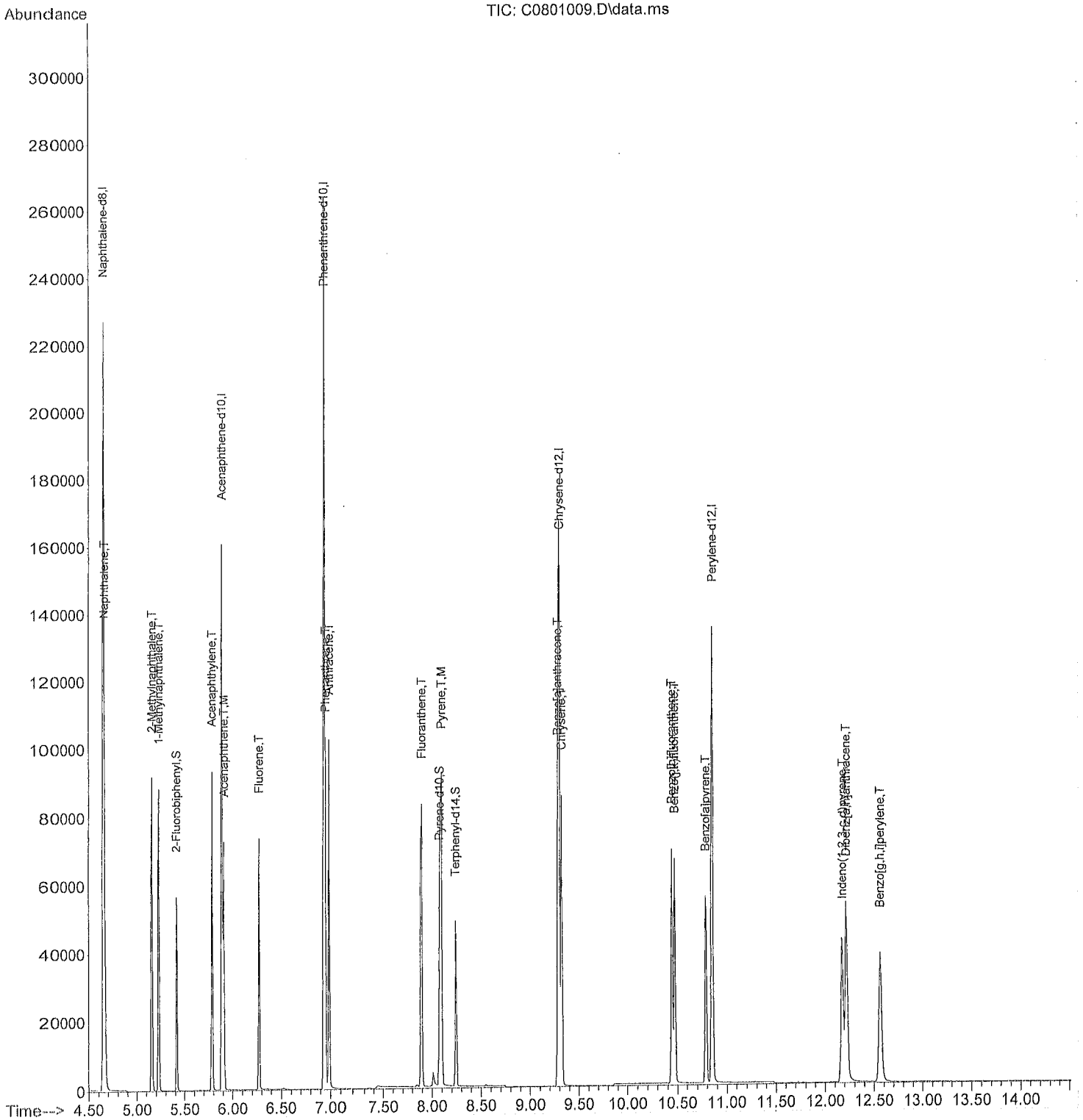
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/1/25

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801009.D
Acq On : 1 Aug 2025 11:31 am
Operator : JP
Sample : 500 PPB ICAL
Misc : SV7-010-17
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 12:51:33 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801010.D
Acq On : 1 Aug 2025 11:53 am
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV7-010-16
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 12:54:06 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

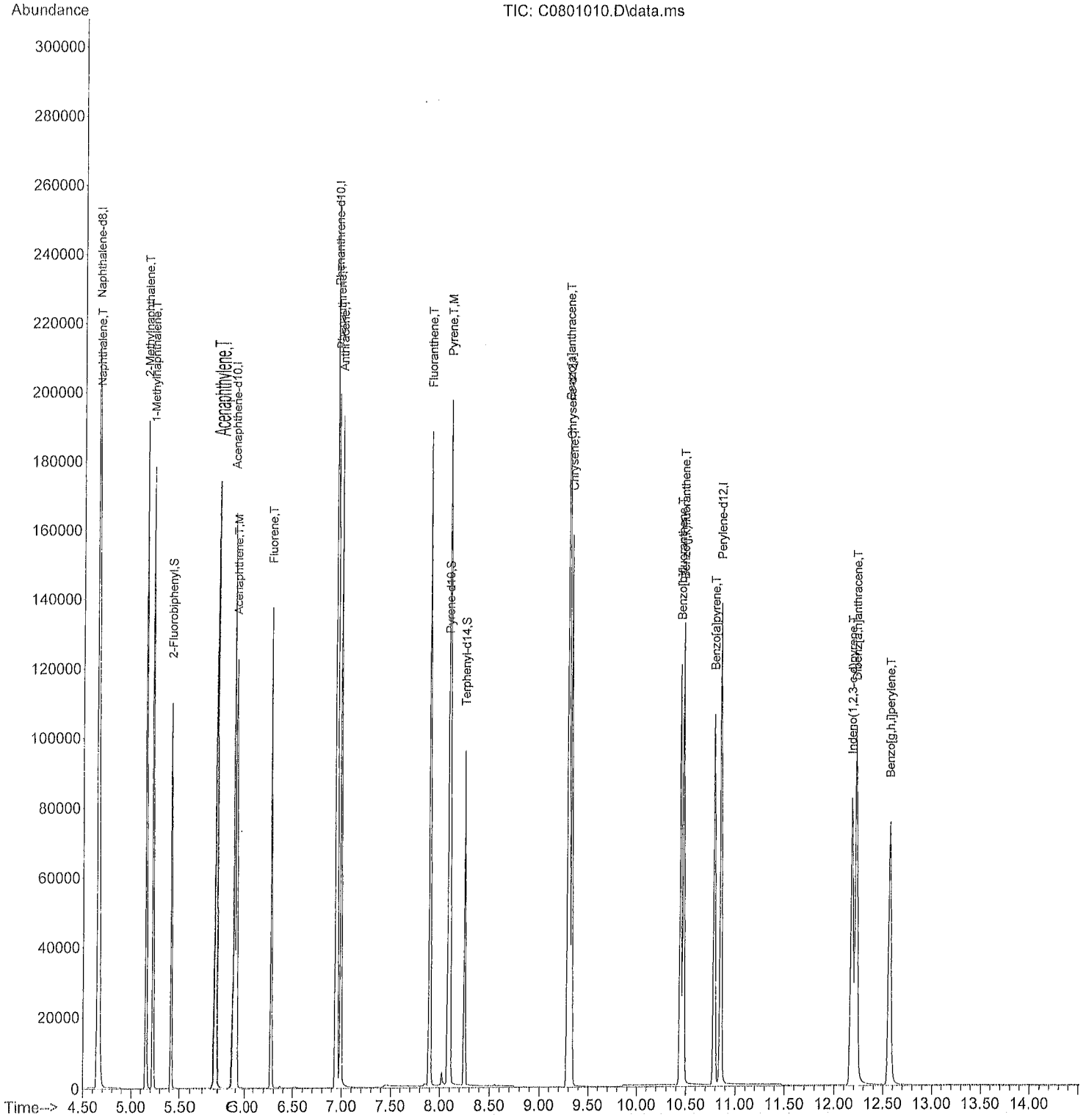
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.652	136	211136	2000.00	ppb	0.00
5) Acenaphthene-d10	5.886	164	112100	2000.00	ppb	0.00
9) Phenanthrene-d10	6.938	188	197031	2000.00	ppb	0.00
16) Chrysene-d12	9.304	240	152744	2000.00	ppb	0.00
20) Perylene-d12	10.853	264	154997	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.417	172	85692	909.50	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 90.95%#			
10) Pyrene-d10	8.087	212	90963	901.90	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 90.19%			
17) Terphenyl-d14	8.250	244	71952	981.09	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 98.11%#			
Target Compounds						Qvalue
2) Naphthalene	4.660	128	116601	959.38	ppb	99
3) 2-Methylnaphthalene	5.156	142	79466	915.73	ppb	100
4) 1-Methylnaphthalene	5.225	142	74591	924.26	ppb	100
7) Acenaphthylene	5.786	152	113499	921.43	ppb	100
8) Acenaphthene	5.909	153	74462	939.54	ppb	100
11) Fluorene	6.271	166	86087	914.01	ppb	100
12) Phenanthrene	6.955	178	120576	892.82	ppb	93
13) Anthracene	6.990	178	122320	930.31	ppb	94
14) Fluoranthene	7.895	202	134345	907.06	ppb	93
15) Pyrene	8.097	202	136107	899.53	ppb	94
18) Benzo[a]anthracene	9.292	228	120687	961.66	ppb	92
19) Chrysene	9.327	228	115220	934.30	ppb	95
21) Benzo[b]fluoranthene	10.447	252	116210	898.03	ppb	93
22) Benzo(j,k)fluoranthene	10.476	252	117978	947.36	ppb	95
23) Benzo[a]pyrene	10.789	252	109041	932.18	ppb	94
24) Indeno(1,2,3-c,d)pyrene	12.177	276	112704	940.60	ppb	85
25) Dibenz[a,h]anthracene	12.223	278	109672	942.10	ppb	87
26) Benzo[g,h,i]perylene	12.570	276	106363	933.48	ppb	84

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

JD 8/1/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801010.D
Acq On : 1 Aug 2025 11:53 am
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV7-0 10-16
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 12:54:06 2025
Quant Method : C: \msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801011.D
Acq On : 1 Aug 2025 12:14 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV7-010-15
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 12:54:27 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.651	136	211155	2000.00	ppb	0.00
5) Acenaphthene-d10	5.884	164	114230	2000.00	ppb	0.00
9) Phenanthrene-d10	6.931	188	200565	2000.00	ppb	0.00
16) Chrysene-d12	9.304	240	159492	2000.00	ppb	0.00
20) Perylene-d12	10.852	264	162506	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.417	172	369197	3845.44	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 384.54%#			
10) Pyrene-d10	8.086	212	408924	3983.07	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 398.31%#			
17) Terphenyl-d14	8.240	244	325377	4263.22	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 426.32%#			
Target Compounds						Qvalue
2) Naphthalene	4.666	128	483122	3974.74	ppb	93
3) 2-Methylnaphthalene	5.156	142	347664	4005.94	ppb	97
4) 1-Methylnaphthalene	5.226	142	329897	4087.38	ppb	98
7) Acenaphthylene	5.784	152	476804	3798.69	ppb	100
8) Acenaphthene	5.907	153	325211	4026.91	ppb	100
11) Fluorene	6.269	166	373211	3892.67	ppb	100
12) Phenanthrene	6.949	178	514737	3744.27	ppb	88
13) Anthracene	6.983	178	530121	3960.84	ppb	89
14) Fluoranthene	7.894	202	571352	3789.63	ppb	90
15) Pyrene	8.095	202	579442	3762.06	ppb	86
18) Benzo[a]anthracene	9.287	228	549879	4216.98	ppb	89
19) Chrysene	9.327	228	509393	3955.84	ppb	88
21) Benzo[b]fluoranthene	10.452	252	540986	3987.38	ppb	90
22) Benzo(j,k)fluoranthene	10.481	252	532182	4075.96	ppb	91
23) Benzo[a]pyrene	10.794	252	501795	4091.59	ppb	90
24) Indeno(1,2,3-c,d)pyrene	12.193	276	534668m	4256.03	ppb	
25) Dibenz[a,h]anthracene	12.239	278	522482	4280.80	ppb	84
26) Benzo[g,h,i]perylene	12.594	276	500449	4189.18	ppb	81

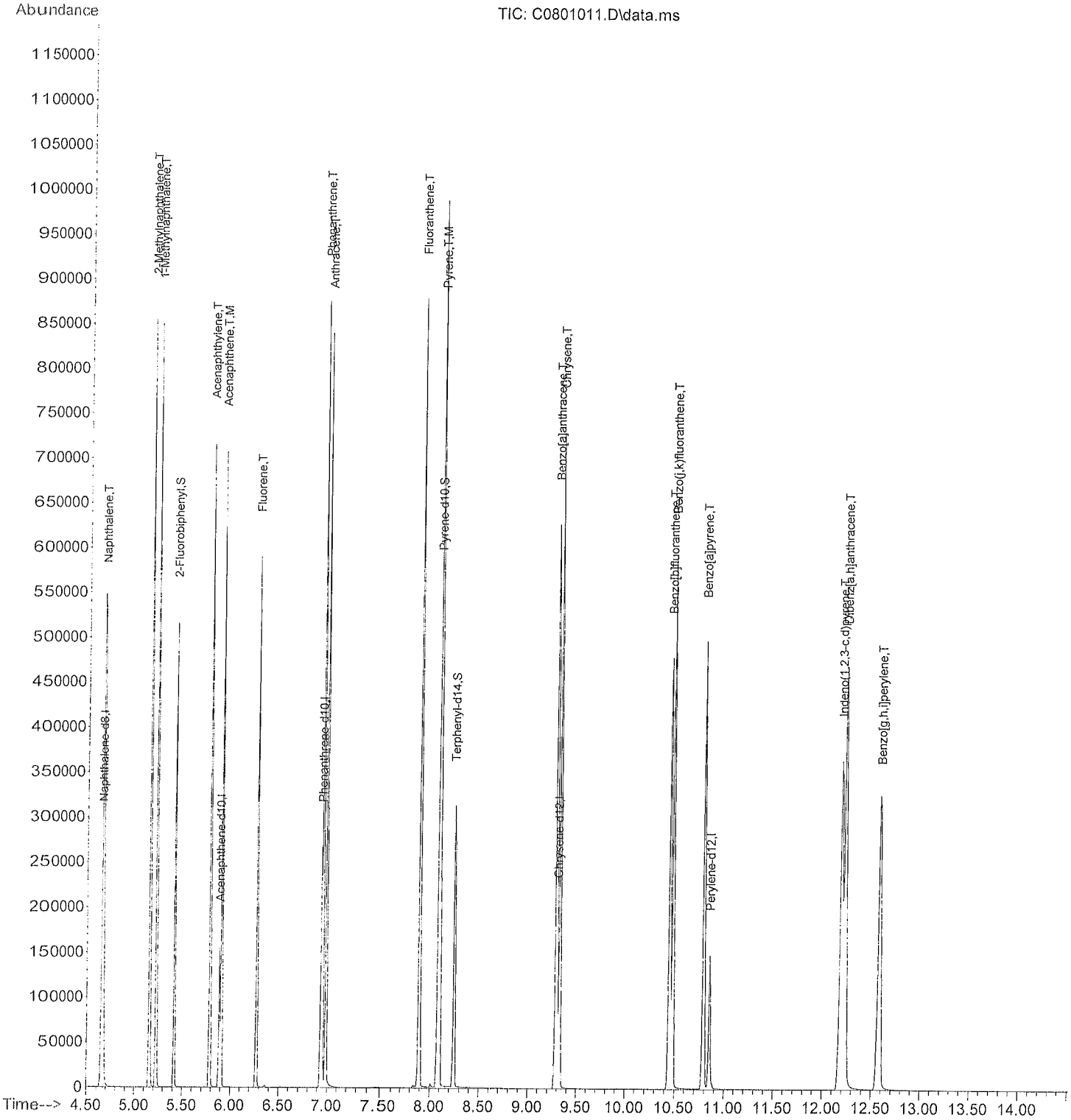
(#) = qualifier out of range (m) = manual integration (+) = signals summed

UP 9/22/25

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801011.D
Acq On : 1 Aug 2025 12:14 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV7-010-15
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 12:54:27 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801012.D
Acq On : 1 Aug 2025 12:35 pm
Operator : JP
Sample : ICV
Misc : SV7-011-14
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 12:54:48 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
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	103	0.00
2	T	Naphthalene	500.000	476.503	4.7	101	0.00
3	T	2-Methylnaphthalene	500.000	477.766	4.4	102	0.00
4	T	1-Methylnaphthalene	500.000	473.582	5.3	101	0.00
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	102	0.00
6	S	2-Fluorobiphenyl	500.000	512.369	-2.5	100	0.00
7	T	Acenaphthylene	500.000	505.439	-1.1	106	0.00
8	T,M	Acenaphthene	500.000	505.211	-1.0	104	0.00
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	103	0.00
10	S	Pyrene-d10	500.000	459.554	8.1	98	0.00
11	T	Fluorene	500.000	482.951	3.4	102	0.00
12	T	Phenanthrene	500.000	468.650	6.3	101	0.00
13	T	Anthracene	500.000	456.452	8.7	96	0.00
14	T	Fluoranthene	500.000	484.124	3.2	103	0.00
15	T,M	Pyrene	500.000	468.759	6.2	100	0.00
16	I	Chrysene-d12	2000.000	2000.000	0.0	104	0.00
17	S	Terphenyl-d14	500.000	496.532	0.7	100	0.00
18	T	Benzo[a]anthracene	500.000	492.341	1.5	100	0.00
19	T	Chrysene	500.000	408.003	18.4	86	0.00
20	I	Perylene-d12	2000.000	2000.000	0.0	103	0.00
21	T	Benzo[b]fluoranthene	500.000	491.360	1.7	101	0.00
22	T	Benzo(j,k)fluoranthene	500.000	469.212	6.2	102	0.00
23	T	Benzo[a]pyrene	500.000	480.885	3.8	101	0.00
24	T	Indeno(1,2,3-c,d)pyrene	500.000	457.455	8.5	97	0.00
25	T	Dibenz[a,h]anthracene	500.000	496.426	0.7	104	0.00
26	T	Benzo[g,h,i]perylene	500.000	479.520	4.1	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801012.D
Acq On : 1 Aug 2025 12:35 pm
Operator : JP
Sample : ICV
Misc : SV7-011-14
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 12:54:48 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

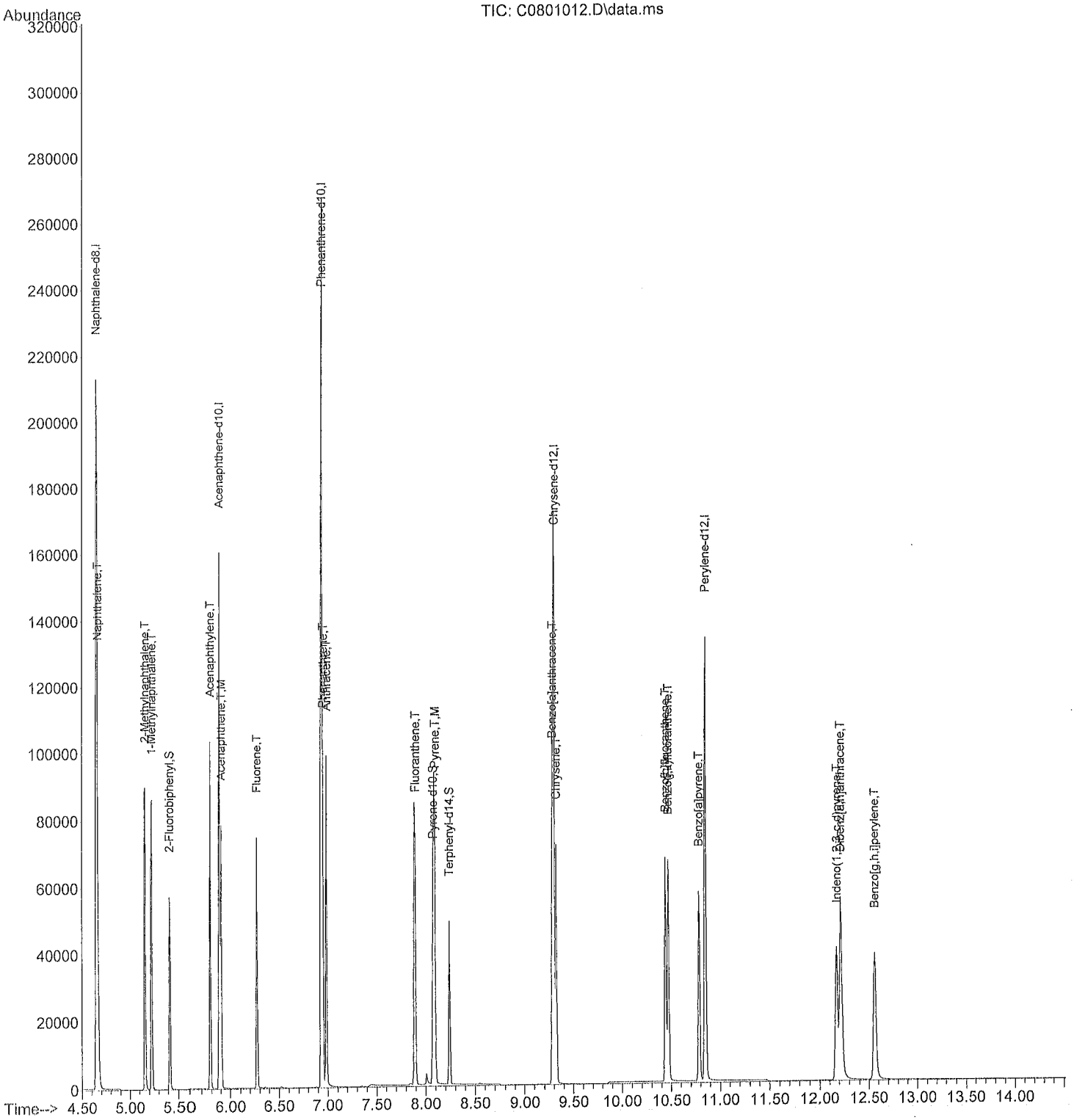
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.645	136	215092	2000.00	ppb	0.00
5) Acenaphthene-d10	5.884	164	113215	2000.00	ppb	0.00
9) Phenanthrene-d10	6.931	188	200933	2000.00	ppb	0.00
16) Chrysene-d12	9.298	240	157247	2000.00	ppb	0.00
20) Perylene-d12	10.852	264	159293	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.412	172	48755	512.37	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 51.24%			
10) Pyrene-d10	8.076	212	47267	459.55	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 45.95%			
17) Terphenyl-d14	8.239	244	37648	496.53	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 49.65%			
Target Compounds						Qvalue
2) Naphthalene	4.660	128	58998	476.50	ppb	98
3) 2-Methylnaphthalene	5.156	142	42237	477.77	ppb	100
4) 1-Methylnaphthalene	5.226	142	38936	473.58	ppb	100
7) Acenaphthylene	5.784	152	62878	505.44	ppb	100
8) Acenaphthene	5.907	153	40438	505.21	ppb	100
11) Fluorene	6.270	166	46388	482.95	ppb	100
12) Phenanthrene	6.949	178	64545	468.65	ppb	95
13) Anthracene	6.983	178	61204	456.45	ppb	96
14) Fluoranthene	7.893	202	73124	484.12	ppb	93
15) Pyrene	8.095	202	72332	468.76	ppb	95
18) Benzo[a]anthracene	9.281	228	63997	492.34	ppb	94
19) Chrysene	9.321	228	51799	408.00	ppb	95
21) Benzo[b]fluoranthene	10.439	252	65347	491.36	ppb	97
22) Benzo(j,k)fluoranthene	10.468	252	60052	469.21	ppb	93
23) Benzo[a]pyrene	10.782	252	57810	480.89	ppb	95
24) Indeno(1,2,3-c,d)pyrene	12.177	276	56332	457.46	ppb	87
25) Dibenz[a,h]anthracene	12.216	278	59392	496.43	ppb	88
26) Benzo[g,h,i]perylene	12.563	276	56152	479.52	ppb	85

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

JP 8/7/25

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801012.D
Acq On : 1 Aug 2025 12:35 pm
Operator : JP
Sample : ICV
Misc : SV7-011-14
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 12:54:48 2025
Quant Method : C:\msdchem\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815002.D
Acq On : 15 Aug 2025 10:34 am
Operator : PB
Sample : PAH CCV0815-2
Misc : SV7-012-09
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 15 11:24:03 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
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	111	0.08
2	T	Naphthalene	500.000	479.011	4.2	110	0.08
3	T	2-Methylnaphthalene	500.000	447.907	10.4	103	0.07
4	T	1-Methylnaphthalene	500.000	466.545	6.7	107	0.07
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	108	0.08
6	S	2-Fluorobiphenyl	500.000	475.639	4.9	98	0.07
7	T	Acenaphthylene	500.000	477.345	4.5	106	0.08
8	T,M	Acenaphthene	500.000	481.278	3.7	105	0.07
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	110	0.06
10	S	Pyrene-d10	500.000	502.744	-0.5	114	0.07
11	T	Fluorene	500.000	476.125	4.8	107	0.07
12	T	Phenanthrene	500.000	473.227	5.4	109	0.06
13	T	Anthracene	500.000	486.364	2.7	109	0.06
14	T	Fluoranthene	500.000	481.994	3.6	110	0.06
15	T,M	Pyrene	500.000	483.616	3.3	111	0.06
16	I	Chrysene-d12	2000.000	2000.000	0.0	118	0.09
17	S	Terphenyl-d14	500.000	555.596	-11.1	128	0.07
18	T	Benzo[a]anthracene	500.000	477.833	4.4	111	0.09
19	T	Chrysene	500.000	472.216	5.6	113	0.09
20	I	Perylene-d12	2000.000	2000.000	0.0	117	0.11
21	T	Benzo[b]fluoranthene	500.000	455.139	9.0	107	0.10
22	T	Benzo(j,k)fluoranthene	500.000	483.560	3.3	120	0.11
23	T	Benzo[a]pyrene	500.000	459.429	8.1	110	0.11
24	T	Indeno(1,2,3-c,d)pyrene	500.000	460.405	7.9	112	0.17
25	T	Dibenz[a,h]anthracene	500.000	438.289	12.3	105	0.16
26	T	Benzo[g,h,i]perylene	500.000	439.916	12.0	106	0.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815002.D
Acq On : 15 Aug 2025 10:34 am
Operator : PB
Sample : PAH CCV0815-2
Misc : SV7-012-09
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 15 11:24:03 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.589	136	232114	2000.00	ppb	-0.06
5) Acenaphthene-d10	5.824	164	119474	2000.00	ppb	-0.06
9) Phenanthrene-d10	6.867	188	214688	2000.00	ppb	-0.06
16) Chrysene-d12	9.211	240	179339	2000.00	ppb	-0.09
20) Perylene-d12	10.760	264	181528	2000.00	ppb	-0.09
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.353	172	47762	475.64	ppb	-0.06
Spiked Amount 1000.000	Range 25 - 89		Recovery = 47.56%			
10) Pyrene-d10	8.001	212	55249	502.74	ppb	-0.08
Spiked Amount 1000.000	Range 40 - 110		Recovery = 50.27%			
17) Terphenyl-d14	8.165	244	48001	555.60	ppb	-0.07
Spiked Amount 1000.000	Range 39 - 92		Recovery = 55.56%			
Target Compounds						Qvalue
2) Naphthalene	4.604	128	64002	479.01	ppb	100
3) 2-Methylnaphthalene	5.091	142	42731	447.91	ppb	100
4) 1-Methylnaphthalene	5.161	142	41393	466.55	ppb	99
7) Acenaphthylene	5.724	152	62666	477.34	ppb	100
8) Acenaphthene	5.840	153	40652	481.28	ppb	100
11) Fluorene	6.202	166	48863	476.13	ppb	100
12) Phenanthrene	6.879	178	69637	473.23	ppb	96
13) Anthracene	6.919	178	69679	486.36	ppb	97
14) Fluoranthene	7.809	202	77786	481.99	ppb	95
15) Pyrene	8.011	202	79733	483.62	ppb	96
18) Benzo[a]anthracene	9.199	228	70864	477.83	ppb	95
19) Chrysene	9.234	228	68374	472.22	ppb	98
21) Benzo[b]fluoranthene	10.353	252	68979	455.14	ppb	97
22) Benzo(j,k)fluoranthene	10.383	252	70527	483.56	ppb	98
23) Benzo[a]pyrene	10.696	252	62940	459.43	ppb	98
24) Indeno(1,2,3-c,d)pyrene	12.053	276	64609m	460.40	ppb	
25) Dibenz[a,h]anthracene	12.084	278	59756	438.29	ppb	95
26) Benzo[g,h,i]perylene	12.431	276	58705	439.92	ppb	91

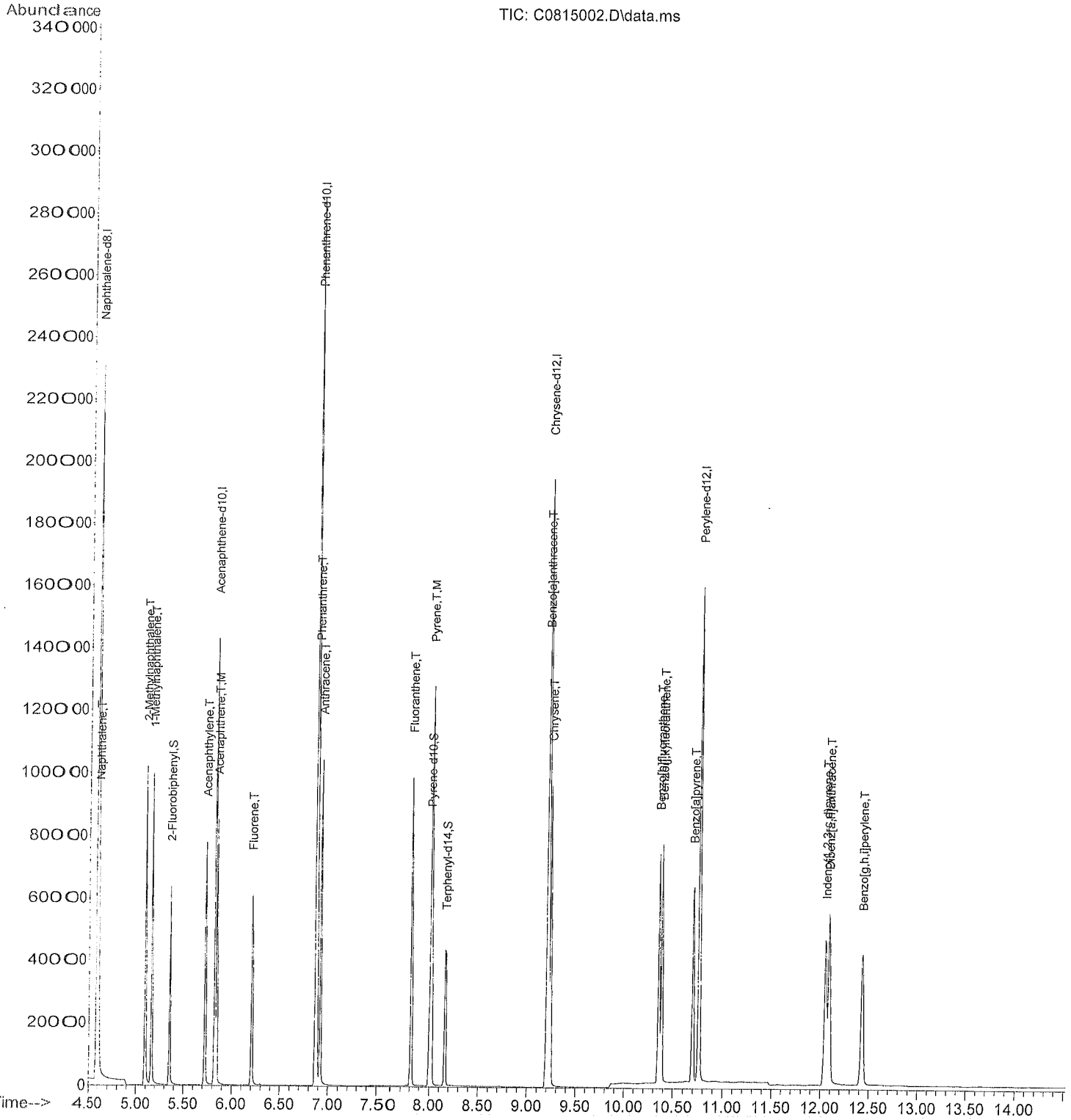
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD 9/18/25

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C250815\
Data File : C0815002.D
Acq On : 15 Aug 2025 10:34 am
Operator : PB
Sample : PAH CCV0815-2
Misc : SV7-012-09
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 15 11:24:03 2025
Quant Method : C:\MSDCHEM\1\METHODS\CS250801.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Aug 01 12:51:14 2025
Response via : Initial Calibration

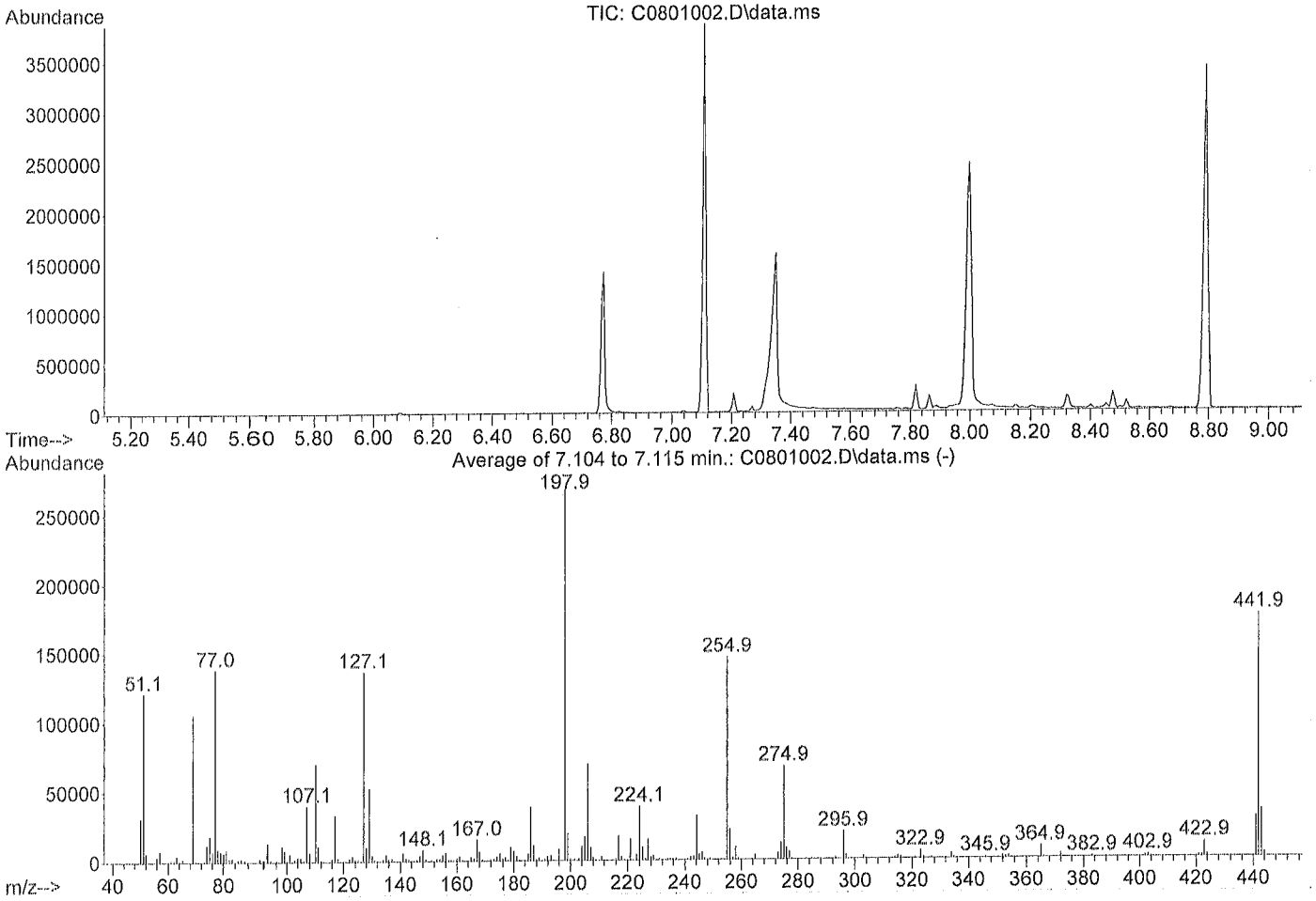


CS250801.M Mon Sep 08 11:13:16 2025

Data Path : X:\semivols\Corey\DATA\C250801\
Data File : C0801002.D
Acq On : 1 Aug 2025 8:59 am
Operator : JP
Sample : DFTPP
Misc : SV7-008-14
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\CS250731.M
Title : PAH'S BY SIMS
Last Update : Fri Jul 18 08:39:56 2025



AutoFind: Scans 703, 704, 705; Background Corrected with Scan 697

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	39.5	105953	PASS
70	69	0.00	2	0.6	666	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	268384	PASS
199	198	5	9	7.3	19508	PASS
365	198	1	100	3.2	8506	PASS
441	443	0.00	150	84.7	29032	see #1
442	198	0.00	200	65.5	175714	PASS
443	442	15	24	19.5	34277	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

Tune File : X:\semivols\Corey\DATA\C250801\C0801012.D
Tune Time : 1 Aug 2025 12:35 pm

Daily Calibration File : X:\semivols\Corey\DATA\C250801\C0801012.D

	(PRY)	(NPT)	(ACE)	(PHN)
		215092	113215	200933
		(CRY)	(PRY)	
		157247	159293	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0801004.D							
	20 PPB ICA	2*	2*	2*	209063	111891	195010
					150401	151148	
C0801005.D							
	50 PPB ICA	5*	5*	5*	215638	115556	202604
					154819	156715	
C0801006.D							
	10 PPB ICA	1*	1*	1*	212638	113337	198523
					151960	154532	
C0801007.D							
	100 PPB IC	11*	11*	11*	212537	113920	200351
					153207	155491	
C0801008.D							
	200 PPB IC	20*	20*	21*	212531	113565	198836
					153360	155737	
C0801009.D							
	500 PPB IC	52	48	51	209840	110998	195302
					151665	155082	
C0801010.D							
	1000 PPB I	91*	90	98*	211136	112100	197031
					152744	154997	
C0801011.D							
	5000 PPB I	385*	398*	426*	211155	114230	200565
					159492	162506	

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

Created: Mon Sep 22 14:40:04 2025 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C250815\C0815002.D
Tune Time : 15 Aug 2025 10:34 am

Daily Calibration File : X:\semivols\Corey\DATA\C250815\C0815002.D

(PRY)	(NPT)	(ACE)	(PHN)
	232114	119474	214688
	(CRY)	(PRY)	
	179339	181528	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0815003.D							
	SB0815W1	70	93	105*	224531	119876	216524
			184443		187517		
C0815004.D							
	SB0815W1 D	70	95	107*	221610	118476	213437
			182661		186680		
C0815010.D							
	MB0815W1 R	76	95	104*	219291	116958	211160
			179524		178964		
C0815025.D							
	08-156-01	58	86	90	211879	115890	209354
			179411		178109		
C0815026.D							
	08-156-02	54	76	79	223298	120922	217174
			180456		179584		
C0815027.D							
	08-156-03	59	84	89	220287	119154	214971
			182670		179932		

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

Created: Mon Sep 22 14:41:07 2025 Corey

Sequence Name: C:\msdchem\1\sequence\C250801.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C250801\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0801001 CSIMSCAN TEST
2)	Sample 2	C0801002 CSIMSCAN DFTPP
3)	Sample 3	C0801003 CS250801 10 PPB ICAL
4)	Sample 4	C0801004 CS250801 20 PPB ICAL
5)	Sample 5	C0801005 CS250801 50 PPB ICAL
6)	Sample 6	C0801006 CS250801 10 PPB ICAL
7)	Sample 7	C0801007 CS250801 100 PPB ICAL
8)	Sample 8	C0801008 CS250801 200 PPB ICAL
9)	Sample 9	C0801009 CS250801 500 PPB ICAL
10)	Sample 10	C0801010 CS250801 1000 PPB ICAL
11)	Sample 11	C0801011 CS250801 5000 PPB ICAL
12)	Sample 12	C0801012 CS250801 ICV
13)	Sample 13	C0801013 CS250801 SB0801W1
14)	Sample 14	C0801014 CS250801 SB0801W1 DUP
15)	Sample 15	C0801015 CS250801 SB0731S2
16)	Sample 16	C0801016 CS250801 SB0731S2 DUP
17)	Sample 17	C0801017 CS250801 MB0801W1
18)	Sample 18	C0801018 CS250801 PAH CCV0801-1
19)	Sample 19	C0801019 CS250801 SB0801W1 REX
20)	Sample 20	C0801020 CS250801 SB0801W1 DUP REX
21)	Sample 21	C0801021 CS250801 07-375-01
22)	Sample 22	C0801022 CS250801 07-375-02
23)	Sample 23	C0801023 CS250801 07-375-03
24)	Sample 24	C0801024 CS250801 07-375-04
25)	Sample 25	C0801025 CS250801 07-247-53
26)	Sample 26	C0801026 CS250801 07-247-65
27)	Sample 27	C0801027 CS250801 07-227-09
28)	Sample 28	C0801028 CS250801 07-227-11
29)	Sample 29	C0801029 CS250801 07-309-10 REX
30)	Sample 30	C0801030 CS250801 07-309-05 REX
31)	Sample 31	C0801031 CS250801 07-309-09 REX
32)	Sample 32	C0801032 CS250801 07-309-13 REX 5X
33)	Sample 33	C0801033 CS250801 07-309-06 REX 5X
34)	Sample 34	C0801034 CS250801 07-230-05 5X
35)	Sample 35	C0801035 CS250801 07-309-02 REX 5X
36)	Sample 36	C0801036 CS250801 07-309-01 REX 50X
37)	Sample 37	C0801037 CS250801 07-360-07
38)	Sample 38	C0801038 CS250801 07-324-07
39)	Sample 39	C0801039 CS250801 07-311-05
40)	Sample 40	C0801040 CS250801 07-392-04 20X
41)	Sample 41	C0801041 CS250801 07-392-05 20X
42)	Sample 42	C0801042 CS250801 07-324-04 REX 20X
43)	Sample 43	C0801043 CS250801 07-324-06 20X

Sequence Name: C:\msdchem\1\sequence\C250801.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	44	C0801044	CS250801	07-360-30 20X
45)	Sample	45	C0801045	CS250801	07-360-24 20X
46)	Sample	46	C0801046	CS250801	07-311-07 20X
47)	Sample	47	C0801047	CS250801	07-309-14 REX 20X
48)	Sample	48	C0801048	CS250801	07-247-48 50X

time, rerun

Sequence Name: C:\msdchem\1\sequence\C250815.S
Comment:
Operator: PB
Data Path: C:\MSDCHEM\1\DATA\C250815\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C081500 1 CS250801 PAH CCV0815-1
2)	Sample 2	C081500 2 CS250801 PAH CCV0815-2
3)	Sample 3	C081500 3 CS250801 SB0815W1
4)	Sample 4	C081500 4 CS250801 SB0815W1 DUP
5)	Sample 5	C081500 5 CS250801 MB0815W1
6)	Sample 6	C081500 6 CS250801 MB0815W1 RR
7)	Sample 7	C081500 7 CS250801 SB0815S1
8)	Sample 8	C081500 8 CS250801 SBD0815S1
9)	Sample 9	C081500 9 CS250801 MB0815S1
10)	Sample 10	C081501 0 CS250801 MB0815W1 REX
11)	Sample 11	C081501 1 CS250801 08-163-01
12)	Sample 12	C081501 2 CS250801 08-163-02
13)	Sample 13	C081501 3 CS250801 08-163-03
14)	Sample 14	C081501 4 CS250801 08-163-04
15)	Sample 15	C081501 5 CS250801 08-163-05
16)	Sample 16	C081501 6 CS250801 08-163-06
17)	Sample 17	C081501 7 CS250801 08-163-07
18)	Sample 18	C081501 8 CS250801 08-163-08
19)	Sample 19	C081501 9 CS250801 08-163-09
20)	Sample 20	C081502 0 CS250801 08-163-10
21)	Sample 21	C081502 1 CS250801 08-163-11
22)	Sample 22	C081502 2 CS250801 08-163-12
23)	Sample 23	C081502 3 CS250801 08-163-13
24)	Sample 24	C081502 4 CS250801 08-171-01
25)	Sample 25	C081502 5 CS250801 08-156-01
26)	Sample 26	C081502 6 CS250801 08-156-02
27)	Sample 27	C081502 7 CS250801 08-156-03

EPA 8270 EXTRACTION LOGBOOK

OnSite Environmental Inc.

60

Date Extracted: 08/15/25 Time Ext. _____ am/pm

Analysis: PAH

Matrix: H2O

Surrogate Std. ID: SVT-010-26

Spike Std. ID: SVT-005-15

AN 8/15/25

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB0815W1		1000 mL	25 mL	1 mL	100 µL	~~100~~	—	AN	
SB0815W1		"	"	"	"	100 µL	"	"	
SBD0815W1		"	"	"	"	"	"	"	
08-163-01f		1534-507	"	"	"	—	"	"	
-02f		1527-512	"	"	"	"	"	"	
-03f		1549-513	"	"	"	"	"	"	
-04f		1516-499	"	"	"	"	"	"	
-05f		1560-510	"	"	"	"	"	"	
-06f		1514-507	"	"	"	"	"	"	
-07f		1555-517	"	"	"	"	"	"	
-08f		1557-509	"	"	"	"	"	"	
-09f		1558-523	"	"	"	"	"	"	
-10f		1550-508	"	"	"	"	"	"	
-11f		1556-507	"	"	"	"	"	"	
-12f		1545-5283	"	"	"	"	"	"	
AN 8/15/25 -13f		1557-518	"	"	"	"	"	"	
08-171-01a		1558-504	"	"	"	"	"	"	
08-156-01a		1579-508	"	"	"	"	"	"	
-02a		1564-517	"	"	"	"	"	"	
-03a		1580-519	"	"	"	"	"	"	
									JD 8/18/25

Clean-up (L)Alumina

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
8270 Cal Mix 3	SV194401							JP	2/24/25
		RESTEK 31995 Notebook Label: Lot# A0213040 Expire: 05/2030 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 For Laboratory Use Only 1 mL							
Diff Stock	SV194402	SV194401	2000 ppm	1 mL	20 mL	100 ppm	MeCl2		
Diff Spike	SV194403	SV194402	100 ppm	2.5 mL	50 mL	5 ppm	Acetone		
Diff CCV	SV194404	SV175510	10 ppm	10 mL	20 mL	5000 ppb	MeCl2	JP	2/24/25
BN Ccv	SV194405	SV194116 BS16	20 ppm	20/20	20 mL	20 ppm	MeCl2	JP	2/25/25
8270 Cal Mix 5	SV194405							JP	
		RESTEK 31995 Notebook Label: Lot# A0207797 Expire: 01/2030 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 For Laboratory Use Only 1 mL							
Revised B/N Mix	06								
		RESTEK 31887 Notebook Label: Lot# A0212855 Expire: 05/2030 Store: 10°C or colder Revised B/N 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 For Laboratory Use Only 1 mL							
PAH Working Stock	SV194407	SV194405 06	200 ppm 1000 ppm	50 µL 100 µL	10 mL	10 ppm	MeCl2	JP	2/25/25
PAH 5000	SV194408	SV194407	10 ppm	500 µL	1 mL	5000 ppb			
1000	09			100		1000			
500	10			50		500			
200	11			20		200			
100	12			10		100			
50	13	SV194409	1 ppm	50		50			
20	14			20		20			
10	15			10		10			
LCV	16	SV185240	10 ppm	10	200 µL	500			
PAH CCV	SV194417	SV194407	10 ppm	10 mL	20 mL	5000 ppb	MeCl2	JP	2/25/25
Diff CCV	SV194418	SV194407	10 ppm	10 mL	20 mL	5000 ppb	MeCl2	JP	2/26/25
BN Ccv	SV194419	SV194116 BS16	20 ppm	20/20 ppm	20 mL	20 ppm	MeCl2	JP	2/26/25
8270 Mega Mix	SV194420							JP	2/27/25
		RESTEK 31850 Notebook Label: Lot# A0219439 Expire: 09/2025 Store: 0°C or colder 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 Warning Danger Receipt Date: Opened Date: Made in USA For Laboratory Use Only 1 mL							

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
MVL Extra 2	SV620601	SV620506	1000 ppm	1000 µL	10 mL	100 ppm	Acetone	JD	5/13/25
		SV618606	2000	5		1.00			
Ext 2 3,3-Dichlorobenzene	1 02	SV618403	2000 1	250		50	1		
8270 Surr	SV620603							JD	5/14/25
Stock									

AccuStandard® 126 Market St, New Haven, CT 06513 www.AccuStandard.com

M-8270-SS 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 224091481
Exp: Oct 02, 2034
6 comp(s)
Storage: Ambient (>5 °C)
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

AccuStandard® 126 Market St, New Haven, CT 06513 www.AccuStandard.com

M-8270-SS 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 223021323
Exp: Feb 15, 2033
6 comp(s)
Storage: Ambient (>5 °C)
PRODUCT OF THE USA
FOR LABORATORY USE ONLY

H315 H335 H332 H302 H351 H350 P338 P360 P311 P233 P262 P202 Refer to SDS
Signal Word: Warning

SVOL Surr	SV620605	SV620 3/14	4000 ppm	1.0 mL each	100 mL	80 ppm	Acetone	JD	
BNA CCV	SV620606	SV6190 15/16	200 ppm	10 µL	200 µL	500 ppb	MeCl2	JD	5/14/25
PAH CCV	1 07	SV619407	100 ppm	20/20 µL	1	2 ppm	1	1	1
PAH STD	SV620608	SV6 18	4000 ppm	0.5 mL	50 mL	40 ppm	MeCl2	JD	5/15/25
JD 5/15/25		SV6-182-065							

CRM47543
Polynuclear Aromatic Hydrocarbons Mix
certified reference material, 2000 µg/mL each component in benzene: dichloromethane (50:50) ampule of 1 mL

LRAD7632
Store: 2027-03-31
Expiration date: YYYY-MM-DD

(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

sigmaaldrich.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

SIGMA-ALDRICH, Co., 3050 Spruce Street, St. Louis, MO 63103 USA
+1-314-771-5765, SIGMA-ALDRICH CHEMIE GmbH, Eschborn, Germany +49 7326 970, Affiliates of Merck KGaA, Darmstadt, Germany

Revised B/N Surr Mix	SV620610								
PAH ICV Stock	SV620611	SV620609 10	2000 µg/mL [100 ppm]	50 µL 100 µL	10 mL 1	100 ppm 1	MeCl2 (		
								JD	5/15/25

RESTEK 31887
Lot# A0213779
Expire: 06/2030 Store: 10°C or colder
Revised B/N 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

Notebook Label

Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only

1 mL

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP ICV	SV700301	SV619 614/15	10 ppm	20/20 µL	200 µL	1000 ppb	MeCl2	JP	6/6/25
PAH CCV	02	SV194-09	↓	10	↓	500 ↓	↓	↓	↓
PAH CCV	SV700303	↓	↓	10 µL	200 µL	500 ppb.	↓	JP	6/9/25
BNA CCV	↓ 04	SV6208 18/19	200 ppm	20/20	↓	20 ppm		↓	↓
~~PAH CCV~~	~~SV700305~~	~~SV6-194-07~~	~~200 ppm~~	~~10 µL~~	P.B. 6/9/25				
Revsc BW Mix	SV700305								
	RESTEK 31887 (label)								
PAH Sw	SV700306	SV700305	1000 ppm	1 mL	100 µL	10 ppm	Acetone		
PAH CCV	SV700307	~~SV6-194-07~~ ~~SV700305~~	10 ppm	10 µL	200 µL	500 ppb	MeCl2	P.B.	6/10/25
PAH CCV	SV700308	SV6-194-07	↓	↓	↓	↓	↓	↓	↓
PAH CCV	SV700309	↓						JP	6/11/25
PAH CCV	SV700310	SV619407	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	6/12/25
BNA 60	SV700311	SV6208 11/12	200 ppm	60/60 µL		60 ppm			
50	12			50/50		50			
35	13			35/35		35			
20	14			40/40	400 µL	20			
10	15			10/10	200 µL	10			
5	16	SV700314	20 ppm	50		5			
2	17			20		2			
1	18			10		1			
0.5	19			5		0.5			
ICV	20	SV6208 18/19	200 ppm	20/20		20			
BNA CCV	SV700321	↓	↓	20/20 µL	200 µL	20 ppm	MeCl2	JP	6/13/25
PAH CCV	SV700322	SV619407	10 ppm	10 µL	↓	500 ppb	↓	↓	↓
PAH CCV	SV700323	SV619409	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	6/16/25
BNA CCV	↓ 24	SV6208 11/12	200 ppm	20/20 µL	↓	20 ppm	↓	↓	↓
PAH ICAL	SV700325	SV619405 / 06	2000 ppm / 1000 ppm	50 µL / 100 µL	10 mL ↓	10 ppm ↓	MeCl2 ↓	JP ↓	6/17/25 ↓
PAH CCV	SV700326	SV619407	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	6/17/25

RESTEK
31887
Notebook Label
Lot# A0213779
Expire: 06/2030 Store: 10°C or colder
Revised B/N 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
For Laboratory Use Only

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
SVOC Surr	SV700501	SV600424	4000ppm	2mL	100mL	80ppm	Acetone	JP	6/23/25
PAH CCV	SV700502	SV700325	10 ppm	10 µL	200µL	500ppb	MeCl2	JP	↓
BNA CCV	↓ 03	SV6208 18/19	200 ↓	20/20 ↓	↓	20ppm	↓	↓	
BNA CCV	SV700504	SV6208 18/19	200ppm	20/20 µL	200µL	20ppm			6/24/25
PAH CCV	05	SV700325	10ppm	10 ↓	↓	500ppb			↓
PAH CCV	SV700506	SV700325	10 ppm	10 µL	200 µL	500 ppb	MeCl2	P.B.	6/25/25
PAH CCV	SV700507	SV700325	10 ppm	10 µL	200µL	500 ppb	MeCl2	P.B.	6/25/25
PAH CCV	SV700508	SV700325	10 ppm	10 µL	200 µL	500ppb	MeCl2	P.B.	6/26/25
BNA CCV	SV700509	SV6208 18/19	200 ppm	20/20 µL	200 µL	20 ppm	MeCl2	P.B	6/26/25
BNA CCV	SV700510	↓	↓	↓	↓	↓	↓	↓	↓
BNA CCV	SV700511	SV6208 18/19	200ppm	20/20µL	200µL	20ppm	MeCl2	JP	6/27/25
PAH CCV	SV700512	SV700325	10ppm	10µL	↓	500ppb			
Revised B/N Surr	SV700513								

RESTEK
31887
Lot# A0213779
Expire: 06/2030 Store: 10°C or colder
Revised B/N 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
For Laboratory Use Only
JNotebook Label

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH Surr	14	SV700513	1000 ppm	1mL	100 mL	10ppm	Acetone		
PAH Spike	15	SV619402	100ppm	2.5mL	50	5ppm	↓		
8270 Megamix	SV700516							JP	6/30/25

RESTEK
31850
Lot# A0221014
Expire: 11/2025 Store: 0°C or colder
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
Warning Danger
Receipt Date:
Opened Date:
Made in USA 1 mL
For Laboratory Use Only
JNotebook Label

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
Custom Stock	17								

AccuStandard® 125 Market St, New Haven, CT 06513
www.AccuStandard.com
S-15651 1 mL
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 224111110 5 comp(s)
Exp: Dec 08, 2025 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
None Required

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
SVOC Spike #1	18	SV700516	1000ppm	1mL	5mL	200ppm	Acetone		
↓ #2	19	↓ 17	↓	↓	↓	↓	↓		
PAH CCV	SV700520	SV700325	10 ppm	10µL	200µL	500ppb	MeCl2	JP	6/30/25
BNA CCV	↓ 21	SV6208 18/19	200 ppm	20/20µL	↓	20ppm	↓	↓	↓
PAH CCV	SV700522	SV700325	10 ppm	10 µL	200 µL	500 ppb	MeCl2	P.B.	7/1/25
BNA CCV	SV700523	SV6208 18/19 1/2	200 ppm	20/20 µL	↓	20 ppm	↓	↓	↓

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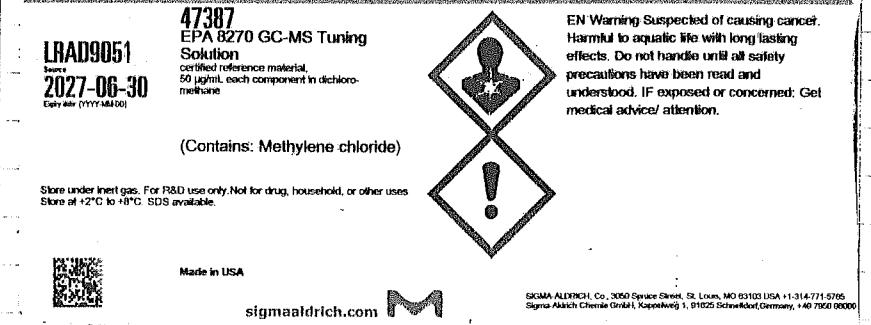
	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	PAH CCV	SV700801	SV700325	10ppm	10µL	200µL	500ppb	MeCl2	JP	7/16/25
	BNA 60	SV700802	SV6208 1/2	200ppm	60/60 µL	200µL	60 ppm			
	50	03			50/50		50			
	35	04			35/35		35			
	20	05			40/40	400µL	20			
	10	06			20/20	200µL	10			
	5	07	SV700805	20ppm	50		5			
	2	08			20		2			
	1	09			10		1			
	0.5	10			5		0.5			
	ICV	11	SV6208 18/19	200ppm	20/20		20			
	BNA CCV	SV700812	1	200ppm	20/20 µL	200µL	20ppm	MeCl2	JP	7/17/25
	PAH CCV	1 13	SV700325	10ppm	10 µL	1	500ppb	1	1	1
	DFTPP	SV700814							JP	7/17/25



	PAH CCV	SV700815	SV700325	10ppm	10 µL	200µL	500ppb	MeCl2	JP	7/18/25
	BNA CCV	1 16	SV6208 1/2	200ppm	20/20 µL	1	20ppm	1	1	1
	BNA CCV	SV700817	SV6208 18/19	200ppm	20/20 µL	200µL	20ppm	MeCl2	JP	7/24/25
	PAH	SV700818	SV700325	10ppm	10 µL	1	500ppb	1	1	1
	PAH CCV	SV700819	SV700325	10 ppm	10µL	200 µL	500ppb	MeCl2	P.B.	7/22/25
	BNA CCV	SV700820	SV6208 1/2	200 ppm	20/20 µL	200 µL	20 ppm	1	1	1
	BNA CCV	SV700821	1	1	1	1	1	MeCl2	JP	7/23/25
	PAH CCV	SV700822	SV700325	10ppm	10µL	1	500ppb	1	1	1
	PAH CCV	SV700823	1	10ppm	10µL	200µL	500ppb	MeCl2	JP	7/24/25
	BNA CCV	1 24	SV6208 1/2	200 ppm	20/20µL	1	20ppm	1	1	1
	BNA CCV	SV700825	SV6208 18/19	200ppm	20/20µL	200µL	20ppm	MeCl2	JP	7/25/25
	PAH CCV	1 26	SV700325	10ppm	10 µL	1	500ppb	1	1	1

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PROJECT NO.

BOOK NO.

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP Surr	SV7Q900	SV7009105	1000 ppm	200 µL	2mL	100ppm	Acetone	VP	7/25/25
OPP Spike A	1 02	1 01	200	250	5mL	1	/	/	/
1 B	1 03	1 02	200	250	/				
OPP 200	SV701004	SV7009 7/8	10ppm	4/4 µL	200µL	200 ppb	Mec12	VP	7/28/25
500	05			10/10		500			
1000	06			20/20		1000			
2000	07			40/40		2000			
3000	08			60/60		3000			
4000	09			80/80		4000			
LCV	10	SV7009 9/10		20/20		1000			
PAH CCV	11	SV7003 25		10		500			
PAH CCV	SV701012	1							
BNA CCV	13	SV8208 12	200 ppm	10 µL	200µL	500ppb		VP	7/29/25
PAH ICV	14	SV8706 11	100 ppm	20/20		200ppm		F	
PAH 5000	SV701015	SV700325	10ppm	10		500 ppb			
1000	16			500 µL	1mL	5000 ppb			
500	17			100		1000			
200	18			50		500			
100	19			20		200			
50	20	SV701016	1000ppb	10		100			
20	21			5		50			
10	22			2		20			
				1		10			
PAH CCV	SV701023	SV700325	10ppm	10µL	200µL	500		VP	7/30/25
BNA CCV	24	SV8208 12	200ppm	20/20mL		200ppm			
PAH Surr	SV701025								
Stock									

RESTEK
31887
Lot# A0213779
Expire: 06/2030 Store: 10°C or colder
Revised B/N 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
For Laboratory Use Only

1 mL

PAH Surr	SV701026	SV701025	100ppm	1mL	100mL	10ppm	Acetone		
BNA CCV	SV701027	SV8208 12/19	200ppm	20/20mL	200µL	20ppm	Mec12		
								VP	7/31/25

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA 60	SV7011 01	SV6208 12	200ppm	60/60 µL	200µL	60 ppm	MeCh	JD	7/30/25
50	02			50/50		50			
35	03			35/35		35			
20	04			40/40	400µL	20			
10	05			10/10	200µL	10			
5	06	SV7011 04	20ppm	50		5			
2	07			20		2			
1	08			10		1			
0.5	09			5		0.5			
ICV	10	SV6208 12/11	200ppm	20/20		20			
BNA CCV	SV7011 11					20		JD	7/31/25
PAH CCV	12	SV7003 25	10ppm	10		500 ppb			
PAH ICV	SV7011 13	SV6206 11						JD	8/1/25
PAH LCV	SV7011 14								
BNA CCV	15	SV7003 25							
BNA CCV	16	SV6208 12	200ppm	20/20		20ppm			
BNA CCV	SV7011 17			20/20 µL	200µL	20 ppm		JP	8/4/25
PAH CCV	18	SV7003 25	10ppm	10		500ppb			
PAH CCV	SV7011 19			10					8/5/25
BNA CCV	20	SV6208 12	200ppm	20/20		20ppm			
8270 Megamix	SV7011 21								
Custom Stock	22								
8270 Spike #1	23	SV7011 21	10000ppm	1mL	5mL	2000ppm	Acetone	JP	8/6/25
#2	24	22							
PAH CCV	SV7011 25	SV7003 25	10ppm	~~200µL~~ 10µL	200µL	500ppb	MeCh	JP	8/7/25
BNA CCV	26	SV6208 12	200ppm	~~20/20µL~~ 20/20µL		20ppm			

RESTEK
31850
Lot# A0226829
Expire: 03/2026
Store: 0°C or colder
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
Laboratory Use Only Not for human or animal use

1 mL

[Notebook Label]

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: 224111110
Exp: Dec 08, 2025
PRODUCT OF THE USA

1 mL
5 comp(s)
Storage: Freeze (<-10 °C)
FOR LABORATORY USE ONLY

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

Signal Word: Warning

None Required

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	PAH CCV	SV7012101	SV700325	10 ppm	10 mL	200 µL	500 ppb	$MeCl_2$	P.B	8/18/25
	PAH CCV	SV7012102	SV700325	10 ppm	10 mL	200 µL	500 ppb	$MeCl_2$	P.B.	8/18/25
5	BNA CCV	SV7012103	SV6208 18/19	200 ppm	20/20 mL	200 µL	20 ppm	$MeCl_2$	P.B.	8/18/25
	PAH CCV	SV7012104	SV700325	10 ppm	10 mL	200 µL	500 ppb	$MeCl_2$	P.B.	8/18/25
	BNA CCV	SV7012105	SV6208 18/19	200 ppm	20/20 mL	200 µL	20 ppm	$MeCl_2$	P.B.	8/18/25
	PAH CCV	SV7012106	SV700325	10 ppm	10 µL	〃	500 ppb	〃	〃	8/18/25
	BNA CCV	SV7012107	SV6208 18/19	200 〃	20/20 〃	〃	20 ppm	〃	〃	〃
10	PAH CCV	SV7012108	SV700325	10 ppm	10 µL	250 µL	500 ppb	$MeCl_2$	P.B.	8/18/25
	PAH CCV	SV7012109	〃	〃	〃	〃	〃	〃	〃	8/18/25
	PAH CCV	SV7012110	〃	〃	〃	〃	〃	〃	〃	8/18/25
	BNA CCV	SV7012111	SV6208 18/19	200 ppm	20/20 mL	200 µL	20 ppm	〃	〃	8/18/25
	BNA CCV	SV7012112	〃	〃	〃	〃	〃	〃	〃	〃
15	PAH CCV	SV7012113	SV700325	10 ppm	10 µL	200 µL	500 ppb	〃	〃	8/19/25
	OPP 200	SV7012114	SV7009 7/18	10 ppm	4/4 mL	200 µL	200 ppb	〃	〃	〃
	500	15	〃	〃	10/10 mL	〃	500	〃	〃	〃
	1000	16	〃	〃	20/20 mL	〃	1000	〃	〃	〃
	2000	17	〃	〃	40/40 mL	〃	2000	〃	〃	〃
20	3000	18	〃	〃	60/60 mL	〃	3000	〃	〃	〃
	4000	19	〃	〃	80/80 mL	〃	4000	〃	〃	〃
	ICV	20	SV7009 9/10	〃	20/20 mL	〃	1000	〃	〃	〃
	OPP CCV	SV7012121	SV7009 9/10	〃	20/20 mL	〃	1000 ppb	〃	〃	〃
	PAH CCV	SV7012122	SV700325	10 ppm	10 mL	200 µL	500 ppb	$MeCl_2$	P.B.	8/20/25
25	BNA CCV	SV7012123	SV6208 18/19	200 ppm	20/20 mL	〃	20 ppm	〃	〃	〃
	BNA CCV	SV7012124	〃	〃	〃	〃	〃	〃	〃	8/21/25
	PAH CCV	SV7012125	SV700325	10 ppm	10 mL	〃	500 ppb	〃	〃	〃
	〃	SV7012126	〃	〃	〃	〃	〃	〃	〃	〃
	PAH CCV	SV7012127	SV700325	〃	〃	〃	〃	〃	〃	〃
30	BNA CCV	SV7012128	SV6208 18/19	200 ppm	20/20 mL	200 µL	20 ppm	〃	〃	8/22/25
	PAH CCV	SV7012129	SV700325	10 ppm	10 mL	〃	500 ppb	〃	〃	〃
	~~PAH CCV~~ BNA CCV	SV7012130	SV6208 18/19	200 ppm	20/20 mL	〃	20 ppm	〃	〃	8/25/25
	BNA CCV	131	〃	〃	〃	〃	〃	〃	〃	〃
	PAH CCV	SV7012132	SV700325	10 ppm	10 mL	〃	500 ppb	〃	〃	〃
35	PAH CCV	SV7012133	〃	〃	〃	〃	〃	〃	〃	8/26/25

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Total Metals
EPA 200.8 Data

Dataset Report

8-19-25

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\
Report Date/Time: Tuesday, August 19, 2025 12:13:47

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [¶[STD/KED] Nebulizer (		07:08:06 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - [¶[STD/KED] Nebulizer (		07:09:16 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - CQID		07:11:50 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - CQID		07:13:58 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - CQID		07:16:08 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - MMass Calibration and I		07:19:25 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - [¶[STD] Performance Ch		07:20:09 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
SmartTune - [¶[STD] Performance Ch		07:23:28 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Sample	07:30:55 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Sample	07:35:06 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Sample	07:39:17 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Blank	07:43:27 Tue 19-A	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 1	07:46:47 Tue 19-A	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 2	07:50:08 Tue 19-A	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 3	07:53:28 Tue 19-A	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 4	07:56:49 Tue 19-A	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 5	08:00:09 Tue 19-A	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 6	08:03:30 Tue 19-A	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	Standard 7	08:06:50 Tue 19-A	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 1	08:11:00 Tue 19-A	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 2	08:15:11 Tue 19-A	QC Std #2	C:\Users\Public\Docum	Dual Cal. Blank , gistix\ICPMS\DataSet\Y250819
SmartTune - EDual Detector Calibrati		08:17:17 Tue 19-A	Sample	C:\Users\Public\Docum	Dual Calibration , gistix\ICPMS\DataSet\Y250819
SmartTune - EDual Detector Calibrati		08:17:26 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 2	08:29:27 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 6	08:33:38 Tue 19-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 7	08:37:48 Tue 19-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 8	08:41:58 Tue 19-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	MB0819WM1 2X	08:51:09 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	SB0819WM1 2X	08:55:19 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-183-10b 2X	09:00:29 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-183-10b D 2X	09:04:39 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-183-10b L 10X	09:08:49 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-183-10b MS 2X	09:12:58 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-183-10b MSD 2X	09:17:08 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-183-10b PS 2X	09:21:19 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-131-01 2X	09:25:30 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-131-02 2X	09:29:39 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 6	09:33:49 Tue 19-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 7	09:37:59 Tue 19-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	QC Std 8	09:42:10 Tue 19-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-131-03 2X	09:48:39 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-01c 2X	09:52:49 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-02c 2X	09:56:58 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-03c 2X	10:01:08 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-04c 2X	10:05:17 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-05c 2X	10:09:26 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-06c 2X	10:13:34 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	MB0819D1 2X	10:17:43 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	SB0819D1 2X	10:21:52 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	
	08-136-01d 2X	10:27:43 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819	

QC Std 6	10:31:54 Tue 19-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 7	10:36:04 Tue 19-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 8	10:40:15 Tue 19-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d D 2X	10:45:15 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d L 10X	10:49:26 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d MS 2X	10:53:35 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d MSD 2X	10:57:43 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-02d 2X	11:01:52 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-03d 2X	11:06:01 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-04d 2X	11:10:11 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-05d 2X	11:14:19 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-06d 2X	11:18:28 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-139-01c 2X wm1	11:22:36 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 6	11:26:45 Tue 19-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 7	11:30:56 Tue 19-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 8	11:35:06 Tue 19-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-01d 10X D1	11:38:26 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-02d 10X 〃	11:42:36 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-03d 10X 〃	11:46:45 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-01c 10X wm1	11:50:54 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-02c 10X 〃	11:55:03 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-03c 10X 〃	11:59:12 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 6	12:03:22 Tue 19-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 7	12:07:32 Tue 19-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 8	12:11:42 Tue 19-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819

SmartTune Wizard - Details

Optimization Details

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

Optimization Status

Start Time: 8/19/2025 7:19:25 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 (0.7/0.692)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.694)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.695)
		Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.717)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.716)
[Passed] Optimum value(s): N/A

End Time: 8/19/2025 7:19:54 AM

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Tuesday, August 19, 2025 07:23:28
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\Y250819A\[STD] Performance Check.008
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	55632.3	55632.316	327.444	0.6	Standard
	In	114.9	321629.4	321629.428	477.688	0.1	Standard
	U	238.1	316445.6	316445.592	1016.016	0.3	Standard
Ce	CeO	155.9	8121.8	0.024	0.000	0.7	Standard
Ce	Ce++	70.0	8268.5	0.024	0.000	1.9	Standard
	Bkgd	220.5	0.4	0.367	0.361	98.5	Standard
	Ce	139.9	341987.2	341987.154	2755.325	0.8	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.99	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
-1825.00	Standard - Analog Stage
1500.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-8.00	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
0.99	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: 8/19/2025 7:23:28 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): 55632.32
    Obtained Intensity (In 115): 321629.43
    Obtained Intensity (U 238): 316445.59
    Obtained Intensity (Bkgd 220.5): 0.37
    Obtained Formula (Ce++ 70 ÷ Ce 140): 0.024 (=8268.46 ÷ 341987.15)
    Obtained Formula (CeO 156 ÷ Ce 140): 0.024 (=8121.84 ÷ 341987.15)
    Obtained RSD (Li 7): 0.0059
    Obtained RSD (In 115): 0.0015
    Obtained RSD (U 238): 0.0032

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

End Time: 8/19/2025 7:25:33 AM

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni -1	59.933	Weighted Linear	0.01	0.00	0.999278
As	74.922	Weighted Linear	0.01	-0.00	0.999382
As-1	74.922	Weighted Linear	0.01	0.00	0.999485
Se	76.920	Weighted Linear	0.00	0.00	0.999501
Se -1	77.917	Weighted Linear	0.00	-0.00	0.998451
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	0.00	0.999596
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.06	-0.00	0.999621
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Ni -3	57.935	Weighted Linear	0.10	0.00	0.999437
Ni -4	59.933	Weighted Linear	0.04	0.00	0.999259
Ni -5	61.928	Weighted Linear	0.01	0.00	0.999178
As-2	74.922	Weighted Linear	0.01	0.00	0.999354
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	71.922	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	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: Tuesday, August 19, 2025 07:43:27
Report Date/Time: Tuesday, August 19, 2025 08:27:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Blank.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	161.7	7.5				ug/L		Standard
|	As	75	13407.0	1.8				ug/L		Standard
|	As-1	75	-163.2	13.9				ug/L		Standard
|	Se	77	118.3	1.8				ug/L		Standard
|	Se -1	78	13606.5	2.0				ug/L		Standard
|	Br	79	469.7	4.2				ug/L		Standard
|	Se -2	82	34.3	11.0				ug/L		Standard
	Kr	83	34.0	30.7				ug/L		Standard
|	Ho	165	745953.5	0.6				ug/L		Standard
|	Pb	208	989.7	1.3				ug/L		Standard
|	Bi	209	414898.3	1.3				ug/L		Standard
|	Th	232	510162.7	0.5				ug/L		Standard
|	Ni -3	58	242.0	10.6				ug/L		KED
|	Ni -4	60	99.7	4.7				ug/L		KED
|	Ni -5	62	19.3	16.6				ug/L		KED
|	As-2	75	3.3	62.4				ug/L		KED
	Y-1	89	98389.3	0.3				ug/L		KED
	Rh-1	103	118370.1	0.9				ug/L		KED
|>	Ge	72	720114.9	3.3				ug/L		Standard
|>	Tb	159	850893.4	1.4				ug/L		Standard
|>	Ge-1	72	99798.7	0.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, August 19, 2025 07:46:47
Report Date/Time: Tuesday, August 19, 2025 08:27:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 1.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	1566.8	2.2				ug/L	162	Standard
|	As	75	13988.8	0.8				ug/L	13407	Standard
|	As-1	75	696.4	5.4				ug/L	-163	Standard
|	Se	77	177.0	3.5				ug/L	118	Standard
|	Se -1	78	13507.4	0.7				ug/L	13606	Standard
|	Br	79	504.0	6.7				ug/L	470	Standard
|	Se -2	82	104.3	19.0				ug/L	34	Standard
	Kr	83	29.7	12.8				ug/L	34	Standard
|	Ho	165	817085.0	0.7				ug/L	745954	Standard
|	Pb	208	11473.4	0.8	**0.1931**	0.001	0.4	ug/L	990	Standard
|	Bi	209	457844.7	0.2				ug/L	414898	Standard
|	Th	232	580714.0	1.1				ug/L	510163	Standard
|	Ni -3	58	2306.6	0.8	**0.1451**	0.002	1.6	ug/L	242	KED
|	Ni -4	60	981.0	2.5	**0.1243**	0.006	4.6	ug/L	100	KED
|	Ni -5	62	154.3	6.1	**0.1435**	0.015	10.6	ug/L	19	KED
|	As-2	75	156.0	5.1	**0.1949**	0.011	5.8	ug/L	3	KED
	Y-1	89	109486.7	1.1				ug/L	98389	KED
	Rh-1	103	131270.7	0.5				ug/L	118370	KED
|>	Ge	72	777443.8	1.2				ug/L	720115	Standard
|>	Tb	159	952837.3	0.8				ug/L	850893	Standard
|>	Ge-1	72	110516.8	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, August 19, 2025 07:50:08
Report Date/Time: Tuesday, August 19, 2025 08:27:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 2.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	4004.9	1.9				ug/L	162	Standard
|	As	75	14952.6	1.0				ug/L	13407	Standard
|	As-1	75	1944.0	2.7	**0.5000**	0.014	2.8	ug/L	-163	Standard
|	Se	77	251.7	5.6				ug/L	118	Standard
|	Se -1	78	13534.4	1.0				ug/L	13606	Standard
|	Br	79	484.0	8.1				ug/L	470	Standard
|	Se -2	82	226.3	10.0				ug/L	34	Standard
	Kr	83	30.7	29.6				ug/L	34	Standard
|	Ho	165	760216.8	1.9				ug/L	745954	Standard
|	Pb	208	28033.3	1.2	**0.5100**	0.002	0.5	ug/L	990	Standard
|	Bi	209	428260.7	0.8				ug/L	414898	Standard
|	Th	232	535359.9	1.1				ug/L	510163	Standard
|	Ni -3	58	5820.0	1.0	**0.4956**	0.009	1.8	ug/L	242	KED
|	Ni -4	60	2486.2	0.3	**0.4946**	0.003	0.6	ug/L	100	KED
|	Ni -5	62	361.3	1.2	**0.4926**	0.005	1.1	ug/L	19	KED
|	As-2	75	366.3	4.0	**0.5220**	0.020	3.8	ug/L	3	KED
	Y-1	89	101370.1	0.5				ug/L	98389	KED
	Rh-1	103	121342.2	1.0				ug/L	118370	KED
|>	Ge	72	714196.8	0.9				ug/L	720115	Standard
|>	Tb	159	884358.4	1.5				ug/L	850893	Standard
|>	Ge-1	72	102600.5	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, August 19, 2025 07:53:28
Report Date/Time: Tuesday, August 19, 2025 08:27:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 3.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	14686.9	1.1	**2.0000**	0.019	1.0	ug/L	162	Standard
|	**As**	75	20574.3	1.2	**2.0000**	0.066	3.3	ug/L	13407	Standard
|	**As-1**	75	7754.1	0.2	**1.9694**	0.012	0.6	ug/L	-163	Standard
|	**Se**	77	633.7	1.6	**2.0000**	0.031	1.5	ug/L	118	Standard
|	**Se -1**	78	14507.0	1.5				ug/L	13606	Standard
|	**Br**	79	498.0	4.4				ug/L	470	Standard
|	**Se -2**	82	683.3	1.3	**2.0000**	0.018	0.9	ug/L	34	Standard
	Kr	83	29.0	15.0				ug/L	34	Standard
|	**Ho**	165	721366.5	1.0				ug/L	745954	Standard
|	**Pb**	208	101717.7	0.2	**2.0014**	0.023	1.1	ug/L	990	Standard
|	**Bi**	209	411074.2	0.3				ug/L	414898	Standard
|	**Th**	232	509879.4	0.3				ug/L	510163	Standard
|	**Ni -3**	58	21602.9	0.2	**2.1828**	0.009	0.4	ug/L	242	KED
|	**Ni -4**	60	9340.1	0.7	**2.1705**	0.024	1.1	ug/L	100	KED
|	**Ni -5**	62	1380.7	1.7	**2.1646**	0.032	1.5	ug/L	19	KED
|	**As-2**	75	1364.1	3.5	**2.0392**	0.067	3.3	ug/L	3	KED
	Y-1	89	98362.8	0.6				ug/L	98389	KED
	Rh-1	103	118222.5	1.1				ug/L	118370	KED
|>	**Ge**	72	690579.8	0.5				ug/L	720115	Standard
|>	**Tb**	159	815162.5	0.9				ug/L	850893	Standard
|>	**Ge-1**	72	100824.5	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, August 19, 2025 07:56:49
Report Date/Time: Tuesday, August 19, 2025 08:27:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 4.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	35311.3	0.8	4.9520	0.060	1.2	ug/L	162	Standard
|	As	75	31647.9	1.0	4.8957	0.023	0.5	ug/L	13407	Standard
|	As-1	75	19310.2	1.7	4.9219	0.048	1.0	ug/L	-163	Standard
|	Se	77	1342.1	3.5	4.8932	0.149	3.0	ug/L	118	Standard
|	Se -1	78	16570.6	0.8	5.0000	0.103	2.1	ug/L	13606	Standard
|	Br	79	458.3	5.5				ug/L	470	Standard
|	Se -2	82	1685.4	3.1	5.1014	0.127	2.5	ug/L	34	Standard
	Kr	83	32.7	3.5				ug/L	34	Standard
|	Ho	165	695385.6	1.0				ug/L	745954	Standard
|	Pb	208	247052.5	1.0	4.9691	0.111	2.2	ug/L	990	Standard
|	Bi	209	409103.5	0.4				ug/L	414898	Standard
|	Th	232	509070.1	1.2				ug/L	510163	Standard
|	Ni -3	58	52587.1	0.8	5.3947	0.035	0.6	ug/L	242	KED
|	Ni -4	60	23181.1	0.7	5.4458	0.036	0.7	ug/L	100	KED
|	Ni -5	62	3359.1	2.2	5.3259	0.125	2.4	ug/L	19	KED
|	As-2	75	3331.7	1.8	5.0211	0.069	1.4	ug/L	3	KED
	Y-1	89	99359.4	1.2				ug/L	98389	KED
	Rh-1	103	118605.4	1.0				ug/L	118370	KED
|>	Ge	72	687523.9	0.7				ug/L	720115	Standard
|>	Tb	159	802452.4	2.6				ug/L	850893	Standard
|>	Ge-1	72	101235.8	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Tuesday, August 19, 2025 08:00:09
Report Date/Time: Tuesday, August 19, 2025 08:27:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 5.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	132687.0	0.7	**19.8631**	0.089	0.4	ug/L	162	Standard
|	As	75	86665.2	2.1	**20.0762**	0.575	2.9	ug/L	13407	Standard
|	As-1	75	74804.6	2.2	**19.9896**	0.526	2.6	ug/L	-163	Standard
|	Se	77	4951.2	1.8	**20.2328**	0.354	1.8	ug/L	118	Standard
|	Se -1	78	27889.5	1.3	**20.7906**	0.409	2.0	ug/L	13606	Standard
|	Br	79	416.3	2.5				ug/L	470	Standard
|	Se -2	82	6330.7	0.2	**20.4296**	0.233	1.1	ug/L	34	Standard
	Kr	83	35.7	1.6				ug/L	34	Standard
|	Ho	165	669439.7	1.5				ug/L	745954	Standard
|	Pb	208	942755.8	1.8	**19.7835**	0.441	2.2	ug/L	990	Standard
|	Bi	209	385678.2	0.5				ug/L	414898	Standard
|	Th	232	480972.4	0.4				ug/L	510163	Standard
|	Ni -3	58	199630.3	0.6	**21.3063**	0.046	0.2	ug/L	242	KED
|	Ni -4	60	86854.2	1.1	**21.2288**	0.126	0.6	ug/L	100	KED
|	Ni -5	62	12862.8	1.5	**21.2368**	0.422	2.0	ug/L	19	KED
|	As-2	75	12777.0	0.3	**20.2656**	0.056	0.3	ug/L	3	KED
	Y-1	89	93565.5	1.5				ug/L	98389	KED
	Rh-1	103	109566.0	2.0				ug/L	118370	KED
| >	Ge	72	651812.6	1.1				ug/L	720115	Standard
| >	Tb	159	769293.4	0.6				ug/L	850893	Standard
| >	Ge-1	72	95978.0	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	Tb	159		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Tuesday, August 19, 2025 08:03:30
Report Date/Time: Tuesday, August 19, 2025 08:27:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 6.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	267604.7	1.1	39.6817	0.303	0.8	ug/L	162	Standard
|	As	75	160473.5	1.6	39.4778	0.462	1.2	ug/L	13407	Standard
|	As-1	75	149125.2	1.6	39.4308	0.428	1.1	ug/L	-163	Standard
|	Se	77	9921.8	0.6	40.2964	0.500	1.2	ug/L	118	Standard
|	Se -1	78	43313.9	1.3	40.1956	0.462	1.2	ug/L	13606	Standard
|	Br	79	428.7	4.2				ug/L	470	Standard
|	Se -2	82	12606.9	0.8	40.1886	0.115	0.3	ug/L	34	Standard
	Kr	83	39.3	12.8				ug/L	34	Standard
|	Ho	165	664111.7	1.9				ug/L	745954	Standard
|	Pb	208	1878647.3	0.4	39.6106	0.592	1.5	ug/L	990	Standard
|	Bi	209	387241.0	1.1				ug/L	414898	Standard
|	Th	232	487042.7	1.2				ug/L	510163	Standard
|	Ni -3	58	397457.8	0.7	40.8476	0.049	0.1	ug/L	242	KED
|	Ni -4	60	171940.2	0.8	40.5681	0.039	0.1	ug/L	100	KED
|	Ni -5	62	25385.5	0.7	40.5654	0.610	1.5	ug/L	19	KED
|	As-2	75	25789.6	1.5	40.1649	0.296	0.7	ug/L	3	KED
	Y-1	89	95274.1	2.1				ug/L	98389	KED
	Rh-1	103	111702.4	1.4				ug/L	118370	KED
|>	Ge	72	661092.6	0.6				ug/L	720115	Standard
|>	Tb	159	760286.6	1.7				ug/L	850893	Standard
|>	Ge-1	72	96650.5	0.8				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Tuesday, August 19, 2025 08:06:50
Report Date/Time: Tuesday, August 19, 2025 08:27:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 7.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	646826.0	1.3	**93.4326**	0.161	0.2	ug/L	162	Standard
|	**As**	75	379478.3	0.7	**94.6182**	0.841	0.9	ug/L	13407	Standard
|	**As-1**	75	370799.4	0.9	**94.7385**	0.647	0.7	ug/L	-163	Standard
|	**Se**	77	24130.0	1.3	**95.4303**	1.088	1.1	ug/L	118	Standard
|	**Se -1**	78	88223.6	1.0	**95.3048**	0.536	0.6	ug/L	13606	Standard
|	**Br**	79	432.7	2.7				ug/L	470	Standard
|	**Se -2**	82	31342.7	1.9	**96.5638**	0.487	0.5	ug/L	34	Standard
	Kr	83	47.0	14.7				ug/L	34	Standard
|	**Ho**	165	702207.6	1.7				ug/L	745954	Standard
|	**Pb**	208	4682232.0	1.0	**95.5570**	1.742	1.8	ug/L	990	Standard
|	**Bi**	209	402802.6	0.6				ug/L	414898	Standard
|	**Th**	232	508314.1	0.5				ug/L	510163	Standard
|	**Ni -3**	58	966218.3	0.6	**94.1361**	0.431	0.5	ug/L	242	KED
|	**Ni -4**	60	416537.6	0.8	**93.3055**	0.761	0.8	ug/L	100	KED
|	**Ni -5**	62	61100.1	1.0	**93.0071**	0.710	0.8	ug/L	19	KED
|	**As-2**	75	62793.0	0.6	**94.2628**	0.509	0.5	ug/L	3	KED
	Y-1	89	98949.5	0.6				ug/L	98389	KED
	Rh-1	103	116355.3	0.7				ug/L	118370	KED
|>	**Ge**	72	692903.1	1.4				ug/L	720115	Standard
|>	**Tb**	159	798392.5	0.9				ug/L	850893	Standard
|>	**Ge-1**	72	101000.4	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, August 19, 2025 08:11:00
Report Date/Time: Tuesday, August 19, 2025 08:27:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 1.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	338416.1	1.9	46.6233	0.261	0.6	ug/L	162	Standard
|	As	75	203124.6	0.5	46.7561	0.537	1.1	ug/L	13407	Standard
|	As-1	75	193174.7	0.7	47.1299	0.361	0.8	ug/L	-163	Standard
|	Se	77	12435.4	1.2	46.7062	0.888	1.9	ug/L	118	Standard
|	Se -1	78	51509.0	1.2	45.8634	1.610	3.5	ug/L	13606	Standard
|	Br	79	435.0	5.8				ug/L	470	Standard
|	Se -2	82	16383.4	2.0	48.1002	1.230	2.6	ug/L	34	Standard
	Kr	83	39.3	15.3				ug/L	34	Standard
|	Ho	165	759448.1	0.6				ug/L	745954	Standard
|	Pb	208	2523095.0	1.4	47.1576	1.337	2.8	ug/L	990	Standard
|	Bi	209	430709.3	0.7				ug/L	414898	Standard
|	Th	232	536961.6	1.2				ug/L	510163	Standard
|	Ni -3	58	506057.9	0.3	47.2631	0.278	0.6	ug/L	242	KED
|	Ni -4	60	219214.1	0.2	47.0764	0.183	0.4	ug/L	100	KED
|	Ni -5	62	32058.9	0.4	46.7889	0.392	0.8	ug/L	19	KED
|	As-2	75	32653.3	1.1	47.0091	0.284	0.6	ug/L	3	KED
	Y-1	89	104644.9	0.8				ug/L	98389	KED
	Rh-1	103	122289.2	0.4				ug/L	118370	KED
|>	Ge	72	725938.3	1.5				ug/L	720115	Standard
|>	Tb	159	871976.7	1.9				ug/L	850893	Standard
|>	Ge-1	72	105294.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	93.247	
|	As	75	93.512	
|	As-1	75	94.260	
|	Se	77	93.412	
|	Se -1	78	91.727	
|	Br	79		
|	Se -2	82	96.200	
	Kr	83		
|	Ho	165		
|	Pb	208	94.315	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.526	
|	Ni -4	60	94.153	
|	Ni -5	62	93.578	
|	As-2	75	94.018	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		100.809
|>	Tb	159		102.478
|>	Ge-1	72		105.507

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, August 19, 2025 08:29:27
Report Date/Time: Tuesday, August 19, 2025 08:31:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 2.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	199.0	10.1	-0.0390	0.002	4.9	ug/L	162	Standard
|	As	75	12866.1	2.4	-0.0638	0.049	77.1	ug/L	13407	Standard
|	As-1	75	-14.4	249.4	0.0344	0.009	26.1	ug/L	-163	Standard
|	Se	77	134.7	2.6	0.0404	0.006	15.5	ug/L	118	Standard
|	Se -1	78	13013.3	2.2	-0.5984	0.248	41.5	ug/L	13606	Standard
|	Br	79	446.7	6.7				ug/L	470	Standard
|	Se -2	82	71.3	4.5	0.0360	0.012	34.2	ug/L	34	Standard
	Kr	83	37.3	10.1				ug/L	34	Standard
|	Ho	165	798966.8	2.5				ug/L	745954	Standard
|	Pb	208	3196.8	9.5	0.0566	0.004	7.3	ug/L	990	Standard
|	Bi	209	437626.2	0.8				ug/L	414898	Standard
|	Th	232	510685.6	0.7				ug/L	510163	Standard
|	Ni -3	58	262.8	6.3	-0.0348	0.002	5.7	ug/L	242	KED
|	Ni -4	60	108.3	2.3	-0.0267	0.001	2.2	ug/L	100	KED
|	Ni -5	62	19.0	26.3	-0.0152	0.008	55.2	ug/L	19	KED
|	As-2	75	17.7	6.5	0.0104	0.002	20.3	ug/L	3	KED
	Y-1	89	95946.1	0.7				ug/L	98389	KED
	Rh-1	103	115593.5	0.5				ug/L	118370	KED
|>	Ge	72	722636.8	3.2				ug/L	720115	Standard
|>	Tb	159	930603.0	2.8				ug/L	850893	Standard
|>	Ge-1	72	94190.2	0.8				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		100.350
|>	Tb	159		109.368
|>	Ge-1	72		94.380

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 08:33:38
Report Date/Time: Tuesday, August 19, 2025 08:35:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	246032.7	1.1	**36.0855**	1.549	4.3	ug/L	162	Standard
|	As	75	168531.2	2.4	**40.9000**	0.439	1.1	ug/L	13407	Standard
|	As-1	75	157485.0	2.5	**40.8910**	0.375	0.9	ug/L	-163	Standard
|	Se	77	10594.3	4.2	**42.2790**	0.451	1.1	ug/L	118	Standard
|	Se -1	78	45915.0	2.2	**42.6538**	0.783	1.8	ug/L	13606	Standard
|	Br	79	440.7	1.5				ug/L	470	Standard
|	Se -2	82	13750.0	2.7	**42.9345**	0.542	1.3	ug/L	34	Standard
	Kr	83	37.3	21.8				ug/L	34	Standard
|	Ho	165	731834.3	2.0				ug/L	745954	Standard
|	Pb	208	1947048.3	1.1	**38.4150**	0.085	0.2	ug/L	990	Standard
|	Bi	209	404926.0	2.9				ug/L	414898	Standard
|	Th	232	481739.5	0.8				ug/L	510163	Standard
|	Ni -3	58	359094.1	0.5	**38.0373**	0.252	0.7	ug/L	242	KED
|	Ni -4	60	156199.6	0.5	**38.0472**	0.299	0.8	ug/L	100	KED
|	Ni -5	62	23068.3	0.3	**38.1878**	0.162	0.4	ug/L	19	KED
|	As-2	75	24314.0	0.1	**39.7112**	0.151	0.4	ug/L	3	KED
	Y-1	89	93656.7	0.2				ug/L	98389	KED
	Rh-1	103	110500.1	0.7				ug/L	118370	KED
|>	Ge	72	682285.3	3.4				ug/L	720115	Standard
|>	Tb	159	825762.4	0.9				ug/L	850893	Standard
|>	Ge-1	72	92808.2	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	90.214	
|	As	75	102.250	
|	As-1	75	102.227	
|	Se	77	105.698	
|	Se -1	78	106.635	
|	Br	79		
|	Se -2	82	107.336	
	Kr	83		
|	Ho	165		
|	Pb	208	96.037	
|	Bi	209		
|	Th	232		
|	Ni -3	58	95.093	
|	Ni -4	60	95.118	
|	Ni -5	62	95.469	
|	As-2	75	99.278	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		94.747
|>	Tb	159		97.047
|>	Ge-1	72		92.995

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 08:37:48
Report Date/Time: Tuesday, August 19, 2025 08:39:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	119179.4	0.4	**18.0853**	0.648	3.6	ug/L	162	Standard
|	As	75	86902.8	4.1	**20.3461**	0.383	1.9	ug/L	13407	Standard
|	As-1	75	75897.0	4.0	**20.4431**	0.327	1.6	ug/L	-163	Standard
|	Se	77	5093.9	3.1	**20.8430**	0.196	0.9	ug/L	118	Standard
|	Se -1	78	28014.1	2.6	**20.9502**	0.541	2.6	ug/L	13606	Standard
|	Br	79	406.0	4.9				ug/L	470	Standard
|	Se -2	82	6715.2	1.8	**21.6564**	0.470	2.2	ug/L	34	Standard
	Kr	83	41.0	10.6				ug/L	34	Standard
|	Ho	165	687471.3	2.4				ug/L	745954	Standard
|	Pb	208	928273.4	2.7	**19.0714**	0.040	0.2	ug/L	990	Standard
|	Bi	209	377533.2	2.3				ug/L	414898	Standard
|	Th	232	452784.8	2.2				ug/L	510163	Standard
|	Ni -3	58	178565.8	0.2	**19.2788**	0.101	0.5	ug/L	242	KED
|	Ni -4	60	77544.9	0.5	**19.2564**	0.116	0.6	ug/L	100	KED
|	Ni -5	62	11495.3	1.0	**19.4035**	0.116	0.6	ug/L	19	KED
|	As-2	75	12099.8	1.6	**20.1662**	0.370	1.8	ug/L	3	KED
	Y-1	89	91306.2	0.9				ug/L	98389	KED
	Rh-1	103	108012.5	1.4				ug/L	118370	KED
|>	Ge	72	658229.0	4.0				ug/L	720115	Standard
|>	Tb	159	793000.8	2.5				ug/L	850893	Standard
|>	Ge-1	72	90912.0	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	90.427	
|	As	75	101.730	
|	As-1	75	102.216	
|	Se	77	104.215	
|	Se -1	78	104.751	
|	Br	79		
|	Se -2	82	108.282	
	Kr	83		
|	Ho	165		
|	Pb	208	95.357	
|	Bi	209		
|	Th	232		
|	Ni -3	58	96.394	
|	Ni -4	60	96.282	
|	Ni -5	62	97.017	
|	As-2	75	100.831	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		91.406
|>	Tb	159		93.196
|>	Ge-1	72		91.095

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 08:41:58
Report Date/Time: Tuesday, August 19, 2025 08:43:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	146.3	1.0	-0.0443	0.001	2.6	ug/L	162	Standard
|	As	75	12116.7	2.3	0.0366	0.061	165.5	ug/L	13407	Standard
|	As-1	75	-39.3	32.2	0.0274	0.004	13.8	ug/L	-163	Standard
|	Se	77	110.3	7.3	-0.0126	0.024	194.1	ug/L	118	Standard
|	Se -1	78	12243.2	2.1	-0.1158	0.325	280.9	ug/L	13606	Standard
|	Br	79	396.0	4.6				ug/L	470	Standard
|	Se -2	82	52.3	2.9	-0.0055	0.011	196.7	ug/L	34	Standard
	Kr	83	36.7	4.2				ug/L	34	Standard
|	Ho	165	669136.7	2.0				ug/L	745954	Standard
|	Pb	208	1178.0	7.5	0.0255	0.001	5.6	ug/L	990	Standard
|	Bi	209	377512.4	3.1				ug/L	414898	Standard
|	Th	232	447233.6	1.7				ug/L	510163	Standard
|	Ni -3	58	215.1	6.8	-0.0393	0.002	4.4	ug/L	242	KED
|	Ni -4	60	84.3	4.9	-0.0321	0.001	3.8	ug/L	100	KED
|	Ni -5	62	14.0	7.1	-0.0230	0.002	7.5	ug/L	19	KED
|	As-2	75	8.0	37.5	-0.0050	0.005	97.2	ug/L	3	KED
	Y-1	89	92502.5	0.7				ug/L	98389	KED
	Rh-1	103	108842.4	0.5				ug/L	118370	KED
|>	Ge	72	659920.7	4.1				ug/L	720115	Standard
|>	Tb	159	773404.9	1.8				ug/L	850893	Standard
|>	Ge-1	72	92311.6	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		91.641
|>	Tb	159		90.893
|>	Ge-1	72		92.498

Quantitative Analysis - Summary Report

Sample ID: MB0819WM1 2X

Sample Date/Time: Tuesday, August 19, 2025 08:51:09
Report Date/Time: Tuesday, August 19, 2025 08:52:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\MB0819WM1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	315.3	9.0	-0.0159	0.005	33.7	ug/L	162	Standard
|	As	75	12047.4	1.1	0.2044	0.024	11.5	ug/L	13407	Standard
|	As-1	75	-61.1	40.3	0.0207	0.007	34.0	ug/L	-163	Standard
|	Se	77	88.0	17.8	-0.0836	0.075	89.6	ug/L	118	Standard
|	Se -1	78	12157.8	1.1	0.6939	0.109	15.7	ug/L	13606	Standard
|	Br	79	356.3	9.0				ug/L	470	Standard
|	Se -2	82	37.3	17.0	-0.0474	0.021	44.7	ug/L	34	Standard
	Kr	83	31.7	17.4				ug/L	34	Standard
|	Ho	165	637384.7	1.8				ug/L	745954	Standard
|	Pb	208	1442.7	0.8	0.0325	0.000	1.3	ug/L	990	Standard
|	Bi	209	361721.3	1.2				ug/L	414898	Standard
|	Th	232	433359.4	1.2				ug/L	510163	Standard
|	Ni -3	58	457.9	5.2	-0.0121	0.003	20.9	ug/L	242	KED
|	Ni -4	60	192.0	7.0	-0.0044	0.003	66.6	ug/L	100	KED
|	Ni -5	62	26.3	17.1	-0.0012	0.007	587.3	ug/L	19	KED
|	As-2	75	5.7	73.5	-0.0086	0.007	82.2	ug/L	3	KED
	Y-1	89	90805.7	0.8				ug/L	98389	KED
	Rh-1	103	103583.9	0.5				ug/L	118370	KED
|>	Ge	72	623983.2	1.8				ug/L	720115	Standard
|>	Tb	159	740068.6	1.5				ug/L	850893	Standard
|>	Ge-1	72	89836.9	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		86.651
|>	Tb	159		86.975
|>	Ge-1	72		90.018

Quantitative Analysis - Summary Report

Sample ID: SB0819WM1 2X

Sample Date/Time: Tuesday, August 19, 2025 08:55:19
Report Date/Time: Tuesday, August 19, 2025 08:57:07
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\SB0819WM1 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	306467.8	0.3	44.9687	0.192	0.4	ug/L	162	Standard
|	As	75	194337.0	0.3	47.7013	0.345	0.7	ug/L	13407	Standard
|	As-1	75	184512.2	0.1	47.9419	0.235	0.5	ug/L	-163	Standard
|	Se	77	11974.0	1.1	47.9058	0.668	1.4	ug/L	118	Standard
|	Se -1	78	49229.0	1.3	46.9660	1.042	2.2	ug/L	13606	Standard
|	Br	79	400.0	3.1				ug/L	470	Standard
|	Se -2	82	15534.4	0.5	48.5707	0.409	0.8	ug/L	34	Standard
	Kr	83	40.0	13.9				ug/L	34	Standard
|	Ho	165	712755.5	3.5				ug/L	745954	Standard
|	Pb	208	2324727.3	0.4	46.0495	0.294	0.6	ug/L	990	Standard
|	Bi	209	401335.3	0.9				ug/L	414898	Standard
|	Th	232	481635.1	0.2				ug/L	510163	Standard
|	Ni -3	58	466523.7	0.6	45.3169	0.387	0.9	ug/L	242	KED
|	Ni -4	60	203953.3	0.8	45.5552	0.442	1.0	ug/L	100	KED
|	Ni -5	62	29828.8	0.4	45.2791	0.322	0.7	ug/L	19	KED
|	As-2	75	31536.8	0.5	47.2248	0.185	0.4	ug/L	3	KED
	Y-1	89	101952.2	0.4				ug/L	98389	KED
	Rh-1	103	118350.6	0.2				ug/L	118370	KED
|>	Ge	72	681594.1	0.6				ug/L	720115	Standard
|>	Tb	159	822525.8	1.0				ug/L	850893	Standard
|>	Ge-1	72	101232.1	0.3				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		94.651
|>	Tb	159		96.666
|>	Ge-1	72		101.436

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b 2X

Sample Date/Time: Tuesday, August 19, 2025 09:00:29
Report Date/Time: Tuesday, August 19, 2025 09:02:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3040.3	1.8	0.4309	0.008	1.8	ug/L	162	Standard
|	As	75	14366.7	1.9	0.9480	0.059	6.2	ug/L	13407	Standard
|	As-1	75	2763.4	2.3	0.8368	0.008	0.9	ug/L	-163	Standard
|	Se	77	112.0	9.3	0.0320	0.061	190.4	ug/L	118	Standard
|	Se -1	78	11717.1	1.9	0.3925	0.234	59.6	ug/L	13606	Standard
|	Br	79	2855.6	4.5				ug/L	470	Standard
|	Se -2	82	62.0	11.2	0.0410	0.020	48.6	ug/L	34	Standard
	Kr	83	36.3	18.7				ug/L	34	Standard
|	Ho	165	583394.6	1.9				ug/L	745954	Standard
|	Pb	208	6034.5	2.7	0.1458	0.003	2.3	ug/L	990	Standard
|	Bi	209	329530.2	1.9				ug/L	414898	Standard
|	Th	232	401068.4	0.2				ug/L	510163	Standard
|	Ni -3	58	5179.9	4.2	0.4831	0.017	3.6	ug/L	242	KED
|	Ni -4	60	1964.8	2.2	0.4228	0.006	1.4	ug/L	100	KED
|	Ni -5	62	270.3	6.0	0.3983	0.024	6.0	ug/L	19	KED
|	As-2	75	511.7	2.9	0.8118	0.027	3.3	ug/L	3	KED
	Y-1	89	92812.9	1.2				ug/L	98389	KED
	Rh-1	103	104489.8	1.2				ug/L	118370	KED
|>	Ge	72	612278.7	3.1				ug/L	720115	Standard
|>	Tb	159	677467.8	0.4				ug/L	850893	Standard
|>	Ge-1	72	93510.7	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		85.025
|>	Tb	159		79.618
|>	Ge-1	72		93.699

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b D 2X

Sample Date/Time: Tuesday, August 19, 2025 09:04:39
Report Date/Time: Tuesday, August 19, 2025 09:06:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b D 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3133.0	0.9	**0.4896**	0.003	0.5	ug/L	162	Standard
|	As	75	13960.4	0.7	**1.1750**	0.029	2.4	ug/L	13407	Standard
|	As-1	75	2735.6	0.4	**0.8959**	0.011	1.2	ug/L	-163	Standard
|	Se	77	116.7	7.4	**0.0964**	0.039	40.8	ug/L	118	Standard
|	Se -1	78	11323.2	0.8	**1.2038**	0.110	9.1	ug/L	13606	Standard
|	Br	79	2858.3	1.9				ug/L	470	Standard
|	Se -2	82	55.3	7.3	**0.0345**	0.017	48.4	ug/L	34	Standard
	Kr	83	26.3	4.4				ug/L	34	Standard
|	Ho	165	547080.7	0.8				ug/L	745954	Standard
|	Pb	208	5826.8	0.5	**0.1504**	0.002	1.7	ug/L	990	Standard
|	Bi	209	316025.8	1.5				ug/L	414898	Standard
|	Th	232	386721.8	1.7				ug/L	510163	Standard
|	Ni -3	58	5284.0	1.6	**0.5203**	0.014	2.6	ug/L	242	KED
|	Ni -4	60	2030.8	0.2	**0.4620**	0.006	1.3	ug/L	100	KED
|	Ni -5	62	287.0	8.4	**0.4482**	0.045	10.0	ug/L	19	KED
|	As-2	75	520.7	5.6	**0.8656**	0.038	4.4	ug/L	3	KED
	Y-1	89	87666.2	0.5				ug/L	98389	KED
	Rh-1	103	98153.7	0.7				ug/L	118370	KED
|>	Ge	72	564284.1	1.0				ug/L	720115	Standard
|>	Tb	159	634491.6	2.2				ug/L	850893	Standard
|>	Ge-1	72	89323.7	1.3				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.360
|>	Tb	159		74.568
|>	Ge-1	72		89.504

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b L 10X

Sample Date/Time: Tuesday, August 19, 2025 09:08:49
Report Date/Time: Tuesday, August 19, 2025 09:10:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b L 10X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	891.4	1.7	0.0830	0.003	3.8	ug/L	162	Standard
|	As	75	11782.2	1.3	0.2816	0.064	22.8	ug/L	13407	Standard
|	As-1	75	467.6	12.8	0.1767	0.019	10.5	ug/L	-163	Standard
|	Se	77	95.7	7.0	-0.0314	0.033	105.5	ug/L	118	Standard
|	Se -1	78	11372.9	0.8	0.3159	0.220	69.6	ug/L	13606	Standard
|	Br	79	835.0	0.9				ug/L	470	Standard
|	Se -2	82	39.7	2.9	-0.0332	0.003	10.4	ug/L	34	Standard
	Kr	83	32.3	4.7				ug/L	34	Standard
|	Ho	165	575372.9	1.0				ug/L	745954	Standard
|	Pb	208	2311.1	2.4	0.0575	0.002	3.6	ug/L	990	Standard
|	Bi	209	341384.9	1.2				ug/L	414898	Standard
|	Th	232	417637.3	0.6				ug/L	510163	Standard
|	Ni -3	58	1567.9	6.0	0.1051	0.008	7.9	ug/L	242	KED
|	Ni -4	60	576.7	8.0	0.0889	0.012	13.4	ug/L	100	KED
|	Ni -5	62	84.3	14.3	0.0946	0.022	22.9	ug/L	19	KED
|	As-2	75	118.3	14.8	0.1765	0.028	15.9	ug/L	3	KED
	Y-1	89	90529.3	1.2				ug/L	98389	KED
	Rh-1	103	103480.8	1.6				ug/L	118370	KED
|>	Ge	72	596878.4	0.7				ug/L	720115	Standard
|>	Tb	159	663440.8	1.3				ug/L	850893	Standard
|>	Ge-1	72	92204.3	1.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.887
|>	Tb	159		77.970
|>	Ge-1	72		92.390

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b MS 2X

Sample Date/Time: Tuesday, August 19, 2025 09:12:58
Report Date/Time: Tuesday, August 19, 2025 09:14:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b MS 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	261678.6	0.4	44.6804	0.152	0.3	ug/L	162	Standard
|	As	75	168451.0	0.5	48.1436	0.543	1.1	ug/L	13407	Standard
|	As-1	75	158354.5	1.1	47.8809	0.707	1.5	ug/L	-163	Standard
|	Se	77	10234.3	0.9	47.6431	0.272	0.6	ug/L	118	Standard
|	Se -1	78	42756.2	0.6	47.6414	0.704	1.5	ug/L	13606	Standard
|	Br	79	2729.6	0.8				ug/L	470	Standard
|	Se -2	82	12878.5	1.8	46.8526	1.038	2.2	ug/L	34	Standard
	Kr	83	30.0	5.8				ug/L	34	Standard
|	Ho	165	561271.2	2.1				ug/L	745954	Standard
|	Pb	208	1838527.5	1.3	45.8239	0.848	1.9	ug/L	990	Standard
|	Bi	209	321782.3	1.1				ug/L	414898	Standard
|	Th	232	392469.9	1.6				ug/L	510163	Standard
|	Ni -3	58	416388.9	1.5	44.1143	0.457	1.0	ug/L	242	KED
|	Ni -4	60	181625.0	0.7	44.2481	0.139	0.3	ug/L	100	KED
|	Ni -5	62	26674.6	1.4	44.1631	0.362	0.8	ug/L	19	KED
|	As-2	75	28992.4	1.8	47.3531	0.608	1.3	ug/L	3	KED
	Y-1	89	91746.0	1.5				ug/L	98389	KED
	Rh-1	103	102165.4	0.4				ug/L	118370	KED
|>	Ge	72	585731.7	0.7				ug/L	720115	Standard
|>	Tb	159	653722.5	0.6				ug/L	850893	Standard
|>	Ge-1	72	92808.2	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		81.339
|>	Tb	159		76.828
|>	Ge-1	72		92.995

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b MSD 2X

Sample Date/Time: Tuesday, August 19, 2025 09:17:08
Report Date/Time: Tuesday, August 19, 2025 09:18:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b MSD 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	267965.0	0.9	45.9582	0.983	2.1	ug/L	162	Standard
|	As	75	171464.3	1.9	49.2805	0.251	0.5	ug/L	13407	Standard
|	As-1	75	161715.9	1.5	49.1016	0.296	0.6	ug/L	-163	Standard
|	Se	77	10364.1	1.7	48.4612	0.609	1.3	ug/L	118	Standard
|	Se -1	78	44176.6	3.1	50.0370	1.194	2.4	ug/L	13606	Standard
|	Br	79	2824.3	3.2				ug/L	470	Standard
|	Se -2	82	13574.4	1.3	49.6022	0.256	0.5	ug/L	34	Standard
	Kr	83	30.0	16.7				ug/L	34	Standard
|	Ho	165	583812.5	0.8				ug/L	745954	Standard
|	Pb	208	1920539.1	0.8	46.6223	1.082	2.3	ug/L	990	Standard
|	Bi	209	330157.0	0.7				ug/L	414898	Standard
|	Th	232	401667.6	0.6				ug/L	510163	Standard
|	Ni -3	58	415924.9	0.7	44.9156	0.145	0.3	ug/L	242	KED
|	Ni -4	60	181530.4	0.6	45.0770	0.054	0.1	ug/L	100	KED
|	Ni -5	62	26847.5	0.6	45.3075	0.083	0.2	ug/L	19	KED
|	As-2	75	28990.4	0.6	48.2639	0.275	0.6	ug/L	3	KED
	Y-1	89	91854.1	1.3				ug/L	98389	KED
	Rh-1	103	102709.4	2.5				ug/L	118370	KED
|>	Ge	72	583258.2	1.5				ug/L	720115	Standard
|>	Tb	159	671351.9	2.2				ug/L	850893	Standard
|>	Ge-1	72	91055.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		80.995
|>	Tb	159		78.900
|>	Ge-1	72		91.239

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b PS 2X

Sample Date/Time: Tuesday, August 19, 2025 09:21:19
Report Date/Time: Tuesday, August 19, 2025 09:23:08
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b PS 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	208516.0	1.8	**36.4274**	0.393	1.1	ug/L	162	Standard
|	As	75	138334.8	1.3	**39.9485**	0.499	1.2	ug/L	13407	Standard
|	As-1	75	128248.2	1.2	**39.6962**	0.438	1.1	ug/L	-163	Standard
|	Se	77	8357.8	2.4	**39.7468**	0.948	2.4	ug/L	118	Standard
|	Se -1	78	37061.3	0.7	**40.4213**	0.877	2.2	ug/L	13606	Standard
|	Br	79	2733.9	1.8				ug/L	470	Standard
|	Se -2	82	10639.3	1.2	**39.5936**	0.896	2.3	ug/L	34	Standard
	Kr	83	32.3	1.8				ug/L	34	Standard
|	Ho	165	573323.1	1.6				ug/L	745954	Standard
|	Pb	208	1519909.2	0.8	**37.5792**	1.207	3.2	ug/L	990	Standard
|	Bi	209	323843.4	2.3				ug/L	414898	Standard
|	Th	232	391929.0	1.1				ug/L	510163	Standard
|	Ni -3	58	328758.8	0.4	**36.0017**	0.321	0.9	ug/L	242	KED
|	Ni -4	60	142867.5	0.5	**35.9763**	0.262	0.7	ug/L	100	KED
|	Ni -5	62	21073.9	1.0	**36.0666**	0.430	1.2	ug/L	19	KED
|	As-2	75	22910.7	0.8	**38.6863**	0.142	0.4	ug/L	3	KED
	Y-1	89	89547.5	2.1				ug/L	98389	KED
	Rh-1	103	100388.9	1.1				ug/L	118370	KED
|>	Ge	72	572258.1	1.0				ug/L	720115	Standard
|>	Tb	159	659312.4	2.6				ug/L	850893	Standard
|>	Ge-1	72	89768.5	1.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
		Y-1	89		
		Rh-1	103		
|>		Ge	72		79.468
|>		Tb	159		77.485
|>		Ge-1	72		89.950

Quantitative Analysis - Summary Report

Sample ID: 08-131-01 2X

Sample Date/Time: Tuesday, August 19, 2025 09:25:30
Report Date/Time: Tuesday, August 19, 2025 09:27:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-131-01 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	57933.6	2.2	9.2134	0.379	4.1	ug/L	162	Standard
|	As	75	16118.9	2.0	1.3580	0.031	2.2	ug/L	13407	Standard
|	As-1	75	4831.9	4.4	1.4042	0.028	2.0	ug/L	-163	Standard
|	Se	77	141.7	0.8	0.1510	0.018	11.9	ug/L	118	Standard
|	Se -1	78	11454.6	1.1	-0.3356	0.224	66.7	ug/L	13606	Standard
|	Br	79	3598.5	3.2				ug/L	470	Standard
|	Se -2	82	82.7	10.3	0.1070	0.025	23.0	ug/L	34	Standard
	Kr	83	73.3	1.6				ug/L	34	Standard
|	Ho	165	612799.8	1.9				ug/L	745954	Standard
|	Pb	208	88304.7	2.8	2.0292	0.007	0.3	ug/L	990	Standard
|	Bi	209	339792.7	1.3				ug/L	414898	Standard
|	Th	232	403407.4	1.6				ug/L	510163	Standard
|	Ni -3	58	97342.3	1.4	10.1725	0.108	1.1	ug/L	242	KED
|	Ni -4	60	40582.9	1.4	9.7574	0.175	1.8	ug/L	100	KED
|	Ni -5	62	6143.3	8.3	10.0430	0.817	8.1	ug/L	19	KED
|	As-2	75	908.4	2.5	1.4528	0.037	2.6	ug/L	3	KED
	Y-1	89	116629.2	1.2				ug/L	98389	KED
	Rh-1	103	106000.2	0.6				ug/L	118370	KED
|>	Ge	72	625658.4	2.5				ug/L	720115	Standard
|>	Tb	159	709279.1	3.1				ug/L	850893	Standard
|>	Ge-1	72	93650.3	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		86.883
|>	Tb	159		83.357
|>	Ge-1	72		93.839

Quantitative Analysis - Summary Report

Sample ID: 08-131-02 2X

Sample Date/Time: Tuesday, August 19, 2025 09:29:39
Report Date/Time: Tuesday, August 19, 2025 09:31:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-131-02 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3200.0	2.7	**0.4710**	0.012	2.5	ug/L	162	Standard
|	**As**	75	11625.3	1.4	**0.2384**	0.003	1.5	ug/L	13407	Standard
|	**As-1**	75	373.1	12.7	**0.1487**	0.013	8.9	ug/L	-163	Standard
|	**Se**	77	101.7	3.5	**-0.0030**	0.023	742.4	ug/L	118	Standard
|	**Se -1**	78	11336.2	1.2	**0.2808**	0.067	23.7	ug/L	13606	Standard
|	**Br**	79	1752.8	1.8				ug/L	470	Standard
|	**Se -2**	82	49.7	9.1	**0.0028**	0.016	556.3	ug/L	34	Standard
	Kr	83	30.0	23.3				ug/L	34	Standard
|	**Ho**	165	582728.4	1.8				ug/L	745954	Standard
|	**Pb**	208	4092.6	3.0	**0.0995**	0.002	2.0	ug/L	990	Standard
|	**Bi**	209	336396.6	0.3				ug/L	414898	Standard
|	**Th**	232	400532.0	0.5				ug/L	510163	Standard
|	**Ni -3**	58	5063.8	0.9	**0.4751**	0.008	1.6	ug/L	242	KED
|	**Ni -4**	60	2092.5	3.2	**0.4577**	0.014	3.1	ug/L	100	KED
|	**Ni -5**	62	329.7	1.1	**0.5002**	0.004	0.8	ug/L	19	KED
|	**As-2**	75	88.3	4.3	**0.1263**	0.006	5.1	ug/L	3	KED
	Y-1	89	92709.2	0.5				ug/L	98389	KED
	Rh-1	103	103477.1	0.3				ug/L	118370	KED
|>	**Ge**	72	596187.3	1.4				ug/L	720115	Standard
|>	**Tb**	159	674901.2	1.2				ug/L	850893	Standard
|>	**Ge-1**	72	92795.1	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.791
|>	Tb	159		79.317
|>	Ge-1	72		92.982

Quantitative Analysis - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Tuesday, August 19, 2025 09:33:49
Report Date/Time: Tuesday, August 19, 2025 09:35:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	224987.2	0.7	**37.2030**	0.965	2.6	ug/L	162	Standard
|	**As**	75	148503.0	2.4	**40.6229**	0.187	0.5	ug/L	13407	Standard
|	**As-1**	75	137931.9	2.3	**40.3909**	0.148	0.4	ug/L	-163	Standard
|	**Se**	77	9215.3	3.2	**41.4776**	0.609	1.5	ug/L	118	Standard
|	**Se -1**	78	39983.2	2.4	**41.5911**	0.350	0.8	ug/L	13606	Standard
|	**Br**	79	414.3	10.3				ug/L	470	Standard
|	**Se -2**	82	11600.0	2.0	**40.8443**	0.363	0.9	ug/L	34	Standard
	Kr	83	32.7	22.1				ug/L	34	Standard
|	**Ho**	165	579539.2	3.6				ug/L	745954	Standard
|	**Pb**	208	1657880.6	1.8	**40.0389**	1.089	2.7	ug/L	990	Standard
|	**Bi**	209	340419.0	2.6				ug/L	414898	Standard
|	**Th**	232	404078.3	0.8				ug/L	510163	Standard
|	**Ni -3**	58	356143.0	1.5	**38.2319**	0.332	0.9	ug/L	242	KED
|	**Ni -4**	60	154427.9	0.2	**38.1227**	0.164	0.4	ug/L	100	KED
|	**Ni -5**	62	23069.6	0.8	**38.7047**	0.072	0.2	ug/L	19	KED
|	**As-2**	75	24233.9	1.6	**40.1122**	0.400	1.0	ug/L	3	KED
	Y-1	89	91118.3	0.3				ug/L	98389	KED
	Rh-1	103	102749.9	0.7				ug/L	118370	KED
|>	**Ge**	72	604836.3	2.0				ug/L	720115	Standard
|>	**Tb**	159	674806.0	2.1				ug/L	850893	Standard
|>	**Ge-1**	72	91573.9	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	93.007	
|	As	75	101.557	
|	As-1	75	100.977	
|	Se	77	103.694	
|	Se -1	78	103.978	
|	Br	79		
|	Se -2	82	102.111	
	Kr	83		
|	Ho	165		
|	Pb	208	100.097	
|	Bi	209		
|	Th	232		
|	Ni -3	58	95.580	
|	Ni -4	60	95.307	
|	Ni -5	62	96.762	
|	As-2	75	100.281	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		83.992
|>	Tb	159		79.306
|>	Ge-1	72		91.759

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 09:37:59
Report Date/Time: Tuesday, August 19, 2025 09:39:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	111458.5	1.2	**18.9652**	0.868	4.6	ug/L	162	Standard
|	**As**	75	77520.9	2.3	**20.3507**	0.349	1.7	ug/L	13407	Standard
|	**As-1**	75	67085.3	2.5	**20.2594**	0.209	1.0	ug/L	-163	Standard
|	**Se**	77	4387.3	1.2	**20.1132**	0.463	2.3	ug/L	118	Standard
|	**Se -1**	78	24678.3	2.1	**20.4827**	0.638	3.1	ug/L	13606	Standard
|	**Br**	79	365.7	4.4				ug/L	470	Standard
|	**Se -2**	82	5625.1	3.5	**20.3147**	0.336	1.7	ug/L	34	Standard
	Kr	83	34.3	21.1				ug/L	34	Standard
|	**Ho**	165	548782.3	2.1				ug/L	745954	Standard
|	**Pb**	208	795758.3	0.9	**20.1776**	0.425	2.1	ug/L	990	Standard
|	**Bi**	209	327031.9	1.6				ug/L	414898	Standard
|	**Th**	232	388079.4	0.7				ug/L	510163	Standard
|	**Ni -3**	58	178140.4	1.0	**19.4420**	0.378	1.9	ug/L	242	KED
|	**Ni -4**	60	77924.0	0.7	**19.5612**	0.349	1.8	ug/L	100	KED
|	**Ni -5**	62	11418.2	0.5	**19.4829**	0.316	1.6	ug/L	19	KED
|	**As-2**	75	12239.9	0.3	**20.6200**	0.256	1.2	ug/L	3	KED
	Y-1	89	88435.9	0.7				ug/L	98389	KED
	Rh-1	103	99003.9	0.8				ug/L	118370	KED
|>	**Ge**	72	587193.8	3.5				ug/L	720115	Standard
|>	**Tb**	159	642778.5	2.7				ug/L	850893	Standard
|>	**Ge-1**	72	89947.0	1.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	94.826	
|	As	75	101.753	
|	As-1	75	101.297	
|	Se	77	100.566	
|	Se -1	78	102.413	
|	Br	79		
|	Se -2	82	101.574	
	Kr	83		
|	Ho	165		
|	Pb	208	100.888	
|	Bi	209		
|	Th	232		
|	Ni -3	58	97.210	
|	Ni -4	60	97.806	
|	Ni -5	62	97.415	
|	As-2	75	103.100	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		81.542
|>	Tb	159		75.542
|>	Ge-1	72		90.128

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 09:42:10
Report Date/Time: Tuesday, August 19, 2025 09:43:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	190.7	8.8	**-0.0338**	0.003	9.7	ug/L	162	Standard
|	**As**	75	11101.6	2.1	**0.1577**	0.020	12.5	ug/L	13407	Standard
|	**As-1**	75	-39.4	117.7	**0.0262**	0.014	53.8	ug/L	-163	Standard
|	**Se**	77	85.3	7.4	**-0.0697**	0.028	39.7	ug/L	118	Standard
|	**Se -1**	78	11206.7	2.2	**0.4678**	0.133	28.5	ug/L	13606	Standard
|	**Br**	79	330.7	5.6				ug/L	470	Standard
|	**Se -2**	82	42.3	21.4	**-0.0195**	0.036	185.4	ug/L	34	Standard
	Kr	83	29.3	12.0				ug/L	34	Standard
|	**Ho**	165	557111.2	2.5				ug/L	745954	Standard
|	**Pb**	208	960.0	5.5	**0.0246**	0.001	5.4	ug/L	990	Standard
|	**Bi**	209	327282.6	1.7				ug/L	414898	Standard
|	**Th**	232	388267.0	2.1				ug/L	510163	Standard
|	**Ni -3**	58	286.3	3.2	**-0.0314**	0.001	2.9	ug/L	242	KED
|	**Ni -4**	60	118.0	3.4	**-0.0235**	0.001	4.7	ug/L	100	KED
|	**Ni -5**	62	21.7	27.8	**-0.0098**	0.010	105.2	ug/L	19	KED
|	**As-2**	75	14.3	21.3	**0.0057**	0.005	90.2	ug/L	3	KED
	Y-1	89	89388.5	1.0				ug/L	98389	KED
	Rh-1	103	101699.0	0.4				ug/L	118370	KED
|>	**Ge**	72	582853.6	2.3				ug/L	720115	Standard
|>	**Tb**	159	654605.6	1.6				ug/L	850893	Standard
|>	**Ge-1**	72	91391.4	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		80.939
|>	Tb	159		76.932
|>	Ge-1	72		91.576

Quantitative Analysis - Summary Report

Sample ID: 08-131-03 2X

Sample Date/Time: Tuesday, August 19, 2025 09:48:39
Report Date/Time: Tuesday, August 19, 2025 09:50:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-131-03 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	2769.9	2.3	**0.4224**	0.013	3.0	ug/L	162	Standard
|	**As**	75	11943.1	0.9	**0.5150**	0.028	5.4	ug/L	13407	Standard
|	**As-1**	75	808.9	4.2	**0.2903**	0.010	3.4	ug/L	-163	Standard
|	**Se**	77	114.7	5.0	**0.0836**	0.026	31.1	ug/L	118	Standard
|	**Se -1**	78	11226.1	1.1	**0.9555**	0.165	17.3	ug/L	13606	Standard
|	**Br**	79	2863.3	2.4				ug/L	470	Standard
|	**Se -2**	82	52.7	24.5	**0.0231**	0.048	208.0	ug/L	34	Standard
	Kr	83	31.3	4.9				ug/L	34	Standard
|	**Ho**	165	562269.6	3.6				ug/L	745954	Standard
|	**Pb**	208	1964.1	2.1	**0.0498**	0.002	3.4	ug/L	990	Standard
|	**Bi**	209	321014.5	1.8				ug/L	414898	Standard
|	**Th**	232	376318.8	1.4				ug/L	510163	Standard
|	**Ni -3**	58	4197.6	1.4	**0.3923**	0.006	1.5	ug/L	242	KED
|	**Ni -4**	60	1770.8	2.0	**0.3880**	0.009	2.3	ug/L	100	KED
|	**Ni -5**	62	267.7	5.4	**0.4065**	0.025	6.2	ug/L	19	KED
|	**As-2**	75	178.3	8.4	**0.2793**	0.025	9.1	ug/L	3	KED
	Y-1	89	89760.1	0.3				ug/L	98389	KED
	Rh-1	103	99545.6	1.1				ug/L	118370	KED
|>	**Ge**	72	567429.8	0.3				ug/L	720115	Standard
|>	**Tb**	159	652183.0	1.7				ug/L	850893	Standard
|>	**Ge-1**	72	90936.5	0.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.797
|>	Tb	159		76.647
|>	Ge-1	72		91.120

Quantitative Analysis - Summary Report

Sample ID: 08-136-01c 2X

Sample Date/Time: Tuesday, August 19, 2025 09:52:49
Report Date/Time: Tuesday, August 19, 2025 09:54:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01c 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	6342.4	2.3	**1.0342**	0.017	1.7	ug/L	162	Standard
|	**As**	75	13837.9	0.5	**1.0391**	0.038	3.6	ug/L	13407	Standard
|	**As-1**	75	3115.3	2.8	**0.9933**	0.025	2.6	ug/L	-163	Standard
|	**Se**	77	221.7	5.7	**0.5848**	0.055	9.4	ug/L	118	Standard
|	**Se -1**	78	10877.8	0.4	**0.1370**	0.183	133.6	ug/L	13606	Standard
|	**Br**	79	10959.5	2.3				ug/L	470	Standard
|	**Se -2**	82	77.0	3.9	**0.1101**	0.013	11.6	ug/L	34	Standard
	Kr	83	32.0	14.3				ug/L	34	Standard
|	**Ho**	165	584195.1	3.1				ug/L	745954	Standard
|	**Pb**	208	902.3	4.8	**0.0226**	0.001	4.8	ug/L	990	Standard
|	**Bi**	209	323027.2	1.5				ug/L	414898	Standard
|	**Th**	232	396692.7	1.0				ug/L	510163	Standard
|	**Ni -3**	58	6237.1	1.8	**0.6221**	0.015	2.5	ug/L	242	KED
|	**Ni -4**	60	2774.9	2.8	**0.6471**	0.017	2.6	ug/L	100	KED
|	**Ni -5**	62	394.7	5.2	**0.6302**	0.038	6.0	ug/L	19	KED
|	**As-2**	75	562.0	2.8	**0.9315**	0.025	2.7	ug/L	3	KED
	Y-1	89	90467.9	1.1				ug/L	98389	KED
	Rh-1	103	97604.6	0.4				ug/L	118370	KED
|>	**Ge**	72	577073.4	0.7				ug/L	720115	Standard
|>	**Tb**	159	670399.5	1.1				ug/L	850893	Standard
|>	**Ge-1**	72	89752.7	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		80.136
|>	Tb	159		78.788
|>	Ge-1	72		89.934

Quantitative Analysis - Summary Report

Sample ID: 08-136-02c 2X

Sample Date/Time: Tuesday, August 19, 2025 09:56:58
Report Date/Time: Tuesday, August 19, 2025 09:58:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-02c 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	5468.0	2.1	0.9231	0.025	2.7	ug/L	162	Standard
|	As	75	17092.9	1.1	2.2726	0.017	0.7	ug/L	13407	Standard
|	As-1	75	6185.5	1.2	2.0158	0.025	1.2	ug/L	-163	Standard
|	Se	77	186.7	3.3	0.4562	0.039	8.5	ug/L	118	Standard
|	Se -1	78	11012.9	1.5	1.0555	0.147	14.0	ug/L	13606	Standard
|	Br	79	8907.4	1.3				ug/L	470	Standard
|	Se -2	82	57.7	5.6	0.0476	0.015	31.9	ug/L	34	Standard
	Kr	83	35.3	7.1				ug/L	34	Standard
|	Ho	165	564554.9	1.0				ug/L	745954	Standard
|	Pb	208	1216.4	5.6	0.0311	0.001	4.3	ug/L	990	Standard
|	Bi	209	314491.8	0.8				ug/L	414898	Standard
|	Th	232	383901.0	1.5				ug/L	510163	Standard
|	Ni -3	58	7059.9	0.3	0.7294	0.002	0.3	ug/L	242	KED
|	Ni -4	60	2745.9	1.0	0.6551	0.006	1.0	ug/L	100	KED
|	Ni -5	62	404.0	6.9	0.6614	0.050	7.5	ug/L	19	KED
|	As-2	75	1137.7	2.0	1.9467	0.043	2.2	ug/L	3	KED
	Y-1	89	87140.0	0.8				ug/L	98389	KED
	Rh-1	103	95546.2	1.2				ug/L	118370	KED
|>	Ge	72	553473.9	1.4				ug/L	720115	Standard
|>	Tb	159	652186.6	1.3				ug/L	850893	Standard
|>	Ge-1	72	87813.7	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.859
|>	Tb	159		76.647
|>	Ge-1	72		87.991

Quantitative Analysis - Summary Report

Sample ID: 08-136-03c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:01:08
Report Date/Time: Tuesday, August 19, 2025 10:02:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-03c 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	16063.0	2.4	2.7623	0.040	1.5	ug/L	162	Standard
|	As	75	26093.6	1.4	4.9532	0.087	1.8	ug/L	13407	Standard
|	As-1	75	15270.8	1.5	4.7899	0.042	0.9	ug/L	-163	Standard
|	Se	77	193.0	11.2	0.4609	0.093	20.1	ug/L	118	Standard
|	Se -1	78	11093.6	1.3	0.7137	0.166	23.2	ug/L	13606	Standard
|	Br	79	44243.1	0.9				ug/L	470	Standard
|	Se -2	82	122.7	18.0	0.2855	0.078	27.1	ug/L	34	Standard
	Kr	83	28.3	16.3				ug/L	34	Standard
|	Ho	165	577541.8	2.2				ug/L	745954	Standard
|	Pb	208	2208.1	1.0	0.0545	0.001	2.2	ug/L	990	Standard
|	Bi	209	322938.0	2.1				ug/L	414898	Standard
|	Th	232	397533.7	2.2				ug/L	510163	Standard
|	Ni -3	58	31298.8	3.0	3.3745	0.073	2.2	ug/L	242	KED
|	Ni -4	60	9685.6	1.1	2.3925	0.008	0.3	ug/L	100	KED
|	Ni -5	62	1430.1	2.2	2.4076	0.079	3.3	ug/L	19	KED
|	As-2	75	2813.9	3.0	4.7413	0.148	3.1	ug/L	3	KED
	Y-1	89	90407.8	0.3				ug/L	98389	KED
	Rh-1	103	96988.5	0.8				ug/L	118370	KED
|>	Ge	72	568746.3	2.3				ug/L	720115	Standard
|>	Tb	159	668827.7	2.2				ug/L	850893	Standard
|>	Ge-1	72	89665.5	1.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.980
|>	Tb	159		78.603
|>	Ge-1	72		89.846

Quantitative Analysis - Summary Report

Sample ID: 08-136-04c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:05:17
Report Date/Time: Tuesday, August 19, 2025 10:07:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-04c 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3731.5	2.2	**0.6159**	0.016	2.6	ug/L	162	Standard
|	As	75	11855.0	1.4	**0.6220**	0.018	3.0	ug/L	13407	Standard
|	As-1	75	1085.4	3.4	**0.3887**	0.009	2.2	ug/L	-163	Standard
|	Se	77	210.3	7.9	**0.5851**	0.089	15.3	ug/L	118	Standard
|	Se -1	78	10928.8	1.4	**1.1057**	0.101	9.1	ug/L	13606	Standard
|	Br	79	20252.3	1.1				ug/L	470	Standard
|	Se -2	82	78.7	15.7	**0.1316**	0.045	34.4	ug/L	34	Standard
	Kr	83	27.3	7.6				ug/L	34	Standard
|	Ho	165	549399.2	0.8				ug/L	745954	Standard
|	Pb	208	1323.0	1.5	**0.0343**	0.001	2.8	ug/L	990	Standard
|	Bi	209	311681.4	1.2				ug/L	414898	Standard
|	Th	232	377780.7	1.2				ug/L	510163	Standard
|	Ni -3	58	2556.2	2.2	**0.2318**	0.004	1.6	ug/L	242	KED
|	Ni -4	60	1116.4	2.5	**0.2425**	0.007	3.1	ug/L	100	KED
|	Ni -5	62	171.7	7.9	**0.2622**	0.024	9.0	ug/L	19	KED
|	As-2	75	188.3	1.3	**0.3156**	0.006	2.0	ug/L	3	KED
	Y-1	89	85328.4	0.2				ug/L	98389	KED
	Rh-1	103	92917.5	0.2				ug/L	118370	KED
|>	Ge	72	547661.0	1.1				ug/L	720115	Standard
|>	Tb	159	641530.3	1.3				ug/L	850893	Standard
|>	Ge-1	72	85597.7	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.052
|>	Tb	159		75.395
|>	Ge-1	72		85.770

Quantitative Analysis - Summary Report

Sample ID: 08-136-05c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:09:26
Report Date/Time: Tuesday, August 19, 2025 10:11:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-05c 2X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	8083.3	0.4	**1.4038**	0.023	1.7	ug/L	162	Standard
|	As	75	11784.2	1.9	**0.5781**	0.085	14.6	ug/L	13407	Standard
|	As-1	75	1049.1	3.0	**0.3752**	0.011	3.0	ug/L	-163	Standard
|	Se	77	174.0	9.5	**0.3967**	0.073	18.4	ug/L	118	Standard
|	Se -1	78	10938.5	1.7	**1.0265**	0.366	35.7	ug/L	13606	Standard
|	Br	79	28974.7	2.0				ug/L	470	Standard
|	Se -2	82	96.0	11.7	**0.1979**	0.048	24.1	ug/L	34	Standard
	Kr	83	29.7	24.4				ug/L	34	Standard
|	Ho	165	575482.4	2.1				ug/L	745954	Standard
|	Pb	208	1075.7	6.8	**0.0268**	0.001	4.8	ug/L	990	Standard
|	Bi	209	313231.0	1.6				ug/L	414898	Standard
|	Th	232	380676.0	1.5				ug/L	510163	Standard
|	Ni -3	58	9243.2	2.1	**1.0098**	0.014	1.4	ug/L	242	KED
|	Ni -4	60	4098.3	0.2	**1.0402**	0.010	1.0	ug/L	100	KED
|	Ni -5	62	620.0	7.2	**1.0770**	0.076	7.1	ug/L	19	KED
|	As-2	75	194.7	8.7	**0.3298**	0.032	9.8	ug/L	3	KED
	Y-1	89	85658.1	0.9				ug/L	98389	KED
	Rh-1	103	92450.2	0.5				ug/L	118370	KED
|>	Ge	72	550705.7	1.2				ug/L	720115	Standard
|>	Tb	159	671873.7	1.8				ug/L	850893	Standard
|>	Ge-1	72	84889.1	0.9				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.475
|>	Tb	159		78.961
|>	Ge-1	72		85.060

Quantitative Analysis - Summary Report

Sample ID: 08-136-06c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:13:34
Report Date/Time: Tuesday, August 19, 2025 10:15:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-06c 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3437.4	2.1	0.5820	0.004	0.7	ug/L	162	Standard
|	As	75	11748.0	0.5	0.7097	0.088	12.4	ug/L	13407	Standard
|	As-1	75	1045.2	5.2	0.3866	0.021	5.4	ug/L	-163	Standard
|	Se	77	229.0	4.3	0.7163	0.080	11.2	ug/L	118	Standard
|	Se -1	78	10843.8	1.0	1.5250	0.410	26.9	ug/L	13606	Standard
|	Br	79	19707.6	1.5				ug/L	470	Standard
|	Se -2	82	71.3	1.6	0.1122	0.011	9.8	ug/L	34	Standard
	Kr	83	30.0	20.3				ug/L	34	Standard
|	Ho	165	554612.6	1.3				ug/L	745954	Standard
|	Pb	208	1241.0	4.7	0.0319	0.002	5.1	ug/L	990	Standard
|	Bi	209	308588.1	0.8				ug/L	414898	Standard
|	Th	232	371163.4	1.7				ug/L	510163	Standard
|	Ni -3	58	2322.7	1.3	0.2114	0.005	2.2	ug/L	242	KED
|	Ni -4	60	1045.0	2.5	0.2303	0.007	3.2	ug/L	100	KED
|	Ni -5	62	150.7	7.9	0.2311	0.023	10.2	ug/L	19	KED
|	As-2	75	183.0	7.4	0.3139	0.023	7.3	ug/L	3	KED
	Y-1	89	83679.4	0.9				ug/L	98389	KED
	Rh-1	103	91373.6	1.1				ug/L	118370	KED
|>	Ge	72	530877.5	2.4				ug/L	720115	Standard
|>	Tb	159	648600.3	0.6				ug/L	850893	Standard
|>	Ge-1	72	83567.4	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.721
|>	Tb	159		76.226
|>	Ge-1	72		83.736

Quantitative Analysis - Summary Report

Sample ID: MB0819D1 2X

Sample Date/Time: Tuesday, August 19, 2025 10:17:43
Report Date/Time: Tuesday, August 19, 2025 10:19:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\MB0819D1 2X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	164.0	6.3	-0.0366	0.002	5.6	ug/L	162	Standard
|	As	75	10721.0	1.7	0.2423	0.061	25.2	ug/L	13407	Standard
|	As-1	75	-92.1	64.4	0.0082	0.020	239.4	ug/L	-163	Standard
|	Se	77	87.7	2.4	-0.0333	0.007	20.5	ug/L	118	Standard
|	Se -1	78	10853.8	1.5	0.9377	0.317	33.8	ug/L	13606	Standard
|	Br	79	718.4	6.1				ug/L	470	Standard
|	Se -2	82	32.0	19.5	-0.0509	0.023	45.4	ug/L	34	Standard
	Kr	83	35.7	18.7				ug/L	34	Standard
|	Ho	165	579844.3	0.7				ug/L	745954	Standard
|	Pb	208	861.0	4.1	0.0214	0.001	2.8	ug/L	990	Standard
|	Bi	209	336638.9	1.2				ug/L	414898	Standard
|	Th	232	387875.0	0.8				ug/L	510163	Standard
|	Ni -3	58	254.3	5.3	-0.0338	0.002	4.8	ug/L	242	KED
|	Ni -4	60	117.3	15.1	-0.0226	0.004	19.7	ug/L	100	KED
|	Ni -5	62	18.7	11.2	-0.0137	0.004	27.1	ug/L	19	KED
|	As-2	75	4.3	58.1	-0.0106	0.004	41.0	ug/L	3	KED
	Y-1	89	88592.5	0.8				ug/L	98389	KED
	Rh-1	103	98947.5	1.2				ug/L	118370	KED
| >	Ge	72	549229.4	1.2				ug/L	720115	Standard
| >	Tb	159	678481.6	1.3				ug/L	850893	Standard
| >	Ge-1	72	88002.2	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		76.270
| >	Tb	159		79.738
| >	Ge-1	72		88.180

Quantitative Analysis - Summary Report

Sample ID: SB0819D1 2X

Sample Date/Time: Tuesday, August 19, 2025 10:21:52
Report Date/Time: Tuesday, August 19, 2025 10:23:41
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\SB0819D1 2X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	216644.8	1.0	**39.4102**	0.616	1.6	ug/L	162	Standard
|	As	75	135374.2	0.6	**40.7591**	0.307	0.8	ug/L	13407	Standard
|	As-1	75	125612.9	0.8	**40.4746**	0.099	0.2	ug/L	-163	Standard
|	Se	77	8379.1	1.7	**41.5029**	0.622	1.5	ug/L	118	Standard
|	Se -1	78	36933.7	0.7	**42.5450**	0.381	0.9	ug/L	13606	Standard
|	Br	79	503.3	4.8				ug/L	470	Standard
|	Se -2	82	10716.7	2.3	**41.5173**	0.632	1.5	ug/L	34	Standard
	Kr	83	28.7	23.2				ug/L	34	Standard
|	Ho	165	578701.3	1.6				ug/L	745954	Standard
|	Pb	208	1626670.7	0.7	**39.4439**	0.268	0.7	ug/L	990	Standard
|	Bi	209	331992.6	0.9				ug/L	414898	Standard
|	Th	232	388735.6	1.3				ug/L	510163	Standard
|	Ni -3	58	337475.9	0.4	**37.9099**	0.401	1.1	ug/L	242	KED
|	Ni -4	60	146049.1	0.4	**37.7257**	0.305	0.8	ug/L	100	KED
|	Ni -5	62	21511.9	1.1	**37.7644**	0.437	1.2	ug/L	19	KED
|	As-2	75	23139.7	1.6	**40.0797**	0.735	1.8	ug/L	3	KED
	Y-1	89	87708.4	0.8				ug/L	98389	KED
	Rh-1	103	99206.3	0.7				ug/L	118370	KED
|>	Ge	72	549704.2	1.0				ug/L	720115	Standard
|>	Tb	159	671935.3	1.3				ug/L	850893	Standard
|>	Ge-1	72	87516.6	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.336
|>	Tb	159		78.968
|>	Ge-1	72		87.693

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d 2X

Sample Date/Time: Tuesday, August 19, 2025 10:27:43
Report Date/Time: Tuesday, August 19, 2025 10:29:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d 2X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	6963.7	2.3	1.2449	0.029	2.3	ug/L	162	Standard
|	As	75	14161.0	0.8	1.5120	0.037	2.5	ug/L	13407	Standard
|	As-1	75	3578.7	1.7	1.2288	0.019	1.6	ug/L	-163	Standard
|	Se	77	211.3	7.8	0.6214	0.085	13.6	ug/L	118	Standard
|	Se -1	78	10769.4	1.0	1.3644	0.184	13.5	ug/L	13606	Standard
|	Br	79	12378.0	2.5				ug/L	470	Standard
|	Se -2	82	89.3	8.5	0.1839	0.031	16.7	ug/L	34	Standard
	Kr	83	30.3	11.6				ug/L	34	Standard
|	Ho	165	532134.6	1.4				ug/L	745954	Standard
|	Pb	208	566.3	5.5	0.0155	0.001	6.5	ug/L	990	Standard
|	Bi	209	296523.4	1.1				ug/L	414898	Standard
|	Th	232	358134.7	0.6				ug/L	510163	Standard
|	Ni -3	58	6775.8	1.4	0.7650	0.012	1.6	ug/L	242	KED
|	Ni -4	60	2957.6	0.4	0.7774	0.003	0.4	ug/L	100	KED
|	Ni -5	62	450.7	7.8	0.8132	0.067	8.3	ug/L	19	KED
|	As-2	75	624.7	6.8	1.1564	0.080	6.9	ug/L	3	KED
	Y-1	89	79572.0	1.1				ug/L	98389	KED
	Rh-1	103	86466.2	1.2				ug/L	118370	KED
|>	Ge	72	531822.3	0.1				ug/L	720115	Standard
|>	Tb	159	624426.1	1.9				ug/L	850893	Standard
|>	Ge-1	72	80652.0	0.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.852
|>	Tb	159		73.385
|>	Ge-1	72		80.815

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 10:31:54
Report Date/Time: Tuesday, August 19, 2025 10:33:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	212535.1	2.0	**37.2630**	1.542	4.1	ug/L	162	Standard
|	**As**	75	140792.3	1.3	**40.8490**	0.388	1.0	ug/L	13407	Standard
|	**As-1**	75	131258.4	1.5	**40.7484**	0.270	0.7	ug/L	-163	Standard
|	**Se**	77	8869.8	0.9	**42.3417**	0.538	1.3	ug/L	118	Standard
|	**Se -1**	78	38249.5	1.6	**42.4177**	0.929	2.2	ug/L	13606	Standard
|	**Br**	79	559.3	3.2				ug/L	470	Standard
|	**Se -2**	82	11324.2	2.2	**42.2712**	0.309	0.7	ug/L	34	Standard
	Kr	83	29.7	10.8				ug/L	34	Standard
|	**Ho**	165	574178.9	0.7				ug/L	745954	Standard
|	**Pb**	208	1595760.7	1.2	**38.9594**	0.547	1.4	ug/L	990	Standard
|	**Bi**	209	331146.9	1.4				ug/L	414898	Standard
|	**Th**	232	380966.3	0.6				ug/L	510163	Standard
|	**Ni -3**	58	325725.1	0.2	**37.6606**	0.122	0.3	ug/L	242	KED
|	**Ni -4**	60	141885.8	0.6	**37.7234**	0.168	0.4	ug/L	100	KED
|	**Ni -5**	62	20705.3	0.4	**37.4129**	0.103	0.3	ug/L	19	KED
|	**As-2**	75	22521.7	1.3	**40.1524**	0.626	1.6	ug/L	3	KED
	Y-1	89	85902.2	1.4				ug/L	98389	KED
	Rh-1	103	96223.7	1.3				ug/L	118370	KED
|>	**Ge**	72	570592.5	2.2				ug/L	720115	Standard
|>	**Tb**	159	667377.6	1.3				ug/L	850893	Standard
|>	**Ge-1**	72	85024.3	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	93.158	
|	As	75	102.122	
|	As-1	75	101.871	
|	Se	77	105.854	
|	Se -1	78	106.044	
|	Br	79		
|	Se -2	82	105.678	
	Kr	83		
|	Ho	165		
|	Pb	208	97.399	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.151	
|	Ni -4	60	94.309	
|	Ni -5	62	93.532	
|	As-2	75	100.381	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		79.236
|>	Tb	159		78.433
|>	Ge-1	72		85.196

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 10:36:04
Report Date/Time: Tuesday, August 19, 2025 10:37:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	104912.2	0.5	**19.1560**	0.213	1.1	ug/L	162	Standard
|	As	75	73774.5	1.7	**20.8673**	0.306	1.5	ug/L	13407	Standard
|	As-1	75	63213.8	1.7	**20.4995**	0.225	1.1	ug/L	-163	Standard
|	Se	77	4262.6	2.4	**20.9965**	0.205	1.0	ug/L	118	Standard
|	Se -1	78	24050.2	2.0	**22.1911**	0.263	1.2	ug/L	13606	Standard
|	Br	79	453.7	4.7				ug/L	470	Standard
|	Se -2	82	5328.7	3.3	**20.6672**	0.390	1.9	ug/L	34	Standard
	Kr	83	28.3	13.4				ug/L	34	Standard
|	Ho	165	563150.6	2.5				ug/L	745954	Standard
|	Pb	208	781835.6	2.7	**19.6628**	0.295	1.5	ug/L	990	Standard
|	Bi	209	316575.4	3.7				ug/L	414898	Standard
|	Th	232	362316.7	1.8				ug/L	510163	Standard
|	Ni -3	58	161084.1	1.6	**18.8342**	0.037	0.2	ug/L	242	KED
|	Ni -4	60	70394.4	1.4	**18.9319**	0.068	0.4	ug/L	100	KED
|	Ni -5	62	10363.4	2.1	**18.9446**	0.205	1.1	ug/L	19	KED
|	As-2	75	11202.7	2.4	**20.2195**	0.174	0.9	ug/L	3	KED
	Y-1	89	84441.9	1.6				ug/L	98389	KED
	Rh-1	103	93453.2	2.8				ug/L	118370	KED
|>	Ge	72	546700.3	1.5				ug/L	720115	Standard
|>	Tb	159	647769.3	1.4				ug/L	850893	Standard
|>	Ge-1	72	83939.9	1.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	95.780	
|	As	75	104.336	
|	As-1	75	102.497	
|	Se	77	104.983	
|	Se -1	78	110.955	
|	Br	79		
|	Se -2	82	103.336	
	Kr	83		
|	Ho	165		
|	Pb	208	98.314	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.171	
|	Ni -4	60	94.660	
|	Ni -5	62	94.723	
|	As-2	75	101.097	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		75.918
|>	Tb	159		76.128
|>	Ge-1	72		84.109

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 10:40:15
Report Date/Time: Tuesday, August 19, 2025 10:42:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	157.7	7.8	-0.0390	0.003	6.6	ug/L	162	Standard
|	As	75	10935.5	1.5	0.1629	0.031	18.8	ug/L	13407	Standard
|	As-1	75	-54.7	52.9	0.0210	0.009	43.5	ug/L	-163	Standard
|	Se	77	96.0	13.6	-0.0123	0.054	441.5	ug/L	118	Standard
|	Se -1	78	11060.6	1.4	0.5266	0.151	28.7	ug/L	13606	Standard
|	Br	79	376.0	4.0				ug/L	470	Standard
|	Se -2	82	44.0	21.9	-0.0116	0.033	283.0	ug/L	34	Standard
	Kr	83	23.7	6.5				ug/L	34	Standard
|	Ho	165	588089.7	2.5				ug/L	745954	Standard
|	Pb	208	983.0	2.7	0.0242	0.000	0.8	ug/L	990	Standard
|	Bi	209	334930.5	1.3				ug/L	414898	Standard
|	Th	232	381934.3	1.4				ug/L	510163	Standard
|	Ni -3	58	238.4	2.1	-0.0353	0.001	1.8	ug/L	242	KED
|	Ni -4	60	95.7	7.9	-0.0279	0.002	7.3	ug/L	100	KED
|	Ni -5	62	18.0	20.0	-0.0145	0.006	44.0	ug/L	19	KED
|	As-2	75	10.0	20.0	-0.0007	0.003	476.9	ug/L	3	KED
	Y-1	89	88313.5	0.9				ug/L	98389	KED
	Rh-1	103	99097.2	1.4				ug/L	118370	KED
| >	Ge	72	573272.2	1.8				ug/L	720115	Standard
| >	Tb	159	681545.0	2.3				ug/L	850893	Standard
| >	Ge-1	72	87127.6	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		79.608
| >	Tb	159		80.098
| >	Ge-1	72		87.303

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d D 2X

Sample Date/Time: Tuesday, August 19, 2025 10:45:15
Report Date/Time: Tuesday, August 19, 2025 10:47:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d D 2X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	6975.0	2.0	**1.2921**	0.054	4.2	ug/L	162	Standard
|	**As**	75	14250.6	0.6	**1.7046**	0.082	4.8	ug/L	13407	Standard
|	**As-1**	75	3640.3	2.6	**1.2904**	0.042	3.3	ug/L	-163	Standard
|	**Se**	77	216.7	7.9	**0.6860**	0.068	9.9	ug/L	118	Standard
|	**Se -1**	78	10804.1	1.5	**2.0252**	0.308	15.2	ug/L	13606	Standard
|	**Br**	79	13186.8	3.2				ug/L	470	Standard
|	**Se -2**	82	92.0	16.0	**0.2066**	0.056	27.0	ug/L	34	Standard
	Kr	83	29.0	6.0				ug/L	34	Standard
|	**Ho**	165	516218.1	2.7				ug/L	745954	Standard
|	**Pb**	208	529.3	5.3	**0.0152**	0.001	3.8	ug/L	990	Standard
|	**Bi**	209	282001.2	2.4				ug/L	414898	Standard
|	**Th**	232	333229.5	0.9				ug/L	510163	Standard
|	**Ni -3**	58	6982.4	0.6	**0.8219**	0.010	1.2	ug/L	242	KED
|	**Ni -4**	60	3043.7	3.6	**0.8332**	0.028	3.4	ug/L	100	KED
|	**Ni -5**	62	448.0	7.6	**0.8398**	0.064	7.7	ug/L	19	KED
|	**As-2**	75	674.7	5.6	**1.2976**	0.071	5.5	ug/L	3	KED
	Y-1	89	76699.0	1.2				ug/L	98389	KED
	Rh-1	103	83018.2	0.6				ug/L	118370	KED
|>	**Ge**	72	514482.8	2.0				ug/L	720115	Standard
|>	**Tb**	159	596047.8	2.1				ug/L	850893	Standard
|>	**Ge-1**	72	77761.4	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		71.445
|>	Tb	159		70.050
|>	Ge-1	72		77.918

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d L 10X

Sample Date/Time: Tuesday, August 19, 2025 10:49:26
Report Date/Time: Tuesday, August 19, 2025 10:51:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d L 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	1645.4	3.2	**0.2383**	0.012	5.2	ug/L	162	Standard
|	**As**	75	11129.5	0.6	**0.4320**	0.066	15.2	ug/L	13407	Standard
|	**As-1**	75	688.4	8.1	**0.2634**	0.020	7.7	ug/L	-163	Standard
|	**Se**	77	108.7	9.4	**0.0803**	0.048	60.0	ug/L	118	Standard
|	**Se -1**	78	10527.2	0.1	**0.6789**	0.241	35.6	ug/L	13606	Standard
|	**Br**	79	2854.0	2.7				ug/L	470	Standard
|	**Se -2**	82	49.3	8.2	**0.0198**	0.016	81.1	ug/L	34	Standard
	Kr	83	30.0	16.7				ug/L	34	Standard
|	**Ho**	165	549183.7	1.2				ug/L	745954	Standard
|	**Pb**	208	711.0	2.3	**0.0188**	0.001	3.2	ug/L	990	Standard
|	**Bi**	209	315638.3	1.8				ug/L	414898	Standard
|	**Th**	232	365016.6	0.5				ug/L	510163	Standard
|	**Ni -3**	58	1747.6	1.7	**0.1469**	0.003	1.9	ug/L	242	KED
|	**Ni -4**	60	753.7	1.4	**0.1546**	0.002	1.6	ug/L	100	KED
|	**Ni -5**	62	113.3	11.0	**0.1655**	0.022	13.5	ug/L	19	KED
|	**As-2**	75	163.3	6.6	**0.2830**	0.021	7.4	ug/L	3	KED
	Y-1	89	82048.6	1.4				ug/L	98389	KED
	Rh-1	103	90142.2	1.5				ug/L	118370	KED
|>	**Ge**	72	540795.1	1.3				ug/L	720115	Standard
|>	**Tb**	159	641857.0	1.0				ug/L	850893	Standard
|>	**Ge-1**	72	82265.5	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		75.098
|>	Tb	159		75.433
|>	Ge-1	72		82.431

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d MS 2X

Sample Date/Time: Tuesday, August 19, 2025 10:53:35
Report Date/Time: Tuesday, August 19, 2025 10:55:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d MS 2X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	192455.8	1.3	**38.7768**	0.754	1.9	ug/L	162	Standard
|	As	75	136448.2	1.2	**45.8802**	0.538	1.2	ug/L	13407	Standard
|	As-1	75	127265.3	1.3	**45.4155**	0.613	1.3	ug/L	-163	Standard
|	Se	77	8583.6	1.2	**47.1530**	0.092	0.2	ug/L	118	Standard
|	Se -1	78	36914.0	1.0	**48.8554**	0.993	2.0	ug/L	13606	Standard
|	Br	79	11926.0	1.0				ug/L	470	Standard
|	Se -2	82	10935.9	2.3	**46.9565**	1.308	2.8	ug/L	34	Standard
	Kr	83	34.3	17.8				ug/L	34	Standard
|	Ho	165	509483.0	0.5				ug/L	745954	Standard
|	Pb	208	1382615.5	0.6	**38.4645**	0.702	1.8	ug/L	990	Standard
|	Bi	209	279732.2	1.3				ug/L	414898	Standard
|	Th	232	338262.0	0.7				ug/L	510163	Standard
|	Ni -3	58	285233.5	0.3	**37.1278**	0.277	0.7	ug/L	242	KED
|	Ni -4	60	124084.2	0.5	**37.1406**	0.158	0.4	ug/L	100	KED
|	Ni -5	62	18315.4	0.8	**37.2576**	0.103	0.3	ug/L	19	KED
|	As-2	75	21903.4	1.1	**43.9649**	0.614	1.4	ug/L	3	KED
	Y-1	89	75167.6	1.3				ug/L	98389	KED
	Rh-1	103	81456.0	2.0				ug/L	118370	KED
| >	Ge	72	496302.4	1.0				ug/L	720115	Standard
| >	Tb	159	585765.1	1.9				ug/L	850893	Standard
| >	Ge-1	72	75522.8	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		68.920
| >	Tb	159		68.841
| >	Ge-1	72		75.675

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d MSD 2X

Sample Date/Time: Tuesday, August 19, 2025 10:57:43
Report Date/Time: Tuesday, August 19, 2025 10:59:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d MSD 2X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	187171.4	1.5	**34.8970**	0.271	0.8	ug/L	162	Standard
|	As	75	134813.3	1.4	**41.6806**	0.354	0.8	ug/L	13407	Standard
|	As-1	75	125646.4	1.6	**41.5047**	0.380	0.9	ug/L	-163	Standard
|	Se	77	8567.2	2.4	**43.5335**	1.264	2.9	ug/L	118	Standard
|	Se -1	78	36707.4	0.4	**43.6635**	0.416	1.0	ug/L	13606	Standard
|	Br	79	12247.9	1.4				ug/L	470	Standard
|	Se -2	82	10860.8	0.5	**43.1486**	0.089	0.2	ug/L	34	Standard
	Kr	83	34.3	16.8				ug/L	34	Standard
|	Ho	165	559038.0	0.6				ug/L	745954	Standard
|	Pb	208	1355001.0	1.4	**34.4996**	0.462	1.3	ug/L	990	Standard
|	Bi	209	301275.3	1.3				ug/L	414898	Standard
|	Th	232	361178.6	1.3				ug/L	510163	Standard
|	Ni -3	58	276597.5	0.8	**33.8419**	0.304	0.9	ug/L	242	KED
|	Ni -4	60	121175.5	1.0	**34.0931**	0.218	0.6	ug/L	100	KED
|	Ni -5	62	17553.1	1.9	**33.5607**	0.159	0.5	ug/L	19	KED
|	As-2	75	21281.2	0.3	**40.1577**	0.523	1.3	ug/L	3	KED
	Y-1	89	80407.4	1.9				ug/L	98389	KED
	Rh-1	103	86470.2	0.6				ug/L	118370	KED
|>	Ge	72	536161.4	0.7				ug/L	720115	Standard
|>	Tb	159	640042.9	2.6				ug/L	850893	Standard
|>	Ge-1	72	80339.3	1.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		74.455
|>	Tb	159		75.220
|>	Ge-1	72		80.501

Quantitative Analysis - Summary Report

Sample ID: 08-136-02d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:01:52
Report Date/Time: Tuesday, August 19, 2025 11:03:41
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-02d 2X.058

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	5926.9	1.9	1.0713	0.036	3.4	ug/L	162	Standard
|	As	75	18026.5	0.3	2.9274	0.094	3.2	ug/L	13407	Standard
|	As-1	75	7302.1	0.8	2.5145	0.044	1.7	ug/L	-163	Standard
|	Se	77	190.3	3.3	0.5319	0.046	8.6	ug/L	118	Standard
|	Se -1	78	10880.5	1.0	1.8929	0.294	15.5	ug/L	13606	Standard
|	Br	79	10438.8	1.4				ug/L	470	Standard
|	Se -2	82	77.3	10.5	0.1413	0.029	20.3	ug/L	34	Standard
	Kr	83	33.3	32.1				ug/L	34	Standard
|	Ho	165	534251.4	0.7				ug/L	745954	Standard
|	Pb	208	973.3	0.8	0.0262	0.000	1.5	ug/L	990	Standard
|	Bi	209	293657.6	1.4				ug/L	414898	Standard
|	Th	232	351451.4	0.7				ug/L	510163	Standard
|	Ni -3	58	7584.0	2.8	0.8864	0.025	2.9	ug/L	242	KED
|	Ni -4	60	2996.3	1.4	0.8089	0.013	1.6	ug/L	100	KED
|	Ni -5	62	454.7	2.4	0.8421	0.018	2.1	ug/L	19	KED
|	As-2	75	1328.7	6.5	2.5412	0.155	6.1	ug/L	3	KED
	Y-1	89	78961.6	0.8				ug/L	98389	KED
	Rh-1	103	86815.0	0.3				ug/L	118370	KED
|>	Ge	72	521855.9	1.6				ug/L	720115	Standard
|>	Tb	159	623175.3	2.2				ug/L	850893	Standard
|>	Ge-1	72	78718.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		72.468
|>	Tb	159		73.238
|>	Ge-1	72		78.877

Quantitative Analysis - Summary Report

Sample ID: 08-136-03d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:06:01
Report Date/Time: Tuesday, August 19, 2025 11:07:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-03d 2X.059

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	17327.2	2.6	3.1969	0.082	2.6	ug/L	162	Standard
|	As	75	27835.8	0.1	6.1071	0.015	0.3	ug/L	13407	Standard
|	As-1	75	17186.9	0.4	5.7570	0.031	0.5	ug/L	-163	Standard
|	Se	77	188.7	3.8	0.5041	0.037	7.4	ug/L	118	Standard
|	Se -1	78	10916.2	0.5	1.6076	0.073	4.5	ug/L	13606	Standard
|	Br	79	49950.8	0.7				ug/L	470	Standard
|	Se -2	82	121.0	16.0	0.3113	0.078	24.9	ug/L	34	Standard
	Kr	83	33.7	9.1				ug/L	34	Standard
|	Ho	165	532970.3	0.7				ug/L	745954	Standard
|	Pb	208	1254.4	1.0	0.0334	0.000	1.5	ug/L	990	Standard
|	Bi	209	298599.2	2.4				ug/L	414898	Standard
|	Th	232	359070.5	1.8				ug/L	510163	Standard
|	Ni -3	58	34002.8	0.2	3.8945	0.012	0.3	ug/L	242	KED
|	Ni -4	60	10698.7	2.0	2.8092	0.048	1.7	ug/L	100	KED
|	Ni -5	62	1582.4	2.9	2.8303	0.086	3.0	ug/L	19	KED
|	As-2	75	3293.7	2.4	5.8846	0.145	2.5	ug/L	3	KED
	Y-1	89	85096.1	1.5				ug/L	98389	KED
	Rh-1	103	90284.1	1.8				ug/L	118370	KED
|>	Ge	72	531789.5	0.1				ug/L	720115	Standard
|>	Tb	159	625053.1	0.6				ug/L	850893	Standard
|>	Ge-1	72	84620.6	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.848
|>	Tb	159		73.458
|>	Ge-1	72		84.791

Quantitative Analysis - Summary Report

Sample ID: 08-136-04d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:10:11
Report Date/Time: Tuesday, August 19, 2025 11:11:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-04d 2X.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3674.1	0.2	**0.6016**	0.008	1.3	ug/L	162	Standard
|	**As**	75	11654.8	2.3	**0.5359**	0.127	23.6	ug/L	13407	Standard
|	**As-1**	75	1092.2	6.9	**0.3891**	0.028	7.3	ug/L	-163	Standard
|	**Se**	77	228.7	3.6	**0.6701**	0.028	4.2	ug/L	118	Standard
|	**Se -1**	78	10695.7	1.9	**0.6380**	0.502	78.6	ug/L	13606	Standard
|	**Br**	79	21751.9	0.5				ug/L	470	Standard
|	**Se -2**	82	68.0	18.4	**0.0889**	0.050	56.5	ug/L	34	Standard
	Kr	83	36.7	6.3				ug/L	34	Standard
|	**Ho**	165	566652.6	2.2				ug/L	745954	Standard
|	**Pb**	208	1177.0	3.5	**0.0296**	0.000	1.2	ug/L	990	Standard
|	**Bi**	209	318813.0	0.7				ug/L	414898	Standard
|	**Th**	232	378598.0	1.3				ug/L	510163	Standard
|	**Ni -3**	58	2272.1	2.3	**0.2029**	0.008	3.8	ug/L	242	KED
|	**Ni -4**	60	995.7	0.8	**0.2143**	0.004	1.7	ug/L	100	KED
|	**Ni -5**	62	140.7	6.6	**0.2101**	0.017	8.2	ug/L	19	KED
|	**As-2**	75	228.3	4.2	**0.3922**	0.016	4.1	ug/L	3	KED
	Y-1	89	83953.0	1.6				ug/L	98389	KED
	Rh-1	103	90141.5	1.1				ug/L	118370	KED
|>	**Ge**	72	550816.0	1.2				ug/L	720115	Standard
|>	**Tb**	159	664339.4	2.3				ug/L	850893	Standard
|>	**Ge-1**	72	84390.5	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.490
|>	Tb	159		78.076
|>	Ge-1	72		84.561

Quantitative Analysis - Summary Report

Sample ID: 08-136-05d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:14:19
Report Date/Time: Tuesday, August 19, 2025 11:16:08
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-05d 2X.061

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	8752.0	2.4	**1.5756**	0.038	2.4	ug/L	162	Standard
|	**As**	75	11520.9	0.8	**0.6106**	0.014	2.3	ug/L	13407	Standard
|	**As-1**	75	1205.6	2.4	**0.4377**	0.010	2.3	ug/L	-163	Standard
|	**Se**	77	188.7	3.1	**0.5004**	0.026	5.1	ug/L	118	Standard
|	**Se -1**	78	10530.5	0.9	**0.9058**	0.095	10.4	ug/L	13606	Standard
|	**Br**	79	32313.5	0.8				ug/L	470	Standard
|	**Se -2**	82	100.0	3.6	**0.2254**	0.016	7.2	ug/L	34	Standard
	Kr	83	29.3	11.0				ug/L	34	Standard
|	**Ho**	165	543978.9	1.7				ug/L	745954	Standard
|	**Pb**	208	604.0	2.0	**0.0161**	0.000	2.0	ug/L	990	Standard
|	**Bi**	209	308371.2	0.9				ug/L	414898	Standard
|	**Th**	232	362783.6	0.9				ug/L	510163	Standard
|	**Ni -3**	58	9894.1	1.8	**1.1446**	0.034	3.0	ug/L	242	KED
|	**Ni -4**	60	4265.3	2.0	**1.1435**	0.042	3.6	ug/L	100	KED
|	**Ni -5**	62	619.3	3.6	**1.1334**	0.025	2.2	ug/L	19	KED
|	**As-2**	75	193.0	12.1	**0.3445**	0.045	12.9	ug/L	3	KED
	Y-1	89	80825.1	2.7				ug/L	98389	KED
	Rh-1	103	87062.5	1.4				ug/L	118370	KED
|>	**Ge**	72	533801.6	0.4				ug/L	720115	Standard
|>	**Tb**	159	640270.1	0.7				ug/L	850893	Standard
|>	**Ge-1**	72	80743.6	1.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		74.127
|>	Tb	159		75.247
|>	Ge-1	72		80.906

Quantitative Analysis - Summary Report

Sample ID: 08-136-06d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:18:28
Report Date/Time: Tuesday, August 19, 2025 11:20:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-06d 2X.062

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3858.5	1.0	0.6611	0.005	0.8	ug/L	162	Standard
|	As	75	11729.4	1.6	0.7003	0.051	7.3	ug/L	13407	Standard
|	As-1	75	1065.9	6.5	0.3930	0.021	5.2	ug/L	-163	Standard
|	Se	77	233.0	12.0	0.7361	0.155	21.1	ug/L	118	Standard
|	Se -1	78	10813.1	1.7	1.4605	0.307	21.0	ug/L	13606	Standard
|	Br	79	22584.2	2.2				ug/L	470	Standard
|	Se -2	82	74.7	3.1	0.1254	0.011	8.7	ug/L	34	Standard
	Kr	83	25.3	28.0				ug/L	34	Standard
|	Ho	165	553277.0	2.2				ug/L	745954	Standard
|	Pb	208	1198.4	1.1	0.0311	0.000	1.6	ug/L	990	Standard
|	Bi	209	304320.3	0.4				ug/L	414898	Standard
|	Th	232	363996.6	1.1				ug/L	510163	Standard
|	Ni -3	58	2427.4	3.8	0.2308	0.012	5.0	ug/L	242	KED
|	Ni -4	60	1056.0	1.7	0.2403	0.005	2.1	ug/L	100	KED
|	Ni -5	62	153.0	12.7	0.2422	0.036	14.9	ug/L	19	KED
|	As-2	75	211.0	10.7	0.3742	0.042	11.3	ug/L	3	KED
	Y-1	89	81319.8	0.9				ug/L	98389	KED
	Rh-1	103	87220.5	1.5				ug/L	118370	KED
|>	Ge	72	531119.7	0.8				ug/L	720115	Standard
|>	Tb	159	642917.6	2.4				ug/L	850893	Standard
|>	Ge-1	72	81563.5	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.755
|>	Tb	159		75.558
|>	Ge-1	72		81.728

Quantitative Analysis - Summary Report

Sample ID: 08-139-01c 2X

Sample Date/Time: Tuesday, August 19, 2025 11:22:36
Report Date/Time: Tuesday, August 19, 2025 11:24:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-139-01c 2X.063

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	1437.1	3.0	**0.2007**	0.008	4.0	ug/L	162	Standard
|	**As**	75	10577.2	2.0	**0.2631**	0.059	22.4	ug/L	13407	Standard
|	**As-1**	75	76.3	198.0	**0.0630**	0.049	78.4	ug/L	-163	Standard
|	**Se**	77	391.7	5.5	**1.5302**	0.123	8.1	ug/L	118	Standard
|	**Se -1**	78	10612.9	0.6	**0.8860**	0.136	15.3	ug/L	13606	Standard
|	**Br**	79	26574.7	0.8				ug/L	470	Standard
|	**Se -2**	82	59.7	18.5	**0.0617**	0.045	73.0	ug/L	34	Standard
	Kr	83	29.0	17.2				ug/L	34	Standard
|	**Ho**	165	564803.0	1.5				ug/L	745954	Standard
|	**Pb**	208	2001.4	1.5	**0.0502**	0.001	2.8	ug/L	990	Standard
|	**Bi**	209	313216.0	1.1				ug/L	414898	Standard
|	**Th**	232	364087.7	0.7				ug/L	510163	Standard
|	**Ni -3**	58	1917.3	6.8	**0.1498**	0.015	10.3	ug/L	242	KED
|	**Ni -4**	60	370.0	7.9	**0.0413**	0.008	19.1	ug/L	100	KED
|	**Ni -5**	62	58.3	15.6	**0.0545**	0.015	28.4	ug/L	19	KED
|	**As-2**	75	21.0	21.8	**0.0177**	0.008	45.1	ug/L	3	KED
	Y-1	89	89367.4	1.2				ug/L	98389	KED
	Rh-1	103	97676.5	0.9				ug/L	118370	KED
|>	**Ge**	72	538612.0	0.7				ug/L	720115	Standard
|>	**Tb**	159	658797.7	1.4				ug/L	850893	Standard
|>	**Ge-1**	72	89037.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		74.795
|>	Tb	159		77.424
|>	Ge-1	72		89.217

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 11:26:45
Report Date/Time: Tuesday, August 19, 2025 11:28:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.064

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	217632.3	0.8	**40.5325**	0.943	2.3	ug/L	162	Standard
|	**As**	75	132191.8	0.3	**40.7442**	0.683	1.7	ug/L	13407	Standard
|	**As-1**	75	123377.8	0.6	**40.6964**	0.467	1.1	ug/L	-163	Standard
|	**Se**	77	8058.9	1.4	**40.8551**	0.609	1.5	ug/L	118	Standard
|	**Se -1**	78	35416.5	0.3	**41.4676**	1.121	2.7	ug/L	13606	Standard
|	**Br**	79	775.4	7.5				ug/L	470	Standard
|	**Se -2**	82	10490.9	1.6	**41.6050**	0.232	0.6	ug/L	34	Standard
	Kr	83	33.7	32.7				ug/L	34	Standard
|	**Ho**	165	562800.8	0.9				ug/L	745954	Standard
|	**Pb**	208	1573798.3	0.3	**39.1838**	0.527	1.3	ug/L	990	Standard
|	**Bi**	209	324576.5	1.7				ug/L	414898	Standard
|	**Th**	232	373294.3	0.1				ug/L	510163	Standard
|	**Ni -3**	58	334664.6	0.3	**37.6958**	0.244	0.6	ug/L	242	KED
|	**Ni -4**	60	145039.6	0.3	**37.5671**	0.280	0.7	ug/L	100	KED
|	**Ni -5**	62	21088.2	0.6	**37.1204**	0.031	0.1	ug/L	19	KED
|	**As-2**	75	23076.3	1.0	**40.0798**	0.611	1.5	ug/L	3	KED
	Y-1	89	87288.9	0.6				ug/L	98389	KED
	Rh-1	103	97693.2	0.3				ug/L	118370	KED
|>	**Ge**	72	537038.3	1.7				ug/L	720115	Standard
|>	**Tb**	159	654455.3	1.4				ug/L	850893	Standard
|>	**Ge-1**	72	87277.5	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	101.331	
|	As	75	101.860	
|	As-1	75	101.741	
|	Se	77	102.138	
|	Se -1	78	103.669	
|	Br	79		
|	Se -2	82	104.012	
	Kr	83		
|	Ho	165		
|	Pb	208	97.959	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.239	
|	Ni -4	60	93.918	
|	Ni -5	62	92.801	
|	As-2	75	100.200	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		74.577
|>	Tb	159		76.914
|>	Ge-1	72		87.453

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 11:30:56
Report Date/Time: Tuesday, August 19, 2025 11:32:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.065

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	107938.6	0.7	20.2352	0.212	1.0	ug/L	162	Standard
|	As	75	69416.4	1.5	20.0452	0.255	1.3	ug/L	13407	Standard
|	As-1	75	60004.9	1.4	19.9768	0.203	1.0	ug/L	-163	Standard
|	Se	77	4062.9	0.8	20.5368	0.067	0.3	ug/L	118	Standard
|	Se -1	78	22554.8	1.1	20.7557	0.253	1.2	ug/L	13606	Standard
|	Br	79	587.3	3.1				ug/L	470	Standard
|	Se -2	82	5190.6	0.3	20.6715	0.102	0.5	ug/L	34	Standard
	Kr	83	30.3	18.2				ug/L	34	Standard
|	Ho	165	553362.1	2.5				ug/L	745954	Standard
|	Pb	208	778533.2	1.6	19.5907	0.804	4.1	ug/L	990	Standard
|	Bi	209	316346.5	2.0				ug/L	414898	Standard
|	Th	232	362378.1	0.8				ug/L	510163	Standard
|	Ni -3	58	166399.4	0.6	19.0287	0.141	0.7	ug/L	242	KED
|	Ni -4	60	71902.5	0.8	18.9120	0.170	0.9	ug/L	100	KED
|	Ni -5	62	10605.6	1.0	18.9621	0.256	1.3	ug/L	19	KED
|	As-2	75	11541.7	0.7	20.3753	0.179	0.9	ug/L	3	KED
	Y-1	89	85612.1	1.4				ug/L	98389	KED
	Rh-1	103	96577.1	1.3				ug/L	118370	KED
|>	Ge	72	532526.0	0.5				ug/L	720115	Standard
|>	Tb	159	648087.8	3.8				ug/L	850893	Standard
|>	Ge-1	72	85826.7	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	101.176	
|	As	75	100.226	
|	As-1	75	99.884	
|	Se	77	102.684	
|	Se -1	78	103.779	
|	Br	79		
|	Se -2	82	103.358	
	Kr	83		
|	Ho	165		
|	Pb	208	97.953	
|	Bi	209		
|	Th	232		
|	Ni -3	58	95.143	
|	Ni -4	60	94.560	
|	Ni -5	62	94.811	
|	As-2	75	101.876	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.950
|>	Tb	159		76.166
|>	Ge-1	72		86.000

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 11:35:06
Report Date/Time: Tuesday, August 19, 2025 11:36:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.066

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	174.0	13.3	-0.0330	0.004	12.6	ug/L	162	Standard
|	As	75	10034.4	0.9	0.2070	0.068	33.0	ug/L	13407	Standard
|	As-1	75	-56.0	4.2	0.0189	0.001	3.2	ug/L	-163	Standard
|	Se	77	92.3	10.3	0.0171	0.056	326.3	ug/L	118	Standard
|	Se -1	78	10154.9	0.9	0.7550	0.332	44.0	ug/L	13606	Standard
|	Br	79	450.0	0.8				ug/L	470	Standard
|	Se -2	82	40.3	5.2	-0.0092	0.009	98.6	ug/L	34	Standard
	Kr	83	26.3	17.5				ug/L	34	Standard
|	Ho	165	535463.5	2.1				ug/L	745954	Standard
|	Pb	208	867.0	5.1	0.0235	0.001	4.6	ug/L	990	Standard
|	Bi	209	314693.1	1.4				ug/L	414898	Standard
|	Th	232	358694.7	1.5				ug/L	510163	Standard
|	Ni -3	58	255.1	4.1	-0.0333	0.001	2.9	ug/L	242	KED
|	Ni -4	60	115.0	2.3	-0.0228	0.001	2.7	ug/L	100	KED
|	Ni -5	62	16.7	30.2	-0.0167	0.009	54.1	ug/L	19	KED
|	As-2	75	10.0	60.8	-0.0006	0.011	1839.8	ug/L	3	KED
	Y-1	89	86790.2	0.3				ug/L	98389	KED
	Rh-1	103	95576.0	0.8				ug/L	118370	KED
|>	Ge	72	519365.8	1.2				ug/L	720115	Standard
|>	Tb	159	620773.2	1.1				ug/L	850893	Standard
|>	Ge-1	72	86734.2	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		72.123
|>	Tb	159		72.955
|>	Ge-1	72		86.909

Quantitative Analysis - Summary Report

Sample ID: 08-156-01d 10X

Sample Date/Time: Tuesday, August 19, 2025 11:38:26
Report Date/Time: Tuesday, August 19, 2025 11:40:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-01d 10X.067

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	8067.6	2.3	1.9226	0.068	3.5	ug/L	162	Standard
|	As	75	11199.9	3.5	1.6807	0.214	12.7	ug/L	13407	Standard
|	As-1	75	6104.2	7.6	2.6967	0.204	7.6	ug/L	-163	Standard
|	Se	77	15728.7	3.0	106.1549	4.357	4.1	ug/L	118	Standard
|	Se -1	78	10330.1	2.9	5.9091	0.884	15.0	ug/L	13606	Standard
|	Br	79	1726957.9	1.0				ug/L	470	Standard
|	Se -2	82	2069.1	0.4	10.7172	0.169	1.6	ug/L	34	Standard
	Kr	83	507.7	16.5				ug/L	34	Standard
|	Ho	165	410402.8	0.8				ug/L	745954	Standard
|	Pb	208	1060.7	4.2	0.0375	0.002	5.9	ug/L	990	Standard
|	Bi	209	220501.7	0.4				ug/L	414898	Standard
|	Th	232	281992.1	0.7				ug/L	510163	Standard
|	Ni -3	58	5180.3	0.3	0.6030	0.008	1.3	ug/L	242	KED
|	Ni -4	60	2138.8	1.4	0.5787	0.007	1.3	ug/L	100	KED
|	Ni -5	62	425.7	8.0	0.8077	0.069	8.6	ug/L	19	KED
|	As-2	75	275.3	3.7	0.5263	0.015	2.9	ug/L	3	KED
	Y-1	89	74191.2	0.3				ug/L	98389	KED
	Rh-1	103	72564.8	0.8				ug/L	118370	KED
|>	Ge	72	406325.7	1.2				ug/L	720115	Standard
|>	Tb	159	470595.8	3.7				ug/L	850893	Standard
|>	Ge-1	72	76680.6	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		56.425
|>	Tb	159		55.306
|>	Ge-1	72		76.835

Quantitative Analysis - Summary Report

Sample ID: 08-156-02d 10X

Sample Date/Time: Tuesday, August 19, 2025 11:42:36
Report Date/Time: Tuesday, August 19, 2025 11:44:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-02d 10X.068

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	1673.4	3.6	**0.2739**	0.009	3.1	ug/L	162	Standard
|	**As**	75	14477.6	2.0	**2.0102**	0.102	5.1	ug/L	13407	Standard
|	**As-1**	75	4697.1	2.5	**1.7269**	0.051	2.9	ug/L	-163	Standard
|	**Se**	77	857.7	1.1	**4.3266**	0.107	2.5	ug/L	118	Standard
|	**Se -1**	78	10072.2	1.9	**1.5520**	0.287	18.5	ug/L	13606	Standard
|	**Br**	79	71352.8	2.2				ug/L	470	Standard
|	**Se -2**	82	129.3	7.4	**0.3870**	0.048	12.4	ug/L	34	Standard
	Kr	83	34.7	15.9				ug/L	34	Standard
|	**Ho**	165	502135.3	0.5				ug/L	745954	Standard
|	**Pb**	208	1855.0	1.5	**0.0527**	0.001	1.9	ug/L	990	Standard
|	**Bi**	209	288647.3	0.6				ug/L	414898	Standard
|	**Th**	232	341047.7	0.4				ug/L	510163	Standard
|	**Ni -3**	58	3376.9	3.5	**0.3038**	0.011	3.7	ug/L	242	KED
|	**Ni -4**	60	938.4	4.3	**0.1811**	0.011	6.0	ug/L	100	KED
|	**Ni -5**	62	141.7	4.0	**0.1936**	0.008	4.4	ug/L	19	KED
|	**As-2**	75	1091.0	1.7	**1.8033**	0.027	1.5	ug/L	3	KED
	Y-1	89	90157.9	0.8				ug/L	98389	KED
	Rh-1	103	94642.8	1.4				ug/L	118370	KED
|>	**Ge**	72	492200.6	1.1				ug/L	720115	Standard
|>	**Tb**	159	581678.0	1.4				ug/L	850893	Standard
|>	**Ge-1**	72	90838.9	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		68.350
|>	Tb	159		68.361
|>	Ge-1	72		91.022

Quantitative Analysis - Summary Report

Sample ID: 08-156-03d 10X

Sample Date/Time: Tuesday, August 19, 2025 11:46:45
Report Date/Time: Tuesday, August 19, 2025 11:48:34
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-03d 10X.069

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	8402.1	2.3	**2.0594**	0.050	2.4	ug/L	162	Standard
|	**As**	75	13527.8	1.8	**2.8613**	0.170	5.9	ug/L	13407	Standard
|	**As-1**	75	5939.5	6.8	**2.6930**	0.178	6.6	ug/L	-163	Standard
|	**Se**	77	17008.8	0.6	**117.8584**	2.039	1.7	ug/L	118	Standard
|	**Se -1**	78	12721.0	2.7	**11.7954**	0.971	8.2	ug/L	13606	Standard
|	**Br**	79	1589130.2	0.2				ug/L	470	Standard
|	**Se -2**	82	2032.8	1.9	**10.8066**	0.103	1.0	ug/L	34	Standard
	Kr	83	1009.7	3.3				ug/L	34	Standard
|	**Ho**	165	402111.7	0.9				ug/L	745954	Standard
|	**Pb**	208	947.0	0.4	**0.0338**	0.000	0.4	ug/L	990	Standard
|	**Bi**	209	221718.4	0.9				ug/L	414898	Standard
|	**Th**	232	283579.5	1.1				ug/L	510163	Standard
|	**Ni -3**	58	5284.3	0.9	**0.5949**	0.008	1.4	ug/L	242	KED
|	**Ni -4**	60	2134.8	3.4	**0.5576**	0.022	3.9	ug/L	100	KED
|	**Ni -5**	62	507.0	3.2	**0.9387**	0.033	3.5	ug/L	19	KED
|	**As-2**	75	276.7	4.5	**0.5118**	0.025	4.8	ug/L	3	KED
	Y-1	89	77594.2	0.6				ug/L	98389	KED
	Rh-1	103	74953.8	1.7				ug/L	118370	KED
|>	**Ge**	72	395871.5	1.1				ug/L	720115	Standard
|>	**Tb**	159	466463.6	0.8				ug/L	850893	Standard
|>	**Ge-1**	72	79183.5	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		54.973
|>	Tb	159		54.820
|>	Ge-1	72		79.343

Quantitative Analysis - Summary Report

Sample ID: 08-156-01c 10X

Sample Date/Time: Tuesday, August 19, 2025 11:50:54
Report Date/Time: Tuesday, August 19, 2025 11:52:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-01c 10X.070

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	8337.1	0.5	**2.0193**	0.040	2.0	ug/L	162	Standard
|	**As**	75	15312.3	2.1	**3.5872**	0.069	1.9	ug/L	13407	Standard
|	**As-1**	75	6089.8	3.0	**2.7294**	0.070	2.6	ug/L	-163	Standard
|	**Se**	77	15956.6	0.8	**109.2917**	2.396	2.2	ug/L	118	Standard
|	**Se -1**	78	13681.2	2.6	**13.5733**	0.451	3.3	ug/L	13606	Standard
|	**Br**	79	1450925.8	1.4				ug/L	470	Standard
|	**Se -2**	82	1769.8	4.4	**9.2773**	0.367	4.0	ug/L	34	Standard
	Kr	83	844.0	2.8				ug/L	34	Standard
|	**Ho**	165	405773.6	0.7				ug/L	745954	Standard
|	**Pb**	208	1600.0	0.2	**0.0562**	0.001	1.5	ug/L	990	Standard
|	**Bi**	209	219381.6	1.5				ug/L	414898	Standard
|	**Th**	232	280564.7	0.7				ug/L	510163	Standard
|	**Ni -3**	58	5228.1	2.6	**0.5589**	0.015	2.7	ug/L	242	KED
|	**Ni -4**	60	2148.8	1.4	**0.5342**	0.008	1.5	ug/L	100	KED
|	**Ni -5**	62	454.3	5.1	**0.7968**	0.037	4.6	ug/L	19	KED
|	**As-2**	75	346.7	9.1	**0.6161**	0.054	8.8	ug/L	3	KED
	Y-1	89	84229.6	1.4				ug/L	98389	KED
	Rh-1	103	82168.3	0.6				ug/L	118370	KED
|>	**Ge**	72	400401.5	1.5				ug/L	720115	Standard
|>	**Tb**	159	470085.0	1.6				ug/L	850893	Standard
|>	**Ge-1**	72	82876.0	0.9				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		55.602
|>	Tb	159		55.246
|>	Ge-1	72		83.043

Quantitative Analysis - Summary Report

Sample ID: 08-156-02c 10X

Sample Date/Time: Tuesday, August 19, 2025 11:55:03
Report Date/Time: Tuesday, August 19, 2025 11:56:52
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-02c 10X.071

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	2238.2	1.1	0.3911	0.005	1.3	ug/L	162	Standard
|	As	75	14915.2	0.9	2.1950	0.048	2.2	ug/L	13407	Standard
|	As-1	75	4454.5	1.1	1.6472	0.016	1.0	ug/L	-163	Standard
|	Se	77	1027.7	4.5	5.3045	0.249	4.7	ug/L	118	Standard
|	Se -1	78	10744.7	1.0	2.8430	0.176	6.2	ug/L	13606	Standard
|	Br	79	68303.3	2.0				ug/L	470	Standard
|	Se -2	82	127.3	8.2	0.3806	0.044	11.6	ug/L	34	Standard
	Kr	83	40.0	19.5				ug/L	34	Standard
|	Ho	165	508810.8	2.7				ug/L	745954	Standard
|	Pb	208	5152.4	1.2	0.1441	0.001	0.4	ug/L	990	Standard
|	Bi	209	283624.5	0.4				ug/L	414898	Standard
|	Th	232	330592.1	1.2				ug/L	510163	Standard
|	Ni -3	58	4356.6	2.8	0.3842	0.012	3.2	ug/L	242	KED
|	Ni -4	60	1326.7	2.8	0.2598	0.008	3.2	ug/L	100	KED
|	Ni -5	62	226.3	7.3	0.3161	0.026	8.3	ug/L	19	KED
|	As-2	75	1042.0	3.9	1.6267	0.065	4.0	ug/L	3	KED
	Y-1	89	99866.2	0.3				ug/L	98389	KED
	Rh-1	103	103350.2	1.2				ug/L	118370	KED
|>	Ge	72	489830.2	0.3				ug/L	720115	Standard
|>	Tb	159	585488.1	1.4				ug/L	850893	Standard
|>	Ge-1	72	96075.7	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		68.021
|>	Tb	159		68.809
|>	Ge-1	72		96.269

Quantitative Analysis - Summary Report

Sample ID: 08-156-03c 10X

Sample Date/Time: Tuesday, August 19, 2025 11:59:12
Report Date/Time: Tuesday, August 19, 2025 12:01:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-03c 10X.072

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	8178.7	2.2	1.9700	0.014	0.7	ug/L	162	Standard
|	As	75	16348.1	1.8	4.0175	0.121	3.0	ug/L	13407	Standard
|	As-1	75	6481.3	9.6	2.8893	0.266	9.2	ug/L	-163	Standard
|	Se	77	16472.5	0.9	112.3235	1.627	1.4	ug/L	118	Standard
|	Se -1	78	14200.4	2.5	14.5741	0.648	4.4	ug/L	13606	Standard
|	Br	79	1466696.3	2.2				ug/L	470	Standard
|	Se -2	82	1721.4	4.3	8.9758	0.247	2.8	ug/L	34	Standard
	Kr	83	809.7	4.2				ug/L	34	Standard
|	Ho	165	405121.6	0.8				ug/L	745954	Standard
|	Pb	208	1305.4	4.4	0.0460	0.001	2.2	ug/L	990	Standard
|	Bi	209	217048.4	0.5				ug/L	414898	Standard
|	Th	232	277160.2	0.4				ug/L	510163	Standard
|	Ni -3	58	4882.7	0.4	0.5199	0.003	0.7	ug/L	242	KED
|	Ni -4	60	2035.5	1.0	0.5052	0.007	1.5	ug/L	100	KED
|	Ni -5	62	445.3	1.0	0.7832	0.006	0.7	ug/L	19	KED
|	As-2	75	337.7	3.0	0.6020	0.019	3.2	ug/L	3	KED
	Y-1	89	85115.1	0.5				ug/L	98389	KED
	Rh-1	103	84201.4	0.4				ug/L	118370	KED
|>	Ge	72	402231.1	2.2				ug/L	720115	Standard
|>	Tb	159	469650.1	2.3				ug/L	850893	Standard
|>	Ge-1	72	82582.3	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		55.857
|>	Tb	159		55.195
|>	Ge-1	72		82.749

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 12:03:22
Report Date/Time: Tuesday, August 19, 2025 12:05:11
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.073

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	233376.7	1.2	**45.2678**	0.137	0.3	ug/L	162	Standard
|	As	75	122260.4	0.7	**39.1300**	0.839	2.1	ug/L	13407	Standard
|	As-1	75	111476.8	1.1	**38.3045**	0.935	2.4	ug/L	-163	Standard
|	Se	77	7405.6	1.4	**39.0786**	0.207	0.5	ug/L	118	Standard
|	Se -1	78	32645.6	0.4	**39.1525**	0.901	2.3	ug/L	13606	Standard
|	Br	79	11529.7	3.3				ug/L	470	Standard
|	Se -2	82	8626.6	2.4	**35.6197**	1.356	3.8	ug/L	34	Standard
	Kr	83	33.3	9.2				ug/L	34	Standard
|	Ho	165	524645.5	2.2				ug/L	745954	Standard
|	Pb	208	1461562.0	0.4	**39.1771**	0.557	1.4	ug/L	990	Standard
|	Bi	209	301126.3	0.4				ug/L	414898	Standard
|	Th	232	337044.7	2.1				ug/L	510163	Standard
|	Ni -3	58	354798.4	0.7	**36.6084**	0.434	1.2	ug/L	242	KED
|	Ni -4	60	153782.3	0.4	**36.4881**	0.460	1.3	ug/L	100	KED
|	Ni -5	62	22540.8	0.4	**36.3473**	0.289	0.8	ug/L	19	KED
|	As-2	75	26183.6	0.3	**41.6610**	0.522	1.3	ug/L	3	KED
	Y-1	89	99003.6	1.0				ug/L	98389	KED
	Rh-1	103	109703.6	0.4				ug/L	118370	KED
| >	Ge	72	515612.8	1.4				ug/L	720115	Standard
| >	Tb	159	607911.5	1.7				ug/L	850893	Standard
| >	Ge-1	72	95275.7	0.9				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	113.170	
|	As	75	97.825	
|	As-1	75	95.761	
|	Se	77	97.696	
|	Se -1	78	97.881	
|	Br	79		
|	Se -2	82	89.049	
	Kr	83		
|	Ho	165		
|	Pb	208	97.943	
|	Bi	209		
|	Th	232		
|	Ni -3	58	91.521	
|	Ni -4	60	91.220	
|	Ni -5	62	90.868	
|	As-2	75	104.152	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		71.601
| >	Tb	159		71.444
| >	Ge-1	72		95.468

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 12:07:32
Report Date/Time: Tuesday, August 19, 2025 12:09:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.074

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	111917.4	0.4	**22.3694**	0.357	1.6	ug/L	162	Standard
|	As	75	65267.9	0.3	**20.0958**	0.311	1.5	ug/L	13407	Standard
|	As-1	75	54858.1	0.6	**19.4662**	0.148	0.8	ug/L	-163	Standard
|	Se	77	3714.8	2.2	**20.0018**	0.529	2.6	ug/L	118	Standard
|	Se -1	78	21242.4	0.6	**20.8996**	0.636	3.0	ug/L	13606	Standard
|	Br	79	8406.8	2.2				ug/L	470	Standard
|	Se -2	82	4282.0	3.0	**18.1508**	0.410	2.3	ug/L	34	Standard
	Kr	83	30.3	15.2				ug/L	34	Standard
|	Ho	165	502567.2	2.9				ug/L	745954	Standard
|	Pb	208	715917.7	1.3	**19.9738**	0.216	1.1	ug/L	990	Standard
|	Bi	209	291887.2	1.5				ug/L	414898	Standard
|	Th	232	327029.6	0.6				ug/L	510163	Standard
|	Ni -3	58	174701.0	0.6	**18.3018**	0.151	0.8	ug/L	242	KED
|	Ni -4	60	76024.4	0.7	**18.3191**	0.151	0.8	ug/L	100	KED
|	Ni -5	62	11236.8	1.3	**18.4050**	0.218	1.2	ug/L	19	KED
|	As-2	75	12789.7	0.5	**20.6868**	0.129	0.6	ug/L	3	KED
	Y-1	89	95750.2	1.2				ug/L	98389	KED
	Rh-1	103	106859.2	0.5				ug/L	118370	KED
|>	Ge	72	499689.6	1.4				ug/L	720115	Standard
|>	Tb	159	584074.3	2.4				ug/L	850893	Standard
|>	Ge-1	72	93675.5	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	111.847	
|	As	75	100.479	
|	As-1	75	97.331	
|	Se	77	100.009	
|	Se -1	78	104.498	
|	Br	79		
|	Se -2	82	90.754	
	Kr	83		
|	Ho	165		
|	Pb	208	99.869	
|	Bi	209		
|	Th	232		
|	Ni -3	58	91.509	
|	Ni -4	60	91.595	
|	Ni -5	62	92.025	
|	As-2	75	103.434	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		69.390
|>	Tb	159		68.642
|>	Ge-1	72		93.864

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 12:11:42
Report Date/Time: Tuesday, August 19, 2025 12:13:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.075

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	183.7	8.4	-0.0297	0.002	7.9	ug/L	162	Standard
|	As	75	10183.2	1.6	0.4063	0.147	36.2	ug/L	13407	Standard
|	As-1	75	32.8	82.2	0.0498	0.010	19.9	ug/L	-163	Standard
|	Se	77	219.7	10.5	0.7416	0.138	18.5	ug/L	118	Standard
|	Se -1	78	10224.0	1.4	1.6009	0.667	41.7	ug/L	13606	Standard
|	Br	79	6686.9	1.2				ug/L	470	Standard
|	Se -2	82	44.0	12.0	0.0131	0.018	138.8	ug/L	34	Standard
	Kr	83	24.0	4.2				ug/L	34	Standard
|	Ho	165	518768.0	1.6				ug/L	745954	Standard
|	Pb	208	1002.0	2.6	0.0279	0.001	2.3	ug/L	990	Standard
|	Bi	209	297649.3	0.8				ug/L	414898	Standard
|	Th	232	331530.2	1.7				ug/L	510163	Standard
|	Ni -3	58	269.3	9.7	-0.0339	0.003	8.1	ug/L	242	KED
|	Ni -4	60	120.0	4.3	-0.0237	0.001	4.9	ug/L	100	KED
|	Ni -5	62	26.0	27.7	-0.0035	0.012	330.5	ug/L	19	KED
|	As-2	75	13.7	29.6	0.0041	0.007	161.9	ug/L	3	KED
	Y-1	89	95016.3	0.7				ug/L	98389	KED
	Rh-1	103	104181.2	0.6				ug/L	118370	KED
|>	Ge	72	498549.7	2.4				ug/L	720115	Standard
|>	Tb	159	601204.0	0.3				ug/L	850893	Standard
|>	Ge-1	72	93521.1	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		69.232
|>	Tb	159		70.656
|>	Ge-1	72		93.710

Work continued from Page

Sht	Name	Lab ID	Source	Source ID	Exp	Initial conc ppm	Initial vol mL	Final conc ppm	Final vol mL	Comments	Init	Date
Std	1	TM12-57	6020 100x	TM12-SK-25	9-1-25	.2	.05	.0002	50	5% HNO3	ICPMS	8-18-25
	2	02	〃	〃	〃	〃	.125	.0005	〃	〃	〃	〃
	3	03	6020 10x	TM12-SK-24	〃	2	.05	.002				
	4	04	〃	〃	〃	〃	.125	.005				
	5	05	IV6020A(1)	VZMB3742024	6-16-26	20	.05	.02				
	6	06	20x	〃	〃	〃	.10	.04				
	7	07	〃	〃	〃	〃	.25	.10				
		08	IVPEGHG(1)	VZMB5739735	5-17-26	10	.25	.05	〃	〃	〃	〃
Std	1	TM12-57	6020 100x	TM12-SK-25	9-1-25	.2	.05	.0002	50	5% HNO3	ICPMS	8-20-25
	2	10	〃	〃	〃	〃	.125	.0005	〃	〃	〃	〃
	3	11	6020 10x	TM12-SK-24	〃	2	.05	.002				
	4	12	〃	〃	〃	〃	.125	.005				
	5	13	IV6020A(1)	VZMB3742024	6-16-26	20	.05	.02				
	6	14	〃	〃	〃	〃	.10	.04				
	7	15	〃	〃	〃	〃	.25	.10				
		16	IVPEGHG(1)	VZMB5739735	5-17-26	10	.25	.05	〃	〃	〃	〃
Std	1	TM12-57	6020 100x	TM12-SK-25	9-1-25	.2	.05	.0002	50	5% HNO3	ICPMS	8-22-25
	2	18	〃	〃	〃	〃	.125	.0005	〃	〃	〃	〃
	3	19	6020 10x	TM12-SK-24	〃	2	.05	.002				
	4	20	〃	〃	〃	〃	.125	.005				
	5	21	IV6020A(1)	VZMB3742024	6-16-26	20	.05	.02				
	6	22	20x	〃	〃	〃	.10	.04				
	7	23	〃	〃	〃	〃	.25	.10				
		24	IVPEGHG(1)	VZMB5739735	5-17-26	10	.25	.05	〃	〃	〃	〃
Std	1	TM12-57	6020 100x	TM12-SK-25	9-1-25	.2	.05	.0002	50	5% HNO3	ICPMS	8-26-25
	2	26	〃	〃	〃	〃	.125	.0005	〃	〃	〃	〃
	3	27	6020 10x	TM12-SK-24	〃	2	.05	.002				
	4	28	〃	〃	〃	〃	.125	.005				
	5	29	IV6020A(1)	VZMB3742024	6-16-26	20	.05	.02				
	6	30	20x	〃	〃	〃	.10	.04				
	7	31	〃	〃	〃	〃	.25	.10				
		32	IVPEGHG(1)	VZMB5739735	5-17-26	10	.25	.05	〃	〃	〃	〃

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

DIGESTION DATE:	8-19-25
ANALYST:	KDN

QC BATCH #:	08-183-106
MATRIX:	water
ANALYSIS METHOD:	3015

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MB0819WM1	45mL	50			
SB0819WM1					
08-183-106					
106D					
106MS					
106MSD					
08-131-01					
02					
03					
08-136-01C					
02C					
03C					
04C					
05C					
06C					
08-139-01C					
08-156-01C					
02C					
03C					

8/20/25

SPIKE ID# ICV6020Cal-1 VOL ADDED: .25ml

Dissolved Metals
EPA 200.8 Data

Dataset Report

8-19-25

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\
Report Date/Time: Tuesday, August 19, 2025 12:13:47

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [	[STD/KED] Nebulizer (	07:08:06 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - [	[STD/KED] Nebulizer (	07:09:16 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - C	QID	07:11:50 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - C	QID	07:13:58 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - C	QID	07:16:08 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - M	Mass Calibration and F	07:19:25 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - [	[STD] Performance Ch	07:20:09 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - [	[STD] Performance Ch	07:23:28 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Sample	07:30:55 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Sample	07:35:06 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Sample	07:39:17 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Blank	07:43:27 Tue 19-A	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 1	07:46:47 Tue 19-A	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 2	07:50:08 Tue 19-A	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 3	07:53:28 Tue 19-A	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 4	07:56:49 Tue 19-A	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 5	08:00:09 Tue 19-A	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 6	08:03:30 Tue 19-A	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	Standard 7	08:06:50 Tue 19-A	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 1	08:11:00 Tue 19-A	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 2	08:15:11 Tue 19-A	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
SmartTune - D	Dual Detector Calibrati	08:17:17 Tue 19-A	Sample	C:\Users\Public\Docum	Dual Cal. Blank gistix\ICPMS\DataSet\Y25081
SmartTune - D	Dual Detector Calibrati	08:17:26 Tue 19-A	Sample	C:\Users\Public\Docum	Dual Calibration gistix\ICPMS\DataSet\Y25081
	QC Std 2	08:29:27 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 6	08:33:38 Tue 19-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 7	08:37:48 Tue 19-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 8	08:41:58 Tue 19-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	MB0819WM1 2X	08:51:09 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	SB0819WM1 2X	08:55:19 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-183-10b 2X	09:00:29 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-183-10b D 2X	09:04:39 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-183-10b L 10X	09:08:49 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-183-10b MS 2X	09:12:58 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-183-10b MSD 2X	09:17:08 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-183-10b PS 2X	09:21:19 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-131-01 2X	09:25:30 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-131-02 2X	09:29:39 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 6	09:33:49 Tue 19-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 7	09:37:59 Tue 19-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	QC Std 8	09:42:10 Tue 19-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-131-03 2X	09:48:39 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-01c 2X	09:52:49 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-02c 2X	09:56:58 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-03c 2X	10:01:08 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-04c 2X	10:05:17 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-05c 2X	10:09:26 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-06c 2X	10:13:34 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	MB0819D1 2X	10:17:43 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	SB0819D1 2X	10:21:52 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	
	08-136-01d 2X	10:27:43 Tue 19-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y25081	

QC Std 6	10:31:54 Tue 19-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 7	10:36:04 Tue 19-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 8	10:40:15 Tue 19-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d D 2X	10:45:15 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d L 10X	10:49:26 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d MS 2X	10:53:35 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-01d MSD 2X	10:57:43 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-02d 2X	11:01:52 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-03d 2X	11:06:01 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-04d 2X	11:10:11 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-05d 2X	11:14:19 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-136-06d 2X	11:18:28 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-139-01c 2X wm1	11:22:36 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 6	11:26:45 Tue 19-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 7	11:30:56 Tue 19-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 8	11:35:06 Tue 19-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-01d 10X 01	11:38:26 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-02d 10X 1	11:42:36 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-03d 10X 1	11:46:45 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-01c 10X wm1	11:50:54 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-02c 10X 1	11:55:03 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
08-156-03c 10X 1	11:59:12 Tue 19-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 6	12:03:22 Tue 19-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 7	12:07:32 Tue 19-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819
QC Std 8	12:11:42 Tue 19-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819

SmartTune Wizard - Details

Optimization Details

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

Optimization Status

Start Time: 8/19/2025 7:19:25 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 (0.7/0.692)
        Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.694)
        Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.695)
        Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.717)
        Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.716)
[Passed] Optimum value(s): N/A

End Time: 8/19/2025 7:19:54 AM

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Tuesday, August 19, 2025 07:23:28
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\Y250819A\[STD] Performance Check.008
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	55632.3	55632.316	327.444	0.6	Standard
	In	114.9	321629.4	321629.428	477.688	0.1	Standard
	U	238.1	316445.6	316445.592	1016.016	0.3	Standard
Ce	CeO	155.9	8121.8	0.024	0.000	0.7	Standard
Ce	Ce++	70.0	8268.5	0.024	0.000	1.9	Standard
	Bkgd	220.5	0.4	0.367	0.361	98.5	Standard
	Ce	139.9	341987.2	341987.154	2755.325	0.8	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.99	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
-1825.00	Standard - Analog Stage
1500.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-8.00	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
0.99	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: 8/19/2025 7:23:28 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): 55632.32
Obtained Intensity (In 115): 321629.43
Obtained Intensity (U 238): 316445.59
Obtained Intensity (Bkgd 220.5): 0.37
Obtained Formula (Ce++ 70 ÷ Ce 140): 0.024 (=8268.46 ÷ 341987.15)
Obtained Formula (CeO 156 ÷ Ce 140): 0.024 (=8121.84 ÷ 341987.15)
Obtained RSD (Li 7): 0.0059
Obtained RSD (In 115): 0.0015
Obtained RSD (U 238): 0.0032

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

End Time: 8/19/2025 7:25:33 AM

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni -1	59.933	Weighted Linear	0.01	0.00	0.999278
As	74.922	Weighted Linear	0.01	-0.00	0.999382
As-1	74.922	Weighted Linear	0.01	0.00	0.999485
Se	76.920	Weighted Linear	0.00	0.00	0.999501
Se -1	77.917	Weighted Linear	0.00	-0.00	0.998451
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	0.00	0.999596
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.06	-0.00	0.999621
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Ni -3	57.935	Weighted Linear	0.10	0.00	0.999437
Ni -4	59.933	Weighted Linear	0.04	0.00	0.999259
Ni -5	61.928	Weighted Linear	0.01	0.00	0.999178
As-2	74.922	Weighted Linear	0.01	0.00	0.999354
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	71.922	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	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: Tuesday, August 19, 2025 07:43:27
Report Date/Time: Tuesday, August 19, 2025 08:27:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Blank.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	161.7	7.5				ug/L		Standard
|	As	75	13407.0	1.8				ug/L		Standard
|	As-1	75	-163.2	13.9				ug/L		Standard
|	Se	77	118.3	1.8				ug/L		Standard
|	Se -1	78	13606.5	2.0				ug/L		Standard
|	Br	79	469.7	4.2				ug/L		Standard
|	Se -2	82	34.3	11.0				ug/L		Standard
	Kr	83	34.0	30.7				ug/L		Standard
|	Ho	165	745953.5	0.6				ug/L		Standard
|	Pb	208	989.7	1.3				ug/L		Standard
|	Bi	209	414898.3	1.3				ug/L		Standard
|	Th	232	510162.7	0.5				ug/L		Standard
|	Ni -3	58	242.0	10.6				ug/L		KED
|	Ni -4	60	99.7	4.7				ug/L		KED
|	Ni -5	62	19.3	16.6				ug/L		KED
|	As-2	75	3.3	62.4				ug/L		KED
	Y-1	89	98389.3	0.3				ug/L		KED
	Rh-1	103	118370.1	0.9				ug/L		KED
|>	Ge	72	720114.9	3.3				ug/L		Standard
|>	Tb	159	850893.4	1.4				ug/L		Standard
|>	Ge-1	72	99798.7	0.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, August 19, 2025 07:46:47
Report Date/Time: Tuesday, August 19, 2025 08:27:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 1.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	1566.8	2.2				ug/L	162	Standard
|	As	75	13988.8	0.8				ug/L	13407	Standard
|	As-1	75	696.4	5.4				ug/L	-163	Standard
|	Se	77	177.0	3.5				ug/L	118	Standard
|	Se -1	78	13507.4	0.7				ug/L	13606	Standard
|	Br	79	504.0	6.7				ug/L	470	Standard
|	Se -2	82	104.3	19.0				ug/L	34	Standard
	Kr	83	29.7	12.8				ug/L	34	Standard
|	Ho	165	817085.0	0.7				ug/L	745954	Standard
|	Pb	208	11473.4	0.8	**0.1931**	0.001	0.4	ug/L	990	Standard
|	Bi	209	457844.7	0.2				ug/L	414898	Standard
|	Th	232	580714.0	1.1				ug/L	510163	Standard
|	Ni -3	58	2306.6	0.8	**0.1451**	0.002	1.6	ug/L	242	KED
|	Ni -4	60	981.0	2.5	**0.1243**	0.006	4.6	ug/L	100	KED
|	Ni -5	62	154.3	6.1	**0.1435**	0.015	10.6	ug/L	19	KED
|	As-2	75	156.0	5.1	**0.1949**	0.011	5.8	ug/L	3	KED
	Y-1	89	109486.7	1.1				ug/L	98389	KED
	Rh-1	103	131270.7	0.5				ug/L	118370	KED
| >	Ge	72	777443.8	1.2				ug/L	720115	Standard
| >	Tb	159	952837.3	0.8				ug/L	850893	Standard
| >	Ge-1	72	110516.8	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	Tb	159		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, August 19, 2025 07:50:08
Report Date/Time: Tuesday, August 19, 2025 08:27:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 2.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	4004.9	1.9				ug/L	162	Standard
|	**As**	75	14952.6	1.0				ug/L	13407	Standard
|	**As-1**	75	1944.0	2.7	**0.5000**	0.014	2.8	ug/L	-163	Standard
|	**Se**	77	251.7	5.6				ug/L	118	Standard
|	**Se -1**	78	13534.4	1.0				ug/L	13606	Standard
|	**Br**	79	484.0	8.1				ug/L	470	Standard
|	**Se -2**	82	226.3	10.0				ug/L	34	Standard
	Kr	83	30.7	29.6				ug/L	34	Standard
|	**Ho**	165	760216.8	1.9				ug/L	745954	Standard
|	**Pb**	208	28033.3	1.2	**0.5100**	0.002	0.5	ug/L	990	Standard
|	**Bi**	209	428260.7	0.8				ug/L	414898	Standard
|	**Th**	232	535359.9	1.1				ug/L	510163	Standard
|	**Ni -3**	58	5820.0	1.0	**0.4956**	0.009	1.8	ug/L	242	KED
|	**Ni -4**	60	2486.2	0.3	**0.4946**	0.003	0.6	ug/L	100	KED
|	**Ni -5**	62	361.3	1.2	**0.4926**	0.005	1.1	ug/L	19	KED
|	**As-2**	75	366.3	4.0	**0.5220**	0.020	3.8	ug/L	3	KED
	Y-1	89	101370.1	0.5				ug/L	98389	KED
	Rh-1	103	121342.2	1.0				ug/L	118370	KED
|>	**Ge**	72	714196.8	0.9				ug/L	720115	Standard
|>	**Tb**	159	884358.4	1.5				ug/L	850893	Standard
|>	**Ge-1**	72	102600.5	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, August 19, 2025 07:53:28
Report Date/Time: Tuesday, August 19, 2025 08:27:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 3.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	14686.9	1.1	**2.0000**	0.019	1.0	ug/L	162	Standard
|	**As**	75	20574.3	1.2	**2.0000**	0.066	3.3	ug/L	13407	Standard
|	**As-1**	75	7754.1	0.2	**1.9694**	0.012	0.6	ug/L	-163	Standard
|	**Se**	77	633.7	1.6	**2.0000**	0.031	1.5	ug/L	118	Standard
|	**Se -1**	78	14507.0	1.5				ug/L	13606	Standard
|	**Br**	79	498.0	4.4				ug/L	470	Standard
|	**Se -2**	82	683.3	1.3	**2.0000**	0.018	0.9	ug/L	34	Standard
	Kr	83	29.0	15.0				ug/L	34	Standard
|	**Ho**	165	721366.5	1.0				ug/L	745954	Standard
|	**Pb**	208	101717.7	0.2	**2.0014**	0.023	1.1	ug/L	990	Standard
|	**Bi**	209	411074.2	0.3				ug/L	414898	Standard
|	**Th**	232	509879.4	0.3				ug/L	510163	Standard
|	**Ni -3**	58	21602.9	0.2	**2.1828**	0.009	0.4	ug/L	242	KED
|	**Ni -4**	60	9340.1	0.7	**2.1705**	0.024	1.1	ug/L	100	KED
|	**Ni -5**	62	1380.7	1.7	**2.1646**	0.032	1.5	ug/L	19	KED
|	**As-2**	75	1364.1	3.5	**2.0392**	0.067	3.3	ug/L	3	KED
	Y-1	89	98362.8	0.6				ug/L	98389	KED
	Rh-1	103	118222.5	1.1				ug/L	118370	KED
|>	**Ge**	72	690579.8	0.5				ug/L	720115	Standard
|>	**Tb**	159	815162.5	0.9				ug/L	850893	Standard
|>	**Ge-1**	72	100824.5	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, August 19, 2025 07:56:49
Report Date/Time: Tuesday, August 19, 2025 08:27:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 4.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	35311.3	0.8	**4.9520**	0.060	1.2	ug/L	162	Standard
|	**As**	75	31647.9	1.0	**4.8957**	0.023	0.5	ug/L	13407	Standard
|	**As-1**	75	19310.2	1.7	**4.9219**	0.048	1.0	ug/L	-163	Standard
|	**Se**	77	1342.1	3.5	**4.8932**	0.149	3.0	ug/L	118	Standard
|	**Se -1**	78	16570.6	0.8	**5.0000**	0.103	2.1	ug/L	13606	Standard
|	**Br**	79	458.3	5.5				ug/L	470	Standard
|	**Se -2**	82	1685.4	3.1	**5.1014**	0.127	2.5	ug/L	34	Standard
	Kr	83	32.7	3.5				ug/L	34	Standard
|	**Ho**	165	695385.6	1.0				ug/L	745954	Standard
|	**Pb**	208	247052.5	1.0	**4.9691**	0.111	2.2	ug/L	990	Standard
|	**Bi**	209	409103.5	0.4				ug/L	414898	Standard
|	**Th**	232	509070.1	1.2				ug/L	510163	Standard
|	**Ni -3**	58	52587.1	0.8	**5.3947**	0.035	0.6	ug/L	242	KED
|	**Ni -4**	60	23181.1	0.7	**5.4458**	0.036	0.7	ug/L	100	KED
|	**Ni -5**	62	3359.1	2.2	**5.3259**	0.125	2.4	ug/L	19	KED
|	**As-2**	75	3331.7	1.8	**5.0211**	0.069	1.4	ug/L	3	KED
	Y-1	89	99359.4	1.2				ug/L	98389	KED
	Rh-1	103	118605.4	1.0				ug/L	118370	KED
|>	**Ge**	72	687523.9	0.7				ug/L	720115	Standard
|>	**Tb**	159	802452.4	2.6				ug/L	850893	Standard
|>	**Ge-1**	72	101235.8	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Tuesday, August 19, 2025 08:00:09
Report Date/Time: Tuesday, August 19, 2025 08:27:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 5.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	132687.0	0.7	19.8631	0.089	0.4	ug/L	162	Standard
|	As	75	86665.2	2.1	20.0762	0.575	2.9	ug/L	13407	Standard
|	As-1	75	74804.6	2.2	19.9896	0.526	2.6	ug/L	-163	Standard
|	Se	77	4951.2	1.8	20.2328	0.354	1.8	ug/L	118	Standard
|	Se -1	78	27889.5	1.3	20.7906	0.409	2.0	ug/L	13606	Standard
|	Br	79	416.3	2.5				ug/L	470	Standard
|	Se -2	82	6330.7	0.2	20.4296	0.233	1.1	ug/L	34	Standard
	Kr	83	35.7	1.6				ug/L	34	Standard
|	Ho	165	669439.7	1.5				ug/L	745954	Standard
|	Pb	208	942755.8	1.8	19.7835	0.441	2.2	ug/L	990	Standard
|	Bi	209	385678.2	0.5				ug/L	414898	Standard
|	Th	232	480972.4	0.4				ug/L	510163	Standard
|	Ni -3	58	199630.3	0.6	21.3063	0.046	0.2	ug/L	242	KED
|	Ni -4	60	86854.2	1.1	21.2288	0.126	0.6	ug/L	100	KED
|	Ni -5	62	12862.8	1.5	21.2368	0.422	2.0	ug/L	19	KED
|	As-2	75	12777.0	0.3	20.2656	0.056	0.3	ug/L	3	KED
	Y-1	89	93565.5	1.5				ug/L	98389	KED
	Rh-1	103	109566.0	2.0				ug/L	118370	KED
| >	Ge	72	651812.6	1.1				ug/L	720115	Standard
| >	Tb	159	769293.4	0.6				ug/L	850893	Standard
| >	Ge-1	72	95978.0	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Tuesday, August 19, 2025 08:03:30
Report Date/Time: Tuesday, August 19, 2025 08:27:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 6.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	267604.7	1.1	**39.6817**	0.303	0.8	ug/L	162	Standard
|	**As**	75	160473.5	1.6	**39.4778**	0.462	1.2	ug/L	13407	Standard
|	**As-1**	75	149125.2	1.6	**39.4308**	0.428	1.1	ug/L	-163	Standard
|	**Se**	77	9921.8	0.6	**40.2964**	0.500	1.2	ug/L	118	Standard
|	**Se -1**	78	43313.9	1.3	**40.1956**	0.462	1.2	ug/L	13606	Standard
|	**Br**	79	428.7	4.2				ug/L	470	Standard
|	**Se -2**	82	12606.9	0.8	**40.1886**	0.115	0.3	ug/L	34	Standard
	Kr	83	39.3	12.8				ug/L	34	Standard
|	**Ho**	165	664111.7	1.9				ug/L	745954	Standard
|	**Pb**	208	1878647.3	0.4	**39.6106**	0.592	1.5	ug/L	990	Standard
|	**Bi**	209	387241.0	1.1				ug/L	414898	Standard
|	**Th**	232	487042.7	1.2				ug/L	510163	Standard
|	**Ni -3**	58	397457.8	0.7	**40.8476**	0.049	0.1	ug/L	242	KED
|	**Ni -4**	60	171940.2	0.8	**40.5681**	0.039	0.1	ug/L	100	KED
|	**Ni -5**	62	25385.5	0.7	**40.5654**	0.610	1.5	ug/L	19	KED
|	**As-2**	75	25789.6	1.5	**40.1649**	0.296	0.7	ug/L	3	KED
	Y-1	89	95274.1	2.1				ug/L	98389	KED
	Rh-1	103	111702.4	1.4				ug/L	118370	KED
| >	**Ge**	72	661092.6	0.6				ug/L	720115	Standard
| >	**Tb**	159	760286.6	1.7				ug/L	850893	Standard
| >	**Ge-1**	72	96650.5	0.8				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	Tb	159		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Tuesday, August 19, 2025 08:06:50
Report Date/Time: Tuesday, August 19, 2025 08:27:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\Standard 7.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	646826.0	1.3	**93.4326**	0.161	0.2	ug/L	162	Standard
|	**As**	75	379478.3	0.7	**94.6182**	0.841	0.9	ug/L	13407	Standard
|	**As-1**	75	370799.4	0.9	**94.7385**	0.647	0.7	ug/L	-163	Standard
|	**Se**	77	24130.0	1.3	**95.4303**	1.088	1.1	ug/L	118	Standard
|	**Se -1**	78	88223.6	1.0	**95.3048**	0.536	0.6	ug/L	13606	Standard
|	**Br**	79	432.7	2.7				ug/L	470	Standard
|	**Se -2**	82	31342.7	1.9	**96.5638**	0.487	0.5	ug/L	34	Standard
	Kr	83	47.0	14.7				ug/L	34	Standard
|	**Ho**	165	702207.6	1.7				ug/L	745954	Standard
|	**Pb**	208	4682232.0	1.0	**95.5570**	1.742	1.8	ug/L	990	Standard
|	**Bi**	209	402802.6	0.6				ug/L	414898	Standard
|	**Th**	232	508314.1	0.5				ug/L	510163	Standard
|	**Ni -3**	58	966218.3	0.6	**94.1361**	0.431	0.5	ug/L	242	KED
|	**Ni -4**	60	416537.6	0.8	**93.3055**	0.761	0.8	ug/L	100	KED
|	**Ni -5**	62	61100.1	1.0	**93.0071**	0.710	0.8	ug/L	19	KED
|	**As-2**	75	62793.0	0.6	**94.2628**	0.509	0.5	ug/L	3	KED
	Y-1	89	98949.5	0.6				ug/L	98389	KED
	Rh-1	103	116355.3	0.7				ug/L	118370	KED
|>	**Ge**	72	692903.1	1.4				ug/L	720115	Standard
|>	**Tb**	159	798392.5	0.9				ug/L	850893	Standard
|>	**Ge-1**	72	101000.4	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	Tb	159		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, August 19, 2025 08:11:00
Report Date/Time: Tuesday, August 19, 2025 08:27:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 1.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	338416.1	1.9	**46.6233**	0.261	0.6	ug/L	162	Standard
|	As	75	203124.6	0.5	**46.7561**	0.537	1.1	ug/L	13407	Standard
|	As-1	75	193174.7	0.7	**47.1299**	0.361	0.8	ug/L	-163	Standard
|	Se	77	12435.4	1.2	**46.7062**	0.888	1.9	ug/L	118	Standard
|	Se -1	78	51509.0	1.2	**45.8634**	1.610	3.5	ug/L	13606	Standard
|	Br	79	435.0	5.8				ug/L	470	Standard
|	Se -2	82	16383.4	2.0	**48.1002**	1.230	2.6	ug/L	34	Standard
	Kr	83	39.3	15.3				ug/L	34	Standard
|	Ho	165	759448.1	0.6				ug/L	745954	Standard
|	Pb	208	2523095.0	1.4	**47.1576**	1.337	2.8	ug/L	990	Standard
|	Bi	209	430709.3	0.7				ug/L	414898	Standard
|	Th	232	536961.6	1.2				ug/L	510163	Standard
|	Ni -3	58	506057.9	0.3	**47.2631**	0.278	0.6	ug/L	242	KED
|	Ni -4	60	219214.1	0.2	**47.0764**	0.183	0.4	ug/L	100	KED
|	Ni -5	62	32058.9	0.4	**46.7889**	0.392	0.8	ug/L	19	KED
|	As-2	75	32653.3	1.1	**47.0091**	0.284	0.6	ug/L	3	KED
	Y-1	89	104644.9	0.8				ug/L	98389	KED
	Rh-1	103	122289.2	0.4				ug/L	118370	KED
|>	Ge	72	725938.3	1.5				ug/L	720115	Standard
|>	Tb	159	871976.7	1.9				ug/L	850893	Standard
|>	Ge-1	72	105294.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	93.247	
|	As	75	93.512	
|	As-1	75	94.260	
|	Se	77	93.412	
|	Se -1	78	91.727	
|	Br	79		
|	Se -2	82	96.200	
	Kr	83		
|	Ho	165		
|	Pb	208	94.315	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.526	
|	Ni -4	60	94.153	
|	Ni -5	62	93.578	
|	As-2	75	94.018	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		100.809
|>	Tb	159		102.478
|>	Ge-1	72		105.507

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, August 19, 2025 08:29:27
Report Date/Time: Tuesday, August 19, 2025 08:31:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 2.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	199.0	10.1	**-0.0390**	0.002	4.9	ug/L	162	Standard
|	**As**	75	12866.1	2.4	**-0.0638**	0.049	77.1	ug/L	13407	Standard
|	**As-1**	75	-14.4	249.4	**0.0344**	0.009	26.1	ug/L	-163	Standard
|	**Se**	77	134.7	2.6	**0.0404**	0.006	15.5	ug/L	118	Standard
|	**Se -1**	78	13013.3	2.2	**-0.5984**	0.248	41.5	ug/L	13606	Standard
|	**Br**	79	446.7	6.7				ug/L	470	Standard
|	**Se -2**	82	71.3	4.5	**0.0360**	0.012	34.2	ug/L	34	Standard
	Kr	83	37.3	10.1				ug/L	34	Standard
|	**Ho**	165	798966.8	2.5				ug/L	745954	Standard
|	**Pb**	208	3196.8	9.5	**0.0566**	0.004	7.3	ug/L	990	Standard
|	**Bi**	209	437626.2	0.8				ug/L	414898	Standard
|	**Th**	232	510685.6	0.7				ug/L	510163	Standard
|	**Ni -3**	58	262.8	6.3	**-0.0348**	0.002	5.7	ug/L	242	KED
|	**Ni -4**	60	108.3	2.3	**-0.0267**	0.001	2.2	ug/L	100	KED
|	**Ni -5**	62	19.0	26.3	**-0.0152**	0.008	55.2	ug/L	19	KED
|	**As-2**	75	17.7	6.5	**0.0104**	0.002	20.3	ug/L	3	KED
	Y-1	89	95946.1	0.7				ug/L	98389	KED
	Rh-1	103	115593.5	0.5				ug/L	118370	KED
| >	**Ge**	72	722636.8	3.2				ug/L	720115	Standard
| >	**Tb**	159	930603.0	2.8				ug/L	850893	Standard
| >	**Ge-1**	72	94190.2	0.8				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		100.350
| >	Tb	159		109.368
| >	Ge-1	72		94.380

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 08:33:38
Report Date/Time: Tuesday, August 19, 2025 08:35:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	246032.7	1.1	**36.0855**	1.549	4.3	ug/L	162	Standard
|	**As**	75	168531.2	2.4	**40.9000**	0.439	1.1	ug/L	13407	Standard
|	**As-1**	75	157485.0	2.5	**40.8910**	0.375	0.9	ug/L	-163	Standard
|	**Se**	77	10594.3	4.2	**42.2790**	0.451	1.1	ug/L	118	Standard
|	**Se -1**	78	45915.0	2.2	**42.6538**	0.783	1.8	ug/L	13606	Standard
|	**Br**	79	440.7	1.5				ug/L	470	Standard
|	**Se -2**	82	13750.0	2.7	**42.9345**	0.542	1.3	ug/L	34	Standard
	Kr	83	37.3	21.8				ug/L	34	Standard
|	**Ho**	165	731834.3	2.0				ug/L	745954	Standard
|	**Pb**	208	1947048.3	1.1	**38.4150**	0.085	0.2	ug/L	990	Standard
|	**Bi**	209	404926.0	2.9				ug/L	414898	Standard
|	**Th**	232	481739.5	0.8				ug/L	510163	Standard
|	**Ni -3**	58	359094.1	0.5	**38.0373**	0.252	0.7	ug/L	242	KED
|	**Ni -4**	60	156199.6	0.5	**38.0472**	0.299	0.8	ug/L	100	KED
|	**Ni -5**	62	23068.3	0.3	**38.1878**	0.162	0.4	ug/L	19	KED
|	**As-2**	75	24314.0	0.1	**39.7112**	0.151	0.4	ug/L	3	KED
	Y-1	89	93656.7	0.2				ug/L	98389	KED
	Rh-1	103	110500.1	0.7				ug/L	118370	KED
|>	**Ge**	72	682285.3	3.4				ug/L	720115	Standard
|>	**Tb**	159	825762.4	0.9				ug/L	850893	Standard
|>	**Ge-1**	72	92808.2	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	90.214	
|	As	75	102.250	
|	As-1	75	102.227	
|	Se	77	105.698	
|	Se -1	78	106.635	
|	Br	79		
|	Se -2	82	107.336	
	Kr	83		
|	Ho	165		
|	Pb	208	96.037	
|	Bi	209		
|	Th	232		
|	Ni -3	58	95.093	
|	Ni -4	60	95.118	
|	Ni -5	62	95.469	
|	As-2	75	99.278	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		94.747
|>	Tb	159		97.047
|>	Ge-1	72		92.995

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 08:37:48
Report Date/Time: Tuesday, August 19, 2025 08:39:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	119179.4	0.4	**18.0853**	0.648	3.6	ug/L	162	Standard
|	**As**	75	86902.8	4.1	**20.3461**	0.383	1.9	ug/L	13407	Standard
|	**As-1**	75	75897.0	4.0	**20.4431**	0.327	1.6	ug/L	-163	Standard
|	**Se**	77	5093.9	3.1	**20.8430**	0.196	0.9	ug/L	118	Standard
|	**Se -1**	78	28014.1	2.6	**20.9502**	0.541	2.6	ug/L	13606	Standard
|	**Br**	79	406.0	4.9				ug/L	470	Standard
|	**Se -2**	82	6715.2	1.8	**21.6564**	0.470	2.2	ug/L	34	Standard
	Kr	83	41.0	10.6				ug/L	34	Standard
|	**Ho**	165	687471.3	2.4				ug/L	745954	Standard
|	**Pb**	208	928273.4	2.7	**19.0714**	0.040	0.2	ug/L	990	Standard
|	**Bi**	209	377533.2	2.3				ug/L	414898	Standard
|	**Th**	232	452784.8	2.2				ug/L	510163	Standard
|	**Ni -3**	58	178565.8	0.2	**19.2788**	0.101	0.5	ug/L	242	KED
|	**Ni -4**	60	77544.9	0.5	**19.2564**	0.116	0.6	ug/L	100	KED
|	**Ni -5**	62	11495.3	1.0	**19.4035**	0.116	0.6	ug/L	19	KED
|	**As-2**	75	12099.8	1.6	**20.1662**	0.370	1.8	ug/L	3	KED
	Y-1	89	91306.2	0.9				ug/L	98389	KED
	Rh-1	103	108012.5	1.4				ug/L	118370	KED
| >	**Ge**	72	658229.0	4.0				ug/L	720115	Standard
| >	**Tb**	159	793000.8	2.5				ug/L	850893	Standard
| >	**Ge-1**	72	90912.0	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	90.427	
|	As	75	101.730	
|	As-1	75	102.216	
|	Se	77	104.215	
|	Se -1	78	104.751	
|	Br	79		
|	Se -2	82	108.282	
	Kr	83		
|	Ho	165		
|	Pb	208	95.357	
|	Bi	209		
|	Th	232		
|	Ni -3	58	96.394	
|	Ni -4	60	96.282	
|	Ni-5	62	97.017	
|	As-2	75	100.831	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		91.406
| >	Tb	159		93.196
| >	Ge-1	72		91.095

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 08:41:58
Report Date/Time: Tuesday, August 19, 2025 08:43:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	146.3	1.0	**-0.0443**	0.001	2.6	ug/L	162	Standard
|	**As**	75	12116.7	2.3	**0.0366**	0.061	165.5	ug/L	13407	Standard
|	**As-1**	75	-39.3	32.2	**0.0274**	0.004	13.8	ug/L	-163	Standard
|	**Se**	77	110.3	7.3	**-0.0126**	0.024	194.1	ug/L	118	Standard
|	**Se -1**	78	12243.2	2.1	**-0.1158**	0.325	280.9	ug/L	13606	Standard
|	**Br**	79	396.0	4.6				ug/L	470	Standard
|	**Se -2**	82	52.3	2.9	**-0.0055**	0.011	196.7	ug/L	34	Standard
	Kr	83	36.7	4.2				ug/L	34	Standard
|	**Ho**	165	669136.7	2.0				ug/L	745954	Standard
|	**Pb**	208	1178.0	7.5	**0.0255**	0.001	5.6	ug/L	990	Standard
|	**Bi**	209	377512.4	3.1				ug/L	414898	Standard
|	**Th**	232	447233.6	1.7				ug/L	510163	Standard
|	**Ni -3**	58	215.1	6.8	**-0.0393**	0.002	4.4	ug/L	242	KED
|	**Ni -4**	60	84.3	4.9	**-0.0321**	0.001	3.8	ug/L	100	KED
|	**Ni -5**	62	14.0	7.1	**-0.0230**	0.002	7.5	ug/L	19	KED
|	**As-2**	75	8.0	37.5	**-0.0050**	0.005	97.2	ug/L	3	KED
	Y-1	89	92502.5	0.7				ug/L	98389	KED
	Rh-1	103	108842.4	0.5				ug/L	118370	KED
|>	**Ge**	72	659920.7	4.1				ug/L	720115	Standard
|>	**Tb**	159	773404.9	1.8				ug/L	850893	Standard
|>	**Ge-1**	72	92311.6	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		91.641
|>	Tb	159		90.893
|>	Ge-1	72		92.498

Quantitative Analysis - Summary Report

Sample ID: MB0819WM1 2X

Sample Date/Time: Tuesday, August 19, 2025 08:51:09
Report Date/Time: Tuesday, August 19, 2025 08:52:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\MB0819WM1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	315.3	9.0	**-0.0159**	0.005	33.7	ug/L	162	Standard
|	**As**	75	12047.4	1.1	**0.2044**	0.024	11.5	ug/L	13407	Standard
|	**As-1**	75	-61.1	40.3	**0.0207**	0.007	34.0	ug/L	-163	Standard
|	**Se**	77	88.0	17.8	**-0.0836**	0.075	89.6	ug/L	118	Standard
|	**Se -1**	78	12157.8	1.1	**0.6939**	0.109	15.7	ug/L	13606	Standard
|	**Br**	79	356.3	9.0				ug/L	470	Standard
|	**Se -2**	82	37.3	17.0	**-0.0474**	0.021	44.7	ug/L	34	Standard
	Kr	83	31.7	17.4				ug/L	34	Standard
|	**Ho**	165	637384.7	1.8				ug/L	745954	Standard
|	**Pb**	208	1442.7	0.8	**0.0325**	0.000	1.3	ug/L	990	Standard
|	**Bi**	209	361721.3	1.2				ug/L	414898	Standard
|	**Th**	232	433359.4	1.2				ug/L	510163	Standard
|	**Ni -3**	58	457.9	5.2	**-0.0121**	0.003	20.9	ug/L	242	KED
|	**Ni -4**	60	192.0	7.0	**-0.0044**	0.003	66.6	ug/L	100	KED
|	**Ni -5**	62	26.3	17.1	**-0.0012**	0.007	587.3	ug/L	19	KED
|	**As-2**	75	5.7	73.5	**-0.0086**	0.007	82.2	ug/L	3	KED
	Y-1	89	90805.7	0.8				ug/L	98389	KED
	Rh-1	103	103583.9	0.5				ug/L	118370	KED
|>	**Ge**	72	623983.2	1.8				ug/L	720115	Standard
|>	**Tb**	159	740068.6	1.5				ug/L	850893	Standard
|>	**Ge-1**	72	89836.9	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		86.651
|>	Tb	159		86.975
|>	Ge-1	72		90.018

Quantitative Analysis - Summary Report

Sample ID: SB0819WM1 2X

Sample Date/Time: Tuesday, August 19, 2025 08:55:19
Report Date/Time: Tuesday, August 19, 2025 08:57:07
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\SB0819WM1 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	306467.8	0.3	**44.9687**	0.192	0.4	ug/L	162	Standard
|	**As**	75	194337.0	0.3	**47.7013**	0.345	0.7	ug/L	13407	Standard
|	**As-1**	75	184512.2	0.1	**47.9419**	0.235	0.5	ug/L	-163	Standard
|	**Se**	77	11974.0	1.1	**47.9058**	0.668	1.4	ug/L	118	Standard
|	**Se -1**	78	49229.0	1.3	**46.9660**	1.042	2.2	ug/L	13606	Standard
|	**Br**	79	400.0	3.1				ug/L	470	Standard
|	**Se -2**	82	15534.4	0.5	**48.5707**	0.409	0.8	ug/L	34	Standard
	Kr	83	40.0	13.9				ug/L	34	Standard
|	**Ho**	165	712755.5	3.5				ug/L	745954	Standard
|	**Pb**	208	2324727.3	0.4	**46.0495**	0.294	0.6	ug/L	990	Standard
|	**Bi**	209	401335.3	0.9				ug/L	414898	Standard
|	**Th**	232	481635.1	0.2				ug/L	510163	Standard
|	**Ni -3**	58	466523.7	0.6	**45.3169**	0.387	0.9	ug/L	242	KED
|	**Ni -4**	60	203953.3	0.8	**45.5552**	0.442	1.0	ug/L	100	KED
|	**Ni -5**	62	29828.8	0.4	**45.2791**	0.322	0.7	ug/L	19	KED
|	**As-2**	75	31536.8	0.5	**47.2248**	0.185	0.4	ug/L	3	KED
	Y-1	89	101952.2	0.4				ug/L	98389	KED
	Rh-1	103	118350.6	0.2				ug/L	118370	KED
|>	**Ge**	72	681594.1	0.6				ug/L	720115	Standard
|>	**Tb**	159	822525.8	1.0				ug/L	850893	Standard
|>	**Ge-1**	72	101232.1	0.3				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		94.651
|>	Tb	159		96.666
|>	Ge-1	72		101.436

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b 2X

Sample Date/Time: Tuesday, August 19, 2025 09:00:29
Report Date/Time: Tuesday, August 19, 2025 09:02:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3040.3	1.8	**0.4309**	0.008	1.8	ug/L	162	Standard
|	**As**	75	14366.7	1.9	**0.9480**	0.059	6.2	ug/L	13407	Standard
|	**As-1**	75	2763.4	2.3	**0.8368**	0.008	0.9	ug/L	-163	Standard
|	**Se**	77	112.0	9.3	**0.0320**	0.061	190.4	ug/L	118	Standard
|	**Se -1**	78	11717.1	1.9	**0.3925**	0.234	59.6	ug/L	13606	Standard
|	**Br**	79	2855.6	4.5				ug/L	470	Standard
|	**Se -2**	82	62.0	11.2	**0.0410**	0.020	48.6	ug/L	34	Standard
	Kr	83	36.3	18.7				ug/L	34	Standard
|	**Ho**	165	583394.6	1.9				ug/L	745954	Standard
|	**Pb**	208	6034.5	2.7	**0.1458**	0.003	2.3	ug/L	990	Standard
|	**Bi**	209	329530.2	1.9				ug/L	414898	Standard
|	**Th**	232	401068.4	0.2				ug/L	510163	Standard
|	**Ni -3**	58	5179.9	4.2	**0.4831**	0.017	3.6	ug/L	242	KED
|	**Ni -4**	60	1964.8	2.2	**0.4228**	0.006	1.4	ug/L	100	KED
|	**Ni -5**	62	270.3	6.0	**0.3983**	0.024	6.0	ug/L	19	KED
|	**As-2**	75	511.7	2.9	**0.8118**	0.027	3.3	ug/L	3	KED
	Y-1	89	92812.9	1.2				ug/L	98389	KED
	Rh-1	103	104489.8	1.2				ug/L	118370	KED
|>	**Ge**	72	612278.7	3.1				ug/L	720115	Standard
|>	**Tb**	159	677467.8	0.4				ug/L	850893	Standard
|>	**Ge-1**	72	93510.7	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		85.025
|>	Tb	159		79.618
|>	Ge-1	72		93.699

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b D 2X

Sample Date/Time: Tuesday, August 19, 2025 09:04:39
Report Date/Time: Tuesday, August 19, 2025 09:06:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b D 2X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3133.0	0.9	**0.4896**	0.003	0.5	ug/L	162	Standard
|	**As**	75	13960.4	0.7	**1.1750**	0.029	2.4	ug/L	13407	Standard
|	**As-1**	75	2735.6	0.4	**0.8959**	0.011	1.2	ug/L	-163	Standard
|	**Se**	77	116.7	7.4	**0.0964**	0.039	40.8	ug/L	118	Standard
|	**Se -1**	78	11323.2	0.8	**1.2038**	0.110	9.1	ug/L	13606	Standard
|	**Br**	79	2858.3	1.9				ug/L	470	Standard
|	**Se -2**	82	55.3	7.3	**0.0345**	0.017	48.4	ug/L	34	Standard
	Kr	83	26.3	4.4				ug/L	34	Standard
|	**Ho**	165	547080.7	0.8				ug/L	745954	Standard
|	**Pb**	208	5826.8	0.5	**0.1504**	0.002	1.7	ug/L	990	Standard
|	**Bi**	209	316025.8	1.5				ug/L	414898	Standard
|	**Th**	232	386721.8	1.7				ug/L	510163	Standard
|	**Ni -3**	58	5284.0	1.6	**0.5203**	0.014	2.6	ug/L	242	KED
|	**Ni -4**	60	2030.8	0.2	**0.4620**	0.006	1.3	ug/L	100	KED
|	**Ni -5**	62	287.0	8.4	**0.4482**	0.045	10.0	ug/L	19	KED
|	**As-2**	75	520.7	5.6	**0.8656**	0.038	4.4	ug/L	3	KED
	Y-1	89	87666.2	0.5				ug/L	98389	KED
	Rh-1	103	98153.7	0.7				ug/L	118370	KED
| >	**Ge**	72	564284.1	1.0				ug/L	720115	Standard
| >	**Tb**	159	634491.6	2.2				ug/L	850893	Standard
| >	**Ge-1**	72	89323.7	1.3				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		78.360
| >	Tb	159		74.568
| >	Ge-1	72		89.504

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b L 10X

Sample Date/Time: Tuesday, August 19, 2025 09:08:49
Report Date/Time: Tuesday, August 19, 2025 09:10:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b L 10X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	891.4	1.7	0.0830	0.003	3.8	ug/L	162	Standard
|	As	75	11782.2	1.3	0.2816	0.064	22.8	ug/L	13407	Standard
|	As-1	75	467.6	12.8	0.1767	0.019	10.5	ug/L	-163	Standard
|	Se	77	95.7	7.0	-0.0314	0.033	105.5	ug/L	118	Standard
|	Se -1	78	11372.9	0.8	0.3159	0.220	69.6	ug/L	13606	Standard
|	Br	79	835.0	0.9				ug/L	470	Standard
|	Se -2	82	39.7	2.9	-0.0332	0.003	10.4	ug/L	34	Standard
	Kr	83	32.3	4.7				ug/L	34	Standard
|	Ho	165	575372.9	1.0				ug/L	745954	Standard
|	Pb	208	2311.1	2.4	0.0575	0.002	3.6	ug/L	990	Standard
|	Bi	209	341384.9	1.2				ug/L	414898	Standard
|	Th	232	417637.3	0.6				ug/L	510163	Standard
|	Ni -3	58	1567.9	6.0	0.1051	0.008	7.9	ug/L	242	KED
|	Ni -4	60	576.7	8.0	0.0889	0.012	13.4	ug/L	100	KED
|	Ni -5	62	84.3	14.3	0.0946	0.022	22.9	ug/L	19	KED
|	As-2	75	118.3	14.8	0.1765	0.028	15.9	ug/L	3	KED
	Y-1	89	90529.3	1.2				ug/L	98389	KED
	Rh-1	103	103480.8	1.6				ug/L	118370	KED
|>	Ge	72	596878.4	0.7				ug/L	720115	Standard
|>	Tb	159	663440.8	1.3				ug/L	850893	Standard
|>	Ge-1	72	92204.3	1.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.887
|>	Tb	159		77.970
|>	Ge-1	72		92.390

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b MS 2X

Sample Date/Time: Tuesday, August 19, 2025 09:12:58
Report Date/Time: Tuesday, August 19, 2025 09:14:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b MS 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	261678.6	0.4	44.6804	0.152	0.3	ug/L	162	Standard
|	As	75	168451.0	0.5	48.1436	0.543	1.1	ug/L	13407	Standard
|	As-1	75	158354.5	1.1	47.8809	0.707	1.5	ug/L	-163	Standard
|	Se	77	10234.3	0.9	47.6431	0.272	0.6	ug/L	118	Standard
|	Se -1	78	42756.2	0.6	47.6414	0.704	1.5	ug/L	13606	Standard
|	Br	79	2729.6	0.8				ug/L	470	Standard
|	Se -2	82	12878.5	1.8	46.8526	1.038	2.2	ug/L	34	Standard
	Kr	83	30.0	5.8				ug/L	34	Standard
|	Ho	165	561271.2	2.1				ug/L	745954	Standard
|	Pb	208	1838527.5	1.3	45.8239	0.848	1.9	ug/L	990	Standard
|	Bi	209	321782.3	1.1				ug/L	414898	Standard
|	Th	232	392469.9	1.6				ug/L	510163	Standard
|	Ni -3	58	416388.9	1.5	44.1143	0.457	1.0	ug/L	242	KED
|	Ni -4	60	181625.0	0.7	44.2481	0.139	0.3	ug/L	100	KED
|	Ni -5	62	26674.6	1.4	44.1631	0.362	0.8	ug/L	19	KED
|	As-2	75	28992.4	1.8	47.3531	0.608	1.3	ug/L	3	KED
	Y-1	89	91746.0	1.5				ug/L	98389	KED
	Rh-1	103	102165.4	0.4				ug/L	118370	KED
|>	Ge	72	585731.7	0.7				ug/L	720115	Standard
|>	Tb	159	653722.5	0.6				ug/L	850893	Standard
|>	Ge-1	72	92808.2	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		81.339
|>	Tb	159		76.828
|>	Ge-1	72		92.995

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b MSD 2X

Sample Date/Time: Tuesday, August 19, 2025 09:17:08
Report Date/Time: Tuesday, August 19, 2025 09:18:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b MSD 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	267965.0	0.9	**45.9582**	0.983	2.1	ug/L	162	Standard
|	**As**	75	171464.3	1.9	**49.2805**	0.251	0.5	ug/L	13407	Standard
|	**As-1**	75	161715.9	1.5	**49.1016**	0.296	0.6	ug/L	-163	Standard
|	**Se**	77	10364.1	1.7	**48.4612**	0.609	1.3	ug/L	118	Standard
|	**Se -1**	78	44176.6	3.1	**50.0370**	1.194	2.4	ug/L	13606	Standard
|	**Br**	79	2824.3	3.2				ug/L	470	Standard
|	**Se -2**	82	13574.4	1.3	**49.6022**	0.256	0.5	ug/L	34	Standard
	Kr	83	30.0	16.7				ug/L	34	Standard
|	**Ho**	165	583812.5	0.8				ug/L	745954	Standard
|	**Pb**	208	1920539.1	0.8	**46.6223**	1.082	2.3	ug/L	990	Standard
|	**Bi**	209	330157.0	0.7				ug/L	414898	Standard
|	**Th**	232	401667.6	0.6				ug/L	510163	Standard
|	**Ni -3**	58	415924.9	0.7	**44.9156**	0.145	0.3	ug/L	242	KED
|	**Ni -4**	60	181530.4	0.6	**45.0770**	0.054	0.1	ug/L	100	KED
|	**Ni -5**	62	26847.5	0.6	**45.3075**	0.083	0.2	ug/L	19	KED
|	**As-2**	75	28990.4	0.6	**48.2639**	0.275	0.6	ug/L	3	KED
	Y-1	89	91854.1	1.3				ug/L	98389	KED
	Rh-1	103	102709.4	2.5				ug/L	118370	KED
|>	**Ge**	72	583258.2	1.5				ug/L	720115	Standard
|>	**Tb**	159	671351.9	2.2				ug/L	850893	Standard
|>	**Ge-1**	72	91055.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		80.995
|>	Tb	159		78.900
|>	Ge-1	72		91.239

Quantitative Analysis - Summary Report

Sample ID: 08-183-10b PS 2X

Sample Date/Time: Tuesday, August 19, 2025 09:21:19
Report Date/Time: Tuesday, August 19, 2025 09:23:08
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-183-10b PS 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	208516.0	1.8	**36.4274**	0.393	1.1	ug/L	162	Standard
|	**As**	75	138334.8	1.3	**39.9485**	0.499	1.2	ug/L	13407	Standard
|	**As-1**	75	128248.2	1.2	**39.6962**	0.438	1.1	ug/L	-163	Standard
|	**Se**	77	8357.8	2.4	**39.7468**	0.948	2.4	ug/L	118	Standard
|	**Se -1**	78	37061.3	0.7	**40.4213**	0.877	2.2	ug/L	13606	Standard
|	**Br**	79	2733.9	1.8				ug/L	470	Standard
|	**Se -2**	82	10639.3	1.2	**39.5936**	0.896	2.3	ug/L	34	Standard
	Kr	83	32.3	1.8				ug/L	34	Standard
|	**Ho**	165	573323.1	1.6				ug/L	745954	Standard
|	**Pb**	208	1519909.2	0.8	**37.5792**	1.207	3.2	ug/L	990	Standard
|	**Bi**	209	323843.4	2.3				ug/L	414898	Standard
|	**Th**	232	391929.0	1.1				ug/L	510163	Standard
|	**Ni -3**	58	328758.8	0.4	**36.0017**	0.321	0.9	ug/L	242	KED
|	**Ni -4**	60	142867.5	0.5	**35.9763**	0.262	0.7	ug/L	100	KED
|	**Ni -5**	62	21073.9	1.0	**36.0666**	0.430	1.2	ug/L	19	KED
|	**As-2**	75	22910.7	0.8	**38.6863**	0.142	0.4	ug/L	3	KED
	Y-1	89	89547.5	2.1				ug/L	98389	KED
	Rh-1	103	100388.9	1.1				ug/L	118370	KED
| >	**Ge**	72	572258.1	1.0				ug/L	720115	Standard
| >	**Tb**	159	659312.4	2.6				ug/L	850893	Standard
| >	**Ge-1**	72	89768.5	1.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		79.468
| >	Tb	159		77.485
| >	Ge-1	72		89.950

Quantitative Analysis - Summary Report

Sample ID: 08-131-01 2X

Sample Date/Time: Tuesday, August 19, 2025 09:25:30
Report Date/Time: Tuesday, August 19, 2025 09:27:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-131-01 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	57933.6	2.2	**9.2134**	0.379	4.1	ug/L	162	Standard
|	As	75	16118.9	2.0	**1.3580**	0.031	2.2	ug/L	13407	Standard
|	As-1	75	4831.9	4.4	**1.4042**	0.028	2.0	ug/L	-163	Standard
|	Se	77	141.7	0.8	**0.1510**	0.018	11.9	ug/L	118	Standard
|	Se -1	78	11454.6	1.1	**-0.3356**	0.224	66.7	ug/L	13606	Standard
|	Br	79	3598.5	3.2				ug/L	470	Standard
|	Se -2	82	82.7	10.3	**0.1070**	0.025	23.0	ug/L	34	Standard
	Kr	83	73.3	1.6				ug/L	34	Standard
|	Ho	165	612799.8	1.9				ug/L	745954	Standard
|	Pb	208	88304.7	2.8	**2.0292**	0.007	0.3	ug/L	990	Standard
|	Bi	209	339792.7	1.3				ug/L	414898	Standard
|	Th	232	403407.4	1.6				ug/L	510163	Standard
|	Ni -3	58	97342.3	1.4	**10.1725**	0.108	1.1	ug/L	242	KED
|	Ni -4	60	40582.9	1.4	**9.7574**	0.175	1.8	ug/L	100	KED
|	Ni -5	62	6143.3	8.3	**10.0430**	0.817	8.1	ug/L	19	KED
|	As-2	75	908.4	2.5	**1.4528**	0.037	2.6	ug/L	3	KED
	Y-1	89	116629.2	1.2				ug/L	98389	KED
	Rh-1	103	106000.2	0.6				ug/L	118370	KED
| >	Ge	72	625658.4	2.5				ug/L	720115	Standard
| >	Tb	159	709279.1	3.1				ug/L	850893	Standard
| >	Ge-1	72	93650.3	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		86.883
| >	Tb	159		83.357
| >	Ge-1	72		93.839

Quantitative Analysis - Summary Report

Sample ID: 08-131-02 2X

Sample Date/Time: Tuesday, August 19, 2025 09:29:39
Report Date/Time: Tuesday, August 19, 2025 09:31:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-131-02 2X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3200.0	2.7	0.4710	0.012	2.5	ug/L	162	Standard
|	As	75	11625.3	1.4	0.2384	0.003	1.5	ug/L	13407	Standard
|	As-1	75	373.1	12.7	0.1487	0.013	8.9	ug/L	-163	Standard
|	Se	77	101.7	3.5	-0.0030	0.023	742.4	ug/L	118	Standard
|	Se -1	78	11336.2	1.2	0.2808	0.067	23.7	ug/L	13606	Standard
|	Br	79	1752.8	1.8				ug/L	470	Standard
|	Se -2	82	49.7	9.1	0.0028	0.016	556.3	ug/L	34	Standard
	Kr	83	30.0	23.3				ug/L	34	Standard
|	Ho	165	582728.4	1.8				ug/L	745954	Standard
|	Pb	208	4092.6	3.0	0.0995	0.002	2.0	ug/L	990	Standard
|	Bi	209	336396.6	0.3				ug/L	414898	Standard
|	Th	232	400532.0	0.5				ug/L	510163	Standard
|	Ni -3	58	5063.8	0.9	0.4751	0.008	1.6	ug/L	242	KED
|	Ni -4	60	2092.5	3.2	0.4577	0.014	3.1	ug/L	100	KED
|	Ni -5	62	329.7	1.1	0.5002	0.004	0.8	ug/L	19	KED
|	As-2	75	88.3	4.3	0.1263	0.006	5.1	ug/L	3	KED
	Y-1	89	92709.2	0.5				ug/L	98389	KED
	Rh-1	103	103477.1	0.3				ug/L	118370	KED
|>	Ge	72	596187.3	1.4				ug/L	720115	Standard
|>	Tb	159	674901.2	1.2				ug/L	850893	Standard
|>	Ge-1	72	92795.1	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.791
|>	Tb	159		79.317
|>	Ge-1	72		92.982

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 09:33:49
Report Date/Time: Tuesday, August 19, 2025 09:35:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	224987.2	0.7	37.2030	0.965	2.6	ug/L	162	Standard
|	As	75	148503.0	2.4	40.6229	0.187	0.5	ug/L	13407	Standard
|	As-1	75	137931.9	2.3	40.3909	0.148	0.4	ug/L	-163	Standard
|	Se	77	9215.3	3.2	41.4776	0.609	1.5	ug/L	118	Standard
|	Se -1	78	39983.2	2.4	41.5911	0.350	0.8	ug/L	13606	Standard
|	Br	79	414.3	10.3				ug/L	470	Standard
|	Se -2	82	11600.0	2.0	40.8443	0.363	0.9	ug/L	34	Standard
	Kr	83	32.7	22.1				ug/L	34	Standard
|	Ho	165	579539.2	3.6				ug/L	745954	Standard
|	Pb	208	1657880.6	1.8	40.0389	1.089	2.7	ug/L	990	Standard
|	Bi	209	340419.0	2.6				ug/L	414898	Standard
|	Th	232	404078.3	0.8				ug/L	510163	Standard
|	Ni -3	58	356143.0	1.5	38.2319	0.332	0.9	ug/L	242	KED
|	Ni -4	60	154427.9	0.2	38.1227	0.164	0.4	ug/L	100	KED
|	Ni -5	62	23069.6	0.8	38.7047	0.072	0.2	ug/L	19	KED
|	As-2	75	24233.9	1.6	40.1122	0.400	1.0	ug/L	3	KED
	Y-1	89	91118.3	0.3				ug/L	98389	KED
	Rh-1	103	102749.9	0.7				ug/L	118370	KED
|>	Ge	72	604836.3	2.0				ug/L	720115	Standard
|>	Tb	159	674806.0	2.1				ug/L	850893	Standard
|>	Ge-1	72	91573.9	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	93.007	
|	As	75	101.557	
|	As-1	75	100.977	
|	Se	77	103.694	
|	Se -1	78	103.978	
|	Br	79		
|	Se -2	82	102.111	
	Kr	83		
|	Ho	165		
|	Pb	208	100.097	
|	Bi	209		
|	Th	232		
|	Ni -3	58	95.580	
|	Ni -4	60	95.307	
|	Ni -5	62	96.762	
|	As-2	75	100.281	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		83.992
|>	Tb	159		79.306
|>	Ge-1	72		91.759

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 09:37:59
Report Date/Time: Tuesday, August 19, 2025 09:39:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	111458.5	1.2	**18.9652**	0.868	4.6	ug/L	162	Standard
|	**As**	75	77520.9	2.3	**20.3507**	0.349	1.7	ug/L	13407	Standard
|	**As-1**	75	67085.3	2.5	**20.2594**	0.209	1.0	ug/L	-163	Standard
|	**Se**	77	4387.3	1.2	**20.1132**	0.463	2.3	ug/L	118	Standard
|	**Se -1**	78	24678.3	2.1	**20.4827**	0.638	3.1	ug/L	13606	Standard
|	**Br**	79	365.7	4.4				ug/L	470	Standard
|	**Se -2**	82	5625.1	3.5	**20.3147**	0.336	1.7	ug/L	34	Standard
	Kr	83	34.3	21.1				ug/L	34	Standard
|	**Ho**	165	548782.3	2.1				ug/L	745954	Standard
|	**Pb**	208	795758.3	0.9	**20.1776**	0.425	2.1	ug/L	990	Standard
|	**Bi**	209	327031.9	1.6				ug/L	414898	Standard
|	**Th**	232	388079.4	0.7				ug/L	510163	Standard
|	**Ni -3**	58	178140.4	1.0	**19.4420**	0.378	1.9	ug/L	242	KED
|	**Ni -4**	60	77924.0	0.7	**19.5612**	0.349	1.8	ug/L	100	KED
|	**Ni -5**	62	11418.2	0.5	**19.4829**	0.316	1.6	ug/L	19	KED
|	**As-2**	75	12239.9	0.3	**20.6200**	0.256	1.2	ug/L	3	KED
	Y-1	89	88435.9	0.7				ug/L	98389	KED
	Rh-1	103	99003.9	0.8				ug/L	118370	KED
|>	**Ge**	72	587193.8	3.5				ug/L	720115	Standard
|>	**Tb**	159	642778.5	2.7				ug/L	850893	Standard
|>	**Ge-1**	72	89947.0	1.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	94.826	
|	As	75	101.753	
|	As-1	75	101.297	
|	Se	77	100.566	
|	Se -1	78	102.413	
|	Br	79		
|	Se -2	82	101.574	
	Kr	83		
|	Ho	165		
|	Pb	208	100.888	
|	Bi	209		
|	Th	232		
|	Ni -3	58	97.210	
|	Ni -4	60	97.806	
|	Ni -5	62	97.415	
|	As-2	75	103.100	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		81.542
|>	Tb	159		75.542
|>	Ge-1	72		90.128

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 09:42:10
Report Date/Time: Tuesday, August 19, 2025 09:43:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	190.7	8.8	-0.0338	0.003	9.7	ug/L	162	Standard
|	As	75	11101.6	2.1	0.1577	0.020	12.5	ug/L	13407	Standard
|	As-1	75	-39.4	117.7	0.0262	0.014	53.8	ug/L	-163	Standard
|	Se	77	85.3	7.4	-0.0697	0.028	39.7	ug/L	118	Standard
|	Se -1	78	11206.7	2.2	0.4678	0.133	28.5	ug/L	13606	Standard
|	Br	79	330.7	5.6				ug/L	470	Standard
|	Se -2	82	42.3	21.4	-0.0195	0.036	185.4	ug/L	34	Standard
	Kr	83	29.3	12.0				ug/L	34	Standard
|	Ho	165	557111.2	2.5				ug/L	745954	Standard
|	Pb	208	960.0	5.5	0.0246	0.001	5.4	ug/L	990	Standard
|	Bi	209	327282.6	1.7				ug/L	414898	Standard
|	Th	232	388267.0	2.1				ug/L	510163	Standard
|	Ni -3	58	286.3	3.2	-0.0314	0.001	2.9	ug/L	242	KED
|	Ni -4	60	118.0	3.4	-0.0235	0.001	4.7	ug/L	100	KED
|	Ni -5	62	21.7	27.8	-0.0098	0.010	105.2	ug/L	19	KED
|	As-2	75	14.3	21.3	0.0057	0.005	90.2	ug/L	3	KED
	Y-1	89	89388.5	1.0				ug/L	98389	KED
	Rh-1	103	101699.0	0.4				ug/L	118370	KED
| >	Ge	72	582853.6	2.3				ug/L	720115	Standard
| >	Tb	159	654605.6	1.6				ug/L	850893	Standard
| >	Ge-1	72	91391.4	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		80.939
| >	Tb	159		76.932
| >	Ge-1	72		91.576

Quantitative Analysis - Summary Report

Sample ID: 08-131-03 2X

Sample Date/Time: Tuesday, August 19, 2025 09:48:39
Report Date/Time: Tuesday, August 19, 2025 09:50:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-131-03 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	2769.9	2.3	**0.4224**	0.013	3.0	ug/L	162	Standard
|	**As**	75	11943.1	0.9	**0.5150**	0.028	5.4	ug/L	13407	Standard
|	**As-1**	75	808.9	4.2	**0.2903**	0.010	3.4	ug/L	-163	Standard
|	**Se**	77	114.7	5.0	**0.0836**	0.026	31.1	ug/L	118	Standard
|	**Se -1**	78	11226.1	1.1	**0.9555**	0.165	17.3	ug/L	13606	Standard
|	**Br**	79	2863.3	2.4				ug/L	470	Standard
|	**Se -2**	82	52.7	24.5	**0.0231**	0.048	208.0	ug/L	34	Standard
	Kr	83	31.3	4.9				ug/L	34	Standard
|	**Ho**	165	562269.6	3.6				ug/L	745954	Standard
|	**Pb**	208	1964.1	2.1	**0.0498**	0.002	3.4	ug/L	990	Standard
|	**Bi**	209	321014.5	1.8				ug/L	414898	Standard
|	**Th**	232	376318.8	1.4				ug/L	510163	Standard
|	**Ni -3**	58	4197.6	1.4	**0.3923**	0.006	1.5	ug/L	242	KED
|	**Ni -4**	60	1770.8	2.0	**0.3880**	0.009	2.3	ug/L	100	KED
|	**Ni -5**	62	267.7	5.4	**0.4065**	0.025	6.2	ug/L	19	KED
|	**As-2**	75	178.3	8.4	**0.2793**	0.025	9.1	ug/L	3	KED
	Y-1	89	89760.1	0.3				ug/L	98389	KED
	Rh-1	103	99545.6	1.1				ug/L	118370	KED
|>	**Ge**	72	567429.8	0.3				ug/L	720115	Standard
|>	**Tb**	159	652183.0	1.7				ug/L	850893	Standard
|>	**Ge-1**	72	90936.5	0.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.797
|>	Tb	159		76.647
|>	Ge-1	72		91.120

Quantitative Analysis - Summary Report

Sample ID: 08-136-01c 2X

Sample Date/Time: Tuesday, August 19, 2025 09:52:49
Report Date/Time: Tuesday, August 19, 2025 09:54:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01c 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	6342.4	2.3	1.0342	0.017	1.7	ug/L	162	Standard
|	As	75	13837.9	0.5	1.0391	0.038	3.6	ug/L	13407	Standard
|	As-1	75	3115.3	2.8	0.9933	0.025	2.6	ug/L	-163	Standard
|	Se	77	221.7	5.7	0.5848	0.055	9.4	ug/L	118	Standard
|	Se -1	78	10877.8	0.4	0.1370	0.183	133.6	ug/L	13606	Standard
|	Br	79	10959.5	2.3				ug/L	470	Standard
|	Se -2	82	77.0	3.9	0.1101	0.013	11.6	ug/L	34	Standard
	Kr	83	32.0	14.3				ug/L	34	Standard
|	Ho	165	584195.1	3.1				ug/L	745954	Standard
|	Pb	208	902.3	4.8	0.0226	0.001	4.8	ug/L	990	Standard
|	Bi	209	323027.2	1.5				ug/L	414898	Standard
|	Th	232	396692.7	1.0				ug/L	510163	Standard
|	Ni -3	58	6237.1	1.8	0.6221	0.015	2.5	ug/L	242	KED
|	Ni -4	60	2774.9	2.8	0.6471	0.017	2.6	ug/L	100	KED
|	Ni -5	62	394.7	5.2	0.6302	0.038	6.0	ug/L	19	KED
|	As-2	75	562.0	2.8	0.9315	0.025	2.7	ug/L	3	KED
	Y-1	89	90467.9	1.1				ug/L	98389	KED
	Rh-1	103	97604.6	0.4				ug/L	118370	KED
| >	Ge	72	577073.4	0.7				ug/L	720115	Standard
| >	Tb	159	670399.5	1.1				ug/L	850893	Standard
| >	Ge-1	72	89752.7	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		80.136
| >	Tb	159		78.788
| >	Ge-1	72		89.934

Quantitative Analysis - Summary Report

Sample ID: 08-136-02c 2X

Sample Date/Time: Tuesday, August 19, 2025 09:56:58
Report Date/Time: Tuesday, August 19, 2025 09:58:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-02c 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	5468.0	2.1	**0.9231**	0.025	2.7	ug/L	162	Standard
|	**As**	75	17092.9	1.1	**2.2726**	0.017	0.7	ug/L	13407	Standard
|	**As-1**	75	6185.5	1.2	**2.0158**	0.025	1.2	ug/L	-163	Standard
|	**Se**	77	186.7	3.3	**0.4562**	0.039	8.5	ug/L	118	Standard
|	**Se -1**	78	11012.9	1.5	**1.0555**	0.147	14.0	ug/L	13606	Standard
|	**Br**	79	8907.4	1.3				ug/L	470	Standard
|	**Se -2**	82	57.7	5.6	**0.0476**	0.015	31.9	ug/L	34	Standard
	Kr	83	35.3	7.1				ug/L	34	Standard
|	**Ho**	165	564554.9	1.0				ug/L	745954	Standard
|	**Pb**	208	1216.4	5.6	**0.0311**	0.001	4.3	ug/L	990	Standard
|	**Bi**	209	314491.8	0.8				ug/L	414898	Standard
|	**Th**	232	383901.0	1.5				ug/L	510163	Standard
|	**Ni -3**	58	7059.9	0.3	**0.7294**	0.002	0.3	ug/L	242	KED
|	**Ni -4**	60	2745.9	1.0	**0.6551**	0.006	1.0	ug/L	100	KED
|	**Ni -5**	62	404.0	6.9	**0.6614**	0.050	7.5	ug/L	19	KED
|	**As-2**	75	1137.7	2.0	**1.9467**	0.043	2.2	ug/L	3	KED
	Y-1	89	87140.0	0.8				ug/L	98389	KED
	Rh-1	103	95546.2	1.2				ug/L	118370	KED
| >	**Ge**	72	553473.9	1.4				ug/L	720115	Standard
| >	**Tb**	159	652186.6	1.3				ug/L	850893	Standard
| >	**Ge-1**	72	87813.7	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		76.859
| >	Tb	159		76.647
| >	Ge-1	72		87.991

Quantitative Analysis - Summary Report

Sample ID: 08-136-03c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:01:08
Report Date/Time: Tuesday, August 19, 2025 10:02:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-03c 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	16063.0	2.4	**2.7623**	0.040	1.5	ug/L	162	Standard
|	As	75	26093.6	1.4	**4.9532**	0.087	1.8	ug/L	13407	Standard
|	As-1	75	15270.8	1.5	**4.7899**	0.042	0.9	ug/L	-163	Standard
|	Se	77	193.0	11.2	**0.4609**	0.093	20.1	ug/L	118	Standard
|	Se -1	78	11093.6	1.3	**0.7137**	0.166	23.2	ug/L	13606	Standard
|	Br	79	44243.1	0.9				ug/L	470	Standard
|	Se -2	82	122.7	18.0	**0.2855**	0.078	27.1	ug/L	34	Standard
	Kr	83	28.3	16.3				ug/L	34	Standard
|	Ho	165	577541.8	2.2				ug/L	745954	Standard
|	Pb	208	2208.1	1.0	**0.0545**	0.001	2.2	ug/L	990	Standard
|	Bi	209	322938.0	2.1				ug/L	414898	Standard
|	Th	232	397533.7	2.2				ug/L	510163	Standard
|	Ni -3	58	31298.8	3.0	**3.3745**	0.073	2.2	ug/L	242	KED
|	Ni -4	60	9685.6	1.1	**2.3925**	0.008	0.3	ug/L	100	KED
|	Ni -5	62	1430.1	2.2	**2.4076**	0.079	3.3	ug/L	19	KED
|	As-2	75	2813.9	3.0	**4.7413**	0.148	3.1	ug/L	3	KED
	Y-1	89	90407.8	0.3				ug/L	98389	KED
	Rh-1	103	96988.5	0.8				ug/L	118370	KED
|>	Ge	72	568746.3	2.3				ug/L	720115	Standard
|>	Tb	159	668827.7	2.2				ug/L	850893	Standard
|>	Ge-1	72	89665.5	1.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.980
|>	Tb	159		78.603
|>	Ge-1	72		89.846

Quantitative Analysis - Summary Report

Sample ID: 08-136-04c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:05:17
Report Date/Time: Tuesday, August 19, 2025 10:07:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-04c 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3731.5	2.2	**0.6159**	0.016	2.6	ug/L	162	Standard
|	**As**	75	11855.0	1.4	**0.6220**	0.018	3.0	ug/L	13407	Standard
|	**As-1**	75	1085.4	3.4	**0.3887**	0.009	2.2	ug/L	-163	Standard
|	**Se**	77	210.3	7.9	**0.5851**	0.089	15.3	ug/L	118	Standard
|	**Se -1**	78	10928.8	1.4	**1.1057**	0.101	9.1	ug/L	13606	Standard
|	**Br**	79	20252.3	1.1				ug/L	470	Standard
|	**Se -2**	82	78.7	15.7	**0.1316**	0.045	34.4	ug/L	34	Standard
	Kr	83	27.3	7.6				ug/L	34	Standard
|	**Ho**	165	549399.2	0.8				ug/L	745954	Standard
|	**Pb**	208	1323.0	1.5	**0.0343**	0.001	2.8	ug/L	990	Standard
|	**Bi**	209	311681.4	1.2				ug/L	414898	Standard
|	**Th**	232	377780.7	1.2				ug/L	510163	Standard
|	**Ni -3**	58	2556.2	2.2	**0.2318**	0.004	1.6	ug/L	242	KED
|	**Ni -4**	60	1116.4	2.5	**0.2425**	0.007	3.1	ug/L	100	KED
|	**Ni -5**	62	171.7	7.9	**0.2622**	0.024	9.0	ug/L	19	KED
|	**As-2**	75	188.3	1.3	**0.3156**	0.006	2.0	ug/L	3	KED
	Y-1	89	85328.4	0.2				ug/L	98389	KED
	Rh-1	103	92917.5	0.2				ug/L	118370	KED
| >	**Ge**	72	547661.0	1.1				ug/L	720115	Standard
| >	**Tb**	159	641530.3	1.3				ug/L	850893	Standard
| >	**Ge-1**	72	85597.7	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		76.052
| >	Tb	159		75.395
| >	Ge-1	72		85.770

Quantitative Analysis - Summary Report

Sample ID: 08-136-05c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:09:26
Report Date/Time: Tuesday, August 19, 2025 10:11:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-05c 2X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	8083.3	0.4	**1.4038**	0.023	1.7	ug/L	162	Standard
|	As	75	11784.2	1.9	**0.5781**	0.085	14.6	ug/L	13407	Standard
|	As-1	75	1049.1	3.0	**0.3752**	0.011	3.0	ug/L	-163	Standard
|	Se	77	174.0	9.5	**0.3967**	0.073	18.4	ug/L	118	Standard
|	Se -1	78	10938.5	1.7	**1.0265**	0.366	35.7	ug/L	13606	Standard
|	Br	79	28974.7	2.0				ug/L	470	Standard
|	Se -2	82	96.0	11.7	**0.1979**	0.048	24.1	ug/L	34	Standard
	Kr	83	29.7	24.4				ug/L	34	Standard
|	Ho	165	575482.4	2.1				ug/L	745954	Standard
|	Pb	208	1075.7	6.8	**0.0268**	0.001	4.8	ug/L	990	Standard
|	Bi	209	313231.0	1.6				ug/L	414898	Standard
|	Th	232	380676.0	1.5				ug/L	510163	Standard
|	Ni -3	58	9243.2	2.1	**1.0098**	0.014	1.4	ug/L	242	KED
|	Ni -4	60	4098.3	0.2	**1.0402**	0.010	1.0	ug/L	100	KED
|	Ni -5	62	620.0	7.2	**1.0770**	0.076	7.1	ug/L	19	KED
|	As-2	75	194.7	8.7	**0.3298**	0.032	9.8	ug/L	3	KED
	Y-1	89	85658.1	0.9				ug/L	98389	KED
	Rh-1	103	92450.2	0.5				ug/L	118370	KED
|>	Ge	72	550705.7	1.2				ug/L	720115	Standard
|>	Tb	159	671873.7	1.8				ug/L	850893	Standard
|>	Ge-1	72	84889.1	0.9				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.475
|>	Tb	159		78.961
|>	Ge-1	72		85.060

Quantitative Analysis - Summary Report

Sample ID: 08-136-06c 2X

Sample Date/Time: Tuesday, August 19, 2025 10:13:34
Report Date/Time: Tuesday, August 19, 2025 10:15:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-06c 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	3437.4	2.1	0.5820	0.004	0.7	ug/L	162	Standard
|	As	75	11748.0	0.5	0.7097	0.088	12.4	ug/L	13407	Standard
|	As-1	75	1045.2	5.2	0.3866	0.021	5.4	ug/L	-163	Standard
|	Se	77	229.0	4.3	0.7163	0.080	11.2	ug/L	118	Standard
|	Se -1	78	10843.8	1.0	1.5250	0.410	26.9	ug/L	13606	Standard
|	Br	79	19707.6	1.5				ug/L	470	Standard
|	Se -2	82	71.3	1.6	0.1122	0.011	9.8	ug/L	34	Standard
	Kr	83	30.0	20.3				ug/L	34	Standard
|	Ho	165	554612.6	1.3				ug/L	745954	Standard
|	Pb	208	1241.0	4.7	0.0319	0.002	5.1	ug/L	990	Standard
|	Bi	209	308588.1	0.8				ug/L	414898	Standard
|	Th	232	371163.4	1.7				ug/L	510163	Standard
|	Ni -3	58	2322.7	1.3	0.2114	0.005	2.2	ug/L	242	KED
|	Ni -4	60	1045.0	2.5	0.2303	0.007	3.2	ug/L	100	KED
|	Ni -5	62	150.7	7.9	0.2311	0.023	10.2	ug/L	19	KED
|	As-2	75	183.0	7.4	0.3139	0.023	7.3	ug/L	3	KED
	Y-1	89	83679.4	0.9				ug/L	98389	KED
	Rh-1	103	91373.6	1.1				ug/L	118370	KED
| >	Ge	72	530877.5	2.4				ug/L	720115	Standard
| >	Tb	159	648600.3	0.6				ug/L	850893	Standard
| >	Ge-1	72	83567.4	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		73.721
| >	Tb	159		76.226
| >	Ge-1	72		83.736

Quantitative Analysis - Summary Report

Sample ID: MB0819D1 2X

Sample Date/Time: Tuesday, August 19, 2025 10:17:43
Report Date/Time: Tuesday, August 19, 2025 10:19:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\MB0819D1 2X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	164.0	6.3	-0.0366	0.002	5.6	ug/L	162	Standard
|	As	75	10721.0	1.7	0.2423	0.061	25.2	ug/L	13407	Standard
|	As-1	75	-92.1	64.4	0.0082	0.020	239.4	ug/L	-163	Standard
|	Se	77	87.7	2.4	-0.0333	0.007	20.5	ug/L	118	Standard
|	Se -1	78	10853.8	1.5	0.9377	0.317	33.8	ug/L	13606	Standard
|	Br	79	718.4	6.1				ug/L	470	Standard
|	Se -2	82	32.0	19.5	-0.0509	0.023	45.4	ug/L	34	Standard
	Kr	83	35.7	18.7				ug/L	34	Standard
|	Ho	165	579844.3	0.7				ug/L	745954	Standard
|	Pb	208	861.0	4.1	0.0214	0.001	2.8	ug/L	990	Standard
|	Bi	209	336638.9	1.2				ug/L	414898	Standard
|	Th	232	387875.0	0.8				ug/L	510163	Standard
|	Ni -3	58	254.3	5.3	-0.0338	0.002	4.8	ug/L	242	KED
|	Ni -4	60	117.3	15.1	-0.0226	0.004	19.7	ug/L	100	KED
|	Ni -5	62	18.7	11.2	-0.0137	0.004	27.1	ug/L	19	KED
|	As-2	75	4.3	58.1	-0.0106	0.004	41.0	ug/L	3	KED
	Y-1	89	88592.5	0.8				ug/L	98389	KED
	Rh-1	103	98947.5	1.2				ug/L	118370	KED
|>	Ge	72	549229.4	1.2				ug/L	720115	Standard
|>	Tb	159	678481.6	1.3				ug/L	850893	Standard
|>	Ge-1	72	88002.2	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.270
|>	Tb	159		79.738
|>	Ge-1	72		88.180

Quantitative Analysis - Summary Report

Sample ID: SB0819D1 2X

Sample Date/Time: Tuesday, August 19, 2025 10:21:52
Report Date/Time: Tuesday, August 19, 2025 10:23:41
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\SB0819D1 2X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	216644.8	1.0	**39.4102**	0.616	1.6	ug/L	162	Standard
|	**As**	75	135374.2	0.6	**40.7591**	0.307	0.8	ug/L	13407	Standard
|	**As-1**	75	125612.9	0.8	**40.4746**	0.099	0.2	ug/L	-163	Standard
|	**Se**	77	8379.1	1.7	**41.5029**	0.622	1.5	ug/L	118	Standard
|	**Se -1**	78	36933.7	0.7	**42.5450**	0.381	0.9	ug/L	13606	Standard
|	**Br**	79	503.3	4.8				ug/L	470	Standard
|	**Se -2**	82	10716.7	2.3	**41.5173**	0.632	1.5	ug/L	34	Standard
	Kr	83	28.7	23.2				ug/L	34	Standard
|	**Ho**	165	578701.3	1.6				ug/L	745954	Standard
|	**Pb**	208	1626670.7	0.7	**39.4439**	0.268	0.7	ug/L	990	Standard
|	**Bi**	209	331992.6	0.9				ug/L	414898	Standard
|	**Th**	232	388735.6	1.3				ug/L	510163	Standard
|	**Ni -3**	58	337475.9	0.4	**37.9099**	0.401	1.1	ug/L	242	KED
|	**Ni -4**	60	146049.1	0.4	**37.7257**	0.305	0.8	ug/L	100	KED
|	**Ni -5**	62	21511.9	1.1	**37.7644**	0.437	1.2	ug/L	19	KED
|	**As-2**	75	23139.7	1.6	**40.0797**	0.735	1.8	ug/L	3	KED
	Y-1	89	87708.4	0.8				ug/L	98389	KED
	Rh-1	103	99206.3	0.7				ug/L	118370	KED
|>	**Ge**	72	549704.2	1.0				ug/L	720115	Standard
|>	**Tb**	159	671935.3	1.3				ug/L	850893	Standard
|>	**Ge-1**	72	87516.6	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.336
|>	Tb	159		78.968
|>	Ge-1	72		87.693

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d 2X

Sample Date/Time: Tuesday, August 19, 2025 10:27:43
Report Date/Time: Tuesday, August 19, 2025 10:29:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d 2X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	6963.7	2.3	**1.2449**	0.029	2.3	ug/L	162	Standard
|	**As**	75	14161.0	0.8	**1.5120**	0.037	2.5	ug/L	13407	Standard
|	**As-1**	75	3578.7	1.7	**1.2288**	0.019	1.6	ug/L	-163	Standard
|	**Se**	77	211.3	7.8	**0.6214**	0.085	13.6	ug/L	118	Standard
|	**Se -1**	78	10769.4	1.0	**1.3644**	0.184	13.5	ug/L	13606	Standard
|	**Br**	79	12378.0	2.5				ug/L	470	Standard
|	**Se -2**	82	89.3	8.5	**0.1839**	0.031	16.7	ug/L	34	Standard
	Kr	83	30.3	11.6				ug/L	34	Standard
|	**Ho**	165	532134.6	1.4				ug/L	745954	Standard
|	**Pb**	208	566.3	5.5	**0.0155**	0.001	6.5	ug/L	990	Standard
|	**Bi**	209	296523.4	1.1				ug/L	414898	Standard
|	**Th**	232	358134.7	0.6				ug/L	510163	Standard
|	**Ni -3**	58	6775.8	1.4	**0.7650**	0.012	1.6	ug/L	242	KED
|	**Ni -4**	60	2957.6	0.4	**0.7774**	0.003	0.4	ug/L	100	KED
|	**Ni -5**	62	450.7	7.8	**0.8132**	0.067	8.3	ug/L	19	KED
|	**As-2**	75	624.7	6.8	**1.1564**	0.080	6.9	ug/L	3	KED
	Y-1	89	79572.0	1.1				ug/L	98389	KED
	Rh-1	103	86466.2	1.2				ug/L	118370	KED
| >	**Ge**	72	531822.3	0.1				ug/L	720115	Standard
| >	**Tb**	159	624426.1	1.9				ug/L	850893	Standard
| >	**Ge-1**	72	80652.0	0.1				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.852
|>	Tb	159		73.385
|>	Ge-1	72		80.815

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 10:31:54
Report Date/Time: Tuesday, August 19, 2025 10:33:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	212535.1	2.0	**37.2630**	1.542	4.1	ug/L	162	Standard
|	As	75	140792.3	1.3	**40.8490**	0.388	1.0	ug/L	13407	Standard
|	As-1	75	131258.4	1.5	**40.7484**	0.270	0.7	ug/L	-163	Standard
|	Se	77	8869.8	0.9	**42.3417**	0.538	1.3	ug/L	118	Standard
|	Se -1	78	38249.5	1.6	**42.4177**	0.929	2.2	ug/L	13606	Standard
|	Br	79	559.3	3.2				ug/L	470	Standard
|	Se -2	82	11324.2	2.2	**42.2712**	0.309	0.7	ug/L	34	Standard
	Kr	83	29.7	10.8				ug/L	34	Standard
|	Ho	165	574178.9	0.7				ug/L	745954	Standard
|	Pb	208	1595760.7	1.2	**38.9594**	0.547	1.4	ug/L	990	Standard
|	Bi	209	331146.9	1.4				ug/L	414898	Standard
|	Th	232	380966.3	0.6				ug/L	510163	Standard
|	Ni -3	58	325725.1	0.2	**37.6606**	0.122	0.3	ug/L	242	KED
|	Ni -4	60	141885.8	0.6	**37.7234**	0.168	0.4	ug/L	100	KED
|	Ni -5	62	20705.3	0.4	**37.4129**	0.103	0.3	ug/L	19	KED
|	As-2	75	22521.7	1.3	**40.1524**	0.626	1.6	ug/L	3	KED
	Y-1	89	85902.2	1.4				ug/L	98389	KED
	Rh-1	103	96223.7	1.3				ug/L	118370	KED
|>	Ge	72	570592.5	2.2				ug/L	720115	Standard
|>	Tb	159	667377.6	1.3				ug/L	850893	Standard
|>	Ge-1	72	85024.3	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	93.158	
|	As	75	102.122	
|	As-1	75	101.871	
|	Se	77	105.854	
|	Se -1	78	106.044	
|	Br	79		
|	Se -2	82	105.678	
	Kr	83		
|	Ho	165		
|	Pb	208	97.399	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.151	
|	Ni -4	60	94.309	
|	Ni -5	62	93.532	
|	As-2	75	100.381	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		79.236
|>	Tb	159		78.433
|>	Ge-1	72		85.196

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 10:36:04
Report Date/Time: Tuesday, August 19, 2025 10:37:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	104912.2	0.5	**19.1560**	0.213	1.1	ug/L	162	Standard
|	**As**	75	73774.5	1.7	**20.8673**	0.306	1.5	ug/L	13407	Standard
|	**As-1**	75	63213.8	1.7	**20.4995**	0.225	1.1	ug/L	-163	Standard
|	**Se**	77	4262.6	2.4	**20.9965**	0.205	1.0	ug/L	118	Standard
|	**Se -1**	78	24050.2	2.0	**22.1911**	0.263	1.2	ug/L	13606	Standard
|	**Br**	79	453.7	4.7				ug/L	470	Standard
|	**Se -2**	82	5328.7	3.3	**20.6672**	0.390	1.9	ug/L	34	Standard
	Kr	83	28.3	13.4				ug/L	34	Standard
|	**Ho**	165	563150.6	2.5				ug/L	745954	Standard
|	**Pb**	208	781835.6	2.7	**19.6628**	0.295	1.5	ug/L	990	Standard
|	**Bi**	209	316575.4	3.7				ug/L	414898	Standard
|	**Th**	232	362316.7	1.8				ug/L	510163	Standard
|	**Ni -3**	58	161084.1	1.6	**18.8342**	0.037	0.2	ug/L	242	KED
|	**Ni -4**	60	70394.4	1.4	**18.9319**	0.068	0.4	ug/L	100	KED
|	**Ni -5**	62	10363.4	2.1	**18.9446**	0.205	1.1	ug/L	19	KED
|	**As-2**	75	11202.7	2.4	**20.2195**	0.174	0.9	ug/L	3	KED
	Y-1	89	84441.9	1.6				ug/L	98389	KED
	Rh-1	103	93453.2	2.8				ug/L	118370	KED
|>	**Ge**	72	546700.3	1.5				ug/L	720115	Standard
|>	**Tb**	159	647769.3	1.4				ug/L	850893	Standard
|>	**Ge-1**	72	83939.9	1.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	95.780	
|	As	75	104.336	
|	As-1	75	102.497	
|	Se	77	104.983	
|	Se -1	78	110.955	
|	Br	79		
|	Se -2	82	103.336	
	Kr	83		
|	Ho	165		
|	Pb	208	98.314	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.171	
|	Ni -4	60	94.660	
|	Ni -5	62	94.723	
|	As-2	75	101.097	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		75.918
|>	Tb	159		76.128
|>	Ge-1	72		84.109

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 10:40:15
Report Date/Time: Tuesday, August 19, 2025 10:42:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	157.7	7.8	**-0.0390**	0.003	6.6	ug/L	162	Standard
|	**As**	75	10935.5	1.5	**0.1629**	0.031	18.8	ug/L	13407	Standard
|	**As-1**	75	-54.7	52.9	**0.0210**	0.009	43.5	ug/L	-163	Standard
|	**Se**	77	96.0	13.6	**-0.0123**	0.054	441.5	ug/L	118	Standard
|	**Se -1**	78	11060.6	1.4	**0.5266**	0.151	28.7	ug/L	13606	Standard
|	**Br**	79	376.0	4.0				ug/L	470	Standard
|	**Se -2**	82	44.0	21.9	**-0.0116**	0.033	283.0	ug/L	34	Standard
	Kr	83	23.7	6.5				ug/L	34	Standard
|	**Ho**	165	588089.7	2.5				ug/L	745954	Standard
|	**Pb**	208	983.0	2.7	**0.0242**	0.000	0.8	ug/L	990	Standard
|	**Bi**	209	334930.5	1.3				ug/L	414898	Standard
|	**Th**	232	381934.3	1.4				ug/L	510163	Standard
|	**Ni -3**	58	238.4	2.1	**-0.0353**	0.001	1.8	ug/L	242	KED
|	**Ni -4**	60	95.7	7.9	**-0.0279**	0.002	7.3	ug/L	100	KED
|	**Ni -5**	62	18.0	20.0	**-0.0145**	0.006	44.0	ug/L	19	KED
|	**As-2**	75	10.0	20.0	**-0.0007**	0.003	476.9	ug/L	3	KED
	Y-1	89	88313.5	0.9				ug/L	98389	KED
	Rh-1	103	99097.2	1.4				ug/L	118370	KED
|>	**Ge**	72	573272.2	1.8				ug/L	720115	Standard
|>	**Tb**	159	681545.0	2.3				ug/L	850893	Standard
|>	**Ge-1**	72	87127.6	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		79.608
|>	Tb	159		80.098
|>	Ge-1	72		87.303

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d D 2X

Sample Date/Time: Tuesday, August 19, 2025 10:45:15
Report Date/Time: Tuesday, August 19, 2025 10:47:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d D 2X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	6975.0	2.0	**1.2921**	0.054	4.2	ug/L	162	Standard
|	**As**	75	14250.6	0.6	**1.7046**	0.082	4.8	ug/L	13407	Standard
|	**As-1**	75	3640.3	2.6	**1.2904**	0.042	3.3	ug/L	-163	Standard
|	**Se**	77	216.7	7.9	**0.6860**	0.068	9.9	ug/L	118	Standard
|	**Se -1**	78	10804.1	1.5	**2.0252**	0.308	15.2	ug/L	13606	Standard
|	**Br**	79	13186.8	3.2				ug/L	470	Standard
|	**Se -2**	82	92.0	16.0	**0.2066**	0.056	27.0	ug/L	34	Standard
	Kr	83	29.0	6.0				ug/L	34	Standard
|	**Ho**	165	516218.1	2.7				ug/L	745954	Standard
|	**Pb**	208	529.3	5.3	**0.0152**	0.001	3.8	ug/L	990	Standard
|	**Bi**	209	282001.2	2.4				ug/L	414898	Standard
|	**Th**	232	333229.5	0.9				ug/L	510163	Standard
|	**Ni -3**	58	6982.4	0.6	**0.8219**	0.010	1.2	ug/L	242	KED
|	**Ni -4**	60	3043.7	3.6	**0.8332**	0.028	3.4	ug/L	100	KED
|	**Ni -5**	62	448.0	7.6	**0.8398**	0.064	7.7	ug/L	19	KED
|	**As-2**	75	674.7	5.6	**1.2976**	0.071	5.5	ug/L	3	KED
	Y-1	89	76699.0	1.2				ug/L	98389	KED
	Rh-1	103	83018.2	0.6				ug/L	118370	KED
|>	**Ge**	72	514482.8	2.0				ug/L	720115	Standard
|>	**Tb**	159	596047.8	2.1				ug/L	850893	Standard
|>	**Ge-1**	72	77761.4	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		71.445
|>	Tb	159		70.050
|>	Ge-1	72		77.918

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d L 10X

Sample Date/Time: Tuesday, August 19, 2025 10:49:26
Report Date/Time: Tuesday, August 19, 2025 10:51:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d L 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	1645.4	3.2	**0.2383**	0.012	5.2	ug/L	162	Standard
|	**As**	75	11129.5	0.6	**0.4320**	0.066	15.2	ug/L	13407	Standard
|	**As-1**	75	688.4	8.1	**0.2634**	0.020	7.7	ug/L	-163	Standard
|	**Se**	77	108.7	9.4	**0.0803**	0.048	60.0	ug/L	118	Standard
|	**Se -1**	78	10527.2	0.1	**0.6789**	0.241	35.6	ug/L	13606	Standard
|	**Br**	79	2854.0	2.7				ug/L	470	Standard
|	**Se -2**	82	49.3	8.2	**0.0198**	0.016	81.1	ug/L	34	Standard
	Kr	83	30.0	16.7				ug/L	34	Standard
|	**Ho**	165	549183.7	1.2				ug/L	745954	Standard
|	**Pb**	208	711.0	2.3	**0.0188**	0.001	3.2	ug/L	990	Standard
|	**Bi**	209	315638.3	1.8				ug/L	414898	Standard
|	**Th**	232	365016.6	0.5				ug/L	510163	Standard
|	**Ni -3**	58	1747.6	1.7	**0.1469**	0.003	1.9	ug/L	242	KED
|	**Ni -4**	60	753.7	1.4	**0.1546**	0.002	1.6	ug/L	100	KED
|	**Ni -5**	62	113.3	11.0	**0.1655**	0.022	13.5	ug/L	19	KED
|	**As-2**	75	163.3	6.6	**0.2830**	0.021	7.4	ug/L	3	KED
	Y-1	89	82048.6	1.4				ug/L	98389	KED
	Rh-1	103	90142.2	1.5				ug/L	118370	KED
| >	**Ge**	72	540795.1	1.3				ug/L	720115	Standard
| >	**Tb**	159	641857.0	1.0				ug/L	850893	Standard
| >	**Ge-1**	72	82265.5	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		75.098
| >	Tb	159		75.433
| >	Ge-1	72		82.431

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d MS 2X

Sample Date/Time: Tuesday, August 19, 2025 10:53:35
Report Date/Time: Tuesday, August 19, 2025 10:55:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d MS 2X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	192455.8	1.3	**38.7768**	0.754	1.9	ug/L	162	Standard
|	As	75	136448.2	1.2	**45.8802**	0.538	1.2	ug/L	13407	Standard
|	As-1	75	127265.3	1.3	**45.4155**	0.613	1.3	ug/L	-163	Standard
|	Se	77	8583.6	1.2	**47.1530**	0.092	0.2	ug/L	118	Standard
|	Se -1	78	36914.0	1.0	**48.8554**	0.993	2.0	ug/L	13606	Standard
|	Br	79	11926.0	1.0				ug/L	470	Standard
|	Se -2	82	10935.9	2.3	**46.9565**	1.308	2.8	ug/L	34	Standard
	Kr	83	34.3	17.8				ug/L	34	Standard
|	Ho	165	509483.0	0.5				ug/L	745954	Standard
|	Pb	208	1382615.5	0.6	**38.4645**	0.702	1.8	ug/L	990	Standard
|	Bi	209	279732.2	1.3				ug/L	414898	Standard
|	Th	232	338262.0	0.7				ug/L	510163	Standard
|	Ni -3	58	285233.5	0.3	**37.1278**	0.277	0.7	ug/L	242	KED
|	Ni -4	60	124084.2	0.5	**37.1406**	0.158	0.4	ug/L	100	KED
|	Ni -5	62	18315.4	0.8	**37.2576**	0.103	0.3	ug/L	19	KED
|	As-2	75	21903.4	1.1	**43.9649**	0.614	1.4	ug/L	3	KED
	Y-1	89	75167.6	1.3				ug/L	98389	KED
	Rh-1	103	81456.0	2.0				ug/L	118370	KED
|>	Ge	72	496302.4	1.0				ug/L	720115	Standard
|>	Tb	159	585765.1	1.9				ug/L	850893	Standard
|>	Ge-1	72	75522.8	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		68.920
|>	Tb	159		68.841
|>	Ge-1	72		75.675

Quantitative Analysis - Summary Report

Sample ID: 08-136-01d MSD 2X

Sample Date/Time: Tuesday, August 19, 2025 10:57:43
Report Date/Time: Tuesday, August 19, 2025 10:59:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-01d MSD 2X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	187171.4	1.5	**34.8970**	0.271	0.8	ug/L	162	Standard
|	As	75	134813.3	1.4	**41.6806**	0.354	0.8	ug/L	13407	Standard
|	As-1	75	125646.4	1.6	**41.5047**	0.380	0.9	ug/L	-163	Standard
|	Se	77	8567.2	2.4	**43.5335**	1.264	2.9	ug/L	118	Standard
|	Se -1	78	36707.4	0.4	**43.6635**	0.416	1.0	ug/L	13606	Standard
|	Br	79	12247.9	1.4				ug/L	470	Standard
|	Se -2	82	10860.8	0.5	**43.1486**	0.089	0.2	ug/L	34	Standard
	Kr	83	34.3	16.8				ug/L	34	Standard
|	Ho	165	559038.0	0.6				ug/L	745954	Standard
|	Pb	208	1355001.0	1.4	**34.4996**	0.462	1.3	ug/L	990	Standard
|	Bi	209	301275.3	1.3				ug/L	414898	Standard
|	Th	232	361178.6	1.3				ug/L	510163	Standard
|	Ni -3	58	276597.5	0.8	**33.8419**	0.304	0.9	ug/L	242	KED
|	Ni -4	60	121175.5	1.0	**34.0931**	0.218	0.6	ug/L	100	KED
|	Ni -5	62	17553.1	1.9	**33.5607**	0.159	0.5	ug/L	19	KED
|	As-2	75	21281.2	0.3	**40.1577**	0.523	1.3	ug/L	3	KED
	Y-1	89	80407.4	1.9				ug/L	98389	KED
	Rh-1	103	86470.2	0.6				ug/L	118370	KED
|>	Ge	72	536161.4	0.7				ug/L	720115	Standard
|>	Tb	159	640042.9	2.6				ug/L	850893	Standard
|>	Ge-1	72	80339.3	1.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		74.455
|>	Tb	159		75.220
|>	Ge-1	72		80.501

Quantitative Analysis - Summary Report

Sample ID: 08-136-02d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:01:52
Report Date/Time: Tuesday, August 19, 2025 11:03:41
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-02d 2X.058

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	5926.9	1.9	**1.0713**	0.036	3.4	ug/L	162	Standard
|	**As**	75	18026.5	0.3	**2.9274**	0.094	3.2	ug/L	13407	Standard
|	**As-1**	75	7302.1	0.8	**2.5145**	0.044	1.7	ug/L	-163	Standard
|	**Se**	77	190.3	3.3	**0.5319**	0.046	8.6	ug/L	118	Standard
|	**Se -1**	78	10880.5	1.0	**1.8929**	0.294	15.5	ug/L	13606	Standard
|	**Br**	79	10438.8	1.4				ug/L	470	Standard
|	**Se -2**	82	77.3	10.5	**0.1413**	0.029	20.3	ug/L	34	Standard
	Kr	83	33.3	32.1				ug/L	34	Standard
|	**Ho**	165	534251.4	0.7				ug/L	745954	Standard
|	**Pb**	208	973.3	0.8	**0.0262**	0.000	1.5	ug/L	990	Standard
|	**Bi**	209	293657.6	1.4				ug/L	414898	Standard
|	**Th**	232	351451.4	0.7				ug/L	510163	Standard
|	**Ni -3**	58	7584.0	2.8	**0.8864**	0.025	2.9	ug/L	242	KED
|	**Ni -4**	60	2996.3	1.4	**0.8089**	0.013	1.6	ug/L	100	KED
|	**Ni -5**	62	454.7	2.4	**0.8421**	0.018	2.1	ug/L	19	KED
|	**As-2**	75	1328.7	6.5	**2.5412**	0.155	6.1	ug/L	3	KED
	Y-1	89	78961.6	0.8				ug/L	98389	KED
	Rh-1	103	86815.0	0.3				ug/L	118370	KED
|>	**Ge**	72	521855.9	1.6				ug/L	720115	Standard
|>	**Tb**	159	623175.3	2.2				ug/L	850893	Standard
|>	**Ge-1**	72	78718.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		72.468
|>	Tb	159		73.238
|>	Ge-1	72		78.877

Quantitative Analysis - Summary Report

Sample ID: 08-136-03d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:06:01
Report Date/Time: Tuesday, August 19, 2025 11:07:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-03d 2X.059

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	17327.2	2.6	**3.1969**	0.082	2.6	ug/L	162	Standard
|	**As**	75	27835.8	0.1	**6.1071**	0.015	0.3	ug/L	13407	Standard
|	**As-1**	75	17186.9	0.4	**5.7570**	0.031	0.5	ug/L	-163	Standard
|	**Se**	77	188.7	3.8	**0.5041**	0.037	7.4	ug/L	118	Standard
|	**Se -1**	78	10916.2	0.5	**1.6076**	0.073	4.5	ug/L	13606	Standard
|	**Br**	79	49950.8	0.7				ug/L	470	Standard
|	**Se -2**	82	121.0	16.0	**0.3113**	0.078	24.9	ug/L	34	Standard
	Kr	83	33.7	9.1				ug/L	34	Standard
|	**Ho**	165	532970.3	0.7				ug/L	745954	Standard
|	**Pb**	208	1254.4	1.0	**0.0334**	0.000	1.5	ug/L	990	Standard
|	**Bi**	209	298599.2	2.4				ug/L	414898	Standard
|	**Th**	232	359070.5	1.8				ug/L	510163	Standard
|	**Ni -3**	58	34002.8	0.2	**3.8945**	0.012	0.3	ug/L	242	KED
|	**Ni -4**	60	10698.7	2.0	**2.8092**	0.048	1.7	ug/L	100	KED
|	**Ni -5**	62	1582.4	2.9	**2.8303**	0.086	3.0	ug/L	19	KED
|	**As-2**	75	3293.7	2.4	**5.8846**	0.145	2.5	ug/L	3	KED
	Y-1	89	85096.1	1.5				ug/L	98389	KED
	Rh-1	103	90284.1	1.8				ug/L	118370	KED
|>	**Ge**	72	531789.5	0.1				ug/L	720115	Standard
|>	**Tb**	159	625053.1	0.6				ug/L	850893	Standard
|>	**Ge-1**	72	84620.6	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.848
|>	Tb	159		73.458
|>	Ge-1	72		84.791

Quantitative Analysis - Summary Report

Sample ID: 08-136-04d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:10:11
Report Date/Time: Tuesday, August 19, 2025 11:11:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-04d 2X.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3674.1	0.2	**0.6016**	0.008	1.3	ug/L	162	Standard
|	**As**	75	11654.8	2.3	**0.5359**	0.127	23.6	ug/L	13407	Standard
|	**As-1**	75	1092.2	6.9	**0.3891**	0.028	7.3	ug/L	-163	Standard
|	**Se**	77	228.7	3.6	**0.6701**	0.028	4.2	ug/L	118	Standard
|	**Se -1**	78	10695.7	1.9	**0.6380**	0.502	78.6	ug/L	13606	Standard
|	**Br**	79	21751.9	0.5				ug/L	470	Standard
|	**Se -2**	82	68.0	18.4	**0.0889**	0.050	56.5	ug/L	34	Standard
	Kr	83	36.7	6.3				ug/L	34	Standard
|	**Ho**	165	566652.6	2.2				ug/L	745954	Standard
|	**Pb**	208	1177.0	3.5	**0.0296**	0.000	1.2	ug/L	990	Standard
|	**Bi**	209	318813.0	0.7				ug/L	414898	Standard
|	**Th**	232	378598.0	1.3				ug/L	510163	Standard
|	**Ni -3**	58	2272.1	2.3	**0.2029**	0.008	3.8	ug/L	242	KED
|	**Ni -4**	60	995.7	0.8	**0.2143**	0.004	1.7	ug/L	100	KED
|	**Ni -5**	62	140.7	6.6	**0.2101**	0.017	8.2	ug/L	19	KED
|	**As-2**	75	228.3	4.2	**0.3922**	0.016	4.1	ug/L	3	KED
	Y-1	89	83953.0	1.6				ug/L	98389	KED
	Rh-1	103	90141.5	1.1				ug/L	118370	KED
|>	**Ge**	72	550816.0	1.2				ug/L	720115	Standard
|>	**Tb**	159	664339.4	2.3				ug/L	850893	Standard
|>	**Ge-1**	72	84390.5	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.490
|>	Tb	159		78.076
|>	Ge-1	72		84.561

Quantitative Analysis - Summary Report

Sample ID: 08-136-05d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:14:19
Report Date/Time: Tuesday, August 19, 2025 11:16:08
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-05d 2X.061

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	8752.0	2.4	**1.5756**	0.038	2.4	ug/L	162	Standard
|	**As**	75	11520.9	0.8	**0.6106**	0.014	2.3	ug/L	13407	Standard
|	**As-1**	75	1205.6	2.4	**0.4377**	0.010	2.3	ug/L	-163	Standard
|	**Se**	77	188.7	3.1	**0.5004**	0.026	5.1	ug/L	118	Standard
|	**Se -1**	78	10530.5	0.9	**0.9058**	0.095	10.4	ug/L	13606	Standard
|	**Br**	79	32313.5	0.8				ug/L	470	Standard
|	**Se -2**	82	100.0	3.6	**0.2254**	0.016	7.2	ug/L	34	Standard
	Kr	83	29.3	11.0				ug/L	34	Standard
|	**Ho**	165	543978.9	1.7				ug/L	745954	Standard
|	**Pb**	208	604.0	2.0	**0.0161**	0.000	2.0	ug/L	990	Standard
|	**Bi**	209	308371.2	0.9				ug/L	414898	Standard
|	**Th**	232	362783.6	0.9				ug/L	510163	Standard
|	**Ni -3**	58	9894.1	1.8	**1.1446**	0.034	3.0	ug/L	242	KED
|	**Ni -4**	60	4265.3	2.0	**1.1435**	0.042	3.6	ug/L	100	KED
|	**Ni -5**	62	619.3	3.6	**1.1334**	0.025	2.2	ug/L	19	KED
|	**As-2**	75	193.0	12.1	**0.3445**	0.045	12.9	ug/L	3	KED
	Y-1	89	80825.1	2.7				ug/L	98389	KED
	Rh-1	103	87062.5	1.4				ug/L	118370	KED
| >	**Ge**	72	533801.6	0.4				ug/L	720115	Standard
| >	**Tb**	159	640270.1	0.7				ug/L	850893	Standard
| >	**Ge-1**	72	80743.6	1.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		74.127
| >	Tb	159		75.247
| >	Ge-1	72		80.906

Quantitative Analysis - Summary Report

Sample ID: 08-136-06d 2X

Sample Date/Time: Tuesday, August 19, 2025 11:18:28
Report Date/Time: Tuesday, August 19, 2025 11:20:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-136-06d 2X.062

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	3858.5	1.0	**0.6611**	0.005	0.8	ug/L	162	Standard
|	**As**	75	11729.4	1.6	**0.7003**	0.051	7.3	ug/L	13407	Standard
|	**As-1**	75	1065.9	6.5	**0.3930**	0.021	5.2	ug/L	-163	Standard
|	**Se**	77	233.0	12.0	**0.7361**	0.155	21.1	ug/L	118	Standard
|	**Se -1**	78	10813.1	1.7	**1.4605**	0.307	21.0	ug/L	13606	Standard
|	**Br**	79	22584.2	2.2				ug/L	470	Standard
|	**Se -2**	82	74.7	3.1	**0.1254**	0.011	8.7	ug/L	34	Standard
	Kr	83	25.3	28.0				ug/L	34	Standard
|	**Ho**	165	553277.0	2.2				ug/L	745954	Standard
|	**Pb**	208	1198.4	1.1	**0.0311**	0.000	1.6	ug/L	990	Standard
|	**Bi**	209	304320.3	0.4				ug/L	414898	Standard
|	**Th**	232	363996.6	1.1				ug/L	510163	Standard
|	**Ni -3**	58	2427.4	3.8	**0.2308**	0.012	5.0	ug/L	242	KED
|	**Ni -4**	60	1056.0	1.7	**0.2403**	0.005	2.1	ug/L	100	KED
|	**Ni -5**	62	153.0	12.7	**0.2422**	0.036	14.9	ug/L	19	KED
|	**As-2**	75	211.0	10.7	**0.3742**	0.042	11.3	ug/L	3	KED
	Y-1	89	81319.8	0.9				ug/L	98389	KED
	Rh-1	103	87220.5	1.5				ug/L	118370	KED
|>	**Ge**	72	531119.7	0.8				ug/L	720115	Standard
|>	**Tb**	159	642917.6	2.4				ug/L	850893	Standard
|>	**Ge-1**	72	81563.5	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		73.755
|>	Tb	159		75.558
|>	Ge-1	72		81.728

Quantitative Analysis - Summary Report

Sample ID: 08-139-01c 2X

Sample Date/Time: Tuesday, August 19, 2025 11:22:36
Report Date/Time: Tuesday, August 19, 2025 11:24:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-139-01c 2X.063

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	1437.1	3.0	**0.2007**	0.008	4.0	ug/L	162	Standard
|	**As**	75	10577.2	2.0	**0.2631**	0.059	22.4	ug/L	13407	Standard
|	**As-1**	75	76.3	198.0	**0.0630**	0.049	78.4	ug/L	-163	Standard
|	**Se**	77	391.7	5.5	**1.5302**	0.123	8.1	ug/L	118	Standard
|	**Se -1**	78	10612.9	0.6	**0.8860**	0.136	15.3	ug/L	13606	Standard
|	**Br**	79	26574.7	0.8				ug/L	470	Standard
|	**Se -2**	82	59.7	18.5	**0.0617**	0.045	73.0	ug/L	34	Standard
	Kr	83	29.0	17.2				ug/L	34	Standard
|	**Ho**	165	564803.0	1.5				ug/L	745954	Standard
|	**Pb**	208	2001.4	1.5	**0.0502**	0.001	2.8	ug/L	990	Standard
|	**Bi**	209	313216.0	1.1				ug/L	414898	Standard
|	**Th**	232	364087.7	0.7				ug/L	510163	Standard
|	**Ni -3**	58	1917.3	6.8	**0.1498**	0.015	10.3	ug/L	242	KED
|	**Ni -4**	60	370.0	7.9	**0.0413**	0.008	19.1	ug/L	100	KED
|	**Ni -5**	62	58.3	15.6	**0.0545**	0.015	28.4	ug/L	19	KED
|	**As-2**	75	21.0	21.8	**0.0177**	0.008	45.1	ug/L	3	KED
	Y-1	89	89367.4	1.2				ug/L	98389	KED
	Rh-1	103	97676.5	0.9				ug/L	118370	KED
|>	**Ge**	72	538612.0	0.7				ug/L	720115	Standard
|>	**Tb**	159	658797.7	1.4				ug/L	850893	Standard
|>	**Ge-1**	72	89037.6	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		74.795
|>	Tb	159		77.424
|>	Ge-1	72		89.217

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 11:26:45
Report Date/Time: Tuesday, August 19, 2025 11:28:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.064

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	217632.3	0.8	**40.5325**	0.943	2.3	ug/L	162	Standard
|	**As**	75	132191.8	0.3	**40.7442**	0.683	1.7	ug/L	13407	Standard
|	**As-1**	75	123377.8	0.6	**40.6964**	0.467	1.1	ug/L	-163	Standard
|	**Se**	77	8058.9	1.4	**40.8551**	0.609	1.5	ug/L	118	Standard
|	**Se -1**	78	35416.5	0.3	**41.4676**	1.121	2.7	ug/L	13606	Standard
|	**Br**	79	775.4	7.5				ug/L	470	Standard
|	**Se -2**	82	10490.9	1.6	**41.6050**	0.232	0.6	ug/L	34	Standard
	Kr	83	33.7	32.7				ug/L	34	Standard
|	**Ho**	165	562800.8	0.9				ug/L	745954	Standard
|	**Pb**	208	1573798.3	0.3	**39.1838**	0.527	1.3	ug/L	990	Standard
|	**Bi**	209	324576.5	1.7				ug/L	414898	Standard
|	**Th**	232	373294.3	0.1				ug/L	510163	Standard
|	**Ni -3**	58	334664.6	0.3	**37.6958**	0.244	0.6	ug/L	242	KED
|	**Ni -4**	60	145039.6	0.3	**37.5671**	0.280	0.7	ug/L	100	KED
|	**Ni -5**	62	21088.2	0.6	**37.1204**	0.031	0.1	ug/L	19	KED
|	**As-2**	75	23076.3	1.0	**40.0798**	0.611	1.5	ug/L	3	KED
	Y-1	89	87288.9	0.6				ug/L	98389	KED
	Rh-1	103	97693.2	0.3				ug/L	118370	KED
| >	**Ge**	72	537038.3	1.7				ug/L	720115	Standard
| >	**Tb**	159	654455.3	1.4				ug/L	850893	Standard
| >	**Ge-1**	72	87277.5	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	101.331	
|	As	75	101.860	
|	As-1	75	101.741	
|	Se	77	102.138	
|	Se -1	78	103.669	
|	Br	79		
|	Se -2	82	104.012	
	Kr	83		
|	Ho	165		
|	Pb	208	97.959	
|	Bi	209		
|	Th	232		
|	Ni -3	58	94.239	
|	Ni -4	60	93.918	
|	Ni -5	62	92.801	
|	As-2	75	100.200	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		74.577
| >	Tb	159		76.914
| >	Ge-1	72		87.453

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 11:30:56
Report Date/Time: Tuesday, August 19, 2025 11:32:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.065

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	107938.6	0.7	**20.2352**	0.212	1.0	ug/L	162	Standard
|	**As**	75	69416.4	1.5	**20.0452**	0.255	1.3	ug/L	13407	Standard
|	**As-1**	75	60004.9	1.4	**19.9768**	0.203	1.0	ug/L	-163	Standard
|	**Se**	77	4062.9	0.8	**20.5368**	0.067	0.3	ug/L	118	Standard
|	**Se -1**	78	22554.8	1.1	**20.7557**	0.253	1.2	ug/L	13606	Standard
|	**Br**	79	587.3	3.1				ug/L	470	Standard
|	**Se -2**	82	5190.6	0.3	**20.6715**	0.102	0.5	ug/L	34	Standard
	Kr	83	30.3	18.2				ug/L	34	Standard
|	**Ho**	165	553362.1	2.5				ug/L	745954	Standard
|	**Pb**	208	778533.2	1.6	**19.5907**	0.804	4.1	ug/L	990	Standard
|	**Bi**	209	316346.5	2.0				ug/L	414898	Standard
|	**Th**	232	362378.1	0.8				ug/L	510163	Standard
|	**Ni -3**	58	166399.4	0.6	**19.0287**	0.141	0.7	ug/L	242	KED
|	**Ni -4**	60	71902.5	0.8	**18.9120**	0.170	0.9	ug/L	100	KED
|	**Ni -5**	62	10605.6	1.0	**18.9621**	0.256	1.3	ug/L	19	KED
|	**As-2**	75	11541.7	0.7	**20.3753**	0.179	0.9	ug/L	3	KED
	Y-1	89	85612.1	1.4				ug/L	98389	KED
	Rh-1	103	96577.1	1.3				ug/L	118370	KED
| >	**Ge**	72	532526.0	0.5				ug/L	720115	Standard
| >	**Tb**	159	648087.8	3.8				ug/L	850893	Standard
| >	**Ge-1**	72	85826.7	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	101.176	
|	As	75	100.226	
|	As-1	75	99.884	
|	Se	77	102.684	
|	Se -1	78	103.779	
|	Br	79		
|	Se -2	82	103.358	
	Kr	83		
|	Ho	165		
|	Pb	208	97.953	
|	Bi	209		
|	Th	232		
|	Ni -3	58	95.143	
|	Ni -4	60	94.560	
|	Ni -5	62	94.811	
|	As-2	75	101.876	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		73.950
| >	Tb	159		76.166
| >	Ge-1	72		86.000

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 11:35:06
Report Date/Time: Tuesday, August 19, 2025 11:36:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.066

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	174.0	13.3	**-0.0330**	0.004	12.6	ug/L	162	Standard
|	**As**	75	10034.4	0.9	**0.2070**	0.068	33.0	ug/L	13407	Standard
|	**As-1**	75	-56.0	4.2	**0.0189**	0.001	3.2	ug/L	-163	Standard
|	**Se**	77	92.3	10.3	**0.0171**	0.056	326.3	ug/L	118	Standard
|	**Se -1**	78	10154.9	0.9	**0.7550**	0.332	44.0	ug/L	13606	Standard
|	**Br**	79	450.0	0.8				ug/L	470	Standard
|	**Se -2**	82	40.3	5.2	**-0.0092**	0.009	98.6	ug/L	34	Standard
	Kr	83	26.3	17.5				ug/L	34	Standard
|	**Ho**	165	535463.5	2.1				ug/L	745954	Standard
|	**Pb**	208	867.0	5.1	**0.0235**	0.001	4.6	ug/L	990	Standard
|	**Bi**	209	314693.1	1.4				ug/L	414898	Standard
|	**Th**	232	358694.7	1.5				ug/L	510163	Standard
|	**Ni -3**	58	255.1	4.1	**-0.0333**	0.001	2.9	ug/L	242	KED
|	**Ni -4**	60	115.0	2.3	**-0.0228**	0.001	2.7	ug/L	100	KED
|	**Ni -5**	62	16.7	30.2	**-0.0167**	0.009	54.1	ug/L	19	KED
|	**As-2**	75	10.0	60.8	**-0.0006**	0.011	1839.8	ug/L	3	KED
	Y-1	89	86790.2	0.3				ug/L	98389	KED
	Rh-1	103	95576.0	0.8				ug/L	118370	KED
|>	**Ge**	72	519365.8	1.2				ug/L	720115	Standard
|>	**Tb**	159	620773.2	1.1				ug/L	850893	Standard
|>	**Ge-1**	72	86734.2	0.7				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		72.123
|>	Tb	159		72.955
|>	Ge-1	72		86.909

Quantitative Analysis - Summary Report

Sample ID: 08-156-01d 10X

Sample Date/Time: Tuesday, August 19, 2025 11:38:26
Report Date/Time: Tuesday, August 19, 2025 11:40:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-01d 10X.067

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	8067.6	2.3	**1.9226**	0.068	3.5	ug/L	162	Standard
|	**As**	75	11199.9	3.5	**1.6807**	0.214	12.7	ug/L	13407	Standard
|	**As-1**	75	6104.2	7.6	**2.6967**	0.204	7.6	ug/L	-163	Standard
|	**Se**	77	15728.7	3.0	**106.1549**	4.357	4.1	ug/L	118	Standard
|	**Se -1**	78	10330.1	2.9	**5.9091**	0.884	15.0	ug/L	13606	Standard
|	**Br**	79	1726957.9	1.0				ug/L	470	Standard
|	**Se -2**	82	2069.1	0.4	**10.7172**	0.169	1.6	ug/L	34	Standard
	Kr	83	507.7	16.5				ug/L	34	Standard
|	**Ho**	165	410402.8	0.8				ug/L	745954	Standard
|	**Pb**	208	1060.7	4.2	**0.0375**	0.002	5.9	ug/L	990	Standard
|	**Bi**	209	220501.7	0.4				ug/L	414898	Standard
|	**Th**	232	281992.1	0.7				ug/L	510163	Standard
|	**Ni -3**	58	5180.3	0.3	**0.6030**	0.008	1.3	ug/L	242	KED
|	**Ni -4**	60	2138.8	1.4	**0.5787**	0.007	1.3	ug/L	100	KED
|	**Ni -5**	62	425.7	8.0	**0.8077**	0.069	8.6	ug/L	19	KED
|	**As-2**	75	275.3	3.7	**0.5263**	0.015	2.9	ug/L	3	KED
	Y-1	89	74191.2	0.3				ug/L	98389	KED
	Rh-1	103	72564.8	0.8				ug/L	118370	KED
|>	**Ge**	72	406325.7	1.2				ug/L	720115	Standard
|>	**Tb**	159	470595.8	3.7				ug/L	850893	Standard
|>	**Ge-1**	72	76680.6	1.0				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		56.425
|>	Tb	159		55.306
|>	Ge-1	72		76.835

Quantitative Analysis - Summary Report

Sample ID: 08-156-02d 10X

Sample Date/Time: Tuesday, August 19, 2025 11:42:36
Report Date/Time: Tuesday, August 19, 2025 11:44:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-02d 10X.068

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	1673.4	3.6	**0.2739**	0.009	3.1	ug/L	162	Standard
|	As	75	14477.6	2.0	**2.0102**	0.102	5.1	ug/L	13407	Standard
|	As-1	75	4697.1	2.5	**1.7269**	0.051	2.9	ug/L	-163	Standard
|	Se	77	857.7	1.1	**4.3266**	0.107	2.5	ug/L	118	Standard
|	Se -1	78	10072.2	1.9	**1.5520**	0.287	18.5	ug/L	13606	Standard
|	Br	79	71352.8	2.2				ug/L	470	Standard
|	Se -2	82	129.3	7.4	**0.3870**	0.048	12.4	ug/L	34	Standard
	Kr	83	34.7	15.9				ug/L	34	Standard
|	Ho	165	502135.3	0.5				ug/L	745954	Standard
|	Pb	208	1855.0	1.5	**0.0527**	0.001	1.9	ug/L	990	Standard
|	Bi	209	288647.3	0.6				ug/L	414898	Standard
|	Th	232	341047.7	0.4				ug/L	510163	Standard
|	Ni -3	58	3376.9	3.5	**0.3038**	0.011	3.7	ug/L	242	KED
|	Ni -4	60	938.4	4.3	**0.1811**	0.011	6.0	ug/L	100	KED
|	Ni -5	62	141.7	4.0	**0.1936**	0.008	4.4	ug/L	19	KED
|	As-2	75	1091.0	1.7	**1.8033**	0.027	1.5	ug/L	3	KED
	Y-1	89	90157.9	0.8				ug/L	98389	KED
	Rh-1	103	94642.8	1.4				ug/L	118370	KED
|>	Ge	72	492200.6	1.1				ug/L	720115	Standard
|>	Tb	159	581678.0	1.4				ug/L	850893	Standard
|>	Ge-1	72	90838.9	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		68.350
|>	Tb	159		68.361
|>	Ge-1	72		91.022

Quantitative Analysis - Summary Report

Sample ID: 08-156-03d 10X

Sample Date/Time: Tuesday, August 19, 2025 11:46:45
Report Date/Time: Tuesday, August 19, 2025 11:48:34
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-03d 10X.069

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	8402.1	2.3	**2.0594**	0.050	2.4	ug/L	162	Standard
|	**As**	75	13527.8	1.8	**2.8613**	0.170	5.9	ug/L	13407	Standard
|	**As-1**	75	5939.5	6.8	**2.6930**	0.178	6.6	ug/L	-163	Standard
|	**Se**	77	17008.8	0.6	**117.8584**	2.039	1.7	ug/L	118	Standard
|	**Se -1**	78	12721.0	2.7	**11.7954**	0.971	8.2	ug/L	13606	Standard
|	**Br**	79	1589130.2	0.2				ug/L	470	Standard
|	**Se -2**	82	2032.8	1.9	**10.8066**	0.103	1.0	ug/L	34	Standard
	Kr	83	1009.7	3.3				ug/L	34	Standard
|	**Ho**	165	402111.7	0.9				ug/L	745954	Standard
|	**Pb**	208	947.0	0.4	**0.0338**	0.000	0.4	ug/L	990	Standard
|	**Bi**	209	221718.4	0.9				ug/L	414898	Standard
|	**Th**	232	283579.5	1.1				ug/L	510163	Standard
|	**Ni -3**	58	5284.3	0.9	**0.5949**	0.008	1.4	ug/L	242	KED
|	**Ni -4**	60	2134.8	3.4	**0.5576**	0.022	3.9	ug/L	100	KED
|	**Ni -5**	62	507.0	3.2	**0.9387**	0.033	3.5	ug/L	19	KED
|	**As-2**	75	276.7	4.5	**0.5118**	0.025	4.8	ug/L	3	KED
	Y-1	89	77594.2	0.6				ug/L	98389	KED
	Rh-1	103	74953.8	1.7				ug/L	118370	KED
|>	**Ge**	72	395871.5	1.1				ug/L	720115	Standard
|>	**Tb**	159	466463.6	0.8				ug/L	850893	Standard
|>	**Ge-1**	72	79183.5	0.6				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		54.973
|>	Tb	159		54.820
|>	Ge-1	72		79.343

Quantitative Analysis - Summary Report

Sample ID: 08-156-01c 10X

Sample Date/Time: Tuesday, August 19, 2025 11:50:54
Report Date/Time: Tuesday, August 19, 2025 11:52:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-01c 10X.070

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	8337.1	0.5	2.0193	0.040	2.0	ug/L	162	Standard
|	As	75	15312.3	2.1	3.5872	0.069	1.9	ug/L	13407	Standard
|	As-1	75	6089.8	3.0	2.7294	0.070	2.6	ug/L	-163	Standard
|	Se	77	15956.6	0.8	109.2917	2.396	2.2	ug/L	118	Standard
|	Se -1	78	13681.2	2.6	13.5733	0.451	3.3	ug/L	13606	Standard
|	Br	79	1450925.8	1.4				ug/L	470	Standard
|	Se -2	82	1769.8	4.4	9.2773	0.367	4.0	ug/L	34	Standard
	Kr	83	844.0	2.8				ug/L	34	Standard
|	Ho	165	405773.6	0.7				ug/L	745954	Standard
|	Pb	208	1600.0	0.2	0.0562	0.001	1.5	ug/L	990	Standard
|	Bi	209	219381.6	1.5				ug/L	414898	Standard
|	Th	232	280564.7	0.7				ug/L	510163	Standard
|	Ni -3	58	5228.1	2.6	0.5589	0.015	2.7	ug/L	242	KED
|	Ni -4	60	2148.8	1.4	0.5342	0.008	1.5	ug/L	100	KED
|	Ni -5	62	454.3	5.1	0.7968	0.037	4.6	ug/L	19	KED
|	As-2	75	346.7	9.1	0.6161	0.054	8.8	ug/L	3	KED
	Y-1	89	84229.6	1.4				ug/L	98389	KED
	Rh-1	103	82168.3	0.6				ug/L	118370	KED
| >	Ge	72	400401.5	1.5				ug/L	720115	Standard
| >	Tb	159	470085.0	1.6				ug/L	850893	Standard
| >	Ge-1	72	82876.0	0.9				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		55.602
| >	Tb	159		55.246
| >	Ge-1	72		83.043

Quantitative Analysis - Summary Report

Sample ID: 08-156-02c 10X

Sample Date/Time: Tuesday, August 19, 2025 11:55:03
Report Date/Time: Tuesday, August 19, 2025 11:56:52
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-02c 10X.071

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	2238.2	1.1	0.3911	0.005	1.3	ug/L	162	Standard
|	As	75	14915.2	0.9	2.1950	0.048	2.2	ug/L	13407	Standard
|	As-1	75	4454.5	1.1	1.6472	0.016	1.0	ug/L	-163	Standard
|	Se	77	1027.7	4.5	5.3045	0.249	4.7	ug/L	118	Standard
|	Se -1	78	10744.7	1.0	2.8430	0.176	6.2	ug/L	13606	Standard
|	Br	79	68303.3	2.0				ug/L	470	Standard
|	Se -2	82	127.3	8.2	0.3806	0.044	11.6	ug/L	34	Standard
	Kr	83	40.0	19.5				ug/L	34	Standard
|	Ho	165	508810.8	2.7				ug/L	745954	Standard
|	Pb	208	5152.4	1.2	0.1441	0.001	0.4	ug/L	990	Standard
|	Bi	209	283624.5	0.4				ug/L	414898	Standard
|	Th	232	330592.1	1.2				ug/L	510163	Standard
|	Ni -3	58	4356.6	2.8	0.3842	0.012	3.2	ug/L	242	KED
|	Ni -4	60	1326.7	2.8	0.2598	0.008	3.2	ug/L	100	KED
|	Ni -5	62	226.3	7.3	0.3161	0.026	8.3	ug/L	19	KED
|	As-2	75	1042.0	3.9	1.6267	0.065	4.0	ug/L	3	KED
	Y-1	89	99866.2	0.3				ug/L	98389	KED
	Rh-1	103	103350.2	1.2				ug/L	118370	KED
|>	Ge	72	489830.2	0.3				ug/L	720115	Standard
|>	Tb	159	585488.1	1.4				ug/L	850893	Standard
|>	Ge-1	72	96075.7	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		68.021
|>	Tb	159		68.809
|>	Ge-1	72		96.269

Quantitative Analysis - Summary Report

Sample ID: 08-156-03c 10X

Sample Date/Time: Tuesday, August 19, 2025 11:59:12
Report Date/Time: Tuesday, August 19, 2025 12:01:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\08-156-03c 10X.072

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	8178.7	2.2	1.9700	0.014	0.7	ug/L	162	Standard
|	As	75	16348.1	1.8	4.0175	0.121	3.0	ug/L	13407	Standard
|	As-1	75	6481.3	9.6	2.8893	0.266	9.2	ug/L	-163	Standard
|	Se	77	16472.5	0.9	112.3235	1.627	1.4	ug/L	118	Standard
|	Se -1	78	14200.4	2.5	14.5741	0.648	4.4	ug/L	13606	Standard
|	Br	79	1466696.3	2.2				ug/L	470	Standard
|	Se -2	82	1721.4	4.3	8.9758	0.247	2.8	ug/L	34	Standard
	Kr	83	809.7	4.2				ug/L	34	Standard
|	Ho	165	405121.6	0.8				ug/L	745954	Standard
|	Pb	208	1305.4	4.4	0.0460	0.001	2.2	ug/L	990	Standard
|	Bi	209	217048.4	0.5				ug/L	414898	Standard
|	Th	232	277160.2	0.4				ug/L	510163	Standard
|	Ni -3	58	4882.7	0.4	0.5199	0.003	0.7	ug/L	242	KED
|	Ni -4	60	2035.5	1.0	0.5052	0.007	1.5	ug/L	100	KED
|	Ni -5	62	445.3	1.0	0.7832	0.006	0.7	ug/L	19	KED
|	As-2	75	337.7	3.0	0.6020	0.019	3.2	ug/L	3	KED
	Y-1	89	85115.1	0.5				ug/L	98389	KED
	Rh-1	103	84201.4	0.4				ug/L	118370	KED
|>	Ge	72	402231.1	2.2				ug/L	720115	Standard
|>	Tb	159	469650.1	2.3				ug/L	850893	Standard
|>	Ge-1	72	82582.3	0.4				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		55.857
|>	Tb	159		55.195
|>	Ge-1	72		82.749

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, August 19, 2025 12:03:22
Report Date/Time: Tuesday, August 19, 2025 12:05:11
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 6.073

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	233376.7	1.2	**45.2678**	0.137	0.3	ug/L	162	Standard
|	As	75	122260.4	0.7	**39.1300**	0.839	2.1	ug/L	13407	Standard
|	As-1	75	111476.8	1.1	**38.3045**	0.935	2.4	ug/L	-163	Standard
|	Se	77	7405.6	1.4	**39.0786**	0.207	0.5	ug/L	118	Standard
|	Se -1	78	32645.6	0.4	**39.1525**	0.901	2.3	ug/L	13606	Standard
|	Br	79	11529.7	3.3				ug/L	470	Standard
|	Se -2	82	8626.6	2.4	**35.6197**	1.356	3.8	ug/L	34	Standard
	Kr	83	33.3	9.2				ug/L	34	Standard
|	Ho	165	524645.5	2.2				ug/L	745954	Standard
|	Pb	208	1461562.0	0.4	**39.1771**	0.557	1.4	ug/L	990	Standard
|	Bi	209	301126.3	0.4				ug/L	414898	Standard
|	Th	232	337044.7	2.1				ug/L	510163	Standard
|	Ni -3	58	354798.4	0.7	**36.6084**	0.434	1.2	ug/L	242	KED
|	Ni -4	60	153782.3	0.4	**36.4881**	0.460	1.3	ug/L	100	KED
|	Ni -5	62	22540.8	0.4	**36.3473**	0.289	0.8	ug/L	19	KED
|	As-2	75	26183.6	0.3	**41.6610**	0.522	1.3	ug/L	3	KED
	Y-1	89	99003.6	1.0				ug/L	98389	KED
	Rh-1	103	109703.6	0.4				ug/L	118370	KED
|>	Ge	72	515612.8	1.4				ug/L	720115	Standard
|>	Tb	159	607911.5	1.7				ug/L	850893	Standard
|>	Ge-1	72	95275.7	0.9				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	113.170	
|	As	75	97.825	
|	As-1	75	95.761	
|	Se	77	97.696	
|	Se -1	78	97.881	
|	Br	79		
|	Se -2	82	89.049	
	Kr	83		
|	Ho	165		
|	Pb	208	97.943	
|	Bi	209		
|	Th	232		
|	Ni -3	58	91.521	
|	Ni -4	60	91.220	
|	Ni -5	62	90.868	
|	As-2	75	104.152	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		71.601
|>	Tb	159		71.444
|>	Ge-1	72		95.468

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, August 19, 2025 12:07:32
Report Date/Time: Tuesday, August 19, 2025 12:09:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 7.074

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -1**	60	111917.4	0.4	**22.3694**	0.357	1.6	ug/L	162	Standard
|	**As**	75	65267.9	0.3	**20.0958**	0.311	1.5	ug/L	13407	Standard
|	**As-1**	75	54858.1	0.6	**19.4662**	0.148	0.8	ug/L	-163	Standard
|	**Se**	77	3714.8	2.2	**20.0018**	0.529	2.6	ug/L	118	Standard
|	**Se -1**	78	21242.4	0.6	**20.8996**	0.636	3.0	ug/L	13606	Standard
|	**Br**	79	8406.8	2.2				ug/L	470	Standard
|	**Se -2**	82	4282.0	3.0	**18.1508**	0.410	2.3	ug/L	34	Standard
	Kr	83	30.3	15.2				ug/L	34	Standard
|	**Ho**	165	502567.2	2.9				ug/L	745954	Standard
|	**Pb**	208	715917.7	1.3	**19.9738**	0.216	1.1	ug/L	990	Standard
|	**Bi**	209	291887.2	1.5				ug/L	414898	Standard
|	**Th**	232	327029.6	0.6				ug/L	510163	Standard
|	**Ni -3**	58	174701.0	0.6	**18.3018**	0.151	0.8	ug/L	242	KED
|	**Ni -4**	60	76024.4	0.7	**18.3191**	0.151	0.8	ug/L	100	KED
|	**Ni -5**	62	11236.8	1.3	**18.4050**	0.218	1.2	ug/L	19	KED
|	**As-2**	75	12789.7	0.5	**20.6868**	0.129	0.6	ug/L	3	KED
	Y-1	89	95750.2	1.2				ug/L	98389	KED
	Rh-1	103	106859.2	0.5				ug/L	118370	KED
|>	**Ge**	72	499689.6	1.4				ug/L	720115	Standard
|>	**Tb**	159	584074.3	2.4				ug/L	850893	Standard
|>	**Ge-1**	72	93675.5	0.2				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60	111.847	
|	As	75	100.479	
|	As-1	75	97.331	
|	Se	77	100.009	
|	Se -1	78	104.498	
|	Br	79		
|	Se -2	82	90.754	
	Kr	83		
|	Ho	165		
|	Pb	208	99.869	
|	Bi	209		
|	Th	232		
|	Ni -3	58	91.509	
|	Ni -4	60	91.595	
|	Ni -5	62	92.025	
|	As-2	75	103.434	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		69.390
|>	Tb	159		68.642
|>	Ge-1	72		93.864

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, August 19, 2025 12:11:42
Report Date/Time: Tuesday, August 19, 2025 12:13:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y250819A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y250819A\QC Std 8.075

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni -1	60	183.7	8.4	-0.0297	0.002	7.9	ug/L	162	Standard
|	As	75	10183.2	1.6	0.4063	0.147	36.2	ug/L	13407	Standard
|	As-1	75	32.8	82.2	0.0498	0.010	19.9	ug/L	-163	Standard
|	Se	77	219.7	10.5	0.7416	0.138	18.5	ug/L	118	Standard
|	Se -1	78	10224.0	1.4	1.6009	0.667	41.7	ug/L	13606	Standard
|	Br	79	6686.9	1.2				ug/L	470	Standard
|	Se -2	82	44.0	12.0	0.0131	0.018	138.8	ug/L	34	Standard
	Kr	83	24.0	4.2				ug/L	34	Standard
|	Ho	165	518768.0	1.6				ug/L	745954	Standard
|	Pb	208	1002.0	2.6	0.0279	0.001	2.3	ug/L	990	Standard
|	Bi	209	297649.3	0.8				ug/L	414898	Standard
|	Th	232	331530.2	1.7				ug/L	510163	Standard
|	Ni -3	58	269.3	9.7	-0.0339	0.003	8.1	ug/L	242	KED
|	Ni -4	60	120.0	4.3	-0.0237	0.001	4.9	ug/L	100	KED
|	Ni -5	62	26.0	27.7	-0.0035	0.012	330.5	ug/L	19	KED
|	As-2	75	13.7	29.6	0.0041	0.007	161.9	ug/L	3	KED
	Y-1	89	95016.3	0.7				ug/L	98389	KED
	Rh-1	103	104181.2	0.6				ug/L	118370	KED
| >	Ge	72	498549.7	2.4				ug/L	720115	Standard
| >	Tb	159	601204.0	0.3				ug/L	850893	Standard
| >	Ge-1	72	93521.1	0.5				ug/L	99799	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -1	60		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		69.232
|>	Tb	159		70.656
|>	Ge-1	72		93.710

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	Init	Date
Std 1	TM12-57-01	6020 100x	TM12-54-88	9-1-25	.2	.05	.0002	50	5% HNO3	KPM	8-18-25
2	02	↓	↓		↓	.125	.0005				
3	03	6020 10x	TM12-56-24		2	.05	.002				
4	04	↓	↓	↓	↓	.125	.005				
5	05	IV6020Cal-1	V2MEB3742024	6-16-26	20	.05	.02				
6	06					.10	.04				
7	07	↓	↓	↓	↓	.25	.10				
Int	08	IVPECHK1	V2MEB5739735	5-27-26	10	.25	.05	↓	↓	↓	↓
Std 1	TM12-57-09	6020 100x	TM12-54-25	9-1-25	.2	.05	.0002	50	5% HNO3	KPM	8-20-25
2	10	↓	↓		↓	.125	.0005				
3	11	6020 10x	TM12-56-24		2	.05	.002				
4	12	↓	↓	↓	↓	.125	.005				
5	13	IV6020Cal-1	V2MEB3742024	6-16-26	20	.05	.02				
6	14					.10	.04				
7	15	↓	↓	↓	↓	.25	.10				
Int	16	IVPECHK1	V2MEB5739735	5-27-26	10	.25	.05	↓	↓	↓	↓
Std 1	TM12-57-17	6020 100x	TM12-54-25	9-1-25	.2	.05	.0002	50	5% HNO3	KPM	8-22-25
2	18	↓	↓		↓	.125	.0005				
3	19	6020 10x	TM12-56-24		2	.05	.002				
4	20	↓	↓		↓	.125	.005				
5	21	IV6020Cal1	V2MEB3742024	6-16-26	20	.05	.02				
6	22					.10	.04				
7	23	↓	↓	↓	↓	.25	.10				
Int	24	IVPECHK	V2MEB5739735	5-27-26	10	.25	.05	↓		↓	↓
Std 1	TM12-57-25	6020 100x	TM12-56-25	9-1-25	.2	.05	.0002	50	5% HNO3	KPM	8-26-25
2	26	↓	↓		↓	.125	.0005				
3	27	6020 10x	TM12-56-24		2	.05	.002				
4	28	↓	↓		↓	.125	.005				
5	29	IV6020Cal1	V2MEB3742024	6-16-26	20	.05	.02				
6	30					.10	.04				
7	31	↓	↓	↓	↓	.25	.10				
Int	32	IVPECHK	V2MEB5739735	5-27-26	10	.25	.05	↓		↓	↓

KPM 8-18-25 / KPM 8-20-25 / KPM 8-22-25 / KPM 8-26-25

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Attachment 3
Data Validation Report

Data Validation Report

2101 4th Avenue, Suite 950, Seattle, Washington 98121, Telephone: 206.728.2674 www.geoengineers.com

Project:	Dakota Creek Industries, Anacortes, Washington
Date:	September 25, 2025
GEI File No:	5147-006-19
Subject:	Post-Construction Compliance Groundwater Monitoring – August 2025 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 August 2025 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
2508-156	MW-2B-250813, DUP-1-250813, MW-8-250813

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.

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 within the appropriate temperatures of between two and six degrees Celsius. 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 (HNO_3) 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 2508-156: One field duplicate sample pair, MW-2B-250813 and DUP-1-250813, 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 are 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.

Attachment 4

Historical Groundwater Chemical Analytical Data

Table 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(j,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[6]	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[6]	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[6]	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[6]	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[6]	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
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*
MW-3A	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	--	--	--	--	--	--	--	--
	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	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
	08/19/24	GEI	µg/L	10.37	4.46	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
MW-4	09/04/01	Landau	µg/L	N/A	N/A	--	--	**17**	*10 U*	--	--	--	--	--	--	--	--
	10/24/01	Landau	µg/L	N/A	N/A	--	--	**15**	**2.7**	--	--	--	--	--	--	--	--
	06/05/02	Landau	µg/L	N/A	N/A	**8.0**	**3.4**	**9.0**	**1.1**	--	--	--	--	--	--	--	--
	08/19/02	Landau	µg/L	N/A	N/A	**12**	**3.3**	--	--	*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	2.55	11.03	**11.6**	**2.0**	--	--	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	2.98	10.6	**8.1**	**1.1**	--	--	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.013 U*
	08/16/12	GEI	µg/L	3.04	10.54	*9 U*	*20 U*	*9.5 U*	*20 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
	08/16/12	GEI	µg/L	4.37	9.21	**11**	8 U	**10**	8 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
	11/13/12	GEI	µg/L	3.31	10.27	*10 U*	5 U	*10 U*	5 U	**0.033**	**0.02**	**0.021**	**0.018**	**0.021**	**0.018**	**0.021**	**0.031**
	02/13/13	GEI	µg/L	3.45	10.13	8 U	8 U	8 U	8 U	0.0095 U	0.0095 U	0.0095 U	**0.011**	**0.013**	0.0095 U	0.0095 U	**0.015**
	02/11/16	GEI	µg/L	3.61	9.97	**3.5**	--	**3.5**	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.007 U
	08/18/16	GEI	µg/L	5.43	8.15	7.8 U	--	7.8 U	--	**0.013**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.008**
	02/15/17	GEI	µg/L	3.97	9.61	5.6 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
	08/24/17	GEI	µg/L	5.48	8.1	5.6 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
MW-5	06/17/08	GEI	µg/L	4.5	8.24	**10**	**5.2**	--	--	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.013 U

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(j,k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total cPAH TEQ[4] (ND=0.5RL)
MW-6	05/23/12	GEI	µg/L	7.52	4.94	3.5 U	*20 U*	3 U	*20 U*	**0.01**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	**0.008**
	08/16/12	GEI	µg/L	7.52	4.94	7.5 U	**18**	7.5 U	**19**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	11/13/12	GEI	µg/L	8.81	3.65	8 U	**18**	8 U	**18**	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.007 U
	02/13/13	GEI	µg/L	6.6	5.86	8 U	8 U	8 U	8 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
	02/11/16	GEI	µg/L	5.48	6.98	--	0.4 U	--	0.4 U	--	--	--	--	--	--	--	--
	08/19/16	GEI	µg/L	7.82	4.64	--	7.8 U	--	7 U	--	--	--	--	--	--	--	--
	02/16/17	GEI	µg/L	6.23	6.23	--	5.6 U	--	5 U	--	--	--	--	--	--	--	--
	08/24/17	GEI	µg/L	7.34	5.12	--	5.6 U	--	5 U	--	--	--	--	--	--	--	--
	11/28/23	GEI	µg/L	4.69	7.77	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
	11/28/23[5]	GEI	µg/L	4.69	7.77	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	7.58	4.88	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
	02/14/24[5]	GEI	µg/L	7.58	4.88	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
	05/24/24	GEI	µg/L	7.8	4.66	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
	05/24/24[5]	GEI	µg/L	7.8	4.66	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
	08/19/24	GEI	µg/L	8.01	4.45	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
	08/19/24[5]	GEI	µg/L	8.01	4.45	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
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
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

ND = Non-Detect

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.