

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2D26

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-01

% Solids: 82.2 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	2.5		01/06/2025	1548
7440-38-2	Arsenic	18		01/06/2025	1548
7440-39-3	Barium	29		01/06/2025	1548
7440-41-7	Beryllium	0.56		01/06/2025	1548
7440-43-9	Cadmium	10		01/06/2025	1548
7440-47-3	Chromium	3.7		01/06/2025	1548
7440-48-4	Cobalt	10		01/06/2025	1548
7440-50-8	Copper	660		01/06/2025	1548
7439-92-1	Lead	2700	D	01/06/2025	1748
7439-96-5	Manganese	14000	D	01/06/2025	1835
7440-02-0	Nickel	3.7		01/06/2025	1548
7782-49-2	Selenium	0.83	J	01/06/2025	1548
7440-22-4	Silver	17		01/06/2025	1548
7440-28-0	Thallium	0.32	J	01/06/2025	1548
7440-62-2	Vanadium	12		01/06/2025	1548
7440-66-6	Zinc	3600		01/06/2025	1548

NOTE: Hardness (total) is reported in mg/L

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MH2D29

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-02

% Solids: 85.9 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	34		01/06/2025	1551
7440-38-2	Arsenic	120		01/06/2025	1551
7440-39-3	Barium	17		01/06/2025	1551
7440-41-7	Beryllium	0.43		01/06/2025	1551
7440-43-9	Cadmium	25		01/06/2025	1551
7440-47-3	Chromium	2.1		01/06/2025	1551
7440-48-4	Cobalt	3.1		01/06/2025	1551
7440-50-8	Copper	660		01/06/2025	1551
7439-92-1	Lead	15000	D	01/06/2025	1903
7439-96-5	Manganese	17000	D	01/06/2025	1838
7440-02-0	Nickel	2.1		01/06/2025	1551
7782-49-2	Selenium	4.4		01/06/2025	1551
7440-22-4	Silver	58		01/06/2025	1551
7440-28-0	Thallium	0.42		01/06/2025	1551
7440-62-2	Vanadium	6.1		01/06/2025	1551
7440-66-6	Zinc	6500	D	01/06/2025	1751

NOTE: Hardness (total) is reported in mg/L

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MH2D32

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-03

% Solids: 88.8 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	9.2		01/06/2025	1554
7440-38-2	Arsenic	58		01/06/2025	1554
7440-39-3	Barium	94		01/06/2025	1554
7440-41-7	Beryllium	0.50		01/06/2025	1554
7440-43-9	Cadmium	5.1		01/06/2025	1554
7440-47-3	Chromium	31		01/06/2025	1554
7440-48-4	Cobalt	4.7		01/06/2025	1554
7440-50-8	Copper	370		01/06/2025	1554
7439-92-1	Lead	4900	D	01/06/2025	1819
7439-96-5	Manganese	1700		01/06/2025	1554
7440-02-0	Nickel	6.9		01/06/2025	1554
7782-49-2	Selenium	1.3	J	01/06/2025	1554
7440-22-4	Silver	22		01/06/2025	1554
7440-28-0	Thallium	0.23	J	01/06/2025	1554
7440-62-2	Vanadium	13		01/06/2025	1554
7440-66-6	Zinc	1400		01/06/2025	1554

NOTE: Hardness (total) is reported in mg/L

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MH2D35

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-04

% Solids: 82.6 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	24		01/06/2025	1557
7440-38-2	Arsenic	41		01/06/2025	1557
7440-39-3	Barium	94		01/06/2025	1557
7440-41-7	Beryllium	0.46		01/06/2025	1557
7440-43-9	Cadmium	24		01/06/2025	1557
7440-47-3	Chromium	2.9		01/06/2025	1557
7440-48-4	Cobalt	11		01/06/2025	1557
7440-50-8	Copper	4200		01/06/2025	1557
7439-92-1	Lead	10000	D	01/14/2025	1552
7439-96-5	Manganese	11000	D	01/06/2025	1823
7440-02-0	Nickel	3.9		01/06/2025	1557
7782-49-2	Selenium	4.4		01/06/2025	1557
7440-22-4	Silver	85		01/06/2025	1557
7440-28-0	Thallium	0.13	J	01/06/2025	1557
7440-62-2	Vanadium	12		01/06/2025	1557
7440-66-6	Zinc	3900		01/06/2025	1557

NOTE: Hardness (total) is reported in mg/L

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MH2D38

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-05

% Solids: 82.3 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	31		01/06/2025	1600
7440-38-2	Arsenic	740	D	01/06/2025	1758
7440-39-3	Barium	72		01/06/2025	1600
7440-41-7	Beryllium	0.32	J	01/06/2025	1600
7440-43-9	Cadmium	6.8		01/06/2025	1600
7440-47-3	Chromium	3.7		01/06/2025	1600
7440-48-4	Cobalt	4.7		01/06/2025	1600
7440-50-8	Copper	1200		01/06/2025	1600
7439-92-1	Lead	5300	D	01/06/2025	1826
7439-96-5	Manganese	1400		01/06/2025	1600
7440-02-0	Nickel	4.9		01/06/2025	1600
7782-49-2	Selenium	2.8		01/06/2025	1600
7440-22-4	Silver	44		01/06/2025	1600
7440-28-0	Thallium	0.57		01/06/2025	1600
7440-62-2	Vanadium	6.1		01/06/2025	1600
7440-66-6	Zinc	1500		01/06/2025	1600

NOTE: Hardness (total) is reported in mg/L

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MH2D41

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-06

% Solids: 73.5 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	5.6		01/06/2025	1603
7440-38-2	Arsenic	41		01/06/2025	1603
7440-39-3	Barium	120		01/06/2025	1603
7440-41-7	Beryllium	0.86		01/06/2025	1603
7440-43-9	Cadmium	2.2		01/06/2025	1603
7440-47-3	Chromium	5.6		01/06/2025	1603
7440-48-4	Cobalt	3.0		01/06/2025	1603
7440-50-8	Copper	210		01/06/2025	1603
7439-92-1	Lead	3700	D	01/06/2025	1801
7439-96-5	Manganese	3500		01/06/2025	1603
7440-02-0	Nickel	1.7		01/06/2025	1603
7782-49-2	Selenium	1.1	J	01/06/2025	1603
7440-22-4	Silver	13		01/06/2025	1603
7440-28-0	Thallium	0.13	J	01/06/2025	1603
7440-62-2	Vanadium	6.5		01/06/2025	1603
7440-66-6	Zinc	640		01/06/2025	1603

NOTE: Hardness (total) is reported in mg/L

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MH2D44

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-07

% Solids: 84.3 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	210		01/06/2025	1606
7440-38-2	Arsenic	1200	D	01/06/2025	1841
7440-39-3	Barium	91		01/06/2025	1606
7440-41-7	Beryllium	0.40	U	01/06/2025	1606
7440-43-9	Cadmium	3.8		01/06/2025	1606
7440-47-3	Chromium	0.62	J	01/06/2025	1606
7440-48-4	Cobalt	0.79		01/06/2025	1606
7440-50-8	Copper	3200		01/06/2025	1606
7439-92-1	Lead	21000	D	01/14/2025	1555
7439-96-5	Manganese	510		01/06/2025	1606
7440-02-0	Nickel	0.34	J	01/06/2025	1606
7782-49-2	Selenium	6.6		01/06/2025	1606
7440-22-4	Silver	68		01/06/2025	1606
7440-28-0	Thallium	0.45		01/06/2025	1606
7440-62-2	Vanadium	9.3		01/06/2025	1606
7440-66-6	Zinc	1200		01/06/2025	1606

NOTE: Hardness (total) is reported in mg/L

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MH2D47

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-08

% Solids: 88.3 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	89		01/06/2025	1609
7440-38-2	Arsenic	530	D	01/06/2025	1807
7440-39-3	Barium	44		01/06/2025	1609
7440-41-7	Beryllium	0.074	J	01/06/2025	1609
7440-43-9	Cadmium	37		01/06/2025	1609
7440-47-3	Chromium	1.3		01/06/2025	1609
7440-48-4	Cobalt	4.2		01/06/2025	1609
7440-50-8	Copper	2600		01/06/2025	1609
7439-92-1	Lead	18000	D	01/14/2025	1558
7439-96-5	Manganese	1400		01/06/2025	1609
7440-02-0	Nickel	1.2		01/06/2025	1609
7782-49-2	Selenium	5.2		01/06/2025	1609
7440-22-4	Silver	72		01/06/2025	1609
7440-28-0	Thallium	0.46		01/06/2025	1609
7440-62-2	Vanadium	8.6		01/06/2025	1609
7440-66-6	Zinc	7600	D	01/06/2025	1807

NOTE: Hardness (total) is reported in mg/L

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MH2D50

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-09

% Solids: 90 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	34		01/06/2025	1612
7440-38-2	Arsenic	100		01/06/2025	1612
7440-39-3	Barium	130		01/06/2025	1612
7440-41-7	Beryllium	0.18	J	01/06/2025	1612
7440-43-9	Cadmium	3.4		01/06/2025	1612
7440-47-3	Chromium	9.8		01/06/2025	1612
7440-48-4	Cobalt	4.2		01/06/2025	1612
7440-50-8	Copper	1700		01/06/2025	1612
7439-92-1	Lead	18000	D	01/06/2025	1915
7439-96-5	Manganese	890		01/06/2025	1612
7440-02-0	Nickel	6.6		01/06/2025	1612
7782-49-2	Selenium	4.9		01/06/2025	1612
7440-22-4	Silver	69		01/06/2025	1612
7440-28-0	Thallium	0.12	J	01/06/2025	1612
7440-62-2	Vanadium	13		01/06/2025	1612
7440-66-6	Zinc	890		01/06/2025	1612

NOTE: Hardness (total) is reported in mg/L

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MH2D53

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-10

% Solids: 93 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	5.9		01/06/2025	1615
7440-38-2	Arsenic	39		01/06/2025	1615
7440-39-3	Barium	110		01/06/2025	1615
7440-41-7	Beryllium	0.39	J	01/06/2025	1615
7440-43-9	Cadmium	10		01/06/2025	1615
7440-47-3	Chromium	5.6		01/06/2025	1615
7440-48-4	Cobalt	6.3		01/06/2025	1615
7440-50-8	Copper	310		01/06/2025	1615
7439-92-1	Lead	2200	D	01/06/2025	1813
7439-96-5	Manganese	1200		01/06/2025	1615
7440-02-0	Nickel	4.2		01/06/2025	1615
7782-49-2	Selenium	0.99	J	01/06/2025	1615
7440-22-4	Silver	11		01/06/2025	1615
7440-28-0	Thallium	0.15	J	01/06/2025	1615
7440-62-2	Vanadium	18		01/06/2025	1615
7440-66-6	Zinc	2500		01/06/2025	1615

NOTE: Hardness (total) is reported in mg/L

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MH2D56

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-11

% Solids: 73.8 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	350		01/06/2025	1618
7440-38-2	Arsenic	1600	D	01/06/2025	1851
7440-39-3	Barium	130		01/06/2025	1618
7440-41-7	Beryllium	0.19	J	01/06/2025	1618
7440-43-9	Cadmium	16		01/06/2025	1618
7440-47-3	Chromium	5.0		01/06/2025	1618
7440-48-4	Cobalt	2.5		01/06/2025	1618
7440-50-8	Copper	7100	D	01/06/2025	1816
7439-92-1	Lead	58000	D	01/14/2025	1611
7439-96-5	Manganese	1400		01/06/2025	1618
7440-02-0	Nickel	1.7		01/06/2025	1618
7782-49-2	Selenium	15		01/06/2025	1618
7440-22-4	Silver	80		01/06/2025	1618
7440-28-0	Thallium	0.29	J	01/06/2025	1618
7440-62-2	Vanadium	17		01/06/2025	1618
7440-66-6	Zinc	3900		01/06/2025	1618

NOTE: Hardness (total) is reported in mg/L

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MH2D59

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-12

% Solids: 85.6 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	5.8		01/06/2025	1621
7440-38-2	Arsenic	27		01/06/2025	1621
7440-39-3	Barium	71		01/06/2025	1621
7440-41-7	Beryllium	0.89		01/06/2025	1621
7440-43-9	Cadmium	3.4		01/06/2025	1621
7440-47-3	Chromium	4.2		01/06/2025	1621
7440-48-4	Cobalt	3.8		01/06/2025	1621
7440-50-8	Copper	280		01/06/2025	1621
7439-92-1	Lead	1700		01/06/2025	1621
7439-96-5	Manganese	1500		01/06/2025	1621
7440-02-0	Nickel	2.9		01/06/2025	1621
7782-49-2	Selenium	0.74	J	01/06/2025	1621
7440-22-4	Silver	8.6		01/06/2025	1621
7440-28-0	Thallium	0.10	J	01/06/2025	1621
7440-62-2	Vanadium	10		01/06/2025	1621
7440-66-6	Zinc	950		01/06/2025	1621

NOTE: Hardness (total) is reported in mg/L

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MH2D62

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-13

% Solids: 92.3 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	2.8		01/06/2025	1624
7440-38-2	Arsenic	19		01/06/2025	1624
7440-39-3	Barium	65		01/06/2025	1624
7440-41-7	Beryllium	0.28	J	01/06/2025	1624
7440-43-9	Cadmium	2.2		01/06/2025	1624
7440-47-3	Chromium	2.8		01/06/2025	1624
7440-48-4	Cobalt	2.4		01/06/2025	1624
7440-50-8	Copper	140		01/06/2025	1624
7439-92-1	Lead	810		01/06/2025	1624
7439-96-5	Manganese	650		01/06/2025	1624
7440-02-0	Nickel	2.1		01/06/2025	1624
7782-49-2	Selenium	0.41	J	01/06/2025	1624
7440-22-4	Silver	4.8		01/06/2025	1624
7440-28-0	Thallium	0.10	J	01/06/2025	1624
7440-62-2	Vanadium	7.2		01/06/2025	1624
7440-66-6	Zinc	630		01/06/2025	1624

NOTE: Hardness (total) is reported in mg/L

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MH2D65

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-14

% Solids: 89.3 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	4.4		01/06/2025	1627
7440-38-2	Arsenic	32		01/06/2025	1627
7440-39-3	Barium	66		01/06/2025	1627
7440-41-7	Beryllium	0.63		01/06/2025	1627
7440-43-9	Cadmium	15		01/06/2025	1627
7440-47-3	Chromium	6.4		01/06/2025	1627
7440-48-4	Cobalt	6.7		01/06/2025	1627
7440-50-8	Copper	240		01/06/2025	1627
7439-92-1	Lead	1900		01/06/2025	1627
7439-96-5	Manganese	12000	D	01/06/2025	1854
7440-02-0	Nickel	7.7		01/06/2025	1627
7782-49-2	Selenium	0.72	J	01/06/2025	1627
7440-22-4	Silver	12		01/06/2025	1627
7440-28-0	Thallium	0.21	J	01/06/2025	1627
7440-62-2	Vanadium	8.8		01/06/2025	1627
7440-66-6	Zinc	2700		01/06/2025	1627

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2D68

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-15

% Solids: 62.4 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	10		01/06/2025	1631
7440-38-2	Arsenic	31		01/06/2025	1631
7440-39-3	Barium	99		01/06/2025	1631
7440-41-7	Beryllium	4.8		01/06/2025	1631
7440-43-9	Cadmium	43		01/06/2025	1631
7440-47-3	Chromium	17		01/06/2025	1631
7440-48-4	Cobalt	25		01/06/2025	1631
7440-50-8	Copper	1000		01/06/2025	1631
7439-92-1	Lead	5300	D	01/06/2025	1857
7439-96-5	Manganese	11000	D	01/06/2025	1857
7440-02-0	Nickel	18		01/06/2025	1631
7782-49-2	Selenium	1.1	J	01/06/2025	1631
7440-22-4	Silver	15		01/06/2025	1631
7440-28-0	Thallium	0.24	J	01/06/2025	1631
7440-62-2	Vanadium	22		01/06/2025	1631
7440-66-6	Zinc	12000	D	01/06/2025	1857

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2D71

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-16

% Solids: 89.7 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	7.5		01/06/2025	1634
7440-38-2	Arsenic	75		01/06/2025	1634
7440-39-3	Barium	42		01/06/2025	1634
7440-41-7	Beryllium	0.38	J	01/06/2025	1634
7440-43-9	Cadmium	11		01/06/2025	1634
7440-47-3	Chromium	4.9		01/06/2025	1634
7440-48-4	Cobalt	6.7		01/06/2025	1634
7440-50-8	Copper	440		01/06/2025	1634
7439-92-1	Lead	2200		01/06/2025	1634
7439-96-5	Manganese	2700		01/06/2025	1634
7440-02-0	Nickel	5.4		01/06/2025	1634
7782-49-2	Selenium	1.7	J	01/06/2025	1634
7440-22-4	Silver	20		01/06/2025	1634
7440-28-0	Thallium	0.19	J	01/06/2025	1634
7440-62-2	Vanadium	6.4		01/06/2025	1634
7440-66-6	Zinc	2900		01/06/2025	1634

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MH2D74

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51811 MA No. : SDG No.: MH2D26

Matrix: SOIL Lab Sample ID: P5388-17

% Solids: 89.9 Date Received: 12/27/2024

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	7.4		01/06/2025	1637
7440-38-2	Arsenic	69		01/06/2025	1637
7440-39-3	Barium	41		01/06/2025	1637
7440-41-7	Beryllium	0.73		01/06/2025	1637
7440-43-9	Cadmium	8.2		01/06/2025	1637
7440-47-3	Chromium	3.9		01/06/2025	1637
7440-48-4	Cobalt	4.4		01/06/2025	1637
7440-50-8	Copper	350		01/06/2025	1637
7439-92-1	Lead	2200		01/06/2025	1637
7439-96-5	Manganese	2500		01/06/2025	1637
7440-02-0	Nickel	3.7		01/06/2025	1637
7782-49-2	Selenium	1.3	J	01/06/2025	1637
7440-22-4	Silver	20		01/06/2025	1637
7440-28-0	Thallium	0.19	J	01/06/2025	1637
7440-62-2	Vanadium	5.8		01/06/2025	1637
7440-66-6	Zinc	2100		01/06/2025	1637

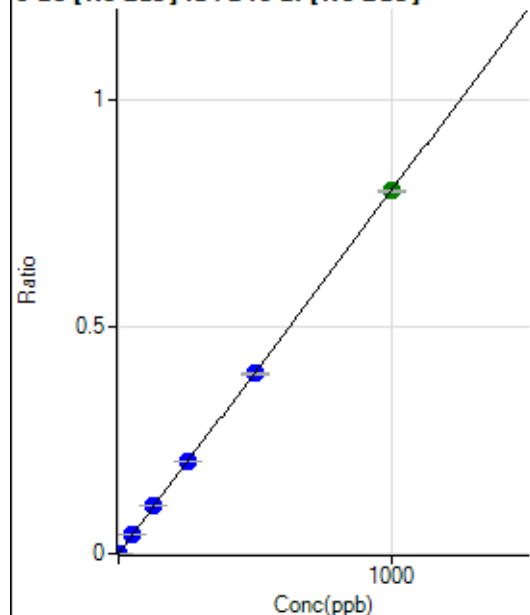
NOTE: Hardness (total) is reported in mg/L

Comments:

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7010625MS-2.b\
Analysis File: P7010625MS-2.batch.bin
DA Date-Time: 2025-01-07 09:32:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-06 13:15:48
2	005CALS.d	S02	2025-01-06 13:19:03
3	007CALS.d	S03	2025-01-06 13:25:33
4	008CALS.d	S04	2025-01-06 13:28:35
5	009CALS.d	S05	2025-01-06 13:31:26
6	010CALS.d	S06	2025-01-06 13:34:14
7	011CALS.d	S07	2025-01-06 13:36:58
8	012CALS.d	S08	2025-01-06 13:39:44

9 Be [No Gas] ISTD:6 Li [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	46.67	0.0000	P	16.4
2	☐	1.000	1.228	1512.31	0.0010	P	8.2
3	☐	50.000	53.242	66067.36	0.0427	P	0.9
4	☐	125.000	131.178	167791.63	0.1051	P	1.7
5	☐	250.000	255.886	332799.06	0.2049	P	0.6
6	☐	500.000	497.001	643673.71	0.3980	P	1.0
7	☐	1000.000	999.093	1286716.94	0.8001	A	0.5
8	☐			288.89	0.0002	P	7.4

$$y = 8.0078E-004 * x + 3.1968E-005$$

$$R = 1.0000$$

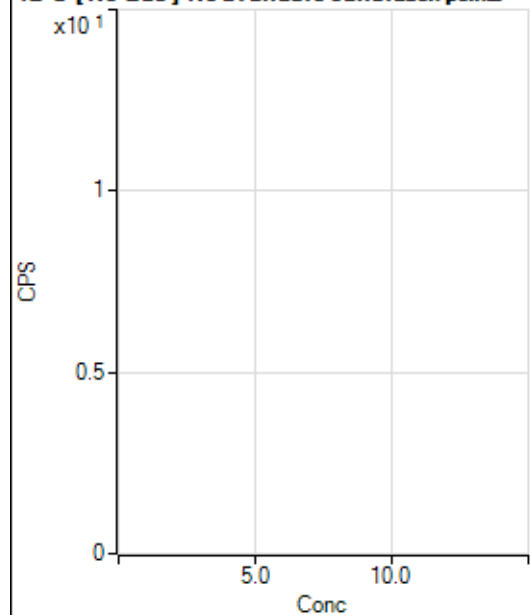
$$DL = 0.01967$$

$$BEC = 0.03992$$

Weight: <None>

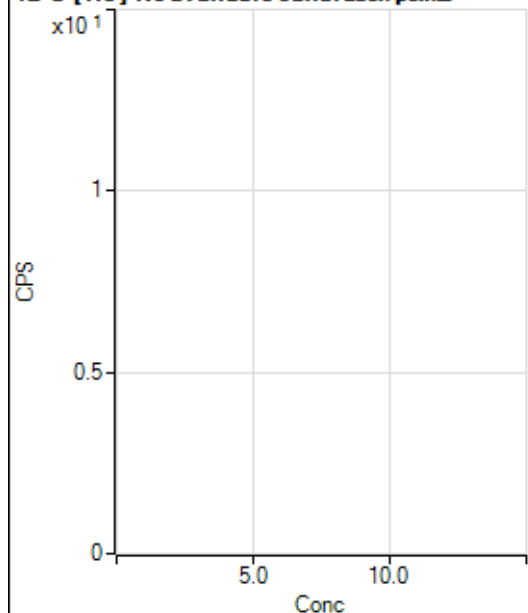
Min Conc: 0

12 C [No Gas] No available calibration points



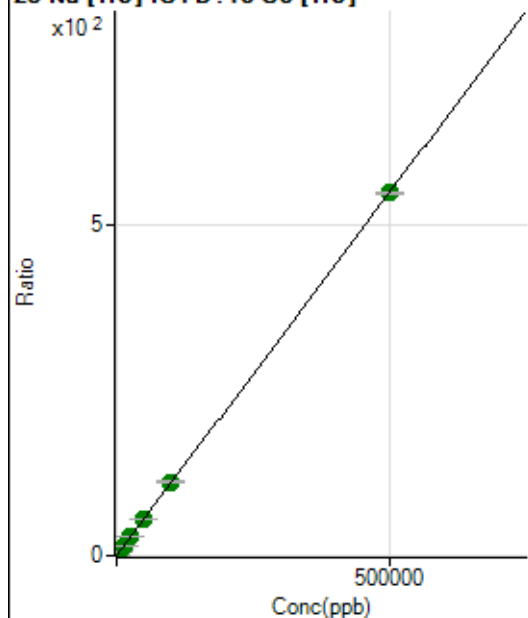
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

23 Na [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22790.26	0.0376	P	1.1
2	☐	500.000	501.269	355487.29	0.5864	P	0.7
3	☐	5000.000	5081.432	3241270.65	5.6008	A	0.3
4	☐	12500.000	12650.755	7551599.96	13.8879	A	0.4
5	☐	25000.000	25377.763	14329896.04	27.8217	A	0.7
6	☐	50000.000	50467.395	27071141.54	55.2905	A	0.5
7	☐	100000.00	101600.68	54519125.30	111.2724	A	0.8
8	☐	500000.00	499609.65	285106755.7	547.0222	A	0.8

$$y = 0.0011 * x + 0.0376$$

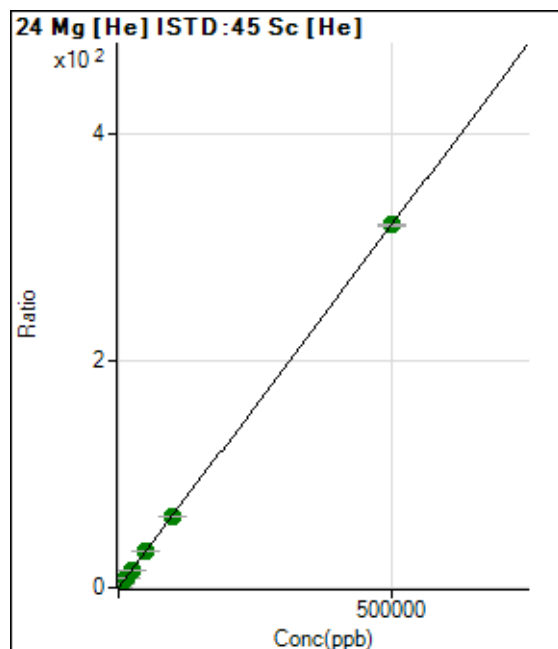
$$R = 1.0000$$

$$DL = 1.172$$

$$BEC = 34.31$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	474.46	0.0008	P	3.9
2	☐	500.000	541.170	210554.44	0.3473	P	0.8
3	☐	5000.000	5041.380	1868606.03	3.2289	A	0.8
4	☐	12500.000	12434.797	4329863.16	7.9630	A	0.4
5	☐	25000.000	24944.912	8227330.30	15.9735	A	0.5
6	☐	50000.000	49645.282	15564722.96	31.7896	A	0.5
7	☐	100000.00	99202.587	31124098.42	63.5220	A	0.1
8	☐	500000.00	500198.88	166933818.6	320.2874	A	0.6

$$y = 6.4032E-004 * x + 7.8213E-004$$

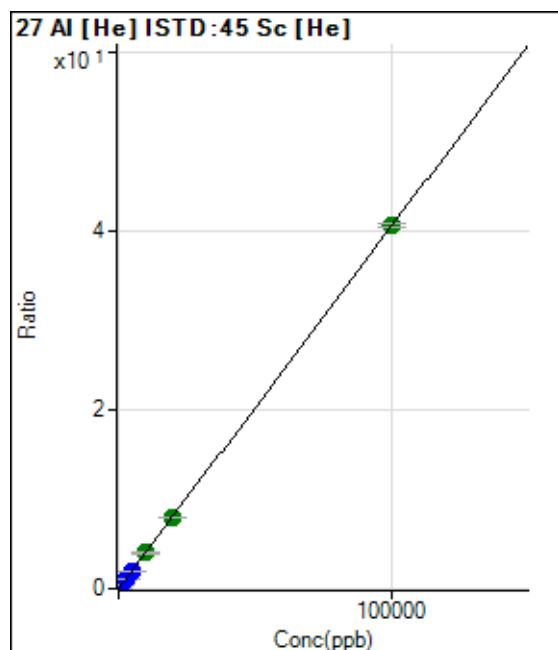
R = 1.0000

DL = 0.1435

BEC = 1.221

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0002	P	31.1
2	☐	20.000	19.835	5005.31	0.0083	P	2.1
3	☐	1000.000	978.350	229718.03	0.3969	P	0.5
4	☐	2500.000	2426.221	535092.60	0.9841	P	0.4
5	☐	5000.000	4856.611	1014488.86	1.9696	P	0.3
6	☐	10000.000	9839.536	1953710.89	3.9903	A	0.5
7	☐	20000.000	19511.125	3876704.11	7.9123	A	0.6
8	☐	100000.00	100123.05	21161341.07	40.6016	A	1.0

$$y = 4.0551E-004 * x + 2.1258E-004$$

R = 1.0000

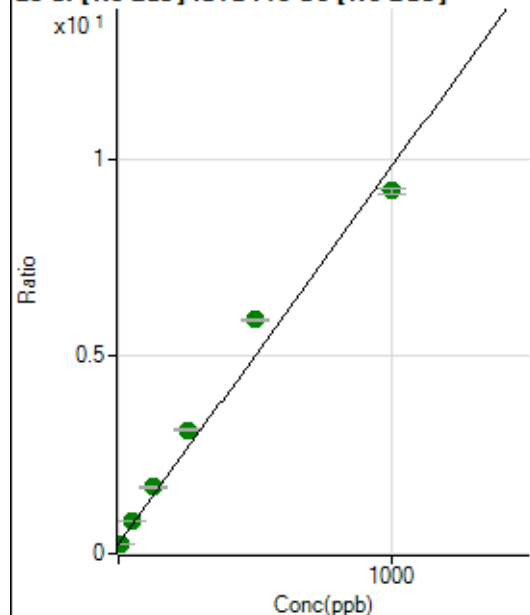
DL = 0.4889

BEC = 0.5242

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1664055.79	0.2483	A	1.2
2	☐	10.000	0.116	1671154.77	0.2495	A	0.3
3	☐	50.000	59.534	5483464.85	0.8168	A	0.2
4	☐	125.000	150.369	10860420.19	1.6840	A	0.9
5	☐	250.000	301.513	19353166.52	3.1271	A	1.0
6	☐	500.000	594.264	34979055.59	5.9221	A	1.4
7	☐	1000.000	936.441	53423231.98	9.1891	A	1.4
8	☐			1309128.99	0.2150	A	4.1

$$y = 0.0095 * x + 0.2483$$

R = 0.9909

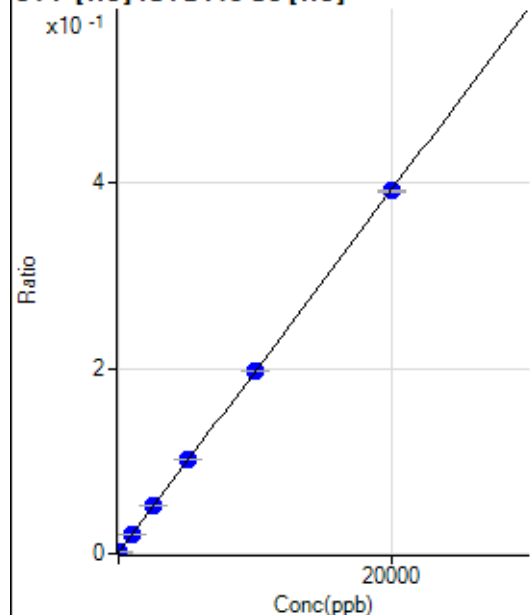
DL = 0.9541

BEC = 26.01

Weight: <None>

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-15.640	431.12	0.0007	P	8.1
2	☐	0.000	15.640	802.25	0.0013	P	1.8
3	☐	1000.000	1042.760	12407.34	0.0214	P	2.2
4	☐	2500.000	2589.681	28129.24	0.0517	P	1.1
5	☐	5000.000	5159.722	52570.91	0.1021	P	1.0
6	☐	10000.000	9993.956	96328.06	0.1967	P	0.5
7	☐	20000.000	19949.743	191928.77	0.3917	P	0.4
8	☐			490.01	0.0009	P	2.9

$$y = 1.9584E-005 * x + 0.0010$$

R = 1.0000

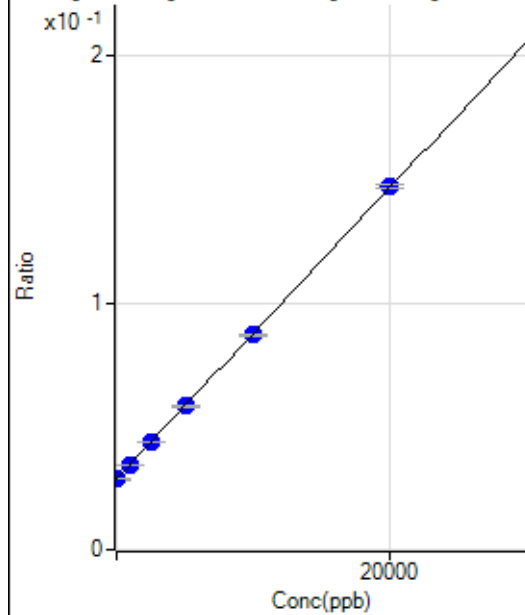
DL = 6.263

BEC = 51.93

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-43.649	190865.53	0.0285	P	1.7
2	☐	0.000	43.649	194272.34	0.0290	P	1.0
3	☐	1000.000	952.017	230646.25	0.0344	P	0.1
4	☐	2500.000	2490.545	280044.64	0.0434	P	0.5
5	☐	5000.000	5014.146	360781.75	0.0583	P	0.9
6	☐	10000.000	9887.647	514001.97	0.0870	P	1.1
7	☐	20000.000	20056.221	854365.25	0.1470	P	1.0
8	☐			157222.27	0.0258	P	2.5

$$y = 5.8938E-006 * x + 0.0287$$

R = 1.0000

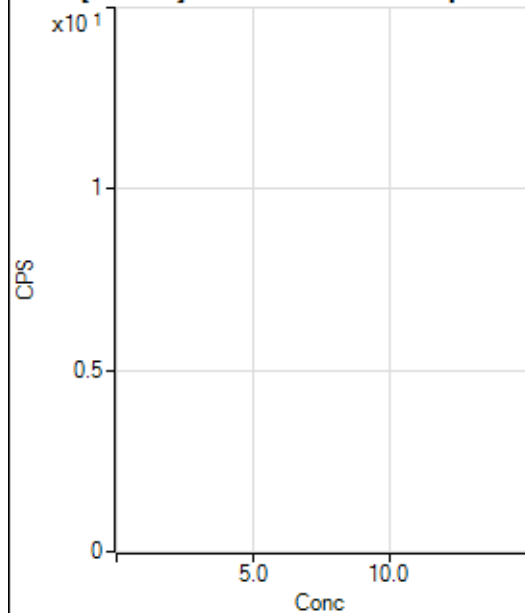
DL = 194.9

BEC = 4877

Weight: <None>

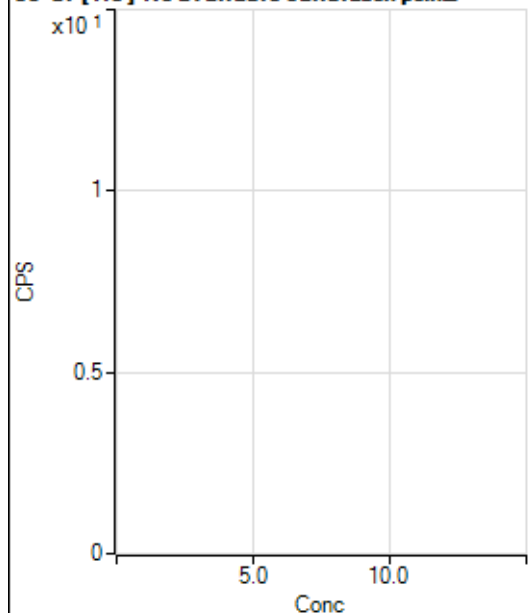
Min Conc: 0

35 Cl [No Gas] No available calibration points



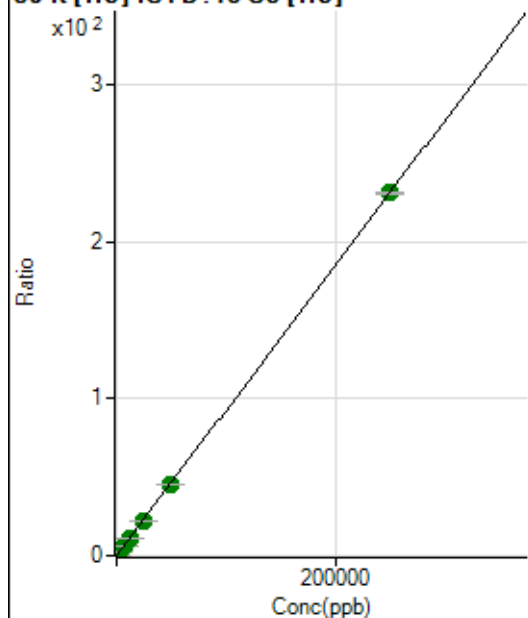
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

39 K [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	60023.18	0.0989	P	0.6
2	☐	500.000	536.411	360445.59	0.5945	P	0.5
3	☐	2500.000	2516.030	1402553.99	2.4236	A	0.4
4	☐	6250.000	6152.774	3144827.94	5.7837	A	0.7
5	☐	12500.000	12263.866	5887125.89	11.4299	A	0.2
6	☐	25000.000	24340.945	11059554.28	22.5883	A	0.3
7	☐	50000.000	48677.835	22084902.17	45.0739	A	0.4
8	☐	250000.00	250344.34	120607013.7	231.3999	A	0.4

$$y = 9.2393E-004 * x + 0.0989$$

$$R = 1.0000$$

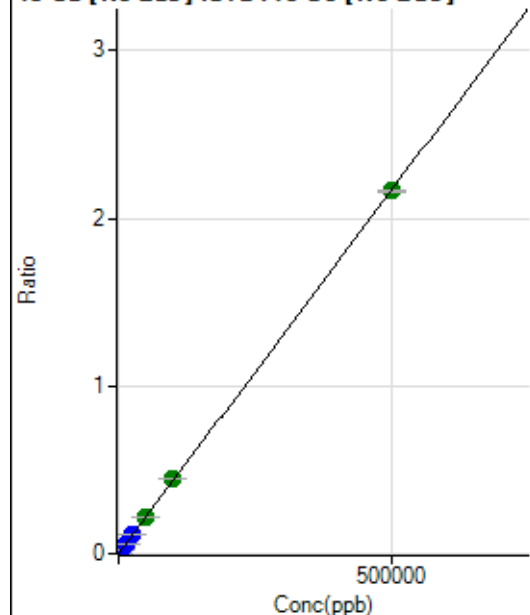
$$DL = 1.992$$

$$BEC = 107.1$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	524.46	0.0001	P	10.4
2	☐	500.000	562.648	16868.38	0.0025	P	1.6
3	☐	5000.000	5338.127	155913.86	0.0232	P	1.3
4	☐	12500.000	13402.413	375272.54	0.0582	P	1.5
5	☐	25000.000	26829.819	720423.31	0.1164	P	1.6
6	☐	50000.000	51314.866	1314774.28	0.2226	A	0.4
7	☐	100000.00	103310.49	2604986.26	0.4480	A	0.5
8	☐	500000.00	499088.91	13175815.50	2.1642	A	0.9

$$y = 4.3361E-006 * x + 7.8200E-005$$

R = 1.0000

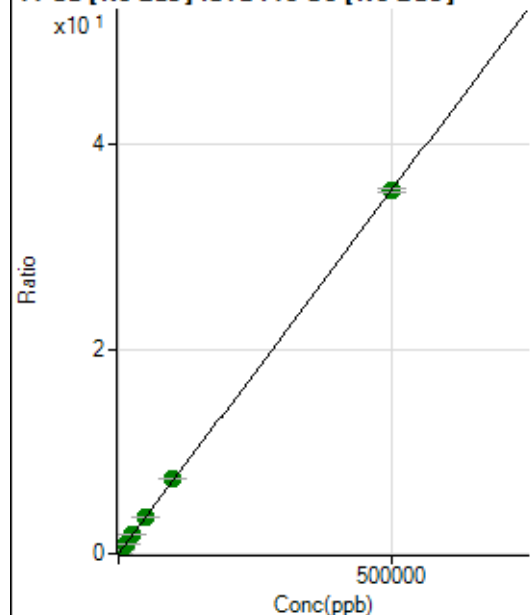
DL = 5.625

BEC = 18.03

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11287.61	0.0017	P	3.3
2	☐	500.000	556.439	275953.91	0.0412	P	0.6
3	☐	5000.000	5067.629	2426878.78	0.3615	A	0.9
4	☐	12500.000	12723.714	5837126.44	0.9051	A	1.0
5	☐	25000.000	25531.539	11229573.72	1.8145	A	0.2
6	☐	50000.000	51137.512	21456454.12	3.6325	A	0.8
7	☐	100000.00	102907.25	42490912.42	7.3083	A	0.6
8	☐	500000.00	499271.89	215833263.4	35.4508	A	1.0

$$y = 7.1002E-005 * x + 0.0017$$

R = 1.0000

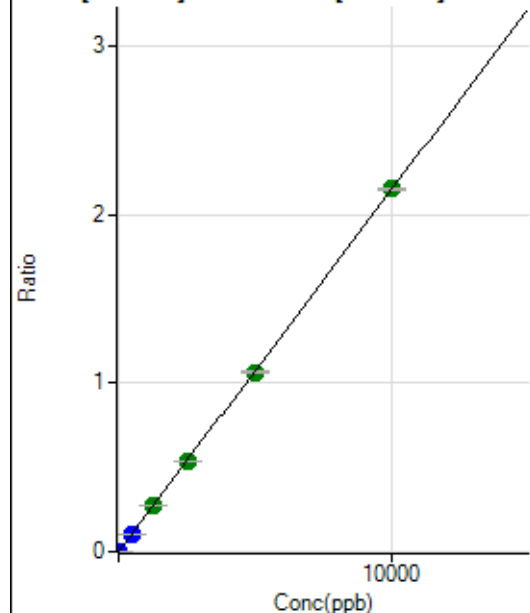
DL = 2.362

BEC = 23.73

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD : 45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.44	0.0000	P	32.5
2	☐	5.000	5.265	7679.79	0.0011	P	2.6
3	☐	500.000	495.316	715331.40	0.1066	P	1.1
4	☐	1250.000	1261.198	1749709.17	0.2713	A	0.1
5	☐	2500.000	2484.560	3307472.31	0.5344	A	0.5
6	☐	5000.000	4958.130	6299569.77	1.0665	A	1.2
7	☐	10000.000	10023.629	12535350.23	2.1560	A	0.7
8	☐			1685.67	0.0003	P	4.7

$$y = 2.1509E-004 * x + 1.4074E-005$$

R = 1.0000

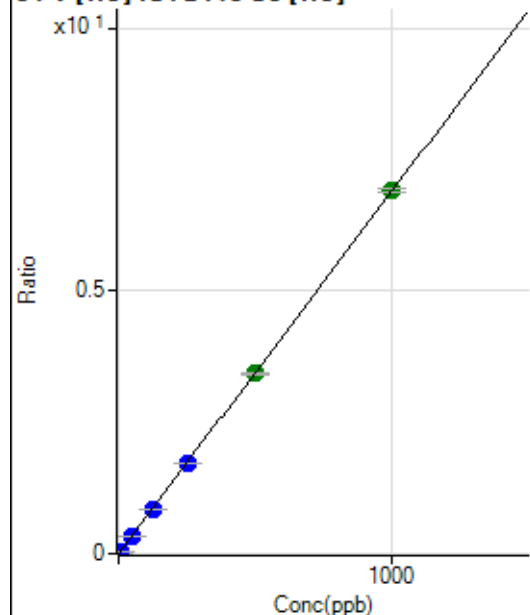
DL = 0.06381

BEC = 0.06543

Weight: <None>

Min Conc: 0

51 V [He] ISTD : 45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	25.4
2	☐	5.000	5.243	21893.76	0.0361	P	1.2
3	☐	50.000	50.004	199196.94	0.3442	P	0.3
4	☐	125.000	124.165	464725.39	0.8547	P	0.3
5	☐	250.000	247.797	878515.65	1.7056	P	0.5
6	☐	500.000	496.799	1674265.06	3.4196	A	0.8
7	☐	1000.000	1002.254	3380045.43	6.8987	A	1.2
8	☐			793.37	0.0015	P	7.2

$$y = 0.0069 * x + 2.1991E-005$$

R = 1.0000

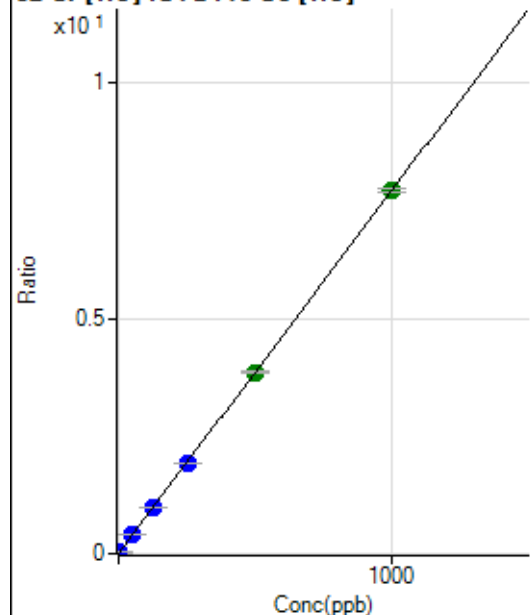
DL = 0.00243

BEC = 0.003195

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3271.50	0.0054	P	3.4
2	☐	2.000	2.094	13037.95	0.0215	P	1.8
3	☐	50.000	50.412	227634.85	0.3933	P	0.5
4	☐	125.000	125.642	528669.29	0.9723	P	0.8
5	☐	250.000	250.137	994258.28	1.9304	P	0.6
6	☐	500.000	499.701	1885472.40	3.8509	A	0.4
7	☐	1000.000	1000.014	3773288.73	7.7012	A	0.9
8	☐			8773.85	0.0168	P	9.7

$$y = 0.0077 * x + 0.0054$$

$$R = 1.0000$$

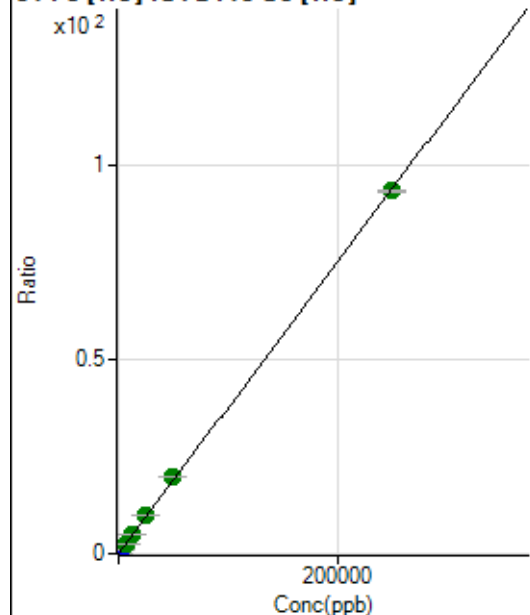
$$DL = 0.07129$$

$$BEC = 0.7008$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3093.69	0.0051	P	1.4
2	☐	50.000	58.671	16430.18	0.0271	P	2.1
3	☐	2500.000	2743.953	598430.77	1.0341	P	0.2
4	☐	6250.000	6652.082	1359206.37	2.4996	A	0.4
5	☐	12500.000	13418.686	2594445.26	5.0371	A	0.2
6	☐	25000.000	26856.598	4933535.28	10.0763	A	0.3
7	☐	50000.000	52868.618	9716532.77	19.8309	A	0.4
8	☐	250000.00	249182.18	48706115.94	93.4486	A	0.4

$$y = 3.7500E-004 * x + 0.0051$$

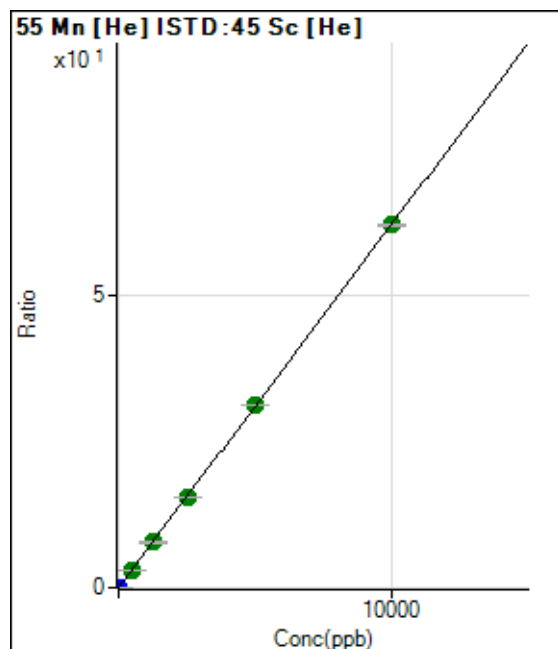
$$R = 0.9999$$

$$DL = 0.5715$$

$$BEC = 13.6$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	394.45	0.0007	P	5.1
2	☐	1.000	1.032	4268.43	0.0070	P	3.1
3	☐	500.000	500.361	1793225.56	3.0987	A	0.6
4	☐	1250.000	1245.605	4193864.52	7.7130	A	1.0
5	☐	2500.000	2500.832	7975638.35	15.4849	A	0.4
6	☐	5000.000	5019.120	15215918.24	31.0773	A	0.2
7	☐	10000.000	9990.763	30310094.83	61.8599	A	0.8
8	☐			15551.45	0.0298	P	0.8

$$y = 0.0062 * x + 6.5027E-004$$

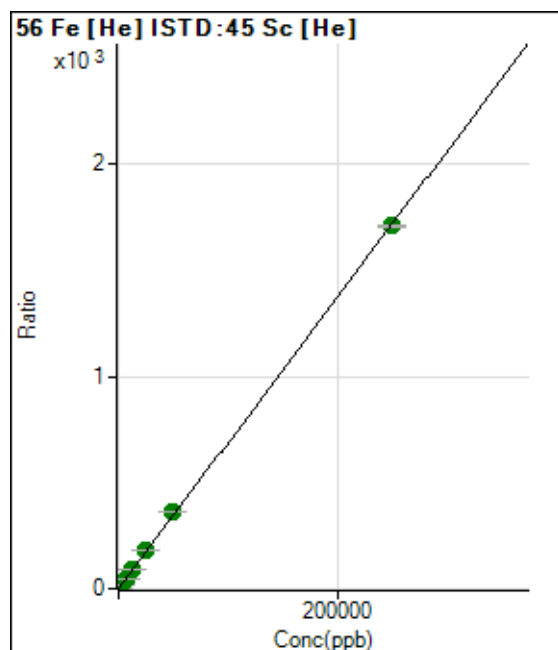
$$R = 1.0000$$

$$DL = 0.0161$$

$$BEC = 0.105$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25084.29	0.0413	P	1.0
2	☐	50.000	56.782	261096.98	0.4307	P	0.3
3	☐	2500.000	2642.208	10507797.07	18.1573	A	0.4
4	☐	6250.000	6551.634	24448049.92	44.9619	A	0.5
5	☐	12500.000	13225.935	46727907.08	90.7235	A	0.4
6	☐	25000.000	26391.027	88614538.68	180.9884	A	0.2
7	☐	50000.000	52589.354	176689935.1	360.6142	A	0.2
8	☐	250000.00	249297.76	890918484.5	1,709.322	A	0.3

$$y = 0.0069 * x + 0.0413$$

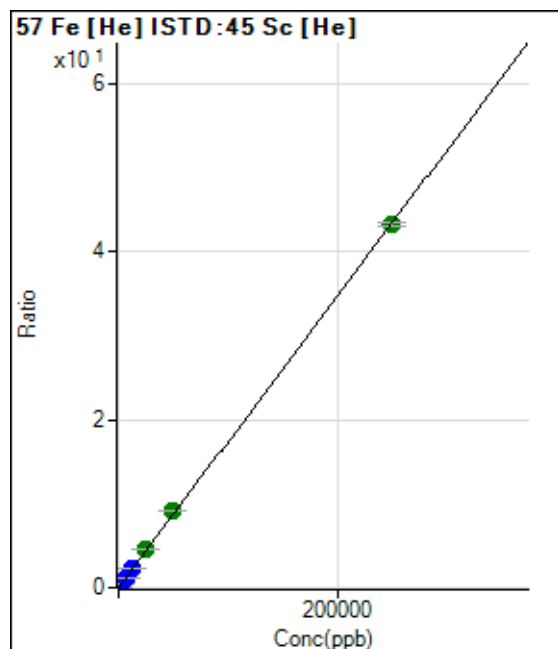
$$R = 0.9999$$

$$DL = 0.1804$$

$$BEC = 6.031$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1830.13	0.0030	P	2.5
2	☐	50.000	59.769	8098.92	0.0134	P	1.3
3	☐	2500.000	2721.561	274276.29	0.4739	P	1.0
4	☐	6250.000	6778.252	639380.04	1.1759	P	0.6
5	☐	12500.000	13537.689	1208061.13	2.3455	P	0.3
6	☐	25000.000	26443.872	2241789.86	4.5787	A	0.7
7	☐	50000.000	52462.960	4449344.03	9.0808	A	0.3
8	☐	250000.00	249295.71	22483804.39	43.1392	A	0.9

$$y = 1.7303E-004 * x + 0.0030$$

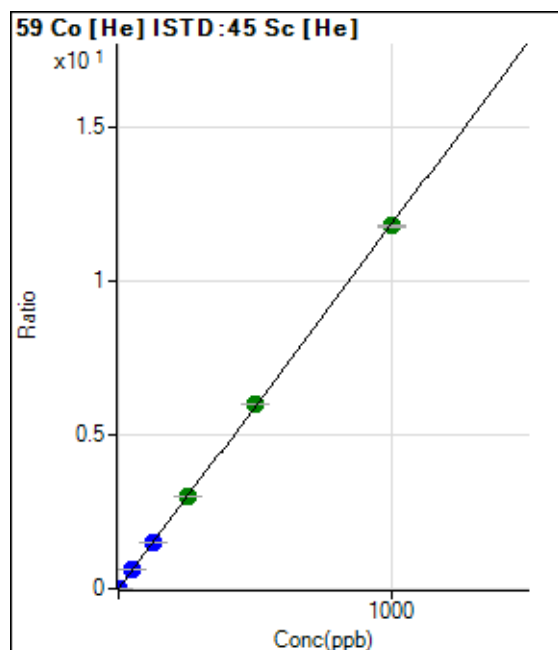
R = 0.9999

DL = 1.291

BEC = 17.43

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	235.56	0.0004	P	10.7
2	☐	1.000	1.105	8178.97	0.0135	P	2.0
3	☐	50.000	50.895	349565.08	0.6041	P	0.7
4	☐	125.000	126.226	814280.83	1.4975	P	0.6
5	☐	250.000	253.154	1546733.00	3.0030	A	1.5
6	☐	500.000	507.054	2944806.66	6.0145	A	0.8
7	☐	1000.000	995.487	5785605.96	11.8078	A	0.8
8	☐			17460.26	0.0335	P	1.6

$$y = 0.0119 * x + 3.8820E-004$$

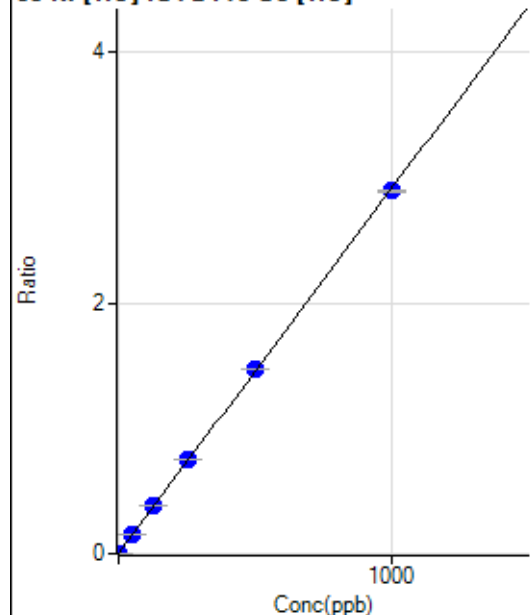
R = 1.0000

DL = 0.01052

BEC = 0.03273

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD: 45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1013.38	0.0017	P	2.3
2	☐	1.000	1.081	2918.09	0.0048	P	1.8
3	☐	50.000	52.326	89020.80	0.1538	P	0.2
4	☐	125.000	130.712	207584.50	0.3818	P	0.1
5	☐	250.000	257.225	386108.76	0.7496	P	0.8
6	☐	500.000	506.698	722211.80	1.4751	P	0.2
7	☐	1000.000	994.015	1417021.70	2.8921	P	0.5
8	☐			8106.71	0.0156	P	2.3

$$y = 0.0029 * x + 0.0017$$

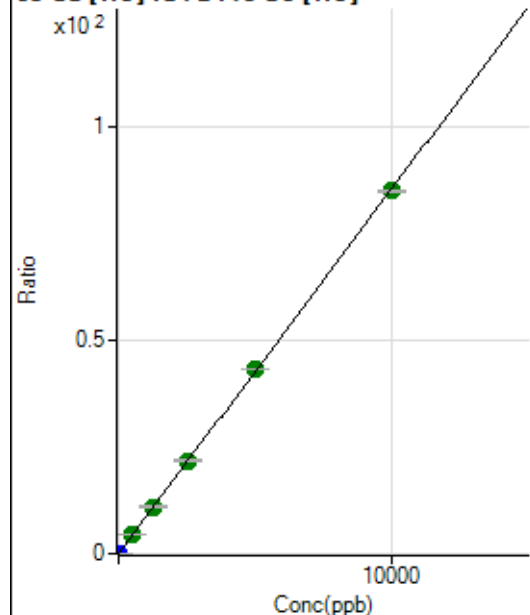
$$R = 0.9999$$

$$DL = 0.04041$$

$$BEC = 0.5744$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD: 45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2912.54	0.0048	P	3.6
2	☐	2.000	2.046	13520.63	0.0223	P	0.7
3	☐	500.000	521.554	2584002.38	4.4651	A	0.7
4	☐	1250.000	1286.747	5986102.20	11.0090	A	1.2
5	☐	2500.000	2557.103	11265864.42	21.8731	A	1.1
6	☐	5000.000	5052.872	21159676.21	43.2168	A	0.4
7	☐	10000.000	9953.617	41709553.83	85.1279	A	0.5
8	☐			11630.14	0.0223	P	1.1

$$y = 0.0086 * x + 0.0048$$

$$R = 1.0000$$

$$DL = 0.05984$$

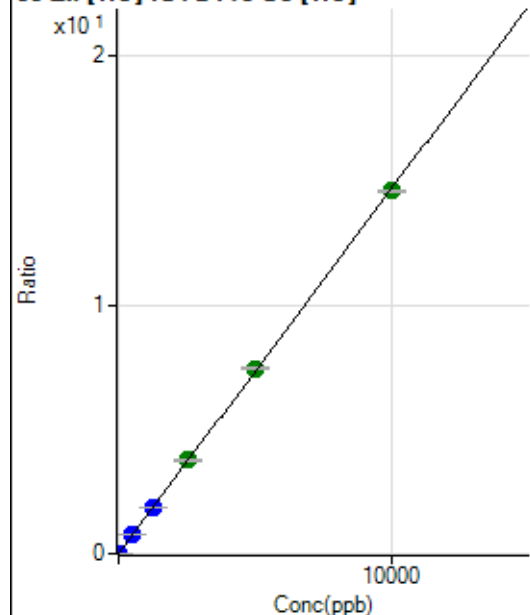
$$BEC = 0.5614$$

Weight: <None>

Min Conc: 0

Calibration for 005CALS.d

66 Zn [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	205.56	0.0003	P	2.7
2	☐	5.000	5.301	4916.41	0.0081	P	3.7
3	☐	500.000	506.720	430074.28	0.7432	P	0.4
4	☐	1250.000	1269.031	1011693.96	1.8606	P	0.9
5	☐	2500.000	2560.438	1933410.86	3.7538	A	1.1
6	☐	5000.000	5078.512	3645217.83	7.4451	A	0.5
7	☐	10000.000	9942.919	7141643.99	14.5759	A	0.7
8	☐			10574.95	0.0203	P	3.5

$$y = 0.0015 * x + 3.3884E-004$$

$$R = 0.9999$$

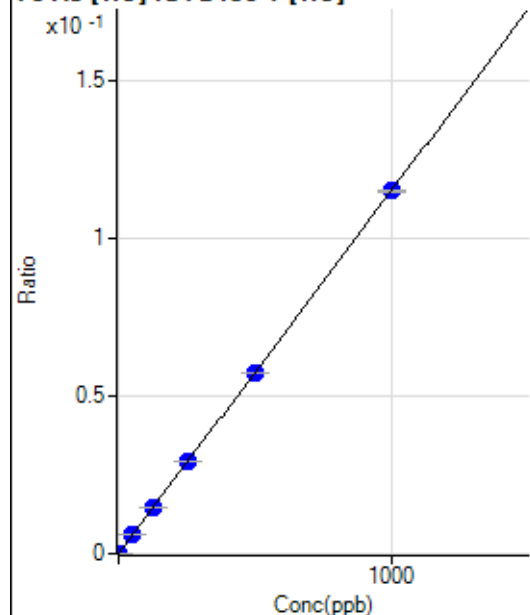
$$DL = 0.01869$$

$$BEC = 0.2311$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	76.2
2	☐	1.000	1.256	762.25	0.0001	P	8.3
3	☐	50.000	52.115	30328.76	0.0060	P	1.7
4	☐	125.000	128.182	71480.85	0.0147	P	0.3
5	☐	250.000	255.440	136185.10	0.0294	P	0.8
6	☐	500.000	498.023	256835.95	0.0572	P	0.7
7	☐	1000.000	999.125	512569.51	0.1148	P	0.8
8	☐			350.01	0.0001	P	4.5

$$y = 1.1494E-004 * x + 2.1320E-006$$

$$R = 1.0000$$

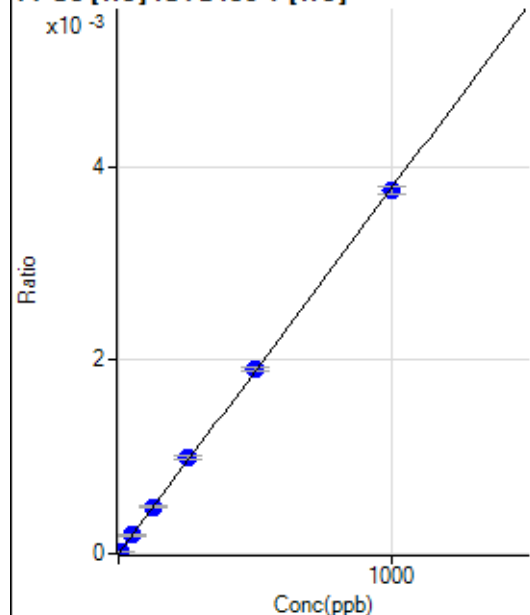
$$DL = 0.04238$$

$$BEC = 0.01855$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.592	110.00	0.0000	P	7.1
3	☐	50.000	51.675	987.82	0.0002	P	10.6
4	☐	125.000	128.592	2355.77	0.0005	P	5.4
5	☐	250.000	263.016	4607.43	0.0010	P	4.3
6	☐	500.000	506.457	8582.55	0.0019	P	2.2
7	☐	1000.000	992.982	16737.33	0.0038	P	2.2
8	☐			2.22	0.0000	P	86.6

$$y = 3.7768\text{E-}006 * x + 0.0000\text{E+}000$$

R = 0.9999

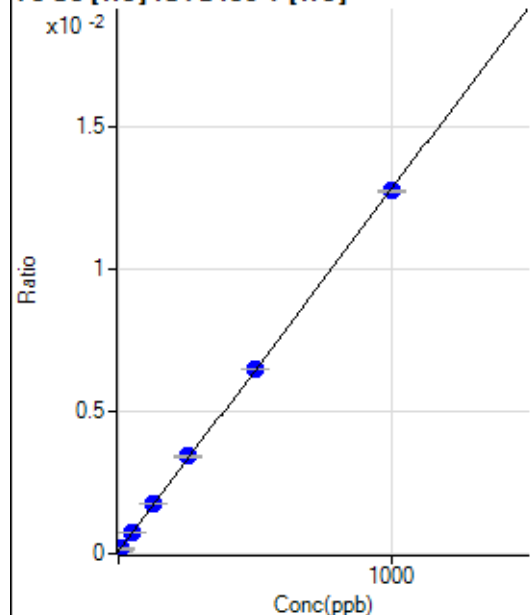
DL = 0

BEC = 0

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	455.57	0.0001	P	6.1
2	☐	5.000	6.784	902.26	0.0002	P	7.0
3	☐	50.000	53.226	3867.21	0.0008	P	3.2
4	☐	125.000	130.904	8498.04	0.0018	P	1.0
5	☐	250.000	261.806	15847.48	0.0034	P	1.9
6	☐	500.000	502.643	29071.87	0.0065	P	0.6
7	☐	1000.000	994.819	56859.72	0.0127	P	0.4
8	☐			373.34	0.0001	P	5.8

$$y = 1.2718\text{E-}005 * x + 8.7035\text{E-}005$$

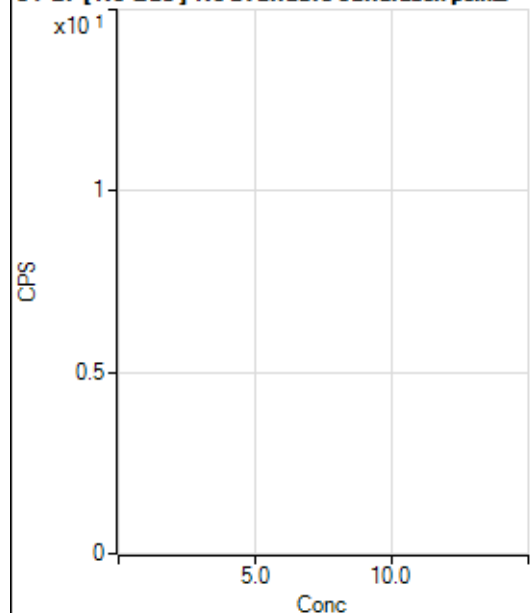
R = 0.9999

DL = 1.26

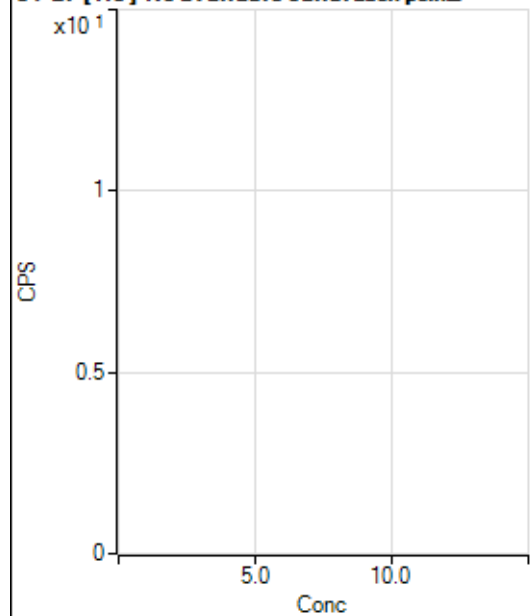
BEC = 6.843

Weight: <None>

Min Conc: 0

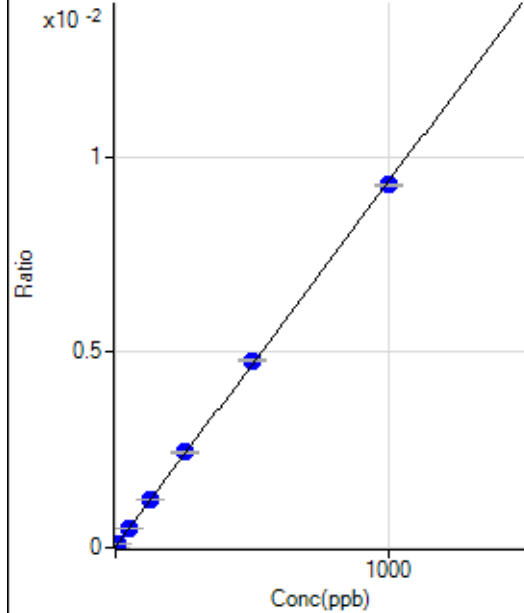
81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15766.33		P	1.2
2	☐			16095.52		P	0.8
3	☐			15285.79		P	0.5
4	☐			14028.99		P	2.2
5	☐			13809.91		P	1.5
6	☐			12866.83		P	3.5
7	☐			12543.20		P	1.6
8	☐			12308.56		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			167.78		P	17.4
2	☐			153.34		P	13.2
3	☐			140.00		P	9.5
4	☐			94.45		P	4.1
5	☐			140.00		P	12.6
6	☐			117.78		P	17.1
7	☐			88.89		P	19.2
8	☐			126.67		P	37.3

82 Se [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	388.16	0.0000	P	8.6
2	☐	5.000	5.739	1343.42	0.0001	P	2.1
3	☐	50.000	52.244	9069.62	0.0005	P	0.9
4	☐	125.000	130.543	21569.62	0.0012	P	0.6
5	☐	250.000	259.153	41398.59	0.0024	P	1.1
6	☐	500.000	511.169	78394.72	0.0048	P	0.9
7	☐	1000.000	991.319	150521.67	0.0093	P	0.3
8	☐			485.37	0.0000	P	7.3

$$y = 9.3503E-006 * x + 2.1739E-005$$

R = 0.9999

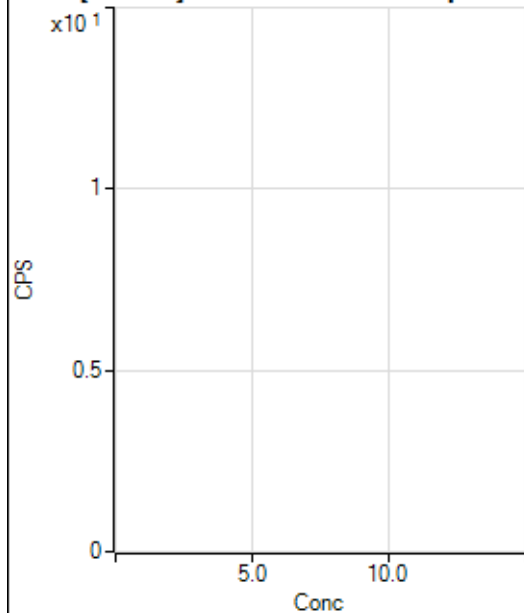
DL = 0.6015

BEC = 2.325

Weight: <None>

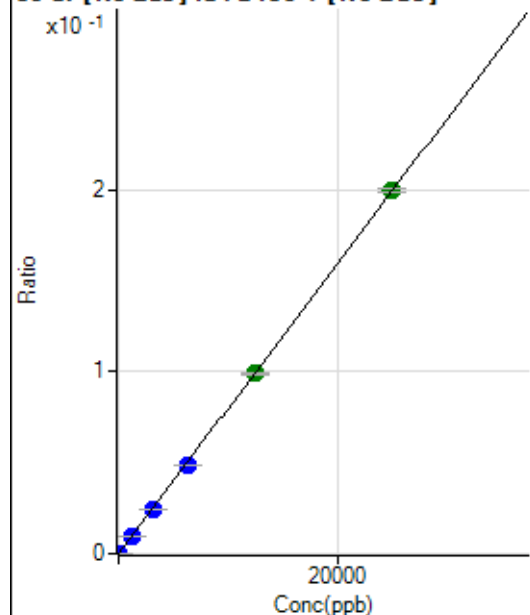
Min Conc: 0

83 Kr [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			215.56		P	20.2
2	☐			223.34		P	10.3
3	☐			196.67		P	3.4
4	☐			172.23		P	9.5
5	☐			165.56		P	5.1
6	☐			213.34		P	16.3
7	☐			175.56		P	12.6
8	☐			475.57		P	28.9

86 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326.68	0.0000	P	10.3
2	☐	1.000	26.194	4033.92	0.0002	P	1.7
3	☐	1250.000	1225.236	173382.64	0.0098	P	0.5
4	☐	3125.000	3057.580	422112.11	0.0243	P	0.9
5	☐	6250.000	6091.769	819933.00	0.0484	P	0.9
6	☐	12500.000	12440.001	1614286.68	0.0989	A	1.0
7	☐	25000.000	25079.222	3228879.88	0.1993	A	1.0
8	☐			9823.37	0.0006	P	2.0

$$y = 7.9461\text{E-}006 * x + 1.8267\text{E-}005$$

$$R = 1.0000$$

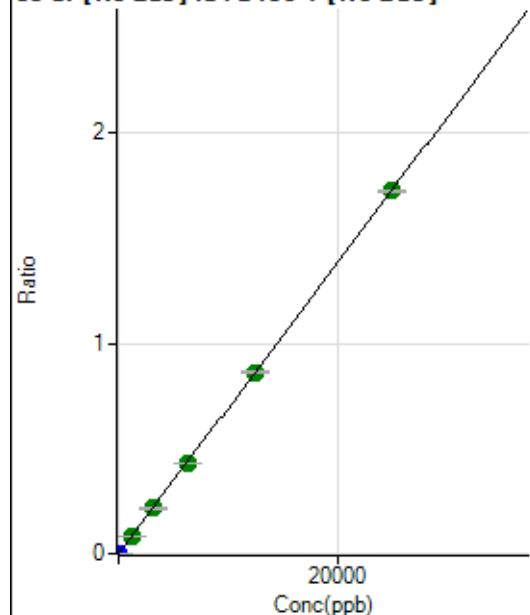
$$DL = 0.7084$$

$$BEC = 2.299$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.01	0.0000	P	3.5
2	☐	1.000	26.265	32488.12	0.0018	P	1.8
3	☐	1250.000	1235.748	1517610.67	0.0854	A	0.3
4	☐	3125.000	3118.309	3740014.15	0.2154	A	0.8
5	☐	6250.000	6244.828	7304891.70	0.4314	A	0.9
6	☐	12500.000	12513.604	14114909.79	0.8645	A	0.5
7	☐	25000.000	24996.039	27975041.25	1.7268	A	0.5
8	☐			80425.97	0.0051	P	1.1

$$y = 6.9081\text{E-}005 * x + 8.9550\text{E-}006$$

$$R = 1.0000$$

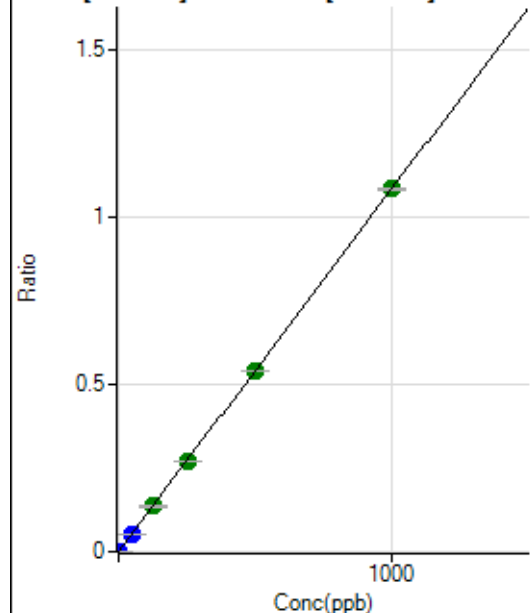
$$DL = 0.01356$$

$$BEC = 0.1296$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	926.70	0.0001	P	1.2
2	☐	1.000	1.006	20329.69	0.0011	P	0.6
3	☐	50.000	49.296	949990.58	0.0534	P	0.7
4	☐	125.000	125.126	2353742.57	0.1356	A	1.0
5	☐	250.000	248.242	4553616.01	0.2689	A	0.7
6	☐	500.000	498.747	8820964.73	0.5402	A	1.0
7	☐	1000.000	1001.085	17566641.82	1.0843	A	0.6
8	☐			10603.93	0.0007	P	1.5

$$y = 0.0011 * x + 5.1858E-005$$

$$R = 1.0000$$

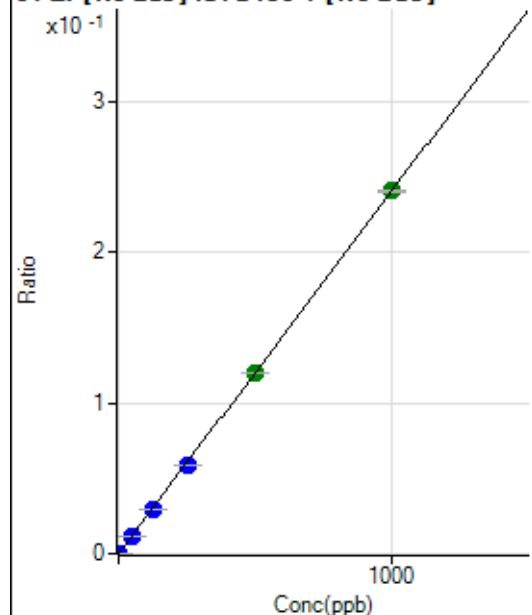
$$DL = 0.001739$$

$$BEC = 0.04788$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.22	0.0000	P	32.1
2	☐	1.000	1.030	4524.07	0.0003	P	2.6
3	☐	50.000	49.278	210705.22	0.0119	P	0.4
4	☐	125.000	123.034	513654.13	0.0296	P	0.3
5	☐	250.000	245.922	1001241.26	0.0591	P	0.6
6	☐	500.000	499.686	1961653.01	0.1201	A	0.3
7	☐	1000.000	1001.458	3900790.57	0.2408	A	0.8
8	☐			2346.88	0.0001	P	2.3

$$y = 2.4042E-004 * x + 6.2654E-006$$

$$R = 1.0000$$

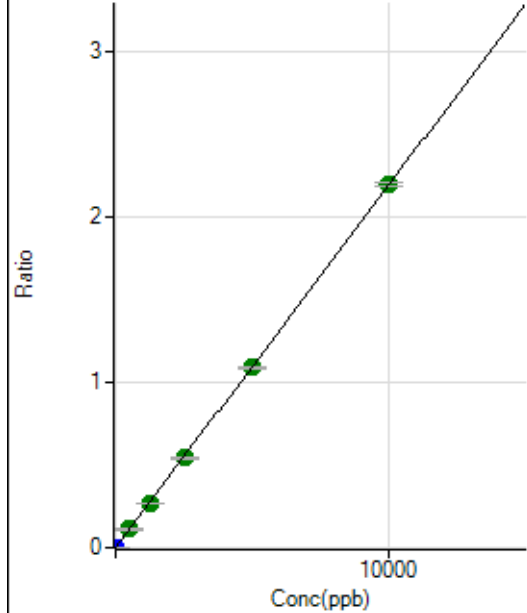
$$DL = 0.0251$$

$$BEC = 0.02606$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	451.12	0.0000	P	13.4
2	☐	5.000	6.074	24152.21	0.0014	P	3.6
3	☐	500.000	504.639	1965182.99	0.1106	A	1.0
4	☐	1250.000	1239.811	4714975.07	0.2716	A	0.6
5	☐	2500.000	2484.068	9213075.07	0.5441	A	1.2
6	☐	5000.000	4976.597	17798051.40	1.0901	A	1.5
7	☐	10000.000	10016.725	35544529.20	2.1940	A	0.9
8	☐			8389.14	0.0005	P	2.0

$$y = 2.1903E-004 * x + 2.5276E-005$$

R = 1.0000

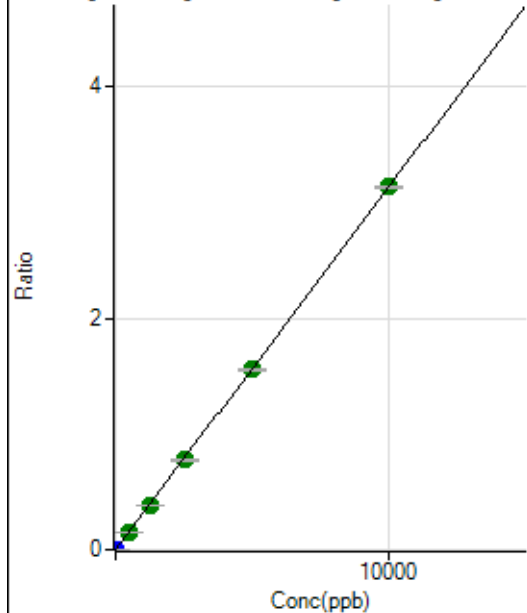
DL = 0.0465

BEC = 0.1154

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	452.23	0.0000	P	11.1
2	☐	5.000	5.188	29383.96	0.0016	P	1.4
3	☐	500.000	498.347	2772652.56	0.1560	A	1.3
4	☐	1250.000	1243.085	6754450.04	0.3891	A	0.5
5	☐	2500.000	2475.395	13117714.39	0.7747	A	1.1
6	☐	5000.000	4982.584	25460624.90	1.5594	A	1.2
7	☐	10000.000	10015.807	50781957.02	3.1345	A	0.3
8	☐			7776.58	0.0005	P	1.6

$$y = 3.1296E-004 * x + 2.5298E-005$$

R = 1.0000

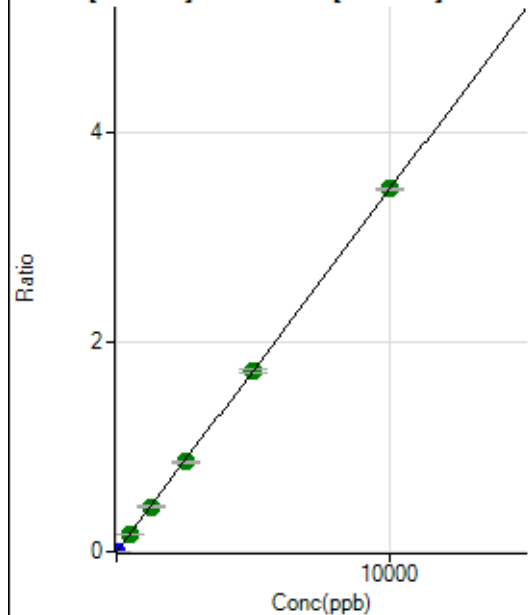
DL = 0.02685

BEC = 0.08083

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	467.79	0.0000	P	5.6
2	☐	5.000	5.246	32747.70	0.0018	P	1.3
3	☐	500.000	500.470	3072506.90	0.1729	A	1.1
4	☐	1250.000	1245.544	7467695.09	0.4301	A	0.8
5	☐	2500.000	2477.719	14487829.37	0.8556	A	1.6
6	☐	5000.000	4981.646	28088622.36	1.7203	A	1.5
7	☐	10000.000	10015.280	56031054.16	3.4586	A	0.6
8	☐			17187.97	0.0011	P	1.9

$$y = 3.4533\text{E-}004 * x + 2.6192\text{E-}005$$

$$R = 1.0000$$

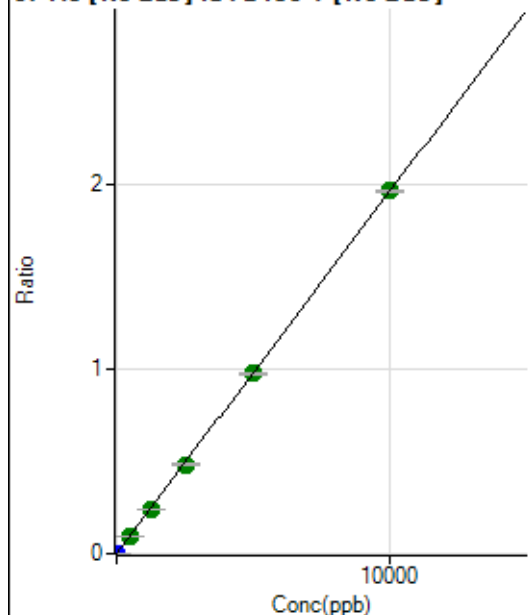
$$DL = 0.01267$$

$$BEC = 0.07585$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	302.23	0.0000	P	2.1
2	☐	5.000	5.133	18230.36	0.0010	P	2.0
3	☐	500.000	498.227	1736417.08	0.0977	A	0.6
4	☐	1250.000	1237.865	4213294.00	0.2427	A	1.1
5	☐	2500.000	2469.156	8196234.74	0.4841	A	0.6
6	☐	5000.000	4973.559	15919524.90	0.9750	A	1.2
7	☐	10000.000	10022.537	31830718.41	1.9648	A	0.5
8	☐			4720.81	0.0003	P	5.4

$$y = 1.9603\text{E-}004 * x + 1.6917\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.005412$$

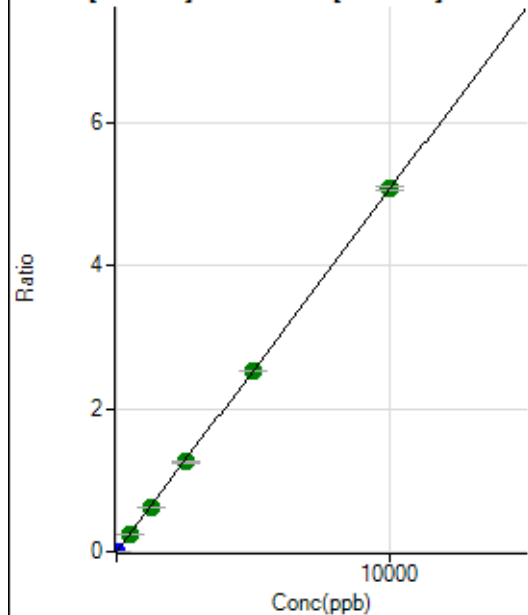
$$BEC = 0.0863$$

Weight: <None>

Min Conc: 0

Calibration for 005CALS.d

98 Mo [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	685.58	0.0000	P	1.2
2	☐	5.000	5.169	47311.87	0.0027	P	1.3
3	☐	500.000	495.624	4461184.52	0.2510	A	1.0
4	☐	1250.000	1238.662	10888664.42	0.6272	A	0.4
5	☐	2500.000	2477.139	21236879.82	1.2542	A	0.9
6	☐	5000.000	4983.145	41195568.27	2.5230	A	0.6
7	☐	10000.000	10015.779	82153321.00	5.0711	A	1.0
8	☐			11370.08	0.0007	P	5.3

$$y = 5.0630E-004 * x + 3.8366E-005$$

$$R = 1.0000$$

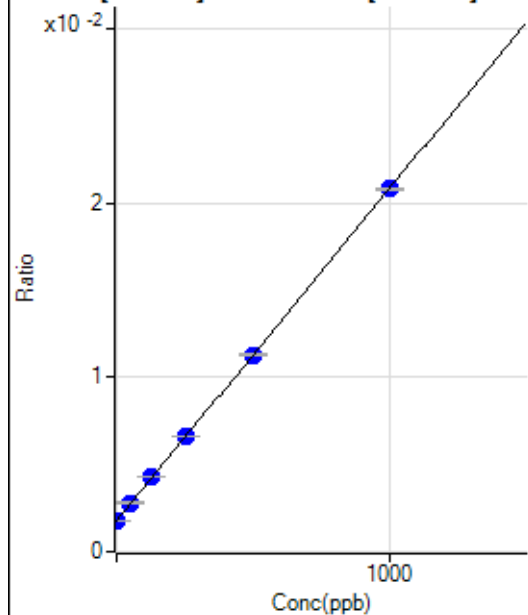
$$DL = 0.002773$$

$$BEC = 0.07578$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25469.04	0.0018	P	0.6
2	☐	1.000	1.518	25858.66	0.0018	P	0.4
3	☐	50.000	54.304	40841.71	0.0028	P	1.2
4	☐	125.000	131.001	62056.18	0.0043	P	0.4
5	☐	250.000	253.776	96021.24	0.0066	P	0.6
6	☐	500.000	498.844	161881.46	0.0113	P	1.3
7	☐	1000.000	998.668	294276.52	0.0208	P	0.9
8	☐			22282.72	0.0017	P	1.2

$$y = 1.9069E-005 * x + 0.0018$$

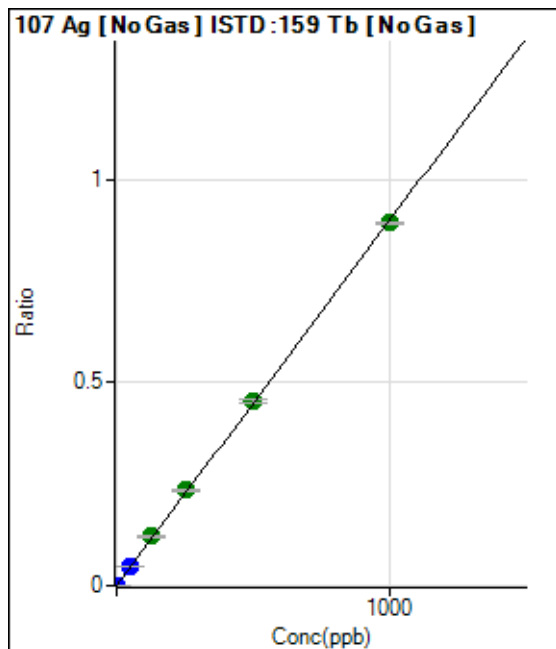
$$R = 1.0000$$

$$DL = 1.577$$

$$BEC = 92.92$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	115.56	0.0000	P	20.4
2	☐	1.000	1.101	14323.83	0.0010	P	0.4
3	☐	50.000	54.855	717557.13	0.0493	P	0.2
4	☐	125.000	134.448	1756615.48	0.1209	A	1.1
5	☐	250.000	260.990	3407826.51	0.2346	A	1.3
6	☐	500.000	504.173	6502114.77	0.4532	A	1.7
7	☐	1000.000	993.742	12630183.70	0.8934	A	0.4
8	☐			2500.24	0.0002	P	7.4

$$y = 8.9897E-004 * x + 8.0341E-006$$

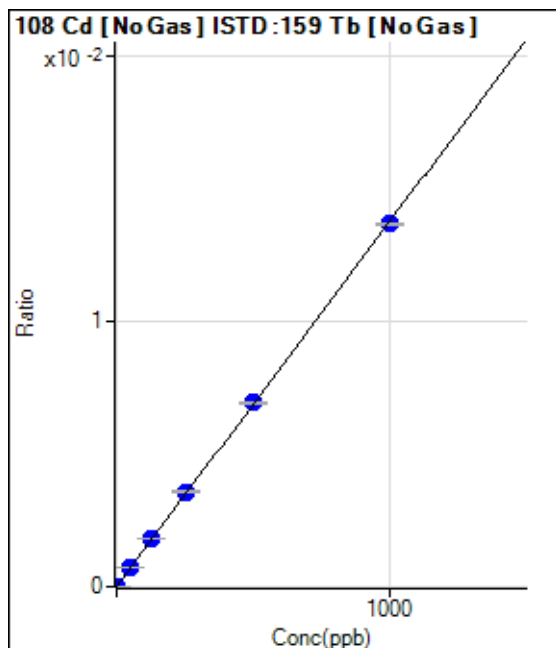
R = 0.9999

DL = 0.005465

BEC = 0.008937

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0000	P	5.3
2	☐	1.000	1.239	292.23	0.0000	P	13.5
3	☐	50.000	54.143	10864.15	0.0007	P	2.6
4	☐	125.000	133.505	26691.26	0.0018	P	0.3
5	☐	250.000	260.037	51909.07	0.0036	P	1.0
6	☐	500.000	503.434	99222.77	0.0069	P	0.6
7	☐	1000.000	994.503	193119.38	0.0137	P	0.6
8	☐			146.67	0.0000	P	12.8

$$y = 1.3731E-005 * x + 3.3252E-006$$

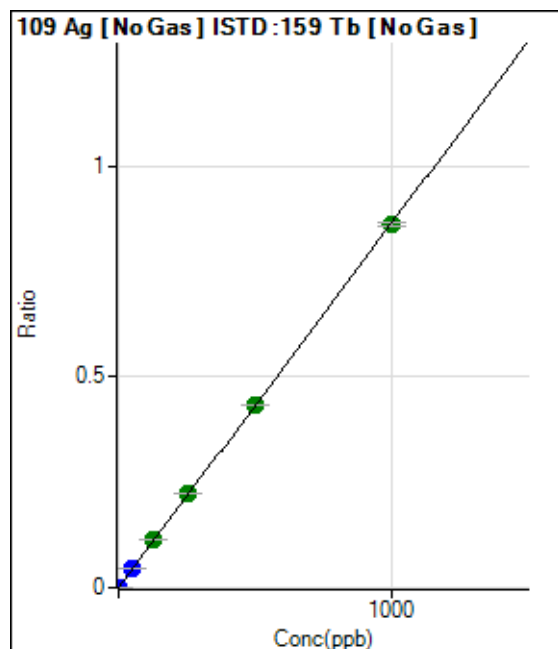
R = 0.9999

DL = 0.0382

BEC = 0.2422

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.55	0.0000	P	13.8
2	☐	1.000	1.099	13699.90	0.0010	P	0.9
3	☐	50.000	54.446	684712.04	0.0471	P	0.9
4	☐	125.000	133.554	1677650.03	0.1154	A	1.5
5	☐	250.000	260.378	3268994.88	0.2251	A	0.4
6	☐	500.000	500.983	6212421.58	0.4330	A	0.8
7	☐	1000.000	995.622	12166437.46	0.8606	A	0.9
8	☐			2251.31	0.0002	P	9.8

$$y = 8.6436E-004 * x + 3.8688E-006$$

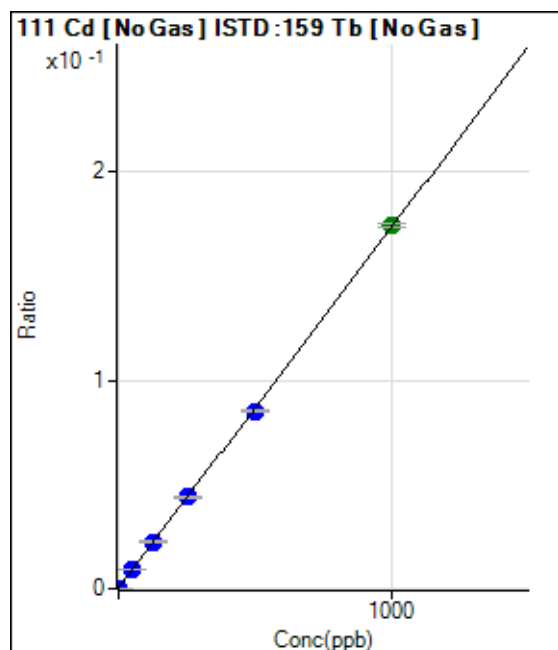
$$R = 0.9999$$

$$DL = 0.001848$$

$$BEC = 0.004476$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2543.46	0.0002	P	0.3
2	☐	1.000	1.202	5531.68	0.0004	P	0.9
3	☐	50.000	52.661	135323.08	0.0093	P	0.1
4	☐	125.000	129.137	327742.63	0.0226	P	1.1
5	☐	250.000	252.071	636942.88	0.0439	P	0.2
6	☐	500.000	490.534	1221893.83	0.0852	P	0.8
7	☐	1000.000	1003.565	2460847.08	0.1741	A	1.2
8	☐			2584.51	0.0002	P	3.4

$$y = 1.7327E-004 * x + 1.7694E-004$$

$$R = 0.9999$$

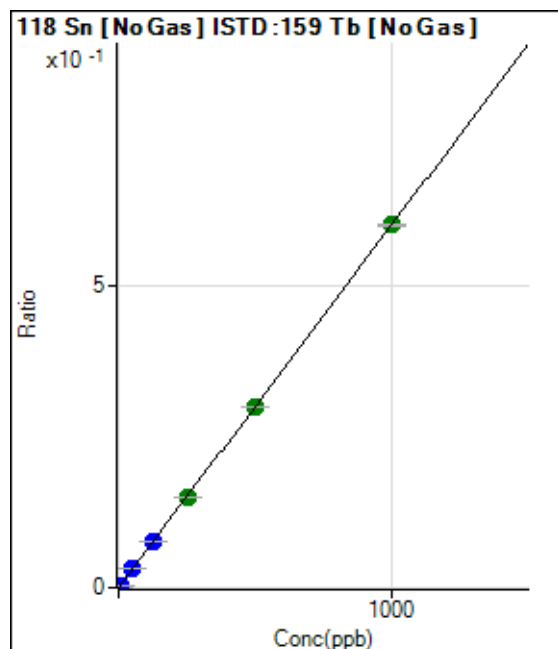
$$DL = 0.009162$$

$$BEC = 1.021$$

Weight: <None>

Min Conc: 0

Calibration for 005CALS.d



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	888.93	0.0001	P	7.3
2	☐	5.000	5.575	48857.03	0.0034	P	1.5
3	☐	50.000	51.668	451352.27	0.0310	P	0.3
4	☐	125.000	126.555	1103010.66	0.0759	P	1.0
5	☐	250.000	250.886	2184586.93	0.1504	A	0.5
6	☐	500.000	497.287	4276132.82	0.2981	A	0.5
7	☐	1000.000	1000.854	8480284.74	0.5998	A	0.6
8	☐			2649.16	0.0002	P	2.4

$$y = 5.9925\text{E-}004 * x + 6.1800\text{E-}005$$

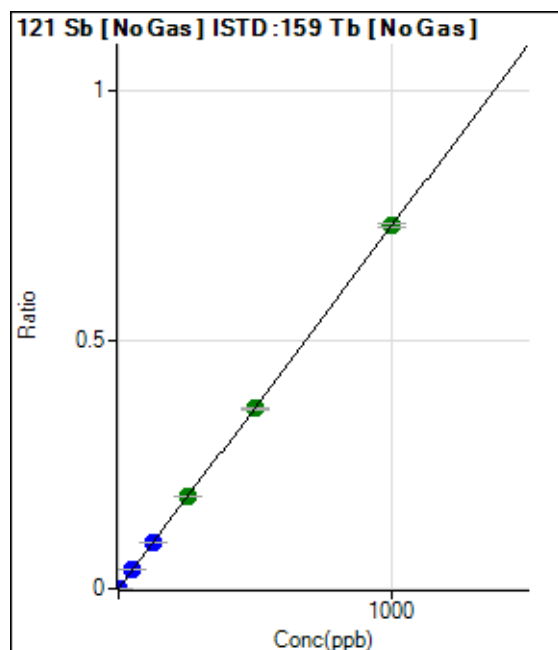
$$R = 1.0000$$

$$DL = 0.0227$$

$$BEC = 0.1031$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	35.8
2	☐	2.000	2.182	22856.01	0.0016	P	2.1
3	☐	50.000	51.272	543342.10	0.0373	P	0.5
4	☐	125.000	125.526	1328715.23	0.0914	P	1.2
5	☐	250.000	253.776	2684783.40	0.1848	A	0.6
6	☐	500.000	496.809	5191353.46	0.3619	A	1.0
7	☐	1000.000	1000.522	10302957.21	0.7287	A	1.0
8	☐			7758.84	0.0006	P	1.9

$$y = 7.2837\text{E-}004 * x + 2.3186\text{E-}006$$

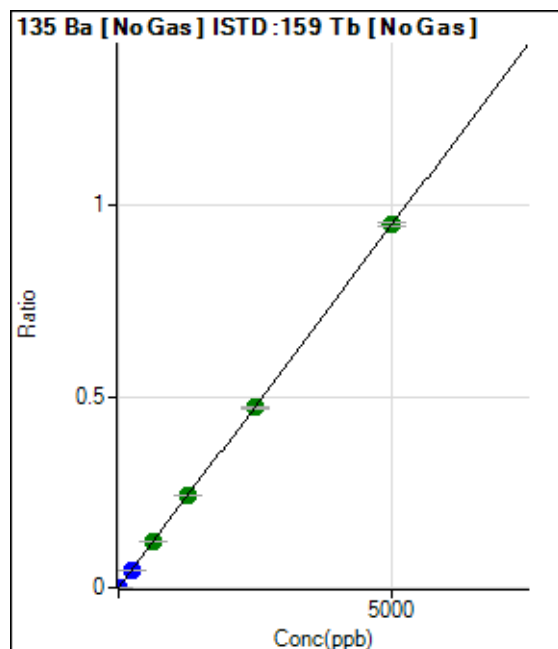
$$R = 1.0000$$

$$DL = 0.00342$$

$$BEC = 0.003183$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.56	0.0000	P	15.4
2	☐	10.000	10.559	28816.98	0.0020	P	2.6
3	☐	250.000	251.305	694127.61	0.0477	P	0.3
4	☐	625.000	636.736	1756795.80	0.1209	A	1.4
5	☐	1250.000	1265.378	3489123.80	0.2402	A	0.8
6	☐	2500.000	2483.223	6763307.68	0.4714	A	0.7
7	☐	5000.000	5003.010	13427808.27	0.9498	A	1.1
8	☐			5198.78	0.0004	P	4.0

$$y = 1.8984E-004 * x + 2.4762E-006$$

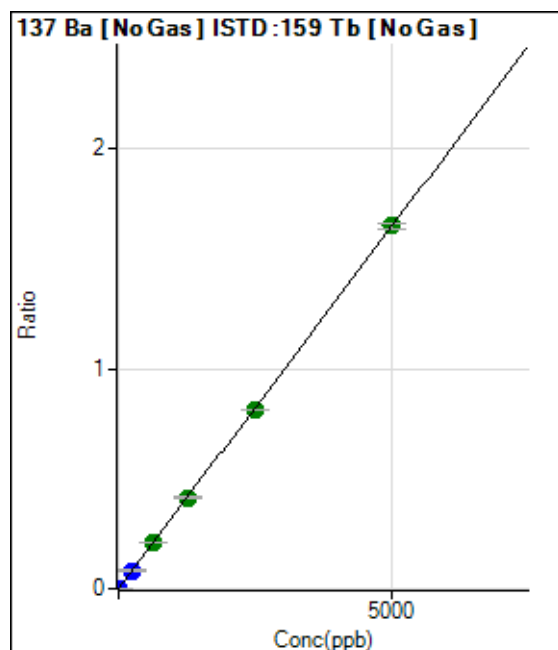
R = 1.0000

DL = 0.006015

BEC = 0.01304

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0000	P	27.7
2	☐	10.000	10.640	50398.84	0.0035	P	0.9
3	☐	250.000	251.388	1204896.06	0.0828	P	1.1
4	☐	625.000	639.709	3062750.86	0.2107	A	0.8
5	☐	1250.000	1257.553	6017224.15	0.4143	A	0.9
6	☐	2500.000	2470.310	11675480.10	0.8138	A	0.5
7	☐	5000.000	5011.047	23338363.54	1.6508	A	1.3
8	☐			9289.78	0.0007	P	2.4

$$y = 3.2944E-004 * x + 4.4092E-006$$

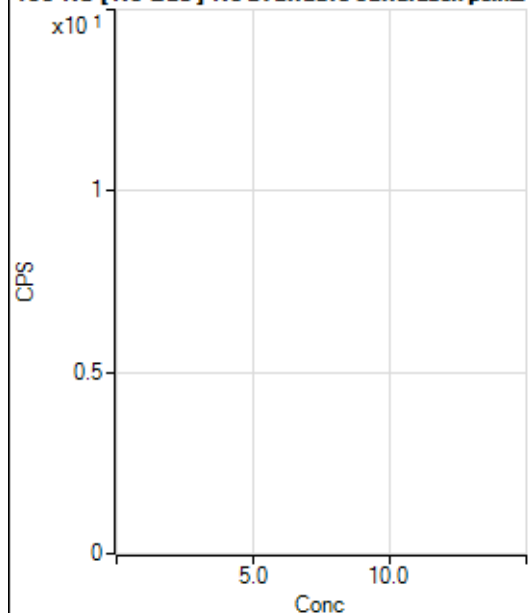
R = 1.0000

DL = 0.01113

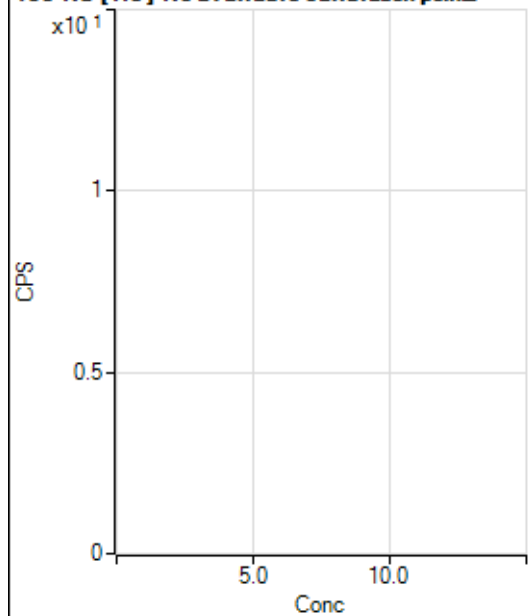
BEC = 0.01338

Weight: <None>

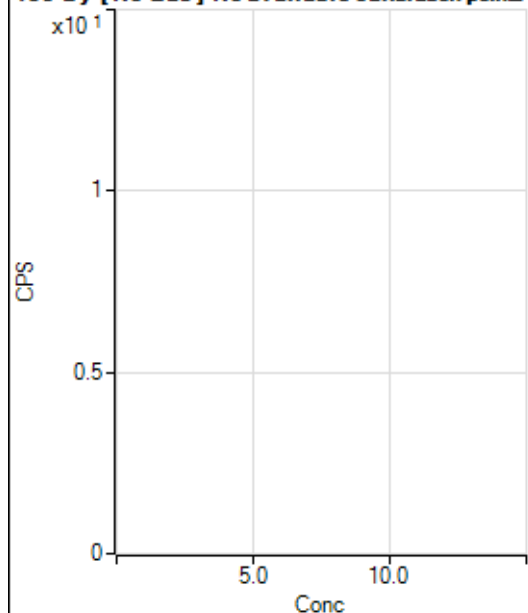
Min Conc: 0

150 Nd [No Gas] No available calibration points

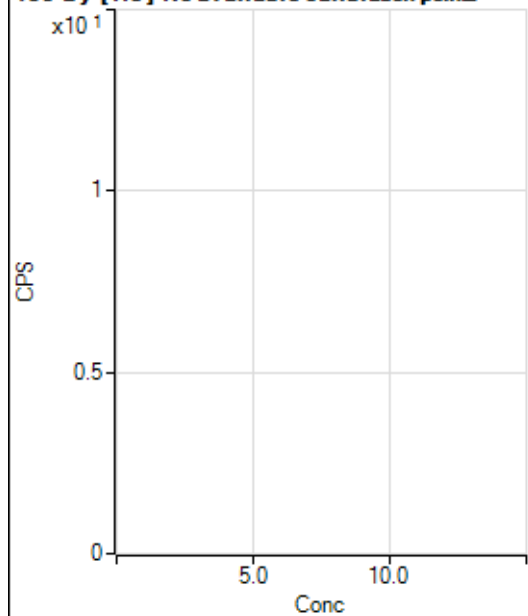
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			7.78		P	49.5
3	☐			60.00		P	19.2
4	☐			137.78		P	9.8
5	☐			264.45		P	7.3
6	☐			498.90		P	5.1
7	☐			914.48		P	1.5
8	☐			202.23		P	23.6

150 Nd [He] No available calibration points

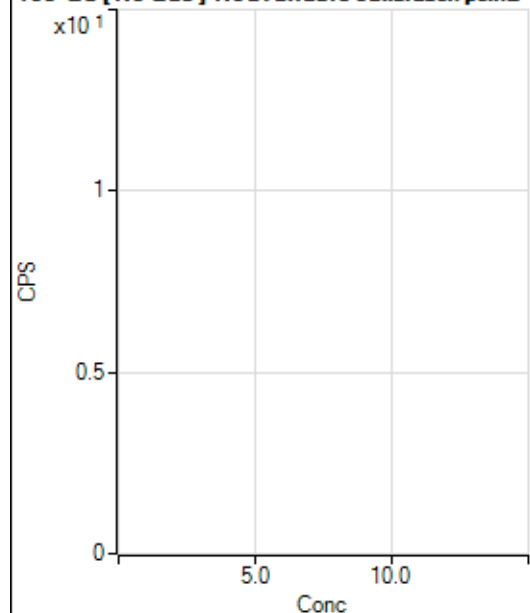
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			4.44		P	114.
3	☐			14.44		P	58.1
4	☐			44.45		P	24.1
5	☐			78.89		P	27.2
6	☐			143.34		P	10.1
7	☐			285.56		P	4.1
8	☐			127.78		P	8.4

156 Dy [No Gas] No available calibration points

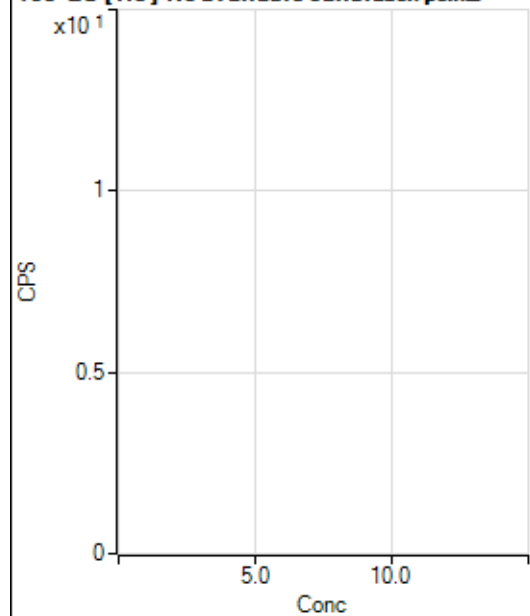
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			10.00		P	66.7
3	☐			61.11		P	3.1
4	☐			86.67		P	19.2
5	☐			138.89		P	9.1
6	☐			293.34		P	8.2
7	☐			578.91		P	2.8
8	☐			367.79		P	16.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			5.56		P	34.7
3	☐			66.66		P	31.2
4	☐			136.67		P	4.2
5	☐			242.23		P	15.9
6	☐			471.12		P	3.2
7	☐			927.82		P	7.4
8	☐			337.79		P	6.3

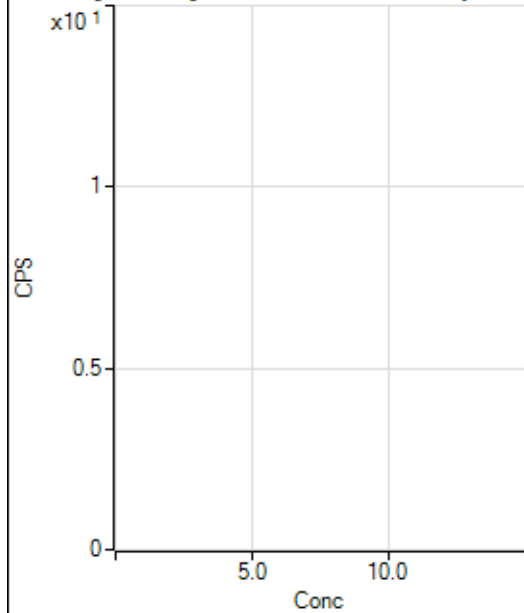
160 Gd [No Gas] No available calibration poin...

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			117.78		P	5.9
2	☐			108.89		P	6.4
3	☐			117.78		P	26.9
4	☐			126.67		P	25.1
5	☐			142.23		P	8.2
6	☐			181.11		P	7.7
7	☐			263.34		P	7.7
8	☐			406.68		P	11.1

160 Gd [He] No available calibration points

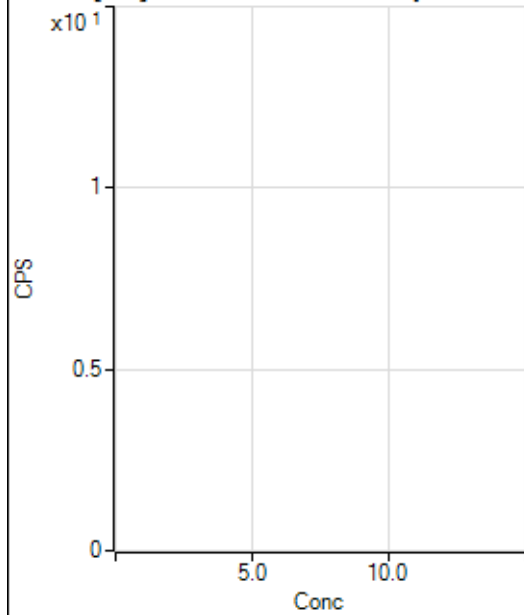
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			725.58		P	1.3
2	☐			645.58		P	8.5
3	☐			651.13		P	8.3
4	☐			692.25		P	9.4
5	☐			723.36		P	0.8
6	☐			728.92		P	1.2
7	☐			782.26		P	12.4
8	☐			934.48		P	3.6

164 Er [No Gas] No available calibration points



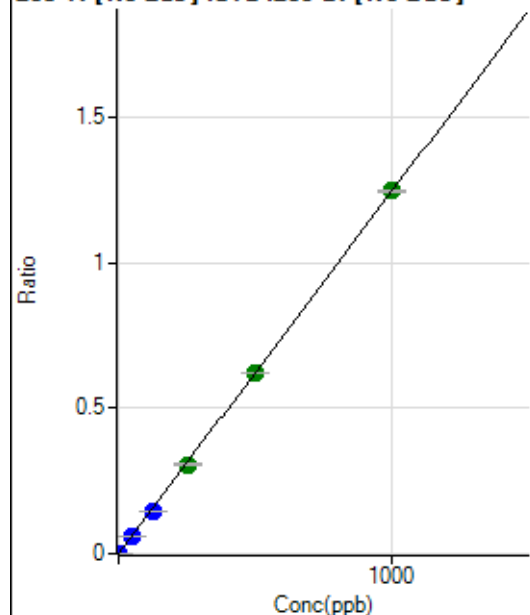
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	11.1
2	☐			81.11		P	39.5
3	☐			80.00		P	19.1
4	☐			88.89		P	12.1
5	☐			126.67		P	16.4
6	☐			176.67		P	23.2
7	☐			243.34		P	9.0
8	☐			487.79		P	12.3

164 Er [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.22		P	35.2
2	☐			41.11		P	32.8
3	☐			51.11		P	16.4
4	☐			74.44		P	29.1
5	☐			84.44		P	16.4
6	☐			128.89		P	7.9
7	☐			185.56		P	20.7
8	☐			345.56		P	7.2

203 Tl [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	214.45	0.0000	P	18.0
2	☐	1.000	0.962	10374.03	0.0012	P	3.1
3	☐	50.000	46.932	507550.81	0.0584	P	0.9
4	☐	125.000	117.236	1274752.64	0.1458	P	1.7
5	☐	250.000	246.284	2680272.36	0.3063	A	1.3
6	☐	500.000	498.592	5382065.20	0.6201	A	0.1
7	☐	1000.000	1002.757	10737733.66	1.2471	A	0.3
8	☐			1685.68	0.0002	P	6.8

$$y = 0.0012 * x + 2.5277E-005$$

$$R = 1.0000$$

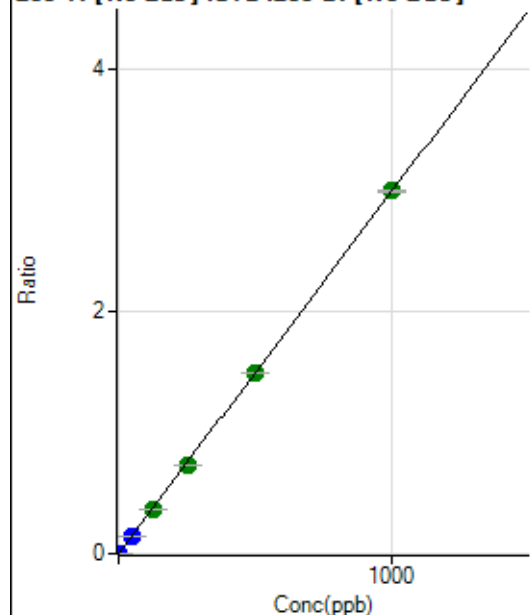
$$DL = 0.01096$$

$$BEC = 0.02033$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	515.57	0.0001	P	6.3
2	☐	1.000	0.955	24762.61	0.0029	P	1.4
3	☐	50.000	46.008	1197007.73	0.1377	P	1.2
4	☐	125.000	122.657	3208573.74	0.3670	A	1.9
5	☐	250.000	244.559	6402953.80	0.7318	A	1.3
6	☐	500.000	498.941	12957412.31	1.4929	A	0.4
7	☐	1000.000	1002.382	25823767.95	2.9992	A	0.4
8	☐			3910.60	0.0005	P	9.7

$$y = 0.0030 * x + 6.0789E-005$$

$$R = 1.0000$$

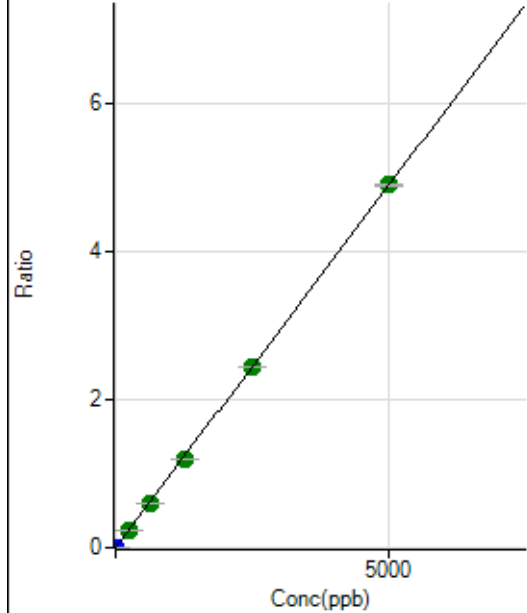
$$DL = 0.003867$$

$$BEC = 0.02032$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	410.01	0.0000	P	7.0
2	☐	1.000	0.970	8474.94	0.0010	P	0.6
3	☐	250.000	240.437	2048395.77	0.2357	A	1.1
4	☐	625.000	611.940	5242895.27	0.5997	A	0.7
5	☐	1250.000	1228.862	10538674.57	1.2043	A	0.3
6	☐	2500.000	2494.923	21220445.66	2.4450	A	0.5
7	☐	5000.000	5009.934	42271888.82	4.9096	A	0.5
8	☐			10928.91	0.0015	P	2.5

$$y = 9.7996E-004 * x + 4.8341E-005$$

$$R = 1.0000$$

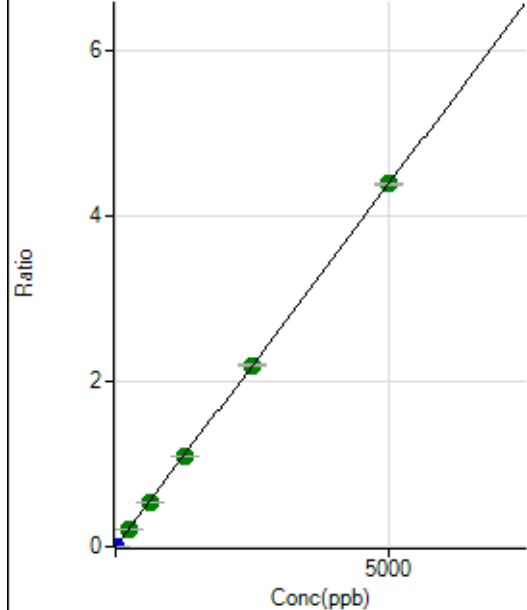
$$DL = 0.01033$$

$$BEC = 0.04933$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	376.68	0.0000	P	10.8
2	☐	1.000	0.957	7501.02	0.0009	P	1.9
3	☐	250.000	245.644	1872826.41	0.2155	A	0.1
4	☐	625.000	613.845	4706146.18	0.5384	A	1.7
5	☐	1250.000	1238.324	9502785.62	1.0860	A	0.4
6	☐	2500.000	2498.536	19016904.86	2.1911	A	0.7
7	☐	5000.000	5005.263	37793531.38	4.3894	A	0.7
8	☐			9473.38	0.0013	P	4.4

$$y = 8.7694E-004 * x + 4.4401E-005$$

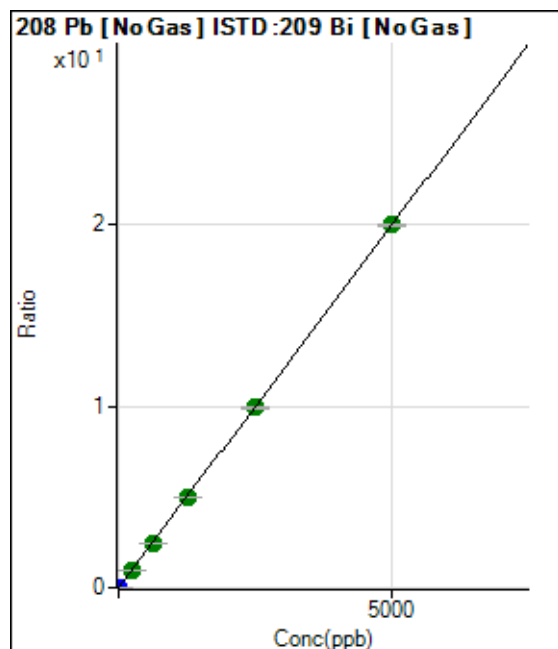
$$R = 1.0000$$

$$DL = 0.01647$$

$$BEC = 0.05063$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1657.84	0.0002	P	2.6
2	☐	1.000	0.966	34354.03	0.0040	P	1.3
3	☐	250.000	245.369	8504672.57	0.9784	A	0.3
4	☐	625.000	612.747	21356907.25	2.4430	A	1.1
5	☐	1250.000	1240.487	43277575.68	4.9457	A	0.2
6	☐	2500.000	2492.005	86224983.72	9.9351	A	1.0
7	☐	5000.000	5008.139	171913591.0	19.9662	A	0.2
8	☐			43957.21	0.0061	P	3.3

$$y = 0.0040 * x + 1.9547E-004$$

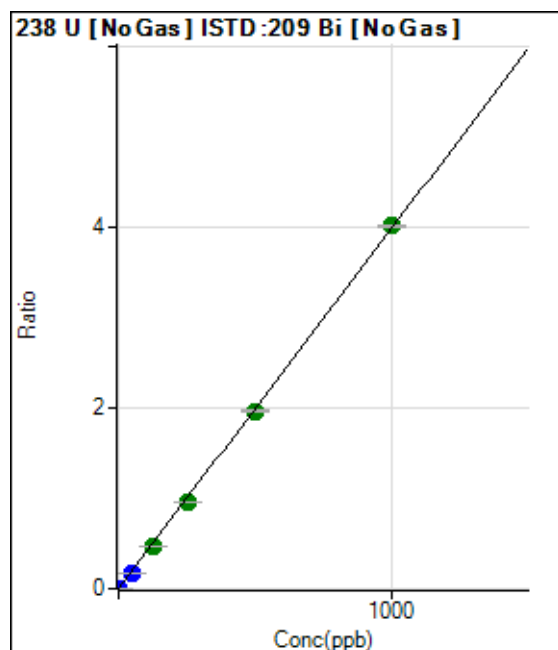
$$R = 1.0000$$

$$DL = 0.003819$$

$$BEC = 0.04903$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	28.1
2	☐	1.000	0.891	30235.44	0.0036	P	0.6
3	☐	50.000	43.126	1496423.92	0.1722	P	1.5
4	☐	125.000	116.910	4079721.02	0.4667	A	1.6
5	☐	250.000	240.687	8407246.54	0.9608	A	1.3
6	☐	500.000	493.279	17089175.16	1.9691	A	1.2
7	☐	1000.000	1007.044	34612385.60	4.0200	A	0.4
8	☐			2431.36	0.0003	P	9.0

$$y = 0.0040 * x + 5.4975E-006$$

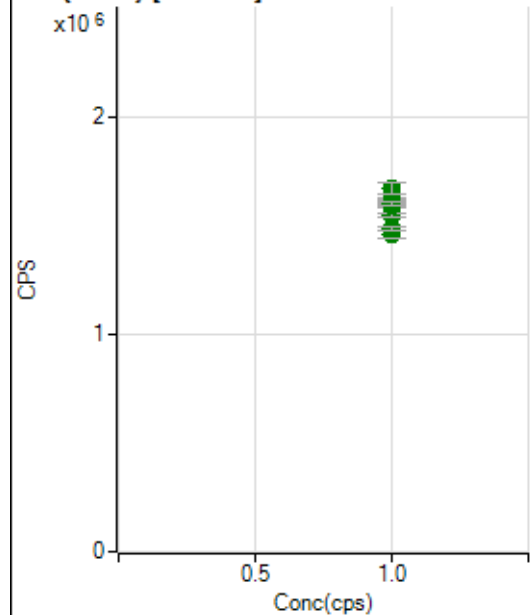
$$R = 0.9999$$

$$DL = 0.00116$$

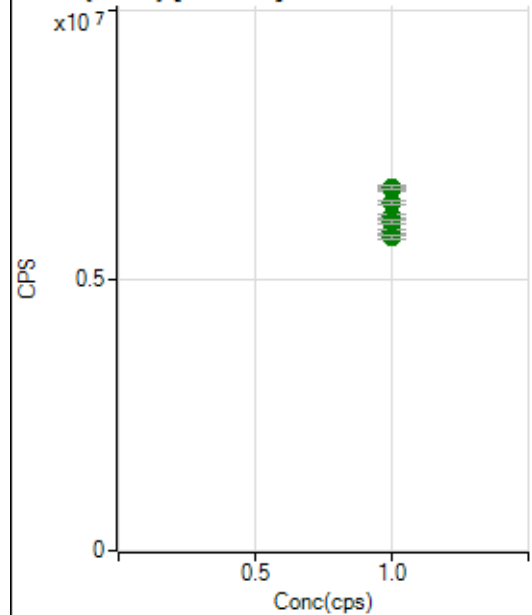
$$BEC = 0.001377$$

Weight: <None>

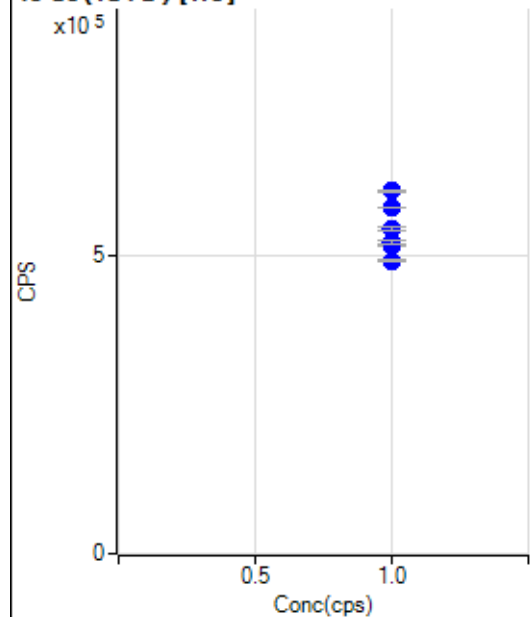
Min Conc: 0

6 Li (ISTD) [No Gas]

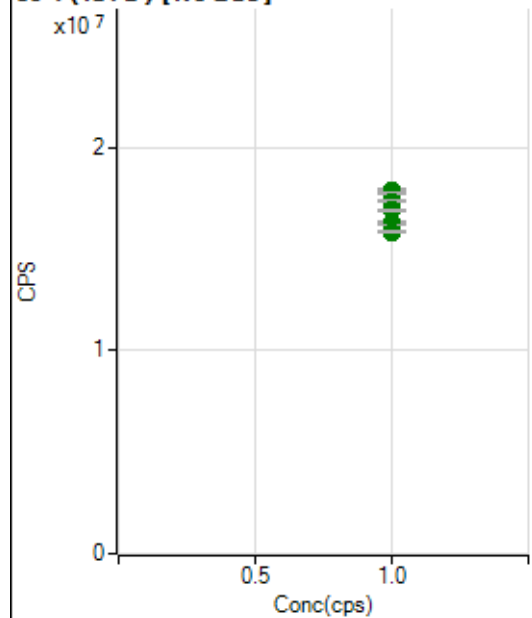
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1463389.49		A	2.3
2	☐	1.000		1490745.95		A	1.1
3	☐	1.000		1548562.25		A	1.2
4	☐	1.000		1596971.69		A	1.2
5	☐	1.000		1623928.12		A	0.7
6	☐	1.000		1617285.41		A	0.9
7	☐	1.000		1608185.65		A	1.0
8	☐	1.000		1672808.93		A	3.2

45 Sc (ISTD) [No Gas]

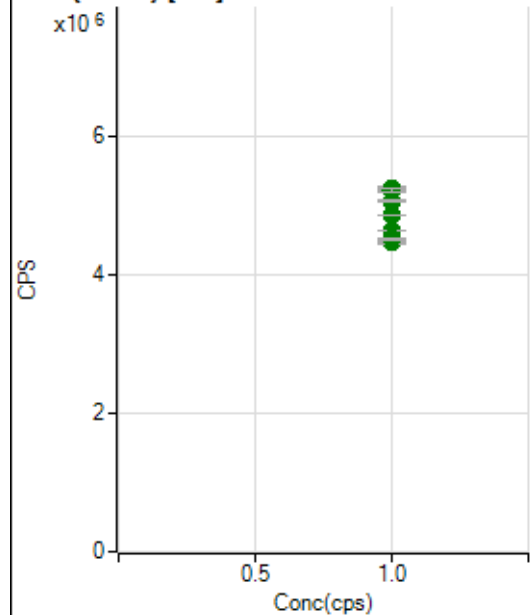
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6701219.00		A	1.4
2	☐	1.000		6699224.34		A	0.6
3	☐	1.000		6713817.68		A	1.1
4	☐	1.000		6449639.69		A	1.3
5	☐	1.000		6189002.69		A	1.1
6	☐	1.000		5907059.77		A	1.1
7	☐	1.000		5814361.72		A	1.1
8	☐	1.000		6088578.31		A	1.1

45 Sc (ISTD) [He]

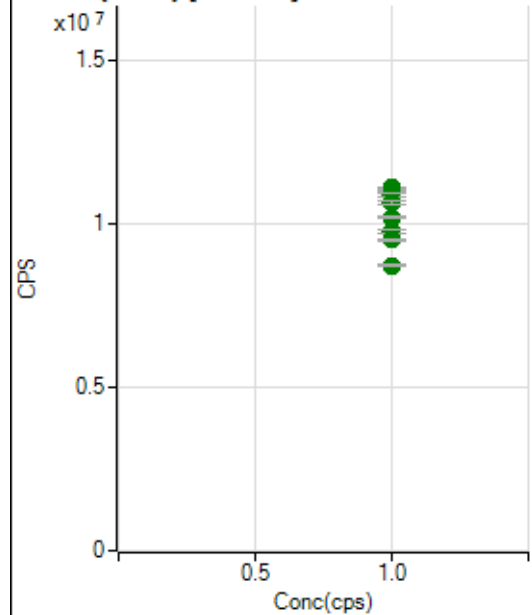
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		606667.33		P	0.4
2	☐	1.000		606258.35		P	0.3
3	☐	1.000		578707.75		P	0.4
4	☐	1.000		543759.81		P	0.8
5	☐	1.000		515063.44		P	0.3
6	☐	1.000		489615.40		P	0.1
7	☐	1.000		489972.48		P	0.6
8	☐	1.000		521218.40		P	0.8

89 Y (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17868366.40		A	1.3
2	☐	1.000		17819303.07		A	1.1
3	☐	1.000		17775673.35		A	0.5
4	☐	1.000		17361504.88		A	0.7
5	☐	1.000		16932897.94		A	0.6
6	☐	1.000		16328104.62		A	0.4
7	☐	1.000		16200862.26		A	0.5
8	☐	1.000		15847831.71		A	0.7

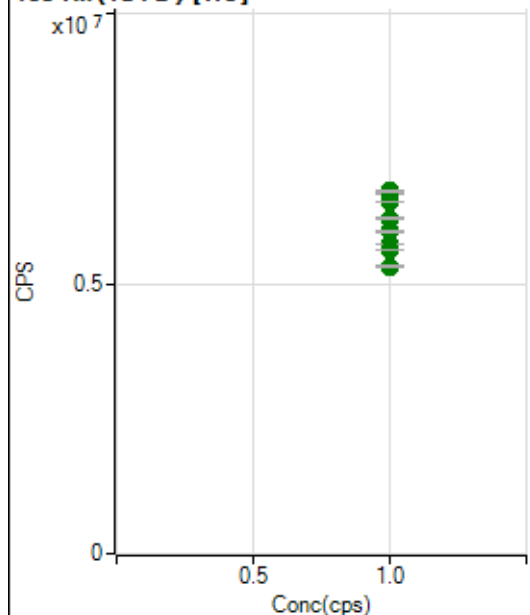
89 Y (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5234838.32		A	0.9
2	☐	1.000		5205820.79		A	1.0
3	☐	1.000		5061053.57		A	0.9
4	☐	1.000		4850866.49		A	0.3
5	☐	1.000		4638016.70		A	0.4
6	☐	1.000		4486603.79		A	0.6
7	☐	1.000		4463302.82		A	0.6
8	☐	1.000		4512388.13		A	0.7

103 Rh (ISTD) [No Gas]

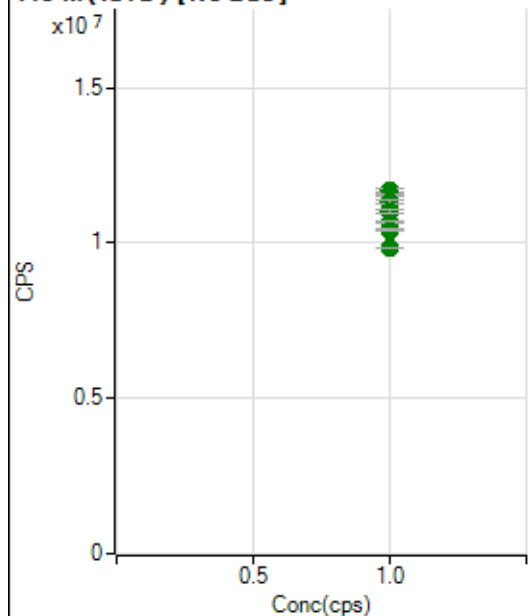
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11096493.17		A	0.5
2	☐	1.000		10983029.56		A	0.6
3	☐	1.000		10888567.20		A	0.8
4	☐	1.000		10646978.52		A	1.3
5	☐	1.000		10200101.31		A	0.5
6	☐	1.000		9785559.85		A	1.1
7	☐	1.000		9501535.48		A	0.9
8	☐	1.000		8723853.55		A	0.5

103 Rh (ISTD) [He]

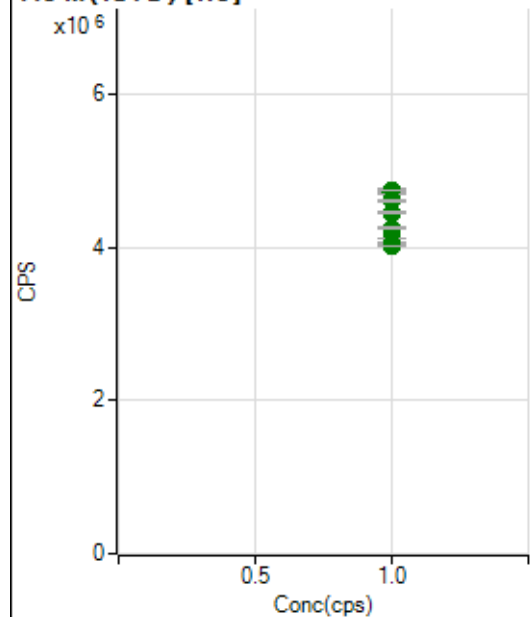


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6706090.80		A	0.8
2	☐	1.000		6723846.36		A	0.5
3	☐	1.000		6532693.51		A	0.2
4	☐	1.000		6202116.57		A	0.6
5	☐	1.000		5971154.01		A	0.5
6	☐	1.000		5741121.65		A	0.4
7	☐	1.000		5630576.30		A	0.4
8	☐	1.000		5323106.10		A	0.8

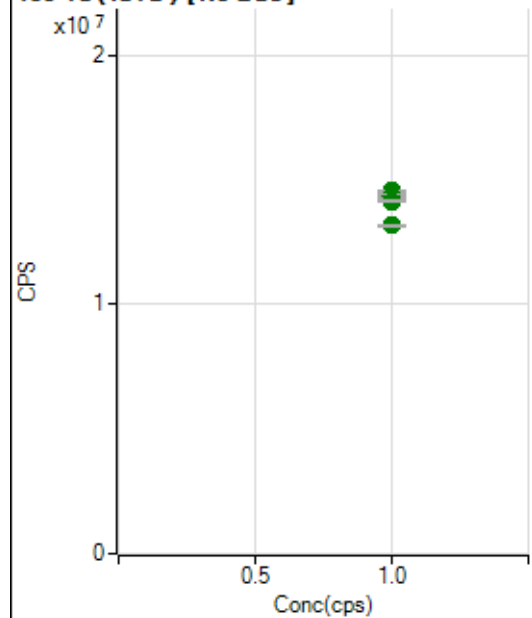
115 In (ISTD) [No Gas]



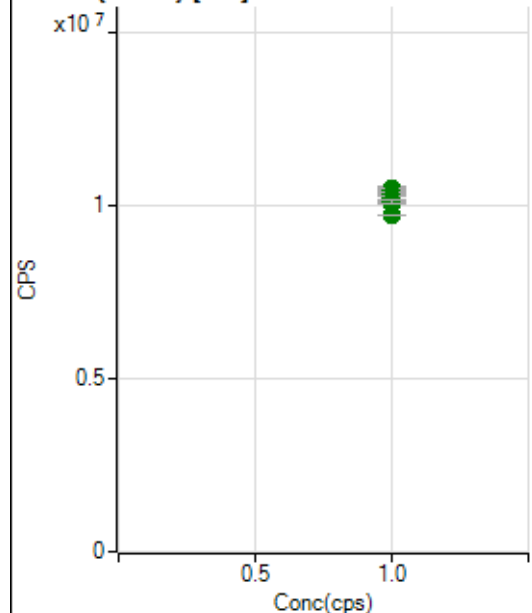
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11675402.66		A	1.2
2	☐	1.000		11550415.49		A	0.6
3	☐	1.000		11526358.24		A	0.4
4	☐	1.000		11342225.54		A	1.0
5	☐	1.000		10998395.67		A	0.9
6	☐	1.000		10663060.31		A	0.7
7	☐	1.000		10414510.28		A	0.6
8	☐	1.000		9843067.60		A	0.4

115 In (ISTD) [He]

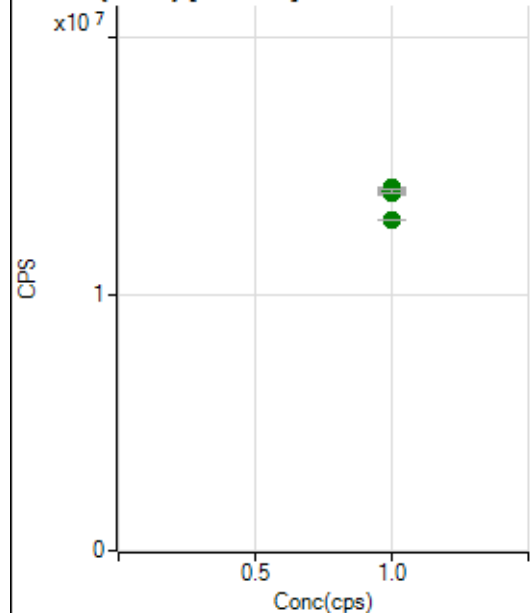
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4746320.53		A	1.0
2	☐	1.000		4726866.71		A	1.0
3	☐	1.000		4619929.07		A	0.3
4	☐	1.000		4461263.59		A	0.4
5	☐	1.000		4262567.34		A	0.4
6	☐	1.000		4128944.75		A	0.1
7	☐	1.000		4061317.86		A	0.8
8	☐	1.000		4025329.56		A	0.4

159 Tb (ISTD) [No Gas]

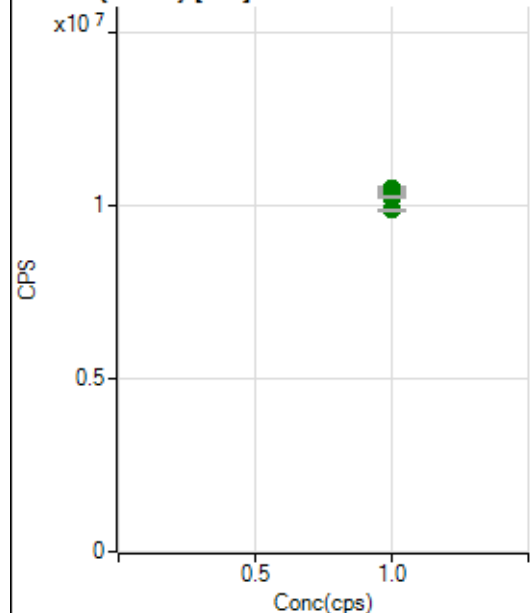
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14375264.23		A	1.2
2	☐	1.000		14360236.17		A	0.7
3	☐	1.000		14548644.64		A	0.4
4	☐	1.000		14533379.09		A	0.9
5	☐	1.000		14524641.45		A	0.5
6	☐	1.000		14346942.29		A	0.8
7	☐	1.000		14138104.37		A	0.6
8	☐	1.000		13149426.61		A	0.1

159 Tb (ISTD) [He]

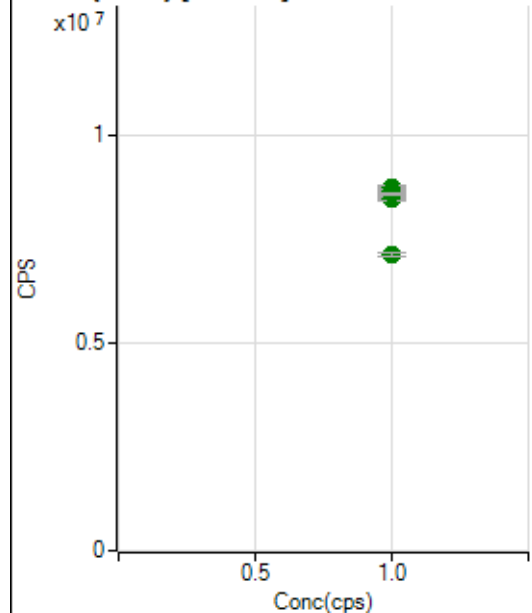
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10406782.76		A	1.5
2	☐	1.000		10496731.02		A	1.3
3	☐	1.000		10433771.65		A	1.3
4	☐	1.000		10344105.12		A	0.9
5	☐	1.000		10247735.40		A	0.8
6	☐	1.000		10094634.02		A	0.4
7	☐	1.000		10147097.00		A	1.0
8	☐	1.000		9726085.34		A	0.1

165 Ho (ISTD) [No Gas]

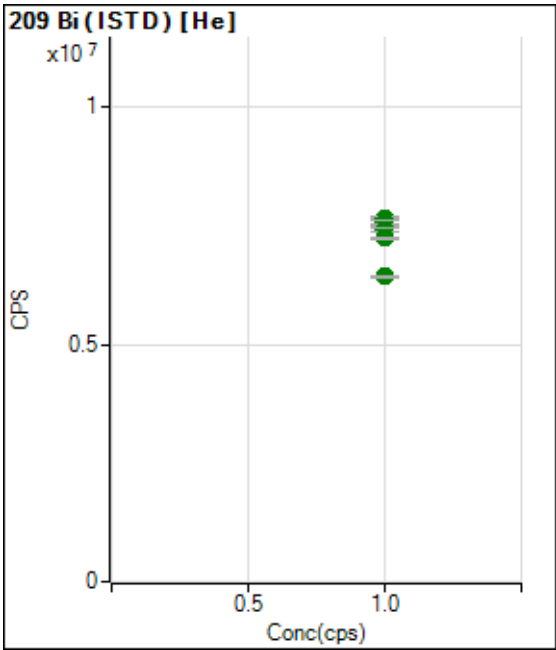
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14029135.07		A	0.5
2	☐	1.000		13950036.18		A	0.7
3	☐	1.000		14145965.90		A	0.2
4	☐	1.000		14154830.20		A	0.3
5	☐	1.000		14022183.40		A	0.2
6	☐	1.000		14066873.40		A	1.1
7	☐	1.000		14061618.40		A	1.0
8	☐	1.000		12908853.28		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10475486.99		A	1.6
2	☐	1.000		10455241.86		A	0.6
3	☐	1.000		10475639.36		A	0.8
4	☐	1.000		10393935.33		A	0.4
5	☐	1.000		10359926.93		A	0.7
6	☐	1.000		10275052.28		A	0.4
7	☐	1.000		10222616.17		A	0.5
8	☐	1.000		9873960.34		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8480716.47		A	0.5
2	☐	1.000		8487958.97		A	1.0
3	☐	1.000		8692284.25		A	0.7
4	☐	1.000		8742566.05		A	1.0
5	☐	1.000		8750752.16		A	1.4
6	☐	1.000		8679276.88		A	1.0
7	☐	1.000		8610208.69		A	0.7
8	☐	1.000		7163413.92		A	1.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1		1.000		7555914.40		A	1.6
2		1.000		7644698.36		A	0.4
3		1.000		7647313.84		A	1.0
4		1.000		7528511.97		A	0.4
5		1.000		7584766.83		A	1.1
6		1.000		7410396.90		A	1.0
7		1.000		7237948.78		A	0.6
8		1.000		6436353.72		A	0.4

US EPA Tune Check Report

Reviewed By:Mohan
On:1/16/2025 1:30:08
AM
Inst Id :P7
ClientSampleId
:TUNE001

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7010625MS-2.b
Acq. Date-Time 2025-01-06 12:39:40
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7162	71616.68			0.321	5.000
24		215525	2155254.96			0.603	5.000
25		27375	273752.32			0.283	5.000
26		31417	314167.90			0.555	5.000
59		84076	840759.37			0.399	5.000
113		11278	112779.02			0.647	5.000
115		142289	1422886.58			0.839	5.000
206		29738	297377.91			0.411	5.000
207		25747	257471.66			0.524	5.000
208		62494	624942.51			0.780	5.000
220		0	2.60			31.600	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7176	7137	7159	7193	7144
24	217678	214584	215827	214813	214724
25	27418	27448	27427	27305	27278
26	31657	31523	31348	31347	31209
59	83960	84333	83749	83819	84520
113	11356	11290	11298	11290	11157
115	143714	142782	142841	141236	140870
206	29934	29749	29663	29730	29613
207	25879	25603	25748	25884	25622
208	62471	63320	62322	62321	62038

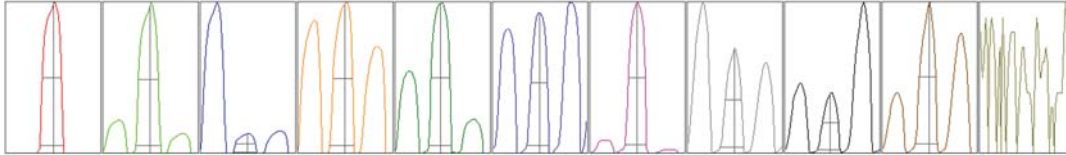
US EPA Tune Check Report

Reviewed By: Mohan
On: 1/16/2025 1:30:08 AM
Inst Id : P7
ClientSampleId : TUNE001

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12731.30	9.05	8.90 - 9.10	
24	366564.30	24.00	23.90 - 24.10	
25	47010.85	25.00	24.90 - 25.10	
26	53494.04	26.00	25.90 - 26.10	
59	147737.60	58.95	58.90 - 59.10	
113	22276.38	113.00	112.90 - 113.10	
115	279226.95	115.00	114.90 - 115.10	
206	60698.49	206.00	205.90 - 206.10	
207	51657.47	206.95	206.90 - 207.10	
208	130042.93	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.738	0.900	
24	0.62	0.784	0.900	
25	0.62	0.741	0.900	
26	0.61	0.777	0.900	
59	0.59	0.733	0.900	
113	0.51	0.708	0.900	
115	0.52	0.690	0.900	
206	0.50	0.747	0.900	
207	0.50	0.715	0.900	
208	0.51	0.706	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

Reviewed By: Mohan
On: 1/16/2025 1:30:08 AM
Inst Id : P7
Client Sample Id
TUNE001

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	14.4 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.8 mV	Analog HV	2265 V	Pulse HV	1056 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		27410	274096.40			0.595	
89		51907	519066.40			0.579	
205		32538	325375.23			0.704	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	27653	27490	27318	27345	27242
89	52425	51809	51644	51801	51856
205	32883	32662	32411	32370	32361

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	2.6 V
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US EPA Tune Check Report

Reviewed By:Mohan
On:1/16/2025 1:30:08
AM
Inst Id :P7
ClientSampleId
TUNE001

Extract 2	-160.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	139	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.8 mV	Analog HV	2265 V	Pulse HV	1056 V

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:15:48 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.19	0.07	0.12	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.01	0.00	0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	-0.01	0.00	0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.01	-0.01	0.01	0.00	N/A	ppb
Cadmium	106-1	-0.59	0.17	0.42	0.00	N/A	ppb
Cadmium	111-1	0.00	0.00	0.00	0.00	N/A	ppb
Calcium	43-1	-0.45	2.06	-1.61	0.00	N/A	ppb
Calcium	44-1	0.71	-0.85	0.14	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.02	0.03	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	-0.01	0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	-0.05	0.06	-0.01	0.00	N/A	ppb
Iron	57-2	-0.40	0.46	-0.06	0.00	N/A	ppb
Iron	54-2	0.03	-0.21	0.17	0.00	N/A	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:15:48 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	207-1	0.00	0.00	-0.01	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.01	-0.04	0.05	0.00	N/A	ppb
Manganese	55-2	-0.01	0.00	0.00	0.00	N/A	ppb
Molybdenum	94-1	0.00	-0.02	0.02	0.00	N/A	ppb
Molybdenum	95-1	-0.01	0.01	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.00	-0.01	0.00	N/A	ppb
Phosphorus	31-2	-16.12	-18.30	-12.50	-15.64		ppb
Potassium	39-2	-0.51	-0.25	0.75	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.13	-0.23	0.10	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.34	0.47	-0.12	0.00	N/A	ppb
Silicon	28-1	0.03	-0.33	0.30	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-0.01	-0.38	0.40	0.00	N/A	ppb
Strontium	86-1	-0.18	0.27	-0.09	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-113.96	-61.06	44.07	-43.65		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.01	0.00	-0.01	0.00	N/A	ppb
Titanium	47-1	-0.02	0.02	-0.01	0.00	N/A	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:15:48 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.00	-0.01	0.01	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	-0.01	0.01	0.00	0.00	N/A	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:19:03 DataFile Name : 005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.63	19.55	20.33	19.84	2.18	ppb
Antimony	121-1	2.23	2.18	2.14	2.18	2.07	ppb
Arsenic	75-2	1.21	1.18	1.38	1.26	8.38	ppb
Barium	135-1	10.86	10.48	10.33	10.56	2.58	ppb
Barium	137-1	10.64	10.74	10.54	10.64	0.92	ppb
Beryllium	9-1	1.19	1.34	1.15	1.23	8.42	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.02	1.30	1.40	1.24	16.09	ppb
Cadmium	106-1	1.96	1.30	1.29	1.52	25.04	ppb
Cadmium	111-1	1.20	1.18	1.22	1.20	1.59	ppb
Calcium	43-1	573.54	558.62	555.78	562.65	1.70	ppb
Calcium	44-1	553.42	556.10	559.79	556.44	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.15	2.08	2.05	2.09	2.47	ppb
Cobalt	59-2	1.11	1.13	1.08	1.10	2.02	ppb
Copper	63-2	2.06	2.02	2.05	2.05	0.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	56-2	56.60	57.01	56.73	56.78	0.37	ppb
Iron	57-2	60.11	60.56	58.64	59.77	1.68	ppb
Iron	54-2	58.05	57.55	60.41	58.67	2.61	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:19:03 DataFile Name : 005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.97	0.96	0.97	0.97	0.65	ppb
Lead	207-1	0.94	0.95	0.98	0.96	2.04	ppb
Lead	208-1	0.95	0.97	0.98	0.97	1.34	ppb
Lithium	6-1				102		%
Magnesium	24-2	545.50	541.12	536.90	541.17	0.79	ppb
Manganese	55-2	1.04	1.06	1.00	1.03	3.37	ppb
Molybdenum	94-1	6.33	5.98	5.91	6.07	3.67	ppb
Molybdenum	95-1	5.15	5.15	5.27	5.19	1.38	ppb
Molybdenum	96-1	5.25	5.31	5.17	5.25	1.34	ppb
Molybdenum	97-1	5.23	5.02	5.15	5.13	2.08	ppb
Molybdenum	98-1	5.25	5.13	5.12	5.17	1.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.05	1.10	1.09	1.08	2.77	ppb
Phosphorus	31-2	17.04	14.67	15.21	15.64	7.96	ppb
Potassium	39-2	538.95	532.69	537.59	536.41	0.61	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	5.83	5.85	5.54	5.74	2.93	ppb
Selenium	77-2	5.77	5.87	5.14	5.59	7.12	ppb
Selenium	78-2	7.87	6.36	6.12	6.78	13.97	ppb
Silicon	28-1	0.17	0.04	0.14	0.12	59.20	ppb
Silver	107-1	1.10	1.10	1.10	1.10	0.40	ppb
Silver	109-1	1.09	1.11	1.10	1.10	0.85	ppb
Sodium	23-2	505.66	499.87	498.27	501.27	0.78	ppb
Strontium	86-1	26.62	26.27	25.69	26.19	1.80	ppb
Strontium	88-1	26.74	25.79	26.27	26.26	1.82	ppb
Sulfur	34-1	17.48	12.71	100.76	43.65	113.44	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.98	0.93	0.97	0.96	3.13	ppb
Thallium	205-1	0.96	0.94	0.96	0.95	1.43	ppb
Tin	118-1	5.66	5.57	5.49	5.57	1.55	ppb
Titanium	47-1	5.17	5.21	5.42	5.26	2.60	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:19:03 DataFile Name : 005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.89	0.89	0.90	0.89	0.57	ppb
Vanadium	51-2	5.17	5.29	5.27	5.24	1.22	ppb
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	5.42	5.42	5.06	5.30	3.91	ppb
Zirconium	90-1	1.01	1.00	1.00	1.01	0.65	ppb
Zirconium	91-1	1.06	1.00	1.03	1.03	2.62	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:25:33 DataFile Name : 007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	983.35	973.94	977.76	978.35	0.48	ppb
Antimony	121-1	51.59	51.16	51.07	51.27	0.54	ppb
Arsenic	75-2	52.66	52.58	51.11	52.11	1.67	ppb
Barium	135-1	252.06	250.61	251.24	251.30	0.29	ppb
Barium	137-1	254.46	250.03	249.67	251.39	1.06	ppb
Beryllium	9-1	52.66	53.48	53.58	53.24	0.94	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	54.64	52.52	55.27	54.14	2.66	ppb
Cadmium	106-1	54.41	52.46	56.04	54.30	3.29	ppb
Cadmium	111-1	52.68	52.62	52.68	52.66	0.07	ppb
Calcium	43-1	5261.26	5393.65	5359.47	5338.13	1.29	ppb
Calcium	44-1	5016.97	5103.62	5082.30	5067.63	0.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.68	50.33	50.23	50.41	0.47	ppb
Cobalt	59-2	50.88	50.57	51.23	50.90	0.65	ppb
Copper	63-2	519.20	525.61	519.85	521.55	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	2634.97	2652.96	2638.70	2642.21	0.36	ppb
Iron	57-2	2748.47	2719.83	2696.39	2721.56	0.96	ppb
Iron	54-2	2746.36	2736.75	2748.75	2743.95	0.23	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:25:33 DataFile Name : 007CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	238.04	243.32	239.95	240.44	1.11	ppb
Lead	207-1	245.29	246.02	245.62	245.64	0.15	ppb
Lead	208-1	244.61	245.32	246.19	245.37	0.32	ppb
Lithium	6-1				106		%
Magnesium	24-2	5087.59	5021.58	5014.97	5041.38	0.80	ppb
Manganese	55-2	500.29	497.51	503.28	500.36	0.58	ppb
Molybdenum	94-1	499.29	508.98	505.65	504.64	0.98	ppb
Molybdenum	95-1	491.19	503.59	500.26	498.35	1.29	ppb
Molybdenum	96-1	496.02	506.79	498.60	500.47	1.12	ppb
Molybdenum	97-1	495.83	501.26	497.59	498.23	0.56	ppb
Molybdenum	98-1	492.43	501.61	492.82	495.62	1.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.38	52.42	52.18	52.33	0.25	ppb
Phosphorus	31-2	1070.33	1027.95	1030.00	1042.76	2.29	ppb
Potassium	39-2	2528.33	2508.30	2511.46	2516.03	0.43	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	51.84	52.75	52.14	52.24	0.89	ppb
Selenium	77-2	51.43	46.34	57.25	51.68	10.56	ppb
Selenium	78-2	55.13	51.34	53.21	53.23	3.57	ppb
Silicon	28-1	59.36	59.69	59.56	59.53	0.27	ppb
Silver	107-1	54.96	54.73	54.87	54.86	0.21	ppb
Silver	109-1	54.58	53.91	54.84	54.45	0.88	ppb
Sodium	23-2	5086.17	5091.92	5066.20	5081.43	0.27	ppb
Strontium	86-1	1218.43	1230.58	1226.70	1225.24	0.51	ppb
Strontium	88-1	1234.88	1232.70	1239.66	1235.75	0.29	ppb
Sulfur	34-1	945.20	961.36	949.49	952.02	0.88	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	46.61	47.38	46.80	46.93	0.85	ppb
Thallium	205-1	45.53	46.59	45.91	46.01	1.17	ppb
Tin	118-1	51.51	51.67	51.83	51.67	0.31	ppb
Titanium	47-1	489.36	499.79	496.80	495.32	1.09	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:25:33 DataFile Name : 007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	42.37	43.56	43.45	43.13	1.52	ppb
Vanadium	51-2	50.06	50.13	49.83	50.00	0.32	ppb
Yttrium	89-1				99		%
Yttrium	89-2				97		%
Zinc	66-2	508.20	507.59	504.37	506.72	0.41	ppb
Zirconium	90-1	49.01	49.20	49.68	49.30	0.70	ppb
Zirconium	91-1	49.17	49.19	49.48	49.28	0.36	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:28:35 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2417.84	2436.02	2424.80	2426.22	0.38	ppb
Antimony	121-1	123.98	125.71	126.89	125.53	1.17	ppb
Arsenic	75-2	127.72	128.21	128.61	128.18	0.35	ppb
Barium	135-1	628.97	646.86	634.38	636.74	1.44	ppb
Barium	137-1	636.06	637.89	645.17	639.71	0.75	ppb
Beryllium	9-1	130.43	133.64	129.46	131.18	1.67	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	133.89	133.52	133.11	133.50	0.29	ppb
Cadmium	106-1	131.66	131.22	130.12	131.00	0.60	ppb
Cadmium	111-1	127.54	129.90	129.97	129.14	1.07	ppb
Calcium	43-1	13176.15	13530.36	13500.73	13402.41	1.47	ppb
Calcium	44-1	12589.32	12849.43	12732.39	12723.71	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	124.66	126.69	125.58	125.64	0.81	ppb
Cobalt	59-2	125.74	127.16	125.78	126.23	0.64	ppb
Copper	63-2	1284.86	1303.55	1271.82	1286.75	1.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	56-2	6540.22	6590.99	6523.69	6551.63	0.54	ppb
Iron	57-2	6766.57	6824.48	6743.71	6778.25	0.61	ppb
Iron	54-2	6666.91	6669.32	6620.01	6652.08	0.42	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:28:35 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	607.27	612.81	615.74	611.94	0.70	ppb
Lead	207-1	601.63	621.71	618.20	613.85	1.75	ppb
Lead	208-1	604.97	615.09	618.18	612.75	1.13	ppb
Lithium	6-1				109		%
Magnesium	24-2	12382.68	12492.83	12428.88	12434.80	0.44	ppb
Manganese	55-2	1240.46	1260.36	1235.99	1245.60	1.04	ppb
Molybdenum	94-1	1233.92	1237.09	1248.43	1239.81	0.62	ppb
Molybdenum	95-1	1237.55	1242.00	1249.70	1243.08	0.49	ppb
Molybdenum	96-1	1237.16	1242.82	1256.65	1245.54	0.81	ppb
Molybdenum	97-1	1248.23	1223.12	1242.23	1237.86	1.06	ppb
Molybdenum	98-1	1234.01	1243.19	1238.79	1238.66	0.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	130.71	130.78	130.64	130.71	0.05	ppb
Phosphorus	31-2	2558.56	2616.19	2594.30	2589.68	1.12	ppb
Potassium	39-2	6104.21	6165.98	6188.14	6152.77	0.71	ppb
Rhodium	103-1				96		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				90		%
Selenium	82-1	131.49	129.90	130.24	130.54	0.64	ppb
Selenium	77-2	121.53	128.95	135.29	128.59	5.36	ppb
Selenium	78-2	129.47	132.23	131.02	130.90	1.06	ppb
Silicon	28-1	148.49	151.54	151.08	150.37	1.10	ppb
Silver	107-1	132.79	135.81	134.75	134.45	1.14	ppb
Silver	109-1	132.83	132.02	135.81	133.55	1.50	ppb
Sodium	23-2	12635.47	12706.64	12610.16	12650.75	0.40	ppb
Strontium	86-1	3027.44	3067.81	3077.49	3057.58	0.87	ppb
Strontium	88-1	3090.95	3132.38	3131.60	3118.31	0.76	ppb
Sulfur	34-1	2447.01	2518.03	2506.60	2490.55	1.53	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	115.32	117.15	119.23	117.24	1.67	ppb
Thallium	205-1	121.29	121.35	125.33	122.66	1.89	ppb
Tin	118-1	125.29	126.54	127.84	126.56	1.01	ppb
Titanium	47-1	1260.46	1262.31	1260.82	1261.20	0.08	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:28:35 DataFile Name : 008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	115.79	115.93	119.01	116.91	1.55	ppb
Vanadium	51-2	123.72	124.52	124.26	124.16	0.33	ppb
Yttrium	89-1				97		%
Yttrium	89-2				93		%
Zinc	66-2	1257.39	1280.86	1268.84	1269.03	0.92	ppb
Zirconium	90-1	125.59	123.68	126.11	125.13	1.02	ppb
Zirconium	91-1	123.00	122.65	123.45	123.03	0.33	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:31:26 DataFile Name : 009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4868.76	4861.60	4839.48	4856.61	0.31	ppb
Antimony	121-1	255.42	253.21	252.69	253.78	0.57	ppb
Arsenic	75-2	255.81	253.25	257.27	255.44	0.80	ppb
Barium	135-1	1273.14	1254.11	1268.88	1265.38	0.79	ppb
Barium	137-1	1260.34	1245.74	1266.57	1257.55	0.85	ppb
Beryllium	9-1	257.26	254.39	256.01	255.89	0.56	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	262.15	257.30	260.66	260.04	0.96	ppb
Cadmium	106-1	256.27	252.51	252.55	253.78	0.85	ppb
Cadmium	111-1	252.61	251.75	251.85	252.07	0.19	ppb
Calcium	43-1	27103.60	26348.87	27036.99	26829.82	1.56	ppb
Calcium	44-1	25481.98	25513.50	25599.14	25531.54	0.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	251.25	250.89	248.27	250.14	0.65	ppb
Cobalt	59-2	255.11	255.58	248.77	253.15	1.50	ppb
Copper	63-2	2561.01	2582.61	2527.69	2557.10	1.08	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	56-2	13176.12	13283.99	13217.70	13225.94	0.41	ppb
Iron	57-2	13536.58	13572.18	13504.31	13537.69	0.25	ppb
Iron	54-2	13443.99	13390.39	13421.69	13418.69	0.20	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:31:26 DataFile Name : 009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1224.51	1230.32	1231.75	1228.86	0.31	ppb
Lead	207-1	1243.91	1233.63	1237.43	1238.32	0.42	ppb
Lead	208-1	1242.29	1237.65	1241.53	1240.49	0.20	ppb
Lithium	6-1				111		%
Magnesium	24-2	25018.41	25018.66	24797.67	24944.91	0.51	ppb
Manganese	55-2	2495.94	2513.46	2493.10	2500.83	0.44	ppb
Molybdenum	94-1	2497.96	2505.65	2448.59	2484.07	1.25	ppb
Molybdenum	95-1	2491.76	2490.62	2443.81	2475.39	1.11	ppb
Molybdenum	96-1	2497.63	2503.12	2432.42	2477.72	1.59	ppb
Molybdenum	97-1	2467.47	2485.41	2454.59	2469.16	0.63	ppb
Molybdenum	98-1	2469.24	2502.29	2459.89	2477.14	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	258.84	258.03	254.80	257.22	0.83	ppb
Phosphorus	31-2	5202.46	5174.26	5102.45	5159.72	1.00	ppb
Potassium	39-2	12279.96	12272.91	12238.73	12263.87	0.18	ppb
Rhodium	103-1				92		%
Rhodium	103-2				89		%
Scandium	45-1				92		%
Scandium	45-2				85		%
Selenium	82-1	262.14	258.64	256.69	259.15	1.07	ppb
Selenium	77-2	274.11	251.46	263.48	263.02	4.31	ppb
Selenium	78-2	264.56	265.08	255.78	261.81	1.99	ppb
Silicon	28-1	305.05	298.83	300.66	301.51	1.06	ppb
Silver	107-1	264.82	258.13	260.02	260.99	1.32	ppb
Silver	109-1	259.29	261.51	260.33	260.38	0.43	ppb
Sodium	23-2	25459.89	25494.39	25179.01	25377.76	0.68	ppb
Strontium	86-1	6131.02	6117.44	6026.85	6091.77	0.93	ppb
Strontium	88-1	6189.31	6299.51	6245.67	6244.83	0.88	ppb
Sulfur	34-1	5106.41	4921.15	5014.88	5014.15	1.85	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	248.31	242.51	248.03	246.28	1.33	ppb
Thallium	205-1	246.85	240.95	245.88	244.56	1.29	ppb
Tin	118-1	251.59	251.65	249.41	250.89	0.51	ppb
Titanium	47-1	2495.29	2469.27	2489.12	2484.56	0.55	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:31:26 DataFile Name : 009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	241.58	237.32	243.16	240.69	1.26	ppb
Vanadium	51-2	248.88	248.03	246.47	247.80	0.49	ppb
Yttrium	89-1				95		%
Yttrium	89-2				89		%
Zinc	66-2	2575.76	2577.85	2527.71	2560.44	1.11	ppb
Zirconium	90-1	250.29	247.43	247.00	248.24	0.72	ppb
Zirconium	91-1	247.26	246.06	244.45	245.92	0.57	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:34:14 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9788.53	9838.38	9891.71	9839.54	0.52	ppb
Antimony	121-1	501.95	491.68	496.80	496.81	1.03	ppb
Arsenic	75-2	497.49	501.59	494.99	498.02	0.67	ppb
Barium	135-1	2502.53	2477.76	2469.38	2483.22	0.69	ppb
Barium	137-1	2482.14	2456.73	2472.06	2470.31	0.52	ppb
Beryllium	9-1	498.47	501.19	491.35	497.00	1.02	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	506.22	500.38	503.70	503.43	0.58	ppb
Cadmium	106-1	507.85	494.84	493.84	498.84	1.57	ppb
Cadmium	111-1	494.67	489.52	487.40	490.53	0.76	ppb
Calcium	43-1	51308.61	51112.71	51523.28	51314.87	0.40	ppb
Calcium	44-1	51511.13	50717.23	51184.18	51137.51	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	502.02	498.02	499.06	499.70	0.41	ppb
Cobalt	59-2	502.66	507.54	510.96	507.05	0.82	ppb
Copper	63-2	5062.89	5030.81	5064.92	5052.87	0.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				98		%
Indium	115-1				91		%
Indium	115-2				87		%
Iron	56-2	26409.26	26443.95	26319.87	26391.03	0.24	ppb
Iron	57-2	26354.71	26328.31	26648.60	26443.87	0.67	ppb
Iron	54-2	26929.84	26779.26	26860.69	26856.60	0.28	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:34:14 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2499.10	2481.47	2504.20	2494.92	0.48	ppb
Lead	207-1	2508.15	2478.79	2508.68	2498.54	0.68	ppb
Lead	208-1	2515.39	2466.75	2493.88	2492.00	0.98	ppb
Lithium	6-1				111		%
Magnesium	24-2	49464.94	49521.84	49949.06	49645.28	0.53	ppb
Manganese	55-2	5023.24	5008.72	5025.40	5019.12	0.18	ppb
Molybdenum	94-1	5051.16	4972.91	4905.73	4976.60	1.46	ppb
Molybdenum	95-1	5046.19	4975.31	4926.25	4982.58	1.21	ppb
Molybdenum	96-1	5067.22	4945.67	4932.05	4981.65	1.49	ppb
Molybdenum	97-1	5038.70	4918.24	4963.73	4973.56	1.22	ppb
Molybdenum	98-1	5017.05	4964.80	4967.58	4983.14	0.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	507.39	505.69	507.01	506.70	0.18	ppb
Phosphorus	31-2	9935.37	10012.36	10034.14	9993.96	0.52	ppb
Potassium	39-2	24296.98	24437.02	24288.84	24340.94	0.34	ppb
Rhodium	103-1				88		%
Rhodium	103-2				86		%
Scandium	45-1				88		%
Scandium	45-2				81		%
Selenium	82-1	516.20	510.61	506.70	511.17	0.93	ppb
Selenium	77-2	494.77	508.17	516.43	506.46	2.16	ppb
Selenium	78-2	499.29	505.88	502.76	502.64	0.66	ppb
Silicon	28-1	602.13	585.19	595.47	594.26	1.44	ppb
Silver	107-1	513.73	496.52	502.27	504.17	1.74	ppb
Silver	109-1	505.42	499.26	498.27	500.98	0.77	ppb
Sodium	23-2	50194.69	50467.29	50740.20	50467.40	0.54	ppb
Strontium	86-1	12522.44	12506.53	12291.04	12440.00	1.04	ppb
Strontium	88-1	12583.28	12498.03	12459.51	12513.60	0.51	ppb
Sulfur	34-1	10077.29	9776.59	9809.05	9887.65	1.67	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	498.15	498.63	499.00	498.59	0.09	ppb
Thallium	205-1	496.91	499.52	500.40	498.94	0.36	ppb
Tin	118-1	499.87	496.70	495.30	497.29	0.47	ppb
Titanium	47-1	5024.15	4941.31	4908.93	4958.13	1.20	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:34:14 DataFile Name : 010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	499.95	488.85	491.04	493.28	1.19	ppb
Vanadium	51-2	493.83	501.32	495.24	496.80	0.80	ppb
Yttrium	89-1				91		%
Yttrium	89-2				86		%
Zinc	66-2	5110.10	5066.96	5058.48	5078.51	0.55	ppb
Zirconium	90-1	502.19	501.10	492.95	498.75	1.01	ppb
Zirconium	91-1	501.16	499.83	498.07	499.69	0.31	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:36:58 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19524.86	19629.72	19378.79	19511.13	0.65	ppb
Antimony	121-1	998.73	991.25	1011.58	1000.52	1.03	ppb
Arsenic	75-2	1007.47	997.27	992.64	999.12	0.76	ppb
Barium	135-1	5024.57	4942.52	5041.94	5003.01	1.06	ppb
Barium	137-1	5054.25	4937.95	5040.94	5011.05	1.27	ppb
Beryllium	9-1	1005.18	994.85	997.25	999.09	0.54	ppb
Bismuth	209-1				102		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	988.91	1000.33	994.27	994.50	0.57	ppb
Cadmium	106-1	1005.86	987.77	1002.37	998.67	0.96	ppb
Cadmium	111-1	1003.54	991.43	1015.72	1003.56	1.21	ppb
Calcium	43-1	103315.26	102815.47	103800.77	103310.50	0.48	ppb
Calcium	44-1	103384.87	102151.81	103185.08	102907.25	0.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	995.29	1010.92	993.83	1000.01	0.95	ppb
Cobalt	59-2	986.81	997.88	1001.78	995.49	0.78	ppb
Copper	63-2	9988.78	9974.66	9897.41	9953.62	0.49	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				98		%
Indium	115-1				89		%
Indium	115-2				86		%
Iron	56-2	52605.30	52676.90	52485.87	52589.35	0.18	ppb
Iron	57-2	52272.63	52632.08	52484.17	52462.96	0.34	ppb
Iron	54-2	53098.60	52704.70	52802.55	52868.62	0.39	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:36:58 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5033.03	5009.63	4987.14	5009.93	0.46	ppb
Lead	207-1	5009.34	5038.18	4968.27	5005.26	0.70	ppb
Lead	208-1	5008.03	5020.23	4996.15	5008.14	0.24	ppb
Lithium	6-1				110		%
Magnesium	24-2	99292.61	99059.53	99255.62	99202.59	0.13	ppb
Manganese	55-2	10035.25	9897.09	10039.96	9990.76	0.81	ppb
Molybdenum	94-1	10022.72	9925.13	10102.32	10016.73	0.89	ppb
Molybdenum	95-1	10022.61	9982.11	10042.71	10015.81	0.31	ppb
Molybdenum	96-1	10046.26	9941.55	10058.03	10015.28	0.64	ppb
Molybdenum	97-1	10029.17	9971.32	10067.13	10022.54	0.48	ppb
Molybdenum	98-1	10078.05	9896.02	10073.26	10015.78	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	994.49	998.55	989.00	994.01	0.48	ppb
Phosphorus	31-2	19982.55	20013.95	19852.74	19949.74	0.43	ppb
Potassium	39-2	48910.76	48482.93	48639.82	48677.84	0.44	ppb
Rhodium	103-1				86		%
Rhodium	103-2				84		%
Scandium	45-1				87		%
Scandium	45-2				81		%
Selenium	82-1	987.85	993.96	992.14	991.32	0.32	ppb
Selenium	77-2	1013.39	995.69	969.87	992.98	2.20	ppb
Selenium	78-2	995.41	990.57	998.48	994.82	0.40	ppb
Silicon	28-1	948.78	921.76	938.78	936.44	1.46	ppb
Silver	107-1	995.58	989.49	996.15	993.74	0.37	ppb
Silver	109-1	1003.17	985.57	998.13	995.62	0.91	ppb
Sodium	23-2	102396.10	101535.26	100870.68	101600.68	0.75	ppb
Strontium	86-1	24843.66	25049.24	25344.76	25079.22	1.00	ppb
Strontium	88-1	24972.52	24877.71	25137.88	24996.04	0.53	ppb
Sulfur	34-1	20246.63	19787.13	20134.90	20056.22	1.19	ppb
Terbium	159-1				98		%
Terbium	159-2				98		%
Thallium	203-1	1005.18	999.33	1003.77	1002.76	0.30	ppb
Thallium	205-1	999.71	1006.80	1000.64	1002.38	0.38	ppb
Tin	118-1	997.53	997.03	1008.00	1000.85	0.62	ppb
Titanium	47-1	10029.35	9945.84	10095.70	10023.63	0.75	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:36:58 DataFile Name : 011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1011.24	1002.29	1007.61	1007.04	0.45	ppb
Vanadium	51-2	1014.89	1000.60	991.27	1002.25	1.19	ppb
Yttrium	89-1				91		%
Yttrium	89-2				85		%
Zinc	66-2	9946.73	10013.31	9868.71	9942.92	0.73	ppb
Zirconium	90-1	1006.02	994.20	1003.03	1001.09	0.61	ppb
Zirconium	91-1	997.29	996.01	1011.07	1001.46	0.83	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:39:44 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100052.87	99155.29	101161.00	100123.05	1.00	ppb
Antimony	121-1	0.82	0.81	0.79	0.81	1.88	ppb
Arsenic	75-2	0.63	0.69	0.66	0.66	4.67	ppb
Barium	135-1	2.10	2.13	1.98	2.07	4.00	ppb
Barium	137-1	2.18	2.08	2.13	2.13	2.37	ppb
Beryllium	9-1	0.19	0.18	0.16	0.18	9.06	ppb
Bismuth	209-1				84		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.48	0.55	0.68	0.57	18.18	ppb
Cadmium	106-1	-2.91	-5.10	-4.13	-4.05		ppb
Cadmium	111-1	0.16	0.08	0.10	0.11	34.47	ppb
Calcium	43-1	495045.79	498661.85	503559.11	499088.92	0.86	ppb
Calcium	44-1	500286.56	493760.29	503768.84	499271.90	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.73	1.40	1.33	1.49	14.23	ppb
Cobalt	59-2	2.84	2.75	2.79	2.79	1.57	ppb
Copper	63-2	2.07	2.02	2.06	2.05	1.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				94		%
Indium	115-1				84		%
Indium	115-2				85		%
Iron	56-2	248513.28	249491.59	249888.43	249297.77	0.28	ppb
Iron	57-2	247007.58	249252.23	251627.32	249295.71	0.93	ppb
Iron	54-2	248220.73	249183.10	250142.74	249182.19	0.39	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:39:44 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.55	1.48	1.49	1.51	2.62	ppb
Lead	207-1	1.53	1.40	1.45	1.46	4.55	ppb
Lead	208-1	1.54	1.45	1.48	1.49	3.37	ppb
Lithium	6-1				114		%
Magnesium	24-2	497556.79	499359.10	503680.76	500198.88	0.63	ppb
Manganese	55-2	4.67	4.74	4.74	4.71	0.80	ppb
Molybdenum	94-1	2.36	2.27	2.28	2.30	2.11	ppb
Molybdenum	95-1	1.52	1.47	1.47	1.49	1.70	ppb
Molybdenum	96-1	3.11	3.09	3.00	3.06	1.97	ppb
Molybdenum	97-1	1.53	1.37	1.40	1.43	5.76	ppb
Molybdenum	98-1	1.42	1.27	1.32	1.34	5.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.88	4.64	4.80	4.77	2.59	ppb
Phosphorus	31-2	-5.53	-3.10	-3.14	-3.92		ppb
Potassium	39-2	249607.10	249870.39	251555.53	250344.34	0.42	ppb
Rhodium	103-1				79		%
Rhodium	103-2				79		%
Scandium	45-1				91		%
Scandium	45-2				86		%
Selenium	82-1	1.22	0.78	0.85	0.95	25.10	ppb
Selenium	77-2	0.00	0.20	0.20	0.13	86.60	ppb
Selenium	78-2	-0.38	0.06	-0.69	-0.34		ppb
Silicon	28-1	-2.60	-3.47	-4.42	-3.50		ppb
Silver	107-1	0.22	0.21	0.19	0.20	7.74	ppb
Silver	109-1	0.21	0.19	0.18	0.19	10.01	ppb
Sodium	23-2	498674.28	496088.75	504065.92	499609.65	0.81	ppb
Strontium	86-1	76.49	76.74	73.88	75.70	2.09	ppb
Strontium	88-1	73.36	74.13	72.51	73.33	1.10	ppb
Sulfur	34-1	-590.38	-521.62	-372.11	-494.71		ppb
Terbium	159-1				91		%
Terbium	159-2				93		%
Thallium	203-1	0.18	0.17	0.16	0.17	7.62	ppb
Thallium	205-1	0.18	0.16	0.15	0.16	10.96	ppb
Tin	118-1	0.24	0.23	0.23	0.23	3.47	ppb
Titanium	47-1	1.24	1.15	1.27	1.22	4.92	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:39:44 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.09	0.08	0.08	0.08	9.12	ppb
Vanadium	51-2	0.22	0.23	0.20	0.22	7.28	ppb
Yttrium	89-1				89		%
Yttrium	89-2				86		%
Zinc	66-2	13.05	13.95	13.83	13.61	3.56	ppb
Zirconium	90-1	0.58	0.57	0.56	0.57	1.66	ppb
Zirconium	91-1	0.60	0.57	0.60	0.59	2.45	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:05:23 DataFile Name : 016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	478.93	476.79	476.96	477.56	0.25	ppb
Antimony	121-1	199.43	205.42	211.06	205.30	2.83	ppb
Arsenic	75-2	211.65	215.54	210.00	212.40	1.34	ppb
Barium	135-1	95.88	100.27	100.27	98.80	2.56	ppb
Barium	137-1	96.14	100.23	100.31	98.89	2.41	ppb
Beryllium	9-1	100.69	106.21	108.85	105.25	3.96	ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	90.26	94.98	93.59	92.94	2.61	ppb
Cadmium	106-1	80.07	86.76	87.95	84.93	5.00	ppb
Cadmium	111-1	100.00	106.01	106.22	104.08	3.39	ppb
Calcium	43-1	1953.03	2091.95	2119.95	2054.98	4.35	ppb
Calcium	44-1	1954.01	2077.59	2106.83	2046.14	3.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	104.33	104.27	102.50	103.70	1.01	ppb
Cobalt	59-2	105.02	104.15	103.51	104.23	0.73	ppb
Copper	63-2	100.09	99.28	98.80	99.39	0.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	56-2	2142.33	2133.69	2101.18	2125.73	1.02	ppb
Iron	57-2	2168.98	2158.12	2139.45	2155.52	0.69	ppb
Iron	54-2	2241.92	2234.41	2217.46	2231.26	0.56	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:05:23 DataFile Name : 016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	185.48	194.69	194.40	191.52	2.73	ppb
Lead	207-1	173.53	183.55	181.88	179.65	2.99	ppb
Lead	208-1	184.21	192.72	193.51	190.15	2.71	ppb
Lithium	6-1				116		%
Magnesium	24-2	1189.75	1174.02	1178.57	1180.78	0.69	ppb
Manganese	55-2	101.93	101.07	100.53	101.18	0.69	ppb
Molybdenum	94-1	0.05	0.02	0.04	0.04	44.47	ppb
Molybdenum	95-1	0.00	0.02	0.03	0.02	99.15	ppb
Molybdenum	96-1	0.03	0.05	0.06	0.05	24.10	ppb
Molybdenum	97-1	0.01	0.02	0.01	0.01	25.11	ppb
Molybdenum	98-1	0.02	0.02	0.03	0.02	22.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	108.96	108.30	109.20	108.82	0.43	ppb
Phosphorus	31-2	-25.35	-16.39	-25.82	-22.52		ppb
Potassium	39-2	2002.61	1992.20	1987.63	1994.15	0.38	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				92		%
Selenium	82-1	204.72	216.33	220.38	213.81	3.80	ppb
Selenium	77-2	214.80	224.14	226.64	221.86	2.81	ppb
Selenium	78-2	222.88	228.32	215.81	222.34	2.82	ppb
Silicon	28-1	-5.59	-5.10	-4.73	-5.14		ppb
Silver	107-1	48.13	50.80	50.85	49.93	3.12	ppb
Silver	109-1	47.63	50.24	50.50	49.46	3.21	ppb
Sodium	23-2	2009.43	1996.06	1974.85	1993.45	0.87	ppb
Strontium	86-1	5.17	5.73	5.85	5.59	6.52	ppb
Strontium	88-1	5.87	5.95	6.38	6.07	4.55	ppb
Sulfur	34-1	-346.37	-167.99	-70.34	-194.90		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	192.21	201.12	196.48	196.60	2.27	ppb
Thallium	205-1	188.25	199.35	196.75	194.78	2.98	ppb
Tin	118-1	0.04	0.03	0.05	0.04	31.05	ppb
Titanium	47-1	0.02	0.03	0.85	0.30	158.72	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:05:23 DataFile Name : 016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	100.05	99.76	98.88	99.56	0.61	ppb
Yttrium	89-1				100		%
Yttrium	89-2				95		%
Zinc	66-2	205.34	200.42	201.25	202.34	1.30	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	38.09	ppb
Zirconium	91-1	0.05	0.09	0.06	0.07	26.33	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:24:39 DataFile Name : 021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.06	-0.12	-0.16	-0.07		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	23.49	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	0.01	0.01	-0.01	0.00	310.46	ppb
Barium	137-1	0.01	0.00	0.00	0.00	296.76	ppb
Beryllium	9-1	0.03	0.01	0.01	0.02	60.14	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.09	0.12	0.01	0.07	82.89	ppb
Cadmium	106-1	-3.98	-4.58	-4.05	-4.20		ppb
Cadmium	111-1	-0.05	-0.06	-0.04	-0.05		ppb
Calcium	43-1	-2.33	-1.02	0.19	-1.05		ppb
Calcium	44-1	0.88	0.27	0.02	0.39	113.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.04	0.03	0.03	53.86	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.03	-0.02	0.02	-0.01		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	0.08	0.08	0.14	0.10	31.74	ppb
Iron	57-2	-1.48	-1.44	-1.23	-1.38		ppb
Iron	54-2	-0.13	0.07	-0.78	-0.28		ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:24:39 DataFile Name : 021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.01	0.00	0.01	23.51	ppb
Lead	207-1	0.01	0.00	0.00	0.01	85.45	ppb
Lead	208-1	0.01	0.01	0.01	0.01	8.71	ppb
Lithium	6-1				112		%
Magnesium	24-2	0.19	0.09	-0.16	0.04	482.80	ppb
Manganese	55-2	0.02	-0.01	0.02	0.01	140.16	ppb
Molybdenum	94-1	-0.01	0.00	0.00	0.00		ppb
Molybdenum	95-1	-0.02	0.00	-0.01	-0.01		ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	19.77	ppb
Molybdenum	97-1	-0.01	-0.02	-0.02	-0.02		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.02	0.02	0.00		ppb
Phosphorus	31-2	-19.69	-16.60	-24.70	-20.33		ppb
Potassium	39-2	-1.18	-0.03	-1.03	-0.75		ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				96		%
Selenium	82-1	-0.65	0.13	0.16	-0.12		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.25	0.59	-0.15	0.06	721.76	ppb
Silicon	28-1	-3.83	-3.63	-3.62	-3.69		ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.98	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.70	ppb
Sodium	23-2	6.42	7.18	7.47	7.02	7.73	ppb
Strontium	86-1	-0.31	-0.29	-0.50	-0.37		ppb
Strontium	88-1	0.06	0.06	0.07	0.06	9.83	ppb
Sulfur	34-1	37.07	58.17	0.52	31.92	91.37	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.00	0.00	0.00	97.80	ppb
Thallium	205-1	0.01	0.00	0.00	0.00	80.07	ppb
Tin	118-1	0.03	0.03	0.02	0.03	4.48	ppb
Titanium	47-1	0.02	0.01	0.00	0.01	94.93	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:24:39 DataFile Name : 021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.01	0.00	0.00	0.00	108.80	ppb
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	0.15	0.24	0.13	0.18	33.84	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	193.51	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	72.85	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:27:54 DataFile Name : 022ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	91010.56	90936.87	90597.77	90848.40	0.24	ppb
Antimony	121-1	1.10	1.14	1.12	1.12	1.58	ppb
Arsenic	75-2	0.26	0.29	0.32	0.29	10.47	ppb
Barium	135-1	1.41	1.41	1.45	1.42	1.59	ppb
Barium	137-1	1.33	1.36	1.34	1.34	1.00	ppb
Beryllium	9-1	0.33	0.34	0.28	0.32	10.71	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	10.11	9.40	8.49	9.33	8.71	ppb
Cadmium	106-1	-8.63	-9.54	-10.61	-9.59		ppb
Cadmium	111-1	0.36	0.30	0.27	0.31	15.37	ppb
Calcium	43-1	101684.75	102774.28	102860.70	102439.91	0.64	ppb
Calcium	44-1	100373.75	101773.38	102084.54	101410.56	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.44	20.50	20.63	20.53	0.48	ppb
Cobalt	59-2	1.33	1.29	1.35	1.32	2.03	ppb
Copper	63-2	7.49	7.53	7.43	7.48	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				102		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	56-2	106781.82	106602.11	106378.60	106587.51	0.19	ppb
Iron	57-2	106723.34	106016.80	106054.95	106265.03	0.37	ppb
Iron	54-2	107331.91	106902.54	106237.87	106824.11	0.52	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:27:54 DataFile Name : 022ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5.26	4.95	4.93	5.05	3.70	ppb
Lead	207-1	4.80	4.40	4.33	4.51	5.66	ppb
Lead	208-1	4.98	4.65	4.55	4.73	4.73	ppb
Lithium	6-1				113		%
Magnesium	24-2	100068.05	99724.55	99220.75	99671.12	0.43	ppb
Manganese	55-2	8.12	8.16	8.13	8.14	0.26	ppb
Molybdenum	94-1	1587.28	1613.67	1622.45	1607.80	1.14	ppb
Molybdenum	95-1	1929.25	1983.16	1983.91	1965.44	1.59	ppb
Molybdenum	96-1	1885.77	1935.16	1959.21	1926.71	1.94	ppb
Molybdenum	97-1	1920.65	1978.00	1971.31	1956.65	1.60	ppb
Molybdenum	98-1	1929.16	1990.58	1982.00	1967.25	1.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.38	5.73	5.60	5.57	3.23	ppb
Phosphorus	31-2	103220.41	103381.98	102641.63	103081.34	0.38	ppb
Potassium	39-2	97821.28	98090.29	97765.66	97892.41	0.18	ppb
Rhodium	103-1				89		%
Rhodium	103-2				88		%
Scandium	45-1				92		%
Scandium	45-2				85		%
Selenium	82-1	0.27	0.23	0.17	0.22	22.06	ppb
Selenium	77-2	0.38	0.00	0.19	0.19	100.21	ppb
Selenium	78-2	-0.94	-0.01	-1.24	-0.73		ppb
Silicon	28-1	-5.18	-5.40	-5.71	-5.43		ppb
Silver	107-1	0.04	0.03	0.03	0.04	19.62	ppb
Silver	109-1	0.05	0.03	0.03	0.04	29.17	ppb
Sodium	23-2	101550.79	101018.74	100123.89	100897.81	0.71	ppb
Strontium	86-1	830.27	837.52	848.26	838.68	1.08	ppb
Strontium	88-1	834.68	853.82	860.31	849.61	1.57	ppb
Sulfur	34-1	107742.10	106795.64	106612.07	107049.94	0.57	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.17	0.16	0.17	0.17	2.50	ppb
Thallium	205-1	0.17	0.16	0.16	0.16	4.84	ppb
Tin	118-1	0.27	0.26	0.19	0.24	16.35	ppb
Titanium	47-1	2039.60	2038.13	2052.02	2043.25	0.37	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:27:54 DataFile Name : 022ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.01	0.02	5.72	ppb
Vanadium	51-2	0.22	0.23	0.22	0.22	2.08	ppb
Yttrium	89-1				96		%
Yttrium	89-2				90		%
Zinc	66-2	11.15	11.11	11.51	11.25	1.94	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	38.38	ppb
Zirconium	91-1	0.01	0.01	0.02	0.01	32.17	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:31:33 DataFile Name : 023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90473.51	89134.10	89345.07	89650.90	0.80	ppb
Antimony	121-1	20.72	21.05	21.06	20.94	0.93	ppb
Arsenic	75-2	20.79	21.20	20.81	20.93	1.10	ppb
Barium	135-1	20.78	21.01	21.21	21.00	1.01	ppb
Barium	137-1	20.56	20.96	20.99	20.84	1.16	ppb
Beryllium	9-1	20.52	20.54	20.13	20.39	1.14	ppb
Bismuth	209-1				105		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	25.51	26.02	25.38	25.64	1.32	ppb
Cadmium	106-1	7.02	7.14	6.48	6.88	5.12	ppb
Cadmium	111-1	19.63	19.48	19.97	19.69	1.26	ppb
Calcium	43-1	100636.30	103249.11	103416.95	102434.12	1.52	ppb
Calcium	44-1	101424.93	102361.47	101838.10	101874.83	0.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.42	40.36	40.20	40.33	0.28	ppb
Cobalt	59-2	21.61	21.60	21.58	21.60	0.09	ppb
Copper	63-2	26.12	26.23	26.29	26.21	0.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	56-2	105868.52	105264.95	105604.85	105579.44	0.29	ppb
Iron	57-2	104458.03	104106.30	105775.02	104779.78	0.84	ppb
Iron	54-2	105203.07	104642.35	104727.19	104857.54	0.29	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:31:33 DataFile Name : 023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24.92	25.13	24.50	24.85	1.29	ppb
Lead	207-1	23.27	23.51	22.88	23.22	1.38	ppb
Lead	208-1	23.79	24.16	23.54	23.83	1.31	ppb
Lithium	6-1				111		%
Magnesium	24-2	97763.56	97582.32	98214.21	97853.36	0.33	ppb
Manganese	55-2	28.06	28.25	27.89	28.07	0.64	ppb
Molybdenum	94-1	1594.60	1612.52	1610.70	1605.94	0.61	ppb
Molybdenum	95-1	1953.28	1982.00	1974.74	1970.01	0.76	ppb
Molybdenum	96-1	1899.45	1941.80	1945.88	1929.04	1.33	ppb
Molybdenum	97-1	1950.62	1956.31	1980.57	1962.50	0.81	ppb
Molybdenum	98-1	1944.87	1987.68	1973.44	1968.66	1.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.82	26.09	25.70	25.87	0.79	ppb
Phosphorus	31-2	102291.78	101898.65	102059.91	102083.45	0.19	ppb
Potassium	39-2	95942.91	97011.69	96645.18	96533.26	0.56	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				85		%
Selenium	82-1	20.17	20.67	20.51	20.45	1.25	ppb
Selenium	77-2	23.00	20.02	18.91	20.64	10.26	ppb
Selenium	78-2	20.15	20.49	20.90	20.51	1.82	ppb
Silicon	28-1	-5.35	-4.93	-5.32	-5.20		ppb
Silver	107-1	18.65	18.88	19.05	18.86	1.07	ppb
Silver	109-1	18.31	18.84	18.84	18.66	1.62	ppb
Sodium	23-2	99020.35	98932.02	98944.25	98965.54	0.05	ppb
Strontium	86-1	842.54	851.76	847.74	847.35	0.55	ppb
Strontium	88-1	853.51	861.86	863.89	859.75	0.64	ppb
Sulfur	34-1	103896.73	107426.14	106650.24	105991.04	1.75	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	19.74	20.22	19.59	19.85	1.66	ppb
Thallium	205-1	19.62	20.06	19.60	19.76	1.30	ppb
Tin	118-1	0.16	0.16	0.17	0.16	5.20	ppb
Titanium	47-1	2022.35	2025.52	2039.66	2029.18	0.45	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:31:33 DataFile Name : 023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.01	0.01	0.01	12.87	ppb
Vanadium	51-2	19.98	19.93	20.24	20.05	0.82	ppb
Yttrium	89-1				97		%
Yttrium	89-2				90		%
Zinc	66-2	31.53	31.74	31.56	31.61	0.36	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	19.11	ppb
Zirconium	91-1	0.03	0.02	0.03	0.02	21.69	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:34:34 DataFile Name : 024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48553.25	48572.46	49359.57	48828.42	0.94	ppb
Antimony	121-1	472.42	485.35	482.96	480.24	1.43	ppb
Arsenic	75-2	476.15	474.69	482.19	477.68	0.83	ppb
Barium	135-1	2390.21	2479.46	2443.11	2437.59	1.84	ppb
Barium	137-1	2363.43	2464.87	2437.02	2421.77	2.16	ppb
Beryllium	9-1	453.90	475.99	480.42	470.10	3.02	ppb
Bismuth	209-1				100		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	460.30	469.58	476.24	468.70	1.71	ppb
Cadmium	106-1	451.97	472.87	471.68	465.51	2.52	ppb
Cadmium	111-1	447.56	458.15	458.53	454.75	1.37	ppb
Calcium	43-1	244892.29	256175.45	252400.99	251156.24	2.29	ppb
Calcium	44-1	244440.20	255301.69	252870.04	250870.64	2.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	485.56	489.34	490.75	488.55	0.55	ppb
Cobalt	59-2	473.02	473.76	480.04	475.61	0.81	ppb
Copper	63-2	4660.17	4652.23	4635.98	4649.46	0.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				99		%
Indium	115-1				91		%
Indium	115-2				87		%
Iron	56-2	126989.32	126684.13	127611.63	127095.03	0.37	ppb
Iron	57-2	126513.69	126067.54	126705.68	126428.97	0.26	ppb
Iron	54-2	126436.53	126914.64	127380.28	126910.48	0.37	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:34:34 DataFile Name : 024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2436.53	2523.21	2527.45	2495.73	2.06	ppb
Lead	207-1	2404.96	2536.60	2533.48	2491.68	3.01	ppb
Lead	208-1	2419.54	2522.24	2522.25	2488.01	2.38	ppb
Lithium	6-1				109		%
Magnesium	24-2	244577.08	245218.14	247182.58	245659.27	0.55	ppb
Manganese	55-2	4812.73	4804.14	4812.83	4809.90	0.10	ppb
Molybdenum	94-1	4774.97	4974.73	4914.97	4888.22	2.10	ppb
Molybdenum	95-1	4773.26	4961.82	4912.01	4882.36	2.00	ppb
Molybdenum	96-1	4781.78	4954.30	4890.08	4875.38	1.79	ppb
Molybdenum	97-1	4778.59	4966.75	4868.73	4871.36	1.93	ppb
Molybdenum	98-1	4717.55	5008.85	4865.44	4863.94	2.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	470.65	465.59	470.28	468.84	0.60	ppb
Phosphorus	31-2	9810.64	9845.79	9809.39	9821.94	0.21	ppb
Potassium	39-2	120823.12	120219.79	121801.65	120948.18	0.66	ppb
Rhodium	103-1				86		%
Rhodium	103-2				84		%
Scandium	45-1				90		%
Scandium	45-2				85		%
Selenium	82-1	461.73	476.98	466.84	468.52	1.66	ppb
Selenium	77-2	476.70	474.83	494.95	482.16	2.31	ppb
Selenium	78-2	461.07	474.77	474.79	470.21	1.68	ppb
Silicon	28-1	554.80	574.81	574.48	568.03	2.02	ppb
Silver	107-1	466.24	472.78	475.23	471.42	0.99	ppb
Silver	109-1	461.73	474.91	472.03	469.56	1.48	ppb
Sodium	23-2	243930.63	245152.00	245723.06	244935.23	0.37	ppb
Strontium	86-1	11852.76	12379.94	12121.41	12118.04	2.18	ppb
Strontium	88-1	12030.48	12471.21	12348.71	12283.46	1.85	ppb
Sulfur	34-1	9092.85	9373.37	9358.25	9274.82	1.70	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	483.81	514.20	497.65	498.55	3.05	ppb
Thallium	205-1	489.92	506.56	497.98	498.16	1.67	ppb
Tin	118-1	471.42	485.16	483.28	479.95	1.55	ppb
Titanium	47-1	4817.32	4901.55	4959.13	4892.67	1.46	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:34:34 DataFile Name : 024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	488.35	507.30	505.25	500.30	2.08	ppb
Vanadium	51-2	481.50	484.23	488.64	484.79	0.74	ppb
Yttrium	89-1				94		%
Yttrium	89-2				88		%
Zinc	66-2	4562.51	4595.48	4623.10	4593.70	0.66	ppb
Zirconium	90-1	477.94	492.49	489.58	486.67	1.58	ppb
Zirconium	91-1	477.50	495.31	490.18	487.66	1.88	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:41:15 DataFile Name : 026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.83	1.76	1.62	1.74	6.07	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	6.19	ppb
Arsenic	75-2	-0.01	0.02	0.01	0.01	328.30	ppb
Barium	135-1	0.06	0.02	0.03	0.04	58.12	ppb
Barium	137-1	0.05	0.03	0.03	0.04	31.18	ppb
Beryllium	9-1	0.02	0.05	0.01	0.03	74.38	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.01	0.06	0.04	0.03	139.98	ppb
Cadmium	106-1	-8.30	-9.48	-7.73	-8.50		ppb
Cadmium	111-1	-0.08	-0.11	-0.08	-0.09		ppb
Calcium	43-1	3.53	2.77	2.20	2.83	23.69	ppb
Calcium	44-1	6.68	4.68	3.29	4.88	34.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.10	0.06	0.08	32.28	ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	0.23	0.25	0.26	0.25	5.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	56-2	3.47	3.37	3.31	3.38	2.39	ppb
Iron	57-2	-0.99	1.37	1.37	0.59	232.12	ppb
Iron	54-2	3.59	3.05	3.25	3.29	8.26	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:41:15 DataFile Name : 026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.08	0.08	0.08	0.08	2.48	ppb
Lead	207-1	0.09	0.08	0.07	0.08	8.85	ppb
Lead	208-1	0.09	0.08	0.07	0.08	7.42	ppb
Lithium	6-1				113		%
Magnesium	24-2	3.43	3.32	3.40	3.38	1.62	ppb
Manganese	55-2	0.12	0.12	0.11	0.11	5.01	ppb
Molybdenum	94-1	0.31	0.12	0.12	0.18	59.44	ppb
Molybdenum	95-1	0.39	0.09	0.10	0.19	88.20	ppb
Molybdenum	96-1	0.30	0.11	0.12	0.18	59.99	ppb
Molybdenum	97-1	0.21	0.08	0.09	0.12	57.83	ppb
Molybdenum	98-1	0.21	0.10	0.10	0.13	47.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.05	0.01	0.02	115.87	ppb
Phosphorus	31-2	-22.36	-23.87	-20.40	-22.21		ppb
Potassium	39-2	-2.80	-3.01	-0.63	-2.15		ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				89		%
Selenium	82-1	0.06	-0.33	0.18	-0.03		ppb
Selenium	77-2	0.18	0.00	0.00	0.06	173.21	ppb
Selenium	78-2	-1.55	-0.24	0.23	-0.52		ppb
Silicon	28-1	-5.88	-6.10	-5.70	-5.89		ppb
Silver	107-1	0.02	0.01	0.02	0.02	16.78	ppb
Silver	109-1	0.02	0.02	0.01	0.02	23.54	ppb
Sodium	23-2	35.52	34.38	34.17	34.69	2.09	ppb
Strontium	86-1	0.26	0.07	0.50	0.28	78.88	ppb
Strontium	88-1	0.67	0.21	0.20	0.36	74.07	ppb
Sulfur	34-1	-455.63	-510.76	-411.82	-459.41		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.06	0.05	0.06	0.06	7.33	ppb
Thallium	205-1	0.06	0.05	0.06	0.06	6.96	ppb
Tin	118-1	0.05	0.05	0.06	0.05	15.26	ppb
Titanium	47-1	0.28	0.09	0.10	0.16	68.90	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:41:15 DataFile Name : 026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	11.34	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	8.34	ppb
Yttrium	89-1				98		%
Yttrium	89-2				92		%
Zinc	66-2	0.25	0.12	0.17	0.18	37.08	ppb
Zirconium	90-1	0.03	0.00	0.01	0.01	127.01	ppb
Zirconium	91-1	0.04	0.02	0.02	0.03	45.36	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BL Instrumnet Name : P7
Client Sample ID : PBS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:58:02 DataFile Name : 030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.24	0.21	0.30	0.25	17.54	ppb
Antimony	121-1	0.01	0.01	0.00	0.01	19.72	ppb
Arsenic	75-2	-0.01	-0.02	-0.02	-0.02		ppb
Barium	135-1	0.00	0.00	-0.01	0.00		ppb
Barium	137-1	0.00	0.00	0.01	0.00	173.79	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	11.77	ppb
Bismuth	209-1				108		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	-0.02	0.05	0.02	173.59	ppb
Cadmium	106-1	-6.74	-6.61	-7.30	-6.88		ppb
Cadmium	111-1	-0.08	-0.08	-0.09	-0.08		ppb
Calcium	43-1	-3.33	-2.77	-1.95	-2.69		ppb
Calcium	44-1	-2.25	-2.79	-3.07	-2.71		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.04	0.00	-0.01	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.03	-0.02	-0.03	-0.03		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	56-2	0.06	-0.03	0.05	0.03	168.78	ppb
Iron	57-2	-0.75	-1.41	-1.88	-1.34		ppb
Iron	54-2	-0.49	0.69	0.00	0.07	881.00	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BL Instrumnet Name : P7
Client Sample ID : PBS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:58:02 DataFile Name : 030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.01	0.01	0.01	41.12	ppb
Lead	207-1	0.01	0.01	0.01	0.01	31.51	ppb
Lead	208-1	0.01	0.01	0.01	0.01	11.64	ppb
Lithium	6-1				110		%
Magnesium	24-2	0.33	0.24	0.52	0.36	38.92	ppb
Manganese	55-2	-0.02	0.00	-0.02	-0.01		ppb
Molybdenum	94-1	0.02	-0.01	-0.01	0.00	1460.50	ppb
Molybdenum	95-1	-0.02	-0.01	0.01	0.00		ppb
Molybdenum	96-1	0.01	0.00	0.01	0.01	80.49	ppb
Molybdenum	97-1	0.01	-0.02	-0.01	-0.01		ppb
Molybdenum	98-1	0.00	0.00	0.01	0.00	35.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.01	-0.01	-0.01		ppb
Phosphorus	31-2	-20.47	-26.54	-21.75	-22.92		ppb
Potassium	39-2	-2.06	-0.57	-2.17	-1.60		ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				94		%
Selenium	82-1	0.48	-0.26	-0.02	0.07	543.91	ppb
Selenium	77-2	0.00	0.35	0.00	0.12	173.21	ppb
Selenium	78-2	0.25	-0.39	-0.82	-0.32		ppb
Silicon	28-1	-4.97	-5.14	-4.88	-5.00		ppb
Silver	107-1	0.01	0.01	0.01	0.01	7.58	ppb
Silver	109-1	0.01	0.00	0.00	0.00	54.75	ppb
Sodium	23-2	10.47	11.92	11.56	11.32	6.65	ppb
Strontium	86-1	-0.09	-0.19	0.46	0.06	613.99	ppb
Strontium	88-1	-0.04	0.02	0.00	-0.01		ppb
Sulfur	34-1	-147.77	-196.21	-135.40	-159.79		ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.03	0.03	0.03	7.81	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	11.02	ppb
Tin	118-1	0.00	-0.01	0.00	0.00		ppb
Titanium	47-1	0.00	0.01	-0.04	-0.01		ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BL Instrumnet Name : P7
Client Sample ID : PBS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:58:02 DataFile Name : 030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.01	0.00	0.00	0.00	97.06	ppb
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	0.06	0.08	0.09	0.08	21.56	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	122.99	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BS Instrumnet Name : P7
Client Sample ID : LCS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:01:16 DataFile Name : 031LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9973.61	9938.46	9969.30	9960.46	0.19	ppb
Antimony	121-1	514.85	490.58	587.60	531.01	9.51	ppb
Arsenic	75-2	505.89	500.25	505.27	503.80	0.61	ppb
Barium	135-1	2614.61	2467.24	2912.17	2664.68	8.51	ppb
Barium	137-1	2592.11	2484.30	2940.87	2672.42	8.93	ppb
Beryllium	9-1	505.19	496.79	620.75	540.91	12.81	ppb
Bismuth	209-1				99		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	526.28	497.11	593.78	539.06	9.20	ppb
Cadmium	106-1	529.14	493.96	591.06	538.05	9.14	ppb
Cadmium	111-1	511.41	487.25	572.68	523.78	8.41	ppb
Calcium	43-1	55085.15	51246.29	60937.22	55756.22	8.75	ppb
Calcium	44-1	52967.32	50819.68	60068.39	54618.46	8.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.50	501.19	502.32	504.67	1.01	ppb
Cobalt	59-2	515.14	512.82	514.76	514.24	0.24	ppb
Copper	63-2	5158.77	5127.68	5121.28	5135.91	0.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				101		%
Indium	115-1				89		%
Indium	115-2				89		%
Iron	56-2	26758.70	26396.07	26669.92	26608.23	0.71	ppb
Iron	57-2	26660.13	26374.76	26897.40	26644.10	0.98	ppb
Iron	54-2	26727.26	26671.35	26990.40	26796.34	0.64	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BS Instrumnet Name : P7
Client Sample ID : LCS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:01:16 DataFile Name : 031LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2586.94	2503.26	2974.10	2688.10	9.34	ppb
Lead	207-1	2584.86	2495.12	2960.89	2680.29	9.22	ppb
Lead	208-1	2571.58	2489.37	2959.27	2673.40	9.39	ppb
Lithium	6-1				105		%
Magnesium	24-2	50956.74	49761.58	50164.74	50294.35	1.21	ppb
Manganese	55-2	5078.68	4998.89	5026.42	5034.66	0.81	ppb
Molybdenum	94-1	5166.79	4990.97	5829.83	5329.20	8.30	ppb
Molybdenum	95-1	5154.29	5025.99	5813.55	5331.28	7.93	ppb
Molybdenum	96-1	5152.70	5014.28	5832.51	5333.16	8.21	ppb
Molybdenum	97-1	5124.86	4944.56	5825.73	5298.38	8.79	ppb
Molybdenum	98-1	5212.04	4957.35	5816.34	5328.58	8.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	514.52	509.01	507.28	510.27	0.74	ppb
Phosphorus	31-2	10217.57	10053.25	10027.69	10099.50	1.02	ppb
Potassium	39-2	24972.57	24430.32	24608.59	24670.49	1.12	ppb
Rhodium	103-1				87		%
Rhodium	103-2				88		%
Scandium	45-1				88		%
Scandium	45-2				83		%
Selenium	82-1	522.65	501.37	592.91	538.98	8.89	ppb
Selenium	77-2	486.37	493.95	503.98	494.77	1.79	ppb
Selenium	78-2	516.71	505.07	514.36	512.05	1.20	ppb
Silicon	28-1	635.20	598.24	710.78	648.07	8.85	ppb
Silver	107-1	535.60	508.48	596.26	546.78	8.22	ppb
Silver	109-1	532.77	498.19	593.49	541.48	8.91	ppb
Sodium	23-2	51991.76	51311.17	51460.15	51587.69	0.69	ppb
Strontium	86-1	12908.90	12439.35	14592.44	13313.57	8.50	ppb
Strontium	88-1	12908.25	12384.66	14684.70	13325.87	9.05	ppb
Sulfur	34-1	10755.48	10086.17	12624.91	11155.52	11.80	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	518.17	487.94	594.31	533.47	10.27	ppb
Thallium	205-1	523.09	486.33	589.39	532.93	9.80	ppb
Tin	118-1	527.61	494.16	583.21	535.00	8.41	ppb
Titanium	47-1	5126.59	4949.25	5789.40	5288.41	8.37	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BS Instrumnet Name : P7
Client Sample ID : LCS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:01:16 DataFile Name : 031LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	492.29	472.75	575.04	513.36	10.58	ppb
Vanadium	51-2	508.12	505.62	503.23	505.65	0.48	ppb
Yttrium	89-1				91		%
Yttrium	89-2				87		%
Zinc	66-2	5204.06	5090.38	5112.77	5135.74	1.17	ppb
Zirconium	90-1	514.42	492.67	586.79	531.29	9.27	ppb
Zirconium	91-1	514.13	492.05	589.97	532.05	9.65	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:03:56 DataFile Name : 032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9475.98	9625.32	9499.67	9533.66	0.84	ppb
Antimony	121-1	0.19	0.17	0.17	0.18	7.36	ppb
Arsenic	75-2	3.68	3.82	3.83	3.77	2.24	ppb
Barium	135-1	44.51	44.87	45.19	44.85	0.76	ppb
Barium	137-1	45.29	44.71	46.12	45.37	1.56	ppb
Beryllium	9-1	0.79	0.68	0.71	0.73	7.90	ppb
Bismuth	209-1				111		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.66	0.48	0.78	0.64	23.12	ppb
Cadmium	106-1	-9.99	-9.34	-6.22	-8.52		ppb
Cadmium	111-1	-0.06	-0.05	-0.05	-0.05		ppb
Calcium	43-1	709.01	722.21	728.14	719.79	1.36	ppb
Calcium	44-1	710.91	709.79	716.84	712.51	0.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.09	21.89	22.09	22.02	0.53	ppb
Cobalt	59-2	8.23	8.21	8.24	8.23	0.14	ppb
Copper	63-2	13.00	13.02	12.82	12.95	0.86	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	56-2	22423.27	22334.45	22141.18	22299.63	0.65	ppb
Iron	57-2	22172.53	22217.58	21998.19	22129.43	0.52	ppb
Iron	54-2	22288.62	22485.07	22146.37	22306.69	0.76	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:03:56 DataFile Name : 032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.72	7.48	7.72	7.64	1.83	ppb
Lead	207-1	7.12	6.86	7.10	7.03	2.10	ppb
Lead	208-1	7.37	7.17	7.38	7.31	1.64	ppb
Lithium	6-1				117		%
Magnesium	24-2	2080.42	2081.82	2073.64	2078.63	0.21	ppb
Manganese	55-2	263.67	263.28	262.08	263.01	0.32	ppb
Molybdenum	94-1	11.05	10.99	10.78	10.94	1.30	ppb
Molybdenum	95-1	1.15	1.06	1.04	1.08	5.32	ppb
Molybdenum	96-1	2.42	2.26	2.29	2.32	3.61	ppb
Molybdenum	97-1	1.17	1.13	1.05	1.12	5.85	ppb
Molybdenum	98-1	1.21	1.07	1.03	1.10	8.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.38	10.45	10.54	10.46	0.77	ppb
Phosphorus	31-2	247.59	233.60	249.62	243.61	3.58	ppb
Potassium	39-2	1811.83	1831.94	1818.84	1820.87	0.56	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				90		%
Selenium	82-1	0.03	0.01	-0.01	0.01	157.53	ppb
Selenium	77-2	5.09	4.12	2.99	4.07	25.81	ppb
Selenium	78-2	0.50	1.25	0.68	0.81	47.88	ppb
Silicon	28-1	25.51	17.69	18.53	20.57	20.87	ppb
Silver	107-1	0.13	0.10	0.09	0.11	15.53	ppb
Silver	109-1	0.13	0.09	0.08	0.10	25.05	ppb
Sodium	23-2	98.59	96.24	95.88	96.90	1.52	ppb
Strontium	86-1	76.95	75.91	78.57	77.15	1.74	ppb
Strontium	88-1	78.34	77.56	78.26	78.05	0.55	ppb
Sulfur	34-1	-634.13	-686.64	-658.17	-659.65		ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.25	0.24	0.23	0.24	4.33	ppb
Thallium	205-1	0.25	0.23	0.23	0.24	6.19	ppb
Tin	118-1	0.24	0.24	0.22	0.23	5.60	ppb
Titanium	47-1	414.11	414.26	411.45	413.27	0.38	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:03:56 DataFile Name : 032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.19	1.17	1.23	1.20	2.68	ppb
Vanadium	51-2	33.44	33.35	33.54	33.44	0.28	ppb
Yttrium	89-1				99		%
Yttrium	89-2				95		%
Zinc	66-2	27.58	27.03	27.47	27.36	1.08	ppb
Zirconium	90-1	5.42	5.43	5.54	5.47	1.26	ppb
Zirconium	91-1	5.46	5.43	5.54	5.48	1.02	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DUPDLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:07:07 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9520.29	9368.95	9502.94	9464.06	0.88	ppb
Antimony	121-1	0.06	0.05	0.04	0.05	18.46	ppb
Arsenic	75-2	4.01	3.93	3.71	3.89	3.96	ppb
Barium	135-1	47.81	45.64	45.24	46.23	2.99	ppb
Barium	137-1	47.90	45.56	45.14	46.20	3.21	ppb
Beryllium	9-1	0.75	0.61	0.72	0.69	10.60	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.61	0.31	0.61	0.51	33.52	ppb
Cadmium	106-1	-8.17	-7.74	-8.13	-8.01		ppb
Cadmium	111-1	-0.10	-0.08	-0.11	-0.10		ppb
Calcium	43-1	733.26	706.82	730.67	723.58	2.01	ppb
Calcium	44-1	731.35	701.48	716.50	716.44	2.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.00	22.23	21.96	22.06	0.68	ppb
Cobalt	59-2	8.14	8.25	8.24	8.21	0.80	ppb
Copper	63-2	12.69	12.71	12.65	12.68	0.23	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	56-2	22414.88	22453.20	22294.55	22387.54	0.37	ppb
Iron	57-2	22158.16	22375.79	22109.06	22214.34	0.64	ppb
Iron	54-2	22229.21	22390.02	21860.31	22159.85	1.23	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DUPDLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:07:07 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.72	7.68	7.48	7.63	1.68	ppb
Lead	207-1	6.97	6.87	6.91	6.92	0.74	ppb
Lead	208-1	7.37	7.17	7.17	7.24	1.58	ppb
Lithium	6-1				116		%
Magnesium	24-2	2072.81	2060.83	2049.80	2061.15	0.56	ppb
Manganese	55-2	262.74	262.82	260.99	262.18	0.39	ppb
Molybdenum	94-1	10.86	10.54	10.49	10.63	1.87	ppb
Molybdenum	95-1	0.67	0.61	0.61	0.63	6.05	ppb
Molybdenum	96-1	1.94	1.84	1.84	1.87	3.26	ppb
Molybdenum	97-1	0.65	0.59	0.63	0.62	4.36	ppb
Molybdenum	98-1	0.70	0.60	0.62	0.64	8.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.50	10.01	10.29	10.26	2.39	ppb
Phosphorus	31-2	242.77	237.12	252.43	244.11	3.17	ppb
Potassium	39-2	1827.93	1829.85	1821.62	1826.47	0.24	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				91		%
Selenium	82-1	0.27	0.42	0.57	0.42	36.52	ppb
Selenium	77-2	3.65	2.82	3.18	3.22	13.01	ppb
Selenium	78-2	0.60	0.48	0.70	0.59	18.23	ppb
Silicon	28-1	23.68	22.22	22.17	22.69	3.78	ppb
Silver	107-1	0.03	0.03	0.02	0.03	20.11	ppb
Silver	109-1	0.03	0.02	0.02	0.02	25.16	ppb
Sodium	23-2	91.68	91.26	91.03	91.32	0.36	ppb
Strontium	86-1	81.84	77.61	75.22	78.22	4.28	ppb
Strontium	88-1	81.44	77.63	77.12	78.73	3.00	ppb
Sulfur	34-1	-546.60	-755.92	-705.72	-669.41		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.21	0.18	0.18	0.19	8.60	ppb
Thallium	205-1	0.20	0.18	0.18	0.19	6.22	ppb
Tin	118-1	0.19	0.19	0.24	0.20	13.62	ppb
Titanium	47-1	425.50	419.00	418.28	420.93	0.94	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DUPDLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:07:07 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.21	1.17	1.16	1.18	2.23	ppb
Vanadium	51-2	33.20	33.17	33.10	33.16	0.15	ppb
Yttrium	89-1				100		%
Yttrium	89-2				96		%
Zinc	66-2	26.73	26.87	26.40	26.67	0.92	ppb
Zirconium	90-1	5.66	5.43	5.42	5.50	2.43	ppb
Zirconium	91-1	5.77	5.41	5.45	5.55	3.58	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01LDLX25 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 25
Date & Time Acquired : 2025-01-06 15:10:21 DataFile Name : 034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1852.45	1843.85	1849.06	1848.45	0.23	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	9.88	ppb
Arsenic	75-2	0.73	0.69	0.74	0.72	3.76	ppb
Barium	135-1	8.87	9.20	8.86	8.98	2.16	ppb
Barium	137-1	8.85	9.05	8.87	8.92	1.21	ppb
Beryllium	9-1	0.11	0.17	0.15	0.14	19.99	ppb
Bismuth	209-1				111		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.29	0.15	0.18	0.21	34.77	ppb
Cadmium	106-1	-10.42	-8.23	-7.23	-8.63		ppb
Cadmium	111-1	-0.13	-0.09	-0.09	-0.10		ppb
Calcium	43-1	135.81	132.97	139.34	136.04	2.35	ppb
Calcium	44-1	139.44	139.41	138.25	139.04	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.59	4.55	4.47	4.54	1.36	ppb
Cobalt	59-2	1.64	1.64	1.62	1.64	0.60	ppb
Copper	63-2	2.58	2.53	2.54	2.55	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	56-2	4495.34	4471.12	4532.28	4499.58	0.68	ppb
Iron	57-2	4527.62	4516.07	4528.05	4523.91	0.15	ppb
Iron	54-2	4574.48	4559.13	4590.61	4574.74	0.34	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01LDLX25 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 25
Date & Time Acquired : 2025-01-06 15:10:21 DataFile Name : 034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.50	1.52	1.51	1.51	0.54	ppb
Lead	207-1	1.37	1.33	1.34	1.35	1.61	ppb
Lead	208-1	1.43	1.45	1.41	1.43	1.44	ppb
Lithium	6-1				114		%
Magnesium	24-2	418.53	413.09	417.84	416.49	0.71	ppb
Manganese	55-2	53.49	53.43	54.05	53.66	0.64	ppb
Molybdenum	94-1	1.94	2.12	2.09	2.05	4.66	ppb
Molybdenum	95-1	0.12	0.12	0.15	0.13	12.40	ppb
Molybdenum	96-1	0.37	0.41	0.41	0.40	5.89	ppb
Molybdenum	97-1	0.16	0.12	0.14	0.14	11.25	ppb
Molybdenum	98-1	0.13	0.13	0.14	0.13	4.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.92	1.99	2.12	2.01	5.24	ppb
Phosphorus	31-2	18.59	26.50	26.09	23.72	18.77	ppb
Potassium	39-2	357.94	366.87	362.91	362.58	1.23	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				91		%
Selenium	82-1	-0.35	-0.01	0.09	-0.09		ppb
Selenium	77-2	0.71	1.57	1.42	1.23	37.26	ppb
Selenium	78-2	-0.25	-0.52	-0.79	-0.52		ppb
Silicon	28-1	-1.11	-2.02	-2.47	-1.87		ppb
Silver	107-1	0.01	0.01	0.01	0.01	19.15	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.78	ppb
Sodium	23-2	25.21	25.94	24.99	25.38	1.97	ppb
Strontium	86-1	14.66	15.81	16.44	15.63	5.76	ppb
Strontium	88-1	15.22	15.58	15.71	15.50	1.64	ppb
Sulfur	34-1	-928.76	-954.36	-1023.90	-969.01		ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.05	0.04	0.04	0.04	6.27	ppb
Thallium	205-1	0.04	0.05	0.04	0.04	9.72	ppb
Tin	118-1	0.03	0.03	0.02	0.03	20.96	ppb
Titanium	47-1	83.83	84.47	82.50	83.60	1.20	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01LDLX25 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 25
Date & Time Acquired : 2025-01-06 15:10:21 DataFile Name : 034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.24	0.23	0.22	0.23	3.34	ppb
Vanadium	51-2	6.82	6.77	6.85	6.81	0.55	ppb
Yttrium	89-1				101		%
Yttrium	89-2				96		%
Zinc	66-2	5.39	5.23	5.60	5.41	3.52	ppb
Zirconium	90-1	1.08	1.09	1.09	1.09	0.51	ppb
Zirconium	91-1	1.09	1.05	1.09	1.07	2.32	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:13:34 DataFile Name : 035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10951.27	10925.45	10822.07	10899.60	0.63	ppb
Antimony	121-1	123.63	124.26	126.04	124.64	1.00	ppb
Arsenic	75-2	133.60	134.74	136.96	135.10	1.26	ppb
Barium	135-1	661.90	661.49	664.92	662.77	0.28	ppb
Barium	137-1	653.12	656.97	667.67	659.25	1.14	ppb
Beryllium	9-1	129.05	133.22	128.25	130.18	2.05	ppb
Bismuth	209-1				109		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	132.23	131.18	132.28	131.89	0.47	ppb
Cadmium	106-1	127.19	133.41	131.91	130.84	2.48	ppb
Cadmium	111-1	130.78	134.12	136.13	133.67	2.02	ppb
Calcium	43-1	11263.01	11206.06	11373.03	11280.70	0.75	ppb
Calcium	44-1	10712.98	10801.93	10806.64	10773.85	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	144.19	144.55	144.92	144.55	0.25	ppb
Cobalt	59-2	136.10	137.21	137.33	136.88	0.50	ppb
Copper	63-2	1029.37	1044.89	1034.23	1036.16	0.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	27232.29	27214.80	27104.67	27183.92	0.25	ppb
Iron	57-2	27206.71	27136.29	26853.26	27065.42	0.69	ppb
Iron	54-2	27211.20	27114.77	27386.55	27237.51	0.51	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:13:34 DataFile Name : 035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	484.74	480.02	494.63	486.46	1.53	ppb
Lead	207-1	489.18	488.05	487.37	488.20	0.19	ppb
Lead	208-1	485.12	484.88	486.65	485.55	0.20	ppb
Lithium	6-1				115		%
Magnesium	24-2	11637.19	11724.91	11592.41	11651.50	0.58	ppb
Manganese	55-2	1173.22	1171.94	1175.54	1173.57	0.16	ppb
Molybdenum	94-1	818.33	817.72	835.86	823.97	1.25	ppb
Molybdenum	95-1	719.10	737.54	732.93	729.86	1.31	ppb
Molybdenum	96-1	729.27	744.79	746.05	740.04	1.26	ppb
Molybdenum	97-1	717.57	730.31	727.36	725.08	0.92	ppb
Molybdenum	98-1	717.74	719.19	723.46	720.13	0.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	138.51	139.25	139.41	139.06	0.34	ppb
Phosphorus	31-2	225.57	211.09	223.70	220.12	3.58	ppb
Potassium	39-2	7622.26	7751.67	7723.00	7698.98	0.88	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				93		%
Selenium	82-1	129.35	128.32	130.80	129.49	0.96	ppb
Selenium	77-2	136.97	136.88	137.76	137.20	0.35	ppb
Selenium	78-2	129.28	132.73	135.32	132.45	2.29	ppb
Silicon	28-1	28.46	29.18	38.79	32.14	17.95	ppb
Silver	107-1	0.31	0.32	0.33	0.32	3.22	ppb
Silver	109-1	0.15	0.17	0.16	0.16	7.54	ppb
Sodium	23-2	9797.42	9785.29	9901.67	9828.13	0.65	ppb
Strontium	86-1	3103.58	3107.07	3114.58	3108.41	0.18	ppb
Strontium	88-1	3181.08	3188.02	3187.31	3185.47	0.12	ppb
Sulfur	34-1	-702.12	-730.93	-697.69	-710.25		ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	117.15	119.02	119.90	118.69	1.18	ppb
Thallium	205-1	125.00	124.22	125.06	124.76	0.38	ppb
Tin	118-1	121.77	123.04	122.86	122.56	0.56	ppb
Titanium	47-1	871.31	852.99	881.16	868.49	1.65	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:13:34 DataFile Name : 035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	121.82	122.44	122.76	122.34	0.39	ppb
Vanadium	51-2	157.50	157.25	158.01	157.59	0.25	ppb
Yttrium	89-1				103		%
Yttrium	89-2				97		%
Zinc	66-2	1001.02	1015.47	1006.50	1007.66	0.72	ppb
Zirconium	90-1	128.68	128.74	130.22	129.21	0.67	ppb
Zirconium	91-1	124.97	126.10	126.71	125.93	0.70	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSDX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:16:27 DataFile Name : 036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10811.91	10901.32	10797.04	10836.76	0.52	ppb
Antimony	121-1	124.76	122.93	124.15	123.95	0.75	ppb
Arsenic	75-2	133.46	132.72	133.46	133.21	0.32	ppb
Barium	135-1	657.49	660.51	656.61	658.21	0.31	ppb
Barium	137-1	657.48	661.65	655.78	658.30	0.46	ppb
Beryllium	9-1	126.66	128.02	129.91	128.20	1.28	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	132.42	131.14	132.54	132.03	0.59	ppb
Cadmium	106-1	128.53	124.25	128.49	127.09	1.94	ppb
Cadmium	111-1	133.05	132.24	133.12	132.80	0.37	ppb
Calcium	43-1	11033.02	11168.66	11093.84	11098.51	0.61	ppb
Calcium	44-1	10592.89	10616.49	10506.80	10572.06	0.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	144.02	143.52	142.92	143.48	0.38	ppb
Cobalt	59-2	135.56	136.09	134.49	135.38	0.60	ppb
Copper	63-2	1026.04	1021.36	1032.05	1026.48	0.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	26990.88	27241.31	26992.52	27074.90	0.53	ppb
Iron	57-2	26827.19	26768.69	26574.20	26723.36	0.50	ppb
Iron	54-2	26976.80	27350.66	26845.66	27057.71	0.97	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSDX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:16:27 DataFile Name : 036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	488.71	484.04	475.17	482.64	1.42	ppb
Lead	207-1	478.08	479.06	480.13	479.09	0.21	ppb
Lead	208-1	484.91	482.05	479.02	481.99	0.61	ppb
Lithium	6-1				115		%
Magnesium	24-2	11466.78	11591.54	11511.88	11523.40	0.55	ppb
Manganese	55-2	1168.55	1166.06	1171.50	1168.71	0.23	ppb
Molybdenum	94-1	819.08	829.34	824.65	824.36	0.62	ppb
Molybdenum	95-1	717.28	720.27	722.35	719.96	0.35	ppb
Molybdenum	96-1	721.30	726.48	736.10	727.96	1.03	ppb
Molybdenum	97-1	727.21	725.34	725.66	726.07	0.14	ppb
Molybdenum	98-1	713.84	713.55	713.02	713.47	0.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	137.86	139.00	138.68	138.51	0.42	ppb
Phosphorus	31-2	233.14	238.42	207.54	226.37	7.30	ppb
Potassium	39-2	7608.38	7643.88	7642.11	7631.45	0.26	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				92		%
Selenium	82-1	127.57	128.66	130.40	128.88	1.11	ppb
Selenium	77-2	132.78	134.25	146.69	137.91	5.54	ppb
Selenium	78-2	130.21	131.37	133.75	131.78	1.37	ppb
Silicon	28-1	31.02	26.77	29.45	29.08	7.38	ppb
Silver	107-1	0.31	0.30	0.31	0.31	2.54	ppb
Silver	109-1	0.17	0.15	0.15	0.16	7.69	ppb
Sodium	23-2	9790.41	9802.14	9757.47	9783.34	0.24	ppb
Strontium	86-1	3067.84	3112.25	3082.75	3087.61	0.73	ppb
Strontium	88-1	3176.84	3159.41	3157.55	3164.60	0.34	ppb
Sulfur	34-1	-875.88	-812.06	-837.21	-841.72		ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	118.84	118.51	119.36	118.90	0.36	ppb
Thallium	205-1	126.15	123.76	123.72	124.55	1.12	ppb
Tin	118-1	122.34	121.23	121.70	121.76	0.45	ppb
Titanium	47-1	855.64	857.04	857.90	856.86	0.13	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSDX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:16:27 DataFile Name : 036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	121.74	121.38	120.92	121.35	0.34	ppb
Vanadium	51-2	157.31	157.75	156.58	157.21	0.38	ppb
Yttrium	89-1				103		%
Yttrium	89-2				96		%
Zinc	66-2	998.83	1007.99	995.76	1000.86	0.64	ppb
Zirconium	90-1	128.83	128.95	128.89	128.89	0.05	ppb
Zirconium	91-1	124.90	126.67	126.61	126.06	0.80	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01ADLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:19:18 DataFile Name : 037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10967.50	10927.00	10746.44	10880.31	1.08	ppb
Antimony	121-1	124.21	124.56	124.59	124.46	0.17	ppb
Arsenic	75-2	135.95	132.26	134.66	134.29	1.39	ppb
Barium	135-1	662.33	659.76	651.77	657.95	0.84	ppb
Barium	137-1	664.44	656.06	658.20	659.57	0.66	ppb
Beryllium	9-1	130.17	130.46	130.40	130.34	0.12	ppb
Bismuth	209-1				111		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	131.42	129.20	131.66	130.76	1.04	ppb
Cadmium	106-1	128.58	126.92	129.68	128.39	1.08	ppb
Cadmium	111-1	132.82	132.84	132.46	132.70	0.16	ppb
Calcium	43-1	11219.74	11172.41	11166.16	11186.10	0.26	ppb
Calcium	44-1	10644.39	10688.05	10581.11	10637.85	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	145.11	143.49	143.25	143.95	0.70	ppb
Cobalt	59-2	136.41	135.87	134.40	135.56	0.77	ppb
Copper	63-2	1038.99	1044.11	1014.98	1032.69	1.51	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	56-2	27019.63	27146.27	26815.19	26993.70	0.62	ppb
Iron	57-2	26876.13	26889.46	26891.32	26885.63	0.03	ppb
Iron	54-2	27159.57	26991.66	26726.72	26959.32	0.81	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01ADLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:19:18 DataFile Name : 037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	486.08	472.85	468.16	475.70	1.95	ppb
Lead	207-1	490.55	474.99	481.18	482.24	1.62	ppb
Lead	208-1	484.86	473.61	472.83	477.10	1.41	ppb
Lithium	6-1				113		%
Magnesium	24-2	11634.68	11587.44	11574.03	11598.72	0.27	ppb
Manganese	55-2	1164.32	1168.19	1157.64	1163.38	0.46	ppb
Molybdenum	94-1	806.93	833.56	829.48	823.32	1.74	ppb
Molybdenum	95-1	712.71	730.29	720.83	721.28	1.22	ppb
Molybdenum	96-1	727.00	740.32	732.51	733.28	0.91	ppb
Molybdenum	97-1	722.33	726.16	726.52	725.00	0.32	ppb
Molybdenum	98-1	709.92	722.26	718.99	717.06	0.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	139.39	138.93	136.96	138.43	0.94	ppb
Phosphorus	31-2	220.69	218.08	231.15	223.31	3.10	ppb
Potassium	39-2	7656.27	7682.56	7652.83	7663.89	0.21	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				91		%
Selenium	82-1	128.68	131.60	130.57	130.28	1.14	ppb
Selenium	77-2	132.55	139.49	141.54	137.86	3.42	ppb
Selenium	78-2	132.39	128.74	132.11	131.08	1.55	ppb
Silicon	28-1	27.54	27.70	30.25	28.50	5.34	ppb
Silver	107-1	0.30	0.30	0.32	0.31	3.63	ppb
Silver	109-1	0.16	0.15	0.17	0.16	6.75	ppb
Sodium	23-2	9758.37	9865.39	9680.07	9767.94	0.95	ppb
Strontium	86-1	3070.06	3137.90	3104.86	3104.27	1.09	ppb
Strontium	88-1	3175.27	3206.81	3182.56	3188.21	0.52	ppb
Sulfur	34-1	-883.13	-862.02	-828.09	-857.74		ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	116.68	115.60	116.85	116.38	0.58	ppb
Thallium	205-1	121.10	120.75	122.65	121.50	0.83	ppb
Tin	118-1	121.29	122.52	122.52	122.11	0.58	ppb
Titanium	47-1	843.22	850.68	846.77	846.89	0.44	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01ADLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:19:18 DataFile Name : 037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	120.78	120.75	121.09	120.88	0.16	ppb
Vanadium	51-2	157.51	156.97	155.24	156.57	0.76	ppb
Yttrium	89-1				102		%
Yttrium	89-2				96		%
Zinc	66-2	1006.47	1005.06	995.58	1002.37	0.59	ppb
Zirconium	90-1	128.08	129.81	126.73	128.21	1.20	ppb
Zirconium	91-1	124.38	126.90	126.08	125.79	1.02	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:35:10 DataFile Name : 042CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49302.75	49416.08	50237.51	49652.11	1.03	ppb
Antimony	121-1	491.16	481.04	474.12	482.11	1.78	ppb
Arsenic	75-2	480.23	482.23	485.55	482.67	0.56	ppb
Barium	135-1	2495.14	2449.62	2383.89	2442.88	2.29	ppb
Barium	137-1	2499.56	2420.30	2398.28	2439.38	2.18	ppb
Beryllium	9-1	489.79	496.96	485.29	490.68	1.20	ppb
Bismuth	209-1				99		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	484.99	466.11	472.18	474.43	2.03	ppb
Cadmium	106-1	478.60	465.55	463.97	469.37	1.71	ppb
Cadmium	111-1	467.86	455.04	455.24	459.38	1.60	ppb
Calcium	43-1	255083.16	250124.41	251519.46	252242.34	1.01	ppb
Calcium	44-1	253105.34	249006.24	250777.99	250963.19	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	487.95	484.20	486.16	486.10	0.39	ppb
Cobalt	59-2	479.21	483.37	480.92	481.17	0.43	ppb
Copper	63-2	4655.27	4681.39	4695.17	4677.27	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				99		%
Indium	115-1				90		%
Indium	115-2				86		%
Iron	56-2	126272.11	127543.81	129081.60	127632.51	1.10	ppb
Iron	57-2	126967.77	128151.94	128662.21	127927.31	0.68	ppb
Iron	54-2	127310.03	127092.64	127554.24	127318.97	0.18	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:35:10 DataFile Name : 042CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2557.66	2499.36	2474.64	2510.55	1.70	ppb
Lead	207-1	2551.67	2485.64	2476.59	2504.63	1.64	ppb
Lead	208-1	2552.57	2497.91	2480.30	2510.26	1.50	ppb
Lithium	6-1				109		%
Magnesium	24-2	250374.27	247320.06	250975.05	249556.46	0.79	ppb
Manganese	55-2	4813.51	4876.68	4858.30	4849.50	0.67	ppb
Molybdenum	94-1	5057.44	5005.75	4901.65	4988.28	1.59	ppb
Molybdenum	95-1	4984.20	4977.78	4852.97	4938.32	1.50	ppb
Molybdenum	96-1	4979.45	4980.54	4879.00	4946.33	1.18	ppb
Molybdenum	97-1	5006.92	4963.33	4840.19	4936.81	1.75	ppb
Molybdenum	98-1	4990.34	4914.08	4818.22	4907.55	1.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	467.39	473.56	471.02	470.66	0.66	ppb
Phosphorus	31-2	9888.99	9806.81	9868.33	9854.71	0.43	ppb
Potassium	39-2	120706.28	119558.55	121705.32	120656.72	0.89	ppb
Rhodium	103-1				84		%
Rhodium	103-2				83		%
Scandium	45-1				90		%
Scandium	45-2				83		%
Selenium	82-1	479.42	477.91	471.44	476.26	0.89	ppb
Selenium	77-2	468.97	470.98	481.56	473.84	1.43	ppb
Selenium	78-2	477.26	472.00	472.34	473.87	0.62	ppb
Silicon	28-1	475.49	466.46	469.10	470.35	0.99	ppb
Silver	107-1	487.27	468.26	466.59	474.04	2.42	ppb
Silver	109-1	484.09	463.39	463.65	470.38	2.52	ppb
Sodium	23-2	245525.24	247046.67	248640.93	247070.95	0.63	ppb
Strontium	86-1	12347.05	12426.45	12130.86	12301.45	1.24	ppb
Strontium	88-1	12566.84	12281.10	12243.51	12363.82	1.43	ppb
Sulfur	34-1	9834.29	9588.91	9714.10	9712.43	1.26	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	512.00	506.25	493.91	504.05	1.83	ppb
Thallium	205-1	509.81	500.88	496.39	502.36	1.36	ppb
Tin	118-1	493.11	477.88	482.86	484.62	1.60	ppb
Titanium	47-1	4952.61	4851.05	4924.27	4909.31	1.07	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:35:10 DataFile Name : 042CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	510.02	502.06	497.63	503.24	1.25	ppb
Vanadium	51-2	486.87	490.09	489.63	488.86	0.36	ppb
Yttrium	89-1				92		%
Yttrium	89-2				87		%
Zinc	66-2	4622.32	4599.86	4682.46	4634.88	0.92	ppb
Zirconium	90-1	504.28	492.38	486.64	494.44	1.82	ppb
Zirconium	91-1	510.30	500.02	496.10	502.14	1.46	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:38:14 DataFile Name : 043CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.15	3.17	2.96	3.09	3.65	ppb
Antimony	121-1	0.14	0.11	0.13	0.13	8.52	ppb
Arsenic	75-2	0.04	0.04	0.06	0.05	27.80	ppb
Barium	135-1	0.17	0.16	0.14	0.15	7.98	ppb
Barium	137-1	0.15	0.15	0.15	0.15	1.45	ppb
Beryllium	9-1	0.08	0.08	0.09	0.08	7.67	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.11	0.08	0.15	0.11	29.85	ppb
Cadmium	106-1	-10.94	-11.55	-13.61	-12.03		ppb
Cadmium	111-1	-0.09	-0.10	-0.11	-0.10		ppb
Calcium	43-1	14.22	7.97	13.18	11.79	28.38	ppb
Calcium	44-1	12.60	11.83	12.48	12.30	3.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.01	0.05	0.01	248.21	ppb
Cobalt	59-2	0.03	0.02	0.03	0.02	17.48	ppb
Copper	63-2	0.33	0.32	0.32	0.32	1.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	56-2	8.41	8.69	9.24	8.78	4.83	ppb
Iron	57-2	5.84	5.38	5.04	5.42	7.42	ppb
Iron	54-2	8.09	8.31	7.99	8.13	2.02	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:38:14 DataFile Name : 043CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.16	0.18	0.16	0.17	6.85	ppb
Lead	207-1	0.19	0.18	0.16	0.18	6.51	ppb
Lead	208-1	0.17	0.18	0.17	0.17	3.41	ppb
Lithium	6-1				118		%
Magnesium	24-2	17.15	16.99	17.17	17.10	0.59	ppb
Manganese	55-2	0.31	0.33	0.32	0.32	3.44	ppb
Molybdenum	94-1	0.34	0.37	0.36	0.36	4.57	ppb
Molybdenum	95-1	0.35	0.35	0.35	0.35	1.25	ppb
Molybdenum	96-1	0.37	0.32	0.33	0.34	7.49	ppb
Molybdenum	97-1	0.35	0.30	0.37	0.34	10.03	ppb
Molybdenum	98-1	0.35	0.33	0.35	0.35	3.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.01	-0.01	0.01	173.66	ppb
Phosphorus	31-2	-17.87	-25.17	-20.19	-21.08		ppb
Potassium	39-2	5.96	3.89	4.44	4.76	22.50	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				93		%
Scandium	45-2				87		%
Selenium	82-1	-0.50	0.43	-0.33	-0.13		ppb
Selenium	77-2	0.55	0.00	0.00	0.18	173.21	ppb
Selenium	78-2	-0.75	-0.16	-0.12	-0.34		ppb
Silicon	28-1	-12.37	-12.35	-12.30	-12.34		ppb
Silver	107-1	0.08	0.07	0.06	0.07	9.01	ppb
Silver	109-1	0.07	0.06	0.07	0.07	5.99	ppb
Sodium	23-2	51.14	48.89	48.80	49.61	2.67	ppb
Strontium	86-1	0.75	1.03	0.99	0.92	16.43	ppb
Strontium	88-1	0.76	0.76	0.78	0.76	1.41	ppb
Sulfur	34-1	-607.69	-554.00	-570.60	-577.43		ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	0.06	0.07	0.06	0.06	7.21	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	0.68	ppb
Tin	118-1	0.04	0.04	0.04	0.04	5.12	ppb
Titanium	47-1	0.29	0.29	0.32	0.30	6.31	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:38:14 DataFile Name : 043CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.02	0.02	0.02	9.38	ppb
Vanadium	51-2	0.02	0.04	0.04	0.03	27.54	ppb
Yttrium	89-1				97		%
Yttrium	89-2				92		%
Zinc	66-2	0.52	0.43	0.49	0.48	9.49	ppb
Zirconium	90-1	0.03	0.05	0.05	0.04	20.25	ppb
Zirconium	91-1	0.04	0.05	0.05	0.05	14.37	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BL Instrumnet Name : P7
Client Sample ID : PBS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:41:31 DataFile Name : 044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.56	1.32	1.22	1.37	12.78	ppb
Antimony	121-1	0.05	0.05	0.05	0.05	3.38	ppb
Arsenic	75-2	0.02	-0.01	0.02	0.01	235.62	ppb
Barium	135-1	0.07	0.09	0.07	0.08	17.77	ppb
Barium	137-1	0.09	0.08	0.08	0.08	8.37	ppb
Beryllium	9-1	0.07	0.06	0.06	0.06	2.74	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.27	0.09	0.13	106.19	ppb
Cadmium	106-1	-11.86	-10.28	-11.28	-11.14		ppb
Cadmium	111-1	-0.10	-0.11	-0.11	-0.11		ppb
Calcium	43-1	2.44	8.26	5.17	5.29	55.11	ppb
Calcium	44-1	5.38	5.41	3.47	4.76	23.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.01	-0.03	0.01	560.56	ppb
Cobalt	59-2	0.00	-0.01	0.00	0.00		ppb
Copper	63-2	0.09	0.02	0.04	0.05	70.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	56-2	3.48	2.83	2.51	2.94	16.85	ppb
Iron	57-2	1.61	-0.10	0.57	0.69	124.06	ppb
Iron	54-2	2.35	2.40	2.05	2.27	8.24	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BL Instrumnet Name : P7
Client Sample ID : PBS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:41:31 DataFile Name : 044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.11	0.11	0.08	0.10	15.92	ppb
Lead	207-1	0.09	0.08	0.07	0.08	9.85	ppb
Lead	208-1	0.10	0.09	0.08	0.09	8.65	ppb
Lithium	6-1				116		%
Magnesium	24-2	6.11	5.53	4.75	5.46	12.50	ppb
Manganese	55-2	0.12	0.10	0.10	0.11	10.90	ppb
Molybdenum	94-1	0.20	0.19	0.17	0.19	8.31	ppb
Molybdenum	95-1	0.19	0.17	0.16	0.17	7.56	ppb
Molybdenum	96-1	0.19	0.18	0.17	0.18	4.21	ppb
Molybdenum	97-1	0.20	0.17	0.16	0.18	10.30	ppb
Molybdenum	98-1	0.19	0.18	0.14	0.17	14.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.08	-0.02	0.02	315.75	ppb
Phosphorus	31-2	-25.27	-22.63	-29.12	-25.68		ppb
Potassium	39-2	-3.07	-4.03	-4.51	-3.87		ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				88		%
Selenium	82-1	-0.56	-0.12	0.45	-0.08		ppb
Selenium	77-2	0.18	0.00	0.00	0.06	173.21	ppb
Selenium	78-2	-0.58	0.15	-0.07	-0.17		ppb
Silicon	28-1	-12.15	-7.12	-8.83	-9.37		ppb
Silver	107-1	0.03	0.02	0.02	0.02	25.66	ppb
Silver	109-1	0.03	0.02	0.02	0.02	16.62	ppb
Sodium	23-2	25.16	24.86	22.33	24.12	6.45	ppb
Strontium	86-1	0.15	0.26	0.16	0.19	30.85	ppb
Strontium	88-1	0.37	0.41	0.33	0.37	10.18	ppb
Sulfur	34-1	-489.96	-436.03	-467.78	-464.59		ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.03	0.02	0.03	0.03	19.33	ppb
Thallium	205-1	0.03	0.02	0.02	0.03	20.47	ppb
Tin	118-1	0.03	0.02	0.01	0.02	63.37	ppb
Titanium	47-1	0.23	0.17	0.13	0.18	28.00	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BL Instrumnet Name : P7
Client Sample ID : PBS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:41:31 DataFile Name : 044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.01	0.01	0.01	13.02	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	16.15	ppb
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	0.15	0.16	0.09	0.13	27.99	ppb
Zirconium	90-1	0.03	0.02	0.02	0.03	22.98	ppb
Zirconium	91-1	0.04	0.03	0.03	0.03	16.46	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BS Instrumnet Name : P7
Client Sample ID : LCS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:44:46 DataFile Name : 045LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.78	39.58	39.41	39.59	0.47	ppb
Antimony	121-1	3.91	3.85	4.03	3.93	2.31	ppb
Arsenic	75-2	2.10	2.24	2.12	2.16	3.46	ppb
Barium	135-1	18.95	18.76	19.41	19.04	1.75	ppb
Barium	137-1	19.02	19.25	19.30	19.19	0.76	ppb
Beryllium	9-1	2.05	2.15	2.04	2.08	2.78	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.30	1.97	2.32	2.20	8.89	ppb
Cadmium	106-1	-9.86	-8.92	-6.88	-8.55		ppb
Cadmium	111-1	1.89	1.98	1.96	1.95	2.37	ppb
Calcium	43-1	1030.56	1038.07	1030.68	1033.10	0.42	ppb
Calcium	44-1	1029.24	1048.68	1031.84	1036.59	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.90	3.97	4.02	3.96	1.41	ppb
Cobalt	59-2	2.08	2.02	2.02	2.04	1.55	ppb
Copper	63-2	4.21	4.21	4.19	4.20	0.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	56-2	433.94	436.62	427.73	432.77	1.05	ppb
Iron	57-2	441.84	441.67	433.85	439.12	1.04	ppb
Iron	54-2	443.24	437.56	439.97	440.26	0.65	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BS Instrumnet Name : P7
Client Sample ID : LCS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:44:46 DataFile Name : 045LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.95	1.91	1.96	1.94	1.42	ppb
Lead	207-1	1.88	1.88	1.97	1.91	2.67	ppb
Lead	208-1	1.90	1.89	1.95	1.91	1.66	ppb
Lithium	6-1				116		%
Magnesium	24-2	998.83	989.41	985.43	991.22	0.69	ppb
Manganese	55-2	2.13	2.16	2.12	2.14	1.05	ppb
Molybdenum	94-1	11.23	11.47	12.35	11.68	5.05	ppb
Molybdenum	95-1	9.66	9.50	10.49	9.89	5.36	ppb
Molybdenum	96-1	9.94	9.87	10.64	10.15	4.22	ppb
Molybdenum	97-1	9.58	9.68	10.48	9.91	4.97	ppb
Molybdenum	98-1	9.63	9.72	10.01	9.79	2.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.06	2.06	2.12	2.08	1.67	ppb
Phosphorus	31-2	32.31	33.60	28.92	31.61	7.64	ppb
Potassium	39-2	1002.34	1001.52	1000.16	1001.34	0.11	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				90		%
Selenium	82-1	10.16	9.86	10.15	10.06	1.69	ppb
Selenium	77-2	12.28	9.85	9.68	10.61	13.71	ppb
Selenium	78-2	10.76	10.60	10.36	10.57	1.90	ppb
Silicon	28-1	-5.32	-4.83	-4.99	-5.05		ppb
Silver	107-1	1.99	2.01	2.02	2.01	0.75	ppb
Silver	109-1	1.99	2.02	2.03	2.01	0.99	ppb
Sodium	23-2	978.35	977.28	974.58	976.74	0.20	ppb
Strontium	86-1	48.30	49.53	50.07	49.30	1.84	ppb
Strontium	88-1	48.54	48.21	49.33	48.69	1.18	ppb
Sulfur	34-1	-397.94	-380.91	-389.97	-389.61		ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	1.90	1.85	1.95	1.90	2.49	ppb
Thallium	205-1	1.87	1.83	1.90	1.87	1.92	ppb
Tin	118-1	9.92	10.07	10.01	10.00	0.75	ppb
Titanium	47-1	2.23	2.41	2.45	2.37	4.94	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BS Instrumnet Name : P7
Client Sample ID : LCS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:44:46 DataFile Name : 045LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.72	1.67	1.75	1.71	2.29	ppb
Vanadium	51-2	9.83	10.21	10.04	10.02	1.88	ppb
Yttrium	89-1				100		%
Yttrium	89-2				94		%
Zinc	66-2	10.61	10.50	10.18	10.43	2.11	ppb
Zirconium	90-1	1.92	1.94	1.92	1.93	0.69	ppb
Zirconium	91-1	1.90	1.95	1.98	1.94	1.97	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:48:02 DataFile Name : 046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11483.51	11314.41	11330.15	11376.03	0.82	ppb
Antimony	121-1	5.59	5.46	5.61	5.56	1.45	ppb
Arsenic	75-2	41.06	39.68	41.16	40.63	2.03	ppb
Barium	135-1	64.74	63.38	64.78	64.30	1.23	ppb
Barium	137-1	64.69	63.36	65.29	64.45	1.54	ppb
Beryllium	9-1	1.23	1.30	1.22	1.25	3.43	ppb
Bismuth	209-1				120		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.75	22.70	24.17	23.54	3.22	ppb
Cadmium	106-1	20.44	16.08	17.18	17.90	12.68	ppb
Cadmium	111-1	22.21	22.08	22.18	22.16	0.32	ppb
Calcium	43-1	3914.39	3815.66	3892.43	3874.16	1.34	ppb
Calcium	44-1	3777.82	3787.48	3778.66	3781.32	0.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.16	8.17	8.09	8.14	0.50	ppb
Cobalt	59-2	22.49	22.40	22.44	22.44	0.21	ppb
Copper	63-2	1471.65	1469.72	1471.22	1470.86	0.07	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	56-2	46677.68	45851.74	45960.39	46163.27	0.97	ppb
Iron	57-2	45165.71	44837.78	45315.03	45106.17	0.54	ppb
Iron	54-2	46065.95	45690.29	45946.37	45900.87	0.42	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:48:02 DataFile Name : 046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5871.01	6024.72	5969.06	5954.93	1.31	ppb
Lead	207-1	5552.37	5699.57	5659.29	5637.08	1.35	ppb
Lead	208-1	5712.59	5786.90	5762.24	5753.91	0.66	ppb
Lithium	6-1				118		%
Magnesium	24-2	6336.66	6228.54	6291.49	6285.56	0.86	ppb
Manganese	55-2	30846.12	30547.45	30642.75	30678.78	0.50	ppb
Molybdenum	94-1	173.30	174.01	174.74	174.02	0.41	ppb
Molybdenum	95-1	211.84	212.10	212.81	212.25	0.24	ppb
Molybdenum	96-1	206.13	210.96	208.10	208.39	1.17	ppb
Molybdenum	97-1	211.04	212.88	213.24	212.39	0.55	ppb
Molybdenum	98-1	214.70	218.03	214.90	215.88	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.29	8.35	8.22	8.29	0.76	ppb
Phosphorus	31-2	1639.99	1611.61	1600.32	1617.31	1.26	ppb
Potassium	39-2	1138.48	1123.97	1140.77	1134.41	0.80	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				100		%
Selenium	82-1	1.52	2.02	1.96	1.83	14.78	ppb
Selenium	77-2	7.72	9.76	8.56	8.68	11.81	ppb
Selenium	78-2	2.28	1.61	3.47	2.45	38.39	ppb
Silicon	28-1	275.60	270.39	276.78	274.25	1.24	ppb
Silver	107-1	37.78	37.53	37.96	37.76	0.57	ppb
Silver	109-1	37.71	37.19	37.68	37.53	0.77	ppb
Sodium	23-2	98.60	97.36	101.22	99.06	1.99	ppb
Strontium	86-1	641.90	649.05	656.05	649.00	1.09	ppb
Strontium	88-1	648.82	651.13	655.32	651.76	0.51	ppb
Sulfur	34-1	782.23	687.07	814.32	761.20	8.69	ppb
Terbium	159-1				110		%
Terbium	159-2				107		%
Thallium	203-1	0.74	0.72	0.69	0.72	3.87	ppb
Thallium	205-1	0.71	0.70	0.68	0.70	2.57	ppb
Tin	118-1	0.67	0.66	0.62	0.65	4.33	ppb
Titanium	47-1	15.98	15.95	16.16	16.03	0.71	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:48:02 DataFile Name : 046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.47	1.47	1.48	1.47	0.15	ppb
Vanadium	51-2	25.98	25.74	26.06	25.93	0.64	ppb
Yttrium	89-1				108		%
Yttrium	89-2				105		%
Zinc	66-2	8118.48	8068.33	8076.47	8087.76	0.33	ppb
Zirconium	90-1	0.25	0.24	0.26	0.25	3.62	ppb
Zirconium	91-1	0.29	0.31	0.26	0.29	9.45	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:51:04 DataFile Name : 047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3796.69	3788.75	3830.46	3805.30	0.58	ppb
Antimony	121-1	81.82	81.62	81.62	81.69	0.14	ppb
Arsenic	75-2	294.41	291.15	291.14	292.23	0.65	ppb
Barium	135-1	40.84	40.84	40.58	40.75	0.37	ppb
Barium	137-1	40.63	40.88	40.21	40.57	0.83	ppb
Beryllium	9-1	1.08	0.98	1.07	1.04	5.02	ppb
Bismuth	209-1				141		%
Bismuth	209-2				137		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	58.96	59.74	58.68	59.12	0.93	ppb
Cadmium	106-1	52.42	55.34	51.95	53.23	3.45	ppb
Cadmium	111-1	60.42	60.49	60.59	60.50	0.14	ppb
Calcium	43-1	15526.01	15865.82	15733.81	15708.55	1.09	ppb
Calcium	44-1	15104.10	15345.07	15395.41	15281.53	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.06	5.12	5.15	5.11	0.84	ppb
Cobalt	59-2	7.43	7.43	7.55	7.47	0.90	ppb
Copper	63-2	1583.38	1597.64	1606.73	1595.92	0.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				113		%
Iron	56-2	131992.03	132045.66	133150.66	132396.12	0.49	ppb
Iron	57-2	127635.84	129384.60	130408.17	129142.87	1.09	ppb
Iron	54-2	129409.87	131375.16	132064.16	130949.73	1.05	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:51:04 DataFile Name : 047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	29596.28	29126.19	28968.84	29230.43	1.12	ppb
Lead	207-1	28767.68	28689.89	29074.18	28843.91	0.70	ppb
Lead	208-1	29160.84	28966.74	28980.55	29036.04	0.37	ppb
Lithium	6-1				108		%
Magnesium	24-2	1332.01	1344.23	1352.85	1343.03	0.78	ppb
Manganese	55-2	38716.32	38922.22	39238.43	38958.99	0.68	ppb
Molybdenum	94-1	52.50	53.21	52.13	52.61	1.04	ppb
Molybdenum	95-1	63.08	63.29	63.16	63.18	0.17	ppb
Molybdenum	96-1	62.23	62.80	62.03	62.35	0.65	ppb
Molybdenum	97-1	62.38	63.09	62.35	62.61	0.67	ppb
Molybdenum	98-1	61.47	62.13	62.15	61.92	0.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.04	4.83	5.09	4.99	2.77	ppb
Phosphorus	31-2	1123.39	1147.90	1158.93	1143.40	1.59	ppb
Potassium	39-2	1327.81	1331.09	1347.26	1335.39	0.78	ppb
Rhodium	103-1				107		%
Rhodium	103-2				109		%
Scandium	45-1				108		%
Scandium	45-2				110		%
Selenium	82-1	10.63	10.94	10.46	10.68	2.26	ppb
Selenium	77-2	17.14	15.26	13.81	15.40	10.85	ppb
Selenium	78-2	10.84	11.78	9.70	10.77	9.66	ppb
Silicon	28-1	325.78	328.99	327.71	327.49	0.49	ppb
Silver	107-1	140.38	139.52	138.87	139.59	0.54	ppb
Silver	109-1	139.57	143.99	139.71	141.09	1.78	ppb
Sodium	23-2	193.86	193.75	198.95	195.52	1.52	ppb
Strontium	86-1	983.93	999.20	1003.53	995.55	1.03	ppb
Strontium	88-1	1002.91	1010.52	1008.67	1007.36	0.39	ppb
Sulfur	34-1	68965.38	73111.71	69926.76	70667.95	3.07	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	1.02	1.01	1.03	1.02	1.29	ppb
Thallium	205-1	1.00	1.01	1.01	1.01	0.12	ppb
Tin	118-1	5.41	5.40	5.41	5.41	0.10	ppb
Titanium	47-1	64.90	65.85	65.91	65.55	0.87	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:51:04 DataFile Name : 047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.91	0.92	0.92	1.09	ppb
Vanadium	51-2	14.50	14.49	14.82	14.60	1.27	ppb
Yttrium	89-1				111		%
Yttrium	89-2				111		%
Zinc	66-2	15312.64	15472.69	15426.13	15403.82	0.53	ppb
Zirconium	90-1	0.82	0.81	0.82	0.82	1.05	ppb
Zirconium	91-1	0.88	0.94	0.85	0.89	5.20	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:54:14 DataFile Name : 048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8494.82	8623.72	8651.48	8590.00	0.97	ppb
Antimony	121-1	20.90	20.55	20.52	20.65	1.02	ppb
Arsenic	75-2	132.51	130.14	129.38	130.68	1.25	ppb
Barium	135-1	212.09	212.86	209.72	211.56	0.78	ppb
Barium	137-1	210.02	212.02	210.53	210.86	0.49	ppb
Beryllium	9-1	1.22	1.11	1.02	1.12	9.04	ppb
Bismuth	209-1				121		%
Bismuth	209-2				118		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.49	11.67	12.04	11.73	2.38	ppb
Cadmium	106-1	6.55	9.67	6.10	7.44	26.11	ppb
Cadmium	111-1	11.39	11.48	11.38	11.42	0.49	ppb
Calcium	43-1	2618.79	2620.37	2651.85	2630.33	0.71	ppb
Calcium	44-1	2542.35	2577.33	2597.09	2572.26	1.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	69.89	70.68	70.72	70.43	0.67	ppb
Cobalt	59-2	10.64	10.58	10.63	10.62	0.30	ppb
Copper	63-2	836.59	839.09	838.74	838.14	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				111		%
Indium	115-1				112		%
Indium	115-2				110		%
Iron	56-2	101612.59	102381.57	103331.38	102441.85	0.84	ppb
Iron	57-2	99887.18	100775.65	101772.91	100811.91	0.94	ppb
Iron	54-2	102469.02	102690.87	102887.25	102682.38	0.20	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:54:14 DataFile Name : 048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	10649.09	10719.42	10585.23	10651.25	0.63	ppb
Lead	207-1	10302.63	10308.93	10187.11	10266.22	0.67	ppb
Lead	208-1	10382.67	10457.98	10298.83	10379.83	0.77	ppb
Lithium	6-1				112		%
Magnesium	24-2	5219.61	5241.42	5243.29	5234.77	0.25	ppb
Manganese	55-2	3819.91	3827.22	3853.32	3833.48	0.46	ppb
Molybdenum	94-1	62.55	62.59	63.34	62.83	0.70	ppb
Molybdenum	95-1	75.42	75.78	76.32	75.84	0.60	ppb
Molybdenum	96-1	74.01	75.16	75.13	74.76	0.88	ppb
Molybdenum	97-1	75.00	75.80	75.85	75.55	0.63	ppb
Molybdenum	98-1	74.70	75.31	75.69	75.23	0.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.56	15.76	15.43	15.59	1.07	ppb
Phosphorus	31-2	2308.42	2314.62	2408.22	2343.75	2.39	ppb
Potassium	39-2	2961.56	2916.74	2987.83	2955.38	1.22	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	2.85	2.92	2.70	2.82	4.01	ppb
Selenium	77-2	10.57	9.32	8.56	9.48	10.71	ppb
Selenium	78-2	5.31	3.41	4.93	4.55	22.10	ppb
Silicon	28-1	214.17	216.72	220.37	217.08	1.44	ppb
Silver	107-1	49.38	49.61	49.32	49.44	0.32	ppb
Silver	109-1	49.17	49.27	48.64	49.03	0.69	ppb
Sodium	23-2	279.16	282.31	286.44	282.64	1.29	ppb
Strontium	86-1	1026.41	1044.02	1029.69	1033.37	0.91	ppb
Strontium	88-1	1060.30	1038.95	1057.00	1052.08	1.09	ppb
Sulfur	34-1	14098.57	14144.17	14329.57	14190.77	0.86	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.53	0.52	0.54	0.53	2.42	ppb
Thallium	205-1	0.52	0.53	0.51	0.52	1.62	ppb
Tin	118-1	18.13	18.05	17.95	18.04	0.50	ppb
Titanium	47-1	207.94	206.51	209.79	208.08	0.79	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:54:14 DataFile Name : 048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.84	0.84	0.83	0.84	0.71	ppb
Vanadium	51-2	29.79	30.14	30.29	30.08	0.85	ppb
Yttrium	89-1				114		%
Yttrium	89-2				111		%
Zinc	66-2	3160.91	3161.94	3182.07	3168.31	0.38	ppb
Zirconium	90-1	0.35	0.35	0.35	0.35	0.35	ppb
Zirconium	91-1	0.37	0.36	0.39	0.38	3.57	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:57:17 DataFile Name : 049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10066.10	10227.23	10191.11	10161.48	0.83	ppb
Antimony	121-1	51.88	54.75	51.22	52.62	3.57	ppb
Arsenic	75-2	89.48	89.08	88.81	89.12	0.38	ppb
Barium	135-1	201.13	213.06	199.32	204.50	3.65	ppb
Barium	137-1	202.83	210.90	198.18	203.97	3.15	ppb
Beryllium	9-1	1.06	1.00	0.98	1.01	4.33	ppb
Bismuth	209-1				216		%
Bismuth	209-2				210		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	49.33	52.80	49.15	50.43	4.07	ppb
Cadmium	106-1	45.05	49.15	46.23	46.81	4.51	ppb
Cadmium	111-1	51.26	53.68	50.70	51.88	3.05	ppb
Calcium	43-1	4166.52	4336.13	4205.58	4236.08	2.10	ppb
Calcium	44-1	4132.12	4260.38	4029.27	4140.59	2.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.19	6.27	6.36	6.27	1.32	ppb
Cobalt	59-2	24.48	24.71	25.33	24.84	1.77	ppb
Copper	63-2	9171.41	9214.92	9372.81	9253.05	1.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				111		%
Indium	115-1				108		%
Indium	115-2				110		%
Iron	56-2	75512.88	75790.86	75995.78	75766.51	0.32	ppb
Iron	57-2	73559.41	74621.21	74224.96	74135.19	0.72	ppb
Iron	54-2	75728.33	76120.34	75786.67	75878.45	0.28	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:57:17 DataFile Name : 049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13103.90	13241.28	13028.09	13124.42	0.82	ppb
Lead	207-1	12568.95	12537.12	12404.94	12503.67	0.70	ppb
Lead	208-1	12787.30	12862.51	12646.29	12765.37	0.86	ppb
Lithium	6-1				109		%
Magnesium	24-2	5537.13	5697.75	5587.68	5607.52	1.46	ppb
Manganese	55-2	22880.08	22831.59	23043.96	22918.54	0.49	ppb
Molybdenum	94-1	80.59	83.65	80.72	81.65	2.12	ppb
Molybdenum	95-1	96.36	99.75	97.48	97.86	1.77	ppb
Molybdenum	96-1	94.98	98.91	95.22	96.37	2.28	ppb
Molybdenum	97-1	97.27	100.26	96.87	98.13	1.89	ppb
Molybdenum	98-1	94.66	98.39	95.92	96.32	1.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.61	8.50	8.62	8.58	0.81	ppb
Phosphorus	31-2	1476.60	1497.00	1484.87	1486.16	0.69	ppb
Potassium	39-2	1158.20	1178.00	1187.09	1174.43	1.26	ppb
Rhodium	103-1				108		%
Rhodium	103-2				111		%
Scandium	45-1				108		%
Scandium	45-2				111		%
Selenium	82-1	9.51	9.57	9.94	9.67	2.39	ppb
Selenium	77-2	15.79	14.98	18.27	16.35	10.48	ppb
Selenium	78-2	10.14	10.51	10.80	10.48	3.18	ppb
Silicon	28-1	287.54	295.21	287.50	290.08	1.53	ppb
Silver	107-1	181.83	193.25	180.49	185.19	3.79	ppb
Silver	109-1	180.98	191.59	179.67	184.08	3.55	ppb
Sodium	23-2	113.99	114.99	119.21	116.06	2.39	ppb
Strontium	86-1	954.39	971.59	953.67	959.88	1.06	ppb
Strontium	88-1	961.42	984.18	958.45	968.02	1.45	ppb
Sulfur	34-1	16171.82	16609.44	15756.51	16179.26	2.64	ppb
Terbium	159-1				111		%
Terbium	159-2				110		%
Thallium	203-1	0.29	0.29	0.29	0.29	1.30	ppb
Thallium	205-1	0.28	0.29	0.27	0.28	2.03	ppb
Tin	118-1	140.72	147.79	138.89	142.47	3.30	ppb
Titanium	47-1	62.50	64.47	62.31	63.09	1.89	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:57:17 DataFile Name : 049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	0.92	0.90	0.91	1.17	ppb
Vanadium	51-2	25.74	26.28	26.13	26.05	1.07	ppb
Yttrium	89-1				114		%
Yttrium	89-2				114		%
Zinc	66-2	8360.41	8460.42	8505.99	8442.27	0.88	ppb
Zirconium	90-1	0.76	0.75	0.75	0.75	0.46	ppb
Zirconium	91-1	0.77	0.78	0.76	0.77	1.46	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:00:24 DataFile Name : 050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4326.54	4373.85	4334.08	4344.82	0.58	ppb
Antimony	121-1	65.96	65.87	65.64	65.82	0.25	ppb
Arsenic	75-2	1581.73	1590.20	1593.56	1588.49	0.38	ppb
Barium	135-1	152.70	152.81	155.56	153.69	1.05	ppb
Barium	137-1	153.04	153.85	155.90	154.26	0.96	ppb
Beryllium	9-1	0.68	0.67	0.70	0.68	2.62	ppb
Bismuth	209-1				148		%
Bismuth	209-2				140		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	14.24	15.52	15.06	14.94	4.33	ppb
Cadmium	106-1	6.92	6.97	5.50	6.46	12.89	ppb
Cadmium	111-1	14.86	14.40	14.83	14.70	1.73	ppb
Calcium	43-1	219162.01	218937.03	219641.24	219246.76	0.16	ppb
Calcium	44-1	215421.32	217093.28	216942.52	216485.71	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.98	8.06	8.03	8.02	0.53	ppb
Cobalt	59-2	10.20	10.17	10.13	10.17	0.37	ppb
Copper	63-2	2619.60	2626.67	2609.02	2618.43	0.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	56-2	42885.50	43434.96	42909.28	43076.58	0.72	ppb
Iron	57-2	44021.64	44446.97	44408.98	44292.53	0.53	ppb
Iron	54-2	42710.41	43273.51	42865.27	42949.73	0.68	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:00:24 DataFile Name : 050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	9647.06	9838.96	10023.89	9836.64	1.92	ppb
Lead	207-1	9323.55	9393.22	9490.42	9402.40	0.89	ppb
Lead	208-1	9404.65	9499.82	9687.67	9530.71	1.51	ppb
Lithium	6-1				115		%
Magnesium	24-2	2544.04	2551.24	2535.06	2543.45	0.32	ppb
Manganese	55-2	2907.02	2943.69	2960.98	2937.23	0.94	ppb
Molybdenum	94-1	24.91	25.49	25.67	25.36	1.58	ppb
Molybdenum	95-1	29.13	29.19	29.84	29.38	1.34	ppb
Molybdenum	96-1	28.81	29.08	29.57	29.15	1.31	ppb
Molybdenum	97-1	28.90	29.73	29.87	29.50	1.78	ppb
Molybdenum	98-1	28.86	29.31	29.13	29.10	0.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.34	10.45	10.63	10.47	1.36	ppb
Phosphorus	31-2	774.25	770.28	762.59	769.04	0.77	ppb
Potassium	39-2	1029.73	1049.16	1040.52	1039.80	0.94	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				95		%
Selenium	82-1	5.84	5.99	6.06	5.96	1.83	ppb
Selenium	77-2	9.11	7.51	7.35	7.99	12.19	ppb
Selenium	78-2	4.62	5.70	5.76	5.36	11.93	ppb
Silicon	28-1	150.57	150.99	148.33	149.96	0.95	ppb
Silver	107-1	94.70	93.70	94.42	94.27	0.55	ppb
Silver	109-1	93.79	92.91	94.40	93.70	0.80	ppb
Sodium	23-2	218.90	222.52	221.42	220.95	0.84	ppb
Strontium	86-1	2188.74	2209.98	2241.10	2213.27	1.19	ppb
Strontium	88-1	2300.85	2310.33	2319.74	2310.30	0.41	ppb
Sulfur	34-1	14685.51	14934.82	14700.60	14773.64	0.95	ppb
Terbium	159-1				111		%
Terbium	159-2				106		%
Thallium	203-1	1.26	1.27	1.31	1.28	1.86	ppb
Thallium	205-1	1.22	1.22	1.28	1.24	2.74	ppb
Tin	118-1	82.27	82.89	83.02	82.73	0.48	ppb
Titanium	47-1	29.36	30.41	30.03	29.94	1.78	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:00:24 DataFile Name : 050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.56	0.58	0.58	0.57	2.37	ppb
Vanadium	51-2	13.05	13.29	13.25	13.20	0.98	ppb
Yttrium	89-1				108		%
Yttrium	89-2				101		%
Zinc	66-2	3178.51	3203.89	3173.46	3185.29	0.51	ppb
Zirconium	90-1	0.63	0.63	0.62	0.62	0.61	ppb
Zirconium	91-1	0.97	0.94	0.98	0.96	2.18	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:03:27 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6134.37	6173.88	6069.56	6125.94	0.86	ppb
Antimony	121-1	10.98	11.16	11.10	11.08	0.84	ppb
Arsenic	75-2	81.62	79.83	77.65	79.70	2.49	ppb
Barium	135-1	222.12	226.70	224.58	224.46	1.02	ppb
Barium	137-1	222.80	228.02	226.05	225.62	1.17	ppb
Beryllium	9-1	1.73	1.66	1.66	1.69	2.42	ppb
Bismuth	209-1				120		%
Bismuth	209-2				114		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.64	4.53	4.97	4.72	4.84	ppb
Cadmium	106-1	-4.16	-3.26	-1.62	-3.01		ppb
Cadmium	111-1	4.32	4.26	4.33	4.30	0.89	ppb
Calcium	43-1	3469.90	3516.13	3477.71	3487.91	0.71	ppb
Calcium	44-1	3347.40	3390.83	3394.11	3377.45	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11.25	10.87	11.05	11.06	1.69	ppb
Cobalt	59-2	5.99	5.98	5.97	5.98	0.19	ppb
Copper	63-2	407.17	406.20	401.56	404.98	0.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				110		%
Indium	115-2				108		%
Iron	56-2	53899.35	53489.32	53153.07	53513.92	0.70	ppb
Iron	57-2	52756.72	52876.22	52179.57	52604.17	0.71	ppb
Iron	54-2	53718.53	53210.54	53196.45	53375.17	0.56	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:03:27 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7680.49	7717.67	7730.03	7709.40	0.33	ppb
Lead	207-1	7493.15	7478.22	7539.58	7503.65	0.43	ppb
Lead	208-1	7554.98	7550.95	7583.08	7563.01	0.23	ppb
Lithium	6-1				112		%
Magnesium	24-2	3039.50	3016.54	3049.29	3035.11	0.55	ppb
Manganese	55-2	6834.32	6846.10	6819.70	6833.37	0.19	ppb
Molybdenum	94-1	29.58	29.30	29.85	29.58	0.93	ppb
Molybdenum	95-1	35.29	35.28	35.82	35.46	0.88	ppb
Molybdenum	96-1	34.98	34.88	35.50	35.12	0.94	ppb
Molybdenum	97-1	35.47	35.34	35.91	35.57	0.84	ppb
Molybdenum	98-1	35.18	35.19	35.41	35.26	0.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.29	3.30	3.25	3.28	0.79	ppb
Phosphorus	31-2	1720.06	1773.31	1758.37	1750.58	1.57	ppb
Potassium	39-2	880.91	884.50	882.84	882.75	0.20	ppb
Rhodium	103-1				107		%
Rhodium	103-2				110		%
Scandium	45-1				106		%
Scandium	45-2				107		%
Selenium	82-1	2.07	2.13	2.01	2.07	2.74	ppb
Selenium	77-2	8.71	8.16	8.08	8.32	4.10	ppb
Selenium	78-2	2.68	3.35	2.80	2.95	12.13	ppb
Silicon	28-1	151.08	150.71	149.42	150.40	0.58	ppb
Silver	107-1	26.04	26.43	26.18	26.22	0.77	ppb
Silver	109-1	25.98	26.10	25.83	25.97	0.52	ppb
Sodium	23-2	116.28	114.12	116.17	115.52	1.05	ppb
Strontium	86-1	1776.04	1768.02	1782.63	1775.56	0.41	ppb
Strontium	88-1	1835.22	1835.09	1799.84	1823.38	1.12	ppb
Sulfur	34-1	5349.86	5389.23	5260.50	5333.20	1.24	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.26	0.25	0.25	0.25	3.66	ppb
Thallium	205-1	0.24	0.26	0.25	0.25	2.69	ppb
Tin	118-1	1.68	1.66	1.65	1.67	0.79	ppb
Titanium	47-1	66.68	67.32	67.74	67.25	0.80	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:03:27 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.74	0.73	0.72	0.73	1.23	ppb
Vanadium	51-2	13.12	12.73	12.82	12.89	1.57	ppb
Yttrium	89-1				112		%
Yttrium	89-2				110		%
Zinc	66-2	1268.59	1266.93	1266.12	1267.21	0.10	ppb
Zirconium	90-1	0.23	0.23	0.25	0.23	4.64	ppb
Zirconium	91-1	0.28	0.26	0.27	0.27	3.65	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:06:33 DataFile Name : 052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1164.59	1176.49	1173.70	1171.60	0.53	ppb
Antimony	121-1	509.90	509.68	517.02	512.20	0.82	ppb
Arsenic	75-2	3012.59	3027.97	2959.61	3000.06	1.20	ppb
Barium	135-1	221.40	223.65	228.90	224.65	1.71	ppb
Barium	137-1	224.65	226.15	227.36	226.05	0.60	ppb
Beryllium	9-1	0.11	0.10	0.09	0.10	9.66	ppb
Bismuth	209-1				394		%
Bismuth	209-2				372		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	10.30	11.24	10.74	10.76	4.37	ppb
Cadmium	106-1	1.14	3.87	3.82	2.94	52.94	ppb
Cadmium	111-1	9.50	9.50	9.73	9.58	1.38	ppb
Calcium	43-1	255.71	251.21	264.27	257.06	2.58	ppb
Calcium	44-1	240.49	245.48	242.71	242.89	1.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.59	1.53	1.53	1.55	2.09	ppb
Cobalt	59-2	1.98	1.95	1.99	1.97	1.17	ppb
Copper	63-2	7993.68	7978.29	7971.53	7981.17	0.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				117		%
Indium	115-2				115		%
Iron	56-2	145120.22	143693.81	143706.98	144173.67	0.57	ppb
Iron	57-2	142695.29	143206.32	141462.51	142454.70	0.63	ppb
Iron	54-2	144450.77	144064.45	144317.19	144277.47	0.14	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:06:33 DataFile Name : 052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	16566.43	16224.43	16347.75	16379.54	1.06	ppb
Lead	207-1	16110.33	15678.48	16022.21	15937.01	1.43	ppb
Lead	208-1	16272.96	15977.32	16083.02	16111.10	0.93	ppb
Lithium	6-1				101		%
Magnesium	24-2	232.23	247.81	228.05	236.03	4.41	ppb
Manganese	55-2	1275.84	1274.83	1276.82	1275.83	0.08	ppb
Molybdenum	94-1	169.92	171.16	169.31	170.13	0.55	ppb
Molybdenum	95-1	207.43	208.71	204.70	206.95	0.99	ppb
Molybdenum	96-1	201.78	211.08	207.73	206.86	2.28	ppb
Molybdenum	97-1	206.57	208.82	206.50	207.30	0.63	ppb
Molybdenum	98-1	210.17	212.09	210.54	210.93	0.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.88	0.85	0.77	0.84	6.92	ppb
Phosphorus	31-2	827.64	805.48	796.02	809.71	2.00	ppb
Potassium	39-2	3940.02	3929.52	3944.24	3937.93	0.19	ppb
Rhodium	103-1				111		%
Rhodium	103-2				111		%
Scandium	45-1				108		%
Scandium	45-2				110		%
Selenium	82-1	16.20	17.07	16.31	16.53	2.86	ppb
Selenium	77-2	21.96	19.17	19.46	20.20	7.58	ppb
Selenium	78-2	16.93	16.48	16.78	16.73	1.37	ppb
Silicon	28-1	67.41	69.52	68.65	68.52	1.55	ppb
Silver	107-1	168.54	169.65	171.82	170.00	0.98	ppb
Silver	109-1	168.98	167.72	170.41	169.04	0.80	ppb
Sodium	23-2	137.08	150.77	137.65	141.84	5.46	ppb
Strontium	86-1	1092.31	1115.89	1100.90	1103.03	1.08	ppb
Strontium	88-1	1130.96	1141.07	1130.25	1134.09	0.53	ppb
Sulfur	34-1	39792.05	41205.28	40698.34	40565.22	1.76	ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	1.15	1.14	1.15	1.15	0.30	ppb
Thallium	205-1	1.13	1.12	1.12	1.12	0.61	ppb
Tin	118-1	68.18	70.14	70.77	69.69	1.94	ppb
Titanium	47-1	6.74	6.77	6.70	6.74	0.54	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:06:33 DataFile Name : 052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.14	0.14	0.14	0.14	0.12	ppb
Vanadium	51-2	23.14	23.48	23.24	23.29	0.76	ppb
Yttrium	89-1				113		%
Yttrium	89-2				110		%
Zinc	66-2	3077.35	3068.87	3087.60	3077.94	0.30	ppb
Zirconium	90-1	0.11	0.10	0.10	0.10	5.98	ppb
Zirconium	91-1	0.65	0.69	0.65	0.66	3.34	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:09:34 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2381.92	2398.05	2373.35	2384.44	0.53	ppb
Antimony	121-1	226.30	232.19	232.76	230.42	1.55	ppb
Arsenic	75-2	1391.49	1387.50	1399.36	1392.78	0.43	ppb
Barium	135-1	110.98	112.54	113.37	112.29	1.08	ppb
Barium	137-1	111.76	111.80	112.86	112.14	0.55	ppb
Beryllium	9-1	0.17	0.21	0.18	0.19	10.05	ppb
Bismuth	209-1				275		%
Bismuth	209-2				266		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	91.15	91.13	93.28	91.85	1.34	ppb
Cadmium	106-1	85.94	85.73	86.07	85.92	0.20	ppb
Cadmium	111-1	92.96	94.74	95.02	94.24	1.19	ppb
Calcium	43-1	826.47	848.67	872.70	849.28	2.72	ppb
Calcium	44-1	844.19	844.23	844.80	844.41	0.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.15	3.21	3.29	3.22	2.18	ppb
Cobalt	59-2	10.79	10.92	11.00	10.90	0.99	ppb
Copper	63-2	6771.83	6743.60	6848.77	6788.07	0.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				111		%
Indium	115-1				117		%
Indium	115-2				114		%
Iron	56-2	151028.93	151498.90	151555.44	151361.09	0.19	ppb
Iron	57-2	147885.79	148749.41	148846.66	148493.95	0.36	ppb
Iron	54-2	150345.75	150192.85	151541.84	150693.48	0.49	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:09:34 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	22123.46	22163.86	21854.43	22047.25	0.76	ppb
Lead	207-1	21010.95	21250.60	21300.41	21187.32	0.73	ppb
Lead	208-1	21482.03	21772.63	21499.28	21584.65	0.76	ppb
Lithium	6-1				103		%
Magnesium	24-2	818.44	817.00	818.08	817.84	0.09	ppb
Manganese	55-2	3583.86	3566.48	3584.95	3578.43	0.29	ppb
Molybdenum	94-1	146.53	146.93	145.04	146.17	0.68	ppb
Molybdenum	95-1	177.71	176.77	178.93	177.80	0.61	ppb
Molybdenum	96-1	175.49	174.64	174.00	174.71	0.43	ppb
Molybdenum	97-1	179.25	177.93	178.63	178.60	0.37	ppb
Molybdenum	98-1	180.63	180.87	182.45	181.32	0.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.20	3.01	2.97	3.06	3.92	ppb
Phosphorus	31-2	747.02	746.11	725.35	739.49	1.66	ppb
Potassium	39-2	3618.97	3571.66	3594.72	3595.12	0.66	ppb
Rhodium	103-1				110		%
Rhodium	103-2				111		%
Scandium	45-1				108		%
Scandium	45-2				110		%
Selenium	82-1	13.45	13.74	12.92	13.37	3.11	ppb
Selenium	77-2	17.28	13.16	16.29	15.58	13.83	ppb
Selenium	78-2	13.24	12.20	13.64	13.02	5.72	ppb
Silicon	28-1	74.89	75.38	75.79	75.35	0.60	ppb
Silver	107-1	185.40	185.53	187.55	186.16	0.65	ppb
Silver	109-1	181.85	189.10	185.62	185.53	1.95	ppb
Sodium	23-2	135.96	137.29	136.08	136.44	0.54	ppb
Strontium	86-1	792.16	797.42	788.30	792.63	0.58	ppb
Strontium	88-1	806.00	804.50	805.17	805.22	0.09	ppb
Sulfur	34-1	59052.91	59954.54	60186.16	59731.20	1.00	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	1.21	1.23	1.21	1.22	0.92	ppb
Thallium	205-1	1.19	1.19	1.19	1.19	0.36	ppb
Tin	118-1	65.59	66.23	66.77	66.20	0.89	ppb
Titanium	47-1	8.52	8.95	9.00	8.82	3.04	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:09:34 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.33	0.34	0.34	0.34	1.82	ppb
Vanadium	51-2	21.89	22.25	22.09	22.08	0.82	ppb
Yttrium	89-1				113		%
Yttrium	89-2				111		%
Zinc	66-2	20215.98	20166.75	20277.83	20220.19	0.28	ppb
Zirconium	90-1	0.17	0.17	0.15	0.16	4.63	ppb
Zirconium	91-1	0.48	0.46	0.45	0.46	2.99	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:12:41 DataFile Name : 054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6954.72	7023.12	6999.93	6992.59	0.50	ppb
Antimony	121-1	79.75	79.60	78.63	79.33	0.77	ppb
Arsenic	75-2	234.72	239.65	241.13	238.50	1.41	ppb
Barium	135-1	289.66	287.48	286.41	287.85	0.58	ppb
Barium	137-1	306.03	302.17	297.19	301.80	1.47	ppb
Beryllium	9-1	0.40	0.43	0.41	0.41	3.99	ppb
Bismuth	209-1				220		%
Bismuth	209-2				210		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.34	7.65	8.39	8.13	5.08	ppb
Cadmium	106-1	3.10	2.21	-0.06	1.75	93.29	ppb
Cadmium	111-1	7.86	8.08	7.82	7.92	1.76	ppb
Calcium	43-1	2407.83	2448.48	2411.41	2422.57	0.93	ppb
Calcium	44-1	2399.60	2408.23	2407.71	2405.18	0.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22.75	22.66	22.66	22.69	0.23	ppb
Cobalt	59-2	9.73	9.79	9.62	9.71	0.90	ppb
Copper	63-2	3873.34	3859.58	3838.41	3857.11	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				109		%
Indium	115-1				113		%
Indium	115-2				110		%
Iron	56-2	157708.91	160214.79	158261.85	158728.52	0.83	ppb
Iron	57-2	158275.03	155978.01	154042.61	156098.55	1.36	ppb
Iron	54-2	159356.73	158986.37	158488.74	158943.95	0.27	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:12:41 DataFile Name : 054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24404.10	24187.77	24288.96	24293.61	0.45	ppb
Lead	207-1	23318.89	23260.13	23030.20	23203.07	0.66	ppb
Lead	208-1	23809.96	23597.08	23607.57	23671.54	0.51	ppb
Lithium	6-1				104		%
Magnesium	24-2	3894.46	3827.05	3824.37	3848.63	1.03	ppb
Manganese	55-2	2069.45	2078.17	2072.67	2073.43	0.21	ppb
Molybdenum	94-1	79.54	79.29	78.35	79.06	0.79	ppb
Molybdenum	95-1	95.25	95.72	94.13	95.03	0.86	ppb
Molybdenum	96-1	94.47	95.64	93.51	94.54	1.12	ppb
Molybdenum	97-1	95.17	95.31	94.56	95.02	0.42	ppb
Molybdenum	98-1	94.88	95.09	92.92	94.30	1.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.20	15.23	15.59	15.34	1.43	ppb
Phosphorus	31-2	2407.50	2376.71	2380.26	2388.16	0.71	ppb
Potassium	39-2	1332.19	1323.33	1322.86	1326.13	0.40	ppb
Rhodium	103-1				110		%
Rhodium	103-2				111		%
Scandium	45-1				109		%
Scandium	45-2				110		%
Selenium	82-1	11.59	12.19	10.48	11.42	7.61	ppb
Selenium	77-2	11.97	18.30	13.79	14.69	22.20	ppb
Selenium	78-2	14.40	11.87	13.90	13.39	10.01	ppb
Silicon	28-1	104.93	105.81	106.01	105.58	0.55	ppb
Silver	107-1	160.24	159.52	158.32	159.36	0.61	ppb
Silver	109-1	161.04	155.15	158.30	158.17	1.86	ppb
Sodium	23-2	217.86	219.03	217.99	218.29	0.29	ppb
Strontium	86-1	959.08	966.31	945.01	956.80	1.13	ppb
Strontium	88-1	971.00	974.35	958.91	968.09	0.84	ppb
Sulfur	34-1	22898.63	23838.77	22755.00	23164.13	2.54	ppb
Terbium	159-1				115		%
Terbium	159-2				109		%
Thallium	203-1	0.28	0.28	0.29	0.29	1.87	ppb
Thallium	205-1	0.28	0.28	0.28	0.28	0.36	ppb
Tin	118-1	55.94	55.83	55.32	55.70	0.59	ppb
Titanium	47-1	117.91	117.43	118.08	117.81	0.28	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:12:41 DataFile Name : 054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.60	0.59	0.59	0.59	0.74	ppb
Vanadium	51-2	29.45	29.17	29.20	29.27	0.53	ppb
Yttrium	89-1				114		%
Yttrium	89-2				113		%
Zinc	66-2	2060.39	2073.67	2059.93	2064.66	0.38	ppb
Zirconium	90-1	0.54	0.55	0.52	0.53	2.81	ppb
Zirconium	91-1	0.63	0.63	0.60	0.62	1.92	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:15:45 DataFile Name : 055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13708.45	13731.22	13629.42	13689.70	0.39	ppb
Antimony	121-1	13.95	14.13	14.64	14.24	2.50	ppb
Arsenic	75-2	94.22	91.37	93.18	92.92	1.55	ppb
Barium	135-1	255.32	261.63	268.50	261.82	2.52	ppb
Barium	137-1	255.08	261.90	268.90	261.96	2.64	ppb
Beryllium	9-1	0.92	0.91	1.00	0.94	5.48	ppb
Bismuth	209-1				122		%
Bismuth	209-2				117		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.48	24.01	24.72	24.07	2.57	ppb
Cadmium	106-1	17.46	19.43	20.13	19.01	7.27	ppb
Cadmium	111-1	23.30	24.29	24.92	24.17	3.37	ppb
Calcium	43-1	4526.79	4609.86	4722.13	4619.60	2.12	ppb
Calcium	44-1	4405.97	4526.76	4569.26	4500.66	1.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13.48	13.42	13.41	13.44	0.29	ppb
Cobalt	59-2	15.37	15.11	15.08	15.19	1.07	ppb
Copper	63-2	744.48	745.70	731.95	740.71	1.03	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				111		%
Indium	115-1				114		%
Indium	115-2				111		%
Iron	56-2	86855.67	86355.58	85716.24	86309.16	0.66	ppb
Iron	57-2	84747.43	84374.98	83637.62	84253.34	0.67	ppb
Iron	54-2	87104.18	85582.27	85391.16	86025.87	1.09	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:15:45 DataFile Name : 055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5040.24	5252.17	5319.55	5203.99	2.80	ppb
Lead	207-1	4983.02	5031.14	5217.49	5077.22	2.44	ppb
Lead	208-1	4990.80	5111.86	5232.81	5111.82	2.37	ppb
Lithium	6-1				106		%
Magnesium	24-2	8899.95	8935.43	8709.18	8848.19	1.38	ppb
Manganese	55-2	2928.55	2929.04	2928.70	2928.76	0.01	ppb
Molybdenum	94-1	19.28	20.02	20.08	19.79	2.24	ppb
Molybdenum	95-1	21.79	22.87	22.93	22.53	2.85	ppb
Molybdenum	96-1	22.08	23.63	23.32	23.01	3.57	ppb
Molybdenum	97-1	21.95	23.36	22.96	22.76	3.20	ppb
Molybdenum	98-1	21.47	23.11	23.06	22.54	4.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.28	9.96	10.24	10.16	1.67	ppb
Phosphorus	31-2	3751.06	3723.79	3664.81	3713.22	1.19	ppb
Potassium	39-2	2452.24	2508.28	2476.08	2478.87	1.13	ppb
Rhodium	103-1				111		%
Rhodium	103-2				111		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	2.43	2.18	2.52	2.37	7.46	ppb
Selenium	77-2	10.14	10.95	9.75	10.28	5.97	ppb
Selenium	78-2	3.96	3.04	4.11	3.71	15.60	ppb
Silicon	28-1	173.59	177.10	183.06	177.92	2.69	ppb
Silver	107-1	24.75	25.35	25.80	25.30	2.06	ppb
Silver	109-1	24.49	25.24	25.75	25.16	2.52	ppb
Sodium	23-2	272.26	270.04	270.30	270.87	0.45	ppb
Strontium	86-1	1431.89	1506.33	1503.37	1480.53	2.85	ppb
Strontium	88-1	1471.40	1572.31	1557.28	1533.67	3.55	ppb
Sulfur	34-1	10292.16	10651.68	10741.67	10561.83	2.25	ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	0.35	0.38	0.40	0.38	7.06	ppb
Thallium	205-1	0.36	0.37	0.37	0.37	2.47	ppb
Tin	118-1	3.43	3.54	3.57	3.51	2.18	ppb
Titanium	47-1	169.65	175.85	175.45	173.65	2.00	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:15:45 DataFile Name : 055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.48	1.56	1.58	1.54	3.25	ppb
Vanadium	51-2	43.46	43.56	43.17	43.40	0.47	ppb
Yttrium	89-1				118		%
Yttrium	89-2				113		%
Zinc	66-2	6089.17	6084.25	5994.38	6055.93	0.88	ppb
Zirconium	90-1	0.60	0.64	0.65	0.63	4.25	ppb
Zirconium	91-1	0.63	0.65	0.67	0.65	3.22	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:18:49 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3671.48	3702.76	3735.03	3703.09	0.86	ppb
Antimony	121-1	683.56	680.58	687.75	683.96	0.53	ppb
Arsenic	75-2	3266.58	3271.36	3190.98	3242.97	1.39	ppb
Barium	135-1	246.60	245.60	249.30	247.17	0.78	ppb
Barium	137-1	247.80	247.06	249.99	248.29	0.61	ppb
Beryllium	9-1	0.40	0.38	0.33	0.37	10.59	ppb
Bismuth	209-1				627		%
Bismuth	209-2				596		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	32.85	32.92	33.84	33.21	1.66	ppb
Cadmium	106-1	24.93	22.34	27.63	24.97	10.59	ppb
Cadmium	111-1	31.08	30.68	30.86	30.87	0.66	ppb
Calcium	43-1	2259.09	2286.00	2274.84	2273.31	0.59	ppb
Calcium	44-1	2193.49	2193.80	2211.53	2199.61	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.96	9.81	9.91	9.89	0.80	ppb
Cobalt	59-2	4.92	4.91	5.02	4.95	1.27	ppb
Copper	63-2	14850.99	14801.57	14914.00	14855.52	0.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				111		%
Indium	115-1				124		%
Indium	115-2				120		%
Iron	56-2	206592.68	210472.42	207847.26	208304.12	0.95	ppb
Iron	57-2	202102.50	203655.33	203227.75	202995.19	0.40	ppb
Iron	54-2	208324.18	208781.78	208646.17	208584.04	0.11	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:18:49 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	21980.65	22064.03	21686.68	21910.45	0.90	ppb
Lead	207-1	21101.68	21344.73	20658.95	21035.12	1.65	ppb
Lead	208-1	21286.96	21738.74	21104.11	21376.60	1.53	ppb
Lithium	6-1				95		%
Magnesium	24-2	1157.98	1169.27	1167.48	1164.91	0.52	ppb
Manganese	55-2	2689.13	2730.99	2703.42	2707.85	0.79	ppb
Molybdenum	94-1	470.05	478.47	470.82	473.11	0.98	ppb
Molybdenum	95-1	573.49	578.16	578.30	576.65	0.47	ppb
Molybdenum	96-1	562.20	566.43	560.29	562.97	0.56	ppb
Molybdenum	97-1	575.66	575.03	566.84	572.51	0.86	ppb
Molybdenum	98-1	578.54	579.88	566.00	574.81	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.20	3.42	3.46	3.36	4.17	ppb
Phosphorus	31-2	1228.43	1247.57	1248.24	1241.42	0.91	ppb
Potassium	39-2	2411.53	2412.47	2420.80	2414.93	0.21	ppb
Rhodium	103-1				112		%
Rhodium	103-2				113		%
Scandium	45-1				108		%
Scandium	45-2				113		%
Selenium	82-1	31.10	29.59	29.91	30.20	2.63	ppb
Selenium	77-2	37.36	39.03	34.00	36.80	6.96	ppb
Selenium	78-2	32.72	30.49	32.57	31.93	3.90	ppb
Silicon	28-1	99.44	98.97	100.27	99.56	0.66	ppb
Silver	107-1	156.29	158.70	156.91	157.30	0.80	ppb
Silver	109-1	154.86	156.11	157.02	156.00	0.69	ppb
Sodium	23-2	211.21	215.59	217.09	214.63	1.42	ppb
Strontium	86-1	7411.04	7406.11	7357.57	7391.57	0.40	ppb
Strontium	88-1	7670.83	7720.36	7735.99	7709.06	0.44	ppb
Sulfur	34-1	46571.79	46202.73	46429.85	46401.46	0.40	ppb
Terbium	159-1				116		%
Terbium	159-2				110		%
Thallium	203-1	0.57	0.59	0.57	0.57	1.69	ppb
Thallium	205-1	0.58	0.58	0.56	0.57	1.48	ppb
Tin	118-1	84.62	84.65	85.08	84.78	0.30	ppb
Titanium	47-1	38.86	39.18	39.24	39.10	0.52	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:18:49 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.45	0.46	0.44	0.45	2.18	ppb
Vanadium	51-2	32.96	33.07	32.93	32.98	0.22	ppb
Yttrium	89-1				115		%
Yttrium	89-2				113		%
Zinc	66-2	7776.47	7833.26	7782.10	7797.28	0.40	ppb
Zirconium	90-1	0.74	0.75	0.74	0.74	0.79	ppb
Zirconium	91-1	1.40	1.41	1.37	1.39	1.32	ppb

LB Number :LB134172Operator :Jaswal

Lab Sample ID :P5388-12Instrumnet Name :P7

Client Sample ID :MH2D59Dilution Factor :1

Date & Time Acquired :2025-01-06 16:21:49DataFile Name :057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8454.38	8556.86	8354.17	8455.14	1.20	ppb
Antimony	121-1	12.46	12.29	12.40	12.38	0.67	ppb
Arsenic	75-2	56.80	56.53	56.59	56.64	0.25	ppb
Barium	135-1	151.50	151.20	151.97	151.56	0.26	ppb
Barium	137-1	151.97	150.06	152.19	151.41	0.78	ppb
Beryllium	9-1	1.92	1.80	1.99	1.90	5.06	ppb
Bismuth	209-1				117		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.97	7.79	8.11	7.95	2.01	ppb
Cadmium	106-1	2.13	3.48	1.41	2.34	45.00	ppb
Cadmium	111-1	7.21	7.29	7.27	7.26	0.53	ppb
Calcium	43-1	2671.54	2709.95	2728.86	2703.45	1.08	ppb
Calcium	44-1	2596.56	2669.39	2657.42	2641.13	1.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.10	8.95	9.00	9.02	0.82	ppb
Cobalt	59-2	8.06	8.10	8.24	8.13	1.18	ppb
Copper	63-2	598.15	599.07	595.59	597.60	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				111		%
Indium	115-1				114		%
Indium	115-2				111		%
Iron	56-2	51457.28	50932.15	50649.64	51013.02	0.80	ppb
Iron	57-2	50636.53	50383.55	49089.24	50036.44	1.66	ppb
Iron	54-2	51539.80	51401.47	50846.11	51262.46	0.72	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-12 Instrumnet Name : P7
Client Sample ID : MH2D59 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:21:49 DataFile Name : 057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	3731.27	3684.54	3691.57	3702.46	0.68	ppb
Lead	207-1	3622.34	3600.60	3573.76	3598.90	0.68	ppb
Lead	208-1	3645.94	3620.14	3624.66	3630.25	0.38	ppb
Lithium	6-1				101		%
Magnesium	24-2	4665.11	4556.64	4529.60	4583.78	1.56	ppb
Manganese	55-2	3317.85	3287.71	3260.38	3288.65	0.87	ppb
Molybdenum	94-1	31.38	31.58	31.08	31.35	0.80	ppb
Molybdenum	95-1	37.68	38.21	37.71	37.86	0.79	ppb
Molybdenum	96-1	37.23	37.48	37.33	37.35	0.34	ppb
Molybdenum	97-1	37.55	38.42	38.20	38.06	1.19	ppb
Molybdenum	98-1	37.37	37.92	37.67	37.65	0.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.15	6.14	6.12	6.14	0.20	ppb
Phosphorus	31-2	1772.84	1793.63	1745.82	1770.76	1.35	ppb
Potassium	39-2	1155.70	1159.43	1142.53	1152.55	0.77	ppb
Rhodium	103-1				113		%
Rhodium	103-2				112		%
Scandium	45-1				110		%
Scandium	45-2				110		%
Selenium	82-1	1.79	1.46	1.50	1.58	11.47	ppb
Selenium	77-2	7.52	7.09	7.48	7.36	3.23	ppb
Selenium	78-2	3.92	2.85	4.52	3.76	22.53	ppb
Silicon	28-1	152.31	154.01	155.33	153.88	0.99	ppb
Silver	107-1	18.47	18.33	18.29	18.36	0.51	ppb
Silver	109-1	18.43	18.31	18.06	18.27	1.04	ppb
Sodium	23-2	122.75	122.64	119.18	121.52	1.67	ppb
Strontium	86-1	550.07	569.38	558.30	559.25	1.73	ppb
Strontium	88-1	555.85	564.99	557.20	559.35	0.88	ppb
Sulfur	34-1	4061.82	4152.71	4141.18	4118.57	1.20	ppb
Terbium	159-1				116		%
Terbium	159-2				111		%
Thallium	203-1	0.22	0.23	0.21	0.22	3.52	ppb
Thallium	205-1	0.23	0.22	0.22	0.22	3.30	ppb
Tin	118-1	2.29	2.26	2.27	2.27	0.82	ppb
Titanium	47-1	151.82	154.54	155.31	153.89	1.19	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-12 Instrumnet Name : P7
Client Sample ID : MH2D59 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:21:49 DataFile Name : 057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.76	0.75	0.77	0.76	1.13	ppb
Vanadium	51-2	21.77	21.73	21.87	21.79	0.34	ppb
Yttrium	89-1				118		%
Yttrium	89-2				115		%
Zinc	66-2	2020.48	2045.39	2043.34	2036.40	0.68	ppb
Zirconium	90-1	0.22	0.22	0.22	0.22	1.91	ppb
Zirconium	91-1	0.23	0.23	0.23	0.23	1.80	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-13 Instrumnet Name : P7
Client Sample ID : MH2D62 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:24:54 DataFile Name : 058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6832.36	6827.13	6852.75	6837.41	0.20	ppb
Antimony	121-1	6.91	6.80	7.04	6.92	1.74	ppb
Arsenic	75-2	47.57	48.27	48.39	48.08	0.93	ppb
Barium	135-1	160.37	163.51	166.46	163.45	1.86	ppb
Barium	137-1	161.92	161.74	165.36	163.00	1.25	ppb
Beryllium	9-1	0.69	0.62	0.79	0.70	12.35	ppb
Bismuth	209-1				117		%
Bismuth	209-2				114		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.71	5.54	6.25	5.84	6.36	ppb
Cadmium	106-1	-0.71	-1.73	-1.48	-1.31		ppb
Cadmium	111-1	5.32	5.47	5.62	5.47	2.78	ppb
Calcium	43-1	3164.30	3247.12	3303.08	3238.16	2.16	ppb
Calcium	44-1	3210.32	3234.84	3212.57	3219.24	0.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.01	7.06	7.04	7.04	0.33	ppb
Cobalt	59-2	6.07	5.98	5.91	5.99	1.38	ppb
Copper	63-2	355.89	351.79	356.01	354.56	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				111		%
Indium	115-1				113		%
Indium	115-2				111		%
Iron	56-2	41328.64	41485.02	41518.64	41444.10	0.24	ppb
Iron	57-2	40559.88	41003.01	40356.03	40639.64	0.81	ppb
Iron	54-2	41391.60	41263.08	41338.33	41331.00	0.16	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-13 Instrumnet Name : P7
Client Sample ID : MH2D62 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:24:54 DataFile Name : 058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2060.27	2096.82	2086.47	2081.19	0.91	ppb
Lead	207-1	1979.63	2016.72	2007.17	2001.17	0.96	ppb
Lead	208-1	2014.16	2028.25	2037.57	2026.66	0.58	ppb
Lithium	6-1				100		%
Magnesium	24-2	4462.08	4525.24	4497.01	4494.78	0.70	ppb
Manganese	55-2	1634.86	1632.88	1626.38	1631.38	0.27	ppb
Molybdenum	94-1	24.12	23.96	24.47	24.18	1.08	ppb
Molybdenum	95-1	29.03	29.19	29.19	29.14	0.32	ppb
Molybdenum	96-1	28.73	28.75	28.97	28.81	0.46	ppb
Molybdenum	97-1	28.94	29.26	29.35	29.18	0.72	ppb
Molybdenum	98-1	29.09	28.66	28.99	28.92	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.10	5.27	5.34	5.24	2.30	ppb
Phosphorus	31-2	1592.42	1609.32	1587.38	1596.37	0.72	ppb
Potassium	39-2	909.32	918.14	921.69	916.38	0.70	ppb
Rhodium	103-1				112		%
Rhodium	103-2				113		%
Scandium	45-1				109		%
Scandium	45-2				110		%
Selenium	82-1	1.13	1.03	0.89	1.02	11.97	ppb
Selenium	77-2	4.65	5.24	6.48	5.46	17.19	ppb
Selenium	78-2	1.66	0.94	2.38	1.66	43.55	ppb
Silicon	28-1	128.35	127.60	131.49	129.15	1.60	ppb
Silver	107-1	11.78	12.10	12.16	12.01	1.70	ppb
Silver	109-1	11.92	11.78	12.06	11.92	1.17	ppb
Sodium	23-2	81.93	81.53	83.08	82.18	0.98	ppb
Strontium	86-1	507.39	504.51	511.47	507.79	0.69	ppb
Strontium	88-1	513.55	511.73	512.35	512.54	0.18	ppb
Sulfur	34-1	2016.31	2047.49	2189.73	2084.51	4.43	ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	0.27	0.26	0.26	0.26	1.68	ppb
Thallium	205-1	0.25	0.25	0.26	0.25	1.56	ppb
Tin	118-1	1.00	0.98	1.04	1.01	3.43	ppb
Titanium	47-1	83.71	84.24	85.72	84.56	1.23	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-13 Instrumnet Name : P7
Client Sample ID : MH2D62 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:24:54 DataFile Name : 058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.74	0.75	0.74	0.74	1.16	ppb
Vanadium	51-2	17.96	18.28	18.06	18.10	0.92	ppb
Yttrium	89-1				115		%
Yttrium	89-2				112		%
Zinc	66-2	1568.58	1587.04	1585.82	1580.48	0.65	ppb
Zirconium	90-1	0.28	0.29	0.27	0.28	3.21	ppb
Zirconium	91-1	0.30	0.28	0.30	0.29	5.25	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:27:58 DataFile Name : 059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9169.22	9056.93	9025.00	9083.72	0.83	ppb
Antimony	121-1	10.03	10.13	10.41	10.19	1.96	ppb
Arsenic	75-2	72.32	73.06	74.22	73.20	1.31	ppb
Barium	135-1	151.29	152.64	155.60	153.18	1.44	ppb
Barium	137-1	151.37	151.81	157.12	153.43	2.09	ppb
Beryllium	9-1	1.46	1.55	1.39	1.47	5.50	ppb
Bismuth	209-1				116		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	31.84	31.16	34.10	32.37	4.77	ppb
Cadmium	106-1	27.60	27.85	28.63	28.03	1.91	ppb
Cadmium	111-1	34.08	33.96	34.39	34.14	0.66	ppb
Calcium	43-1	20312.44	21035.30	20880.37	20742.71	1.83	ppb
Calcium	44-1	19916.91	20606.11	20301.72	20274.91	1.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.61	14.92	14.83	14.79	1.08	ppb
Cobalt	59-2	15.53	15.53	15.25	15.43	1.06	ppb
Copper	63-2	571.43	565.69	564.55	567.22	0.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				112		%
Indium	115-1				112		%
Indium	115-2				112		%
Iron	56-2	59205.98	59072.93	59452.49	59243.80	0.33	ppb
Iron	57-2	58149.26	58258.91	58239.38	58215.85	0.10	ppb
Iron	54-2	59194.89	58997.99	59298.12	59163.66	0.26	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:27:58 DataFile Name : 059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4433.71	4468.95	4427.37	4443.35	0.50	ppb
Lead	207-1	4213.91	4218.76	4253.33	4228.67	0.51	ppb
Lead	208-1	4306.43	4306.95	4324.31	4312.56	0.24	ppb
Lithium	6-1				97		%
Magnesium	24-2	5040.71	5038.89	4989.06	5022.89	0.58	ppb
Manganese	55-2	27381.17	27307.56	27392.63	27360.45	0.17	ppb
Molybdenum	94-1	57.92	58.87	58.61	58.47	0.84	ppb
Molybdenum	95-1	69.97	70.11	70.88	70.32	0.70	ppb
Molybdenum	96-1	68.47	68.31	69.67	68.81	1.08	ppb
Molybdenum	97-1	69.91	70.18	70.05	70.04	0.19	ppb
Molybdenum	98-1	68.71	68.96	69.90	69.19	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	17.73	17.84	17.70	17.76	0.42	ppb
Phosphorus	31-2	1539.18	1486.32	1498.65	1508.05	1.83	ppb
Potassium	39-2	1790.86	1804.24	1799.21	1798.10	0.38	ppb
Rhodium	103-1				111		%
Rhodium	103-2				112		%
Scandium	45-1				109		%
Scandium	45-2				111		%
Selenium	82-1	1.61	1.76	1.61	1.66	5.20	ppb
Selenium	77-2	8.36	6.51	5.14	6.67	24.26	ppb
Selenium	78-2	3.96	3.44	2.84	3.41	16.52	ppb
Silicon	28-1	160.76	161.28	162.56	161.53	0.57	ppb
Silver	107-1	27.57	27.62	28.39	27.86	1.65	ppb
Silver	109-1	27.54	27.31	28.19	27.68	1.65	ppb
Sodium	23-2	86.01	85.25	86.28	85.85	0.62	ppb
Strontium	86-1	976.47	973.28	979.02	976.26	0.29	ppb
Strontium	88-1	970.12	982.37	1022.32	991.60	2.75	ppb
Sulfur	34-1	37242.37	36900.00	37626.93	37256.43	0.98	ppb
Terbium	159-1				114		%
Terbium	159-2				112		%
Thallium	203-1	0.48	0.48	0.49	0.48	1.51	ppb
Thallium	205-1	0.47	0.48	0.49	0.48	2.01	ppb
Tin	118-1	0.97	0.99	1.06	1.00	4.79	ppb
Titanium	47-1	61.00	62.23	63.38	62.21	1.91	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:27:58 DataFile Name : 059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.23	1.26	1.24	1.24	1.13	ppb
Vanadium	51-2	20.49	20.55	20.51	20.52	0.15	ppb
Yttrium	89-1				117		%
Yttrium	89-2				115		%
Zinc	66-2	6242.07	6284.51	6274.86	6267.15	0.36	ppb
Zirconium	90-1	0.88	0.88	0.88	0.88	0.25	ppb
Zirconium	91-1	0.88	0.86	0.90	0.88	2.56	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:31:03 DataFile Name : 060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20186.97	20069.02	19899.68	20051.89	0.72	ppb
Antimony	121-1	18.46	18.52	18.68	18.55	0.61	ppb
Arsenic	75-2	56.17	55.43	55.49	55.70	0.74	ppb
Barium	135-1	179.46	179.58	180.27	179.77	0.24	ppb
Barium	137-1	178.43	179.58	180.42	179.48	0.56	ppb
Beryllium	9-1	9.12	8.80	8.53	8.82	3.36	ppb
Bismuth	209-1				122		%
Bismuth	209-2				117		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	77.74	77.29	77.70	77.58	0.32	ppb
Cadmium	106-1	73.88	74.51	76.91	75.10	2.13	ppb
Cadmium	111-1	77.65	77.95	76.92	77.51	0.68	ppb
Calcium	43-1	16749.56	16798.59	16579.66	16709.27	0.69	ppb
Calcium	44-1	16245.19	16688.31	16467.15	16466.89	1.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.18	31.53	31.61	31.77	1.11	ppb
Cobalt	59-2	46.55	46.03	45.91	46.17	0.73	ppb
Copper	63-2	1835.89	1858.66	1843.66	1846.07	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				112		%
Indium	115-1				114		%
Indium	115-2				112		%
Iron	56-2	96062.67	95189.46	95569.89	95607.34	0.46	ppb
Iron	57-2	94052.91	94413.41	94363.09	94276.47	0.21	ppb
Iron	54-2	95944.98	95281.65	95424.60	95550.41	0.37	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:31:03 DataFile Name : 060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	9232.66	9303.11	9438.08	9324.62	1.12	ppb
Lead	207-1	8956.48	9052.34	9137.00	9048.61	1.00	ppb
Lead	208-1	9062.10	9179.94	9208.77	9150.27	0.85	ppb
Lithium	6-1				97		%
Magnesium	24-2	13870.56	13832.10	13738.81	13813.82	0.49	ppb
Manganese	55-2	19939.92	19892.60	19887.94	19906.82	0.14	ppb
Molybdenum	94-1	18.89	18.75	18.88	18.84	0.42	ppb
Molybdenum	95-1	19.90	19.84	20.26	20.00	1.15	ppb
Molybdenum	96-1	20.28	19.95	20.36	20.20	1.06	ppb
Molybdenum	97-1	19.29	19.57	19.52	19.46	0.77	ppb
Molybdenum	98-1	19.31	18.95	19.37	19.21	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	32.85	32.73	32.97	32.85	0.37	ppb
Phosphorus	31-2	2434.61	2393.68	2450.82	2426.37	1.21	ppb
Potassium	39-2	1995.43	2035.92	2017.12	2016.16	1.00	ppb
Rhodium	103-1				111		%
Rhodium	103-2				112		%
Scandium	45-1				110		%
Scandium	45-2				112		%
Selenium	82-1	2.06	1.82	2.33	2.07	12.38	ppb
Selenium	77-2	14.21	16.14	13.40	14.58	9.66	ppb
Selenium	78-2	5.02	4.55	4.63	4.73	5.40	ppb
Silicon	28-1	442.77	445.53	438.78	442.36	0.77	ppb
Silver	107-1	27.74	27.79	27.92	27.82	0.32	ppb
Silver	109-1	27.47	27.61	27.83	27.63	0.66	ppb
Sodium	23-2	187.18	185.60	185.49	186.09	0.51	ppb
Strontium	86-1	2958.47	2945.90	3006.74	2970.37	1.08	ppb
Strontium	88-1	3086.10	3094.05	3136.35	3105.50	0.87	ppb
Sulfur	34-1	19414.43	19481.62	19399.49	19431.84	0.23	ppb
Terbium	159-1				115		%
Terbium	159-2				111		%
Thallium	203-1	0.45	0.48	0.47	0.47	2.64	ppb
Thallium	205-1	0.44	0.44	0.44	0.44	0.92	ppb
Tin	118-1	1.96	1.95	2.02	1.98	1.77	ppb
Titanium	47-1	117.01	118.48	116.60	117.36	0.84	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:31:03 DataFile Name : 060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.35	2.35	2.38	2.36	0.71	ppb
Vanadium	51-2	40.77	40.10	40.56	40.48	0.85	ppb
Yttrium	89-1				122		%
Yttrium	89-2				119		%
Zinc	66-2	21485.32	21512.65	21418.76	21472.24	0.22	ppb
Zirconium	90-1	1.57	1.55	1.56	1.56	0.57	ppb
Zirconium	91-1	1.59	1.54	1.63	1.59	2.63	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-16 Instrumnet Name : P7
Client Sample ID : MH2D71 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:34:05 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5524.84	5358.19	5490.77	5457.93	1.61	ppb
Antimony	121-1	16.85	16.78	16.79	16.81	0.22	ppb
Arsenic	75-2	167.71	166.78	167.30	167.26	0.28	ppb
Barium	135-1	94.61	93.37	95.04	94.34	0.92	ppb
Barium	137-1	94.07	94.00	95.27	94.45	0.75	ppb
Beryllium	9-1	0.82	0.91	0.84	0.86	5.80	ppb
Bismuth	209-1				120		%
Bismuth	209-2				116		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	25.73	24.78	25.42	25.31	1.91	ppb
Cadmium	106-1	21.73	18.05	19.78	19.85	9.27	ppb
Cadmium	111-1	25.35	25.46	25.62	25.48	0.54	ppb
Calcium	43-1	19870.81	20184.57	20405.84	20153.74	1.33	ppb
Calcium	44-1	19603.81	19431.99	19838.07	19624.62	1.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11.11	10.96	11.13	11.07	0.85	ppb
Cobalt	59-2	14.89	15.13	15.11	15.04	0.89	ppb
Copper	63-2	988.18	980.73	977.47	982.13	0.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				110		%
Indium	115-1				113		%
Indium	115-2				111		%
Iron	56-2	104343.50	104695.63	105110.12	104716.41	0.37	ppb
Iron	57-2	103202.24	102964.30	102841.91	103002.82	0.18	ppb
Iron	54-2	104539.43	103858.91	104799.81	104399.38	0.47	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-16 Instrumnet Name : P7
Client Sample ID : MH2D71 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:34:05 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5108.65	5037.43	5053.92	5066.66	0.74	ppb
Lead	207-1	4886.53	4902.16	4970.84	4919.85	0.91	ppb
Lead	208-1	4951.36	4932.51	4996.68	4960.18	0.66	ppb
Lithium	6-1				97		%
Magnesium	24-2	3083.41	3084.31	3067.31	3078.35	0.31	ppb
Manganese	55-2	5948.84	5944.53	5950.62	5948.00	0.05	ppb
Molybdenum	94-1	48.36	49.12	48.57	48.68	0.81	ppb
Molybdenum	95-1	58.31	58.64	58.25	58.40	0.36	ppb
Molybdenum	96-1	58.49	58.68	58.67	58.62	0.18	ppb
Molybdenum	97-1	58.69	59.25	58.71	58.88	0.54	ppb
Molybdenum	98-1	58.41	58.52	58.04	58.32	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	12.17	11.91	12.08	12.05	1.10	ppb
Phosphorus	31-2	1435.74	1449.49	1430.76	1438.66	0.67	ppb
Potassium	39-2	1536.45	1530.83	1533.03	1533.44	0.18	ppb
Rhodium	103-1				110		%
Rhodium	103-2				110		%
Scandium	45-1				108		%
Scandium	45-2				109		%
Selenium	82-1	3.89	3.71	3.78	3.79	2.36	ppb
Selenium	77-2	9.33	9.03	7.73	8.70	9.78	ppb
Selenium	78-2	5.00	4.96	4.59	4.85	4.65	ppb
Silicon	28-1	150.78	153.65	155.28	153.24	1.49	ppb
Silver	107-1	45.54	44.68	45.25	45.16	0.96	ppb
Silver	109-1	44.93	44.50	45.31	44.91	0.90	ppb
Sodium	23-2	81.48	81.56	82.17	81.73	0.46	ppb
Strontium	86-1	706.27	716.22	720.61	714.36	1.03	ppb
Strontium	88-1	716.93	728.79	719.36	721.70	0.87	ppb
Sulfur	34-1	76423.33	78718.69	78234.82	77792.28	1.56	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.45	0.42	0.44	0.44	2.54	ppb
Thallium	205-1	0.41	0.43	0.42	0.42	2.54	ppb
Tin	118-1	1.72	1.73	1.75	1.73	0.76	ppb
Titanium	47-1	45.80	46.83	47.54	46.72	1.87	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-16 Instrumnet Name : P7
Client Sample ID : MH2D71 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:34:05 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.07	1.06	1.05	1.06	0.98	ppb
Vanadium	51-2	14.22	14.16	14.35	14.25	0.68	ppb
Yttrium	89-1				114		%
Yttrium	89-2				112		%
Zinc	66-2	6641.35	6588.90	6577.29	6602.52	0.52	ppb
Zirconium	90-1	0.49	0.50	0.50	0.49	1.54	ppb
Zirconium	91-1	0.55	0.52	0.52	0.53	3.18	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17 Instrumnet Name : P7
Client Sample ID : MH2D74 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:37:10 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3730.33	3727.40	3686.34	3714.69	0.66	ppb
Antimony	121-1	16.65	15.85	16.04	16.18	2.60	ppb
Arsenic	75-2	150.87	150.72	151.00	150.86	0.09	ppb
Barium	135-1	92.25	87.37	89.78	89.80	2.71	ppb
Barium	137-1	91.94	86.86	88.19	89.00	2.96	ppb
Beryllium	9-1	1.56	1.59	1.68	1.61	3.95	ppb
Bismuth	209-1				117		%
Bismuth	209-2				116		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	19.04	17.12	18.98	18.38	5.95	ppb
Cadmium	106-1	10.94	8.98	12.43	10.78	16.03	ppb
Cadmium	111-1	18.58	17.39	17.64	17.87	3.52	ppb
Calcium	43-1	21288.10	20490.01	20438.04	20738.71	2.30	ppb
Calcium	44-1	21167.36	19773.25	19895.77	20278.80	3.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.63	8.64	8.66	8.64	0.17	ppb
Cobalt	59-2	9.55	9.70	9.56	9.60	0.89	ppb
Copper	63-2	775.09	768.54	769.12	770.91	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				110		%
Indium	115-1				111		%
Indium	115-2				111		%
Iron	56-2	84631.47	84579.49	83948.20	84386.39	0.45	ppb
Iron	57-2	83000.23	83471.04	82549.53	83006.93	0.56	ppb
Iron	54-2	84511.53	83876.87	83860.71	84083.04	0.44	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17 Instrumnet Name : P7
Client Sample ID : MH2D74 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:37:10 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5199.06	4904.84	4888.96	4997.62	3.49	ppb
Lead	207-1	4987.30	4709.78	4674.28	4790.45	3.58	ppb
Lead	208-1	5030.19	4756.18	4779.26	4855.21	3.13	ppb
Lithium	6-1				94		%
Magnesium	24-2	2170.44	2179.55	2164.86	2171.62	0.34	ppb
Manganese	55-2	5444.75	5457.36	5434.66	5445.59	0.21	ppb
Molybdenum	94-1	51.51	48.69	48.16	49.45	3.65	ppb
Molybdenum	95-1	62.19	58.04	57.40	59.21	4.39	ppb
Molybdenum	96-1	60.75	57.78	57.05	58.53	3.35	ppb
Molybdenum	97-1	62.19	58.86	58.08	59.71	3.66	ppb
Molybdenum	98-1	61.81	57.65	57.50	58.99	4.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.16	8.25	8.20	8.21	0.52	ppb
Phosphorus	31-2	1309.73	1342.72	1323.07	1325.17	1.25	ppb
Potassium	39-2	1597.91	1604.20	1589.32	1597.14	0.47	ppb
Rhodium	103-1				108		%
Rhodium	103-2				111		%
Scandium	45-1				106		%
Scandium	45-2				109		%
Selenium	82-1	3.14	2.56	3.08	2.93	10.83	ppb
Selenium	77-2	10.20	7.99	5.31	7.83	31.26	ppb
Selenium	78-2	4.61	4.79	5.01	4.80	4.21	ppb
Silicon	28-1	127.43	122.06	121.49	123.66	2.65	ppb
Silver	107-1	44.31	41.62	42.71	42.88	3.16	ppb
Silver	109-1	44.02	41.71	42.04	42.59	2.93	ppb
Sodium	23-2	82.34	82.76	80.99	82.03	1.12	ppb
Strontium	86-1	828.24	783.78	769.60	793.87	3.85	ppb
Strontium	88-1	824.48	778.45	770.00	790.98	3.71	ppb
Sulfur	34-1	60114.50	58100.06	58213.90	58809.49	1.92	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.43	0.40	0.39	0.41	5.19	ppb
Thallium	205-1	0.43	0.41	0.41	0.42	2.67	ppb
Tin	118-1	1.49	1.41	1.44	1.45	2.82	ppb
Titanium	47-1	40.18	38.38	38.03	38.86	2.96	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17 Instrumnet Name : P7
Client Sample ID : MH2D74 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:37:10 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.87	0.81	0.80	0.83	4.12	ppb
Vanadium	51-2	12.65	12.62	12.69	12.65	0.27	ppb
Yttrium	89-1				112		%
Yttrium	89-2				112		%
Zinc	66-2	4663.45	4592.16	4642.70	4632.77	0.79	ppb
Zirconium	90-1	0.47	0.45	0.44	0.45	3.56	ppb
Zirconium	91-1	0.48	0.48	0.46	0.47	1.78	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-18 Instrumnet Name : P7
Client Sample ID : MH2D74D Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:40:14 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3755.85	3702.09	3984.86	3814.27	3.94	ppb
Antimony	121-1	15.86	15.93	15.85	15.88	0.25	ppb
Arsenic	75-2	148.19	152.31	161.91	154.14	4.57	ppb
Barium	135-1	87.87	88.21	89.14	88.41	0.74	ppb
Barium	137-1	87.27	87.14	88.35	87.59	0.76	ppb
Beryllium	9-1	1.62	1.67	1.55	1.61	3.90	ppb
Bismuth	209-1				120		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	17.34	18.38	17.54	17.75	3.10	ppb
Cadmium	106-1	10.90	11.43	11.42	11.25	2.70	ppb
Cadmium	111-1	18.01	17.05	17.46	17.51	2.75	ppb
Calcium	43-1	20134.80	20257.47	20438.88	20277.05	0.75	ppb
Calcium	44-1	19650.43	19873.02	20072.51	19865.32	1.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.63	8.64	9.20	8.82	3.73	ppb
Cobalt	59-2	9.70	9.56	10.32	9.86	4.11	ppb
Copper	63-2	774.49	774.54	818.15	789.06	3.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				114		%
Indium	115-2				108		%
Iron	56-2	84886.34	84329.76	90276.23	86497.45	3.80	ppb
Iron	57-2	83621.79	82691.22	89761.21	85358.08	4.50	ppb
Iron	54-2	84283.60	84482.34	89723.82	86163.25	3.58	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-18 Instrumnet Name : P7
Client Sample ID : MH2D74D Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:40:14 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4804.43	4940.54	4828.10	4857.69	1.50	ppb
Lead	207-1	4661.86	4824.57	4687.78	4724.74	1.85	ppb
Lead	208-1	4701.08	4823.41	4727.16	4750.55	1.36	ppb
Lithium	6-1				95		%
Magnesium	24-2	2182.94	2170.83	2338.06	2230.61	4.18	ppb
Manganese	55-2	5513.56	5473.68	5854.78	5614.01	3.73	ppb
Molybdenum	94-1	48.84	49.58	48.50	48.97	1.13	ppb
Molybdenum	95-1	58.50	58.92	58.49	58.64	0.42	ppb
Molybdenum	96-1	58.18	58.05	58.25	58.16	0.18	ppb
Molybdenum	97-1	58.91	58.83	58.59	58.78	0.28	ppb
Molybdenum	98-1	57.98	58.51	58.34	58.28	0.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.38	8.21	8.87	8.49	4.01	ppb
Phosphorus	31-2	1304.34	1330.63	1423.45	1352.81	4.63	ppb
Potassium	39-2	1604.83	1586.76	1714.63	1635.41	4.23	ppb
Rhodium	103-1				110		%
Rhodium	103-2				109		%
Scandium	45-1				108		%
Scandium	45-2				106		%
Selenium	82-1	2.71	3.39	3.01	3.04	11.29	ppb
Selenium	77-2	7.43	9.15	7.67	8.08	11.50	ppb
Selenium	78-2	3.75	3.43	6.24	4.47	34.33	ppb
Silicon	28-1	117.71	115.88	119.37	117.65	1.48	ppb
Silver	107-1	42.10	42.06	42.46	42.21	0.52	ppb
Silver	109-1	41.39	41.79	42.01	41.73	0.75	ppb
Sodium	23-2	81.75	78.64	88.52	82.97	6.09	ppb
Strontium	86-1	783.45	779.41	779.69	780.85	0.29	ppb
Strontium	88-1	779.74	791.14	780.13	783.67	0.83	ppb
Sulfur	34-1	57792.03	57219.74	56848.33	57286.70	0.83	ppb
Terbium	159-1				114		%
Terbium	159-2				106		%
Thallium	203-1	0.41	0.42	0.39	0.41	3.59	ppb
Thallium	205-1	0.40	0.42	0.39	0.40	2.90	ppb
Tin	118-1	1.42	1.44	1.45	1.44	1.01	ppb
Titanium	47-1	37.50	37.77	38.08	37.78	0.76	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-18 Instrumnet Name : P7
Client Sample ID : MH2D74D Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:40:14 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.81	0.83	0.81	0.82	1.08	ppb
Vanadium	51-2	12.71	12.73	13.54	12.99	3.65	ppb
Yttrium	89-1				114		%
Yttrium	89-2				109		%
Zinc	66-2	4686.34	4619.63	4872.33	4726.10	2.77	ppb
Zirconium	90-1	0.42	0.43	0.40	0.42	2.76	ppb
Zirconium	91-1	0.43	0.48	0.47	0.46	4.83	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-19 Instrumnet Name : P7
Client Sample ID : MH2D74S Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:43:20 DataFile Name : 064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4071.31	4058.77	4077.21	4069.10	0.23	ppb
Antimony	121-1	37.46	38.15	37.79	37.80	0.91	ppb
Arsenic	75-2	159.15	155.41	156.82	157.13	1.20	ppb
Barium	135-1	532.33	534.84	531.85	533.01	0.30	ppb
Barium	137-1	533.89	532.48	542.84	536.41	1.05	ppb
Beryllium	9-1	12.76	12.49	12.58	12.61	1.09	ppb
Bismuth	209-1				120		%
Bismuth	209-2				115		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	26.55	27.06	27.40	27.00	1.59	ppb
Cadmium	106-1	19.11	20.43	22.77	20.77	8.93	ppb
Cadmium	111-1	28.19	28.76	28.61	28.52	1.04	ppb
Calcium	43-1	20068.32	19889.11	19933.63	19963.69	0.47	ppb
Calcium	44-1	19699.99	19395.92	19571.55	19555.82	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	53.00	52.77	53.24	53.00	0.44	ppb
Cobalt	59-2	121.97	121.09	122.01	121.69	0.43	ppb
Copper	63-2	816.53	813.30	822.82	817.55	0.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				113		%
Indium	115-2				109		%
Iron	56-2	83640.96	83470.68	83760.42	83624.02	0.17	ppb
Iron	57-2	81399.59	82302.19	82717.57	82139.78	0.82	ppb
Iron	54-2	84032.11	83469.22	84104.34	83868.56	0.41	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-19 Instrumnet Name : P7
Client Sample ID : MH2D74S Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:43:20 DataFile Name : 064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4802.60	4832.20	4766.07	4800.29	0.69	ppb
Lead	207-1	4620.14	4698.91	4576.91	4631.99	1.34	ppb
Lead	208-1	4691.74	4733.84	4640.46	4688.68	1.00	ppb
Lithium	6-1				95		%
Magnesium	24-2	2154.47	2153.53	2161.15	2156.38	0.19	ppb
Manganese	55-2	5538.08	5492.19	5520.55	5516.94	0.42	ppb
Molybdenum	94-1	47.64	47.93	48.55	48.04	0.97	ppb
Molybdenum	95-1	57.17	57.71	57.61	57.50	0.50	ppb
Molybdenum	96-1	57.52	57.23	57.56	57.44	0.31	ppb
Molybdenum	97-1	58.17	57.77	58.25	58.06	0.44	ppb
Molybdenum	98-1	56.99	57.22	57.82	57.34	0.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	124.28	124.34	124.48	124.37	0.08	ppb
Phosphorus	31-2	1306.96	1298.61	1338.14	1314.57	1.58	ppb
Potassium	39-2	1574.62	1581.69	1585.93	1580.75	0.36	ppb
Rhodium	103-1				110		%
Rhodium	103-2				111		%
Scandium	45-1				108		%
Scandium	45-2				107		%
Selenium	82-1	25.60	25.77	25.43	25.60	0.66	ppb
Selenium	77-2	31.43	23.89	25.69	27.01	14.58	ppb
Selenium	78-2	29.55	26.61	28.10	28.09	5.23	ppb
Silicon	28-1	117.68	115.22	119.29	117.40	1.74	ppb
Silver	107-1	52.89	52.55	53.08	52.84	0.50	ppb
Silver	109-1	51.98	52.64	52.97	52.53	0.96	ppb
Sodium	23-2	77.94	78.18	80.98	79.03	2.14	ppb
Strontium	86-1	761.03	765.17	769.66	765.28	0.56	ppb
Strontium	88-1	762.44	767.85	777.57	769.29	1.00	ppb
Sulfur	34-1	56066.16	55235.94	57027.72	56109.94	1.60	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	9.74	9.85	9.74	9.78	0.69	ppb
Thallium	205-1	9.58	9.71	9.64	9.65	0.67	ppb
Tin	118-1	1.40	1.49	1.45	1.45	2.98	ppb
Titanium	47-1	37.07	36.77	37.71	37.18	1.30	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-19 Instrumnet Name : P7
Client Sample ID : MH2D74S Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:43:20 DataFile Name : 064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.81	0.81	0.80	0.80	0.96	ppb
Vanadium	51-2	122.95	122.35	122.70	122.67	0.25	ppb
Yttrium	89-1				113		%
Yttrium	89-2				111		%
Zinc	66-2	4731.40	4658.53	4766.29	4718.74	1.17	ppb
Zirconium	90-1	0.46	0.42	0.42	0.43	5.17	ppb
Zirconium	91-1	0.44	0.46	0.46	0.45	2.93	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17LX5 Instrumnet Name : P7
Client Sample ID : MH2D74L Dilution Factor : 5
Date & Time Acquired : 2025-01-06 16:46:22 DataFile Name : 065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	763.73	765.20	752.53	760.49	0.91	ppb
Antimony	121-1	3.21	3.21	3.23	3.22	0.30	ppb
Arsenic	75-2	30.18	29.77	29.64	29.86	0.94	ppb
Barium	135-1	17.90	17.74	17.92	17.85	0.55	ppb
Barium	137-1	17.98	17.77	17.88	17.88	0.58	ppb
Beryllium	9-1	0.32	0.32	0.41	0.35	14.43	ppb
Bismuth	209-1				111		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.61	3.31	3.81	3.58	7.10	ppb
Cadmium	106-1	-4.41	-4.68	-1.92	-3.67		ppb
Cadmium	111-1	3.41	3.57	3.40	3.46	2.80	ppb
Calcium	43-1	4108.48	4191.45	4148.78	4149.57	1.00	ppb
Calcium	44-1	4013.03	4089.71	4095.57	4066.10	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.94	1.96	1.91	1.93	1.31	ppb
Cobalt	59-2	1.92	1.98	1.88	1.92	2.50	ppb
Copper	63-2	152.79	152.17	150.35	151.77	0.83	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				110		%
Indium	115-2				107		%
Iron	56-2	17013.35	17046.35	16676.01	16911.91	1.21	ppb
Iron	57-2	16678.87	17040.49	16677.13	16798.83	1.25	ppb
Iron	54-2	17061.53	17100.90	16865.89	17009.44	0.74	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17LX5 Instrumnet Name : P7
Client Sample ID : MH2D74L Dilution Factor : 5
Date & Time Acquired : 2025-01-06 16:46:22 DataFile Name : 065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1039.96	1022.87	1024.82	1029.22	0.91	ppb
Lead	207-1	1007.81	986.70	995.24	996.58	1.07	ppb
Lead	208-1	1013.43	1004.15	1007.34	1008.31	0.47	ppb
Lithium	6-1				93		%
Magnesium	24-2	444.07	442.81	437.67	441.51	0.77	ppb
Manganese	55-2	1101.85	1114.35	1101.02	1105.74	0.68	ppb
Molybdenum	94-1	9.73	9.73	9.86	9.78	0.74	ppb
Molybdenum	95-1	11.81	11.73	11.61	11.72	0.87	ppb
Molybdenum	96-1	11.71	11.76	11.66	11.71	0.40	ppb
Molybdenum	97-1	11.73	11.85	11.72	11.77	0.59	ppb
Molybdenum	98-1	11.79	11.66	11.90	11.78	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.79	2.04	1.83	1.89	6.97	ppb
Phosphorus	31-2	238.13	233.31	256.64	242.69	5.07	ppb
Potassium	39-2	329.61	332.30	328.85	330.25	0.55	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	0.19	0.21	0.13	0.18	24.86	ppb
Selenium	77-2	1.56	1.90	0.31	1.26	66.40	ppb
Selenium	78-2	1.03	1.33	0.31	0.89	58.75	ppb
Silicon	28-1	22.26	23.40	22.62	22.76	2.57	ppb
Silver	107-1	8.56	8.59	8.59	8.58	0.23	ppb
Silver	109-1	8.51	8.45	8.56	8.51	0.61	ppb
Sodium	23-2	42.36	42.19	40.51	41.69	2.45	ppb
Strontium	86-1	156.06	158.80	158.96	157.94	1.03	ppb
Strontium	88-1	158.29	158.46	157.85	158.20	0.20	ppb
Sulfur	34-1	10464.22	10724.78	10554.37	10581.13	1.25	ppb
Terbium	159-1				110		%
Terbium	159-2				108		%
Thallium	203-1	0.10	0.08	0.09	0.09	10.06	ppb
Thallium	205-1	0.09	0.10	0.09	0.09	5.62	ppb
Tin	118-1	0.42	0.43	0.43	0.42	0.79	ppb
Titanium	47-1	7.73	7.80	7.65	7.73	1.03	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17LX5 Instrumnet Name : P7
Client Sample ID : MH2D74L Dilution Factor : 5
Date & Time Acquired : 2025-01-06 16:46:22 DataFile Name : 065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.17	0.17	0.17	0.17	2.10	ppb
Vanadium	51-2	2.61	2.59	2.57	2.59	0.81	ppb
Yttrium	89-1				110		%
Yttrium	89-2				108		%
Zinc	66-2	913.51	903.33	897.72	904.85	0.88	ppb
Zirconium	90-1	0.08	0.09	0.09	0.09	4.75	ppb
Zirconium	91-1	0.12	0.10	0.11	0.11	9.14	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:49:31 DataFile Name : 066CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50152.68	49499.29	49933.76	49861.91	0.67	ppb
Antimony	121-1	511.39	502.42	506.05	506.62	0.89	ppb
Arsenic	75-2	479.95	482.86	485.29	482.70	0.55	ppb
Barium	135-1	2509.84	2443.43	2455.67	2469.65	1.43	ppb
Barium	137-1	2491.26	2423.20	2471.30	2461.92	1.42	ppb
Beryllium	9-1	495.99	472.83	481.81	483.54	2.41	ppb
Bismuth	209-1				104		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	513.00	496.56	501.28	503.61	1.68	ppb
Cadmium	106-1	503.37	489.50	494.37	495.75	1.42	ppb
Cadmium	111-1	493.85	483.86	484.26	487.32	1.16	ppb
Calcium	43-1	258550.98	252973.43	257909.20	256477.87	1.19	ppb
Calcium	44-1	256480.99	256269.23	256273.37	256341.20	0.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	508.56	498.24	507.24	504.68	1.11	ppb
Cobalt	59-2	504.78	500.46	500.76	502.00	0.48	ppb
Copper	63-2	5016.26	4971.60	4968.24	4985.37	0.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				101		%
Indium	115-1				95		%
Indium	115-2				87		%
Iron	56-2	133450.75	132898.36	132539.75	132962.95	0.35	ppb
Iron	57-2	132363.69	131320.43	132912.51	132198.88	0.61	ppb
Iron	54-2	133173.36	131300.32	132675.95	132383.21	0.73	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:49:31 DataFile Name : 066CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2556.22	2521.70	2514.83	2530.92	0.88	ppb
Lead	207-1	2528.40	2504.94	2482.69	2505.34	0.91	ppb
Lead	208-1	2534.61	2501.99	2494.33	2510.31	0.85	ppb
Lithium	6-1				102		%
Magnesium	24-2	254010.59	252327.35	253084.89	253140.94	0.33	ppb
Manganese	55-2	5021.90	4983.93	5004.49	5003.44	0.38	ppb
Molybdenum	94-1	5060.13	4939.50	4958.80	4986.14	1.30	ppb
Molybdenum	95-1	5059.24	4980.88	5019.67	5019.93	0.78	ppb
Molybdenum	96-1	5005.04	4986.36	4931.39	4974.26	0.77	ppb
Molybdenum	97-1	5006.18	4990.82	4924.70	4973.90	0.87	ppb
Molybdenum	98-1	4992.13	4973.69	4929.58	4965.14	0.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	512.54	508.93	507.17	509.55	0.54	ppb
Phosphorus	31-2	9967.41	9816.66	9874.04	9886.04	0.77	ppb
Potassium	39-2	124119.58	123964.39	123502.45	123862.14	0.26	ppb
Rhodium	103-1				89		%
Rhodium	103-2				85		%
Scandium	45-1				92		%
Scandium	45-2				82		%
Selenium	82-1	501.61	486.16	493.46	493.74	1.57	ppb
Selenium	77-2	492.32	481.35	515.71	496.46	3.54	ppb
Selenium	78-2	487.10	496.39	485.58	489.69	1.20	ppb
Silicon	28-1	548.36	540.70	548.46	545.84	0.82	ppb
Silver	107-1	505.95	491.91	494.12	497.33	1.52	ppb
Silver	109-1	505.46	488.76	490.67	494.96	1.85	ppb
Sodium	23-2	255177.25	251538.76	251432.51	252716.17	0.84	ppb
Strontium	86-1	12831.73	12424.33	12203.39	12486.48	2.55	ppb
Strontium	88-1	12674.63	12408.50	12368.54	12483.89	1.33	ppb
Sulfur	34-1	9926.74	9566.25	9760.91	9751.30	1.85	ppb
Terbium	159-1				106		%
Terbium	159-2				100		%
Thallium	203-1	514.39	511.23	493.59	506.40	2.21	ppb
Thallium	205-1	505.12	503.08	498.27	502.16	0.70	ppb
Tin	118-1	491.41	488.03	487.62	489.02	0.43	ppb
Titanium	47-1	4948.59	4931.36	4936.82	4938.93	0.18	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:49:31 DataFile Name : 066CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	497.18	494.00	494.70	495.29	0.34	ppb
Vanadium	51-2	513.93	512.02	508.50	511.48	0.54	ppb
Yttrium	89-1				97		%
Yttrium	89-2				88		%
Zinc	66-2	5126.43	5119.53	5073.71	5106.56	0.56	ppb
Zirconium	90-1	504.03	493.38	499.55	498.99	1.07	ppb
Zirconium	91-1	507.73	499.66	497.41	501.60	1.08	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:52:12 DataFile Name : 067CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.49	2.09	2.82	2.47	14.81	ppb
Antimony	121-1	0.18	0.16	0.15	0.16	11.38	ppb
Arsenic	75-2	0.03	0.01	0.02	0.02	46.05	ppb
Barium	135-1	0.20	0.14	0.16	0.16	18.84	ppb
Barium	137-1	0.20	0.16	0.15	0.17	15.02	ppb
Beryllium	9-1	0.08	0.09	0.07	0.08	17.37	ppb
Bismuth	209-1				116		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.07	0.09	0.15	0.10	41.33	ppb
Cadmium	106-1	-14.23	-14.05	-15.53	-14.60		ppb
Cadmium	111-1	-0.12	-0.11	-0.13	-0.12		ppb
Calcium	43-1	13.30	12.37	10.82	12.16	10.30	ppb
Calcium	44-1	16.02	11.27	10.12	12.47	25.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.06	0.07	0.05	39.58	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	13.67	ppb
Copper	63-2	0.78	0.76	0.77	0.77	0.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	56-2	9.83	9.72	9.69	9.75	0.75	ppb
Iron	57-2	8.54	5.31	7.73	7.19	23.31	ppb
Iron	54-2	8.83	8.49	9.73	9.01	7.12	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:52:12 DataFile Name : 067CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.73	0.70	0.72	0.72	1.93	ppb
Lead	207-1	0.69	0.68	0.66	0.68	2.60	ppb
Lead	208-1	0.71	0.69	0.68	0.70	1.90	ppb
Lithium	6-1				111		%
Magnesium	24-2	13.94	13.92	13.86	13.91	0.32	ppb
Manganese	55-2	0.46	0.50	0.47	0.48	4.08	ppb
Molybdenum	94-1	0.48	0.40	0.36	0.41	14.83	ppb
Molybdenum	95-1	0.42	0.33	0.32	0.36	15.81	ppb
Molybdenum	96-1	0.46	0.36	0.36	0.39	15.37	ppb
Molybdenum	97-1	0.44	0.35	0.29	0.36	21.93	ppb
Molybdenum	98-1	0.45	0.36	0.33	0.38	16.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.09	-0.03	-0.01	-0.04		ppb
Phosphorus	31-2	-25.43	-23.65	-25.94	-25.01		ppb
Potassium	39-2	11.60	11.53	10.27	11.14	6.71	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				92		%
Scandium	45-2				84		%
Selenium	82-1	0.04	-0.61	-0.30	-0.29		ppb
Selenium	77-2	0.00	0.00	0.19	0.06	173.21	ppb
Selenium	78-2	-0.70	-1.00	-0.13	-0.61		ppb
Silicon	28-1	-12.63	-12.69	-12.60	-12.64		ppb
Silver	107-1	0.08	0.08	0.07	0.08	8.42	ppb
Silver	109-1	0.09	0.08	0.07	0.08	14.57	ppb
Sodium	23-2	46.57	44.90	42.57	44.68	4.49	ppb
Strontium	86-1	0.82	0.51	0.50	0.61	29.97	ppb
Strontium	88-1	0.92	0.74	0.67	0.77	16.70	ppb
Sulfur	34-1	-542.98	-550.85	-537.25	-543.70		ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.10	0.09	0.10	0.10	6.49	ppb
Thallium	205-1	0.11	0.09	0.09	0.10	7.48	ppb
Tin	118-1	0.04	0.03	0.04	0.04	9.12	ppb
Titanium	47-1	0.33	0.29	0.24	0.29	14.72	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:52:12 DataFile Name : 067CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.02	0.03	14.63	ppb
Vanadium	51-2	0.03	0.03	0.03	0.03	7.45	ppb
Yttrium	89-1				99		%
Yttrium	89-2				92		%
Zinc	66-2	0.62	0.67	0.61	0.63	5.07	ppb
Zirconium	90-1	0.05	0.04	0.04	0.04	18.01	ppb
Zirconium	91-1	0.06	0.05	0.06	0.06	10.76	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:48:47 DataFile Name : 069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5679.31	5777.33	5708.05	5721.56	0.88	ppb
Antimony	121-1	2.77	2.79	2.82	2.79	0.99	ppb
Arsenic	75-2	20.64	20.82	20.07	20.51	1.92	ppb
Barium	135-1	32.13	31.77	32.85	32.25	1.72	ppb
Barium	137-1	32.03	32.21	32.69	32.31	1.06	ppb
Beryllium	9-1	0.69	0.67	0.71	0.69	2.66	ppb
Bismuth	209-1				113		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.52	11.53	11.72	11.59	1.00	ppb
Cadmium	106-1	1.76	1.00	2.04	1.60	33.81	ppb
Cadmium	111-1	11.00	10.96	11.20	11.05	1.15	ppb
Calcium	43-1	1950.04	1931.33	1929.30	1936.89	0.59	ppb
Calcium	44-1	1933.54	1928.31	1932.93	1931.60	0.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.03	4.08	4.08	4.06	0.64	ppb
Cobalt	59-2	11.31	11.29	11.35	11.32	0.29	ppb
Copper	63-2	761.01	756.74	759.76	759.17	0.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				109		%
Indium	115-1				107		%
Indium	115-2				105		%
Iron	56-2	23359.24	23469.39	23262.77	23363.80	0.44	ppb
Iron	57-2	22941.27	22981.34	22831.71	22918.10	0.34	ppb
Iron	54-2	23544.12	23509.16	23279.11	23444.13	0.61	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:48:47 DataFile Name : 069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	3066.10	3087.58	3072.39	3075.35	0.36	ppb
Lead	207-1	2917.29	2894.80	2927.09	2913.06	0.57	ppb
Lead	208-1	2948.18	2959.43	2954.73	2954.11	0.19	ppb
Lithium	6-1				101		%
Magnesium	24-2	3151.42	3165.75	3160.90	3159.35	0.23	ppb
Manganese	55-2	15627.71	15586.23	15584.59	15599.51	0.16	ppb
Molybdenum	94-1	87.34	86.81	86.74	86.96	0.38	ppb
Molybdenum	95-1	106.10	105.53	106.84	106.16	0.62	ppb
Molybdenum	96-1	103.56	103.91	104.34	103.94	0.38	ppb
Molybdenum	97-1	106.27	105.99	105.97	106.07	0.16	ppb
Molybdenum	98-1	105.80	104.33	105.79	105.31	0.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.11	4.21	4.19	4.17	1.24	ppb
Phosphorus	31-2	800.69	803.50	792.67	798.96	0.70	ppb
Potassium	39-2	567.88	567.72	565.84	567.15	0.20	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				106		%
Scandium	45-2				102		%
Selenium	82-1	0.36	0.73	0.43	0.51	38.87	ppb
Selenium	77-2	3.68	3.48	4.40	3.85	12.58	ppb
Selenium	78-2	1.80	2.12	2.12	2.02	9.05	ppb
Silicon	28-1	133.36	135.59	131.08	133.34	1.69	ppb
Silver	107-1	18.81	18.99	19.36	19.05	1.47	ppb
Silver	109-1	18.84	18.82	19.32	18.99	1.49	ppb
Sodium	23-2	32.58	33.15	32.75	32.83	0.90	ppb
Strontium	86-1	322.74	321.84	320.65	321.75	0.33	ppb
Strontium	88-1	325.32	323.19	324.73	324.41	0.34	ppb
Sulfur	34-1	349.98	182.27	50.39	194.21	77.31	ppb
Terbium	159-1				109		%
Terbium	159-2				108		%
Thallium	203-1	0.33	0.34	0.32	0.33	2.44	ppb
Thallium	205-1	0.34	0.34	0.33	0.34	2.49	ppb
Tin	118-1	0.34	0.35	0.33	0.34	4.08	ppb
Titanium	47-1	7.81	7.96	7.88	7.88	0.97	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:48:47 DataFile Name : 069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.72	0.74	0.75	0.74	1.78	ppb
Vanadium	51-2	13.26	13.03	13.11	13.13	0.89	ppb
Yttrium	89-1				109		%
Yttrium	89-2				106		%
Zinc	66-2	4149.28	4087.18	4100.85	4112.44	0.79	ppb
Zirconium	90-1	0.12	0.12	0.11	0.12	3.34	ppb
Zirconium	91-1	0.13	0.12	0.14	0.13	5.20	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:51:50 DataFile Name : 070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1896.10	1883.51	1918.18	1899.26	0.92	ppb
Antimony	121-1	40.49	41.24	41.13	40.95	0.98	ppb
Arsenic	75-2	145.97	148.66	147.88	147.50	0.94	ppb
Barium	135-1	20.26	20.40	20.29	20.32	0.36	ppb
Barium	137-1	20.15	20.49	20.08	20.24	1.09	ppb
Beryllium	9-1	0.51	0.50	0.47	0.49	4.23	ppb
Bismuth	209-1				126		%
Bismuth	209-2				123		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	28.75	31.15	30.46	30.12	4.10	ppb
Cadmium	106-1	19.94	21.97	20.95	20.96	4.84	ppb
Cadmium	111-1	29.75	29.71	29.81	29.76	0.17	ppb
Calcium	43-1	7858.08	7840.49	8027.58	7908.72	1.31	ppb
Calcium	44-1	7605.22	7595.63	7770.87	7657.24	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.55	2.59	2.68	2.61	2.60	ppb
Cobalt	59-2	3.81	3.80	3.80	3.80	0.23	ppb
Copper	63-2	825.47	811.14	817.15	817.92	0.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				109		%
Indium	115-1				110		%
Indium	115-2				109		%
Iron	56-2	66359.67	65436.75	66848.92	66215.11	1.08	ppb
Iron	57-2	65008.66	64929.07	65758.42	65232.05	0.70	ppb
Iron	54-2	66357.42	66082.26	66823.65	66421.11	0.56	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:51:50 DataFile Name : 070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	16048.56	16286.89	16666.95	16334.13	1.91	ppb
Lead	207-1	15510.52	16189.97	16074.49	15924.99	2.28	ppb
Lead	208-1	15759.59	16154.87	16195.93	16036.80	1.50	ppb
Lithium	6-1				97		%
Magnesium	24-2	665.95	665.96	675.70	669.20	0.84	ppb
Manganese	55-2	19611.77	19536.64	19763.18	19637.20	0.59	ppb
Molybdenum	94-1	26.03	27.02	27.40	26.82	2.64	ppb
Molybdenum	95-1	31.42	32.44	32.43	32.10	1.84	ppb
Molybdenum	96-1	31.27	31.61	32.08	31.65	1.28	ppb
Molybdenum	97-1	31.14	31.98	32.37	31.83	1.97	ppb
Molybdenum	98-1	30.68	31.64	32.14	31.49	2.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.58	2.53	2.55	2.55	0.96	ppb
Phosphorus	31-2	548.26	564.83	559.86	557.65	1.52	ppb
Potassium	39-2	663.52	660.71	672.92	665.72	0.96	ppb
Rhodium	103-1				107		%
Rhodium	103-2				109		%
Scandium	45-1				106		%
Scandium	45-2				106		%
Selenium	82-1	5.04	5.46	5.09	5.20	4.41	ppb
Selenium	77-2	5.08	6.72	7.47	6.43	19.04	ppb
Selenium	78-2	5.73	4.95	7.21	5.96	19.26	ppb
Silicon	28-1	157.65	160.61	161.17	159.81	1.18	ppb
Silver	107-1	69.49	70.86	70.49	70.28	1.00	ppb
Silver	109-1	69.01	70.11	69.95	69.69	0.85	ppb
Sodium	23-2	81.67	79.87	82.09	81.21	1.45	ppb
Strontium	86-1	495.66	514.95	513.40	508.00	2.11	ppb
Strontium	88-1	499.34	514.67	515.73	509.92	1.80	ppb
Sulfur	34-1	35348.86	36392.64	36556.27	36099.26	1.81	ppb
Terbium	159-1				111		%
Terbium	159-2				108		%
Thallium	203-1	0.55	0.55	0.54	0.55	0.95	ppb
Thallium	205-1	0.53	0.54	0.54	0.53	1.35	ppb
Tin	118-1	2.68	2.72	2.72	2.70	0.80	ppb
Titanium	47-1	32.44	32.62	33.12	32.73	1.08	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:51:50 DataFile Name : 070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.49	0.50	0.51	0.50	1.99	ppb
Vanadium	51-2	7.25	7.39	7.50	7.38	1.69	ppb
Yttrium	89-1				108		%
Yttrium	89-2				109		%
Zinc	66-2	7816.06	7709.41	7889.69	7805.05	1.16	ppb
Zirconium	90-1	0.40	0.41	0.43	0.41	3.56	ppb
Zirconium	91-1	0.43	0.46	0.43	0.44	4.28	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DLX2 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:54:58 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5055.46	5062.07	5077.78	5065.10	0.23	ppb
Antimony	121-1	25.32	25.86	25.31	25.50	1.23	ppb
Arsenic	75-2	45.87	44.53	46.33	45.58	2.06	ppb
Barium	135-1	99.07	101.43	99.65	100.05	1.23	ppb
Barium	137-1	99.35	100.95	99.92	100.07	0.81	ppb
Beryllium	9-1	0.61	0.55	0.52	0.56	7.30	ppb
Bismuth	209-1				164		%
Bismuth	209-2				158		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.38	23.90	24.63	23.97	2.63	ppb
Cadmium	106-1	17.33	19.98	16.62	17.98	9.84	ppb
Cadmium	111-1	25.21	25.23	25.39	25.28	0.38	ppb
Calcium	43-1	2046.52	2100.09	2120.46	2089.02	1.83	ppb
Calcium	44-1	2074.02	2078.15	2085.08	2079.09	0.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.20	3.29	3.28	3.26	1.50	ppb
Cobalt	59-2	12.47	12.53	12.65	12.55	0.74	ppb
Copper	63-2	4681.75	4605.78	4677.22	4654.92	0.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				110		%
Indium	115-2				107		%
Iron	56-2	38309.56	38241.06	38641.48	38397.37	0.56	ppb
Iron	57-2	37217.21	37468.35	37865.08	37516.88	0.87	ppb
Iron	54-2	37877.95	38154.60	38346.91	38126.49	0.62	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DLX2 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:54:58 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8533.58	8448.02	8594.89	8525.50	0.87	ppb
Lead	207-1	8088.21	7949.09	8030.44	8022.58	0.87	ppb
Lead	208-1	8223.93	8113.00	8132.48	8156.47	0.73	ppb
Lithium	6-1				96		%
Magnesium	24-2	2803.39	2659.37	2829.96	2764.24	3.32	ppb
Manganese	55-2	11447.58	11509.61	11600.78	11519.32	0.67	ppb
Molybdenum	94-1	39.68	40.44	40.02	40.05	0.95	ppb
Molybdenum	95-1	47.87	48.30	48.03	48.07	0.45	ppb
Molybdenum	96-1	47.24	47.23	47.81	47.43	0.69	ppb
Molybdenum	97-1	47.37	48.52	47.97	47.95	1.19	ppb
Molybdenum	98-1	47.17	48.41	47.62	47.73	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.43	4.32	4.27	4.34	1.87	ppb
Phosphorus	31-2	718.32	752.73	735.00	735.35	2.34	ppb
Potassium	39-2	588.89	591.25	590.97	590.37	0.22	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	4.34	5.30	4.45	4.70	11.21	ppb
Selenium	77-2	8.58	7.43	7.45	7.82	8.41	ppb
Selenium	78-2	6.62	5.72	7.67	6.67	14.64	ppb
Silicon	28-1	141.92	139.96	142.12	141.33	0.84	ppb
Silver	107-1	87.94	89.26	88.68	88.63	0.75	ppb
Silver	109-1	87.31	89.27	87.61	88.06	1.20	ppb
Sodium	23-2	44.51	44.76	46.27	45.18	2.10	ppb
Strontium	86-1	467.96	469.30	469.37	468.88	0.17	ppb
Strontium	88-1	471.06	481.69	478.64	477.13	1.15	ppb
Sulfur	34-1	7554.47	7638.72	7572.80	7588.67	0.58	ppb
Terbium	159-1				110		%
Terbium	159-2				109		%
Thallium	203-1	0.17	0.16	0.17	0.17	3.05	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	1.83	ppb
Tin	118-1	69.38	69.96	69.57	69.64	0.42	ppb
Titanium	47-1	30.48	31.22	30.85	30.85	1.20	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DLX2 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:54:58 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.59	0.58	0.57	0.58	1.66	ppb
Vanadium	51-2	13.10	13.14	13.16	13.13	0.21	ppb
Yttrium	89-1				112		%
Yttrium	89-2				110		%
Zinc	66-2	4289.69	4232.83	4280.36	4267.63	0.71	ppb
Zirconium	90-1	0.37	0.37	0.37	0.37	1.27	ppb
Zirconium	91-1	0.38	0.42	0.37	0.39	6.63	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DLX2 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:58:04 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2188.50	2201.20	2185.43	2191.71	0.38	ppb
Antimony	121-1	27.06	27.07	27.45	27.19	0.82	ppb
Arsenic	75-2	800.04	800.35	797.32	799.24	0.21	ppb
Barium	135-1	79.01	79.33	79.73	79.36	0.46	ppb
Barium	137-1	78.18	78.93	80.33	79.15	1.38	ppb
Beryllium	9-1	0.32	0.30	0.33	0.32	4.55	ppb
Bismuth	209-1				130		%
Bismuth	209-2				125		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.93	7.08	7.60	7.20	4.82	ppb
Cadmium	106-1	-1.58	-3.65	-3.11	-2.78		ppb
Cadmium	111-1	7.23	7.19	7.22	7.21	0.23	ppb
Calcium	43-1	106239.24	108341.79	106216.36	106932.46	1.14	ppb
Calcium	44-1	105873.87	106865.90	105380.56	106040.11	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.96	4.00	4.05	4.00	1.13	ppb
Cobalt	59-2	5.09	5.03	5.14	5.09	1.03	ppb
Copper	63-2	1316.19	1320.12	1325.56	1320.62	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				108		%
Indium	115-2				102		%
Iron	56-2	21586.77	21592.57	21883.03	21687.46	0.78	ppb
Iron	57-2	22073.32	22320.50	22361.28	22251.70	0.70	ppb
Iron	54-2	21396.34	21499.16	21687.10	21527.53	0.68	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DLX2 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:58:04 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5732.51	5781.67	5772.33	5762.17	0.45	ppb
Lead	207-1	5361.82	5419.72	5531.17	5437.57	1.58	ppb
Lead	208-1	5498.29	5563.56	5602.34	5554.73	0.95	ppb
Lithium	6-1				104		%
Magnesium	24-2	1278.34	1278.08	1285.29	1280.57	0.32	ppb
Manganese	55-2	1459.35	1469.34	1469.25	1465.98	0.39	ppb
Molybdenum	94-1	12.04	12.50	12.37	12.30	1.94	ppb
Molybdenum	95-1	14.10	14.45	14.69	14.42	2.06	ppb
Molybdenum	96-1	14.13	14.57	14.45	14.38	1.57	ppb
Molybdenum	97-1	14.25	14.56	14.66	14.49	1.46	ppb
Molybdenum	98-1	14.06	14.54	14.54	14.38	1.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.33	5.07	4.98	5.12	3.57	ppb
Phosphorus	31-2	356.30	369.57	353.10	359.65	2.43	ppb
Potassium	39-2	522.61	526.15	526.91	525.23	0.44	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				97		%
Selenium	82-1	2.83	3.05	2.56	2.81	8.60	ppb
Selenium	77-2	4.94	4.59	3.30	4.28	20.20	ppb
Selenium	78-2	3.67	1.44	2.27	2.46	45.93	ppb
Silicon	28-1	94.43	93.94	103.50	97.29	5.53	ppb
Silver	107-1	47.22	47.09	47.81	47.37	0.81	ppb
Silver	109-1	46.67	46.92	47.84	47.14	1.31	ppb
Sodium	23-2	96.70	96.87	96.54	96.70	0.17	ppb
Strontium	86-1	1091.69	1123.89	1119.70	1111.76	1.57	ppb
Strontium	88-1	1127.25	1157.73	1163.90	1149.63	1.71	ppb
Sulfur	34-1	6989.27	7246.01	7143.34	7126.21	1.81	ppb
Terbium	159-1				112		%
Terbium	159-2				107		%
Thallium	203-1	0.66	0.67	0.66	0.66	0.35	ppb
Thallium	205-1	0.65	0.65	0.63	0.64	2.22	ppb
Tin	118-1	37.31	37.36	37.71	37.46	0.59	ppb
Titanium	47-1	12.37	12.66	12.55	12.53	1.18	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DLX2 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:58:04 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.31	0.32	0.32	0.32	1.18	ppb
Vanadium	51-2	6.54	6.70	6.57	6.60	1.30	ppb
Yttrium	89-1				109		%
Yttrium	89-2				102		%
Zinc	66-2	1570.29	1573.34	1579.17	1574.27	0.29	ppb
Zirconium	90-1	0.28	0.29	0.30	0.29	2.94	ppb
Zirconium	91-1	0.46	0.46	0.52	0.48	7.51	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06DLX2 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:01:09 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2842.54	2872.03	2883.09	2865.89	0.73	ppb
Antimony	121-1	4.58	5.02	4.94	4.85	4.77	ppb
Arsenic	75-2	36.66	37.83	39.00	37.83	3.10	ppb
Barium	135-1	112.78	121.14	119.80	117.90	3.81	ppb
Barium	137-1	113.04	121.22	120.84	118.36	3.90	ppb
Beryllium	9-1	0.80	0.91	0.87	0.86	6.40	ppb
Bismuth	209-1				118		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.36	1.73	2.22	2.10	15.58	ppb
Cadmium	106-1	-9.92	-9.74	-6.68	-8.78		ppb
Cadmium	111-1	1.91	2.04	2.01	1.99	3.32	ppb
Calcium	43-1	1578.68	1691.52	1725.59	1665.26	4.62	ppb
Calcium	44-1	1568.41	1644.59	1680.27	1631.09	3.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.22	5.40	5.27	5.30	1.72	ppb
Cobalt	59-2	2.86	2.96	2.84	2.89	2.15	ppb
Copper	63-2	186.00	189.80	190.13	188.64	1.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				110		%
Indium	115-2				108		%
Iron	56-2	25609.19	25693.30	26074.72	25792.40	0.96	ppb
Iron	57-2	25231.22	25490.15	25726.30	25482.56	0.97	ppb
Iron	54-2	25451.76	25800.93	25786.02	25679.57	0.77	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06DLX2 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:01:09 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	3561.14	3915.29	3835.31	3770.58	4.93	ppb
Lead	207-1	3433.76	3790.74	3730.61	3651.70	5.23	ppb
Lead	208-1	3477.19	3816.68	3736.87	3676.91	4.83	ppb
Lithium	6-1				105		%
Magnesium	24-2	1427.54	1440.57	1447.42	1438.51	0.70	ppb
Manganese	55-2	3258.55	3340.19	3342.57	3313.77	1.44	ppb
Molybdenum	94-1	13.35	14.25	14.68	14.10	4.81	ppb
Molybdenum	95-1	16.04	17.41	17.29	16.91	4.49	ppb
Molybdenum	96-1	15.80	17.14	17.45	16.80	5.22	ppb
Molybdenum	97-1	15.98	17.40	17.50	16.96	5.00	ppb
Molybdenum	98-1	15.94	17.13	17.29	16.79	4.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.58	1.48	1.53	1.53	3.57	ppb
Phosphorus	31-2	823.19	794.95	817.05	811.73	1.83	ppb
Potassium	39-2	414.76	424.12	424.77	421.22	1.33	ppb
Rhodium	103-1				107		%
Rhodium	103-2				109		%
Scandium	45-1				105		%
Scandium	45-2				104		%
Selenium	82-1	0.60	0.80	0.92	0.77	21.08	ppb
Selenium	77-2	3.07	3.94	3.17	3.39	14.04	ppb
Selenium	78-2	0.94	2.05	-0.20	0.93	120.79	ppb
Silicon	28-1	90.91	98.01	99.85	96.26	4.90	ppb
Silver	107-1	11.77	12.73	12.70	12.40	4.42	ppb
Silver	109-1	11.66	12.70	12.59	12.32	4.64	ppb
Sodium	23-2	38.43	40.99	40.58	40.00	3.44	ppb
Strontium	86-1	815.92	868.62	876.69	853.75	3.87	ppb
Strontium	88-1	817.97	873.83	884.85	858.89	4.17	ppb
Sulfur	34-1	2087.51	2431.52	2511.80	2343.61	9.62	ppb
Terbium	159-1				113		%
Terbium	159-2				110		%
Thallium	203-1	0.10	0.09	0.11	0.10	6.79	ppb
Thallium	205-1	0.09	0.10	0.10	0.10	3.42	ppb
Tin	118-1	0.67	0.70	0.69	0.69	2.68	ppb
Titanium	47-1	29.66	31.85	32.99	31.50	5.39	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06DLX2 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:01:09 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.33	0.36	0.36	0.35	4.06	ppb
Vanadium	51-2	6.13	6.29	6.43	6.28	2.39	ppb
Yttrium	89-1				110		%
Yttrium	89-2				108		%
Zinc	66-2	600.42	605.20	614.05	606.56	1.14	ppb
Zirconium	90-1	0.11	0.11	0.12	0.11	3.99	ppb
Zirconium	91-1	0.12	0.17	0.15	0.15	15.83	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DLX2 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:04:15 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	579.13	575.97	579.76	578.29	0.35	ppb
Antimony	121-1	217.32	220.78	216.39	218.16	1.06	ppb
Arsenic	75-2	1417.45	1415.33	1401.22	1411.33	0.62	ppb
Barium	135-1	106.22	108.41	107.17	107.27	1.02	ppb
Barium	137-1	107.75	108.45	106.98	107.73	0.68	ppb
Beryllium	9-1	0.05	0.04	0.06	0.05	18.39	ppb
Bismuth	209-1				248		%
Bismuth	209-2				240		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.03	4.94	5.20	5.06	2.56	ppb
Cadmium	106-1	-2.78	-5.52	-3.37	-3.89		ppb
Cadmium	111-1	4.74	4.68	4.51	4.64	2.51	ppb
Calcium	43-1	117.54	115.44	113.86	115.61	1.60	ppb
Calcium	44-1	114.67	114.67	114.78	114.70	0.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.74	0.82	0.74	0.76	6.16	ppb
Cobalt	59-2	0.94	0.98	0.93	0.95	2.84	ppb
Copper	63-2	3936.38	3962.59	3938.19	3945.72	0.37	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				111		%
Indium	115-1				113		%
Indium	115-2				111		%
Iron	56-2	71504.79	71264.10	70662.06	71143.65	0.61	ppb
Iron	57-2	70079.33	69862.99	69300.97	69747.76	0.58	ppb
Iron	54-2	71236.54	71138.91	70378.39	70917.95	0.66	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DLX2 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:04:15 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	12761.16	12815.90	12822.93	12799.99	0.26	ppb
Lead	207-1	12198.42	12315.60	12197.77	12237.26	0.55	ppb
Lead	208-1	12369.85	12400.41	12385.70	12385.32	0.12	ppb
Lithium	6-1				94		%
Magnesium	24-2	114.77	120.41	116.91	117.36	2.43	ppb
Manganese	55-2	621.80	626.11	625.85	624.59	0.39	ppb
Molybdenum	94-1	82.94	83.18	83.14	83.09	0.15	ppb
Molybdenum	95-1	102.11	100.83	100.66	101.20	0.79	ppb
Molybdenum	96-1	99.85	99.93	98.57	99.45	0.76	ppb
Molybdenum	97-1	102.30	101.69	101.59	101.86	0.38	ppb
Molybdenum	98-1	101.28	100.98	100.25	100.84	0.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.36	0.39	0.51	0.42	18.16	ppb
Phosphorus	31-2	382.45	398.40	373.31	384.72	3.30	ppb
Potassium	39-2	1933.20	1910.16	1905.05	1916.14	0.78	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				106		%
Scandium	45-2				110		%
Selenium	82-1	8.12	8.03	7.92	8.02	1.30	ppb
Selenium	77-2	7.34	9.94	9.18	8.82	15.13	ppb
Selenium	78-2	9.51	7.19	5.94	7.54	24.04	ppb
Silicon	28-1	41.98	43.28	43.89	43.05	2.27	ppb
Silver	107-1	89.96	92.35	91.08	91.13	1.31	ppb
Silver	109-1	90.23	92.02	90.48	90.91	1.07	ppb
Sodium	23-2	53.18	54.94	54.27	54.13	1.64	ppb
Strontium	86-1	545.24	540.23	534.97	540.15	0.95	ppb
Strontium	88-1	548.56	546.00	540.77	545.11	0.73	ppb
Sulfur	34-1	18230.53	18418.31	18094.72	18247.86	0.89	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.87	0.87	0.86	0.87	0.76	ppb
Thallium	205-1	0.87	0.87	0.86	0.87	0.30	ppb
Tin	118-1	31.47	32.29	31.86	31.87	1.29	ppb
Titanium	47-1	3.07	2.83	3.11	3.00	5.02	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DLX2 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:04:15 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.11	0.11	0.11	0.11	1.27	ppb
Vanadium	51-2	11.47	11.40	11.40	11.42	0.34	ppb
Yttrium	89-1				111		%
Yttrium	89-2				111		%
Zinc	66-2	1458.69	1473.56	1465.98	1466.08	0.51	ppb
Zirconium	90-1	0.05	0.05	0.03	0.04	20.71	ppb
Zirconium	91-1	0.34	0.32	0.33	0.33	2.69	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:07:25 DataFile Name : 075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1204.59	1210.72	1199.31	1204.88	0.47	ppb
Antimony	121-1	87.55	88.36	89.45	88.45	1.08	ppb
Arsenic	75-2	678.17	677.97	677.52	677.88	0.05	ppb
Barium	135-1	54.01	53.51	54.47	54.00	0.89	ppb
Barium	137-1	53.90	53.94	54.90	54.25	1.04	ppb
Beryllium	9-1	0.08	0.08	0.12	0.09	22.79	ppb
Bismuth	209-1				193		%
Bismuth	209-2				188		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	43.87	47.70	44.19	45.25	4.68	ppb
Cadmium	106-1	35.47	32.18	37.25	34.97	7.35	ppb
Cadmium	111-1	45.36	45.65	46.09	45.70	0.81	ppb
Calcium	43-1	407.50	418.81	395.63	407.31	2.85	ppb
Calcium	44-1	407.67	422.30	408.97	412.98	1.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.58	1.52	1.56	1.55	1.91	ppb
Cobalt	59-2	5.32	5.32	5.25	5.29	0.80	ppb
Copper	63-2	3353.43	3316.02	3325.28	3331.58	0.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				112		%
Indium	115-1				116		%
Indium	115-2				114		%
Iron	56-2	73764.63	74138.70	73533.71	73812.34	0.41	ppb
Iron	57-2	72512.61	71955.09	71801.26	72089.66	0.52	ppb
Iron	54-2	74007.63	73796.94	73905.76	73903.44	0.14	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:07:25 DataFile Name : 075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15711.97	15883.56	15857.66	15817.73	0.58	ppb
Lead	207-1	15105.86	15132.20	14965.06	15067.71	0.60	ppb
Lead	208-1	15304.00	15498.60	15290.88	15364.49	0.76	ppb
Lithium	6-1				92		%
Magnesium	24-2	429.22	422.83	428.35	426.80	0.81	ppb
Manganese	55-2	1761.55	1760.06	1750.40	1757.33	0.34	ppb
Molybdenum	94-1	70.52	72.03	71.43	71.33	1.07	ppb
Molybdenum	95-1	84.75	87.09	85.97	85.94	1.36	ppb
Molybdenum	96-1	84.45	85.64	86.44	85.51	1.17	ppb
Molybdenum	97-1	85.24	86.97	86.44	86.22	1.03	ppb
Molybdenum	98-1	84.87	85.56	86.06	85.50	0.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.39	1.44	1.44	1.42	1.85	ppb
Phosphorus	31-2	353.14	335.77	341.04	343.32	2.59	ppb
Potassium	39-2	1765.80	1758.82	1762.00	1762.21	0.20	ppb
Rhodium	103-1				112		%
Rhodium	103-2				113		%
Scandium	45-1				109		%
Scandium	45-2				111		%
Selenium	82-1	6.47	6.30	6.26	6.34	1.71	ppb
Selenium	77-2	6.39	5.70	7.09	6.39	10.86	ppb
Selenium	78-2	7.80	7.28	6.60	7.23	8.35	ppb
Silicon	28-1	55.97	59.87	57.47	57.77	3.40	ppb
Silver	107-1	109.25	107.06	111.90	109.40	2.22	ppb
Silver	109-1	104.96	106.31	106.49	105.92	0.79	ppb
Sodium	23-2	58.21	57.76	57.54	57.84	0.59	ppb
Strontium	86-1	389.37	398.01	390.44	392.61	1.20	ppb
Strontium	88-1	392.08	398.68	399.58	396.78	1.03	ppb
Sulfur	34-1	28275.57	30079.79	29289.56	29214.97	3.10	ppb
Terbium	159-1				114		%
Terbium	159-2				111		%
Thallium	203-1	0.79	0.80	0.79	0.79	1.15	ppb
Thallium	205-1	0.76	0.78	0.78	0.77	1.81	ppb
Tin	118-1	28.60	28.65	29.08	28.78	0.92	ppb
Titanium	47-1	3.53	3.67	3.67	3.63	2.30	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:07:25 DataFile Name : 075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.23	0.23	0.23	0.23	1.61	ppb
Vanadium	51-2	11.10	10.83	10.79	10.91	1.54	ppb
Yttrium	89-1				114		%
Yttrium	89-2				113		%
Zinc	66-2	9807.42	9774.91	9643.60	9741.98	0.89	ppb
Zirconium	90-1	0.08	0.07	0.06	0.07	12.35	ppb
Zirconium	91-1	0.21	0.22	0.20	0.21	4.76	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:10:33 DataFile Name : 076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3259.33	3287.05	3239.06	3261.82	0.74	ppb
Antimony	121-1	36.63	37.03	36.57	36.74	0.67	ppb
Arsenic	75-2	113.46	116.24	112.90	114.20	1.57	ppb
Barium	135-1	139.07	139.75	139.25	139.36	0.25	ppb
Barium	137-1	138.94	140.56	139.53	139.68	0.59	ppb
Beryllium	9-1	0.18	0.22	0.19	0.20	9.89	ppb
Bismuth	209-1				167		%
Bismuth	209-2				162		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.96	4.00	4.40	4.12	5.86	ppb
Cadmium	106-1	-3.70	-3.00	-4.49	-3.73		ppb
Cadmium	111-1	3.79	4.00	3.72	3.84	3.77	ppb
Calcium	43-1	1180.48	1190.05	1189.50	1186.68	0.45	ppb
Calcium	44-1	1167.39	1194.61	1179.19	1180.40	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11.02	10.93	10.95	10.97	0.45	ppb
Cobalt	59-2	4.71	4.76	4.72	4.73	0.54	ppb
Copper	63-2	1860.29	1897.59	1867.95	1875.28	1.05	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				111		%
Indium	115-1				113		%
Indium	115-2				111		%
Iron	56-2	77557.21	77090.89	77068.03	77238.71	0.36	ppb
Iron	57-2	76068.59	75603.62	74877.15	75516.45	0.80	ppb
Iron	54-2	77364.68	76845.88	77132.47	77114.35	0.34	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:10:33 DataFile Name : 076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	19462.68	20003.70	19993.65	19820.01	1.56	ppb
Lead	207-1	18598.10	19174.03	18996.84	18922.99	1.56	ppb
Lead	208-1	19056.56	19519.68	19355.07	19310.44	1.22	ppb
Lithium	6-1				92		%
Magnesium	24-2	1815.54	1812.26	1805.88	1811.23	0.27	ppb
Manganese	55-2	1008.97	1007.36	999.35	1005.23	0.51	ppb
Molybdenum	94-1	36.85	37.18	37.63	37.22	1.06	ppb
Molybdenum	95-1	44.23	44.75	44.74	44.57	0.67	ppb
Molybdenum	96-1	44.03	44.67	44.13	44.28	0.78	ppb
Molybdenum	97-1	44.52	44.97	45.41	44.97	0.99	ppb
Molybdenum	98-1	43.97	44.92	44.56	44.48	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.56	7.44	7.37	7.46	1.23	ppb
Phosphorus	31-2	1132.01	1156.59	1116.46	1135.02	1.78	ppb
Potassium	39-2	649.63	655.74	656.37	653.91	0.57	ppb
Rhodium	103-1				112		%
Rhodium	103-2				112		%
Scandium	45-1				109		%
Scandium	45-2				111		%
Selenium	82-1	5.30	5.39	5.50	5.40	1.80	ppb
Selenium	77-2	6.71	6.92	6.54	6.72	2.79	ppb
Selenium	78-2	7.01	7.58	5.79	6.79	13.48	ppb
Silicon	28-1	72.52	73.51	73.97	73.33	1.02	ppb
Silver	107-1	89.93	90.04	89.61	89.86	0.25	ppb
Silver	109-1	88.15	89.24	88.56	88.65	0.62	ppb
Sodium	23-2	94.28	95.68	93.44	94.47	1.20	ppb
Strontium	86-1	470.09	478.35	486.91	478.45	1.76	ppb
Strontium	88-1	479.08	487.79	488.70	485.19	1.09	ppb
Sulfur	34-1	9741.05	9761.90	9785.57	9762.84	0.23	ppb
Terbium	159-1				115		%
Terbium	159-2				111		%
Thallium	203-1	0.15	0.17	0.15	0.15	8.08	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	1.61	ppb
Tin	118-1	26.66	26.85	26.51	26.68	0.64	ppb
Titanium	47-1	55.88	57.58	56.10	56.52	1.64	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:10:33 DataFile Name : 076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.38	0.37	0.38	0.38	0.80	ppb
Vanadium	51-2	14.24	14.36	14.05	14.22	1.10	ppb
Yttrium	89-1				115		%
Yttrium	89-2				113		%
Zinc	66-2	967.14	969.99	963.09	966.74	0.36	ppb
Zirconium	90-1	0.24	0.23	0.24	0.24	1.72	ppb
Zirconium	91-1	0.28	0.29	0.28	0.28	1.57	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10DLX2 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:13:46 DataFile Name : 077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6837.49	6993.63	6936.29	6922.47	1.14	ppb
Antimony	121-1	6.17	6.12	6.21	6.17	0.75	ppb
Arsenic	75-2	45.90	45.44	44.85	45.40	1.16	ppb
Barium	135-1	136.56	134.00	136.35	135.64	1.05	ppb
Barium	137-1	136.71	135.59	137.46	136.59	0.69	ppb
Beryllium	9-1	0.55	0.54	0.53	0.54	2.20	ppb
Bismuth	209-1				116		%
Bismuth	209-2				114		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.43	12.68	11.39	11.83	6.21	ppb
Cadmium	106-1	4.02	4.09	2.39	3.50	27.53	ppb
Cadmium	111-1	12.18	11.69	12.18	12.01	2.37	ppb
Calcium	43-1	2326.37	2279.13	2291.07	2298.86	1.07	ppb
Calcium	44-1	2286.71	2242.96	2294.49	2274.72	1.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.64	6.72	6.73	6.70	0.74	ppb
Cobalt	59-2	7.46	7.56	7.59	7.54	0.91	ppb
Copper	63-2	368.41	366.24	363.78	366.14	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				112		%
Indium	115-2				109		%
Iron	56-2	41807.12	42514.81	42273.47	42198.47	0.85	ppb
Iron	57-2	41284.22	41292.18	41589.77	41388.72	0.42	ppb
Iron	54-2	42361.18	42334.10	42615.32	42436.87	0.37	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10DLX2 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:13:46 DataFile Name : 077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2733.05	2667.26	2685.89	2695.40	1.26	ppb
Lead	207-1	2612.82	2602.32	2589.30	2601.48	0.45	ppb
Lead	208-1	2638.52	2613.83	2618.34	2623.56	0.50	ppb
Lithium	6-1				94		%
Magnesium	24-2	4564.27	4597.70	4577.32	4579.76	0.37	ppb
Manganese	55-2	1440.50	1458.31	1458.86	1452.56	0.72	ppb
Molybdenum	94-1	9.60	9.60	9.67	9.62	0.45	ppb
Molybdenum	95-1	11.10	11.05	10.93	11.03	0.76	ppb
Molybdenum	96-1	11.37	11.23	11.19	11.26	0.82	ppb
Molybdenum	97-1	11.18	10.99	11.16	11.11	0.96	ppb
Molybdenum	98-1	10.96	10.92	10.91	10.93	0.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.24	5.34	5.48	5.35	2.29	ppb
Phosphorus	31-2	1719.21	1798.45	1738.26	1751.97	2.36	ppb
Potassium	39-2	1221.88	1235.97	1237.51	1231.79	0.70	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				107		%
Scandium	45-2				108		%
Selenium	82-1	1.17	0.82	1.02	1.00	17.56	ppb
Selenium	77-2	5.72	5.45	6.53	5.90	9.52	ppb
Selenium	78-2	1.74	2.02	3.08	2.28	31.04	ppb
Silicon	28-1	149.56	145.93	150.41	148.63	1.60	ppb
Silver	107-1	12.68	12.46	12.62	12.59	0.91	ppb
Silver	109-1	12.69	12.52	12.62	12.61	0.67	ppb
Sodium	23-2	122.77	124.23	125.20	124.07	0.99	ppb
Strontium	86-1	757.77	758.46	754.29	756.84	0.30	ppb
Strontium	88-1	764.10	758.36	767.39	763.28	0.60	ppb
Sulfur	34-1	5005.54	4737.78	4875.92	4873.08	2.75	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.17	0.17	0.18	0.17	5.12	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	1.38	ppb
Tin	118-1	1.55	1.54	1.55	1.55	0.20	ppb
Titanium	47-1	83.83	82.94	84.68	83.82	1.04	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10DLX2 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:13:46 DataFile Name : 077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.78	0.78	0.78	0.78	0.33	ppb
Vanadium	51-2	21.41	21.61	21.19	21.41	0.99	ppb
Yttrium	89-1				113		%
Yttrium	89-2				111		%
Zinc	66-2	2953.15	2949.70	2978.31	2960.39	0.53	ppb
Zirconium	90-1	0.32	0.30	0.31	0.31	3.65	ppb
Zirconium	91-1	0.35	0.34	0.31	0.33	6.43	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:16:51 DataFile Name : 078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1727.03	1726.77	1720.75	1724.85	0.21	ppb
Antimony	121-1	323.74	318.59	325.85	322.73	1.16	ppb
Arsenic	75-2	1453.82	1440.28	1472.68	1455.59	1.12	ppb
Barium	135-1	118.04	116.76	118.32	117.71	0.71	ppb
Barium	137-1	117.65	116.85	117.05	117.18	0.36	ppb
Beryllium	9-1	0.15	0.19	0.16	0.17	14.38	ppb
Bismuth	209-1				358		%
Bismuth	209-2				342		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	16.34	16.11	15.91	16.12	1.35	ppb
Cadmium	106-1	4.78	4.43	6.30	5.17	19.27	ppb
Cadmium	111-1	14.66	14.57	14.64	14.63	0.32	ppb
Calcium	43-1	1086.80	1089.95	1067.05	1081.27	1.15	ppb
Calcium	44-1	1043.73	1054.10	1029.43	1042.42	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.46	4.52	4.60	4.53	1.65	ppb
Cobalt	59-2	2.31	2.32	2.31	2.31	0.35	ppb
Copper	63-2	6994.04	6975.84	7046.25	7005.38	0.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				112		%
Indium	115-1				117		%
Indium	115-2				115		%
Iron	56-2	97543.09	97949.36	96403.47	97298.64	0.82	ppb
Iron	57-2	95407.62	96080.23	94014.31	95167.39	1.11	ppb
Iron	54-2	97869.71	97463.09	97045.18	97459.33	0.42	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:16:51 DataFile Name : 078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	17421.01	17226.85	17412.89	17353.58	0.63	ppb
Lead	207-1	16519.43	16425.82	16508.41	16484.55	0.31	ppb
Lead	208-1	16946.02	16829.76	16922.46	16899.41	0.36	ppb
Lithium	6-1				92		%
Magnesium	24-2	546.22	543.95	535.55	541.91	1.04	ppb
Manganese	55-2	1275.19	1274.91	1256.08	1268.73	0.86	ppb
Molybdenum	94-1	219.71	216.69	215.64	217.35	0.97	ppb
Molybdenum	95-1	275.38	274.71	268.61	272.90	1.37	ppb
Molybdenum	96-1	272.29	272.78	266.01	270.36	1.40	ppb
Molybdenum	97-1	266.61	263.96	262.62	264.40	0.77	ppb
Molybdenum	98-1	275.82	265.79	270.12	270.57	1.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.53	1.53	1.48	1.51	1.77	ppb
Phosphorus	31-2	570.35	564.46	533.13	555.98	3.60	ppb
Potassium	39-2	1128.38	1131.68	1117.29	1125.79	0.67	ppb
Rhodium	103-1				111		%
Rhodium	103-2				113		%
Scandium	45-1				108		%
Scandium	45-2				111		%
Selenium	82-1	14.22	14.00	13.88	14.03	1.21	ppb
Selenium	77-2	17.36	17.10	15.43	16.63	6.27	ppb
Selenium	78-2	14.62	13.86	16.48	14.99	9.00	ppb
Silicon	28-1	45.13	46.15	45.82	45.70	1.13	ppb
Silver	107-1	86.39	85.80	86.64	86.27	0.50	ppb
Silver	109-1	85.99	84.80	85.96	85.58	0.79	ppb
Sodium	23-2	91.45	92.25	90.44	91.38	1.00	ppb
Strontium	86-1	3514.31	3496.93	3495.39	3502.21	0.30	ppb
Strontium	88-1	3664.58	3706.85	3647.66	3673.03	0.83	ppb
Sulfur	34-1	22154.73	19907.97	19796.20	20619.63	6.45	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.48	0.50	0.50	0.50	2.00	ppb
Thallium	205-1	0.48	0.48	0.48	0.48	0.62	ppb
Tin	118-1	40.96	40.25	40.80	40.67	0.92	ppb
Titanium	47-1	19.07	18.81	18.82	18.90	0.79	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:16:51 DataFile Name : 078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.37	0.37	0.37	0.37	0.45	ppb
Vanadium	51-2	15.47	15.58	15.25	15.43	1.12	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	3707.26	3749.80	3667.88	3708.31	1.10	ppb
Zirconium	90-1	0.37	0.38	0.35	0.37	3.59	ppb
Zirconium	91-1	0.67	0.66	0.71	0.68	4.19	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03DLX4 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:19:58 DataFile Name : 079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2092.42	2089.65	2087.08	2089.72	0.13	ppb
Antimony	121-1	5.00	5.10	5.08	5.06	1.09	ppb
Arsenic	75-2	32.97	33.68	32.59	33.08	1.68	ppb
Barium	135-1	52.03	52.97	52.63	52.54	0.92	ppb
Barium	137-1	51.21	52.53	52.55	52.10	1.48	ppb
Beryllium	9-1	0.34	0.33	0.31	0.33	5.25	ppb
Bismuth	209-1				115		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.18	3.03	3.04	3.08	2.78	ppb
Cadmium	106-1	-5.65	-5.91	-4.39	-5.32		ppb
Cadmium	111-1	2.61	2.88	2.66	2.72	5.25	ppb
Calcium	43-1	639.56	665.57	683.87	663.00	3.36	ppb
Calcium	44-1	655.41	668.21	676.55	666.72	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.91	17.82	17.85	17.86	0.26	ppb
Cobalt	59-2	2.76	2.73	2.78	2.75	1.01	ppb
Copper	63-2	211.29	211.68	210.71	211.23	0.23	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				112		%
Indium	115-2				111		%
Iron	56-2	26459.71	26256.99	26219.80	26312.16	0.49	ppb
Iron	57-2	26147.46	25758.48	25797.71	25901.21	0.83	ppb
Iron	54-2	26323.11	26177.43	26276.33	26258.96	0.28	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03DLX4 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:19:58 DataFile Name : 079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2817.06	2891.66	2884.91	2864.55	1.44	ppb
Lead	207-1	2703.29	2803.36	2754.66	2753.77	1.82	ppb
Lead	208-1	2734.96	2822.65	2790.11	2782.57	1.59	ppb
Lithium	6-1				95		%
Magnesium	24-2	1271.76	1272.75	1276.98	1273.83	0.22	ppb
Manganese	55-2	984.83	977.52	976.34	979.56	0.47	ppb
Molybdenum	94-1	15.32	16.05	15.69	15.68	2.31	ppb
Molybdenum	95-1	18.59	19.16	19.40	19.05	2.19	ppb
Molybdenum	96-1	18.58	19.29	19.04	18.97	1.91	ppb
Molybdenum	97-1	18.71	19.53	19.14	19.13	2.14	ppb
Molybdenum	98-1	18.54	19.22	19.02	18.93	1.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.97	3.84	3.94	3.92	1.77	ppb
Phosphorus	31-2	544.82	546.99	544.05	545.29	0.28	ppb
Potassium	39-2	760.09	763.93	762.81	762.28	0.26	ppb
Rhodium	103-1				111		%
Rhodium	103-2				111		%
Scandium	45-1				108		%
Scandium	45-2				109		%
Selenium	82-1	0.60	0.79	0.31	0.57	42.07	ppb
Selenium	77-2	2.09	1.51	1.50	1.70	19.73	ppb
Selenium	78-2	1.87	-0.07	1.67	1.16	92.46	ppb
Silicon	28-1	51.04	53.10	53.06	52.40	2.25	ppb
Silver	107-1	12.16	12.30	12.47	12.31	1.27	ppb
Silver	109-1	12.05	12.29	12.16	12.17	1.01	ppb
Sodium	23-2	67.39	68.82	67.48	67.90	1.18	ppb
Strontium	86-1	251.06	260.69	257.82	256.52	1.93	ppb
Strontium	88-1	254.68	268.40	260.19	261.09	2.64	ppb
Sulfur	34-1	3070.82	3247.95	3233.86	3184.21	3.09	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.11	0.11	0.12	0.11	7.23	ppb
Thallium	205-1	0.12	0.12	0.11	0.12	5.42	ppb
Tin	118-1	4.36	4.40	4.42	4.39	0.68	ppb
Titanium	47-1	51.48	52.37	53.18	52.35	1.62	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03DLX4 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:19:58 DataFile Name : 079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.22	0.22	0.22	0.22	1.53	ppb
Vanadium	51-2	7.60	7.62	7.59	7.60	0.18	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	779.50	778.68	777.84	778.67	0.11	ppb
Zirconium	90-1	0.07	0.08	0.07	0.08	7.59	ppb
Zirconium	91-1	0.12	0.10	0.09	0.10	17.28	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:23:05 DataFile Name : 080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2606.99	2626.08	2590.43	2607.84	0.68	ppb
Antimony	121-1	13.62	13.58	13.59	13.60	0.16	ppb
Arsenic	75-2	23.92	24.07	23.85	23.95	0.47	ppb
Barium	135-1	52.73	52.28	52.20	52.41	0.55	ppb
Barium	137-1	52.32	52.07	52.34	52.24	0.28	ppb
Beryllium	9-1	0.33	0.29	0.28	0.30	8.39	ppb
Bismuth	209-1				139		%
Bismuth	209-2				138		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.55	12.99	12.66	12.40	6.05	ppb
Cadmium	106-1	4.99	1.50	4.75	3.75	51.99	ppb
Cadmium	111-1	13.41	13.01	13.26	13.22	1.54	ppb
Calcium	43-1	1112.80	1080.48	1103.26	1098.85	1.51	ppb
Calcium	44-1	1097.55	1088.31	1098.53	1094.79	0.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.72	1.76	1.66	1.71	3.10	ppb
Cobalt	59-2	6.70	6.65	6.49	6.61	1.72	ppb
Copper	63-2	2489.02	2509.09	2484.31	2494.14	0.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				111		%
Indium	115-2				109		%
Iron	56-2	20237.35	20464.91	20242.90	20315.05	0.64	ppb
Iron	57-2	20147.83	20055.81	19741.57	19981.74	1.07	ppb
Iron	54-2	20276.66	20480.20	20137.99	20298.28	0.85	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:23:05 DataFile Name : 080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5408.06	5347.12	5270.54	5341.91	1.29	ppb
Lead	207-1	5093.81	5090.74	5021.71	5068.75	0.80	ppb
Lead	208-1	5179.31	5164.07	5108.34	5150.57	0.73	ppb
Lithium	6-1				94		%
Magnesium	24-2	1416.88	1417.85	1404.61	1413.11	0.52	ppb
Manganese	55-2	6150.82	6147.92	6108.81	6135.85	0.38	ppb
Molybdenum	94-1	21.20	21.10	21.47	21.26	0.89	ppb
Molybdenum	95-1	25.76	25.40	25.75	25.64	0.80	ppb
Molybdenum	96-1	25.55	24.86	25.50	25.30	1.52	ppb
Molybdenum	97-1	25.53	25.23	25.56	25.44	0.71	ppb
Molybdenum	98-1	25.54	25.07	25.53	25.38	1.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.25	2.29	2.41	2.32	3.51	ppb
Phosphorus	31-2	352.47	380.04	373.39	368.63	3.90	ppb
Potassium	39-2	311.37	317.97	315.16	314.83	1.05	ppb
Rhodium	103-1				110		%
Rhodium	103-2				111		%
Scandium	45-1				107		%
Scandium	45-2				108		%
Selenium	82-1	2.53	2.54	2.41	2.49	3.07	ppb
Selenium	77-2	5.41	4.83	3.97	4.74	15.40	ppb
Selenium	78-2	3.97	4.67	3.35	3.99	16.56	ppb
Silicon	28-1	72.96	71.10	74.00	72.69	2.02	ppb
Silver	107-1	46.29	46.10	46.46	46.29	0.39	ppb
Silver	109-1	45.85	45.90	46.22	45.99	0.44	ppb
Sodium	23-2	28.47	27.27	27.60	27.78	2.24	ppb
Strontium	86-1	254.19	251.23	248.66	251.36	1.10	ppb
Strontium	88-1	252.85	250.85	255.33	253.01	0.89	ppb
Sulfur	34-1	3796.96	3681.45	3797.10	3758.50	1.78	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.09	0.10	0.09	0.09	3.99	ppb
Thallium	205-1	0.10	0.10	0.10	0.10	1.80	ppb
Tin	118-1	36.68	36.63	36.55	36.62	0.18	ppb
Titanium	47-1	16.63	16.21	16.02	16.29	1.91	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:23:05 DataFile Name : 080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.36	0.36	0.36	0.36	1.00	ppb
Vanadium	51-2	7.00	6.99	6.90	6.96	0.78	ppb
Yttrium	89-1				112		%
Yttrium	89-2				111		%
Zinc	66-2	2288.10	2301.29	2247.16	2278.85	1.24	ppb
Zirconium	90-1	0.19	0.18	0.19	0.19	3.89	ppb
Zirconium	91-1	0.21	0.20	0.20	0.20	2.91	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:26:12 DataFile Name : 081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1046.07	1059.18	1044.67	1049.97	0.76	ppb
Antimony	121-1	14.52	14.38	14.70	14.54	1.10	ppb
Arsenic	75-2	386.26	378.51	380.50	381.76	1.05	ppb
Barium	135-1	38.13	37.87	37.99	37.99	0.35	ppb
Barium	137-1	38.02	37.78	38.48	38.09	0.93	ppb
Beryllium	9-1	0.15	0.14	0.16	0.15	5.23	ppb
Bismuth	209-1				121		%
Bismuth	209-2				117		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.64	3.14	3.98	3.59	11.81	ppb
Cadmium	106-1	-5.17	-6.46	-4.15	-5.26		ppb
Cadmium	111-1	3.58	3.38	3.34	3.43	3.69	ppb
Calcium	43-1	51229.33	49799.34	52144.47	51057.71	2.31	ppb
Calcium	44-1	51124.23	50500.65	51689.74	51104.87	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.86	1.87	1.86	1.87	0.24	ppb
Cobalt	59-2	2.37	2.49	2.47	2.44	2.70	ppb
Copper	63-2	635.88	627.96	638.28	634.04	0.85	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				109		%
Indium	115-1				110		%
Indium	115-2				106		%
Iron	56-2	10265.70	10332.75	10286.92	10295.12	0.33	ppb
Iron	57-2	10619.55	10713.80	10664.21	10665.85	0.44	ppb
Iron	54-2	10317.85	10341.87	10333.72	10331.15	0.12	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:26:12 DataFile Name : 081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2968.81	2943.11	2988.36	2966.76	0.77	ppb
Lead	207-1	2809.89	2767.76	2785.98	2787.87	0.76	ppb
Lead	208-1	2859.88	2831.37	2851.47	2847.58	0.51	ppb
Lithium	6-1				99		%
Magnesium	24-2	615.72	613.93	612.51	614.06	0.26	ppb
Manganese	55-2	698.91	701.80	714.08	704.93	1.14	ppb
Molybdenum	94-1	5.91	5.91	5.96	5.92	0.46	ppb
Molybdenum	95-1	6.94	6.98	7.09	7.01	1.14	ppb
Molybdenum	96-1	6.77	6.86	6.97	6.87	1.44	ppb
Molybdenum	97-1	6.85	6.93	7.00	6.93	1.07	ppb
Molybdenum	98-1	6.76	6.85	7.05	6.89	2.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.44	2.43	2.46	2.44	0.52	ppb
Phosphorus	31-2	166.89	173.53	165.70	168.71	2.50	ppb
Potassium	39-2	269.06	270.80	271.59	270.48	0.48	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				106		%
Scandium	45-2				101		%
Selenium	82-1	1.53	1.65	1.42	1.53	7.37	ppb
Selenium	77-2	2.58	1.27	1.76	1.87	35.44	ppb
Selenium	78-2	1.73	0.92	1.92	1.52	34.90	ppb
Silicon	28-1	44.17	43.08	44.10	43.79	1.40	ppb
Silver	107-1	22.98	22.76	23.07	22.94	0.70	ppb
Silver	109-1	22.80	22.41	22.98	22.73	1.29	ppb
Sodium	23-2	48.52	49.19	49.17	48.96	0.77	ppb
Strontium	86-1	518.80	529.73	534.98	527.84	1.56	ppb
Strontium	88-1	531.62	535.25	541.28	536.05	0.91	ppb
Sulfur	34-1	3169.56	3174.41	3267.54	3203.84	1.72	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	0.31	0.32	0.34	0.32	4.19	ppb
Thallium	205-1	0.33	0.32	0.33	0.33	1.62	ppb
Tin	118-1	17.97	17.91	18.12	18.00	0.61	ppb
Titanium	47-1	5.94	6.04	5.87	5.95	1.44	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:26:12 DataFile Name : 081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.16	0.16	0.17	0.16	3.15	ppb
Vanadium	51-2	3.17	3.14	3.07	3.13	1.73	ppb
Yttrium	89-1				109		%
Yttrium	89-2				105		%
Zinc	66-2	747.85	753.48	750.45	750.60	0.38	ppb
Zirconium	90-1	0.12	0.13	0.13	0.13	3.43	ppb
Zirconium	91-1	0.22	0.23	0.22	0.22	2.07	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:29:17 DataFile Name : 082CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50035.15	50436.60	50052.92	50174.89	0.45	ppb
Antimony	121-1	465.72	499.29	494.95	486.65	3.75	ppb
Arsenic	75-2	478.34	484.97	484.52	482.61	0.77	ppb
Barium	135-1	2286.98	2414.85	2409.74	2370.52	3.05	ppb
Barium	137-1	2304.16	2424.32	2423.05	2383.84	2.89	ppb
Beryllium	9-1	462.33	492.16	486.48	480.32	3.30	ppb
Bismuth	209-1				105		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	473.88	495.05	498.46	489.13	2.72	ppb
Cadmium	106-1	453.09	488.22	486.03	475.78	4.14	ppb
Cadmium	111-1	452.71	484.47	477.65	471.61	3.55	ppb
Calcium	43-1	242614.26	253934.81	257456.63	251335.23	3.09	ppb
Calcium	44-1	239250.52	252044.04	256890.71	249395.09	3.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.27	509.88	508.44	504.86	1.48	ppb
Cobalt	59-2	494.83	507.30	501.28	501.14	1.24	ppb
Copper	63-2	4909.01	4937.23	4963.86	4936.70	0.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				89		%
Iron	56-2	132179.83	131859.70	133413.50	132484.34	0.62	ppb
Iron	57-2	131799.89	132376.52	132489.64	132222.02	0.28	ppb
Iron	54-2	131625.67	132216.55	131800.53	131880.92	0.23	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:29:17 DataFile Name : 082CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2402.02	2552.51	2504.04	2486.19	3.09	ppb
Lead	207-1	2377.42	2510.90	2486.50	2458.27	2.89	ppb
Lead	208-1	2374.32	2509.95	2489.01	2457.76	2.97	ppb
Lithium	6-1				106		%
Magnesium	24-2	254557.12	253719.88	253631.53	253969.51	0.20	ppb
Manganese	55-2	5022.86	4972.26	5037.17	5010.76	0.68	ppb
Molybdenum	94-1	4738.16	4984.82	4969.10	4897.36	2.82	ppb
Molybdenum	95-1	4699.31	4959.82	4925.67	4861.60	2.91	ppb
Molybdenum	96-1	4712.60	4975.93	4946.41	4878.31	2.96	ppb
Molybdenum	97-1	4710.32	4938.40	4947.34	4865.35	2.76	ppb
Molybdenum	98-1	4683.62	4925.97	4927.56	4845.72	2.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	505.28	508.82	505.90	506.67	0.37	ppb
Phosphorus	31-2	9825.92	9917.70	9882.80	9875.47	0.47	ppb
Potassium	39-2	123066.31	124315.86	124724.20	124035.46	0.70	ppb
Rhodium	103-1				91		%
Rhodium	103-2				87		%
Scandium	45-1				94		%
Scandium	45-2				83		%
Selenium	82-1	461.71	490.07	488.95	480.24	3.34	ppb
Selenium	77-2	483.33	508.88	463.22	485.15	4.72	ppb
Selenium	78-2	483.62	499.48	490.75	491.28	1.62	ppb
Silicon	28-1	512.95	537.76	549.25	533.32	3.48	ppb
Silver	107-1	461.18	488.83	487.16	479.06	3.24	ppb
Silver	109-1	461.23	489.25	482.68	477.72	3.07	ppb
Sodium	23-2	252655.21	254536.44	252382.17	253191.27	0.46	ppb
Strontium	86-1	11562.28	12257.69	12275.98	12031.98	3.38	ppb
Strontium	88-1	11623.05	12373.31	12371.72	12122.69	3.57	ppb
Sulfur	34-1	9084.18	9772.19	10101.33	9652.57	5.38	ppb
Terbium	159-1				108		%
Terbium	159-2				101		%
Thallium	203-1	487.59	504.42	502.81	498.27	1.86	ppb
Thallium	205-1	490.19	505.99	502.79	499.66	1.67	ppb
Tin	118-1	459.36	477.49	480.12	472.32	2.39	ppb
Titanium	47-1	4575.01	4905.74	4970.92	4817.22	4.41	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:29:17 DataFile Name : 082CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	469.16	504.31	498.08	490.51	3.82	ppb
Vanadium	51-2	506.09	512.37	507.21	508.56	0.66	ppb
Yttrium	89-1				98		%
Yttrium	89-2				89		%
Zinc	66-2	5048.45	5032.58	5086.49	5055.84	0.55	ppb
Zirconium	90-1	468.12	498.84	498.47	488.48	3.61	ppb
Zirconium	91-1	468.27	495.58	493.83	485.89	3.15	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:32:00 DataFile Name : 083CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.17	2.39	2.55	2.37	7.88	ppb
Antimony	121-1	0.28	0.21	0.18	0.22	23.47	ppb
Arsenic	75-2	0.04	0.03	0.05	0.04	29.38	ppb
Barium	135-1	0.59	0.35	0.21	0.38	50.22	ppb
Barium	137-1	0.56	0.35	0.21	0.37	47.53	ppb
Beryllium	9-1	0.16	0.10	0.08	0.11	34.32	ppb
Bismuth	209-1				115		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.06	0.07	0.21	0.12	73.07	ppb
Cadmium	106-1	-18.25	-16.70	-17.34	-17.43		ppb
Cadmium	111-1	-0.08	-0.12	-0.13	-0.11		ppb
Calcium	43-1	58.81	33.25	12.99	35.02	65.58	ppb
Calcium	44-1	59.13	32.28	18.34	36.58	56.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.04	0.05	0.04	26.85	ppb
Cobalt	59-2	0.02	0.02	0.01	0.02	26.57	ppb
Copper	63-2	0.59	0.61	0.54	0.58	6.12	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				95		%
Iron	56-2	9.50	8.95	8.41	8.95	6.13	ppb
Iron	57-2	7.28	5.55	6.72	6.52	13.50	ppb
Iron	54-2	8.27	7.65	7.72	7.88	4.31	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:32:00 DataFile Name : 083CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.22	0.91	0.77	0.97	23.72	ppb
Lead	207-1	1.14	0.85	0.75	0.91	22.63	ppb
Lead	208-1	1.17	0.89	0.75	0.94	22.68	ppb
Lithium	6-1				110		%
Magnesium	24-2	14.27	13.43	12.42	13.37	6.93	ppb
Manganese	55-2	0.41	0.45	0.36	0.41	10.14	ppb
Molybdenum	94-1	1.26	0.75	0.49	0.83	46.76	ppb
Molybdenum	95-1	1.28	0.73	0.53	0.85	45.81	ppb
Molybdenum	96-1	1.27	0.75	0.52	0.85	45.36	ppb
Molybdenum	97-1	1.19	0.74	0.54	0.82	40.63	ppb
Molybdenum	98-1	1.26	0.74	0.48	0.82	48.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.05	-0.04	-0.03		ppb
Phosphorus	31-2	-29.93	-31.05	-32.90	-31.29		ppb
Potassium	39-2	5.66	5.30	4.71	5.22	9.17	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				91		%
Scandium	45-2				83		%
Selenium	82-1	-0.22	-0.47	-0.57	-0.42		ppb
Selenium	77-2	0.00	0.18	0.00	0.06	173.21	ppb
Selenium	78-2	-0.54	-1.03	-0.77	-0.78		ppb
Silicon	28-1	-12.60	-12.91	-12.79	-12.77		ppb
Silver	107-1	0.17	0.11	0.08	0.12	38.03	ppb
Silver	109-1	0.16	0.11	0.08	0.11	35.95	ppb
Sodium	23-2	33.49	33.14	30.93	32.52	4.27	ppb
Strontium	86-1	2.46	1.73	0.65	1.61	56.20	ppb
Strontium	88-1	2.87	1.67	1.24	1.93	43.80	ppb
Sulfur	34-1	-422.06	-435.98	-469.71	-442.58		ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	0.15	0.10	0.08	0.11	30.22	ppb
Thallium	205-1	0.14	0.11	0.07	0.11	33.12	ppb
Tin	118-1	0.12	0.08	0.05	0.09	40.35	ppb
Titanium	47-1	1.21	0.68	0.34	0.74	58.90	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:32:00 DataFile Name : 083CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.11	0.06	0.04	0.07	54.82	ppb
Vanadium	51-2	0.03	0.04	0.02	0.03	36.25	ppb
Yttrium	89-1				98		%
Yttrium	89-2				92		%
Zinc	66-2	0.59	0.49	0.46	0.51	12.56	ppb
Zirconium	90-1	0.14	0.08	0.06	0.09	46.04	ppb
Zirconium	91-1	0.13	0.11	0.06	0.10	33.67	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:35:16 DataFile Name : 084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2192.41	2188.07	2190.06	2190.18	0.10	ppb
Antimony	121-1	1.13	1.16	1.11	1.13	2.14	ppb
Arsenic	75-2	7.71	8.56	8.08	8.12	5.22	ppb
Barium	135-1	12.24	12.76	12.47	12.49	2.09	ppb
Barium	137-1	12.34	12.48	12.65	12.49	1.22	ppb
Beryllium	9-1	0.21	0.23	0.35	0.26	29.38	ppb
Bismuth	209-1				118		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.29	4.04	4.40	4.24	4.38	ppb
Cadmium	106-1	-9.86	-11.27	-11.00	-10.71		ppb
Cadmium	111-1	3.95	4.19	4.09	4.08	2.93	ppb
Calcium	43-1	772.91	770.14	774.00	772.35	0.26	ppb
Calcium	44-1	772.01	775.74	784.72	777.49	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.61	1.60	1.72	1.64	4.12	ppb
Cobalt	59-2	4.60	4.59	4.51	4.57	1.07	ppb
Copper	63-2	297.50	294.55	297.43	296.50	0.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				108		%
Indium	115-1				103		%
Indium	115-2				99		%
Iron	56-2	9594.49	9374.91	9502.32	9490.57	1.16	ppb
Iron	57-2	9487.75	9324.87	9438.46	9417.03	0.89	ppb
Iron	54-2	9567.33	9303.70	9525.41	9465.48	1.50	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:35:16 DataFile Name : 084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1235.52	1229.91	1232.83	1232.76	0.23	ppb
Lead	207-1	1152.75	1155.74	1154.60	1154.36	0.13	ppb
Lead	208-1	1181.46	1186.88	1191.13	1186.49	0.41	ppb
Lithium	6-1				109		%
Magnesium	24-2	1221.88	1206.58	1221.64	1216.70	0.72	ppb
Manganese	55-2	6371.84	6203.00	6311.33	6295.39	1.36	ppb
Molybdenum	94-1	34.16	34.75	35.17	34.69	1.46	ppb
Molybdenum	95-1	41.96	42.40	42.27	42.21	0.54	ppb
Molybdenum	96-1	41.25	41.60	41.53	41.46	0.44	ppb
Molybdenum	97-1	42.48	42.46	42.46	42.46	0.03	ppb
Molybdenum	98-1	41.85	42.01	42.06	41.97	0.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.69	1.64	1.76	1.70	3.48	ppb
Phosphorus	31-2	279.06	303.69	282.82	288.52	4.60	ppb
Potassium	39-2	223.49	220.69	226.36	223.52	1.27	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				95		%
Scandium	45-2				90		%
Selenium	82-1	0.02	0.07	-0.15	-0.02		ppb
Selenium	77-2	1.75	2.62	0.86	1.74	50.47	ppb
Selenium	78-2	0.27	0.01	-0.70	-0.14		ppb
Silicon	28-1	46.16	49.61	46.80	47.52	3.86	ppb
Silver	107-1	7.01	7.26	7.27	7.18	2.07	ppb
Silver	109-1	7.07	7.17	7.32	7.19	1.72	ppb
Sodium	23-2	34.02	33.40	33.39	33.60	1.08	ppb
Strontium	86-1	134.05	129.88	128.89	130.94	2.09	ppb
Strontium	88-1	130.18	131.88	130.43	130.83	0.70	ppb
Sulfur	34-1	-89.26	-63.56	-36.55	-63.12		ppb
Terbium	159-1				110		%
Terbium	159-2				106		%
Thallium	203-1	0.14	0.14	0.13	0.14	3.78	ppb
Thallium	205-1	0.13	0.14	0.13	0.13	2.29	ppb
Tin	118-1	0.16	0.14	0.14	0.15	6.14	ppb
Titanium	47-1	3.34	3.36	3.21	3.30	2.51	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:35:16 DataFile Name : 084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.31	0.31	0.30	0.31	2.46	ppb
Vanadium	51-2	5.13	5.10	5.30	5.17	2.08	ppb
Yttrium	89-1				103		%
Yttrium	89-2				97		%
Zinc	66-2	1647.95	1625.10	1647.91	1640.32	0.80	ppb
Zirconium	90-1	0.06	0.35	0.06	0.16	105.66	ppb
Zirconium	91-1	0.07	0.07	0.09	0.07	15.43	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:38:31 DataFile Name : 085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	747.51	759.82	756.08	754.47	0.84	ppb
Antimony	121-1	16.07	16.33	16.29	16.23	0.86	ppb
Arsenic	75-2	57.36	58.29	56.43	57.36	1.62	ppb
Barium	135-1	8.23	8.29	8.08	8.20	1.31	ppb
Barium	137-1	8.16	8.18	7.99	8.11	1.29	ppb
Beryllium	9-1	0.24	0.19	0.18	0.20	17.48	ppb
Bismuth	209-1				122		%
Bismuth	209-2				117		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.96	12.07	11.37	11.80	3.17	ppb
Cadmium	106-1	-1.30	0.52	-0.46	-0.41		ppb
Cadmium	111-1	11.66	11.38	11.76	11.60	1.69	ppb
Calcium	43-1	3391.72	3412.61	3417.00	3407.11	0.40	ppb
Calcium	44-1	3348.59	3324.88	3310.88	3328.12	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.16	1.11	1.10	1.12	3.01	ppb
Cobalt	59-2	1.51	1.56	1.53	1.54	1.83	ppb
Copper	63-2	326.77	331.45	331.84	330.02	0.85	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				108		%
Indium	115-2				108		%
Iron	56-2	27110.72	26978.54	26970.29	27019.85	0.29	ppb
Iron	57-2	26645.40	26703.00	26776.50	26708.30	0.25	ppb
Iron	54-2	27006.97	26915.19	26813.25	26911.80	0.36	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:38:31 DataFile Name : 085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7132.43	7016.33	7184.49	7111.08	1.21	ppb
Lead	207-1	6816.09	6858.91	6990.75	6888.58	1.32	ppb
Lead	208-1	6929.98	6873.65	7024.17	6942.60	1.10	ppb
Lithium	6-1				104		%
Magnesium	24-2	273.46	275.19	274.01	274.22	0.32	ppb
Manganese	55-2	8032.09	7980.59	7936.68	7983.12	0.60	ppb
Molybdenum	94-1	10.40	10.58	10.51	10.50	0.83	ppb
Molybdenum	95-1	12.88	12.83	12.57	12.76	1.29	ppb
Molybdenum	96-1	12.43	12.54	12.69	12.55	1.03	ppb
Molybdenum	97-1	12.32	12.80	12.68	12.60	2.01	ppb
Molybdenum	98-1	12.58	12.55	12.56	12.56	0.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.20	1.25	1.22	1.23	2.23	ppb
Phosphorus	31-2	201.79	188.45	204.21	198.15	4.28	ppb
Potassium	39-2	265.45	267.27	264.92	265.88	0.46	ppb
Rhodium	103-1				106		%
Rhodium	103-2				108		%
Scandium	45-1				103		%
Scandium	45-2				103		%
Selenium	82-1	2.02	1.86	2.23	2.04	9.12	ppb
Selenium	77-2	3.95	3.19	2.50	3.21	22.53	ppb
Selenium	78-2	3.43	1.93	3.19	2.85	28.38	ppb
Silicon	28-1	60.42	61.41	61.35	61.06	0.91	ppb
Silver	107-1	26.60	27.14	27.16	26.97	1.18	ppb
Silver	109-1	26.55	27.03	26.89	26.82	0.91	ppb
Sodium	23-2	48.04	47.73	47.42	47.73	0.65	ppb
Strontium	86-1	202.13	207.05	201.73	203.64	1.46	ppb
Strontium	88-1	207.01	204.60	205.18	205.60	0.61	ppb
Sulfur	34-1	13433.14	13180.52	13356.65	13323.44	0.97	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.22	0.24	0.22	0.23	4.59	ppb
Thallium	205-1	0.23	0.23	0.23	0.23	1.18	ppb
Tin	118-1	1.09	1.10	1.07	1.09	1.52	ppb
Titanium	47-1	13.32	13.04	13.08	13.15	1.13	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:38:31 DataFile Name : 085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.22	0.21	0.22	0.22	2.61	ppb
Vanadium	51-2	2.96	2.97	3.00	2.97	0.75	ppb
Yttrium	89-1				107		%
Yttrium	89-2				107		%
Zinc	66-2	3179.50	3205.87	3231.72	3205.69	0.81	ppb
Zirconium	90-1	0.17	0.16	0.18	0.17	4.23	ppb
Zirconium	91-1	0.21	0.21	0.17	0.19	9.89	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:41:34 DataFile Name : 086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	235.94	234.22	236.78	235.65	0.55	ppb
Antimony	121-1	97.58	99.06	97.80	98.15	0.82	ppb
Arsenic	75-2	578.84	571.24	566.95	572.34	1.05	ppb
Barium	135-1	44.89	45.45	44.68	45.00	0.88	ppb
Barium	137-1	44.33	45.51	44.99	44.94	1.31	ppb
Beryllium	9-1	0.01	0.05	0.03	0.03	69.32	ppb
Bismuth	209-1				170		%
Bismuth	209-2				165		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.31	2.05	2.27	2.21	6.27	ppb
Cadmium	106-1	-8.55	-5.35	-8.04	-7.32		ppb
Cadmium	111-1	1.78	1.86	1.80	1.82	2.03	ppb
Calcium	43-1	47.58	50.67	47.32	48.52	3.84	ppb
Calcium	44-1	43.25	49.39	45.14	45.93	6.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.32	0.33	0.34	0.33	2.69	ppb
Cobalt	59-2	0.35	0.40	0.40	0.39	8.37	ppb
Copper	63-2	1619.59	1621.56	1598.88	1613.34	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				112		%
Indium	115-2				111		%
Iron	56-2	29293.04	29081.46	29167.63	29180.71	0.36	ppb
Iron	57-2	28727.87	28850.63	28629.79	28736.10	0.39	ppb
Iron	54-2	29265.95	29135.01	29094.12	29165.03	0.31	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:41:34 DataFile Name : 086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7585.64	7799.52	7660.60	7681.92	1.41	ppb
Lead	207-1	7245.68	7283.40	7236.58	7255.22	0.34	ppb
Lead	208-1	7344.88	7471.64	7344.11	7386.88	0.99	ppb
Lithium	6-1				97		%
Magnesium	24-2	46.56	47.14	46.31	46.67	0.91	ppb
Manganese	55-2	251.21	251.88	250.29	251.13	0.32	ppb
Molybdenum	94-1	34.36	34.34	33.37	34.02	1.65	ppb
Molybdenum	95-1	41.67	41.46	40.80	41.31	1.10	ppb
Molybdenum	96-1	41.21	41.12	40.15	40.83	1.44	ppb
Molybdenum	97-1	42.29	41.86	41.01	41.72	1.57	ppb
Molybdenum	98-1	42.01	41.34	40.81	41.39	1.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.13	0.03	0.13	0.10	58.32	ppb
Phosphorus	31-2	125.66	136.65	137.63	133.31	4.99	ppb
Potassium	39-2	796.90	799.04	795.44	797.13	0.23	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				107		%
Scandium	45-2				108		%
Selenium	82-1	3.16	3.09	3.23	3.16	2.09	ppb
Selenium	77-2	3.85	3.21	3.64	3.57	9.25	ppb
Selenium	78-2	3.73	3.13	4.60	3.82	19.32	ppb
Silicon	28-1	9.81	11.62	11.58	11.00	9.36	ppb
Silver	107-1	32.21	33.22	32.41	32.61	1.64	ppb
Silver	109-1	32.32	32.79	32.63	32.58	0.73	ppb
Sodium	23-2	32.87	33.40	32.26	32.84	1.74	ppb
Strontium	86-1	219.42	226.35	217.07	220.94	2.18	ppb
Strontium	88-1	223.45	226.61	219.87	223.31	1.51	ppb
Sulfur	34-1	7017.76	7367.19	7407.24	7264.06	2.95	ppb
Terbium	159-1				113		%
Terbium	159-2				111		%
Thallium	203-1	0.51	0.56	0.53	0.53	5.20	ppb
Thallium	205-1	0.52	0.53	0.53	0.53	0.99	ppb
Tin	118-1	13.62	13.90	13.84	13.79	1.04	ppb
Titanium	47-1	1.28	1.32	1.33	1.31	2.11	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:41:34 DataFile Name : 086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.07	0.07	0.07	0.07	4.53	ppb
Vanadium	51-2	4.72	4.62	4.67	4.67	1.09	ppb
Yttrium	89-1				111		%
Yttrium	89-2				110		%
Zinc	66-2	605.99	604.09	606.51	605.53	0.21	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	18.77	ppb
Zirconium	91-1	0.14	0.15	0.13	0.14	6.14	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:44:45 DataFile Name : 087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	505.56	509.24	509.91	508.24	0.46	ppb
Antimony	121-1	47.04	46.24	47.26	46.85	1.15	ppb
Arsenic	75-2	287.38	291.16	290.29	289.61	0.68	ppb
Barium	135-1	23.80	24.03	24.50	24.11	1.48	ppb
Barium	137-1	23.96	23.68	23.69	23.78	0.67	ppb
Beryllium	9-1	0.04	0.05	0.06	0.05	23.62	ppb
Bismuth	209-1				147		%
Bismuth	209-2				144		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	19.50	18.41	20.88	19.60	6.33	ppb
Cadmium	106-1	12.44	8.81	12.35	11.20	18.51	ppb
Cadmium	111-1	20.20	19.98	20.08	20.09	0.57	ppb
Calcium	43-1	188.79	195.40	193.00	192.40	1.74	ppb
Calcium	44-1	193.42	193.92	196.34	194.56	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.66	0.70	0.70	0.69	3.33	ppb
Cobalt	59-2	2.28	2.38	2.34	2.33	2.06	ppb
Copper	63-2	1449.23	1461.95	1449.41	1453.53	0.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				112		%
Indium	115-2				110		%
Iron	56-2	31911.47	32222.05	31813.98	31982.50	0.67	ppb
Iron	57-2	31413.07	31753.77	31294.65	31487.17	0.76	ppb
Iron	54-2	32018.57	32247.80	31984.34	32083.57	0.45	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:44:45 DataFile Name : 087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8725.65	8665.35	8618.76	8669.92	0.62	ppb
Lead	207-1	8257.27	8340.49	8252.56	8283.44	0.60	ppb
Lead	208-1	8409.74	8458.21	8364.32	8410.76	0.56	ppb
Lithium	6-1				95		%
Magnesium	24-2	173.52	176.19	175.20	174.97	0.77	ppb
Manganese	55-2	756.65	766.09	758.65	760.46	0.65	ppb
Molybdenum	94-1	31.05	31.27	31.45	31.26	0.65	ppb
Molybdenum	95-1	37.48	38.25	37.66	37.80	1.06	ppb
Molybdenum	96-1	36.91	37.81	37.25	37.32	1.21	ppb
Molybdenum	97-1	37.77	38.59	38.16	38.17	1.09	ppb
Molybdenum	98-1	37.22	37.86	37.56	37.55	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.60	0.61	0.64	0.61	3.51	ppb
Phosphorus	31-2	137.85	147.00	135.82	140.22	4.25	ppb
Potassium	39-2	768.26	777.21	773.70	773.06	0.58	ppb
Rhodium	103-1				110		%
Rhodium	103-2				111		%
Scandium	45-1				107		%
Scandium	45-2				108		%
Selenium	82-1	2.91	3.21	2.57	2.90	11.06	ppb
Selenium	77-2	2.11	3.06	3.35	2.84	22.88	ppb
Selenium	78-2	3.18	1.98	2.89	2.68	23.41	ppb
Silicon	28-1	13.93	13.52	13.91	13.79	1.67	ppb
Silver	107-1	38.39	38.05	38.50	38.31	0.62	ppb
Silver	109-1	38.53	38.16	38.76	38.48	0.79	ppb
Sodium	23-2	36.34	36.51	36.12	36.33	0.53	ppb
Strontium	86-1	167.46	166.48	170.93	168.29	1.39	ppb
Strontium	88-1	170.17	171.90	173.54	171.87	0.98	ppb
Sulfur	34-1	11665.79	11712.59	11494.74	11624.37	0.99	ppb
Terbium	159-1				112		%
Terbium	159-2				111		%
Thallium	203-1	0.46	0.46	0.48	0.47	1.68	ppb
Thallium	205-1	0.45	0.46	0.46	0.46	1.04	ppb
Tin	118-1	14.15	14.03	14.22	14.13	0.66	ppb
Titanium	47-1	1.90	1.96	1.87	1.91	2.36	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:44:45 DataFile Name : 087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.13	0.13	0.13	0.13	1.92	ppb
Vanadium	51-2	4.58	4.78	4.71	4.69	2.15	ppb
Yttrium	89-1				111		%
Yttrium	89-2				111		%
Zinc	66-2	4251.51	4285.59	4293.15	4276.75	0.52	ppb
Zirconium	90-1	0.03	0.04	0.04	0.04	11.03	ppb
Zirconium	91-1	0.11	0.10	0.10	0.10	6.01	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:47:52 DataFile Name : 088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1460.10	1355.44	1352.70	1389.42	4.41	ppb
Antimony	121-1	16.49	16.17	16.07	16.24	1.35	ppb
Arsenic	75-2	51.54	48.20	47.91	49.22	4.10	ppb
Barium	135-1	59.53	59.01	57.75	58.76	1.55	ppb
Barium	137-1	59.42	58.61	58.61	58.88	0.79	ppb
Beryllium	9-1	0.09	0.09	0.10	0.10	5.90	ppb
Bismuth	209-1				135		%
Bismuth	209-2				131		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.74	1.67	1.81	1.74	4.03	ppb
Cadmium	106-1	-6.69	-6.21	-7.73	-6.87		ppb
Cadmium	111-1	1.53	1.64	1.56	1.58	3.73	ppb
Calcium	43-1	490.68	515.37	507.94	504.66	2.51	ppb
Calcium	44-1	497.30	503.92	501.93	501.05	0.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.90	4.52	4.49	4.64	4.94	ppb
Cobalt	59-2	2.09	1.92	1.90	1.97	5.29	ppb
Copper	63-2	837.69	787.75	783.12	802.85	3.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				108		%
Indium	115-1				111		%
Indium	115-2				107		%
Iron	56-2	34310.10	32170.62	31785.53	32755.42	4.15	ppb
Iron	57-2	33875.81	31467.00	31208.06	32183.62	4.57	ppb
Iron	54-2	34318.74	31797.36	31707.77	32607.96	4.55	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:47:52 DataFile Name : 088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7935.17	8006.40	7992.78	7978.12	0.47	ppb
Lead	207-1	7509.95	7524.51	7517.37	7517.28	0.10	ppb
Lead	208-1	7635.17	7700.14	7700.88	7678.73	0.49	ppb
Lithium	6-1				97		%
Magnesium	24-2	791.47	737.33	732.83	753.88	4.33	ppb
Manganese	55-2	448.37	424.05	407.17	426.53	4.86	ppb
Molybdenum	94-1	16.37	16.32	16.17	16.29	0.65	ppb
Molybdenum	95-1	19.49	19.45	19.15	19.36	0.96	ppb
Molybdenum	96-1	19.38	19.53	19.33	19.41	0.53	ppb
Molybdenum	97-1	19.56	19.54	19.24	19.45	0.92	ppb
Molybdenum	98-1	19.42	19.51	19.08	19.34	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.17	3.10	3.23	3.16	1.97	ppb
Phosphorus	31-2	473.17	454.78	457.91	461.95	2.13	ppb
Potassium	39-2	298.98	267.14	268.70	278.27	6.45	ppb
Rhodium	103-1				110		%
Rhodium	103-2				109		%
Scandium	45-1				107		%
Scandium	45-2				106		%
Selenium	82-1	2.42	2.02	2.69	2.38	14.11	ppb
Selenium	77-2	3.58	5.22	3.05	3.95	28.74	ppb
Selenium	78-2	3.83	2.64	2.20	2.89	29.03	ppb
Silicon	28-1	19.10	19.46	19.44	19.33	1.05	ppb
Silver	107-1	31.99	31.77	31.25	31.67	1.20	ppb
Silver	109-1	31.75	31.45	31.04	31.42	1.14	ppb
Sodium	23-2	53.87	46.89	47.58	49.45	7.78	ppb
Strontium	86-1	199.11	197.39	192.40	196.30	1.77	ppb
Strontium	88-1	199.96	199.54	194.79	198.09	1.45	ppb
Sulfur	34-1	3949.66	3975.62	3991.97	3972.42	0.54	ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	0.09	0.09	0.09	0.09	1.48	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	1.66	ppb
Tin	118-1	11.53	11.52	11.27	11.44	1.30	ppb
Titanium	47-1	23.87	24.67	23.97	24.17	1.81	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:47:52 DataFile Name : 088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.19	0.19	0.19	0.19	0.71	ppb
Vanadium	51-2	6.24	5.89	5.83	5.99	3.76	ppb
Yttrium	89-1				111		%
Yttrium	89-2				108		%
Zinc	66-2	434.73	407.42	404.62	415.59	4.00	ppb
Zirconium	90-1	0.10	0.10	0.09	0.10	6.64	ppb
Zirconium	91-1	0.14	0.11	0.12	0.12	13.32	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:51:03 DataFile Name : 089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	762.85	756.37	750.36	756.53	0.83	ppb
Antimony	121-1	131.51	129.69	130.17	130.45	0.72	ppb
Arsenic	75-2	620.97	624.16	624.91	623.35	0.34	ppb
Barium	135-1	50.62	49.55	49.89	50.02	1.09	ppb
Barium	137-1	50.28	49.72	49.78	49.92	0.62	ppb
Beryllium	9-1	0.08	0.09	0.07	0.08	12.42	ppb
Bismuth	209-1				215		%
Bismuth	209-2				212		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.66	6.09	6.71	6.49	5.36	ppb
Cadmium	106-1	-2.01	-2.49	-4.20	-2.90		ppb
Cadmium	111-1	6.18	6.28	6.25	6.24	0.89	ppb
Calcium	43-1	472.84	464.17	473.82	470.28	1.13	ppb
Calcium	44-1	449.34	455.07	450.87	451.76	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.02	2.03	1.92	1.99	2.88	ppb
Cobalt	59-2	0.96	1.03	0.99	0.99	3.53	ppb
Copper	63-2	3021.47	3014.46	2981.28	3005.74	0.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				114		%
Indium	115-2				112		%
Iron	56-2	41851.93	42025.79	41527.17	41801.63	0.61	ppb
Iron	57-2	40619.11	41042.58	40844.49	40835.39	0.52	ppb
Iron	54-2	41788.18	42159.10	41512.06	41819.78	0.78	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:51:03 DataFile Name : 089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	12854.84	12662.20	12637.95	12718.33	0.93	ppb
Lead	207-1	12291.11	12240.79	12112.53	12214.81	0.75	ppb
Lead	208-1	12524.32	12285.64	12380.08	12396.68	0.97	ppb
Lithium	6-1				96		%
Magnesium	24-2	238.57	236.04	235.55	236.72	0.68	ppb
Manganese	55-2	551.62	546.54	546.79	548.32	0.52	ppb
Molybdenum	94-1	91.86	91.62	92.87	92.12	0.72	ppb
Molybdenum	95-1	111.24	110.32	113.34	111.63	1.39	ppb
Molybdenum	96-1	109.11	109.37	110.18	109.55	0.51	ppb
Molybdenum	97-1	111.99	112.23	113.33	112.52	0.64	ppb
Molybdenum	98-1	110.49	110.35	112.23	111.02	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.69	0.61	0.62	0.64	6.76	ppb
Phosphorus	31-2	217.73	238.16	216.25	224.05	5.46	ppb
Potassium	39-2	489.01	487.57	483.60	486.73	0.58	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				107		%
Scandium	45-2				109		%
Selenium	82-1	5.56	6.09	5.85	5.83	4.62	ppb
Selenium	77-2	6.50	4.85	8.57	6.64	28.08	ppb
Selenium	78-2	6.59	7.65	6.79	7.01	8.00	ppb
Silicon	28-1	18.17	18.69	18.84	18.57	1.91	ppb
Silver	107-1	30.99	30.84	30.52	30.79	0.78	ppb
Silver	109-1	30.68	30.57	30.70	30.65	0.23	ppb
Sodium	23-2	47.32	46.50	46.08	46.63	1.35	ppb
Strontium	86-1	1487.14	1481.45	1509.57	1492.72	1.00	ppb
Strontium	88-1	1543.98	1527.96	1544.64	1538.86	0.61	ppb
Sulfur	34-1	8502.98	8620.50	8649.66	8591.05	0.90	ppb
Terbium	159-1				113		%
Terbium	159-2				110		%
Thallium	203-1	0.34	0.33	0.33	0.33	1.01	ppb
Thallium	205-1	0.33	0.33	0.32	0.33	2.22	ppb
Tin	118-1	17.33	17.08	17.16	17.19	0.75	ppb
Titanium	47-1	7.99	8.10	8.17	8.09	1.14	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:51:03 DataFile Name : 089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.26	0.25	0.26	0.26	2.64	ppb
Vanadium	51-2	6.60	6.55	6.56	6.57	0.39	ppb
Yttrium	89-1				112		%
Yttrium	89-2				111		%
Zinc	66-2	1594.27	1581.96	1599.55	1591.93	0.57	ppb
Zirconium	90-1	0.15	0.15	0.14	0.15	4.95	ppb
Zirconium	91-1	0.30	0.27	0.27	0.28	4.80	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14DLX5 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:54:12 DataFile Name : 090SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1809.51	1789.19	1820.59	1806.43	0.88	ppb
Antimony	121-1	2.01	2.06	2.13	2.07	2.98	ppb
Arsenic	75-2	14.58	15.26	14.67	14.83	2.50	ppb
Barium	135-1	29.91	31.15	31.39	30.81	2.57	ppb
Barium	137-1	30.21	31.32	31.51	31.01	2.27	ppb
Beryllium	9-1	0.28	0.28	0.32	0.29	8.68	ppb
Bismuth	209-1				114		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.16	6.38	6.46	6.33	2.41	ppb
Cadmium	106-1	-4.25	-2.24	-3.47	-3.32		ppb
Cadmium	111-1	6.59	6.86	7.06	6.83	3.47	ppb
Calcium	43-1	4171.65	4428.58	4413.42	4337.88	3.32	ppb
Calcium	44-1	4056.05	4271.17	4248.25	4191.82	2.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.06	3.14	2.96	3.05	3.03	ppb
Cobalt	59-2	3.21	3.18	3.16	3.18	0.94	ppb
Copper	63-2	113.90	112.97	114.05	113.64	0.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				111		%
Indium	115-2				109		%
Iron	56-2	12223.69	12239.91	12246.91	12236.84	0.10	ppb
Iron	57-2	12130.25	11998.87	12193.36	12107.49	0.82	ppb
Iron	54-2	12256.83	12119.68	12306.47	12227.66	0.79	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14DLX5 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:54:12 DataFile Name : 090SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	896.68	943.18	948.13	929.33	3.05	ppb
Lead	207-1	854.51	906.48	914.81	891.93	3.66	ppb
Lead	208-1	871.39	919.45	920.80	903.88	3.11	ppb
Lithium	6-1				99		%
Magnesium	24-2	993.25	982.30	1001.18	992.24	0.96	ppb
Manganese	55-2	5640.86	5651.60	5656.58	5649.68	0.14	ppb
Molybdenum	94-1	11.88	12.58	12.53	12.33	3.17	ppb
Molybdenum	95-1	14.14	14.98	14.80	14.64	3.05	ppb
Molybdenum	96-1	13.85	14.62	14.55	14.34	3.00	ppb
Molybdenum	97-1	13.86	14.88	14.61	14.45	3.65	ppb
Molybdenum	98-1	13.95	14.87	14.74	14.52	3.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.59	3.68	3.66	3.65	1.34	ppb
Phosphorus	31-2	285.91	283.61	266.63	278.71	3.78	ppb
Potassium	39-2	367.78	365.92	368.85	367.52	0.40	ppb
Rhodium	103-1				110		%
Rhodium	103-2				111		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	0.19	0.34	0.34	0.29	30.03	ppb
Selenium	77-2	0.76	1.70	1.54	1.33	37.81	ppb
Selenium	78-2	0.85	0.50	0.20	0.52	63.50	ppb
Silicon	28-1	29.72	32.02	32.31	31.35	4.52	ppb
Silver	107-1	5.48	5.79	5.75	5.67	2.94	ppb
Silver	109-1	5.34	5.66	5.65	5.55	3.27	ppb
Sodium	23-2	22.68	21.44	22.80	22.30	3.38	ppb
Strontium	86-1	194.06	209.54	205.05	202.88	3.92	ppb
Strontium	88-1	195.56	207.82	208.95	204.11	3.64	ppb
Sulfur	34-1	6480.51	6997.62	7049.98	6842.70	4.60	ppb
Terbium	159-1				114		%
Terbium	159-2				110		%
Thallium	203-1	0.08	0.10	0.09	0.09	7.38	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	1.57	ppb
Tin	118-1	0.18	0.20	0.20	0.20	6.07	ppb
Titanium	47-1	12.44	13.27	13.14	12.95	3.45	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14DLX5 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:54:12 DataFile Name : 090SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.25	0.25	0.27	0.25	4.79	ppb
Vanadium	51-2	4.29	4.17	4.35	4.27	2.12	ppb
Yttrium	89-1				112		%
Yttrium	89-2				110		%
Zinc	66-2	1273.68	1260.23	1275.75	1269.88	0.66	ppb
Zirconium	90-1	0.18	0.19	0.19	0.19	5.30	ppb
Zirconium	91-1	0.21	0.19	0.20	0.20	5.22	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15DLX5 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:57:22 DataFile Name : 091SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3969.73	3942.09	3952.92	3954.91	0.35	ppb
Antimony	121-1	3.71	3.65	3.60	3.66	1.48	ppb
Arsenic	75-2	11.46	11.74	11.63	11.61	1.21	ppb
Barium	135-1	35.71	35.37	35.21	35.43	0.71	ppb
Barium	137-1	35.68	35.61	34.57	35.29	1.77	ppb
Beryllium	9-1	1.84	1.80	1.86	1.83	1.57	ppb
Bismuth	209-1				116		%
Bismuth	209-2				114		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	14.52	15.00	14.18	14.57	2.83	ppb
Cadmium	106-1	5.14	4.58	5.87	5.19	12.42	ppb
Cadmium	111-1	15.43	15.21	15.14	15.26	1.00	ppb
Calcium	43-1	3348.11	3357.57	3408.50	3371.39	0.96	ppb
Calcium	44-1	3291.36	3273.26	3291.66	3285.43	0.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.47	6.46	6.52	6.48	0.55	ppb
Cobalt	59-2	9.41	9.29	9.41	9.37	0.75	ppb
Copper	63-2	376.73	370.17	375.80	374.24	0.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				112		%
Indium	115-1				111		%
Indium	115-2				108		%
Iron	56-2	19391.09	19355.21	19336.78	19361.03	0.14	ppb
Iron	57-2	19160.83	18722.84	19147.14	19010.27	1.31	ppb
Iron	54-2	19531.42	19360.12	19326.68	19406.07	0.57	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15DLX5 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:57:22 DataFile Name : 091SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1998.21	1998.92	1971.57	1989.57	0.78	ppb
Lead	207-1	1947.21	1919.70	1908.90	1925.27	1.03	ppb
Lead	208-1	1951.85	1939.57	1918.36	1936.59	0.87	ppb
Lithium	6-1				100		%
Magnesium	24-2	2824.65	2809.91	2794.82	2809.80	0.53	ppb
Manganese	55-2	4022.37	4024.26	4015.44	4020.69	0.12	ppb
Molybdenum	94-1	4.00	4.00	4.04	4.02	0.51	ppb
Molybdenum	95-1	4.11	4.19	4.11	4.14	1.11	ppb
Molybdenum	96-1	4.29	4.21	4.20	4.24	1.18	ppb
Molybdenum	97-1	4.05	4.15	4.09	4.10	1.29	ppb
Molybdenum	98-1	4.02	4.12	4.03	4.06	1.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.46	6.65	6.95	6.69	3.67	ppb
Phosphorus	31-2	462.27	468.99	456.59	462.62	1.34	ppb
Potassium	39-2	413.01	405.87	411.17	410.01	0.90	ppb
Rhodium	103-1				108		%
Rhodium	103-2				110		%
Scandium	45-1				107		%
Scandium	45-2				106		%
Selenium	82-1	-0.10	0.79	0.92	0.54	104.20	ppb
Selenium	77-2	2.45	2.93	3.83	3.07	22.87	ppb
Selenium	78-2	1.79	1.45	0.94	1.39	30.75	ppb
Silicon	28-1	85.38	85.64	85.64	85.55	0.17	ppb
Silver	107-1	5.57	5.47	5.47	5.50	1.06	ppb
Silver	109-1	5.54	5.51	5.50	5.52	0.37	ppb
Sodium	23-2	42.30	41.25	42.81	42.12	1.89	ppb
Strontium	86-1	621.93	622.44	627.11	623.83	0.46	ppb
Strontium	88-1	630.52	628.27	632.61	630.47	0.34	ppb
Sulfur	34-1	3569.43	3456.27	3493.10	3506.27	1.65	ppb
Terbium	159-1				113		%
Terbium	159-2				110		%
Thallium	203-1	0.09	0.08	0.10	0.09	10.71	ppb
Thallium	205-1	0.09	0.09	0.08	0.09	3.89	ppb
Tin	118-1	0.41	0.39	0.41	0.40	2.41	ppb
Titanium	47-1	23.06	23.64	23.27	23.32	1.26	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15DLX5 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:57:22 DataFile Name : 091SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.50	0.51	0.49	0.50	1.74	ppb
Vanadium	51-2	8.34	7.94	8.00	8.09	2.65	ppb
Yttrium	89-1				111		%
Yttrium	89-2				110		%
Zinc	66-2	4370.91	4397.69	4393.33	4387.31	0.33	ppb
Zirconium	90-1	0.32	0.32	0.39	0.34	11.52	ppb
Zirconium	91-1	0.34	0.32	0.32	0.32	3.66	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL3X8 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 8
Date & Time Acquired : 2025-01-06 19:00:25 DataFile Name : 092SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1301.96	1313.12	1307.51	1307.53	0.43	ppb
Antimony	121-1	6.64	6.62	6.75	6.67	1.10	ppb
Arsenic	75-2	11.96	12.05	11.72	11.91	1.41	ppb
Barium	135-1	25.88	25.78	26.18	25.94	0.80	ppb
Barium	137-1	25.65	25.80	26.18	25.88	1.05	ppb
Beryllium	9-1	0.11	0.15	0.13	0.13	13.75	ppb
Bismuth	209-1				127		%
Bismuth	209-2				125		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.47	6.25	6.13	6.28	2.72	ppb
Cadmium	106-1	-4.62	-5.21	-4.20	-4.67		ppb
Cadmium	111-1	6.48	6.43	6.44	6.45	0.42	ppb
Calcium	43-1	546.79	545.23	553.17	548.40	0.77	ppb
Calcium	44-1	548.62	555.99	546.51	550.37	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.79	0.78	0.87	0.81	6.17	ppb
Cobalt	59-2	3.32	3.37	3.33	3.34	0.68	ppb
Copper	63-2	1246.50	1248.07	1231.37	1241.98	0.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				110		%
Indium	115-2				107		%
Iron	56-2	10165.22	10273.10	10223.21	10220.51	0.53	ppb
Iron	57-2	10075.66	10096.88	10107.13	10093.22	0.16	ppb
Iron	54-2	10210.59	10233.44	10231.26	10225.10	0.12	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL3X8 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 8
Date & Time Acquired : 2025-01-06 19:00:25 DataFile Name : 092SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2953.60	2976.93	2956.81	2962.45	0.43	ppb
Lead	207-1	2798.11	2810.77	2779.09	2795.99	0.57	ppb
Lead	208-1	2848.34	2855.45	2832.99	2845.59	0.40	ppb
Lithium	6-1				101		%
Magnesium	24-2	715.39	711.40	708.75	711.85	0.47	ppb
Manganese	55-2	3074.43	3111.21	3085.45	3090.36	0.61	ppb
Molybdenum	94-1	10.52	10.71	10.63	10.62	0.91	ppb
Molybdenum	95-1	12.56	13.02	12.75	12.78	1.80	ppb
Molybdenum	96-1	12.42	12.72	12.53	12.56	1.21	ppb
Molybdenum	97-1	12.80	12.83	12.56	12.73	1.15	ppb
Molybdenum	98-1	12.50	12.78	12.73	12.67	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.21	1.13	1.20	1.18	3.70	ppb
Phosphorus	31-2	171.37	152.64	171.76	165.26	6.61	ppb
Potassium	39-2	153.64	155.81	156.88	155.44	1.06	ppb
Rhodium	103-1				108		%
Rhodium	103-2				110		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	1.46	1.60	0.90	1.32	27.92	ppb
Selenium	77-2	2.46	1.08	2.49	2.01	40.07	ppb
Selenium	78-2	1.98	1.01	0.80	1.26	50.06	ppb
Silicon	28-1	33.53	34.66	33.41	33.87	2.03	ppb
Silver	107-1	22.46	22.75	23.31	22.84	1.90	ppb
Silver	109-1	22.54	22.50	22.99	22.68	1.20	ppb
Sodium	23-2	18.02	18.30	17.99	18.10	0.94	ppb
Strontium	86-1	123.42	123.42	123.68	123.51	0.12	ppb
Strontium	88-1	125.44	127.70	126.79	126.65	0.90	ppb
Sulfur	34-1	1475.42	1599.27	1449.55	1508.08	5.31	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.05	0.05	0.05	0.05	3.34	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	0.80	ppb
Tin	118-1	18.04	18.27	18.21	18.17	0.66	ppb
Titanium	47-1	8.15	8.43	8.17	8.25	1.89	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL3X8 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 8
Date & Time Acquired : 2025-01-06 19:00:25 DataFile Name : 092SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.21	0.20	0.20	0.20	2.35	ppb
Vanadium	51-2	3.49	3.44	3.50	3.48	0.95	ppb
Yttrium	89-1				111		%
Yttrium	89-2				109		%
Zinc	66-2	1111.25	1113.47	1118.72	1114.48	0.34	ppb
Zirconium	90-1	0.08	0.09	0.10	0.09	7.77	ppb
Zirconium	91-1	0.12	0.09	0.12	0.11	13.79	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:03:35 DataFile Name : 093SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	381.49	384.76	386.02	384.09	0.61	ppb
Antimony	121-1	8.15	8.17	8.18	8.17	0.19	ppb
Arsenic	75-2	29.58	29.36	29.66	29.53	0.52	ppb
Barium	135-1	4.01	4.01	4.10	4.04	1.27	ppb
Barium	137-1	4.08	4.12	4.09	4.10	0.53	ppb
Beryllium	9-1	0.12	0.13	0.12	0.12	4.97	ppb
Bismuth	209-1				116		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.90	6.09	5.73	5.57	10.99	ppb
Cadmium	106-1	-6.41	-4.48	-4.51	-5.13		ppb
Cadmium	111-1	5.97	5.99	5.82	5.93	1.61	ppb
Calcium	43-1	1584.84	1602.30	1586.71	1591.28	0.60	ppb
Calcium	44-1	1580.84	1591.19	1583.58	1585.20	0.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.52	0.51	0.55	0.52	3.97	ppb
Cobalt	59-2	0.74	0.74	0.73	0.74	0.86	ppb
Copper	63-2	161.21	161.21	161.21	161.21	0.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				110		%
Indium	115-1				109		%
Indium	115-2				109		%
Iron	56-2	13486.40	13493.60	13398.57	13459.52	0.39	ppb
Iron	57-2	13405.00	13245.13	13142.23	13264.12	1.00	ppb
Iron	54-2	13412.92	13503.00	13481.01	13465.64	0.35	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:03:35 DataFile Name : 093SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	3648.59	3696.85	3694.68	3680.04	0.74	ppb
Lead	207-1	3540.07	3582.98	3548.76	3557.27	0.64	ppb
Lead	208-1	3561.55	3587.75	3595.30	3581.53	0.49	ppb
Lithium	6-1				100		%
Magnesium	24-2	134.80	136.59	135.62	135.67	0.66	ppb
Manganese	55-2	4000.41	3967.10	3956.09	3974.53	0.58	ppb
Molybdenum	94-1	5.33	5.30	5.37	5.33	0.66	ppb
Molybdenum	95-1	6.29	6.35	6.41	6.35	0.95	ppb
Molybdenum	96-1	6.30	6.34	6.27	6.31	0.55	ppb
Molybdenum	97-1	6.28	6.32	6.26	6.29	0.44	ppb
Molybdenum	98-1	6.28	6.20	6.33	6.27	1.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.51	0.36	0.45	0.44	16.64	ppb
Phosphorus	31-2	91.74	83.54	85.24	86.84	4.99	ppb
Potassium	39-2	133.09	134.21	135.50	134.27	0.90	ppb
Rhodium	103-1				107		%
Rhodium	103-2				110		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	1.16	1.19	1.03	1.12	7.75	ppb
Selenium	77-2	1.23	1.09	0.63	0.99	32.07	ppb
Selenium	78-2	0.72	0.25	2.42	1.13	101.26	ppb
Silicon	28-1	29.58	29.93	29.35	29.62	0.98	ppb
Silver	107-1	13.67	13.99	14.01	13.89	1.37	ppb
Silver	109-1	13.66	13.69	13.95	13.77	1.15	ppb
Sodium	23-2	23.08	23.28	23.52	23.29	0.94	ppb
Strontium	86-1	97.87	100.79	100.80	99.82	1.69	ppb
Strontium	88-1	100.75	102.73	102.37	101.95	1.04	ppb
Sulfur	34-1	6131.62	6256.35	6240.27	6209.41	1.09	ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.11	0.12	0.11	0.11	5.91	ppb
Thallium	205-1	0.11	0.12	0.12	0.11	3.98	ppb
Tin	118-1	0.56	0.55	0.58	0.56	2.83	ppb
Titanium	47-1	6.65	6.50	6.62	6.59	1.19	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:03:35 DataFile Name : 093SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.11	0.11	0.11	0.11	2.77	ppb
Vanadium	51-2	1.44	1.56	1.48	1.49	4.00	ppb
Yttrium	89-1				109		%
Yttrium	89-2				108		%
Zinc	66-2	1540.46	1542.24	1542.41	1541.70	0.07	ppb
Zirconium	90-1	0.08	0.08	0.08	0.08	2.84	ppb
Zirconium	91-1	0.09	0.09	0.10	0.09	8.40	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:09:33 DataFile Name : 094SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	117.04	116.37	117.33	116.91	0.42	ppb
Antimony	121-1	47.56	52.37	48.50	49.47	5.15	ppb
Arsenic	75-2	285.91	284.72	286.31	285.65	0.29	ppb
Barium	135-1	21.56	24.23	22.44	22.74	5.98	ppb
Barium	137-1	21.85	24.15	22.55	22.85	5.17	ppb
Beryllium	9-1	-0.01	0.01	0.04	0.01	262.09	ppb
Bismuth	209-1				136		%
Bismuth	209-2				137		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.12	1.40	0.97	1.17	18.83	ppb
Cadmium	106-1	-11.78	-12.05	-9.08	-10.97		ppb
Cadmium	111-1	0.81	0.91	0.87	0.86	5.70	ppb
Calcium	43-1	21.58	26.02	21.03	22.88	11.95	ppb
Calcium	44-1	20.77	24.64	23.61	23.01	8.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.19	0.16	0.17	0.17	9.04	ppb
Cobalt	59-2	0.19	0.19	0.20	0.20	4.05	ppb
Copper	63-2	808.94	808.49	801.31	806.25	0.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				109		%
Indium	115-1				107		%
Indium	115-2				108		%
Iron	56-2	14423.93	14413.98	14541.28	14459.73	0.49	ppb
Iron	57-2	14273.92	14233.02	14268.99	14258.65	0.16	ppb
Iron	54-2	14479.02	14506.27	14661.85	14549.05	0.68	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:09:33 DataFile Name : 094SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4609.83	4918.91	4583.57	4704.10	3.96	ppb
Lead	207-1	4336.65	4666.90	4369.55	4457.70	4.08	ppb
Lead	208-1	4433.57	4744.56	4438.15	4538.76	3.93	ppb
Lithium	6-1				96		%
Magnesium	24-2	22.79	22.69	22.90	22.79	0.45	ppb
Manganese	55-2	124.60	123.85	124.50	124.32	0.33	ppb
Molybdenum	94-1	16.92	18.38	17.20	17.50	4.44	ppb
Molybdenum	95-1	20.00	22.39	20.52	20.97	6.00	ppb
Molybdenum	96-1	19.93	22.01	20.21	20.72	5.45	ppb
Molybdenum	97-1	20.23	22.51	20.87	21.20	5.54	ppb
Molybdenum	98-1	20.27	22.27	20.43	20.99	5.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.06	0.05	0.04	92.20	ppb
Phosphorus	31-2	47.80	58.56	58.18	54.85	11.14	ppb
Potassium	39-2	392.34	394.81	397.48	394.88	0.65	ppb
Rhodium	103-1				105		%
Rhodium	103-2				110		%
Scandium	45-1				103		%
Scandium	45-2				106		%
Selenium	82-1	1.72	1.78	1.50	1.67	8.77	ppb
Selenium	77-2	1.55	0.93	1.25	1.24	25.05	ppb
Selenium	78-2	1.99	1.47	2.01	1.82	16.91	ppb
Silicon	28-1	3.69	6.33	3.84	4.62	32.16	ppb
Silver	107-1	15.80	17.54	16.30	16.55	5.41	ppb
Silver	109-1	15.56	17.49	16.14	16.40	6.05	ppb
Sodium	23-2	14.54	15.18	15.52	15.08	3.31	ppb
Strontium	86-1	109.29	120.62	113.22	114.38	5.03	ppb
Strontium	88-1	107.91	119.19	110.23	112.44	5.29	ppb
Sulfur	34-1	3264.92	3965.07	3386.70	3538.89	10.57	ppb
Terbium	159-1				108		%
Terbium	159-2				109		%
Thallium	203-1	0.30	0.34	0.30	0.31	6.65	ppb
Thallium	205-1	0.30	0.33	0.30	0.31	5.99	ppb
Tin	118-1	6.77	7.34	6.83	6.98	4.46	ppb
Titanium	47-1	0.69	0.77	0.62	0.69	11.06	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:09:33 DataFile Name : 094SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.04	0.04	0.04	0.04	2.68	ppb
Vanadium	51-2	2.30	2.28	2.26	2.28	0.89	ppb
Yttrium	89-1				106		%
Yttrium	89-2				109		%
Zinc	66-2	301.53	300.35	300.35	300.74	0.23	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	63.74	ppb
Zirconium	91-1	0.07	0.07	0.06	0.07	6.65	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:12:41 DataFile Name : 095SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	246.67	242.46	244.44	244.52	0.86	ppb
Antimony	121-1	23.13	22.43	22.28	22.61	1.99	ppb
Arsenic	75-2	141.08	138.26	140.78	140.04	1.10	ppb
Barium	135-1	12.02	11.46	11.13	11.54	3.93	ppb
Barium	137-1	11.81	11.54	11.39	11.58	1.82	ppb
Beryllium	9-1	0.03	0.03	0.02	0.03	23.35	ppb
Bismuth	209-1				126		%
Bismuth	209-2				126		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.57	9.25	9.45	9.42	1.73	ppb
Cadmium	106-1	0.00	-2.29	0.45	-0.61		ppb
Cadmium	111-1	9.96	9.61	9.47	9.68	2.62	ppb
Calcium	43-1	91.10	94.73	81.96	89.26	7.37	ppb
Calcium	44-1	91.32	88.72	85.08	88.37	3.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.35	0.36	0.34	4.67	ppb
Cobalt	59-2	1.09	1.10	1.10	1.09	0.70	ppb
Copper	63-2	691.69	699.34	690.90	693.98	0.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				110		%
Indium	115-1				108		%
Indium	115-2				109		%
Iron	56-2	15404.58	15291.13	15335.86	15343.86	0.37	ppb
Iron	57-2	15293.42	14975.57	15132.56	15133.85	1.05	ppb
Iron	54-2	15514.44	15292.02	15430.82	15412.43	0.73	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:12:41 DataFile Name : 095SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4906.55	4860.68	4797.65	4854.96	1.13	ppb
Lead	207-1	4673.20	4592.42	4509.02	4591.55	1.79	ppb
Lead	208-1	4740.23	4670.26	4614.42	4674.97	1.35	ppb
Lithium	6-1				96		%
Magnesium	24-2	82.96	82.80	84.14	83.30	0.88	ppb
Manganese	55-2	366.15	358.93	366.58	363.89	1.18	ppb
Molybdenum	94-1	15.46	15.27	15.18	15.30	0.92	ppb
Molybdenum	95-1	18.77	18.53	18.05	18.45	1.99	ppb
Molybdenum	96-1	18.68	18.16	17.94	18.26	2.10	ppb
Molybdenum	97-1	19.24	18.56	18.37	18.72	2.45	ppb
Molybdenum	98-1	18.82	18.11	18.13	18.35	2.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.28	0.22	0.26	12.13	ppb
Phosphorus	31-2	48.34	47.86	50.91	49.04	3.34	ppb
Potassium	39-2	362.41	365.41	369.37	365.73	0.95	ppb
Rhodium	103-1				107		%
Rhodium	103-2				111		%
Scandium	45-1				105		%
Scandium	45-2				108		%
Selenium	82-1	1.38	1.32	1.34	1.35	2.39	ppb
Selenium	77-2	1.69	1.53	1.38	1.53	9.99	ppb
Selenium	78-2	1.03	2.78	1.31	1.71	54.96	ppb
Silicon	28-1	5.85	5.25	4.82	5.31	9.77	ppb
Silver	107-1	18.77	18.49	18.20	18.49	1.55	ppb
Silver	109-1	19.00	18.54	17.98	18.51	2.76	ppb
Sodium	23-2	14.67	14.75	14.27	14.56	1.78	ppb
Strontium	86-1	84.33	84.28	79.16	82.59	3.60	ppb
Strontium	88-1	84.57	82.82	82.44	83.27	1.37	ppb
Sulfur	34-1	5808.56	5371.14	5294.21	5491.30	5.05	ppb
Terbium	159-1				110		%
Terbium	159-2				111		%
Thallium	203-1	0.27	0.25	0.25	0.26	4.78	ppb
Thallium	205-1	0.27	0.26	0.25	0.26	2.52	ppb
Tin	118-1	6.89	6.85	6.69	6.81	1.53	ppb
Titanium	47-1	0.97	0.96	0.76	0.90	12.86	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:12:41 DataFile Name : 095SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.07	0.07	0.07	0.07	1.80	ppb
Vanadium	51-2	2.28	2.21	2.21	2.24	1.82	ppb
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	2074.63	2040.12	2029.55	2048.10	1.15	ppb
Zirconium	90-1	0.00	0.02	0.02	0.01	67.05	ppb
Zirconium	91-1	0.05	0.05	0.05	0.05	2.93	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:15:49 DataFile Name : 096SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	681.03	682.11	678.30	680.48	0.29	ppb
Antimony	121-1	7.97	8.05	8.14	8.05	1.05	ppb
Arsenic	75-2	24.34	24.17	23.56	24.02	1.71	ppb
Barium	135-1	29.48	29.18	29.49	29.38	0.59	ppb
Barium	137-1	29.33	29.22	29.43	29.33	0.37	ppb
Beryllium	9-1	0.03	0.05	0.05	0.05	25.42	ppb
Bismuth	209-1				122		%
Bismuth	209-2				120		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.91	1.12	0.86	0.96	13.98	ppb
Cadmium	106-1	-8.88	-9.37	-7.30	-8.51		ppb
Cadmium	111-1	0.61	0.73	0.77	0.70	11.56	ppb
Calcium	43-1	244.02	256.73	258.85	253.20	3.17	ppb
Calcium	44-1	245.08	255.63	256.23	252.31	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.20	2.28	2.35	2.28	3.40	ppb
Cobalt	59-2	1.00	0.99	0.97	0.98	1.66	ppb
Copper	63-2	389.45	390.87	386.77	389.03	0.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				111		%
Indium	115-1				111		%
Indium	115-2				110		%
Iron	56-2	15970.51	16098.10	15968.14	16012.25	0.46	ppb
Iron	57-2	15821.11	15721.62	15685.29	15742.67	0.45	ppb
Iron	54-2	15921.54	15997.01	16089.42	16002.66	0.53	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:15:49 DataFile Name : 096SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4304.35	4338.63	4340.97	4327.99	0.47	ppb
Lead	207-1	4067.50	4130.75	4117.73	4105.33	0.81	ppb
Lead	208-1	4132.71	4220.39	4172.02	4175.04	1.05	ppb
Lithium	6-1				96		%
Magnesium	24-2	368.13	367.96	370.01	368.70	0.31	ppb
Manganese	55-2	202.70	203.37	204.92	203.66	0.56	ppb
Molybdenum	94-1	8.21	7.95	8.16	8.11	1.73	ppb
Molybdenum	95-1	9.65	9.71	9.64	9.66	0.37	ppb
Molybdenum	96-1	9.50	9.63	9.81	9.65	1.62	ppb
Molybdenum	97-1	9.62	9.62	9.88	9.71	1.56	ppb
Molybdenum	98-1	9.55	9.61	9.74	9.63	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.45	1.61	1.51	1.52	5.13	ppb
Phosphorus	31-2	215.63	209.05	214.87	213.18	1.69	ppb
Potassium	39-2	133.02	134.22	135.22	134.15	0.82	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	1.57	1.25	1.43	1.42	11.04	ppb
Selenium	77-2	1.22	2.14	1.07	1.48	39.10	ppb
Selenium	78-2	1.16	2.47	2.03	1.89	35.42	ppb
Silicon	28-1	7.77	8.64	7.82	8.07	6.03	ppb
Silver	107-1	15.63	15.75	16.09	15.82	1.51	ppb
Silver	109-1	15.54	15.68	15.95	15.72	1.32	ppb
Sodium	23-2	23.89	23.22	23.18	23.43	1.71	ppb
Strontium	86-1	93.91	95.62	101.90	97.15	4.33	ppb
Strontium	88-1	99.10	98.42	99.57	99.03	0.58	ppb
Sulfur	34-1	1714.43	1780.14	1727.71	1740.76	2.00	ppb
Terbium	159-1				111		%
Terbium	159-2				110		%
Thallium	203-1	0.05	0.04	0.04	0.04	6.88	ppb
Thallium	205-1	0.04	0.05	0.05	0.05	8.50	ppb
Tin	118-1	5.74	5.68	5.73	5.72	0.63	ppb
Titanium	47-1	12.23	12.17	12.37	12.26	0.84	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:15:49 DataFile Name : 096SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.11	0.10	0.11	0.10	4.08	ppb
Vanadium	51-2	2.97	2.74	2.96	2.89	4.65	ppb
Yttrium	89-1				110		%
Yttrium	89-2				110		%
Zinc	66-2	202.34	202.47	202.43	202.41	0.03	ppb
Zirconium	90-1	0.05	0.04	0.05	0.05	6.68	ppb
Zirconium	91-1	0.04	0.04	0.06	0.05	20.92	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL3X20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-06 19:19:33 DataFile Name : 097SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	188.63	190.34	189.11	189.36	0.47	ppb
Antimony	121-1	31.99	32.51	32.65	32.38	1.07	ppb
Arsenic	75-2	154.30	153.80	156.14	154.75	0.80	ppb
Barium	135-1	12.16	12.46	12.36	12.33	1.21	ppb
Barium	137-1	12.30	12.42	12.41	12.37	0.55	ppb
Beryllium	9-1	0.00	0.00	0.03	0.01	136.98	ppb
Bismuth	209-1				138		%
Bismuth	209-2				135		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.81	1.47	1.79	1.69	11.05	ppb
Cadmium	106-1	-8.61	-9.77	-6.12	-8.17		ppb
Cadmium	111-1	1.47	1.51	1.48	1.49	1.35	ppb
Calcium	43-1	110.55	114.37	111.07	111.99	1.85	ppb
Calcium	44-1	110.34	111.23	111.24	110.93	0.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.46	0.51	0.51	0.50	5.38	ppb
Cobalt	59-2	0.24	0.25	0.23	0.24	3.58	ppb
Copper	63-2	748.93	747.19	742.97	746.36	0.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				110		%
Indium	115-1				111		%
Indium	115-2				109		%
Iron	56-2	10313.92	10192.77	10319.94	10275.55	0.70	ppb
Iron	57-2	10277.13	10223.58	10343.14	10281.28	0.58	ppb
Iron	54-2	10493.39	10314.50	10513.77	10440.56	1.05	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL3X20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-06 19:19:33 DataFile Name : 097SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4741.80	4893.71	4911.11	4848.87	1.92	ppb
Lead	207-1	4517.04	4619.20	4622.69	4586.31	1.31	ppb
Lead	208-1	4633.64	4718.01	4684.70	4678.78	0.91	ppb
Lithium	6-1				97		%
Magnesium	24-2	58.49	58.33	59.40	58.74	0.99	ppb
Manganese	55-2	131.26	130.51	132.46	131.41	0.75	ppb
Molybdenum	94-1	22.62	23.45	22.97	23.01	1.82	ppb
Molybdenum	95-1	27.47	27.98	28.01	27.82	1.09	ppb
Molybdenum	96-1	27.06	27.69	27.68	27.48	1.33	ppb
Molybdenum	97-1	27.61	27.84	28.52	27.99	1.68	ppb
Molybdenum	98-1	27.65	27.85	27.66	27.72	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.16	0.14	0.14	0.15	7.65	ppb
Phosphorus	31-2	39.18	26.46	40.39	35.35	21.83	ppb
Potassium	39-2	121.53	121.50	123.75	122.26	1.06	ppb
Rhodium	103-1				109		%
Rhodium	103-2				110		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	1.84	1.38	1.83	1.68	15.40	ppb
Selenium	77-2	1.39	1.07	1.24	1.23	12.77	ppb
Selenium	78-2	0.71	1.25	1.33	1.10	30.92	ppb
Silicon	28-1	1.77	1.92	2.45	2.05	17.37	ppb
Silver	107-1	7.54	7.63	7.62	7.60	0.67	ppb
Silver	109-1	7.44	7.57	7.70	7.57	1.71	ppb
Sodium	23-2	12.77	12.94	13.46	13.06	2.73	ppb
Strontium	86-1	366.86	372.19	372.36	370.47	0.84	ppb
Strontium	88-1	371.12	373.74	377.77	374.21	0.90	ppb
Sulfur	34-1	1742.79	1765.82	1831.09	1779.90	2.57	ppb
Terbium	159-1				111		%
Terbium	159-2				110		%
Thallium	203-1	0.13	0.11	0.13	0.13	8.36	ppb
Thallium	205-1	0.12	0.13	0.12	0.12	6.78	ppb
Tin	118-1	4.26	4.33	4.26	4.28	1.04	ppb
Titanium	47-1	1.87	1.96	1.99	1.94	3.26	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL3X20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-06 19:19:33 DataFile Name : 097SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.10	0.10	0.10	0.10	2.09	ppb
Vanadium	51-2	1.69	1.64	1.67	1.67	1.66	ppb
Yttrium	89-1				110		%
Yttrium	89-2				109		%
Zinc	66-2	387.66	382.91	382.17	384.24	0.78	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	5.59	ppb
Zirconium	91-1	0.07	0.08	0.06	0.07	13.04	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P7
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:22:43 DataFile Name : 098CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49921.43	49186.19	49519.14	49542.25	0.74	ppb
Antimony	121-1	504.70	515.29	452.50	490.83	6.85	ppb
Arsenic	75-2	479.21	476.90	484.23	480.11	0.78	ppb
Barium	135-1	2437.99	2479.97	2200.98	2372.98	6.34	ppb
Barium	137-1	2441.00	2526.77	2166.79	2378.18	7.91	ppb
Beryllium	9-1	488.21	528.19	457.88	491.43	7.18	ppb
Bismuth	209-1				104		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	495.70	517.73	451.49	488.30	6.91	ppb
Cadmium	106-1	492.80	503.21	439.82	478.61	7.10	ppb
Cadmium	111-1	488.81	496.92	440.81	475.51	6.38	ppb
Calcium	43-1	255155.18	265864.70	228216.03	249745.31	7.77	ppb
Calcium	44-1	253143.66	263093.51	228573.99	248270.39	7.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	501.46	501.42	498.41	500.43	0.35	ppb
Cobalt	59-2	500.42	492.33	488.83	493.86	1.20	ppb
Copper	63-2	4863.34	4874.46	4878.02	4871.94	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				103		%
Indium	115-1				96		%
Indium	115-2				88		%
Iron	56-2	130324.28	130702.27	131762.96	130929.84	0.57	ppb
Iron	57-2	131757.74	131287.85	131115.20	131386.93	0.25	ppb
Iron	54-2	131873.50	130099.17	130228.38	130733.68	0.76	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P7
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:22:43 DataFile Name : 098CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2552.48	2618.88	2294.89	2488.75	6.88	ppb
Lead	207-1	2535.06	2605.40	2277.99	2472.82	6.97	ppb
Lead	208-1	2538.75	2604.43	2282.15	2475.11	6.88	ppb
Lithium	6-1				104		%
Magnesium	24-2	251984.42	250923.89	250625.33	251177.88	0.28	ppb
Manganese	55-2	4906.56	4953.51	4982.05	4947.37	0.77	ppb
Molybdenum	94-1	4797.68	5160.77	4518.07	4825.51	6.68	ppb
Molybdenum	95-1	4890.31	5165.32	4504.28	4853.31	6.84	ppb
Molybdenum	96-1	4938.76	5153.53	4503.49	4865.26	6.81	ppb
Molybdenum	97-1	4907.65	5093.59	4490.97	4830.74	6.39	ppb
Molybdenum	98-1	4908.08	5132.75	4465.03	4835.28	7.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.95	497.73	499.23	498.64	0.16	ppb
Phosphorus	31-2	9818.24	9788.93	9858.54	9821.90	0.36	ppb
Potassium	39-2	123377.68	122369.36	122802.54	122849.86	0.41	ppb
Rhodium	103-1				91		%
Rhodium	103-2				86		%
Scandium	45-1				93		%
Scandium	45-2				83		%
Selenium	82-1	486.74	509.57	445.72	480.68	6.73	ppb
Selenium	77-2	468.55	474.94	491.60	478.36	2.49	ppb
Selenium	78-2	475.40	487.79	488.86	484.01	1.55	ppb
Silicon	28-1	550.17	572.57	492.07	538.27	7.72	ppb
Silver	107-1	492.47	503.60	448.64	481.57	6.03	ppb
Silver	109-1	490.39	504.12	441.39	478.63	6.89	ppb
Sodium	23-2	250752.59	248281.34	249664.60	249566.18	0.50	ppb
Strontium	86-1	12023.28	12733.81	11245.37	12000.82	6.20	ppb
Strontium	88-1	12374.60	12725.42	11176.26	12092.09	6.72	ppb
Sulfur	34-1	10018.34	10537.15	8434.58	9663.36	11.33	ppb
Terbium	159-1				107		%
Terbium	159-2				102		%
Thallium	203-1	511.37	521.59	465.11	499.36	6.03	ppb
Thallium	205-1	510.57	524.86	460.31	498.58	6.80	ppb
Tin	118-1	488.73	498.79	441.48	476.33	6.42	ppb
Titanium	47-1	4942.57	5126.47	4409.39	4826.15	7.72	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P7
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:22:43 DataFile Name : 098CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	499.17	521.14	454.70	491.67	6.88	ppb
Vanadium	51-2	505.66	504.98	503.32	504.65	0.24	ppb
Yttrium	89-1				99		%
Yttrium	89-2				89		%
Zinc	66-2	4990.79	4992.52	5037.22	5006.84	0.53	ppb
Zirconium	90-1	489.57	512.00	450.63	484.07	6.42	ppb
Zirconium	91-1	492.80	506.34	442.16	480.43	7.04	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P7
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:25:24 DataFile Name : 099CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.68	7.69	8.54	8.30	6.41	ppb
Antimony	121-1	0.26	0.21	0.20	0.22	14.60	ppb
Arsenic	75-2	0.12	0.04	0.12	0.10	47.49	ppb
Barium	135-1	0.43	0.36	0.38	0.39	9.58	ppb
Barium	137-1	0.44	0.35	0.38	0.39	12.26	ppb
Beryllium	9-1	0.13	0.10	0.08	0.10	25.15	ppb
Bismuth	209-1				115		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	0.16	0.12	0.09	93.63	ppb
Cadmium	106-1	-16.57	-18.39	-18.44	-17.80		ppb
Cadmium	111-1	-0.08	-0.13	-0.13	-0.11		ppb
Calcium	43-1	40.34	34.83	33.83	36.33	9.64	ppb
Calcium	44-1	42.27	36.96	37.06	38.76	7.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.14	0.12	0.08	0.12	27.50	ppb
Cobalt	59-2	0.07	0.08	0.09	0.08	9.22	ppb
Copper	63-2	0.96	1.00	0.98	0.98	2.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				103		%
Indium	115-1				100		%
Indium	115-2				93		%
Iron	56-2	24.39	24.94	25.26	24.86	1.75	ppb
Iron	57-2	20.31	24.01	23.24	22.52	8.67	ppb
Iron	54-2	23.11	25.61	26.05	24.92	6.36	ppb
Krypton	83-1						cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P7
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:25:24 DataFile Name : 099CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.98	0.92	0.82	0.91	8.90	ppb
Lead	207-1	0.93	0.88	0.84	0.88	5.52	ppb
Lead	208-1	0.95	0.88	0.84	0.89	6.41	ppb
Lithium	6-1				111		%
Magnesium	24-2	40.53	42.86	42.72	42.04	3.11	ppb
Manganese	55-2	0.86	0.84	0.88	0.86	2.52	ppb
Molybdenum	94-1	1.00	0.91	0.86	0.92	7.46	ppb
Molybdenum	95-1	0.92	0.83	0.85	0.86	5.34	ppb
Molybdenum	96-1	0.97	0.84	0.87	0.89	7.81	ppb
Molybdenum	97-1	0.98	0.86	0.82	0.89	9.36	ppb
Molybdenum	98-1	0.96	0.88	0.80	0.88	8.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	0.05	-0.03	0.02	209.69	ppb
Phosphorus	31-2	-31.07	-29.50	-32.89	-31.15		ppb
Potassium	39-2	19.03	20.07	18.90	19.33	3.33	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				90		%
Scandium	45-2				81		%
Selenium	82-1	-0.12	-0.15	-0.17	-0.15		ppb
Selenium	77-2	0.19	0.19	0.19	0.19	0.63	ppb
Selenium	78-2	-0.93	-1.95	-1.70	-1.53		ppb
Silicon	28-1	-13.04	-13.13	-13.20	-13.12		ppb
Silver	107-1	0.14	0.12	0.12	0.13	10.36	ppb
Silver	109-1	0.14	0.11	0.12	0.13	12.89	ppb
Sodium	23-2	61.36	60.64	61.47	61.15	0.73	ppb
Strontium	86-1	1.53	1.74	1.94	1.73	11.81	ppb
Strontium	88-1	2.25	1.98	1.98	2.07	7.49	ppb
Sulfur	34-1	-407.82	-454.82	-465.67	-442.77		ppb
Terbium	159-1				107		%
Terbium	159-2				102		%
Thallium	203-1	0.13	0.11	0.13	0.12	9.37	ppb
Thallium	205-1	0.13	0.12	0.12	0.13	3.18	ppb
Tin	118-1	0.10	0.09	0.10	0.10	7.66	ppb
Titanium	47-1	0.85	0.75	0.74	0.78	7.26	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P7
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:25:24 DataFile Name : 099CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.07	0.07	0.07	0.07	2.45	ppb
Vanadium	51-2	0.07	0.09	0.10	0.09	17.25	ppb
Yttrium	89-1				97		%
Yttrium	89-2				89		%
Zinc	66-2	1.08	1.19	1.09	1.12	5.31	ppb
Zirconium	90-1	0.11	0.09	0.09	0.10	13.22	ppb
Zirconium	91-1	0.10	0.08	0.08	0.09	14.76	ppb

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:15:48 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	147	157	129	30.86	cps
Antimony	121-1	23	47	30	33	36.07	cps
Arsenic	75-2	3	10	20	11	75.52	cps
Barium	135-1	30	37	40	36	14.32	cps
Barium	137-1	73	43	73	63	27.35	cps
Beryllium	9-1	40	47	53	47	14.28	cps
Bismuth	209-1	8529486	8468611	8444053	8480716	0.52	cps
Bismuth	209-2	7660856	7588367	7418521	7555914	1.65	cps
Bromine	81-1	15608	15725	15965	15766	1.15	cps
Bromine	81-2	143	200	160	168	17.36	cps
Cadmium	108-1	47	47	50	48	4.02	cps
Cadmium	106-1	25539	25636	25232	25469	0.83	cps
Cadmium	111-1	2558	2561	2512	2543	1.09	cps
Calcium	43-1	513	590	470	524	11.59	cps
Calcium	44-1	11681	11001	11181	11288	3.12	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3254	3180	3380	3271	3.09	cps
Cobalt	59-2	243	257	207	236	10.99	cps
Copper	63-2	2864	2854	3020	2913	3.21	cps
Dysprosium	156-1	10	7	0	6	91.64	cps
Dysprosium	156-2	0	10	13	8	89.21	cps
Erbium	164-1	60	67	53	60	11.12	cps
Erbium	164-2	53	70	33	52	35.16	cps
Gadolinium	160-1	123	110	120	118	5.89	cps
Gadolinium	160-2	720	737	720	726	1.33	cps
Holmium	165-1	14041424	13951904	14094076	14029135	0.51	cps
Holmium	165-2	10643521	10474909	10308031	10475487	1.60	cps
Indium	115-1	11536638	11823881	11665690	11675403	1.23	cps
Indium	115-2	4774858	4773512	4690592	4746321	1.02	cps
Iron	56-2	24931	25381	24941	25084	1.03	cps
Iron	57-2	1793	1880	1817	1830	2.45	cps
Iron	54-2	3110	3050	3120	3094	1.22	cps
Krypton	83-1	167	230	250	216	20.18	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:15:48 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	420	433	377	410	7.23	cps
Lead	207-1	413	387	330	377	11.30	cps
Lead	208-1	1717	1637	1620	1658	3.12	cps
Lithium	6-1	1500174	1454961	1435033	1463389	2.28	cps
Magnesium	24-2	470	460	493	474	3.61	cps
Manganese	55-2	373	400	410	394	4.81	cps
Molybdenum	94-1	450	397	507	451	12.19	cps
Molybdenum	95-1	393	497	467	452	11.76	cps
Molybdenum	96-1	463	450	490	468	4.35	cps
Molybdenum	97-1	307	300	300	302	1.27	cps
Molybdenum	98-1	673	703	680	686	2.30	cps
Neodymium	150-1	7	10	7	8	24.71	cps
Neodymium	150-2	3	3	7	4	43.40	cps
Nickel	60-2	1037	1020	983	1013	2.69	cps
Phosphorus	31-2	427	400	467	431	7.78	cps
Potassium	39-2	59911	59951	60208	60023	0.27	cps
Rhodium	103-1	11053561	11076527	11159392	11096493	0.50	cps
Rhodium	103-2	6699804	6762439	6656029	6706091	0.80	cps
Scandium	45-1	6732662	6771929	6599066	6701219	1.35	cps
Scandium	45-2	608393	607324	604285	606667	0.35	cps
Selenium	82-1	409	355	401	388	7.43	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	437	487	443	456	5.96	cps
Silicon	28-1	1674046	1660287	1657834	1664056	0.53	cps
Silver	107-1	103	143	100	116	20.87	cps
Silver	109-1	50	53	63	56	12.49	cps
Sodium	23-2	22847	22560	22964	22790	0.91	cps
Strontium	86-1	300	370	310	327	11.59	cps
Strontium	88-1	153	163	163	160	3.61	cps
Sulfur	34-1	188996	192209	191392	190866	0.88	cps
Terbium	159-1	14506340	14442705	14176748	14375264	1.22	cps
Terbium	159-2	10589064	10322036	10309249	10406783	1.52	cps
Thallium	203-1	230	243	170	214	18.22	cps
Thallium	205-1	520	547	480	516	6.51	cps
Tin	118-1	947	917	803	889	8.51	cps
Titanium	47-1	70	130	83	94	33.36	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:15:48 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60	47	33	47	28.58	cps
Vanadium	51-2	10	13	17	13	25.01	cps
Yttrium	89-1	17787128	18138681	17679290	17868366	1.34	cps
Yttrium	89-2	5282745	5233675	5188095	5234838	0.90	cps
Zinc	66-2	207	200	210	206	2.48	cps
Zirconium	90-1	913	953	913	927	2.49	cps
Zirconium	91-1	80	153	103	112	33.39	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:19:03 DataFile Name : 005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4941	4951	5124	5005	2.06	cps
Antimony	121-1	23205	22781	22581	22856	1.39	cps
Arsenic	75-2	733	727	827	762	7.34	cps
Barium	135-1	29454	28589	28408	28817	1.94	cps
Barium	137-1	50064	50817	50315	50399	0.76	cps
Beryllium	9-1	1467	1637	1433	1512	7.21	cps
Bismuth	209-1	8561474	8506468	8395935	8487959	0.99	cps
Bismuth	209-2	7679461	7637213	7617421	7644698	0.41	cps
Bromine	81-1	15995	16232	16059	16096	0.76	cps
Bromine	81-2	163	167	130	153	13.22	cps
Cadmium	108-1	247	303	327	292	14.08	cps
Cadmium	106-1	25813	25773	25990	25859	0.45	cps
Cadmium	111-1	5489	5482	5624	5532	1.45	cps
Calcium	43-1	17233	16816	16556	16868	2.03	cps
Calcium	44-1	275308	276871	275683	275954	0.30	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13266	13026	12822	13038	1.70	cps
Cobalt	59-2	8159	8366	8012	8179	2.17	cps
Copper	63-2	13566	13453	13543	13521	0.44	cps
Dysprosium	156-1	10	3	17	10	66.70	cps
Dysprosium	156-2	3	7	7	6	34.70	cps
Erbium	164-1	110	87	47	81	39.49	cps
Erbium	164-2	43	27	53	41	32.76	cps
Gadolinium	160-1	117	103	107	109	6.37	cps
Gadolinium	160-2	647	700	590	646	8.52	cps
Holmium	165-1	14028347	13973102	13848659	13950036	0.66	cps
Holmium	165-2	10515341	10389220	10461164	10455242	0.61	cps
Indium	115-1	11579226	11477482	11594538	11550415	0.55	cps
Indium	115-2	4736631	4767122	4676847	4726867	0.97	cps
Iron	56-2	259639	262926	260726	261097	0.64	cps
Iron	57-2	8112	8209	7976	8099	1.45	cps
Iron	54-2	16246	16229	16816	16430	2.04	cps
Krypton	83-1	237	197	237	223	10.34	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:19:03 DataFile Name : 005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8576	8433	8416	8475	1.04	cps
Lead	207-1	7435	7492	7576	7501	0.94	cps
Lead	208-1	34150	34614	34297	34354	0.69	cps
Lithium	6-1	1485550	1477118	1509570	1490746	1.13	cps
Magnesium	24-2	211658	211235	208770	210554	0.74	cps
Manganese	55-2	4274	4404	4127	4268	3.24	cps
Molybdenum	94-1	24838	23893	23726	24152	2.48	cps
Molybdenum	95-1	28792	29256	30104	29384	2.27	cps
Molybdenum	96-1	32372	33288	32583	32748	1.46	cps
Molybdenum	97-1	18345	17901	18445	18230	1.59	cps
Molybdenum	98-1	47447	47176	47313	47312	0.29	cps
Neodymium	150-1	10	3	10	8	49.52	cps
Neodymium	150-2	10	0	3	4	114.60	cps
Nickel	60-2	2850	2967	2937	2918	2.08	cps
Phosphorus	31-2	817	793	797	802	1.57	cps
Potassium	39-2	360889	359558	360890	360446	0.21	cps
Rhodium	103-1	10965555	11053350	10930184	10983030	0.58	cps
Rhodium	103-2	6699207	6764159	6708173	6723846	0.52	cps
Scandium	45-1	6718339	6725276	6654057	6699224	0.59	cps
Scandium	45-2	604611	608277	605887	606258	0.31	cps
Selenium	82-1	1341	1366	1323	1343	1.63	cps
Selenium	77-2	113	117	100	110	8.02	cps
Selenium	78-2	973	883	850	902	7.07	cps
Silicon	28-1	1679472	1672713	1661280	1671155	0.55	cps
Silver	107-1	14284	14317	14371	14324	0.31	cps
Silver	109-1	13513	13813	13773	13700	1.19	cps
Sodium	23-2	357435	355745	353282	355487	0.59	cps
Strontium	86-1	4044	4061	3997	4034	0.81	cps
Strontium	88-1	32666	32022	32777	32488	1.26	cps
Sulfur	34-1	193798	193809	195210	194272	0.42	cps
Terbium	159-1	14268341	14344877	14467490	14360236	0.70	cps
Terbium	159-2	10576202	10570831	10343160	10496731	1.27	cps
Thallium	203-1	10698	10034	10391	10374	3.20	cps
Thallium	205-1	25133	24419	24736	24763	1.45	cps
Tin	118-1	49291	48799	48481	48857	0.83	cps
Titanium	47-1	7559	7629	7852	7680	2.00	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:19:03 DataFile Name : 005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	30532	30114	30061	30235	0.85	cps
Vanadium	51-2	21529	22150	22003	21894	1.48	cps
Yttrium	89-1	17597846	17885658	17974406	17819303	1.10	cps
Yttrium	89-2	5201854	5260639	5154969	5205821	1.02	cps
Zinc	66-2	5008	5041	4701	4916	3.81	cps
Zirconium	90-1	20217	20304	20468	20330	0.63	cps
Zirconium	91-1	4584	4427	4561	4524	1.87	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:25:33 DataFile Name : 007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	231729	228917	228507	229718	0.76	cps
Antimony	121-1	544268	544346	541412	543342	0.31	cps
Arsenic	75-2	30962	30398	29626	30329	2.21	cps
Barium	135-1	693107	695048	694228	694128	0.14	cps
Barium	137-1	1214233	1203295	1197160	1204896	0.72	cps
Beryllium	9-1	66237	66049	65916	66067	0.24	cps
Bismuth	209-1	8713089	8622786	8740978	8692284	0.71	cps
Bismuth	209-2	7591781	7620563	7729598	7647314	0.95	cps
Bromine	81-1	15281	15368	15208	15286	0.52	cps
Bromine	81-2	127	153	140	140	9.52	cps
Cadmium	108-1	10914	10584	11094	10864	2.38	cps
Cadmium	106-1	40690	40496	41339	40842	1.08	cps
Cadmium	111-1	134776	135768	135424	135323	0.37	cps
Calcium	43-1	155470	157117	155154	155914	0.68	cps
Calcium	44-1	2430724	2437573	2412340	2426879	0.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	229655	227486	225764	227635	0.86	cps
Cobalt	59-2	350764	347681	350249	349565	0.47	cps
Copper	63-2	2581679	2606787	2563541	2584002	0.84	cps
Dysprosium	156-1	63	60	60	61	3.15	cps
Dysprosium	156-2	83	73	43	67	31.23	cps
Erbium	164-1	83	93	63	80	19.09	cps
Erbium	164-2	60	43	50	51	16.42	cps
Gadolinium	160-1	117	87	150	118	26.90	cps
Gadolinium	160-2	623	617	713	651	8.29	cps
Holmium	165-1	14174560	14126331	14137006	14145966	0.18	cps
Holmium	165-2	10490578	10385484	10550856	10475639	0.80	cps
Indium	115-1	11547979	11474639	11556456	11526358	0.39	cps
Indium	115-2	4633632	4612450	4613705	4619929	0.26	cps
Iron	56-2	10517130	10561354	10444907	10507797	0.56	cps
Iron	57-2	277970	274379	270480	274276	1.37	cps
Iron	54-2	601131	597487	596674	598431	0.40	cps
Krypton	83-1	203	197	190	197	3.39	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:25:33 DataFile Name : 007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2032916	2056495	2055776	2048396	0.65	cps
Lead	207-1	1874618	1860715	1883146	1872826	0.60	cps
Lead	208-1	8498456	8434770	8580792	8504673	0.86	cps
Lithium	6-1	1569419	1541166	1535102	1548562	1.18	cps
Magnesium	24-2	1892546	1863162	1850110	1868606	1.16	cps
Manganese	55-2	1799520	1784885	1795271	1793226	0.42	cps
Molybdenum	94-1	1955685	1978886	1960978	1965183	0.62	cps
Molybdenum	95-1	2748800	2797363	2771795	2772653	0.88	cps
Molybdenum	96-1	3062939	3106283	3048299	3072507	0.98	cps
Molybdenum	97-1	1738109	1744167	1726976	1736417	0.50	cps
Molybdenum	98-1	4458248	4507780	4417525	4461185	1.01	cps
Neodymium	150-1	47	67	67	60	19.24	cps
Neodymium	150-2	7	23	13	14	58.06	cps
Nickel	60-2	89434	89270	88358	89021	0.65	cps
Phosphorus	31-2	12765	12252	12205	12407	2.51	cps
Potassium	39-2	1414239	1399856	1393567	1402554	0.76	cps
Rhodium	103-1	10891778	10976380	10797544	10888567	0.82	cps
Rhodium	103-2	6521336	6534758	6541987	6532694	0.16	cps
Scandium	45-1	6791675	6695707	6654071	6713818	1.05	cps
Scandium	45-2	580810	579306	576007	578708	0.42	cps
Selenium	82-1	9055	9140	9014	9070	0.71	cps
Selenium	77-2	993	880	1090	988	10.64	cps
Selenium	78-2	4031	3721	3851	3867	4.03	cps
Silicon	28-1	5535900	5478399	5436096	5483465	0.91	cps
Silver	107-1	715715	718898	718058	717557	0.23	cps
Silver	109-1	683390	680767	689979	684712	0.69	cps
Sodium	23-2	3256041	3251254	3216517	3241271	0.67	cps
Strontium	86-1	173425	173855	172868	173383	0.29	cps
Strontium	88-1	1525345	1511410	1516077	1517611	0.47	cps
Sulfur	34-1	233049	230394	228496	230646	0.99	cps
Terbium	159-1	14483751	14607999	14554184	14548645	0.43	cps
Terbium	159-2	10317304	10578042	10405969	10433772	1.27	cps
Thallium	203-1	505343	508347	508963	507551	0.38	cps
Thallium	205-1	1187393	1202460	1201171	1197008	0.70	cps
Tin	118-1	447930	453216	452911	451352	0.66	cps
Titanium	47-1	714966	719897	711131	715331	0.61	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:25:33 DataFile Name : 007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1473840	1499289	1516143	1496424	1.42	cps
Vanadium	51-2	200131	199899	197561	199197	0.71	cps
Yttrium	89-1	17878794	17746667	17701559	17775673	0.52	cps
Yttrium	89-2	5113709	5028205	5041247	5061054	0.91	cps
Zinc	66-2	432894	431251	426078	430074	0.83	cps
Zirconium	90-1	949927	946625	953419	949991	0.36	cps
Zirconium	91-1	211445	209977	210694	210705	0.35	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:28:35 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	538234	533409	533635	535093	0.51	cps
Antimony	121-1	1323767	1330743	1331636	1328715	0.32	cps
Arsenic	75-2	71447	71327	71668	71481	0.24	cps
Barium	135-1	1750411	1784823	1735154	1756796	1.45	cps
Barium	137-1	3071724	3054275	3062253	3062751	0.29	cps
Beryllium	9-1	165312	170150	167913	167792	1.44	cps
Bismuth	209-1	8830032	8745639	8652027	8742566	1.02	cps
Bismuth	209-2	7529136	7499333	7557066	7528512	0.38	cps
Bromine	81-1	14310	14077	13700	14029	2.20	cps
Bromine	81-2	97	97	90	94	4.08	cps
Cadmium	108-1	26999	26695	26381	26691	1.16	cps
Cadmium	106-1	62775	62119	61275	62056	1.21	cps
Cadmium	111-1	326539	329688	327000	327743	0.52	cps
Calcium	43-1	374187	377537	374094	375273	0.52	cps
Calcium	44-1	5857326	5873954	5780100	5837126	0.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	529478	529243	527287	528669	0.23	cps
Cobalt	59-2	818757	814433	809653	814281	0.56	cps
Copper	63-2	6033304	6020915	5904087	5986102	1.19	cps
Dysprosium	156-1	70	87	103	87	19.23	cps
Dysprosium	156-2	140	140	130	137	4.22	cps
Erbium	164-1	77	93	97	89	12.05	cps
Erbium	164-2	97	53	73	74	29.14	cps
Gadolinium	160-1	93	130	157	127	25.11	cps
Gadolinium	160-2	620	747	710	692	9.42	cps
Holmium	165-1	14136111	14205766	14122614	14154830	0.32	cps
Holmium	165-2	10407159	10424087	10350561	10393935	0.37	cps
Indium	115-1	11271787	11281184	11473705	11342226	1.00	cps
Indium	115-2	4479628	4459196	4444967	4461264	0.39	cps
Iron	56-2	24633703	24418752	24291695	24448050	0.71	cps
Iron	57-2	644251	639123	634767	639380	0.74	cps
Iron	54-2	1374940	1352939	1349740	1359206	1.01	cps
Krypton	83-1	153	180	183	172	9.55	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:28:35 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5255150	5252476	5221059	5242895	0.36	cps
Lead	207-1	4659063	4768536	4690839	4706146	1.20	cps
Lead	208-1	21298342	21447588	21324792	21356907	0.37	cps
Lithium	6-1	1582222	1589497	1619196	1596972	1.23	cps
Magnesium	24-2	4352068	4318963	4318559	4329863	0.44	cps
Manganese	55-2	4215687	4213257	4152649	4193865	0.85	cps
Molybdenum	94-1	4722876	4712445	4709604	4714975	0.15	cps
Molybdenum	95-1	6767775	6759744	6735831	6754450	0.25	cps
Molybdenum	96-1	7465376	7463866	7473844	7467695	0.07	cps
Molybdenum	97-1	4275884	4169928	4194070	4213294	1.32	cps
Molybdenum	98-1	10917534	10946424	10802035	10888664	0.70	cps
Neodymium	150-1	140	150	123	138	9.77	cps
Neodymium	150-2	57	40	37	44	24.11	cps
Nickel	60-2	209519	206207	207028	207585	0.83	cps
Phosphorus	31-2	28059	28209	28119	28129	0.27	cps
Potassium	39-2	3149660	3128955	3155868	3144828	0.45	cps
Rhodium	103-1	10810738	10565072	10565125	10646979	1.33	cps
Rhodium	103-2	6226159	6160313	6219878	6202117	0.59	cps
Scandium	45-1	6540502	6426540	6381877	6449640	1.27	cps
Scandium	45-2	548835	539859	542585	543760	0.85	cps
Selenium	82-1	21862	21500	21347	21570	1.23	cps
Selenium	77-2	2234	2357	2477	2356	5.17	cps
Selenium	78-2	8436	8559	8499	8498	0.73	cps
Silicon	28-1	10896630	10894044	10790587	10860420	0.56	cps
Silver	107-1	1749991	1774549	1745307	1756615	0.89	cps
Silver	109-1	1683079	1658535	1691336	1677650	1.02	cps
Sodium	23-2	7612996	7530542	7511262	7551600	0.72	cps
Strontium	86-1	420656	424231	421449	422112	0.44	cps
Strontium	88-1	3731129	3763136	3725778	3740014	0.54	cps
Sulfur	34-1	282323	280094	277717	280045	0.82	cps
Terbium	159-1	14658997	14533811	14407329	14533379	0.87	cps
Terbium	159-2	10412973	10379588	10239755	10344105	0.89	cps
Thallium	203-1	1266623	1274441	1283194	1274753	0.65	cps
Thallium	205-1	3204921	3175898	3244903	3208574	1.08	cps
Tin	118-1	1101460	1102967	1104606	1103011	0.14	cps
Titanium	47-1	1773331	1744991	1730805	1749709	1.24	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:28:35 DataFile Name : 008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4081517	4047347	4110299	4079721	0.77	cps
Vanadium	51-2	467379	462728	464069	464725	0.52	cps
Yttrium	89-1	17473087	17389898	17221530	17361505	0.74	cps
Yttrium	89-2	4865951	4839232	4847416	4850866	0.28	cps
Zinc	66-2	1011824	1013849	1009409	1011694	0.22	cps
Zirconium	90-1	2377624	2330456	2353148	2353743	1.00	cps
Zirconium	91-1	516815	512906	511242	513654	0.56	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:31:26 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1019902	1011781	1011784	1014489	0.46	cps
Antimony	121-1	2694893	2694146	2665310	2684783	0.63	cps
Arsenic	75-2	136833	135094	136628	136185	0.70	cps
Barium	135-1	3501100	3477921	3488350	3489124	0.33	cps
Barium	137-1	6014381	5994961	6042331	6017224	0.40	cps
Beryllium	9-1	331797	332555	334045	332799	0.34	cps
Bismuth	209-1	8614461	8848784	8789012	8750752	1.39	cps
Bismuth	209-2	7610615	7655798	7487887	7584767	1.15	cps
Bromine	81-1	13613	14030	13787	13810	1.52	cps
Bromine	81-2	160	127	133	140	12.60	cps
Cadmium	108-1	52190	51658	51879	51909	0.51	cps
Cadmium	106-1	96451	96219	95394	96021	0.58	cps
Cadmium	111-1	636563	639782	634484	636943	0.42	cps
Calcium	43-1	729114	714808	717348	720423	1.06	cps
Calcium	44-1	11227701	11336454	11124567	11229574	0.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1001480	993573	987722	994258	0.69	cps
Cobalt	59-2	1563122	1555811	1521265	1546733	1.45	cps
Copper	63-2	11315128	11336368	11146098	11265864	0.93	cps
Dysprosium	156-1	133	153	130	139	9.09	cps
Dysprosium	156-2	217	223	287	242	15.95	cps
Erbium	164-1	150	110	120	127	16.43	cps
Erbium	164-2	73	80	100	84	16.44	cps
Gadolinium	160-1	130	143	153	142	8.23	cps
Gadolinium	160-2	720	720	730	723	0.80	cps
Holmium	165-1	14061536	14008636	13996378	14022183	0.25	cps
Holmium	165-2	10377764	10278979	10423038	10359927	0.71	cps
Indium	115-1	11073040	11033396	10888752	10998396	0.88	cps
Indium	115-2	4268906	4275049	4243747	4262567	0.39	cps
Iron	56-2	46684059	46760084	46739578	46727907	0.08	cps
Iron	57-2	1211383	1206668	1206132	1208061	0.24	cps
Iron	54-2	2606671	2579410	2597255	2594445	0.53	cps
Krypton	83-1	157	167	173	166	5.07	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:31:26 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10337548	10669140	10609335	10538675	1.68	cps
Lead	207-1	9397314	9573214	9537829	9502786	0.98	cps
Lead	208-1	42665992	43662892	43503844	43277576	1.24	cps
Lithium	6-1	1610325	1632256	1629203	1623928	0.73	cps
Magnesium	24-2	8274928	8221210	8185853	8227330	0.55	cps
Manganese	55-2	7982618	7986379	7957917	7975638	0.19	cps
Molybdenum	94-1	9266939	9237507	9134780	9213075	0.75	cps
Molybdenum	95-1	13207668	13119277	13026198	13117714	0.69	cps
Molybdenum	96-1	14608074	14548893	14306521	14487829	1.10	cps
Molybdenum	97-1	8192558	8200633	8195513	8196235	0.05	cps
Molybdenum	98-1	21174304	21323887	21212448	21236880	0.37	cps
Neodymium	150-1	253	287	253	264	7.28	cps
Neodymium	150-2	103	63	70	79	27.17	cps
Nickel	60-2	389624	385891	382811	386109	0.88	cps
Phosphorus	31-2	53152	52523	52038	52571	1.06	cps
Potassium	39-2	5911457	5869683	5880238	5887126	0.37	cps
Rhodium	103-1	10168503	10261175	10170626	10200101	0.52	cps
Rhodium	103-2	5997390	5937631	5978441	5971154	0.51	cps
Scandium	45-1	6199906	6252234	6114869	6189003	1.12	cps
Scandium	45-2	516520	513162	515508	515063	0.33	cps
Selenium	82-1	41880	41068	41247	41399	1.03	cps
Selenium	77-2	4817	4407	4597	4607	4.45	cps
Selenium	78-2	16062	16049	15432	15847	2.27	cps
Silicon	28-1	19597133	19390821	19071546	19353167	1.37	cps
Silver	107-1	3448552	3389924	3385004	3407827	1.04	cps
Silver	109-1	3246437	3302006	3258541	3268995	0.89	cps
Sodium	23-2	14416933	14342586	14230169	14329896	0.66	cps
Strontium	86-1	825409	818446	815944	819933	0.60	cps
Strontium	88-1	7241583	7324552	7348540	7304892	0.77	cps
Sulfur	34-1	364798	361051	356496	360782	1.15	cps
Terbium	159-1	14485235	14607717	14480973	14524641	0.50	cps
Terbium	159-2	10313849	10267695	10161662	10247735	0.76	cps
Thallium	203-1	2660492	2668996	2711329	2680272	1.02	cps
Thallium	205-1	6362944	6379687	6466231	6402954	0.87	cps
Tin	118-1	2184754	2203791	2165216	2184587	0.88	cps
Titanium	47-1	3327695	3320781	3273941	3307472	0.88	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:31:26 DataFile Name : 009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8307481	8382912	8531348	8407247	1.35	cps
Vanadium	51-2	884855	876111	874581	878516	0.63	cps
Yttrium	89-1	16936425	16830804	17031465	16932898	0.59	cps
Yttrium	89-2	4653373	4640658	4620019	4638017	0.36	cps
Zinc	66-2	1950489	1939385	1910359	1933411	1.07	cps
Zirconium	90-1	4592192	4511355	4557302	4553616	0.89	cps
Zirconium	91-1	1006894	995791	1001039	1001241	0.55	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:34:14 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1943112	1951514	1966507	1953711	0.61	cps
Antimony	121-1	5196952	5163744	5213364	5191353	0.49	cps
Arsenic	75-2	255804	257724	256980	256836	0.38	cps
Barium	135-1	6753278	6782519	6754126	6763308	0.25	cps
Barium	137-1	11623466	11669824	11733150	11675480	0.47	cps
Beryllium	9-1	643450	645017	642555	643674	0.19	cps
Bismuth	209-1	8579435	8723953	8734443	8679277	1.00	cps
Bismuth	209-2	7356168	7384118	7490905	7410397	0.96	cps
Bromine	81-1	13359	12492	12749	12867	3.46	cps
Bromine	81-2	137	97	120	118	17.06	cps
Cadmium	108-1	98853	99119	99696	99223	0.43	cps
Cadmium	106-1	162841	161604	161199	161881	0.53	cps
Cadmium	111-1	1220865	1225550	1219267	1221894	0.27	cps
Calcium	43-1	1306097	1326260	1311966	1314774	0.79	cps
Calcium	44-1	21473708	21551555	21344100	21456454	0.49	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1893746	1877255	1885416	1885472	0.44	cps
Cobalt	59-2	2918570	2944670	2971180	2944807	0.89	cps
Copper	63-2	21196470	21046083	21236476	21159676	0.47	cps
Dysprosium	156-1	300	313	267	293	8.20	cps
Dysprosium	156-2	470	457	487	471	3.19	cps
Erbium	164-1	193	130	207	177	23.19	cps
Erbium	164-2	127	120	140	129	7.90	cps
Gadolinium	160-1	170	177	197	181	7.66	cps
Gadolinium	160-2	737	730	720	729	1.15	cps
Holmium	165-1	13907602	14079646	14213373	14066873	1.09	cps
Holmium	165-2	10222381	10308622	10294153	10275052	0.45	cps
Indium	115-1	10585195	10736056	10667930	10663060	0.71	cps
Indium	115-2	4125919	4135062	4125854	4128945	0.13	cps
Iron	56-2	88654632	88703205	88485779	88614539	0.13	cps
Iron	57-2	2233688	2229748	2261934	2241790	0.78	cps
Iron	54-2	4945792	4914392	4940422	4933535	0.34	cps
Krypton	83-1	237	230	173	213	16.31	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:34:14 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21011618	21214826	21434892	21220446	1.00	cps
Lead	207-1	18870815	18964085	19215815	19016905	0.94	cps
Lead	208-1	86037284	85794844	86842823	86224984	0.64	cps
Lithium	6-1	1611878	1607025	1632953	1617285	0.85	cps
Magnesium	24-2	15504404	15510376	15679389	15564723	0.64	cps
Manganese	55-2	15224725	15169131	15253899	15215918	0.28	cps
Molybdenum	94-1	17991333	17806986	17595835	17798051	1.11	cps
Molybdenum	95-1	25680770	25454965	25246140	25460625	0.85	cps
Molybdenum	96-1	28455091	27920521	27890255	28088622	1.13	cps
Molybdenum	97-1	16062359	15761904	15934312	15919525	0.95	cps
Molybdenum	98-1	41306544	41094139	41186021	41195568	0.26	cps
Neodymium	150-1	493	527	477	499	5.10	cps
Neodymium	150-2	160	137	133	143	10.13	cps
Nickel	60-2	723029	720058	723548	722212	0.26	cps
Phosphorus	31-2	95743	96407	96834	96328	0.57	cps
Potassium	39-2	11037037	11091889	11049737	11059554	0.26	cps
Rhodium	103-1	9668558	9812304	9875817	9785560	1.09	cps
Rhodium	103-2	5718670	5737619	5767077	5741122	0.42	cps
Scandium	45-1	5868643	5982072	5870465	5907060	1.10	cps
Scandium	45-2	489498	489124	490225	489615	0.11	cps
Selenium	82-1	78841	78405	77938	78395	0.58	cps
Selenium	77-2	8359	8579	8809	8583	2.62	cps
Selenium	78-2	28795	29149	29272	29072	0.85	cps
Silicon	28-1	35195638	34908348	34833181	34979056	0.55	cps
Silver	107-1	6564846	6436073	6505425	6502115	0.99	cps
Silver	109-1	6209908	6222364	6204993	6212422	0.14	cps
Sodium	23-2	26918422	27043834	27251169	27071142	0.62	cps
Strontium	86-1	1618356	1624911	1599593	1614287	0.81	cps
Strontium	88-1	14135538	14114569	14094623	14114910	0.14	cps
Sulfur	34-1	517244	516639	508123	514002	0.99	cps
Terbium	159-1	14214621	14418934	14407273	14346942	0.80	cps
Terbium	159-2	10051929	10105087	10126887	10094634	0.38	cps
Thallium	203-1	5315383	5410190	5420622	5382065	1.08	cps
Thallium	205-1	12755832	13038892	13077512	12957412	1.36	cps
Tin	118-1	4258780	4292597	4277022	4276133	0.40	cps
Titanium	47-1	6342078	6358074	6198557	6299570	1.39	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:34:14 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17122316	17024311	17120898	17089175	0.33	cps
Vanadium	51-2	1663870	1687820	1671105	1674265	0.73	cps
Yttrium	89-1	16261229	16347857	16375228	16328105	0.36	cps
Yttrium	89-2	4473236	4470041	4516534	4486604	0.58	cps
Zinc	66-2	3667015	3633278	3635360	3645218	0.52	cps
Zirconium	90-1	8845591	8873554	8743749	8820965	0.77	cps
Zirconium	91-1	1959407	1964606	1960946	1961653	0.14	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:36:58 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3866109	3888661	3875342	3876704	0.29	cps
Antimony	121-1	10219850	10274716	10414306	10302957	0.97	cps
Arsenic	75-2	513850	511176	512683	512570	0.26	cps
Barium	135-1	13401148	13353021	13529256	13427808	0.68	cps
Barium	137-1	23392343	23150090	23472657	23338364	0.72	cps
Beryllium	9-1	1307316	1281170	1271665	1286717	1.43	cps
Bismuth	209-1	8540766	8659915	8629946	8610209	0.72	cps
Bismuth	209-2	7186009	7256458	7271380	7237949	0.63	cps
Bromine	81-1	12315	12702	12612	12543	1.61	cps
Bromine	81-2	70	93	103	89	19.24	cps
Cadmium	108-1	190817	195521	193020	193119	1.22	cps
Cadmium	106-1	294358	293263	295208	294277	0.33	cps
Cadmium	111-1	2445348	2447148	2490045	2460847	1.03	cps
Calcium	43-1	2583905	2624915	2606139	2604986	0.79	cps
Calcium	44-1	42341516	42707200	42424021	42490912	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3742573	3803056	3774237	3773289	0.80	cps
Cobalt	59-2	5715235	5781980	5859603	5785606	1.25	cps
Copper	63-2	41713004	41673209	41742449	41709554	0.08	cps
Dysprosium	156-1	587	590	560	579	2.84	cps
Dysprosium	156-2	1000	863	920	928	7.40	cps
Erbium	164-1	220	263	247	243	8.98	cps
Erbium	164-2	147	223	187	186	20.67	cps
Gadolinium	160-1	240	273	277	263	7.70	cps
Gadolinium	160-2	860	673	813	782	12.42	cps
Holmium	165-1	13931030	14209064	14044761	14061618	0.99	cps
Holmium	165-2	10228290	10167518	10272040	10222616	0.51	cps
Indium	115-1	10386666	10368229	10488636	10414510	0.62	cps
Indium	115-2	4027064	4061666	4095224	4061318	0.84	cps
Iron	56-2	176133784	176454624	177481397	176689935	0.40	cps
Iron	57-2	4417879	4450295	4479859	4449344	0.70	cps
Iron	54-2	9725108	9657425	9767065	9716533	0.57	cps
Krypton	83-1	190	187	150	176	12.64	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:36:58 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	42124920	42514062	42176684	42271889	0.50	cps
Lead	207-1	37519068	38261543	37599984	37793531	1.08	cps
Lead	208-1	170523003	173322980	171894790	171913591	0.81	cps
Lithium	6-1	1624082	1608129	1592347	1608186	0.99	cps
Magnesium	24-2	31044635	30986009	31341652	31124098	0.61	cps
Manganese	55-2	30339378	29935459	30655448	30310095	1.19	cps
Molybdenum	94-1	35379590	35374708	35879289	35544529	0.82	cps
Molybdenum	95-1	50550041	50833766	50962064	50781957	0.42	cps
Molybdenum	96-1	55910283	55863821	56319059	56031054	0.45	cps
Molybdenum	97-1	31684859	31807440	31999857	31830718	0.50	cps
Molybdenum	98-1	82232530	81529890	82697542	82153321	0.72	cps
Neodymium	150-1	907	930	907	914	1.47	cps
Neodymium	150-2	287	273	297	286	4.10	cps
Nickel	60-2	1412824	1419245	1418997	1417022	0.26	cps
Phosphorus	31-2	191582	191971	192233	191929	0.17	cps
Potassium	39-2	22113728	21930803	22210176	22084902	0.64	cps
Rhodium	103-1	9400751	9541409	9562446	9501535	0.93	cps
Rhodium	103-2	5606610	5637401	5647718	5630576	0.38	cps
Scandium	45-1	5766887	5886889	5789309	5814362	1.10	cps
Scandium	45-2	488279	488504	493134	489972	0.56	cps
Selenium	82-1	149208	151584	150773	150522	0.80	cps
Selenium	77-2	16983	16770	16459	16737	1.57	cps
Selenium	78-2	56561	56568	57451	56860	0.90	cps
Silicon	28-1	53671964	53269783	53327949	53423232	0.41	cps
Silver	107-1	12573994	12658914	12657643	12630184	0.39	cps
Silver	109-1	12181850	12123120	12194342	12166437	0.31	cps
Sodium	23-2	54757221	54322014	54478141	54519125	0.40	cps
Strontium	86-1	3181714	3239135	3265790	3228880	1.33	cps
Strontium	88-1	27802164	27965065	28157895	27975041	0.64	cps
Sulfur	34-1	853921	855747	853428	854365	0.14	cps
Terbium	159-1	14048970	14230919	14134424	14138104	0.64	cps
Terbium	159-2	10099848	10077841	10263602	10147097	1.00	cps
Thallium	203-1	10676951	10762929	10773320	10737734	0.49	cps
Thallium	205-1	25546721	26086984	25837599	25823768	1.05	cps
Tin	118-1	8398869	8503372	8538613	8480285	0.86	cps
Titanium	47-1	12440637	12593779	12571634	12535350	0.66	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:36:58 DataFile Name : 011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	34476951	34648390	34711815	34612386	0.35	cps
Vanadium	51-2	3410956	3364465	3364715	3380045	0.79	cps
Yttrium	89-1	16115847	16272053	16214686	16200862	0.49	cps
Yttrium	89-2	4437258	4459314	4493337	4463303	0.63	cps
Zinc	66-2	7119858	7170816	7134258	7141644	0.37	cps
Zirconium	90-1	17560910	17522886	17616130	17566642	0.27	cps
Zirconium	91-1	3864159	3896623	3941589	3900791	1.00	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:39:44 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21283940	21021766	21178318	21161341	0.62	cps
Antimony	121-1	7886	7802	7589	7759	1.97	cps
Arsenic	75-2	337	363	350	350	3.81	cps
Barium	135-1	5284	5354	4958	5199	4.07	cps
Barium	137-1	9513	9073	9283	9290	2.37	cps
Beryllium	9-1	317	293	257	289	10.47	cps
Bismuth	209-1	7059576	7219225	7211441	7163414	1.26	cps
Bismuth	209-2	6464603	6411157	6433301	6436354	0.42	cps
Bromine	81-1	12115	12419	12392	12309	1.37	cps
Bromine	81-2	73	163	143	127	37.31	cps
Cadmium	108-1	130	143	167	147	12.65	cps
Cadmium	106-1	22584	22030	22234	22283	1.26	cps
Cadmium	111-1	2687	2519	2547	2585	3.49	cps
Calcium	43-1	13170786	13237110	13119550	13175815	0.45	cps
Calcium	44-1	217953310	214625790	214920690	215833263	0.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9797	8463	8062	8774	10.35	cps
Cobalt	59-2	17847	17243	17290	17460	1.92	cps
Copper	63-2	11805	11521	11565	11630	1.31	cps
Dysprosium	156-1	373	427	303	368	16.82	cps
Dysprosium	156-2	350	350	313	338	6.27	cps
Erbium	164-1	460	447	557	488	12.31	cps
Erbium	164-2	320	347	370	346	7.24	cps
Gadolinium	160-1	450	360	410	407	11.09	cps
Gadolinium	160-2	897	947	960	934	3.57	cps
Holmium	165-1	12957254	12845106	12924199	12908853	0.45	cps
Holmium	165-2	9829493	9841998	9950390	9873960	0.67	cps
Indium	115-1	9885449	9812347	9831407	9843068	0.39	cps
Indium	115-2	4018604	4013186	4044198	4025330	0.41	cps
Iron	56-2	893859453	894347533	884548467	890918485	0.62	cps
Iron	57-2	22422356	22549689	22479368	22483804	0.28	cps
Iron	54-2	48832359	48856119	48429869	48706116	0.49	cps
Krypton	83-1	630	430	367	476	28.90	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:39:44 DataFile Name : 012CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11085	10811	10891	10929	1.29	cps
Lead	207-1	9774	9160	9487	9473	3.24	cps
Lead	208-1	44853	43010	44008	43957	2.10	cps
Lithium	6-1	1718226	1685794	1614407	1672809	3.18	cps
Magnesium	24-2	167129724	167168641	166503091	166933819	0.22	cps
Manganese	55-2	15511	15668	15475	15551	0.66	cps
Molybdenum	94-1	8643	8279	8246	8389	2.62	cps
Molybdenum	95-1	7976	7709	7645	7777	2.25	cps
Molybdenum	96-1	17564	17304	16696	17188	2.59	cps
Molybdenum	97-1	5048	4534	4581	4721	6.01	cps
Molybdenum	98-1	12112	10837	11161	11370	5.83	cps
Neodymium	150-1	243	213	150	202	23.56	cps
Neodymium	150-2	120	140	123	128	8.39	cps
Nickel	60-2	8322	7925	8072	8107	2.48	cps
Phosphorus	31-2	477	500	493	490	2.45	cps
Potassium	39-2	121031015	120749448	120040578	120607014	0.42	cps
Rhodium	103-1	8696811	8700758	8773991	8723854	0.50	cps
Rhodium	103-2	5326013	5278150	5365156	5323106	0.82	cps
Scandium	45-1	6135581	6121763	6008390	6088578	1.15	cps
Scandium	45-2	524583	522811	516262	521218	0.84	cps
Selenium	82-1	529	460	467	485	7.87	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	373	393	353	373	5.36	cps
Silicon	28-1	1371425	1317553	1238409	1309129	5.11	cps
Silver	107-1	2660	2547	2294	2500	7.51	cps
Silver	109-1	2494	2204	2057	2251	9.87	cps
Sodium	23-2	286421109	283973882	284925276	285106756	0.43	cps
Strontium	86-1	9990	9953	9526	9823	2.62	cps
Strontium	88-1	81011	81296	78970	80426	1.58	cps
Sulfur	34-1	155006	157138	159522	157222	1.44	cps
Terbium	159-1	13159072	13156030	13133178	13149427	0.11	cps
Terbium	159-2	9734504	9714788	9728964	9726085	0.10	cps
Thallium	203-1	1787	1670	1600	1686	5.59	cps
Thallium	205-1	4284	3794	3654	3911	8.46	cps
Tin	118-1	2724	2604	2620	2649	2.45	cps
Titanium	47-1	1723	1607	1727	1686	4.05	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 13:39:44 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2644	2294	2357	2431	7.67	cps
Vanadium	51-2	797	853	730	793	7.78	cps
Yttrium	89-1	15958109	15848022	15737364	15847832	0.70	cps
Yttrium	89-2	4544802	4479023	4513339	4512388	0.73	cps
Zinc	66-2	10217	10867	10641	10575	3.12	cps
Zirconium	90-1	10861	10547	10404	10604	2.20	cps
Zirconium	91-1	2390	2284	2367	2347	2.39	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:05:23 DataFile Name : 016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	108308	108463	108533	108435	0.11	cps
Antimony	121-1	2208689	2213754	2259829	2227424	1.27	cps
Arsenic	75-2	120776	121287	120628	120897	0.29	cps
Barium	135-1	276803	281678	279847	279443	0.88	cps
Barium	137-1	481656	488602	485804	485354	0.72	cps
Beryllium	9-1	140838	143781	143421	142680	1.13	cps
Bismuth	209-1	9311434	9043979	9034760	9130058	1.72	cps
Bismuth	209-2	7746497	7782647	7741481	7756875	0.29	cps
Bromine	81-1	14130	14414	13920	14155	1.75	cps
Bromine	81-2	140	140	143	141	1.37	cps
Cadmium	108-1	18896	19346	18939	19060	1.30	cps
Cadmium	106-1	50156	50695	50698	50516	0.62	cps
Cadmium	111-1	266152	274389	273136	271225	1.64	cps
Calcium	43-1	58248	59934	59546	59243	1.49	cps
Calcium	44-1	957018	977375	971669	968687	1.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	450285	452689	445150	449375	0.86	cps
Cobalt	59-2	694126	692436	688387	691650	0.43	cps
Copper	63-2	479501	478472	476307	478093	0.34	cps
Dysprosium	156-1	13	20	27	20	33.35	cps
Dysprosium	156-2	43	27	30	33	26.45	cps
Erbium	164-1	87	73	77	79	8.80	cps
Erbium	164-2	77	27	53	52	47.91	cps
Gadolinium	160-1	103	107	117	109	6.37	cps
Gadolinium	160-2	720	767	700	729	4.69	cps
Holmium	165-1	14897143	14528923	14295591	14573886	2.08	cps
Holmium	165-2	10468580	10516562	10574704	10519948	0.51	cps
Indium	115-1	11997330	11568934	11551198	11705821	2.16	cps
Indium	115-2	4643853	4538275	4520023	4567384	1.46	cps
Iron	56-2	8205561	8221033	8098391	8174995	0.82	cps
Iron	57-2	210749	210946	209194	210296	0.46	cps
Iron	54-2	471177	472392	468964	470845	0.37	cps
Krypton	83-1	170	207	163	180	12.96	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:05:23 DataFile Name : 016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1692908	1725893	1721578	1713460	1.05	cps
Lead	207-1	1417399	1456105	1441463	1438322	1.36	cps
Lead	208-1	6840205	6950374	6971941	6920840	1.02	cps
Lithium	6-1	1746028	1689866	1644803	1693566	2.99	cps
Magnesium	24-2	424820	421692	423447	423320	0.37	cps
Manganese	55-2	351917	351043	349277	350746	0.38	cps
Molybdenum	94-1	677	523	600	600	12.78	cps
Molybdenum	95-1	453	577	590	540	13.95	cps
Molybdenum	96-1	703	760	810	758	7.04	cps
Molybdenum	97-1	347	353	337	346	2.43	cps
Molybdenum	98-1	873	880	927	893	3.25	cps
Neodymium	150-1	17	17	13	16	12.40	cps
Neodymium	150-2	7	7	10	8	24.71	cps
Nickel	60-2	177432	177409	178930	177924	0.49	cps
Phosphorus	31-2	290	390	287	322	18.22	cps
Potassium	39-2	1085840	1086887	1084830	1085852	0.09	cps
Rhodium	103-1	11180902	10878532	10891304	10983579	1.56	cps
Rhodium	103-2	6473210	6379643	6384029	6412294	0.82	cps
Scandium	45-1	6815288	6550900	6423275	6596488	3.03	cps
Scandium	45-2	557066	560368	560526	559320	0.35	cps
Selenium	82-1	35663	36207	36753	36208	1.50	cps
Selenium	77-2	4027	4144	4277	4150	3.02	cps
Selenium	78-2	14504	14641	14150	14432	1.75	cps
Silicon	28-1	1328941	1307708	1305177	1313942	0.99	cps
Silver	107-1	658033	675836	672136	668668	1.40	cps
Silver	109-1	626075	642578	641689	636781	1.46	cps
Sodium	23-2	1246457	1245643	1232975	1241692	0.61	cps
Strontium	86-1	1093	1130	1143	1122	2.31	cps
Strontium	88-1	7632	7439	7939	7670	3.29	cps
Sulfur	34-1	181980	181807	181962	181916	0.05	cps
Terbium	159-1	15205070	14795825	14699724	14900206	1.80	cps
Terbium	159-2	10528639	10505957	10541708	10525435	0.17	cps
Thallium	203-1	2226071	2262367	2207889	2232109	1.24	cps
Thallium	205-1	5245246	5394760	5319091	5319699	1.41	cps
Tin	118-1	1267	1143	1337	1249	7.84	cps
Titanium	47-1	127	133	1264	508	128.88	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P7
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:05:23 DataFile Name : 016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	53	60	37	50	24.03	cps
Vanadium	51-2	383625	384811	381491	383309	0.44	cps
Yttrium	89-1	18421472	17709824	17649425	17926907	2.40	cps
Yttrium	89-2	4964220	4895083	4996905	4952069	1.05	cps
Zinc	66-2	167875	164828	165553	166085	0.96	cps
Zirconium	90-1	1073	1173	1150	1132	4.62	cps
Zirconium	91-1	353	473	353	393	17.62	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:24:39 DataFile Name : 021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	137	97	87	107	24.80	cps
Antimony	121-1	107	150	137	131	16.93	cps
Arsenic	75-2	10	13	3	9	57.30	cps
Barium	135-1	67	50	17	44	57.28	cps
Barium	137-1	90	87	43	73	35.50	cps
Beryllium	9-1	87	67	63	72	17.48	cps
Bismuth	209-1	8847889	8837691	8812550	8832710	0.21	cps
Bismuth	209-2	7667911	7848226	7762813	7759650	1.16	cps
Bromine	81-1	14220	14477	14240	14313	1.00	cps
Bromine	81-2	110	90	97	99	10.30	cps
Cadmium	108-1	67	73	50	63	18.98	cps
Cadmium	106-1	24962	24531	24821	24771	0.89	cps
Cadmium	111-1	2479	2428	2484	2464	1.25	cps
Calcium	43-1	450	490	527	489	7.84	cps
Calcium	44-1	11544	11318	11238	11367	1.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3190	3334	3250	3258	2.21	cps
Cobalt	59-2	207	207	217	210	2.75	cps
Copper	63-2	2660	2710	2877	2749	4.13	cps
Dysprosium	156-1	10	13	3	9	57.30	cps
Dysprosium	156-2	0	0	13	4	173.21	cps
Erbium	164-1	60	60	60	60	0.00	cps
Erbium	164-2	53	73	57	61	17.53	cps
Gadolinium	160-1	120	80	90	97	21.53	cps
Gadolinium	160-2	777	633	823	744	13.30	cps
Holmium	165-1	14395367	14327961	14427850	14383726	0.35	cps
Holmium	165-2	10546604	10620588	10606386	10591193	0.37	cps
Indium	115-1	11630439	11424456	11568424	11541106	0.92	cps
Indium	115-2	4674826	4728708	4626236	4676590	1.10	cps
Iron	56-2	24336	24433	24583	24451	0.51	cps
Iron	57-2	1603	1613	1630	1616	0.83	cps
Iron	54-2	2934	2987	2794	2905	3.44	cps
Krypton	83-1	247	180	187	204	17.96	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:24:39 DataFile Name : 021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	467	483	463	471	2.27	cps
Lead	207-1	477	410	417	434	8.45	cps
Lead	208-1	1910	1940	1930	1927	0.79	cps
Lithium	6-1	1647985	1647985	1607046	1634339	1.45	cps
Magnesium	24-2	523	490	393	469	14.40	cps
Manganese	55-2	433	360	433	409	10.35	cps
Molybdenum	94-1	413	457	460	443	5.87	cps
Molybdenum	95-1	353	463	393	403	13.81	cps
Molybdenum	96-1	520	517	503	513	1.72	cps
Molybdenum	97-1	263	240	233	246	6.42	cps
Molybdenum	98-1	653	680	700	678	3.45	cps
Neodymium	150-1	0	7	3	3	100.05	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	967	940	1003	970	3.28	cps
Phosphorus	31-2	367	403	310	360	13.06	cps
Potassium	39-2	56819	57662	56956	57146	0.79	cps
Rhodium	103-1	11016628	10826932	10782332	10875297	1.14	cps
Rhodium	103-2	6647221	6652292	6576164	6625226	0.64	cps
Scandium	45-1	6606746	6642313	6665395	6638151	0.45	cps
Scandium	45-2	580650	582945	581260	581618	0.20	cps
Selenium	82-1	281	403	412	365	20.11	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	427	483	437	449	6.74	cps
Silicon	28-1	1399238	1419567	1424819	1414541	0.96	cps
Silver	107-1	247	263	237	249	5.41	cps
Silver	109-1	157	127	143	142	10.57	cps
Sodium	23-2	25895	26479	26593	26323	1.42	cps
Strontium	86-1	283	280	253	272	6.04	cps
Strontium	88-1	233	233	247	238	3.24	cps
Sulfur	34-1	191342	193198	191605	192048	0.52	cps
Terbium	159-1	14718614	14563309	14647318	14643080	0.53	cps
Terbium	159-2	10486617	10640682	10518387	10548562	0.77	cps
Thallium	203-1	300	273	220	264	15.41	cps
Thallium	205-1	700	560	613	624	11.32	cps
Tin	118-1	1143	1137	1123	1135	0.90	cps
Titanium	47-1	127	107	97	110	13.89	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P7
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:24:39 DataFile Name : 021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23	20	27	23	14.29	cps
Vanadium	51-2	37	30	10	26	54.31	cps
Yttrium	89-1	17892260	17570931	17759594	17740928	0.91	cps
Yttrium	89-2	5087919	5115290	5127615	5110275	0.40	cps
Zinc	66-2	327	407	310	348	14.86	cps
Zirconium	90-1	1007	913	913	944	5.71	cps
Zirconium	91-1	173	133	127	144	17.47	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:27:54 DataFile Name : 022ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18985003	18854189	18846372	18895188	0.41	cps
Antimony	121-1	11962	12285	12099	12115	1.34	cps
Arsenic	75-2	153	163	187	168	10.19	cps
Barium	135-1	4017	3991	4124	4044	1.75	cps
Barium	137-1	6595	6688	6618	6634	0.73	cps
Beryllium	9-1	503	490	413	469	10.36	cps
Bismuth	209-1	8634046	8698792	8749739	8694192	0.67	cps
Bismuth	209-2	7533403	7409780	7508220	7483801	0.87	cps
Bromine	81-1	15208	14497	14941	14882	2.41	cps
Bromine	81-2	347	400	300	349	14.34	cps
Cadmium	108-1	2110	1957	1780	1949	8.47	cps
Cadmium	106-1	23863	23499	23309	23557	1.20	cps
Cadmium	111-1	3556	3377	3318	3417	3.63	cps
Calcium	43-1	2752809	2731898	2742016	2742241	0.38	cps
Calcium	44-1	44497903	44300933	44563449	44454095	0.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	83697	83432	84223	83784	0.48	cps
Cobalt	59-2	8322	8046	8389	8252	2.21	cps
Copper	63-2	35402	35398	35064	35288	0.55	cps
Dysprosium	156-1	67	57	47	57	17.65	cps
Dysprosium	156-2	13	40	47	33	52.92	cps
Erbium	164-1	83	150	97	110	32.07	cps
Erbium	164-2	80	100	107	96	14.52	cps
Gadolinium	160-1	160	147	153	153	4.35	cps
Gadolinium	160-2	750	740	790	760	3.48	cps
Holmium	165-1	14638687	14612094	14818756	14689846	0.77	cps
Holmium	165-2	10820769	10595844	10642758	10686457	1.11	cps
Indium	115-1	11122240	10949347	11030405	11033997	0.78	cps
Indium	115-2	4316991	4308660	4332007	4319219	0.27	cps
Iron	56-2	376640621	373718528	374175674	374844941	0.42	cps
Iron	57-2	9500946	9380620	9415214	9432260	0.66	cps
Iron	54-2	20707418	20499076	20439411	20548635	0.68	cps
Krypton	83-1	140	167	157	154	8.72	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:27:54 DataFile Name : 022ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	44931	42617	42660	43402	3.05	cps
Lead	207-1	36743	33949	33605	34766	4.95	cps
Lead	208-1	173092	163042	160483	165539	4.03	cps
Lithium	6-1	1683769	1628249	1632685	1648235	1.87	cps
Magnesium	24-2	32961498	32648446	32591579	32733841	0.61	cps
Manganese	55-2	26193	26166	26160	26173	0.07	cps
Molybdenum	94-1	6014382	5999266	6020209	6011286	0.18	cps
Molybdenum	95-1	10444478	10534247	10517774	10498833	0.46	cps
Molybdenum	96-1	11265049	11342481	11461172	11356234	0.87	cps
Molybdenum	97-1	6513184	6581392	6546418	6546998	0.52	cps
Molybdenum	98-1	16896337	17106019	16999329	17000562	0.62	cps
Neodymium	150-1	70	63	53	62	13.48	cps
Neodymium	150-2	27	23	30	27	12.51	cps
Nickel	60-2	8903	9376	9216	9165	2.63	cps
Phosphorus	31-2	1040406	1035692	1031700	1035933	0.42	cps
Potassium	39-2	46543408	46387234	46387693	46439445	0.19	cps
Rhodium	103-1	9945839	9916223	9856992	9906351	0.46	cps
Rhodium	103-2	5895120	5894558	5950808	5913495	0.55	cps
Scandium	45-1	6242354	6129275	6146807	6172812	0.99	cps
Scandium	45-2	514411	511280	512981	512891	0.31	cps
Selenium	82-1	419	406	395	407	2.96	cps
Selenium	77-2	7	0	3	3	100.05	cps
Selenium	78-2	353	407	337	366	10.00	cps
Silicon	28-1	1241786	1206331	1191212	1213110	2.14	cps
Silver	107-1	713	567	533	604	15.84	cps
Silver	109-1	743	490	477	570	26.36	cps
Sodium	23-2	57211639	56565647	56251261	56676182	0.86	cps
Strontium	86-1	114437	113261	114488	114062	0.61	cps
Strontium	88-1	997578	1001235	1006894	1001902	0.47	cps
Sulfur	34-1	4143396	4034149	4039037	4072194	1.52	cps
Terbium	159-1	14846636	14781292	14851443	14826457	0.26	cps
Terbium	159-2	10573779	10486767	10645789	10568778	0.75	cps
Thallium	203-1	2064	1990	2064	2039	2.08	cps
Thallium	205-1	4938	4764	4591	4764	3.64	cps
Tin	118-1	3280	3197	2647	3041	11.32	cps
Titanium	47-1	2738632	2687075	2713129	2712945	0.95	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P7
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:27:54 DataFile Name : 022ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	567	607	550	574	5.07	cps
Vanadium	51-2	780	807	787	791	1.75	cps
Yttrium	89-1	17298020	16972387	16939506	17069971	1.16	cps
Yttrium	89-2	4706094	4680320	4728085	4704833	0.51	cps
Zinc	66-2	8579	8502	8826	8636	1.96	cps
Zirconium	90-1	1027	1117	1170	1104	6.56	cps
Zirconium	91-1	163	150	187	167	11.14	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:31:33 DataFile Name : 023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19001549	18692298	18679728	18791192	0.97	cps
Antimony	121-1	230086	233119	232473	231893	0.69	cps
Arsenic	75-2	11378	11505	11288	11390	0.96	cps
Barium	135-1	60183	60678	61047	60636	0.71	cps
Barium	137-1	103312	105020	104873	104402	0.91	cps
Beryllium	9-1	26977	26569	26092	26546	1.67	cps
Bismuth	209-1	8887307	8799563	8995237	8894036	1.10	cps
Bismuth	209-2	7374732	7417563	7366990	7386428	0.37	cps
Bromine	81-1	15115	15625	15582	15440	1.83	cps
Bromine	81-2	293	343	380	339	12.84	cps
Cadmium	108-1	5391	5481	5331	5401	1.40	cps
Cadmium	106-1	29049	29002	28722	28924	0.61	cps
Cadmium	111-1	54547	54004	55111	54554	1.02	cps
Calcium	43-1	2735005	2770842	2774327	2760058	0.79	cps
Calcium	44-1	45138331	44984228	44737861	44953473	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	163909	163417	162299	163208	0.51	cps
Cobalt	59-2	132973	132707	132152	132611	0.32	cps
Copper	63-2	118192	118484	118380	118352	0.13	cps
Dysprosium	156-1	73	60	53	62	16.37	cps
Dysprosium	156-2	27	40	33	33	20.00	cps
Erbium	164-1	137	97	120	118	17.06	cps
Erbium	164-2	103	80	60	81	26.74	cps
Gadolinium	160-1	140	160	173	158	10.64	cps
Gadolinium	160-2	643	650	637	643	1.04	cps
Holmium	165-1	14984548	15089832	15015791	15030057	0.36	cps
Holmium	165-2	10711881	10791088	10626269	10709746	0.77	cps
Indium	115-1	11263756	11075376	11262275	11200469	0.97	cps
Indium	115-2	4310905	4328201	4350410	4329839	0.46	cps
Iron	56-2	375963368	373262021	373331794	374185728	0.41	cps
Iron	57-2	9362664	9317214	9437832	9372570	0.65	cps
Iron	54-2	20435029	20295785	20250648	20327154	0.47	cps
Krypton	83-1	187	170	157	171	8.78	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:31:33 DataFile Name : 023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	217478	217120	216422	217007	0.25	cps
Lead	207-1	181768	181788	180846	181467	0.30	cps
Lead	208-1	844691	849344	845974	846670	0.28	cps
Lithium	6-1	1638846	1612221	1615746	1622271	0.89	cps
Magnesium	24-2	32421808	32313397	32424023	32386409	0.20	cps
Manganese	55-2	90312	90802	89380	90164	0.80	cps
Molybdenum	94-1	6048189	6101699	6101552	6083813	0.51	cps
Molybdenum	95-1	10585203	10715503	10688066	10662924	0.64	cps
Molybdenum	96-1	11358204	11583984	11621189	11521125	1.24	cps
Molybdenum	97-1	6621471	6625098	6714674	6653747	0.79	cps
Molybdenum	98-1	17051096	17385200	17279743	17238680	0.99	cps
Neodymium	150-1	57	60	50	56	9.17	cps
Neodymium	150-2	57	50	40	49	17.16	cps
Nickel	60-2	39753	40103	39385	39747	0.90	cps
Phosphorus	31-2	1038075	1032544	1031041	1033887	0.36	cps
Potassium	39-2	45961653	46403711	46088419	46151261	0.49	cps
Rhodium	103-1	10020581	10065689	10042477	10042916	0.22	cps
Rhodium	103-2	6015549	5894436	5896050	5935345	1.17	cps
Scandium	45-1	6266584	6188064	6185794	6213480	0.74	cps
Scandium	45-2	517915	517142	515574	516877	0.23	cps
Selenium	82-1	3642	3714	3693	3683	1.01	cps
Selenium	77-2	413	357	337	369	10.78	cps
Selenium	78-2	1633	1640	1663	1646	0.96	cps
Silicon	28-1	1236289	1245393	1221892	1234525	0.96	cps
Silver	107-1	255675	258133	259669	257826	0.78	cps
Silver	109-1	241353	247564	246770	245229	1.38	cps
Sodium	23-2	56166576	56032719	55869724	56023006	0.27	cps
Strontium	86-1	116241	117232	116809	116761	0.43	cps
Strontium	88-1	1021099	1028653	1032211	1027321	0.55	cps
Sulfur	34-1	4017454	4095837	4066047	4059779	0.97	cps
Terbium	159-1	15243600	15200507	15153753	15199287	0.30	cps
Terbium	159-2	10620083	10522875	10511759	10551572	0.56	cps
Thallium	203-1	218362	221522	219403	219762	0.73	cps
Thallium	205-1	522357	528596	528058	526337	0.66	cps
Tin	118-1	2414	2360	2504	2426	2.99	cps
Titanium	47-1	2726008	2696071	2713895	2711991	0.56	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P7
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:31:33 DataFile Name : 023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	653	530	543	576	11.76	cps
Vanadium	51-2	71240	70969	71833	71347	0.62	cps
Yttrium	89-1	17315430	17274528	17293634	17294531	0.12	cps
Yttrium	89-2	4757559	4717587	4714701	4729949	0.51	cps
Zinc	66-2	24116	24240	24029	24128	0.44	cps
Zirconium	90-1	1133	1057	1087	1092	3.54	cps
Zirconium	91-1	220	187	230	212	10.69	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:34:34 DataFile Name : 024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10151252	10107307	10252978	10170512	0.73	cps
Antimony	121-1	5013061	5160119	5122321	5098500	1.50	cps
Arsenic	75-2	254723	252611	254473	253935	0.45	cps
Barium	135-1	6610816	6870848	6753684	6745116	1.93	cps
Barium	137-1	11343204	11852821	11690459	11628828	2.24	cps
Beryllium	9-1	581224	607359	607764	598783	2.54	cps
Bismuth	209-1	8474938	8449547	8475708	8466731	0.18	cps
Bismuth	209-2	7117100	7106944	7035268	7086437	0.63	cps
Bromine	81-1	14214	14080	13763	14019	1.65	cps
Bromine	81-2	107	167	137	137	21.95	cps
Cadmium	108-1	92130	94166	95270	93855	1.70	cps
Cadmium	106-1	151373	157483	156769	155208	2.15	cps
Cadmium	111-1	1132341	1161311	1159454	1151035	1.41	cps
Calcium	43-1	6438440	6696875	6619730	6585015	2.01	cps
Calcium	44-1	105235402	109287802	108600012	107707738	2.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1929325	1935152	1937287	1933922	0.21	cps
Cobalt	59-2	2892800	2883634	2916694	2897710	0.59	cps
Copper	63-2	20549953	20418070	20310878	20426300	0.59	cps
Dysprosium	156-1	443	450	423	439	3.16	cps
Dysprosium	156-2	653	570	573	599	7.88	cps
Erbium	164-1	333	350	383	356	7.16	cps
Erbium	164-2	237	263	280	260	8.41	cps
Gadolinium	160-1	337	313	317	322	3.92	cps
Gadolinium	160-2	850	793	767	803	5.30	cps
Holmium	165-1	14424572	14434579	14464318	14441156	0.14	cps
Holmium	165-2	10505734	10378602	10382663	10422333	0.69	cps
Indium	115-1	10649840	10642003	10593170	10628338	0.29	cps
Indium	115-2	4117525	4135015	4089715	4114085	0.56	cps
Iron	56-2	448924527	445730620	448201993	447619047	0.37	cps
Iron	57-2	11287924	11195001	11231817	11238247	0.42	cps
Iron	54-2	24447900	24424440	24470810	24447716	0.09	cps
Krypton	83-1	163	247	200	203	20.54	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:34:34 DataFile Name : 024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20236073	20893115	20993069	20707419	1.99	cps
Lead	207-1	17874094	18795950	18831000	18500348	2.93	cps
Lead	208-1	81751003	84965570	85228818	83981797	2.31	cps
Lithium	6-1	1598957	1593322	1579672	1590650	0.62	cps
Magnesium	24-2	80742892	80572197	81074425	80796505	0.32	cps
Manganese	55-2	15363755	15263912	15264547	15297405	0.38	cps
Molybdenum	94-1	17584996	18165641	18121941	17957526	1.80	cps
Molybdenum	95-1	25116495	25887758	25877074	25627109	1.73	cps
Molybdenum	96-1	27763851	28522102	28426126	28237360	1.46	cps
Molybdenum	97-1	15750334	16231993	16066396	16016241	1.53	cps
Molybdenum	98-1	40159305	42278254	41467109	41301556	2.59	cps
Neodymium	150-1	487	570	520	526	7.98	cps
Neodymium	150-2	167	217	203	196	13.24	cps
Nickel	60-2	706464	695565	701334	701121	0.78	cps
Phosphorus	31-2	99584	99467	98926	99326	0.35	cps
Potassium	39-2	57605592	57047496	57695531	57449540	0.61	cps
Rhodium	103-1	9503618	9629959	9561691	9565089	0.66	cps
Rhodium	103-2	5677509	5625331	5659420	5654087	0.47	cps
Scandium	45-1	6062877	6028501	6048162	6046513	0.29	cps
Scandium	45-2	515573	513138	512233	513648	0.34	cps
Selenium	82-1	72954	74713	73844	73837	1.19	cps
Selenium	77-2	8379	8302	8583	8421	1.72	cps
Selenium	78-2	27696	28357	28123	28059	1.20	cps
Silicon	28-1	33620920	34581687	34675771	34292793	1.70	cps
Silver	107-1	6106340	6203992	6220980	6177104	1.00	cps
Silver	109-1	5814418	5991918	5941061	5915799	1.55	cps
Sodium	23-2	137708901	137744688	137822025	137758538	0.04	cps
Strontium	86-1	1583829	1640263	1621632	1615241	1.78	cps
Strontium	88-1	13973357	14362687	14359903	14231982	1.57	cps
Sulfur	34-1	499185	506322	507434	504314	0.89	cps
Terbium	159-1	14568661	14596695	14561263	14575540	0.13	cps
Terbium	159-2	10393145	10354839	10270718	10339567	0.61	cps
Thallium	203-1	5099573	5403548	5245918	5249680	2.90	cps
Thallium	205-1	12423339	12806858	12628866	12619687	1.52	cps
Tin	118-1	4116498	4244555	4217877	4192977	1.61	cps
Titanium	47-1	6282261	6355864	6451498	6363207	1.33	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P7
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:34:34 DataFile Name : 024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16521541	17111173	17094788	16909167	1.99	cps
Vanadium	51-2	1708758	1710316	1722839	1713971	0.45	cps
Yttrium	89-1	16813279	16671012	16833119	16772470	0.53	cps
Yttrium	89-2	4654009	4629589	4591181	4624926	0.68	cps
Zinc	66-2	3448490	3457006	3471647	3459048	0.34	cps
Zirconium	90-1	8704311	8893434	8926782	8841509	1.36	cps
Zirconium	91-1	1930267	1985319	1983852	1966480	1.60	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:41:15 DataFile Name : 026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517	500	470	496	4.77	cps
Antimony	121-1	507	490	450	482	6.04	cps
Arsenic	75-2	3	23	13	13	75.02	cps
Barium	135-1	217	93	130	147	43.18	cps
Barium	137-1	320	217	223	253	22.83	cps
Beryllium	9-1	73	117	70	87	30.04	cps
Bismuth	209-1	9165084	9209976	9323589	9232883	0.88	cps
Bismuth	209-2	8030622	7852034	7989685	7957447	1.18	cps
Bromine	81-1	14007	14110	13733	13950	1.40	cps
Bromine	81-2	70	100	83	84	17.80	cps
Cadmium	108-1	47	63	57	56	15.09	cps
Cadmium	106-1	24080	23990	24147	24072	0.33	cps
Cadmium	111-1	2422	2385	2415	2407	0.82	cps
Calcium	43-1	590	577	553	573	3.24	cps
Calcium	44-1	13620	12896	12102	12872	5.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3167	3347	3180	3231	3.10	cps
Cobalt	59-2	193	197	173	188	6.72	cps
Copper	63-2	3677	3754	3801	3744	1.66	cps
Dysprosium	156-1	10	3	13	9	57.30	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	87	97	57	80	26.02	cps
Erbium	164-2	47	63	33	48	31.46	cps
Gadolinium	160-1	107	107	107	107	0.00	cps
Gadolinium	160-2	600	700	750	683	11.18	cps
Holmium	165-1	14679329	14727559	14629136	14678675	0.34	cps
Holmium	165-2	10721850	10594071	10582024	10632649	0.73	cps
Indium	115-1	11516997	11761376	11533264	11603879	1.18	cps
Indium	115-2	4623080	4560186	4500707	4561324	1.34	cps
Iron	56-2	35241	34797	34566	34868	0.98	cps
Iron	57-2	1540	1757	1757	1685	7.43	cps
Iron	54-2	3487	3370	3410	3423	1.73	cps
Krypton	83-1	153	157	147	152	3.35	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:41:15 DataFile Name : 026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1160	1153	1203	1172	2.32	cps
Lead	207-1	1120	1043	1027	1063	4.68	cps
Lead	208-1	4907	4654	4564	4708	3.78	cps
Lithium	6-1	1640817	1670334	1644438	1651863	0.97	cps
Magnesium	24-2	1610	1570	1597	1592	1.28	cps
Manganese	55-2	743	737	707	729	2.68	cps
Molybdenum	94-1	1607	933	883	1141	35.42	cps
Molybdenum	95-1	2547	963	970	1493	61.09	cps
Molybdenum	96-1	2231	1127	1193	1517	40.82	cps
Molybdenum	97-1	1000	587	583	723	33.14	cps
Molybdenum	98-1	2494	1580	1507	1860	29.58	cps
Neodymium	150-1	10	13	0	8	89.21	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	913	977	913	934	3.91	cps
Phosphorus	31-2	313	297	333	314	5.84	cps
Potassium	39-2	52136	51918	53096	52383	1.20	cps
Rhodium	103-1	10690835	10682326	10779665	10717609	0.50	cps
Rhodium	103-2	6492264	6399205	6388012	6426494	0.89	cps
Scandium	45-1	6309327	6393986	6308094	6337135	0.78	cps
Scandium	45-2	541096	539896	539829	540274	0.13	cps
Selenium	82-1	387	333	406	376	10.07	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	330	403	433	389	13.67	cps
Silicon	28-1	1212788	1215493	1223478	1217253	0.46	cps
Silver	107-1	373	303	340	339	10.33	cps
Silver	109-1	337	343	237	306	19.56	cps
Sodium	23-2	41369	40607	40476	40817	1.18	cps
Strontium	86-1	353	337	387	359	7.10	cps
Strontium	88-1	954	423	393	590	53.41	cps
Sulfur	34-1	164406	164535	166003	164982	0.54	cps
Terbium	159-1	14923434	15078156	14864943	14955511	0.74	cps
Terbium	159-2	10531963	10646859	10483405	10554076	0.80	cps
Thallium	203-1	947	853	910	903	5.21	cps
Thallium	205-1	2274	2064	2174	2170	4.84	cps
Tin	118-1	1383	1347	1470	1400	4.52	cps
Titanium	47-1	470	210	227	302	48.16	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P7
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:41:15 DataFile Name : 026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	183	210	220	204	9.27	cps
Vanadium	51-2	37	33	33	34	5.60	cps
Yttrium	89-1	17367613	17911920	17370841	17550124	1.79	cps
Yttrium	89-2	4900055	4803890	4815105	4839683	1.09	cps
Zinc	66-2	383	277	320	327	16.42	cps
Zirconium	90-1	1500	913	1063	1159	26.31	cps
Zirconium	91-1	290	197	203	230	22.64	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BL Instrumnet Name : P7
Client Sample ID : PBS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:58:02 DataFile Name : 030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	177	170	190	179	5.69	cps
Antimony	121-1	113	93	90	99	12.77	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	30	47	17	31	48.31	cps
Barium	137-1	57	83	93	78	24.37	cps
Beryllium	9-1	67	63	63	64	2.99	cps
Bismuth	209-1	9155615	9222629	9007600	9128615	1.21	cps
Bismuth	209-2	7846311	7857633	7872576	7858840	0.17	cps
Bromine	81-1	14697	14727	14521	14648	0.76	cps
Bromine	81-2	133	137	70	113	33.15	cps
Cadmium	108-1	57	47	60	54	12.74	cps
Cadmium	106-1	24921	24988	24701	24870	0.60	cps
Cadmium	111-1	2476	2479	2448	2468	0.70	cps
Calcium	43-1	420	443	463	442	4.90	cps
Calcium	44-1	10043	9957	9743	9914	1.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2884	3060	3027	2990	3.14	cps
Cobalt	59-2	210	200	207	206	2.48	cps
Copper	63-2	2587	2637	2584	2602	1.15	cps
Dysprosium	156-1	10	30	10	17	69.28	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	97	110	63	90	26.71	cps
Erbium	164-2	67	53	73	64	15.80	cps
Gadolinium	160-1	117	120	97	111	11.36	cps
Gadolinium	160-2	693	590	680	654	8.59	cps
Holmium	165-1	14599094	14699498	14813629	14704073	0.73	cps
Holmium	165-2	10755668	10788304	10724863	10756278	0.29	cps
Indium	115-1	11723267	11801029	11826524	11783607	0.46	cps
Indium	115-2	4700804	4636016	4564661	4633827	1.47	cps
Iron	56-2	23712	23455	23762	23643	0.70	cps
Iron	57-2	1640	1580	1533	1585	3.38	cps
Iron	54-2	2794	3054	2904	2917	4.48	cps
Krypton	83-1	193	187	200	193	3.45	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BL Instrumnet Name : P7
Client Sample ID : PBS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:58:02 DataFile Name : 030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	553	517	483	518	6.76	cps
Lead	207-1	493	460	453	469	4.57	cps
Lead	208-1	2180	2143	2067	2130	2.71	cps
Lithium	6-1	1625089	1612018	1601647	1612918	0.73	cps
Magnesium	24-2	563	533	633	577	8.90	cps
Manganese	55-2	283	377	317	326	14.53	cps
Molybdenum	94-1	520	417	430	456	12.34	cps
Molybdenum	95-1	357	397	520	424	20.06	cps
Molybdenum	96-1	503	480	540	508	5.96	cps
Molybdenum	97-1	323	250	250	274	15.43	cps
Molybdenum	98-1	713	730	740	728	1.85	cps
Neodymium	150-1	7	10	7	8	24.71	cps
Neodymium	150-2	17	3	7	9	78.08	cps
Nickel	60-2	957	940	930	942	1.43	cps
Phosphorus	31-2	350	283	337	323	10.91	cps
Potassium	39-2	55129	56076	55213	55473	0.94	cps
Rhodium	103-1	11016716	11038559	11051349	11035542	0.16	cps
Rhodium	103-2	6688786	6716454	6547074	6650771	1.37	cps
Scandium	45-1	6587505	6699196	6644570	6643757	0.84	cps
Scandium	45-2	568138	569777	569577	569164	0.16	cps
Selenium	82-1	470	347	384	400	15.76	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	460	417	390	422	8.37	cps
Silicon	28-1	1323562	1335235	1340327	1333041	0.64	cps
Silver	107-1	207	217	203	209	3.32	cps
Silver	109-1	153	97	100	117	27.26	cps
Sodium	23-2	27859	28840	28607	28435	1.80	cps
Strontium	86-1	313	300	390	334	14.52	cps
Strontium	88-1	113	187	157	152	24.22	cps
Sulfur	34-1	183608	184809	185683	184700	0.56	cps
Terbium	159-1	15165769	15183589	15129831	15159730	0.18	cps
Terbium	159-2	10597870	10631444	10703190	10644168	0.51	cps
Thallium	203-1	503	553	517	524	4.94	cps
Thallium	205-1	1273	1150	1147	1190	6.07	cps
Tin	118-1	973	827	947	916	8.53	cps
Titanium	47-1	87	113	43	81	43.56	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BL Instrumnet Name : P7
Client Sample ID : PBS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 14:58:02 DataFile Name : 030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	27	27	60	38	50.93	cps
Vanadium	51-2	40	20	17	26	49.38	cps
Yttrium	89-1	17887679	17923087	17803512	17871426	0.34	cps
Yttrium	89-2	5098287	5078953	5095043	5090761	0.20	cps
Zinc	66-2	240	260	267	256	5.43	cps
Zirconium	90-1	930	960	883	924	4.18	cps
Zirconium	91-1	110	123	140	124	12.08	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BS Instrumnet Name : P7
Client Sample ID : LCS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:01:16 DataFile Name : 031LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2019835	2024261	2021810	2021969	0.11	cps
Antimony	121-1	5332497	5392756	5467332	5397528	1.25	cps
Arsenic	75-2	264827	264432	263706	264322	0.21	cps
Barium	135-1	7058323	7069083	7062505	7063304	0.08	cps
Barium	137-1	12142886	12351751	12376330	12290322	1.04	cps
Beryllium	9-1	652394	659533	665988	659305	1.03	cps
Bismuth	209-1	8504741	9061253	7649888	8405294	8.46	cps
Bismuth	209-2	7486368	7584621	7594757	7555248	0.79	cps
Bromine	81-1	14030	13420	13606	13685	2.29	cps
Bromine	81-2	113	93	147	118	22.88	cps
Cadmium	108-1	102807	103069	104197	103358	0.71	cps
Cadmium	106-1	168674	168895	166613	168061	0.75	cps
Cadmium	111-1	1262553	1276824	1269830	1269736	0.56	cps
Calcium	43-1	1448934	1396649	1405548	1417044	1.97	cps
Calcium	44-1	22816445	22681945	22689524	22729304	0.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1964607	1939875	1935879	1946787	0.80	cps
Cobalt	59-2	3051452	3055155	3053509	3053372	0.06	cps
Copper	63-2	22034041	22026881	21904773	21988565	0.33	cps
Dysprosium	156-1	347	320	300	322	7.26	cps
Dysprosium	156-2	493	507	463	488	4.55	cps
Erbium	164-1	113	183	130	142	25.71	cps
Erbium	164-2	113	107	97	106	7.95	cps
Gadolinium	160-1	200	190	150	180	14.70	cps
Gadolinium	160-2	690	710	697	699	1.46	cps
Holmium	165-1	14007969	14540951	12410566	13653162	8.12	cps
Holmium	165-2	10532803	10532346	10617977	10561042	0.47	cps
Indium	115-1	10702265	11176479	9433930	10437558	8.63	cps
Indium	115-2	4204160	4217356	4205658	4209058	0.17	cps
Iron	56-2	91641555	90918462	91466405	91342141	0.41	cps
Iron	57-2	2305191	2293614	2328974	2309259	0.78	cps
Iron	54-2	5007739	5025934	5064149	5032607	0.57	cps
Krypton	83-1	163	167	173	168	3.03	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BS Instrumnet Name : P7
Client Sample ID : LCS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:01:16 DataFile Name : 031LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21560811	22228570	22295957	22028446	1.84	cps
Lead	207-1	19278632	19827048	19863484	19656388	1.67	cps
Lead	208-1	87193337	89929087	90253060	89125162	1.89	cps
Lithium	6-1	1612532	1657745	1339700	1536659	11.20	cps
Magnesium	24-2	16294553	16003661	16063924	16120712	0.95	cps
Manganese	55-2	15703629	15545578	15563965	15604391	0.55	cps
Molybdenum	94-1	18876714	18909101	18768192	18851336	0.39	cps
Molybdenum	95-1	26905840	27206890	26741153	26951295	0.88	cps
Molybdenum	96-1	29679625	29951079	29603311	29744672	0.61	cps
Molybdenum	97-1	16757374	16766089	16785537	16769666	0.09	cps
Molybdenum	98-1	44016088	43414341	43282689	43571039	0.90	cps
Neodymium	150-1	487	633	420	513	21.26	cps
Neodymium	150-2	120	120	137	126	7.67	cps
Nickel	60-2	747978	744225	738511	743571	0.64	cps
Phosphorus	31-2	100437	99397	98719	99517	0.87	cps
Potassium	39-2	11571653	11386407	11419798	11459286	0.86	cps
Rhodium	103-1	9944330	10232051	8709268	9628550	8.40	cps
Rhodium	103-2	5922139	5847591	5885786	5885172	0.63	cps
Scandium	45-1	6064250	6283149	5317893	5888431	8.59	cps
Scandium	45-2	499384	502248	500088	500573	0.30	cps
Selenium	82-1	81874	81464	81802	81713	0.27	cps
Selenium	77-2	8366	8579	8643	8529	1.70	cps
Selenium	78-2	30324	29940	30097	30121	0.64	cps
Silicon	28-1	38283544	37447857	37408846	37713416	1.31	cps
Silver	107-1	6846822	6898873	6847504	6864400	0.43	cps
Silver	109-1	6548314	6498898	6553137	6533450	0.46	cps
Sodium	23-2	28444584	28233512	28193646	28290581	0.48	cps
Strontium	86-1	1711218	1710003	1704501	1708574	0.21	cps
Strontium	88-1	14873705	14798435	14910022	14860721	0.38	cps
Sulfur	34-1	558723	554105	548551	553793	0.92	cps
Terbium	159-1	14219860	15092164	12774462	14028829	8.34	cps
Terbium	159-2	10357018	10258513	10353544	10323025	0.54	cps
Thallium	203-1	5480843	5498813	5654319	5544658	1.72	cps
Thallium	205-1	13310993	13185368	13490514	13328958	1.15	cps
Tin	118-1	4496781	4470066	4465319	4477389	0.38	cps
Titanium	47-1	6687083	6688798	6622222	6666034	0.57	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165957BS Instrumnet Name : P7
Client Sample ID : LCS957 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:01:16 DataFile Name : 031LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16713316	17100030	17560243	17124530	2.48	cps
Vanadium	51-2	1746573	1747968	1732203	1742248	0.50	cps
Yttrium	89-1	16679636	17296829	14697671	16224712	8.37	cps
Yttrium	89-2	4554192	4598664	4540449	4564435	0.67	cps
Zinc	66-2	3809860	3748012	3748304	3768725	0.95	cps
Zirconium	90-1	9294245	9230620	9341895	9288920	0.60	cps
Zirconium	91-1	2061829	2046308	2084826	2064321	0.94	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:03:56 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2092242	2126914	2113772	2110976	0.83	cps
Antimony	121-1	2160	1927	1893	1993	7.29	cps
Arsenic	75-2	2137	2174	2217	2176	1.84	cps
Barium	135-1	129354	131006	130609	130323	0.66	cps
Barium	137-1	228399	226566	231311	228759	1.05	cps
Beryllium	9-1	1133	1007	1027	1056	6.45	cps
Bismuth	209-1	9381321	9547380	9273099	9400600	1.47	cps
Bismuth	209-2	8034514	8018093	8019821	8024143	0.11	cps
Bromine	81-1	14834	14754	15118	14902	1.28	cps
Bromine	81-2	463	467	497	476	3.86	cps
Cadmium	108-1	190	153	213	186	16.30	cps
Cadmium	106-1	24200	24504	25162	24622	2.00	cps
Cadmium	111-1	2554	2600	2554	2569	1.04	cps
Calcium	43-1	19733	20454	20844	20344	2.77	cps
Calcium	44-1	326494	331879	338754	332376	1.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	95483	94721	96244	95483	0.80	cps
Cobalt	59-2	53338	53294	53819	53484	0.55	cps
Copper	63-2	63149	63273	62777	63066	0.41	cps
Dysprosium	156-1	30977	31272	31034	31094	0.50	cps
Dysprosium	156-2	28108	28319	28486	28304	0.67	cps
Erbium	164-1	26378	25877	26398	26218	1.13	cps
Erbium	164-2	19130	18950	19434	19171	1.28	cps
Gadolinium	160-1	28906	28770	28780	28819	0.26	cps
Gadolinium	160-2	23233	22405	22498	22712	2.00	cps
Holmium	165-1	14922402	14816812	14861133	14866782	0.36	cps
Holmium	165-2	10956764	10841414	10782357	10860178	0.82	cps
Indium	115-1	11606768	11575778	11506821	11563123	0.44	cps
Indium	115-2	4540923	4533845	4575724	4550164	0.49	cps
Iron	56-2	83727559	83462695	83317000	83502418	0.25	cps
Iron	57-2	2090454	2096372	2090147	2092324	0.17	cps
Iron	54-2	4553418	4597201	4559534	4570051	0.52	cps
Krypton	83-1	233	237	230	233	1.43	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:03:56 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	71436	70418	70589	70814	0.77	cps
Lead	207-1	59031	57846	58160	58346	1.05	cps
Lead	208-1	277577	274730	274670	275659	0.60	cps
Lithium	6-1	1696819	1735582	1711829	1714744	1.14	cps
Magnesium	24-2	725705	726774	728961	727147	0.23	cps
Manganese	55-2	889187	888592	890694	889491	0.12	cps
Molybdenum	94-1	43123	43518	42475	43039	1.22	cps
Molybdenum	95-1	6772	6408	6221	6467	4.33	cps
Molybdenum	96-1	15178	14444	14521	14714	2.74	cps
Molybdenum	97-1	4357	4267	3951	4192	5.10	cps
Molybdenum	98-1	11448	10347	9927	10574	7.43	cps
Neodymium	150-1	54341	55288	56221	55283	1.70	cps
Neodymium	150-2	35107	35000	34562	34890	0.83	cps
Nickel	60-2	17347	17464	17737	17516	1.14	cps
Phosphorus	31-2	3194	3047	3240	3160	3.19	cps
Potassium	39-2	965278	976176	976332	972595	0.65	cps
Rhodium	103-1	10560844	10754980	10631744	10649189	0.92	cps
Rhodium	103-2	6471842	6363027	6446647	6427172	0.89	cps
Scandium	45-1	6259451	6372404	6442488	6358114	1.45	cps
Scandium	45-2	544449	544885	548680	546005	0.43	cps
Selenium	82-1	388	391	386	388	0.58	cps
Selenium	77-2	97	77	57	77	26.09	cps
Selenium	78-2	470	507	480	486	3.90	cps
Silicon	28-1	3078919	2658787	2739526	2825744	7.89	cps
Silver	107-1	1867	1547	1413	1609	14.48	cps
Silver	109-1	1767	1277	1127	1390	24.08	cps
Sodium	23-2	79219	77882	78210	78437	0.89	cps
Strontium	86-1	11101	11121	11438	11220	1.68	cps
Strontium	88-1	95552	96038	96383	95991	0.43	cps
Sulfur	34-1	156522	157374	160186	158027	1.21	cps
Terbium	159-1	15303949	15376166	15220561	15300225	0.51	cps
Terbium	159-2	10779650	10607371	10600686	10662569	0.95	cps
Thallium	203-1	3187	3097	2910	3065	4.61	cps
Thallium	205-1	7669	7085	6875	7210	5.70	cps
Tin	118-1	3147	3160	2924	3077	4.32	cps
Titanium	47-1	557626	567895	570245	565255	1.19	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:03:56 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	44464	44778	45742	44995	1.48	cps
Vanadium	51-2	125345	125082	126666	125698	0.68	cps
Yttrium	89-1	17628167	17894672	17798556	17773798	0.76	cps
Yttrium	89-2	5030063	4924622	5016158	4990281	1.15	cps
Zinc	66-2	22200	21773	22283	22085	1.24	cps
Zirconium	90-1	104377	106238	107815	106143	1.62	cps
Zirconium	91-1	23262	23476	23813	23517	1.18	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DUPDLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:07:07 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2136405	2103273	2138108	2125929	0.92	cps
Antimony	121-1	697	583	533	604	13.85	cps
Arsenic	75-2	2350	2274	2147	2257	4.55	cps
Barium	135-1	131457	132506	132449	132137	0.45	cps
Barium	137-1	228521	229557	229303	229127	0.24	cps
Beryllium	9-1	1063	887	1040	997	9.63	cps
Bismuth	209-1	9067205	9254992	9259737	9193978	1.19	cps
Bismuth	209-2	7983962	8026002	8063672	8024545	0.50	cps
Bromine	81-1	15238	15648	15602	15496	1.45	cps
Bromine	81-2	567	567	537	557	3.11	cps
Cadmium	108-1	170	117	180	156	21.89	cps
Cadmium	106-1	23399	24835	24925	24386	3.51	cps
Cadmium	111-1	2314	2482	2423	2406	3.53	cps
Calcium	43-1	20534	20674	20991	20733	1.13	cps
Calcium	44-1	337930	338697	339831	338820	0.28	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96667	97707	96734	97036	0.60	cps
Cobalt	59-2	53612	54405	54465	54161	0.88	cps
Copper	63-2	62721	62821	62694	62745	0.11	cps
Dysprosium	156-1	32150	31455	30911	31505	1.97	cps
Dysprosium	156-2	28409	28499	28172	28360	0.60	cps
Erbium	164-1	26776	26599	26168	26514	1.18	cps
Erbium	164-2	19227	19310	19968	19501	2.08	cps
Gadolinium	160-1	29344	28466	29678	29163	2.15	cps
Gadolinium	160-2	22455	23039	22748	22747	1.28	cps
Holmium	165-1	14325044	15020710	15068215	14804656	2.81	cps
Holmium	165-2	10910231	10842062	10888080	10880124	0.32	cps
Indium	115-1	11125366	11773060	11700795	11533074	3.08	cps
Indium	115-2	4543127	4517617	4607499	4556081	1.02	cps
Iron	56-2	85065137	85244095	84830614	85046615	0.24	cps
Iron	57-2	2123268	2144951	2124126	2130782	0.58	cps
Iron	54-2	4615563	4650766	4550923	4605751	1.10	cps
Krypton	83-1	243	187	203	211	13.80	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DUPDLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:07:07 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	69047	70077	68334	69153	1.27	cps
Lead	207-1	55834	56159	56544	56179	0.63	cps
Lead	208-1	268232	266521	266598	267117	0.36	cps
Lithium	6-1	1690069	1706333	1700430	1698944	0.48	cps
Magnesium	24-2	734875	730922	728629	731475	0.43	cps
Manganese	55-2	900549	901184	896916	899550	0.26	cps
Molybdenum	94-1	41485	42144	42050	41893	0.85	cps
Molybdenum	95-1	4064	3877	3891	3944	2.64	cps
Molybdenum	96-1	12038	11938	11955	11977	0.45	cps
Molybdenum	97-1	2484	2407	2530	2474	2.52	cps
Molybdenum	98-1	6808	6185	6375	6456	4.95	cps
Neodymium	150-1	55244	56021	55642	55636	0.70	cps
Neodymium	150-2	35411	35434	34813	35220	1.00	cps
Nickel	60-2	17817	17036	17520	17458	2.26	cps
Phosphorus	31-2	3194	3134	3307	3211	2.74	cps
Potassium	39-2	989298	990672	988660	989543	0.10	cps
Rhodium	103-1	10316776	10970836	10770261	10685957	3.14	cps
Rhodium	103-2	6457332	6568953	6572497	6532927	1.00	cps
Scandium	45-1	6303301	6577849	6465933	6449028	2.14	cps
Scandium	45-2	553354	553572	554806	553911	0.14	cps
Selenium	82-1	418	463	491	457	7.95	cps
Selenium	77-2	70	53	60	61	13.73	cps
Selenium	78-2	480	467	480	476	1.62	cps
Silicon	28-1	2990528	3029204	2974596	2998109	0.94	cps
Silver	107-1	563	477	453	498	11.64	cps
Silver	109-1	417	330	300	349	17.36	cps
Sodium	23-2	76331	76103	76137	76190	0.16	cps
Strontium	86-1	11541	11465	11151	11386	1.82	cps
Strontium	88-1	97280	96994	96605	96960	0.35	cps
Sulfur	34-1	160870	159762	158957	159863	0.60	cps
Terbium	159-1	14478851	15289529	15415616	15061332	3.38	cps
Terbium	159-2	10768534	10761098	10780157	10769930	0.09	cps
Thallium	203-1	2564	2344	2260	2389	6.56	cps
Thallium	205-1	5985	5591	5521	5699	4.38	cps
Tin	118-1	2550	2650	3138	2779	11.31	cps
Titanium	47-1	576976	592914	581831	583907	1.40	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DUPDLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:07:07 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43695	43143	42789	43209	1.06	cps
Vanadium	51-2	126460	126401	126434	126432	0.02	cps
Yttrium	89-1	17263312	18056242	18102979	17807511	2.65	cps
Yttrium	89-2	5073019	5008137	5003491	5028216	0.77	cps
Zinc	66-2	21869	21996	21656	21841	0.79	cps
Zirconium	90-1	106657	107141	107191	106996	0.28	cps
Zirconium	91-1	24073	23606	23839	23840	0.98	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01LDLX25 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 25
Date & Time Acquired : 2025-01-06 15:10:21 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	417142	415539	415621	416101	0.22	cps
Antimony	121-1	227	263	233	241	8.10	cps
Arsenic	75-2	430	413	437	427	2.82	cps
Barium	135-1	26218	26986	26014	26406	1.94	cps
Barium	137-1	45375	46027	45185	45529	0.97	cps
Beryllium	9-1	203	277	250	243	15.25	cps
Bismuth	209-1	9447274	9299405	9402216	9382965	0.81	cps
Bismuth	209-2	8110873	8108105	8057095	8092025	0.37	cps
Bromine	81-1	15115	15074	14938	15042	0.62	cps
Bromine	81-2	223	220	243	229	5.51	cps
Cadmium	108-1	113	83	90	96	16.49	cps
Cadmium	106-1	24447	24905	25225	24859	1.57	cps
Cadmium	111-1	2392	2492	2496	2460	2.40	cps
Calcium	43-1	4344	4267	4524	4378	3.01	cps
Calcium	44-1	75443	75493	76247	75728	0.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22624	22443	22060	22376	1.29	cps
Cobalt	59-2	11011	11044	10894	10983	0.72	cps
Copper	63-2	14904	14691	14687	14761	0.84	cps
Dysprosium	156-1	6261	6221	6498	6327	2.36	cps
Dysprosium	156-2	5958	5701	5668	5776	2.75	cps
Erbium	164-1	5344	5188	5221	5251	1.57	cps
Erbium	164-2	3647	3847	3921	3805	3.72	cps
Gadolinium	160-1	5938	6168	5951	6019	2.15	cps
Gadolinium	160-2	5111	4931	5208	5083	2.76	cps
Holmium	165-1	14834216	15081425	15065584	14993742	0.92	cps
Holmium	165-2	10864747	11083781	10867587	10938705	1.15	cps
Indium	115-1	11818032	11747226	11833029	11799429	0.39	cps
Indium	115-2	4653100	4668297	4627857	4649751	0.44	cps
Iron	56-2	17133552	17055088	17242715	17143785	0.55	cps
Iron	57-2	436589	435830	435837	436085	0.10	cps
Iron	54-2	955148	952717	956762	954875	0.21	cps
Krypton	83-1	187	193	210	197	6.11	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01LDLX25 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 25
Date & Time Acquired : 2025-01-06 15:10:21 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	14364	14281	14328	14324	0.29	cps
Lead	207-1	11789	11255	11505	11516	2.32	cps
Lead	208-1	55742	55729	54800	55424	0.97	cps
Lithium	6-1	1671073	1657938	1680941	1669984	0.69	cps
Magnesium	24-2	149208	147394	148693	148432	0.63	cps
Manganese	55-2	184215	184151	185814	184727	0.51	cps
Molybdenum	94-1	8236	8869	8656	8587	3.75	cps
Molybdenum	95-1	1133	1163	1287	1195	6.80	cps
Molybdenum	96-1	2804	3017	3014	2945	4.15	cps
Molybdenum	97-1	867	747	793	802	7.54	cps
Molybdenum	98-1	1887	1923	1960	1923	1.91	cps
Neodymium	150-1	10948	11425	11495	11289	2.64	cps
Neodymium	150-2	7115	7149	6718	6994	3.42	cps
Nickel	60-2	4021	4141	4347	4170	3.96	cps
Phosphorus	31-2	767	853	847	822	5.87	cps
Potassium	39-2	238520	243297	240632	240816	0.99	cps
Rhodium	103-1	11155304	11055350	11080773	11097142	0.47	cps
Rhodium	103-2	6555233	6555794	6579989	6563672	0.22	cps
Scandium	45-1	6511997	6517519	6629813	6553110	1.01	cps
Scandium	45-2	555146	555593	554136	554958	0.13	cps
Selenium	82-1	337	392	406	378	9.67	cps
Selenium	77-2	13	30	27	23	37.81	cps
Selenium	78-2	417	407	383	402	4.25	cps
Silicon	28-1	1548492	1493036	1489855	1510461	2.18	cps
Silver	107-1	207	243	223	224	8.18	cps
Silver	109-1	140	150	170	153	9.96	cps
Sodium	23-2	36176	36650	35975	36267	0.96	cps
Strontium	86-1	2464	2604	2674	2580	4.14	cps
Strontium	88-1	19383	19644	19647	19558	0.77	cps
Sulfur	34-1	151529	150674	150553	150918	0.35	cps
Terbium	159-1	15541216	15422695	15439144	15467685	0.42	cps
Terbium	159-2	10705763	10820340	10738022	10754708	0.55	cps
Thallium	203-1	777	740	710	742	4.50	cps
Thallium	205-1	1743	1910	1717	1790	5.85	cps
Tin	118-1	1257	1220	1147	1208	4.64	cps
Titanium	47-1	117505	118502	117733	117913	0.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01LDLX25 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 25
Date & Time Acquired : 2025-01-06 15:10:21 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8930	8513	8316	8586	3.65	cps
Vanadium	51-2	26066	25916	26129	26037	0.42	cps
Yttrium	89-1	18280818	18098023	17958332	18112391	0.89	cps
Yttrium	89-2	4969632	5054028	4979397	5001019	0.92	cps
Zinc	66-2	4574	4444	4741	4586	3.24	cps
Zirconium	90-1	22414	22220	22217	22284	0.51	cps
Zirconium	91-1	4904	4664	4811	4793	2.53	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:13:34 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2506284	2485993	2455598	2482625	1.03	cps
Antimony	121-1	1387901	1395135	1397503	1393513	0.36	cps
Arsenic	75-2	78090	78905	78888	78628	0.59	cps
Barium	135-1	1936673	1935754	1921585	1931337	0.44	cps
Barium	137-1	3316095	3336196	3348338	3333543	0.49	cps
Beryllium	9-1	173237	177367	175141	175248	1.18	cps
Bismuth	209-1	9309208	9308895	9206375	9274826	0.64	cps
Bismuth	209-2	7970018	7854324	7853574	7892639	0.85	cps
Bromine	81-1	15518	16192	16086	15932	2.27	cps
Bromine	81-2	417	563	570	517	16.77	cps
Cadmium	108-1	28034	27817	27700	27850	0.61	cps
Cadmium	106-1	64687	66525	65262	65491	1.44	cps
Cadmium	111-1	351947	360925	361741	358204	1.52	cps
Calcium	43-1	321091	323134	323163	322463	0.37	cps
Calcium	44-1	5004079	5103390	5031230	5046233	1.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	629233	627195	627034	627821	0.20	cps
Cobalt	59-2	911191	913343	911585	912040	0.13	cps
Copper	63-2	4970631	5016526	4951500	4979553	0.67	cps
Dysprosium	156-1	30036	29558	29615	29736	0.88	cps
Dysprosium	156-2	27146	26989	26923	27019	0.43	cps
Erbium	164-1	25350	24662	24929	24980	1.39	cps
Erbium	164-2	17945	18542	17998	18162	1.82	cps
Gadolinium	160-1	27350	27300	27844	27498	1.09	cps
Gadolinium	160-2	21116	21153	21430	21233	0.81	cps
Holmium	165-1	15085829	14880501	14905416	14957249	0.75	cps
Holmium	165-2	10954381	10867435	10804089	10875302	0.69	cps
Indium	115-1	11830093	11789580	11773626	11797766	0.25	cps
Indium	115-2	4580296	4607656	4614873	4600942	0.40	cps
Iron	56-2	105393598	104720135	104005282	104706338	0.66	cps
Iron	57-2	2658394	2636267	2601505	2632055	1.09	cps
Iron	54-2	5761498	5708070	5749160	5739576	0.49	cps
Krypton	83-1	200	240	250	230	11.50	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:13:34 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4422535	4379316	4462956	4421602	0.95	cps
Lead	207-1	3993911	3984509	3935187	3971202	0.79	cps
Lead	208-1	18006127	17996599	17863470	17955399	0.44	cps
Lithium	6-1	1675809	1662063	1704844	1680905	1.30	cps
Magnesium	24-2	4205606	4212933	4153698	4190746	0.77	cps
Manganese	55-2	4099811	4071767	4072865	4081481	0.39	cps
Molybdenum	94-1	3297840	3300582	3340902	3313108	0.73	cps
Molybdenum	95-1	4140540	4253336	4185629	4193168	1.35	cps
Molybdenum	96-1	4633354	4739408	4701185	4691315	1.14	cps
Molybdenum	97-1	2588107	2638180	2601909	2609399	0.99	cps
Molybdenum	98-1	6685877	6709903	6683971	6693250	0.22	cps
Neodymium	150-1	52183	53380	52504	52689	1.18	cps
Neodymium	150-2	32795	32538	32788	32707	0.45	cps
Nickel	60-2	228244	228125	227749	228039	0.11	cps
Phosphorus	31-2	3067	2890	3020	2993	3.06	cps
Potassium	39-2	4030150	4074056	4047858	4050688	0.55	cps
Rhodium	103-1	10941465	10955677	10845599	10914247	0.55	cps
Rhodium	103-2	6453103	6479842	6441857	6458268	0.30	cps
Scandium	45-1	6564242	6639511	6542786	6582179	0.77	cps
Scandium	45-2	564337	561091	559525	561651	0.44	cps
Selenium	82-1	22650	22507	22712	22623	0.46	cps
Selenium	77-2	2630	2634	2607	2624	0.55	cps
Selenium	78-2	8803	9043	9060	8968	1.60	cps
Silicon	28-1	3414045	3498357	4048142	3653515	9.43	cps
Silver	107-1	4411	4597	4634	4547	2.63	cps
Silver	109-1	2037	2360	2184	2194	7.38	cps
Sodium	23-2	6074536	6032143	6086599	6064426	0.47	cps
Strontium	86-1	454015	455237	451893	453715	0.37	cps
Strontium	88-1	4042842	4058007	4017596	4039481	0.51	cps
Sulfur	34-1	161513	162237	161156	161635	0.34	cps
Terbium	159-1	15411898	15414283	15222514	15349565	0.72	cps
Terbium	159-2	10920403	10796869	10685240	10800837	1.09	cps
Thallium	203-1	1356479	1378160	1373012	1369217	0.83	cps
Thallium	205-1	3482302	3460341	3445379	3462674	0.54	cps
Tin	118-1	1125578	1137423	1121693	1128231	0.73	cps
Titanium	47-1	1230308	1218262	1240159	1229577	0.89	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:13:34 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4527153	4549748	4511590	4529497	0.42	cps
Vanadium	51-2	611821	607340	608565	609242	0.38	cps
Yttrium	89-1	18396416	18425270	18245834	18355840	0.52	cps
Yttrium	89-2	5084577	5094179	5010518	5063091	0.90	cps
Zinc	66-2	828309	835434	825743	829829	0.61	cps
Zirconium	90-1	2564948	2570139	2574365	2569817	0.18	cps
Zirconium	91-1	552848	558707	555949	555834	0.53	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSDX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:16:27 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2453242	2449211	2444431	2448961	0.18	cps
Antimony	121-1	1392999	1390945	1387853	1390599	0.19	cps
Arsenic	75-2	77715	76841	76529	77028	0.80	cps
Barium	135-1	1913425	1947970	1913190	1924862	1.04	cps
Barium	137-1	3320295	3386110	3315763	3340723	1.18	cps
Beryllium	9-1	172546	174181	173565	173431	0.48	cps
Bismuth	209-1	9233264	9343485	9262339	9279696	0.62	cps
Bismuth	209-2	7948477	7800629	7975366	7908157	1.19	cps
Bromine	81-1	15568	16529	15982	16027	3.01	cps
Bromine	81-2	413	507	427	449	11.25	cps
Cadmium	108-1	27924	28024	27984	27977	0.18	cps
Cadmium	106-1	64730	64328	64797	64618	0.39	cps
Cadmium	111-1	356098	358687	356724	357170	0.38	cps
Calcium	43-1	322033	321325	319819	321059	0.35	cps
Calcium	44-1	5065892	5004565	4962961	5011139	1.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	623139	614871	617029	618346	0.69	cps
Cobalt	59-2	899814	894504	890752	895023	0.51	cps
Copper	63-2	4912226	4841764	4930016	4894669	0.95	cps
Dysprosium	156-1	29481	29852	29264	29532	1.01	cps
Dysprosium	156-2	27103	26301	26579	26661	1.53	cps
Erbium	164-1	24839	25320	24939	25032	1.01	cps
Erbium	164-2	18018	18222	18122	18121	0.56	cps
Gadolinium	160-1	27737	27584	27684	27668	0.28	cps
Gadolinium	160-2	21266	20936	21123	21108	0.78	cps
Holmium	165-1	15200245	15230041	15068348	15166211	0.57	cps
Holmium	165-2	10884439	10860057	11008539	10917678	0.73	cps
Indium	115-1	11875248	11823447	11744895	11814530	0.56	cps
Indium	115-2	4615372	4551417	4597338	4588042	0.72	cps
Iron	56-2	103566628	103499732	103343018	103469793	0.11	cps
Iron	57-2	2598929	2567770	2568721	2578473	0.69	cps
Iron	54-2	5663070	5685068	5623044	5657061	0.56	cps
Krypton	83-1	203	207	277	229	18.09	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLM5DX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:16:27 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4422389	4432479	4313432	4389433	1.50	cps
Lead	207-1	3871467	3925680	3900284	3899144	0.70	cps
Lead	208-1	17851347	17958074	17690324	17833248	0.76	cps
Lithium	6-1	1700719	1698480	1667870	1689023	1.09	cps
Magnesium	24-2	4108607	4112472	4115608	4112229	0.09	cps
Manganese	55-2	4048597	4000247	4049789	4032878	0.70	cps
Molybdenum	94-1	3328170	3329818	3306622	3321537	0.39	cps
Molybdenum	95-1	4164158	4131853	4138344	4144785	0.41	cps
Molybdenum	96-1	4620602	4598495	4653294	4624130	0.60	cps
Molybdenum	97-1	2644515	2606390	2604108	2618338	0.87	cps
Molybdenum	98-1	6704464	6622129	6608539	6645044	0.78	cps
Neodymium	150-1	52223	53575	53187	52995	1.31	cps
Neodymium	150-2	32030	33379	33239	32883	2.26	cps
Nickel	60-2	225236	224846	226058	225380	0.27	cps
Phosphorus	31-2	3124	3150	2837	3037	5.72	cps
Potassium	39-2	3988525	3967484	3997069	3984359	0.38	cps
Rhodium	103-1	10999522	11006926	10833792	10946747	0.89	cps
Rhodium	103-2	6545566	6418347	6444998	6469637	1.04	cps
Scandium	45-1	6720498	6624418	6637773	6660896	0.78	cps
Scandium	45-2	559514	554013	558272	557266	0.52	cps
Selenium	82-1	22528	22448	22715	22563	0.61	cps
Selenium	77-2	2540	2554	2764	2619	4.78	cps
Selenium	78-2	8829	8853	8919	8867	0.53	cps
Silicon	28-1	3659327	3338559	3514795	3504227	4.58	cps
Silver	107-1	4454	4324	4461	4413	1.75	cps
Silver	109-1	2317	2030	2107	2151	6.90	cps
Sodium	23-2	6018321	5966270	5984829	5989807	0.44	cps
Strontium	86-1	452498	453593	448704	451598	0.57	cps
Strontium	88-1	4070806	4000401	3992769	4021325	1.07	cps
Sulfur	34-1	158475	158701	158037	158404	0.21	cps
Terbium	159-1	15329036	15534400	15347737	15403724	0.74	cps
Terbium	159-2	10750264	10588951	10733571	10690929	0.83	cps
Thallium	203-1	1364888	1377313	1375146	1372449	0.48	cps
Thallium	205-1	3485634	3460362	3429202	3458399	0.82	cps
Tin	118-1	1124702	1129522	1120193	1124806	0.41	cps
Titanium	47-1	1236945	1221261	1224944	1227717	0.67	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01DLMSDX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:16:27 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4487290	4527359	4471007	4495218	0.65	cps
Vanadium	51-2	605859	601582	601688	603043	0.40	cps
Yttrium	89-1	18548415	18328159	18303983	18393519	0.73	cps
Yttrium	89-2	5065357	5036161	4988216	5029911	0.77	cps
Zinc	66-2	819436	818822	815107	817788	0.29	cps
Zirconium	90-1	2589022	2560833	2556173	2568676	0.69	cps
Zirconium	91-1	557093	558282	557290	557555	0.11	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01ADLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:19:18 DataFile Name : 037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2457709	2449960	2431902	2446524	0.54	cps
Antimony	121-1	1384531	1386670	1380648	1383949	0.22	cps
Arsenic	75-2	78576	76294	77517	77463	1.47	cps
Barium	135-1	1924190	1914304	1882561	1907018	1.14	cps
Barium	137-1	3349702	3303271	3299051	3317341	0.85	cps
Beryllium	9-1	172401	173042	172873	172772	0.19	cps
Bismuth	209-1	9367460	9408918	9437264	9404547	0.37	cps
Bismuth	209-2	7926895	7930267	7744436	7867199	1.35	cps
Bromine	81-1	15598	15468	15495	15520	0.44	cps
Bromine	81-2	420	463	503	462	9.02	cps
Cadmium	108-1	27666	27166	27556	27463	0.96	cps
Cadmium	106-1	64633	64067	64579	64426	0.48	cps
Cadmium	111-1	354875	354471	351869	353738	0.46	cps
Calcium	43-1	321816	322338	320074	321409	0.37	cps
Calcium	44-1	5002512	5052411	4969620	5008181	0.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	620036	613521	618193	617250	0.54	cps
Cobalt	59-2	894285	891201	889739	891742	0.26	cps
Copper	63-2	4912557	4939425	4846398	4899460	0.98	cps
Dysprosium	156-1	29772	28906	29758	29479	1.68	cps
Dysprosium	156-2	26792	26949	26218	26653	1.44	cps
Erbium	164-1	24862	24769	25143	24925	0.78	cps
Erbium	164-2	18072	18349	17902	18107	1.25	cps
Gadolinium	160-1	26752	27357	27253	27121	1.19	cps
Gadolinium	160-2	21136	21219	21386	21247	0.60	cps
Holmium	165-1	15118484	15101365	15005211	15075020	0.41	cps
Holmium	165-2	10951293	10803098	10835847	10863413	0.72	cps
Indium	115-1	11784622	11786438	11717226	11762762	0.34	cps
Indium	115-2	4639346	4524160	4546680	4570062	1.34	cps
Iron	56-2	102392268	102927785	102618982	102646345	0.26	cps
Iron	57-2	2571404	2574073	2598208	2581228	0.57	cps
Iron	54-2	5630772	5599008	5595676	5608485	0.35	cps
Krypton	83-1	187	223	273	228	19.10	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01ADLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:19:18 DataFile Name : 037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4462538	4360265	4330102	4384302	1.58	cps
Lead	207-1	4030137	3919593	3982662	3977464	1.39	cps
Lead	208-1	18109281	17767329	17791377	17889329	1.07	cps
Lithium	6-1	1653481	1655827	1654970	1654759	0.07	cps
Magnesium	24-2	4117105	4102608	4136000	4118571	0.41	cps
Manganese	55-2	3983935	3999334	4000108	3994459	0.23	cps
Molybdenum	94-1	3245685	3292453	3294901	3277680	0.85	cps
Molybdenum	95-1	4095877	4121331	4091042	4102750	0.40	cps
Molybdenum	96-1	4610131	4610032	4587302	4602488	0.29	cps
Molybdenum	97-1	2600284	2567001	2582822	2583369	0.64	cps
Molybdenum	98-1	6600371	6594208	6601538	6598706	0.06	cps
Neodymium	150-1	51396	52370	52340	52035	1.06	cps
Neodymium	150-2	32387	33079	32741	32736	1.06	cps
Nickel	60-2	224901	224281	223162	224115	0.39	cps
Phosphorus	31-2	2950	2924	3094	2989	3.06	cps
Potassium	39-2	3963556	3979132	4000835	3981174	0.47	cps
Rhodium	103-1	10923903	10926710	10849653	10900088	0.40	cps
Rhodium	103-2	6473017	6394714	6377730	6415154	0.79	cps
Scandium	45-1	6604378	6643070	6600103	6615850	0.36	cps
Scandium	45-2	552581	552880	558025	554495	0.55	cps
Selenium	82-1	22491	22579	22532	22534	0.20	cps
Selenium	77-2	2517	2644	2677	2612	3.23	cps
Selenium	78-2	8903	8653	8849	8802	1.50	cps
Silicon	28-1	3376929	3406419	3545365	3442904	2.61	cps
Silver	107-1	4241	4274	4497	4337	3.22	cps
Silver	109-1	2134	2010	2280	2141	6.31	cps
Sodium	23-2	5924365	5992350	5934902	5950539	0.61	cps
Strontium	86-1	448255	449905	447697	448619	0.26	cps
Strontium	88-1	4027728	3994513	3986780	4003007	0.54	cps
Sulfur	34-1	155455	157192	157495	156714	0.70	cps
Terbium	159-1	15302691	15283351	15214252	15266765	0.30	cps
Terbium	159-2	10771839	10780570	10817992	10790134	0.23	cps
Thallium	203-1	1359566	1352960	1371717	1361414	0.70	cps
Thallium	205-1	3394626	3399970	3463736	3419444	1.12	cps
Tin	118-1	1113201	1123073	1118005	1118093	0.44	cps
Titanium	47-1	1197937	1215604	1202204	1205248	0.76	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5365-01ADLX5 Instrumnet Name : P7
Client Sample ID : TAPFTA-SB01I-4.5-1219; Dilution Factor : 5
Date & Time Acquired : 2025-01-06 15:19:18 DataFile Name : 037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4516607	4535356	4561878	4537947	0.50	cps
Vanadium	51-2	599093	597377	596280	597583	0.24	cps
Yttrium	89-1	18361203	18030664	18132926	18174931	0.93	cps
Yttrium	89-2	5027683	5017853	5007485	5017674	0.20	cps
Zinc	66-2	815470	814773	814600	814947	0.06	cps
Zirconium	90-1	2548009	2535939	2489896	2524615	1.21	cps
Zirconium	91-1	549174	550207	549766	549716	0.09	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:35:10 DataFile Name : 042CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10147834	10167539	10247817	10187730	0.52	cps
Antimony	121-1	5050623	5115472	5030148	5065414	0.88	cps
Arsenic	75-2	251157	253000	252113	252090	0.37	cps
Barium	135-1	6687501	6789686	6592078	6689755	1.48	cps
Barium	137-1	11625346	11641117	11508273	11591579	0.63	cps
Beryllium	9-1	623721	630165	626289	626725	0.52	cps
Bismuth	209-1	8243467	8462804	8534939	8413737	1.80	cps
Bismuth	209-2	7142491	7138495	7108505	7129830	0.26	cps
Bromine	81-1	13293	13186	13293	13257	0.46	cps
Bromine	81-2	100	123	90	104	16.38	cps
Cadmium	108-1	94066	93492	94488	94015	0.53	cps
Cadmium	106-1	153858	155478	154677	154671	0.52	cps
Cadmium	111-1	1146971	1153705	1151524	1150733	0.30	cps
Calcium	43-1	6593606	6574695	6524040	6564114	0.55	cps
Calcium	44-1	107133685	107179898	106516755	106943446	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1908682	1893386	1884703	1895590	0.64	cps
Cobalt	59-2	2885132	2909108	2869564	2887935	0.69	cps
Copper	63-2	20209470	20315599	20200479	20241850	0.32	cps
Dysprosium	156-1	403	477	453	444	8.43	cps
Dysprosium	156-2	613	593	580	596	2.82	cps
Erbium	164-1	303	273	393	323	19.31	cps
Erbium	164-2	267	217	227	237	11.18	cps
Gadolinium	160-1	253	317	353	308	16.44	cps
Gadolinium	160-2	783	870	893	849	6.83	cps
Holmium	165-1	13826356	14352323	14265205	14147961	1.99	cps
Holmium	165-2	10409351	10381843	10325645	10372280	0.41	cps
Indium	115-1	10434399	10582465	10573002	10529955	0.79	cps
Indium	115-2	4126343	4112058	4048113	4095505	1.02	cps
Iron	56-2	439455260	443722860	445217540	442798553	0.68	cps
Iron	57-2	11152464	11252457	11200276	11201732	0.45	cps
Iron	54-2	24234400	24184410	24063877	24160896	0.36	cps
Krypton	83-1	180	173	247	200	20.28	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:35:10 DataFile Name : 042CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20661895	20728154	20698053	20696034	0.16	cps
Lead	207-1	18446479	18447234	18536769	18476827	0.28	cps
Lead	208-1	83890143	84278054	84397316	84188504	0.31	cps
Lithium	6-1	1590140	1583379	1611493	1595004	0.92	cps
Magnesium	24-2	81372784	80351547	80839047	80854459	0.63	cps
Manganese	55-2	15127545	15320620	15131848	15193337	0.73	cps
Molybdenum	94-1	18039391	18062473	17914088	18005317	0.44	cps
Molybdenum	95-1	25401483	25663477	25341496	25468819	0.67	cps
Molybdenum	96-1	28002122	28333660	28112606	28149463	0.60	cps
Molybdenum	97-1	15983811	16028747	15831918	15948158	0.65	cps
Molybdenum	98-1	41145244	40987215	40703959	40945473	0.55	cps
Neodymium	150-1	560	600	577	579	3.47	cps
Neodymium	150-2	167	217	217	200	14.43	cps
Nickel	60-2	690671	699533	689805	693336	0.78	cps
Phosphorus	31-2	98816	97964	97729	98170	0.58	cps
Potassium	39-2	56655992	56097783	56613959	56455911	0.55	cps
Rhodium	103-1	9219038	9352730	9425314	9332361	1.12	cps
Rhodium	103-2	5572222	5585223	5583714	5580386	0.13	cps
Scandium	45-1	5960953	6061686	5981624	6001421	0.89	cps
Scandium	45-2	507565	507384	503028	505992	0.51	cps
Selenium	82-1	73353	73972	73913	73746	0.46	cps
Selenium	77-2	8059	8119	8216	8131	0.97	cps
Selenium	78-2	28013	27796	27529	27779	0.87	cps
Silicon	28-1	28541840	28501495	28275890	28439742	0.50	cps
Silver	107-1	6184277	6145972	6109822	6146690	0.61	cps
Silver	109-1	5907354	5847867	5837462	5864228	0.64	cps
Sodium	23-2	136455925	137252501	136952278	136886901	0.29	cps
Strontium	86-1	1597969	1626928	1608640	1611179	0.91	cps
Strontium	88-1	14137198	13976275	14112505	14075326	0.62	cps
Sulfur	34-1	516842	516810	514397	516016	0.27	cps
Terbium	159-1	14117863	14599944	14565882	14427896	1.86	cps
Terbium	159-2	10216134	10140425	10152611	10169723	0.40	cps
Thallium	203-1	5249228	5328397	5242877	5273501	0.90	cps
Thallium	205-1	12574529	12683076	12676371	12644659	0.48	cps
Tin	118-1	4172611	4181869	4215558	4190013	0.54	cps
Titanium	47-1	6350112	6325006	6335674	6336931	0.20	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P7
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:35:10 DataFile Name : 042CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16783380	16960784	16954555	16899573	0.60	cps
Vanadium	51-2	1700958	1711612	1695304	1702625	0.49	cps
Yttrium	89-1	16284410	16473611	16685260	16481093	1.22	cps
Yttrium	89-2	4549872	4564234	4517105	4543737	0.53	cps
Zinc	66-2	3439424	3421497	3453032	3437984	0.46	cps
Zirconium	90-1	8895122	8786144	8795369	8825545	0.68	cps
Zirconium	91-1	1997980	1980465	1990188	1989544	0.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:38:14 DataFile Name : 043CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	790	790	743	774	3.48	cps
Antimony	121-1	1520	1297	1430	1416	7.94	cps
Arsenic	75-2	30	33	43	36	19.51	cps
Barium	135-1	510	487	440	479	7.44	cps
Barium	137-1	787	813	793	798	1.74	cps
Beryllium	9-1	170	163	180	171	4.90	cps
Bismuth	209-1	9460969	9269165	9378137	9369424	1.03	cps
Bismuth	209-2	7965481	7920215	7990413	7958703	0.45	cps
Bromine	81-1	13239	13113	13623	13325	1.99	cps
Bromine	81-2	127	133	153	138	10.07	cps
Cadmium	108-1	73	67	80	73	9.09	cps
Cadmium	106-1	23492	23486	22711	23230	1.93	cps
Cadmium	111-1	2425	2422	2358	2402	1.56	cps
Calcium	43-1	870	700	850	807	11.52	cps
Calcium	44-1	16045	15672	16142	15953	1.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2787	2884	3024	2898	4.11	cps
Cobalt	59-2	363	320	363	349	7.17	cps
Copper	63-2	4031	3967	3981	3993	0.84	cps
Dysprosium	156-1	10	3	10	8	49.52	cps
Dysprosium	156-2	3	7	3	4	43.40	cps
Erbium	164-1	50	70	107	76	38.04	cps
Erbium	164-2	50	43	30	41	24.77	cps
Gadolinium	160-1	100	93	120	104	13.29	cps
Gadolinium	160-2	680	640	663	661	3.04	cps
Holmium	165-1	14920057	15099993	14762635	14927562	1.13	cps
Holmium	165-2	10636239	10671277	10672325	10659947	0.19	cps
Indium	115-1	11567014	11443421	11543101	11517845	0.57	cps
Indium	115-2	4479807	4475667	4536331	4497269	0.75	cps
Iron	56-2	52431	53281	55010	53574	2.45	cps
Iron	57-2	2134	2084	2043	2087	2.16	cps
Iron	54-2	4307	4337	4254	4300	0.98	cps
Krypton	83-1	210	157	210	192	16.02	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:38:14 DataFile Name : 043CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1957	2087	1920	1988	4.41	cps
Lead	207-1	1960	1883	1763	1869	5.30	cps
Lead	208-1	8344	8428	8088	8287	2.14	cps
Lithium	6-1	1737832	1725415	1718665	1727304	0.56	cps
Magnesium	24-2	6231	6155	6188	6191	0.62	cps
Manganese	55-2	1350	1417	1380	1382	2.42	cps
Molybdenum	94-1	1743	1847	1807	1799	2.90	cps
Molybdenum	95-1	2337	2354	2340	2344	0.38	cps
Molybdenum	96-1	2684	2380	2427	2497	6.54	cps
Molybdenum	97-1	1490	1313	1553	1452	8.57	cps
Molybdenum	98-1	3814	3560	3791	3722	3.76	cps
Neodymium	150-1	7	3	17	9	78.08	cps
Neodymium	150-2	0	13	3	6	124.93	cps
Nickel	60-2	927	903	863	898	3.57	cps
Phosphorus	31-2	353	277	327	319	12.21	cps
Potassium	39-2	55327	54129	54139	54532	1.26	cps
Rhodium	103-1	10551159	10703029	10679483	10644557	0.77	cps
Rhodium	103-2	6318253	6355641	6432628	6368841	0.92	cps
Scandium	45-1	6221235	6207137	6279645	6236006	0.62	cps
Scandium	45-2	529703	527888	525424	527672	0.41	cps
Selenium	82-1	299	446	326	357	21.95	cps
Selenium	77-2	10	0	0	3	173.21	cps
Selenium	78-2	373	410	410	398	5.32	cps
Silicon	28-1	810312	809736	821951	814000	0.85	cps
Silver	107-1	1160	1043	997	1067	7.89	cps
Silver	109-1	963	890	983	946	5.20	cps
Sodium	23-2	49556	48085	47811	48484	1.94	cps
Strontium	86-1	423	457	457	446	4.32	cps
Strontium	88-1	1077	1057	1093	1076	1.71	cps
Sulfur	34-1	156536	158145	159378	158020	0.90	cps
Terbium	159-1	15028284	15136947	15018558	15061263	0.44	cps
Terbium	159-2	10604630	10622505	10510764	10579300	0.57	cps
Thallium	203-1	983	993	903	960	5.14	cps
Thallium	205-1	2370	2334	2337	2347	0.86	cps
Tin	118-1	1293	1270	1290	1285	0.98	cps
Titanium	47-1	470	480	523	491	5.77	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P7
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:38:14 DataFile Name : 043CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1030	850	910	930	9.86	cps
Vanadium	51-2	97	147	160	134	24.83	cps
Yttrium	89-1	17487123	17287129	17471211	17415154	0.64	cps
Yttrium	89-2	4813752	4824821	4796081	4811552	0.30	cps
Zinc	66-2	580	510	557	549	6.49	cps
Zirconium	90-1	1530	1810	1793	1711	9.18	cps
Zirconium	91-1	280	333	317	310	8.80	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BL Instrumnet Name : P7
Client Sample ID : PBS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:41:31 DataFile Name : 044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	453	400	380	411	9.22	cps
Antimony	121-1	563	583	557	568	2.44	cps
Arsenic	75-2	20	3	20	14	66.64	cps
Barium	135-1	243	300	230	258	14.42	cps
Barium	137-1	517	460	453	477	7.30	cps
Beryllium	9-1	143	143	140	142	1.36	cps
Bismuth	209-1	9388127	9357491	9303796	9349805	0.46	cps
Bismuth	209-2	8066252	7934159	8046210	8015541	0.89	cps
Bromine	81-1	14077	13593	13873	13848	1.75	cps
Bromine	81-2	113	123	103	113	8.83	cps
Cadmium	108-1	53	107	70	77	35.59	cps
Cadmium	106-1	23546	23759	23800	23702	0.58	cps
Cadmium	111-1	2424	2388	2414	2409	0.77	cps
Calcium	43-1	567	723	643	644	12.16	cps
Calcium	44-1	13196	13126	12348	12890	3.65	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3040	2940	2767	2916	4.74	cps
Cobalt	59-2	193	143	230	189	23.03	cps
Copper	63-2	2977	2657	2764	2799	5.82	cps
Dysprosium	156-1	7	17	10	11	45.82	cps
Dysprosium	156-2	3	7	3	4	43.40	cps
Erbium	164-1	53	73	53	60	19.25	cps
Erbium	164-2	53	97	33	61	52.98	cps
Gadolinium	160-1	120	73	113	102	24.69	cps
Gadolinium	160-2	677	750	703	710	5.23	cps
Holmium	165-1	14911917	14681293	14825447	14806219	0.79	cps
Holmium	165-2	10728923	10644798	10817947	10730556	0.81	cps
Indium	115-1	11715816	11625168	11678286	11673090	0.39	cps
Indium	115-2	4560318	4585145	4562380	4569281	0.30	cps
Iron	56-2	34967	32478	31446	32964	5.49	cps
Iron	57-2	1767	1603	1673	1681	4.87	cps
Iron	54-2	3207	3207	3154	3189	0.97	cps
Krypton	83-1	170	190	150	170	11.76	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BL Instrumnet Name : P7
Client Sample ID : PBS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:41:31 DataFile Name : 044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1433	1423	1173	1343	10.97	cps
Lead	207-1	1147	1090	1007	1081	6.51	cps
Lead	208-1	5557	5360	4927	5282	6.10	cps
Lithium	6-1	1684937	1741154	1684080	1703390	1.92	cps
Magnesium	24-2	2517	2310	2053	2294	10.12	cps
Manganese	55-2	740	663	690	698	5.58	cps
Molybdenum	94-1	1227	1160	1103	1163	5.31	cps
Molybdenum	95-1	1477	1357	1340	1391	5.36	cps
Molybdenum	96-1	1603	1560	1507	1557	3.11	cps
Molybdenum	97-1	983	880	863	909	7.15	cps
Molybdenum	98-1	2377	2274	1960	2204	9.85	cps
Neodymium	150-1	13	3	13	10	57.75	cps
Neodymium	150-2	10	7	0	6	91.64	cps
Nickel	60-2	877	1023	870	923	9.39	cps
Phosphorus	31-2	280	307	240	276	12.18	cps
Potassium	39-2	51537	50891	50918	51116	0.71	cps
Rhodium	103-1	10794035	10865443	10816913	10825464	0.34	cps
Rhodium	103-2	6449647	6488229	6460174	6466017	0.31	cps
Scandium	45-1	6384386	6344684	6394911	6374660	0.42	cps
Scandium	45-2	536282	534493	537256	536011	0.26	cps
Selenium	82-1	291	362	455	369	22.34	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	383	430	423	412	6.12	cps
Silicon	28-1	844690	1144220	1049253	1012721	15.11	cps
Silver	107-1	470	453	333	419	17.80	cps
Silver	109-1	437	350	340	376	14.15	cps
Sodium	23-2	34920	34626	33316	34287	2.49	cps
Strontium	86-1	343	357	343	348	2.21	cps
Strontium	88-1	603	650	560	604	7.45	cps
Sulfur	34-1	165071	166061	166179	165770	0.37	cps
Terbium	159-1	15232879	15077987	15288646	15199837	0.72	cps
Terbium	159-2	10597570	10574455	10618562	10596862	0.21	cps
Thallium	203-1	637	507	560	568	11.51	cps
Thallium	205-1	1487	1227	1207	1307	11.95	cps
Tin	118-1	1253	1127	1013	1131	10.62	cps
Titanium	47-1	407	317	273	332	20.47	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BL Instrumnet Name : P7
Client Sample ID : PBS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:41:31 DataFile Name : 044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	640	503	590	578	11.97	cps
Vanadium	51-2	50	63	53	56	12.49	cps
Yttrium	89-1	17611278	17532703	17555689	17566557	0.23	cps
Yttrium	89-2	4811764	4833771	4916813	4854116	1.14	cps
Zinc	66-2	303	303	253	287	10.07	cps
Zirconium	90-1	1527	1300	1373	1400	8.26	cps
Zirconium	91-1	270	227	237	244	9.28	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BS Instrumnet Name : P7
Client Sample ID : LCS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:44:46 DataFile Name : 045LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8949	8899	8863	8904	0.49	cps
Antimony	121-1	43469	43084	44529	43694	1.71	cps
Arsenic	75-2	1210	1280	1210	1233	3.28	cps
Barium	135-1	54929	54668	55882	55159	1.16	cps
Barium	137-1	95665	97340	96387	96464	0.87	cps
Beryllium	9-1	2867	2940	2854	2887	1.62	cps
Bismuth	209-1	9273515	9510730	9188644	9324296	1.79	cps
Bismuth	209-2	8059093	8033557	7887914	7993521	1.16	cps
Bromine	81-1	13830	14184	14157	14057	1.40	cps
Bromine	81-2	110	123	100	111	10.54	cps
Cadmium	108-1	533	467	533	511	7.53	cps
Cadmium	106-1	24160	24561	24861	24527	1.43	cps
Cadmium	111-1	7704	7977	7834	7838	1.75	cps
Calcium	43-1	29569	29642	29773	29661	0.35	cps
Calcium	44-1	486202	492876	490700	489926	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19406	19670	19866	19647	1.18	cps
Cobalt	59-2	13690	13303	13356	13449	1.56	cps
Copper	63-2	22353	22317	22227	22299	0.29	cps
Dysprosium	156-1	10	13	17	13	25.01	cps
Dysprosium	156-2	27	20	10	19	44.42	cps
Erbium	164-1	83	63	67	71	15.07	cps
Erbium	164-2	53	73	33	53	37.50	cps
Gadolinium	160-1	110	120	130	120	8.33	cps
Gadolinium	160-2	647	667	590	634	6.27	cps
Holmium	165-1	15031251	14604279	14878824	14838118	1.46	cps
Holmium	165-2	10973654	10864709	10703817	10847393	1.25	cps
Indium	115-1	11639729	11763715	11537488	11646978	0.97	cps
Indium	115-2	4633467	4582192	4561884	4592514	0.80	cps
Iron	56-2	1651879	1661011	1627841	1646910	1.04	cps
Iron	57-2	43516	43476	42741	43244	1.01	cps
Iron	54-2	93810	92592	93099	93167	0.66	cps
Krypton	83-1	180	233	153	189	21.56	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BS Instrumnet Name : P7
Client Sample ID : LCS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:44:46 DataFile Name : 045LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	18145	18232	18089	18156	0.40	cps
Lead	207-1	15716	16073	16260	16016	1.73	cps
Lead	208-1	72158	73522	73244	72975	0.99	cps
Lithium	6-1	1712847	1679687	1711519	1701351	1.10	cps
Magnesium	24-2	350651	347154	345800	347868	0.72	cps
Manganese	55-2	7572	7682	7539	7598	0.99	cps
Molybdenum	94-1	44313	45059	48577	45983	4.95	cps
Molybdenum	95-1	54401	53280	58877	55519	5.33	cps
Molybdenum	96-1	61726	60980	65880	62862	4.20	cps
Molybdenum	97-1	33812	33986	36858	34885	4.90	cps
Molybdenum	98-1	87678	88050	90858	88862	1.96	cps
Neodymium	150-1	13	10	10	11	17.30	cps
Neodymium	150-2	3	3	13	7	86.65	cps
Nickel	60-2	4187	4191	4284	4221	1.30	cps
Phosphorus	31-2	903	917	867	896	2.89	cps
Potassium	39-2	561299	560571	559949	560606	0.12	cps
Rhodium	103-1	10966572	10886234	10812913	10888573	0.71	cps
Rhodium	103-2	6528564	6444664	6433172	6468800	0.81	cps
Scandium	45-1	6503281	6473052	6547299	6507877	0.57	cps
Scandium	45-2	547591	547285	547350	547409	0.03	cps
Selenium	82-1	2082	2024	2076	2061	1.56	cps
Selenium	77-2	230	183	180	198	14.13	cps
Selenium	78-2	1110	1093	1077	1093	1.53	cps
Silicon	28-1	1284611	1309035	1314355	1302667	1.22	cps
Silver	107-1	27466	27837	27693	27665	0.68	cps
Silver	109-1	26337	26805	26678	26607	0.91	cps
Sodium	23-2	607107	606130	604584	605940	0.21	cps
Strontium	86-1	7172	7315	7405	7297	1.61	cps
Strontium	88-1	59972	59316	60805	60031	1.24	cps
Sulfur	34-1	171672	171523	173141	172112	0.52	cps
Terbium	159-1	15254491	15335176	15153076	15247581	0.60	cps
Terbium	159-2	10781772	10578567	10596612	10652317	1.06	cps
Thallium	203-1	22151	22181	22512	22282	0.90	cps
Thallium	205-1	52531	52618	52785	52645	0.25	cps
Tin	118-1	91622	93484	91820	92309	1.11	cps
Titanium	47-1	3214	3450	3544	3403	5.00	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : PB165924BS Instrumnet Name : P7
Client Sample ID : LCS924 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:44:46 DataFile Name : 045LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	63715	63585	64295	63865	0.59	cps
Vanadium	51-2	37059	38456	37827	37781	1.85	cps
Yttrium	89-1	17838594	17760801	17795491	17798295	0.22	cps
Yttrium	89-2	4958384	4928665	4921019	4936023	0.40	cps
Zinc	66-2	8699	8606	8356	8554	2.08	cps
Zirconium	90-1	37999	38250	37859	38036	0.52	cps
Zirconium	91-1	8266	8459	8563	8429	1.79	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:48:02 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2821636	2807773	2780183	2803197	0.75	cps
Antimony	121-1	63714	63975	64722	64137	0.82	cps
Arsenic	75-2	25916	25178	25856	25650	1.60	cps
Barium	135-1	192208	193348	194607	193388	0.62	cps
Barium	137-1	333312	335361	340353	336342	1.08	cps
Beryllium	9-1	1763	1847	1727	1779	3.46	cps
Bismuth	209-1	10215632	10068242	10165455	10149776	0.74	cps
Bismuth	209-2	8490942	8633317	8442367	8522209	1.16	cps
Bromine	81-1	15512	16456	16770	16246	4.03	cps
Bromine	81-2	310	367	300	326	11.04	cps
Cadmium	108-1	5151	5061	5304	5172	2.38	cps
Cadmium	106-1	33799	33388	33215	33467	0.90	cps
Cadmium	111-1	62935	64289	63606	63610	1.06	cps
Calcium	43-1	116762	117413	118054	117410	0.55	cps
Calcium	44-1	1848310	1911328	1879679	1879772	1.68	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41313	41751	40945	41336	0.98	cps
Cobalt	59-2	161848	162788	161265	161967	0.47	cps
Copper	63-2	7628436	7694316	7615908	7646220	0.55	cps
Dysprosium	156-1	61912	62418	62398	62243	0.46	cps
Dysprosium	156-2	56801	56329	57256	56795	0.82	cps
Erbium	164-1	44497	45022	45564	45028	1.18	cps
Erbium	164-2	32351	32214	32655	32406	0.70	cps
Gadolinium	160-1	53582	53796	53629	53669	0.21	cps
Gadolinium	160-2	41264	40883	40264	40804	1.24	cps
Holmium	165-1	15523516	15470063	15323011	15438863	0.67	cps
Holmium	165-2	11299764	11224428	11118514	11214235	0.81	cps
Indium	115-1	12358239	12431761	12351632	12380544	0.36	cps
Indium	115-2	4852342	4902351	4862410	4872368	0.54	cps
Iron	56-2	193936970	192402924	190698424	192346106	0.84	cps
Iron	57-2	4736995	4749446	4746210	4744217	0.14	cps
Iron	54-2	10469845	10487903	10428527	10462092	0.29	cps
Krypton	83-1	270	240	257	256	5.88	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:48:02 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	58774666	59443244	59462709	59226873	0.66	cps
Lead	207-1	49741413	50323406	50450261	50171693	0.75	cps
Lead	208-1	232657357	232283365	233526628	232822450	0.27	cps
Lithium	6-1	1732154	1726315	1718247	1725572	0.40	cps
Magnesium	24-2	2458897	2441018	2438064	2445993	0.46	cps
Manganese	55-2	115719895	115740652	114801208	115420585	0.46	cps
Molybdenum	94-1	731832	742554	743315	739234	0.87	cps
Molybdenum	95-1	1277850	1292873	1293088	1287937	0.68	cps
Molybdenum	96-1	1371974	1418886	1395200	1395353	1.68	cps
Molybdenum	97-1	797453	812826	811629	807303	1.06	cps
Molybdenum	98-1	2095151	2150027	2112443	2119207	1.32	cps
Neodymium	150-1	100216	101639	101425	101093	0.76	cps
Neodymium	150-2	64131	63750	62605	63495	1.25	cps
Nickel	60-2	15615	15875	15475	15655	1.30	cps
Phosphorus	31-2	20077	19936	19579	19864	1.29	cps
Potassium	39-2	697280	696019	697616	696971	0.12	cps
Rhodium	103-1	11335140	11436287	11451148	11407525	0.55	cps
Rhodium	103-2	6962733	6917906	6804547	6895062	1.18	cps
Scandium	45-1	6847717	7063252	6962407	6957792	1.55	cps
Scandium	45-2	605899	611933	605078	607636	0.62	cps
Selenium	82-1	693	791	777	754	7.02	cps
Selenium	77-2	160	203	177	180	12.15	cps
Selenium	78-2	637	593	717	649	9.64	cps
Silicon	28-1	19718814	19988334	20127586	19944912	1.04	cps
Silver	107-1	531164	542094	539997	537752	1.08	cps
Silver	109-1	509643	516525	515389	513852	0.72	cps
Sodium	23-2	88167	88214	89786	88722	1.04	cps
Strontium	86-1	98627	100768	101530	100308	1.50	cps
Strontium	88-1	863769	875937	878786	872831	0.91	cps
Sulfur	34-1	228395	231622	233537	231185	1.12	cps
Terbium	159-1	15635889	16064512	15821256	15840553	1.36	cps
Terbium	159-2	11202677	11095986	11034586	11111083	0.77	cps
Thallium	203-1	9700	9213	8953	9289	4.08	cps
Thallium	205-1	22422	21614	21227	21754	2.80	cps
Tin	118-1	7259	7362	6842	7154	3.85	cps
Titanium	47-1	23635	24330	24300	24088	1.63	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:48:02 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60065	59278	59948	59763	0.71	cps
Vanadium	51-2	108358	108425	108550	108445	0.09	cps
Yttrium	89-1	19267431	19469739	19408150	19381774	0.54	cps
Yttrium	89-2	5488965	5517412	5463191	5489856	0.49	cps
Zinc	66-2	7211074	7237895	7164038	7204335	0.52	cps
Zirconium	90-1	6175	6175	6515	6288	3.12	cps
Zirconium	91-1	1487	1570	1320	1459	8.73	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:51:04 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1035873	1030485	1030807	1032389	0.29	cps
Antimony	121-1	949151	954280	962833	955421	0.72	cps
Arsenic	75-2	195145	195530	194615	195096	0.24	cps
Barium	135-1	123503	124478	124794	124259	0.54	cps
Barium	137-1	213218	216222	214608	214682	0.70	cps
Beryllium	9-1	1430	1307	1397	1378	4.63	cps
Bismuth	209-1	12018742	11976224	11868750	11954572	0.65	cps
Bismuth	209-2	10419840	10317195	10408289	10381775	0.54	cps
Bromine	81-1	17771	18412	18165	18116	1.78	cps
Bromine	81-2	383	430	413	409	5.78	cps
Cadmium	108-1	12946	13219	13103	13089	1.05	cps
Cadmium	106-1	44137	45377	44735	44750	1.39	cps
Cadmium	111-1	169556	171064	172886	171169	0.97	cps
Calcium	43-1	487961	495684	497088	493578	1.00	cps
Calcium	44-1	7776258	7853483	7967748	7865830	1.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29840	30016	29866	29907	0.32	cps
Cobalt	59-2	59510	59394	59648	59517	0.21	cps
Copper	63-2	9112560	9165930	9120558	9133016	0.32	cps
Dysprosium	156-1	22748	22668	23082	22833	0.96	cps
Dysprosium	156-2	20498	21627	20959	21028	2.70	cps
Erbium	164-1	18519	18796	18426	18580	1.04	cps
Erbium	164-2	13577	13787	13794	13719	0.90	cps
Gadolinium	160-1	21300	21607	21577	21494	0.79	cps
Gadolinium	160-2	17257	16974	17067	17099	0.85	cps
Holmium	165-1	15616753	15421661	15625617	15554677	0.74	cps
Holmium	165-2	11298164	11311565	11427639	11345789	0.63	cps
Indium	115-1	13223108	13164639	13209273	13199007	0.23	cps
Indium	115-2	5370892	5381100	5334522	5362171	0.46	cps
Iron	56-2	608832071	607181378	605785511	607266320	0.25	cps
Iron	57-2	14859121	15015743	14974417	14949760	0.54	cps
Iron	54-2	32649745	33042239	32864145	32852043	0.60	cps
Krypton	83-1	237	223	263	241	8.45	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:51:04 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	348582421	341832182	336934455	342449686	1.71	cps
Lead	207-1	303204029	301314442	302610189	302376220	0.32	cps
Lead	208-1	1397251053	1383040479	1371282793	1383858108	0.94	cps
Lithium	6-1	1590386	1592272	1576822	1586493	0.53	cps
Magnesium	24-2	574296	577754	575307	575786	0.31	cps
Manganese	55-2	161263468	161615884	161205311	161361554	0.14	cps
Molybdenum	94-1	228515	231771	228859	229715	0.78	cps
Molybdenum	95-1	391961	393555	395842	393786	0.50	cps
Molybdenum	96-1	426670	430908	428910	428829	0.49	cps
Molybdenum	97-1	242822	245790	244811	244474	0.62	cps
Molybdenum	98-1	617941	625046	630076	624354	0.98	cps
Neodymium	150-1	31038	30780	30309	30709	1.20	cps
Neodymium	150-2	20048	19654	19197	19633	2.17	cps
Nickel	60-2	10987	10537	10924	10816	2.25	cps
Phosphorus	31-2	15485	15758	15735	15659	0.97	cps
Potassium	39-2	891858	891107	891597	891521	0.04	cps
Rhodium	103-1	11776239	11765782	12044344	11862122	1.33	cps
Rhodium	103-2	7342302	7325020	7330318	7332547	0.12	cps
Scandium	45-1	7239786	7197044	7277919	7238250	0.56	cps
Scandium	45-2	672721	670624	663530	668958	0.72	cps
Selenium	82-1	2402	2461	2391	2418	1.55	cps
Selenium	77-2	373	337	303	338	10.37	cps
Selenium	78-2	1297	1383	1223	1301	6.16	cps
Silicon	28-1	24316649	24393881	24578580	24429704	0.55	cps
Silver	107-1	2009991	2013307	2021832	2015043	0.30	cps
Silver	109-1	1921267	1997810	1955720	1958266	1.96	cps
Sodium	23-2	168052	167449	169454	168318	0.61	cps
Strontium	86-1	155396	157926	159847	157723	1.42	cps
Strontium	88-1	1374010	1385511	1393780	1384434	0.72	cps
Sulfur	34-1	3150845	3308122	3208679	3222549	2.47	cps
Terbium	159-1	15925900	16051368	16194542	16057270	0.84	cps
Terbium	159-2	11481122	11228909	11165555	11291862	1.48	cps
Thallium	203-1	15552	15315	15566	15478	0.91	cps
Thallium	205-1	36863	36816	36462	36714	0.60	cps
Tin	118-1	52649	52960	53475	53028	0.79	cps
Titanium	47-1	101162	102044	103283	102163	1.04	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:51:04 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	44578	43484	43722	43928	1.31	cps
Vanadium	51-2	67148	66901	67677	67242	0.59	cps
Yttrium	89-1	19829508	19844930	19999994	19891477	0.47	cps
Yttrium	89-2	5766229	5842262	5815282	5807924	0.66	cps
Zinc	66-2	15100948	15211226	15005036	15105737	0.68	cps
Zirconium	90-1	18709	18422	18907	18679	1.31	cps
Zirconium	91-1	4297	4624	4234	4385	4.77	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:54:14 DataFile Name : 048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2301170	2303498	2301551	2302073	0.05	cps
Antimony	121-1	244709	240411	241421	242180	0.93	cps
Arsenic	75-2	89015	86419	87405	87613	1.50	cps
Barium	135-1	647286	649148	643066	646500	0.48	cps
Barium	137-1	1112257	1122018	1120238	1118171	0.46	cps
Beryllium	9-1	1623	1487	1433	1515	6.47	cps
Bismuth	209-1	10296674	10269848	10263771	10276764	0.17	cps
Bismuth	209-2	8997152	8937484	8904685	8946440	0.52	cps
Bromine	81-1	19800	19727	19767	19764	0.19	cps
Bromine	81-2	840	790	920	850	7.71	cps
Cadmium	108-1	2590	2627	2724	2647	2.60	cps
Cadmium	106-1	30489	31421	30495	30802	1.74	cps
Cadmium	111-1	34574	34799	34702	34691	0.32	cps
Calcium	43-1	84591	85241	84400	84744	0.52	cps
Calcium	44-1	1347987	1376032	1356618	1360212	1.06	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	362866	361834	360537	361746	0.32	cps
Cobalt	59-2	84556	82907	82944	83469	1.13	cps
Copper	63-2	4782243	4729605	4708505	4740118	0.80	cps
Dysprosium	156-1	47132	46938	47600	47224	0.72	cps
Dysprosium	156-2	42879	44149	42735	43254	1.80	cps
Erbium	164-1	34820	35692	35622	35378	1.37	cps
Erbium	164-2	26772	25567	25781	26040	2.47	cps
Gadolinium	160-1	43099	43862	44199	43720	1.29	cps
Gadolinium	160-2	33594	34088	33787	33823	0.74	cps
Holmium	165-1	15905652	15719579	15623959	15749730	0.91	cps
Holmium	165-2	11770716	11412599	11556963	11580092	1.56	cps
Indium	115-1	13111094	12968159	12995393	13024882	0.58	cps
Indium	115-2	5263875	5141721	5221588	5209061	1.19	cps
Iron	56-2	465403926	462384500	464783246	464190558	0.34	cps
Iron	57-2	11547115	11487297	11553954	11529456	0.32	cps
Iron	54-2	25671055	25367754	25313290	25450700	0.76	cps
Krypton	83-1	300	197	297	264	22.21	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:54:14 DataFile Name : 048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	107453355	107881248	106467762	107267455	0.68	cps
Lead	207-1	93028829	92843232	91691825	92521295	0.78	cps
Lead	208-1	426209200	428182217	421416624	425269347	0.82	cps
Lithium	6-1	1604529	1615468	1685569	1635189	2.69	cps
Magnesium	24-2	2233044	2211091	2202919	2215684	0.70	cps
Manganese	55-2	15799092	15608539	15651286	15686306	0.64	cps
Molybdenum	94-1	280187	278637	280483	279769	0.35	cps
Molybdenum	95-1	482284	481627	482527	482146	0.10	cps
Molybdenum	96-1	522200	527042	524107	524450	0.47	cps
Molybdenum	97-1	300471	301785	300421	300892	0.26	cps
Molybdenum	98-1	772789	774275	774209	773758	0.11	cps
Neodymium	150-1	72626	73031	71969	72542	0.74	cps
Neodymium	150-2	45470	45864	45273	45536	0.66	cps
Nickel	60-2	31336	31293	30534	31054	1.45	cps
Phosphorus	31-2	30878	30527	31606	31004	1.77	cps
Potassium	39-2	1893859	1840167	1875800	1869942	1.46	cps
Rhodium	103-1	12151456	12022939	11997902	12057432	0.68	cps
Rhodium	103-2	7363268	7269490	7277210	7303323	0.71	cps
Scandium	45-1	7398565	7450935	7290433	7379978	1.11	cps
Scandium	45-2	667977	658659	655991	660876	0.95	cps
Selenium	82-1	988	995	948	977	2.59	cps
Selenium	77-2	233	203	190	209	10.63	cps
Selenium	78-2	903	753	880	846	9.55	cps
Silicon	28-1	16965969	17267206	17149591	17127589	0.89	cps
Silver	107-1	713762	716541	716157	715487	0.21	cps
Silver	109-1	683265	684175	679137	682193	0.39	cps
Sodium	23-2	229251	228321	230364	229312	0.45	cps
Strontium	86-1	166854	168667	165495	167005	0.95	cps
Strontium	88-1	1495310	1456215	1473824	1475116	1.33	cps
Sulfur	34-1	827437	835296	825270	829334	0.64	cps
Terbium	159-1	16074840	16062671	16151018	16096176	0.30	cps
Terbium	159-2	11495486	11398127	11452449	11448687	0.43	cps
Thallium	203-1	7052	6838	7159	7016	2.32	cps
Thallium	205-1	16570	16857	16337	16588	1.57	cps
Tin	118-1	175606	174732	174681	175006	0.30	cps
Titanium	47-1	331016	331059	329073	330383	0.34	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:54:14 DataFile Name : 048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	34612	34317	34017	34315	0.87	cps
Vanadium	51-2	137005	136672	136783	136820	0.12	cps
Yttrium	89-1	20412174	20286877	20181647	20293566	0.57	cps
Yttrium	89-2	5843550	5776467	5876398	5832138	0.87	cps
Zinc	66-2	3095412	3053228	3060213	3069618	0.74	cps
Zirconium	90-1	8739	8693	8689	8707	0.32	cps
Zirconium	91-1	1967	1900	2020	1962	3.06	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:57:17 DataFile Name : 049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2772815	2789225	2743564	2768535	0.84	cps
Antimony	121-1	611483	617790	611397	613557	0.60	cps
Arsenic	75-2	62082	60934	60660	61226	1.23	cps
Barium	135-1	617850	626587	620092	621510	0.73	cps
Barium	137-1	1081223	1076276	1069929	1075810	0.53	cps
Beryllium	9-1	1407	1313	1330	1350	3.69	cps
Bismuth	209-1	18288316	18216098	18505468	18336627	0.82	cps
Bismuth	209-2	16049382	15887465	15615160	15850669	1.38	cps
Bromine	81-1	19233	19396	19994	19541	2.05	cps
Bromine	81-2	697	617	617	643	7.18	cps
Cadmium	108-1	11014	11281	11114	11137	1.21	cps
Cadmium	106-1	42569	41964	43478	42670	1.79	cps
Cadmium	111-1	146568	146806	146852	146742	0.10	cps
Calcium	43-1	132468	134711	134338	133839	0.90	cps
Calcium	44-1	2154242	2170371	2110882	2145165	1.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36020	36063	36046	36043	0.06	cps
Cobalt	59-2	197470	197387	199709	198189	0.66	cps
Copper	63-2	53279489	53000653	53214186	53164776	0.27	cps
Dysprosium	156-1	54602	53940	53545	54029	0.99	cps
Dysprosium	156-2	47697	48610	47406	47905	1.31	cps
Erbium	164-1	44002	44517	45026	44515	1.15	cps
Erbium	164-2	32441	32675	31582	32233	1.78	cps
Gadolinium	160-1	48363	48838	48550	48584	0.49	cps
Gadolinium	160-2	36524	37527	36070	36707	2.03	cps
Holmium	165-1	15884931	15337785	15797470	15673395	1.88	cps
Holmium	165-2	11784861	11687620	11399884	11624121	1.72	cps
Indium	115-1	12646489	12348819	12828507	12607938	1.92	cps
Indium	115-2	5206554	5245857	5151399	5201270	0.91	cps
Iron	56-2	351707595	349497101	345926835	349043844	0.84	cps
Iron	57-2	8647655	8685346	8527927	8620310	0.95	cps
Iron	54-2	19292974	19200266	18869824	19121022	1.16	cps
Krypton	83-1	297	297	250	281	9.58	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:57:17 DataFile Name : 049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	234846717	236371850	236260496	235826354	0.36	cps
Lead	207-1	201578877	200274364	201310650	201054630	0.34	cps
Lead	208-1	932328359	934108473	932995859	933144231	0.10	cps
Lithium	6-1	1592090	1577240	1629674	1599668	1.69	cps
Magnesium	24-2	2408836	2454083	2375679	2412866	1.63	cps
Manganese	55-2	96226872	95069465	94717472	95337936	0.83	cps
Molybdenum	94-1	362792	364717	362853	363454	0.30	cps
Molybdenum	95-1	619412	621071	625769	622084	0.53	cps
Molybdenum	96-1	673686	679448	674454	675863	0.46	cps
Molybdenum	97-1	391671	391031	389557	390753	0.28	cps
Molybdenum	98-1	984440	990988	996099	990509	0.59	cps
Neodymium	150-1	80199	79472	81473	80382	1.26	cps
Neodymium	150-2	50647	49988	50339	50325	0.66	cps
Nickel	60-2	18141	17737	17751	17876	1.28	cps
Phosphorus	31-2	20334	20400	19980	20238	1.12	cps
Potassium	39-2	794069	798491	793775	795445	0.33	cps
Rhodium	103-1	12051151	11594262	12142245	11929220	2.46	cps
Rhodium	103-2	7508172	7403534	7351899	7421201	1.07	cps
Scandium	45-1	7300733	7135186	7335320	7257080	1.47	cps
Scandium	45-2	679252	672507	663843	671867	1.15	cps
Selenium	82-1	2271	2211	2350	2278	3.07	cps
Selenium	77-2	360	337	410	369	10.16	cps
Selenium	78-2	1303	1313	1333	1317	1.16	cps
Silicon	28-1	21855841	21882930	21956295	21898355	0.24	cps
Silver	107-1	2644964	2691192	2658985	2665047	0.89	cps
Silver	109-1	2531150	2565172	2544844	2547055	0.67	cps
Sodium	23-2	110288	109925	111577	110597	0.79	cps
Strontium	86-1	156016	153827	155683	155175	0.76	cps
Strontium	88-1	1363265	1351644	1357165	1357358	0.43	cps
Sulfur	34-1	905706	903572	892042	900440	0.82	cps
Terbium	159-1	16180329	15490011	16386575	16018971	2.93	cps
Terbium	159-2	11663183	11449032	11296807	11469674	1.60	cps
Thallium	203-1	7082	7075	7029	7062	0.41	cps
Thallium	205-1	16350	16684	16330	16454	1.21	cps
Tin	118-1	1365436	1372829	1364863	1367710	0.32	cps
Titanium	47-1	98253	99045	98414	98570	0.42	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 15:57:17 DataFile Name : 049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	66914	66814	66432	66720	0.38	cps
Vanadium	51-2	120365	121679	119418	120487	0.94	cps
Yttrium	89-1	20523239	19877908	20494907	20298685	1.80	cps
Yttrium	89-2	6035131	5949708	5941296	5975378	0.87	cps
Zinc	66-2	8324981	8340912	8277791	8314561	0.39	cps
Zirconium	90-1	17891	17247	17714	17617	1.89	cps
Zirconium	91-1	3937	3837	3851	3875	1.40	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:00:24 DataFile Name : 050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1016827	1017834	1014798	1016486	0.15	cps
Antimony	121-1	766552	767807	755700	763353	0.87	cps
Arsenic	75-2	968447	966512	967663	967541	0.10	cps
Barium	135-1	462567	464277	466784	464543	0.46	cps
Barium	137-1	804502	811122	811793	809139	0.50	cps
Beryllium	9-1	967	950	1013	977	3.36	cps
Bismuth	209-1	12664601	12678379	12421455	12588145	1.15	cps
Bismuth	209-2	10579197	10717909	10486855	10594654	1.10	cps
Bromine	81-1	16790	17544	16836	17057	2.48	cps
Bromine	81-2	457	520	527	501	7.71	cps
Cadmium	108-1	3174	3464	3320	3319	4.37	cps
Cadmium	106-1	30375	30479	29660	30171	1.48	cps
Cadmium	111-1	43903	42768	43395	43355	1.31	cps
Calcium	43-1	6663658	6598955	6519190	6593935	1.10	cps
Calcium	44-1	107256038	107148862	105441078	106615326	0.96	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38706	38696	38803	38735	0.15	cps
Cobalt	59-2	70337	69446	69563	69782	0.69	cps
Copper	63-2	12984992	12892000	12884316	12920436	0.43	cps
Dysprosium	156-1	24685	25323	24248	24752	2.18	cps
Dysprosium	156-2	21143	21426	21193	21254	0.71	cps
Erbium	164-1	21006	21613	21303	21307	1.43	cps
Erbium	164-2	15042	15272	15278	15197	0.89	cps
Gadolinium	160-1	23961	24819	23860	24213	2.18	cps
Gadolinium	160-2	18469	18365	18335	18390	0.38	cps
Holmium	165-1	15875132	15728366	15833575	15812358	0.48	cps
Holmium	165-2	11132449	11253480	11127378	11171102	0.64	cps
Indium	115-1	12485615	12291575	12282656	12353282	0.93	cps
Indium	115-2	4756096	4745475	4730223	4743931	0.27	cps
Iron	56-2	170417394	170903174	169875724	170398764	0.30	cps
Iron	57-2	4415824	4414628	4438043	4422832	0.30	cps
Iron	54-2	9284342	9314205	9283231	9293926	0.19	cps
Krypton	83-1	213	217	187	206	8.00	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:00:24 DataFile Name : 050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	119728505	122242885	122016818	121329403	1.15	cps
Lead	207-1	103548922	104436208	103378638	103787923	0.55	cps
Lead	208-1	474844030	480170903	479742953	478252628	0.62	cps
Lithium	6-1	1686362	1667581	1699765	1684569	0.96	cps
Magnesium	24-2	944442	937802	937598	939947	0.41	cps
Manganese	55-2	10430786	10458474	10584752	10491337	0.78	cps
Molybdenum	94-1	107565	108280	107386	107744	0.44	cps
Molybdenum	95-1	179425	176837	178021	178094	0.73	cps
Molybdenum	96-1	195805	194384	194607	194932	0.39	cps
Molybdenum	97-1	111528	112858	111638	112008	0.66	cps
Molybdenum	98-1	287569	287252	281156	285326	1.27	cps
Neodymium	150-1	31646	31422	31445	31504	0.39	cps
Neodymium	150-2	19427	19443	19317	19396	0.36	cps
Nickel	60-2	18395	18398	18802	18532	1.26	cps
Phosphorus	31-2	9376	9240	9210	9275	0.96	cps
Potassium	39-2	608663	612981	612147	611264	0.37	cps
Rhodium	103-1	11399512	11355984	11179954	11311817	1.03	cps
Rhodium	103-2	6668591	6662187	6572953	6634577	0.81	cps
Scandium	45-1	7011596	6950649	6844620	6935622	1.22	cps
Scandium	45-2	579492	573793	577330	576871	0.50	cps
Selenium	82-1	1499	1501	1490	1497	0.39	cps
Selenium	77-2	183	150	147	160	12.67	cps
Selenium	78-2	777	843	847	822	4.80	cps
Silicon	28-1	11820818	11745945	11393114	11653292	1.96	cps
Silver	107-1	1358511	1348101	1341564	1349392	0.63	cps
Silver	109-1	1293567	1285136	1289673	1289459	0.33	cps
Sodium	23-2	160648	161345	161645	161212	0.32	cps
Strontium	86-1	341717	339405	338901	340008	0.44	cps
Strontium	88-1	3119882	3081651	3046759	3082764	1.19	cps
Sulfur	34-1	808415	811601	789772	803262	1.47	cps
Terbium	159-1	15955361	16002304	15804507	15920724	0.65	cps
Terbium	159-2	11143530	11018024	11040106	11067220	0.61	cps
Thallium	203-1	20228	20382	20532	20381	0.75	cps
Thallium	205-1	46904	47051	48232	47396	1.54	cps
Tin	118-1	787627	795807	787215	790216	0.61	cps
Titanium	47-1	44382	45565	44315	44754	1.57	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:00:24 DataFile Name : 050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	28173	29446	28731	28783	2.22	cps
Vanadium	51-2	52056	52497	52671	52408	0.61	cps
Yttrium	89-1	19627510	19307453	19011425	19315462	1.60	cps
Yttrium	89-2	5326695	5287733	5282859	5299095	0.45	cps
Zinc	66-2	2700322	2695110	2685974	2693802	0.27	cps
Zirconium	90-1	14317	14120	13753	14063	2.03	cps
Zirconium	91-1	4687	4484	4604	4592	2.23	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:03:27 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1614400	1637483	1608504	1620129	0.95	cps
Antimony	121-1	130455	132214	132984	131884	0.98	cps
Arsenic	75-2	54218	52613	51680	52837	2.43	cps
Barium	135-1	687909	699958	700844	696237	1.04	cps
Barium	137-1	1197388	1221701	1224134	1214408	1.22	cps
Beryllium	9-1	2360	2224	2190	2258	3.99	cps
Bismuth	209-1	10193468	10131989	10139627	10155028	0.33	cps
Bismuth	209-2	8665721	8601433	8684202	8650452	0.50	cps
Bromine	81-1	18044	17921	18712	18226	2.33	cps
Bromine	81-2	647	630	590	622	4.68	cps
Cadmium	108-1	1093	1067	1177	1112	5.16	cps
Cadmium	106-1	27610	27803	28615	28009	1.90	cps
Cadmium	111-1	15085	14876	15241	15067	1.21	cps
Calcium	43-1	106815	109109	109307	108410	1.28	cps
Calcium	44-1	1690499	1726160	1749975	1722211	1.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	59657	58242	59098	58999	1.21	cps
Cobalt	59-2	46348	46672	46502	46507	0.35	cps
Copper	63-2	2262761	2275017	2247225	2261668	0.62	cps
Dysprosium	156-1	49862	51079	50025	50322	1.31	cps
Dysprosium	156-2	45978	46246	45637	45954	0.66	cps
Erbium	164-1	35097	35415	34964	35159	0.66	cps
Erbium	164-2	25904	25583	25443	25644	0.92	cps
Gadolinium	160-1	46286	47527	47487	47100	1.50	cps
Gadolinium	160-2	36130	35806	35842	35926	0.49	cps
Holmium	165-1	16065095	15929576	15701068	15898580	1.16	cps
Holmium	165-2	11502500	11482941	11474534	11486658	0.12	cps
Indium	115-1	12822372	12932457	12926964	12893931	0.48	cps
Indium	115-2	5181160	5147365	5118953	5149159	0.60	cps
Iron	56-2	239841910	239875816	238173823	239297183	0.41	cps
Iron	57-2	5925778	5985566	5901918	5937754	0.73	cps
Iron	54-2	13075664	13053164	13039077	13055969	0.14	cps
Krypton	83-1	233	220	233	229	3.36	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:03:27 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	76722456	76628809	76809439	76720234	0.12	cps
Lead	207-1	66982221	66445572	67041316	66823036	0.49	cps
Lead	208-1	307024450	305009979	306538465	306190965	0.34	cps
Lithium	6-1	1662063	1631828	1605439	1633110	1.73	cps
Magnesium	24-2	1263485	1263735	1276409	1267876	0.58	cps
Manganese	55-2	27460329	27722432	27592999	27591920	0.47	cps
Molybdenum	94-1	128787	129513	131639	129980	1.14	cps
Molybdenum	95-1	219173	222425	225332	222310	1.39	cps
Molybdenum	96-1	239660	242661	246338	242886	1.38	cps
Molybdenum	97-1	137991	139586	141494	139690	1.26	cps
Molybdenum	98-1	353460	358866	360298	357541	1.01	cps
Neodymium	150-1	75042	77119	77608	76590	1.78	cps
Neodymium	150-2	48868	49517	48563	48983	0.99	cps
Nickel	60-2	7288	7359	7262	7303	0.68	cps
Phosphorus	31-2	22520	23378	23168	23022	1.94	cps
Potassium	39-2	592371	599162	597675	596403	0.60	cps
Rhodium	103-1	11760887	11845594	12051186	11885889	1.26	cps
Rhodium	103-2	7393375	7380339	7296544	7356753	0.71	cps
Scandium	45-1	7062705	7119981	7211282	7131323	1.05	cps
Scandium	45-2	648930	653996	653463	652130	0.43	cps
Selenium	82-1	814	837	814	821	1.63	cps
Selenium	77-2	190	177	177	181	4.25	cps
Selenium	78-2	700	743	710	718	3.16	cps
Silicon	28-1	11941419	12013345	12078219	12010994	0.57	cps
Silver	107-1	381977	386600	386969	385182	0.72	cps
Silver	109-1	366374	366977	367052	366801	0.10	cps
Sodium	23-2	106991	106283	107659	106978	0.64	cps
Strontium	86-1	279786	282751	284426	282321	0.83	cps
Strontium	88-1	2510379	2548290	2493570	2517413	1.11	cps
Sulfur	34-1	425699	430804	430856	429120	0.69	cps
Terbium	159-1	16312819	16262910	16437310	16337679	0.55	cps
Terbium	159-2	11402314	11441652	11528984	11457650	0.57	cps
Thallium	203-1	3604	3357	3417	3459	3.72	cps
Thallium	205-1	8062	8416	8166	8215	2.21	cps
Tin	118-1	17431	17207	17311	17316	0.65	cps
Titanium	47-1	101393	103205	105180	103260	1.83	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:03:27 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	30087	29392	29232	29571	1.54	cps
Vanadium	51-2	58603	57315	57683	57867	1.15	cps
Yttrium	89-1	19799724	20100235	20053775	19984578	0.81	cps
Yttrium	89-2	5777820	5732778	5788596	5766398	0.51	cps
Zinc	66-2	1207007	1214838	1213080	1211642	0.34	cps
Zirconium	90-1	5928	5958	6378	6088	4.13	cps
Zirconium	91-1	1463	1390	1443	1432	2.65	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:06:33 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	317190	318473	317626	317763	0.21	cps
Antimony	121-1	6122252	6097879	6099718	6106616	0.22	cps
Arsenic	75-2	2004376	1987055	1959106	1983512	1.15	cps
Barium	135-1	692904	697454	703901	698087	0.79	cps
Barium	137-1	1220043	1223824	1213288	1219052	0.44	cps
Beryllium	9-1	180	170	160	170	5.88	cps
Bismuth	209-1	33155991	33723119	33382094	33420401	0.85	cps
Bismuth	209-2	28324632	28058135	27871285	28084684	0.81	cps
Bromine	81-1	18078	18782	18278	18379	1.97	cps
Bromine	81-2	347	273	313	311	11.80	cps
Cadmium	108-1	2387	2590	2444	2474	4.24	cps
Cadmium	106-1	29567	30315	29877	29920	1.26	cps
Cadmium	111-1	30061	29950	30179	30064	0.38	cps
Calcium	43-1	8653	8476	8869	8666	2.27	cps
Calcium	44-1	136751	138772	137066	137530	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11818	11464	11448	11577	1.81	cps
Cobalt	59-2	16039	15662	15999	15900	1.30	cps
Copper	63-2	45897239	45529173	45477478	45634630	0.50	cps
Dysprosium	156-1	6725	6558	6795	6693	1.82	cps
Dysprosium	156-2	6398	6665	6545	6536	2.04	cps
Erbium	164-1	3591	3417	3611	3539	3.00	cps
Erbium	164-2	2764	2774	2610	2716	3.37	cps
Gadolinium	160-1	5451	5414	5651	5506	2.31	cps
Gadolinium	160-2	4804	4881	4868	4851	0.84	cps
Holmium	165-1	15995896	15761803	15917509	15891736	0.75	cps
Holmium	165-2	11467996	11445940	11595317	11503084	0.70	cps
Indium	115-1	13754544	13733502	13636733	13708260	0.46	cps
Indium	115-2	5440469	5485182	5392379	5439344	0.85	cps
Iron	56-2	668011950	657407257	657277817	660899008	0.93	cps
Iron	57-2	16578001	16535771	16329728	16481167	0.81	cps
Iron	54-2	36369369	36050625	36103444	36174479	0.47	cps
Krypton	83-1	163	183	227	191	16.94	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:06:33 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	538271005	536175779	534787699	536411494	0.33	cps
Lead	207-1	468422873	463664246	469037673	467041597	0.63	cps
Lead	208-1	2151020555	2148065955	2140411221	2146499244	0.26	cps
Lithium	6-1	1458611	1505296	1485335	1483080	1.58	cps
Magnesium	24-2	100354	106396	97926	101559	4.29	cps
Manganese	55-2	5303720	5267179	5273850	5281583	0.37	cps
Molybdenum	94-1	747807	752434	753271	751171	0.39	cps
Molybdenum	95-1	1303957	1310599	1300850	1305135	0.38	cps
Molybdenum	96-1	1399591	1462507	1456608	1439569	2.41	cps
Molybdenum	97-1	813402	821367	822060	818943	0.59	cps
Molybdenum	98-1	2137340	2154547	2164506	2152131	0.64	cps
Neodymium	150-1	13190	13370	13413	13324	0.89	cps
Neodymium	150-2	8353	8273	8486	8370	1.29	cps
Nickel	60-2	2847	2764	2610	2740	4.38	cps
Phosphorus	31-2	11564	11204	11077	11282	2.24	cps
Potassium	39-2	2510307	2488509	2496864	2498560	0.44	cps
Rhodium	103-1	12274464	12364540	12264376	12301127	0.45	cps
Rhodium	103-2	7478714	7436396	7375286	7430132	0.70	cps
Scandium	45-1	7289578	7260121	7245574	7265091	0.31	cps
Scandium	45-2	671341	667241	667049	668544	0.36	cps
Selenium	82-1	3478	3637	3537	3551	2.26	cps
Selenium	77-2	480	413	423	439	8.19	cps
Selenium	78-2	1750	1693	1730	1725	1.67	cps
Silicon	28-1	6501710	6621644	6548318	6557224	0.92	cps
Silver	107-1	2497767	2505247	2502041	2501685	0.15	cps
Silver	109-1	2407801	2381291	2385861	2391651	0.59	cps
Sodium	23-2	125976	135208	125586	128924	4.22	cps
Strontium	86-1	174639	178210	177938	176929	1.12	cps
Strontium	88-1	1568875	1581206	1585070	1578384	0.54	cps
Sulfur	34-1	1919129	1971845	1946246	1945740	1.35	cps
Terbium	159-1	16484535	16425894	16197509	16369313	0.93	cps
Terbium	159-2	11321780	11280377	11428809	11343655	0.68	cps
Thallium	203-1	48329	48871	48566	48589	0.56	cps
Thallium	205-1	114019	114722	113690	114144	0.46	cps
Tin	118-1	674474	691416	687868	684586	1.31	cps
Titanium	47-1	10677	10671	10537	10628	0.74	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:06:33 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19117	19488	19261	19289	0.97	cps
Vanadium	51-2	106955	107872	106703	107177	0.57	cps
Yttrium	89-1	20078456	20056970	20298435	20144620	0.66	cps
Yttrium	89-2	5788351	5709189	5758893	5752144	0.70	cps
Zinc	66-2	3028764	3001978	3019422	3016721	0.45	cps
Zirconium	90-1	3420	3307	3187	3305	3.53	cps
Zirconium	91-1	3264	3444	3297	3335	2.87	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:09:34 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	645040	647450	637867	643452	0.77	cps
Antimony	121-1	2727828	2757739	2751181	2745582	0.57	cps
Arsenic	75-2	931221	930901	932274	931465	0.08	cps
Barium	135-1	348699	348418	349297	348805	0.13	cps
Barium	137-1	609382	600677	603385	604481	0.74	cps
Beryllium	9-1	267	300	263	277	7.33	cps
Bismuth	209-1	23403052	23318451	23352334	23357946	0.18	cps
Bismuth	209-2	20173342	20152467	19911173	20078994	0.73	cps
Bromine	81-1	18862	18538	18395	18599	1.29	cps
Bromine	81-2	417	420	387	408	4.50	cps
Cadmium	108-1	20768	20458	20838	20688	0.98	cps
Cadmium	106-1	56443	55549	55385	55792	1.02	cps
Cadmium	111-1	269473	270563	270025	270020	0.20	cps
Calcium	43-1	26717	27448	27852	27339	2.11	cps
Calcium	44-1	449607	450108	444703	448139	0.67	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19786	20057	20350	20064	1.41	cps
Cobalt	59-2	85686	86484	86712	86294	0.62	cps
Copper	63-2	38669309	38392079	38813304	38624897	0.55	cps
Dysprosium	156-1	11128	10868	11108	11034	1.31	cps
Dysprosium	156-2	9930	10261	10010	10067	1.71	cps
Erbium	164-1	8006	8069	7979	8018	0.58	cps
Erbium	164-2	5998	5765	5444	5736	4.85	cps
Gadolinium	160-1	9790	10174	10060	10008	1.97	cps
Gadolinium	160-2	8169	8049	7992	8070	1.12	cps
Holmium	165-1	16252313	15817524	15935448	16001761	1.41	cps
Holmium	165-2	11715471	11545201	11484676	11581783	1.03	cps
Indium	115-1	13799465	13634600	13718175	13717413	0.60	cps
Indium	115-2	5422948	5421404	5347958	5397436	0.79	cps
Iron	56-2	691401803	691463216	688572816	690479279	0.24	cps
Iron	57-2	17086845	17134825	17067984	17096551	0.20	cps
Iron	54-2	37646121	37494508	37659050	37599893	0.24	cps
Krypton	83-1	200	217	253	223	12.22	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:09:34 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	507382112	506471219	500125913	504659748	0.78	cps
Lead	207-1	431210794	434552514	436204100	433989136	0.59	cps
Lead	208-1	2004303450	2024073637	2001565570	2009980886	0.61	cps
Lithium	6-1	1557366	1496896	1475918	1510060	2.80	cps
Magnesium	24-2	350420	348749	347621	348930	0.40	cps
Manganese	55-2	14815900	14699590	14708489	14741326	0.44	cps
Molybdenum	94-1	649488	655795	644015	649766	0.91	cps
Molybdenum	95-1	1125060	1126907	1134769	1128912	0.46	cps
Molybdenum	96-1	1225880	1228492	1217628	1224000	0.46	cps
Molybdenum	97-1	710844	710539	709660	710348	0.09	cps
Molybdenum	98-1	1849990	1865391	1871898	1862426	0.60	cps
Neodymium	150-1	17267	17247	17100	17205	0.53	cps
Neodymium	150-2	10758	10567	10961	10762	1.83	cps
Nickel	60-2	7322	6938	6835	7032	3.65	cps
Phosphorus	31-2	10447	10404	10087	10312	1.91	cps
Potassium	39-2	2298512	2262489	2266308	2275770	0.87	cps
Rhodium	103-1	12199933	12267937	12239603	12235824	0.28	cps
Rhodium	103-2	7422991	7457204	7378988	7419728	0.53	cps
Scandium	45-1	7296025	7303802	7211394	7270407	0.70	cps
Scandium	45-2	667664	665652	662622	665313	0.38	cps
Selenium	82-1	2983	3059	2888	2977	2.88	cps
Selenium	77-2	380	290	357	342	13.65	cps
Selenium	78-2	1487	1413	1510	1470	3.43	cps
Silicon	28-1	7028737	7070506	7009032	7036092	0.45	cps
Silver	107-1	2758370	2719862	2736039	2738090	0.71	cps
Silver	109-1	2601337	2665315	2603647	2623433	1.38	cps
Sodium	23-2	124468	125059	123614	124380	0.58	cps
Strontium	86-1	127644	129389	127250	128094	0.89	cps
Strontium	88-1	1126013	1131783	1126859	1128218	0.28	cps
Sulfur	34-1	2749070	2790814	2765349	2768411	0.76	cps
Terbium	159-1	16548921	16306360	16227402	16360894	1.02	cps
Terbium	159-2	11425598	11507935	11303454	11412329	0.90	cps
Thallium	203-1	35904	36338	35827	36023	0.77	cps
Thallium	205-1	85030	84141	84436	84536	0.54	cps
Tin	118-1	651516	648127	650261	649968	0.26	cps
Titanium	47-1	13466	14170	14063	13900	2.73	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:09:34 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	31177	31828	32232	31746	1.68	cps
Vanadium	51-2	100612	101964	100777	101118	0.73	cps
Yttrium	89-1	20219957	20361230	20255952	20279047	0.36	cps
Yttrium	89-2	5822194	5836915	5795980	5818363	0.36	cps
Zinc	66-2	19786561	19678898	19697220	19720893	0.29	cps
Zirconium	90-1	4694	4754	4431	4626	3.72	cps
Zirconium	91-1	2437	2387	2307	2377	2.76	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:12:41 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1882225	1900631	1895571	1892809	0.50	cps
Antimony	121-1	950177	956044	950379	952200	0.35	cps
Arsenic	75-2	161147	162084	161491	161574	0.29	cps
Barium	135-1	899552	899901	902280	900578	0.16	cps
Barium	137-1	1649173	1641403	1624655	1638410	0.76	cps
Beryllium	9-1	540	570	543	551	2.98	cps
Bismuth	209-1	18583555	18636605	18750071	18656744	0.46	cps
Bismuth	209-2	15949214	15966633	15769044	15894964	0.69	cps
Bromine	81-1	19520	19873	20337	19910	2.06	cps
Bromine	81-2	783	873	817	824	5.52	cps
Cadmium	108-1	1927	1787	1967	1893	4.99	cps
Cadmium	106-1	29948	29907	29380	29745	1.07	cps
Cadmium	111-1	25175	26007	25431	25538	1.67	cps
Calcium	43-1	77453	78267	76666	77462	1.03	cps
Calcium	44-1	1266941	1263641	1256409	1262330	0.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	120422	119955	120022	120133	0.21	cps
Cobalt	59-2	77298	77757	76450	77168	0.86	cps
Copper	63-2	22108965	22029197	21922441	22020201	0.43	cps
Dysprosium	156-1	30319	31265	30687	30757	1.55	cps
Dysprosium	156-2	28716	29053	28275	28682	1.36	cps
Erbium	164-1	20268	20592	19948	20269	1.59	cps
Erbium	164-2	14611	14721	14611	14648	0.43	cps
Gadolinium	160-1	24979	25633	25376	25330	1.30	cps
Gadolinium	160-2	19794	19590	19754	19713	0.55	cps
Holmium	165-1	15953272	16104327	16020526	16026042	0.47	cps
Holmium	165-2	11450152	11442814	11389780	11427582	0.29	cps
Indium	115-1	13186340	13191024	13101937	13159767	0.38	cps
Indium	115-2	5248888	5203924	5238432	5230414	0.45	cps
Iron	56-2	721640843	733066016	724594896	726433918	0.82	cps
Iron	57-2	18278465	18012221	17800152	18030279	1.33	cps
Iron	54-2	39883433	39788534	39689436	39787134	0.24	cps
Krypton	83-1	213	203	270	229	15.71	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:12:41 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	444427780	441745473	446294327	444155860	0.51	cps
Lead	207-1	380021368	380145914	378679661	379615648	0.21	cps
Lead	208-1	1764018280	1753236974	1764695840	1760650365	0.37	cps
Lithium	6-1	1534802	1507674	1502296	1514924	1.15	cps
Magnesium	24-2	1664688	1635790	1635695	1645391	1.02	cps
Manganese	55-2	8551368	8586949	8569677	8569331	0.21	cps
Molybdenum	94-1	354109	352079	353326	353171	0.29	cps
Molybdenum	95-1	605495	606928	606130	606184	0.12	cps
Molybdenum	96-1	662617	669070	664409	665365	0.50	cps
Molybdenum	97-1	378981	378584	381424	379663	0.41	cps
Molybdenum	98-1	975742	975370	967964	973025	0.45	cps
Neodymium	150-1	48804	48988	48972	48921	0.21	cps
Neodymium	150-2	31619	31371	30877	31289	1.21	cps
Nickel	60-2	30618	30661	31393	30891	1.41	cps
Phosphorus	31-2	32144	31740	31806	31897	0.68	cps
Potassium	39-2	887437	881927	882199	883854	0.35	cps
Rhodium	103-1	12299466	12181774	12083329	12188190	0.89	cps
Rhodium	103-2	7501172	7443413	7457923	7467503	0.40	cps
Scandium	45-1	7363362	7318125	7277792	7319760	0.58	cps
Scandium	45-2	667349	667312	667740	667467	0.04	cps
Selenium	82-1	2641	2748	2461	2617	5.53	cps
Selenium	77-2	270	407	303	327	21.82	cps
Selenium	78-2	1613	1400	1537	1517	7.13	cps
Silicon	28-1	9205146	9210492	9173642	9196427	0.22	cps
Silver	107-1	2356484	2364628	2361794	2360968	0.18	cps
Silver	109-1	2276995	2211246	2270545	2252929	1.61	cps
Sodium	23-2	184248	185087	184450	184595	0.24	cps
Strontium	86-1	155036	155804	154746	155196	0.35	cps
Strontium	88-1	1361528	1362740	1361982	1362083	0.04	cps
Sulfur	34-1	1205408	1238552	1185239	1209733	2.23	cps
Terbium	159-1	16357452	16488196	16593254	16479634	0.72	cps
Terbium	159-2	11469686	11272978	11311377	11351347	0.92	cps
Thallium	203-1	7032	7052	7312	7132	2.19	cps
Thallium	205-1	16837	16841	16874	16851	0.12	cps
Tin	118-1	549339	552664	551145	551049	0.30	cps
Titanium	47-1	186857	184953	184939	185583	0.59	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:12:41 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	44387	43956	44217	44187	0.49	cps
Vanadium	51-2	135296	133982	134233	134504	0.52	cps
Yttrium	89-1	20294913	20243138	20557702	20365251	0.83	cps
Yttrium	89-2	5972482	5883587	5826172	5894080	1.25	cps
Zinc	66-2	2015873	2028753	2016606	2020411	0.36	cps
Zirconium	90-1	12856	13003	12559	12806	1.77	cps
Zirconium	91-1	3177	3170	3117	3155	1.04	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:15:45 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3675975	3702652	3677391	3685339	0.41	cps
Antimony	121-1	170843	170667	173692	171734	0.99	cps
Arsenic	75-2	64091	62655	63056	63267	1.17	cps
Barium	135-1	814559	823442	830156	822719	0.95	cps
Barium	137-1	1412159	1430393	1442702	1428418	1.08	cps
Beryllium	9-1	1240	1147	1257	1215	4.88	cps
Bismuth	209-1	10574535	10355239	10101645	10343807	2.29	cps
Bismuth	209-2	8763163	8863206	8823893	8816754	0.57	cps
Bromine	81-1	21032	22013	21336	21460	2.34	cps
Bromine	81-2	1097	1090	1030	1072	3.42	cps
Cadmium	108-1	5474	5521	5581	5526	0.97	cps
Cadmium	106-1	35370	35513	35106	35330	0.59	cps
Cadmium	111-1	70825	72709	73196	72243	1.73	cps
Calcium	43-1	147687	147118	148663	147823	0.53	cps
Calcium	44-1	2357078	2368722	2358726	2361509	0.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	72161	72275	72232	72223	0.08	cps
Cobalt	59-2	120841	119450	119249	119847	0.72	cps
Copper	63-2	4213175	4243615	4167943	4208244	0.90	cps
Dysprosium	156-1	63339	66389	65431	65053	2.40	cps
Dysprosium	156-2	60905	60399	60275	60526	0.55	cps
Erbium	164-1	43745	45006	43882	44211	1.56	cps
Erbium	164-2	32468	32307	31773	32183	1.13	cps
Gadolinium	160-1	56718	56734	57086	56846	0.37	cps
Gadolinium	160-2	44627	43925	42926	43826	1.95	cps
Holmium	165-1	16641141	16209479	16011452	16287357	1.98	cps
Holmium	165-2	11708895	11702699	11568305	11659966	0.68	cps
Indium	115-1	13499022	13211631	13300797	13337150	1.10	cps
Indium	115-2	5232878	5275916	5237204	5248666	0.45	cps
Iron	56-2	393808287	393728501	391046394	392861061	0.40	cps
Iron	57-2	9698479	9709811	9630703	9679664	0.44	cps
Iron	54-2	21602307	21343504	21308529	21418113	0.75	cps
Krypton	83-1	287	280	233	267	10.90	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:15:45 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	52230689	53298138	52659811	52729546	1.02	cps
Lead	207-1	46209219	45687958	46219794	46038990	0.66	cps
Lead	208-1	210402334	211036607	210739574	210726171	0.15	cps
Lithium	6-1	1616710	1514767	1508574	1546684	3.93	cps
Magnesium	24-2	3768812	3804975	3710852	3761546	1.26	cps
Manganese	55-2	11990450	12059446	12065219	12038372	0.35	cps
Molybdenum	94-1	91510	91530	91886	91642	0.23	cps
Molybdenum	95-1	147434	149040	149625	148700	0.76	cps
Molybdenum	96-1	164797	169883	167881	167521	1.53	cps
Molybdenum	97-1	93044	95385	93858	94096	1.26	cps
Molybdenum	98-1	234934	243538	243355	240609	2.04	cps
Neodymium	150-1	108480	108194	107956	108210	0.24	cps
Neodymium	150-2	68334	68813	67360	68169	1.09	cps
Nickel	60-2	20861	20377	20915	20718	1.43	cps
Phosphorus	31-2	49249	49169	48430	48949	0.92	cps
Potassium	39-2	1563605	1606769	1587932	1586102	1.36	cps
Rhodium	103-1	12492075	12303940	12197003	12331006	1.21	cps
Rhodium	103-2	7534437	7421570	7369689	7441899	1.13	cps
Scandium	45-1	7494309	7331424	7232934	7352889	1.80	cps
Scandium	45-2	661243	664938	665334	663838	0.34	cps
Selenium	82-1	957	873	941	924	4.80	cps
Selenium	77-2	227	247	217	230	6.64	cps
Selenium	78-2	813	750	820	794	4.86	cps
Silicon	28-1	14281971	14217311	14437916	14312400	0.79	cps
Silver	107-1	374088	377895	377775	376586	0.57	cps
Silver	109-1	355840	361688	362577	360035	1.02	cps
Sodium	23-2	221942	221567	221888	221799	0.09	cps
Strontium	86-1	245450	248726	248567	247581	0.75	cps
Strontium	88-1	2189449	2253839	2235252	2226180	1.49	cps
Sulfur	34-1	670015	670988	665810	668938	0.41	cps
Terbium	159-1	16804251	16577838	16285085	16555724	1.57	cps
Terbium	159-2	11477761	11441802	11447417	11455660	0.17	cps
Thallium	203-1	4838	5124	5284	5082	4.45	cps
Thallium	205-1	11945	12172	11899	12005	1.22	cps
Tin	118-1	35541	36165	35878	35861	0.87	cps
Titanium	47-1	273576	277400	273063	274680	0.86	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:15:45 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	62681	64522	63688	63630	1.45	cps
Vanadium	51-2	197807	199388	197707	198301	0.48	cps
Yttrium	89-1	21537925	20748549	20776018	21020831	2.13	cps
Yttrium	89-2	5917039	5964299	5886147	5922495	0.66	cps
Zinc	66-2	5902675	5930855	5846728	5893419	0.73	cps
Zirconium	90-1	15138	15552	15712	15467	1.91	cps
Zirconium	91-1	3417	3354	3500	3424	2.15	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:18:49 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1026339	1028306	1033357	1029334	0.35	cps
Antimony	121-1	8252103	8307643	8272359	8277368	0.34	cps
Arsenic	75-2	2226536	2236056	2170742	2211111	1.60	cps
Barium	135-1	775988	781439	781615	779680	0.41	cps
Barium	137-1	1353136	1364117	1360101	1359118	0.41	cps
Beryllium	9-1	493	473	403	457	10.35	cps
Bismuth	209-1	53117218	52407073	53877374	53133888	1.38	cps
Bismuth	209-2	45741466	44545091	44843988	45043515	1.38	cps
Bromine	81-1	19423	20468	20688	20193	3.35	cps
Bromine	81-2	823	693	617	711	14.69	cps
Cadmium	108-1	7532	7632	7729	7631	1.29	cps
Cadmium	106-1	37244	36833	37960	37346	1.53	cps
Cadmium	111-1	92200	92048	91214	91821	0.58	cps
Calcium	43-1	71561	72770	72284	72205	0.84	cps
Calcium	44-1	1140959	1146846	1153887	1147231	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	56552	55368	55709	55876	1.09	cps
Cobalt	59-2	40498	40127	40906	40510	0.96	cps
Copper	63-2	87542659	86680129	87009252	87077346	0.50	cps
Dysprosium	156-1	22982	23036	23086	23035	0.22	cps
Dysprosium	156-2	21817	22154	22301	22091	1.12	cps
Erbium	164-1	15021	14741	14608	14790	1.43	cps
Erbium	164-2	10597	10884	10481	10654	1.95	cps
Gadolinium	160-1	19036	19187	18873	19032	0.82	cps
Gadolinium	160-2	14908	14738	14768	14805	0.61	cps
Holmium	165-1	16074531	16223337	16161802	16153223	0.46	cps
Holmium	165-2	11698296	11575759	11524879	11599645	0.77	cps
Indium	115-1	14292835	14523295	14547102	14454411	0.97	cps
Indium	115-2	5740239	5699989	5688060	5709429	0.48	cps
Iron	56-2	976347345	988170519	972166412	978894759	0.85	cps
Iron	57-2	24105553	24131728	23990272	24075851	0.31	cps
Iron	54-2	53849484	53614456	53377619	53613853	0.44	cps
Krypton	83-1	210	197	217	208	4.90	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:18:49 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1144156730	1133142170	1145009450	1140769450	0.58	cps
Lead	207-1	982932839	980961612	976081719	979992057	0.36	cps
Lead	208-1	4507798973	4541924866	4533035666	4527586501	0.39	cps
Lithium	6-1	1390881	1406202	1373706	1390263	1.17	cps
Magnesium	24-2	511607	513206	510492	511768	0.27	cps
Manganese	55-2	11476690	11579025	11418899	11491538	0.71	cps
Molybdenum	94-1	2108115	2150083	2139325	2132508	1.02	cps
Molybdenum	95-1	3674605	3711761	3754080	3713482	1.07	cps
Molybdenum	96-1	3974855	4012586	4013341	4000261	0.55	cps
Molybdenum	97-1	2310481	2312451	2304950	2309294	0.17	cps
Molybdenum	98-1	5997095	6022749	5944079	5987974	0.67	cps
Neodymium	150-1	37917	37827	38125	37957	0.40	cps
Neodymium	150-2	23510	23693	23693	23632	0.45	cps
Nickel	60-2	7559	7949	7996	7834	3.06	cps
Phosphorus	31-2	17283	17427	17370	17360	0.42	cps
Potassium	39-2	1603925	1594013	1593255	1597064	0.37	cps
Rhodium	103-1	12391612	12383419	12486233	12420421	0.46	cps
Rhodium	103-2	7656655	7552543	7539876	7583025	0.85	cps
Scandium	45-1	7247578	7283973	7270561	7267371	0.25	cps
Scandium	45-2	689258	684745	682164	685389	0.52	cps
Selenium	82-1	6398	6121	6251	6257	2.21	cps
Selenium	77-2	837	877	760	824	7.19	cps
Selenium	78-2	2984	2824	2967	2925	3.01	cps
Silicon	28-1	8680918	8691544	8765857	8712773	0.53	cps
Silver	107-1	2328837	2391139	2329454	2349810	1.52	cps
Silver	109-1	2218681	2261390	2241383	2240485	0.95	cps
Sodium	23-2	185276	187348	187759	186794	0.71	cps
Strontium	86-1	1205881	1207445	1212900	1208742	0.30	cps
Strontium	88-1	10847973	10939464	11083745	10957061	1.08	cps
Sulfur	34-1	2197674	2192866	2198561	2196367	0.14	cps
Terbium	159-1	16574364	16759017	16513733	16615705	0.77	cps
Terbium	159-2	11445896	11482755	11445520	11458057	0.19	cps
Thallium	203-1	38795	39457	39551	39268	1.05	cps
Thallium	205-1	94622	93360	93629	93870	0.71	cps
Tin	118-1	841447	851133	842945	845175	0.62	cps
Titanium	47-1	60688	61494	61471	61218	0.75	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:18:49 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	94842	96111	94665	95206	0.83	cps
Vanadium	51-2	156367	155868	154622	155619	0.58	cps
Yttrium	89-1	20470959	20511160	20739698	20573939	0.70	cps
Yttrium	89-2	5929966	5946627	5918343	5931646	0.24	cps
Zinc	66-2	7857600	7863157	7782350	7834369	0.58	cps
Zirconium	90-1	17481	17761	17754	17665	0.91	cps
Zirconium	91-1	7032	7058	6972	7021	0.63	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-12 Instrumnet Name : P7
Client Sample ID : MH2D59 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:21:49 DataFile Name : 057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2291555	2315006	2274329	2293630	0.89	cps
Antimony	121-1	151394	149458	150269	150374	0.65	cps
Arsenic	75-2	39108	38854	39178	39047	0.44	cps
Barium	135-1	479849	479010	479826	479562	0.10	cps
Barium	137-1	835276	824977	833867	831373	0.67	cps
Beryllium	9-1	2354	2220	2357	2310	3.38	cps
Bismuth	209-1	9931133	9973048	9916814	9940331	0.29	cps
Bismuth	209-2	8572213	8524574	8510484	8535757	0.38	cps
Bromine	81-1	19536	19863	19907	19769	1.02	cps
Bromine	81-2	760	733	660	718	7.21	cps
Cadmium	108-1	1880	1840	1907	1876	1.79	cps
Cadmium	106-1	30235	30672	29911	30273	1.26	cps
Cadmium	111-1	23804	24020	23897	23907	0.45	cps
Calcium	43-1	87363	87272	86853	87163	0.31	cps
Calcium	44-1	1393688	1410789	1388155	1397544	0.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50411	49564	50139	50038	0.86	cps
Cobalt	59-2	64193	64317	65904	64805	1.47	cps
Copper	63-2	3422161	3421046	3422457	3421888	0.02	cps
Dysprosium	156-1	52066	50902	51741	51570	1.17	cps
Dysprosium	156-2	45169	45577	46015	45587	0.93	cps
Erbium	164-1	41762	41344	41435	41514	0.53	cps
Erbium	164-2	30634	29889	30059	30194	1.29	cps
Gadolinium	160-1	51233	50832	50089	50718	1.14	cps
Gadolinium	160-2	38423	38824	38753	38667	0.55	cps
Holmium	165-1	16220325	16156693	16029562	16135527	0.60	cps
Holmium	165-2	11695436	11604830	11716444	11672236	0.51	cps
Indium	115-1	13349666	13276536	13363284	13329829	0.35	cps
Indium	115-2	5283613	5274035	5267544	5275064	0.15	cps
Iron	56-2	235835003	232993123	233152203	233993443	0.68	cps
Iron	57-2	5858079	5817950	5704049	5793359	1.38	cps
Iron	54-2	12921252	12862546	12803306	12862368	0.46	cps
Krypton	83-1	240	237	277	251	8.84	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-12 Instrumnet Name : P7
Client Sample ID : MH2D59 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:21:49 DataFile Name : 057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	36313644	36010212	35875519	36066458	0.62	cps
Lead	207-1	31547482	31490437	31079470	31372463	0.81	cps
Lead	208-1	144354088	143937340	143304481	143865303	0.37	cps
Lithium	6-1	1496092	1507503	1450976	1484857	2.01	cps
Magnesium	24-2	1997040	1946979	1947552	1963857	1.46	cps
Manganese	55-2	13730668	13580572	13552017	13621086	0.70	cps
Molybdenum	94-1	146642	145073	143526	145081	1.07	cps
Molybdenum	95-1	251163	250387	248379	249977	0.57	cps
Molybdenum	96-1	273830	271011	271274	272038	0.57	cps
Molybdenum	97-1	156814	157724	157646	157395	0.32	cps
Molybdenum	98-1	402955	401967	401401	402108	0.20	cps
Neodymium	150-1	75464	74653	75336	75151	0.58	cps
Neodymium	150-2	47941	47058	47055	47351	1.08	cps
Nickel	60-2	13066	13019	13076	13054	0.23	cps
Phosphorus	31-2	23885	24112	23635	23878	1.00	cps
Potassium	39-2	779805	780646	775057	778503	0.39	cps
Rhodium	103-1	12549096	12456844	12461511	12489151	0.42	cps
Rhodium	103-2	7544315	7524208	7474047	7514190	0.48	cps
Scandium	45-1	7491142	7378007	7292031	7387060	1.35	cps
Scandium	45-2	668367	667121	671299	668929	0.32	cps
Selenium	82-1	818	739	752	770	5.53	cps
Selenium	77-2	170	160	170	167	3.46	cps
Selenium	78-2	820	737	870	809	8.33	cps
Silicon	28-1	12753604	12681091	12625271	12686656	0.51	cps
Silver	107-1	277114	275072	273619	275269	0.64	cps
Silver	109-1	265850	264118	259670	263213	1.21	cps
Sodium	23-2	114928	114636	112812	114125	1.00	cps
Strontium	86-1	93293	94923	93558	93925	0.93	cps
Strontium	88-1	816371	815762	808628	813587	0.53	cps
Sulfur	34-1	394654	392646	387575	391625	0.93	cps
Terbium	159-1	16682200	16686500	16629850	16666183	0.19	cps
Terbium	159-2	11544212	11515483	11618964	11559553	0.46	cps
Thallium	203-1	2967	3060	2854	2960	3.50	cps
Thallium	205-1	7442	7035	7215	7231	2.82	cps
Tin	118-1	23950	23596	23619	23722	0.83	cps
Titanium	47-1	244734	245348	243705	244596	0.34	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-12 Instrumnet Name : P7
Client Sample ID : MH2D59 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:21:49 DataFile Name : 057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	29994	29887	30385	30089	0.87	cps
Vanadium	51-2	100179	99787	101085	100350	0.66	cps
Yttrium	89-1	21255265	20896116	21002763	21051381	0.88	cps
Yttrium	89-2	5988018	5978204	6020899	5995707	0.37	cps
Zinc	66-2	1979851	2000518	2011033	1997134	0.79	cps
Zirconium	90-1	6131	6145	5988	6088	1.43	cps
Zirconium	91-1	1323	1310	1277	1303	1.84	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-13 Instrumnet Name : P7
Client Sample ID : MH2D62 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:24:54 DataFile Name : 058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1868716	1840336	1851163	1853405	0.77	cps
Antimony	121-1	83682	81978	83246	82969	1.07	cps
Arsenic	75-2	32208	32726	32572	32502	0.82	cps
Barium	135-1	506350	513423	512717	510830	0.76	cps
Barium	137-1	887179	881278	883795	884084	0.33	cps
Beryllium	9-1	850	780	957	862	10.32	cps
Bismuth	209-1	9922142	9908177	9919165	9916495	0.07	cps
Bismuth	209-2	8631465	8587551	8572567	8597194	0.36	cps
Bromine	81-1	18508	19086	18942	18845	1.60	cps
Bromine	81-2	383	310	357	350	10.60	cps
Cadmium	108-1	1360	1313	1447	1373	4.93	cps
Cadmium	106-1	29239	28758	28284	28761	1.66	cps
Cadmium	111-1	18258	18613	18666	18512	1.20	cps
Calcium	43-1	102241	104134	103936	103437	1.01	cps
Calcium	44-1	1701378	1701724	1658458	1687187	1.47	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40040	39695	39702	39812	0.49	cps
Cobalt	59-2	48856	47411	46953	47740	2.08	cps
Copper	63-2	2055912	2002924	2031194	2030010	1.31	cps
Dysprosium	156-1	34018	34325	34980	34441	1.43	cps
Dysprosium	156-2	31438	31425	31702	31522	0.50	cps
Erbium	164-1	21126	21777	21620	21508	1.58	cps
Erbium	164-2	16226	15519	15666	15803	2.36	cps
Gadolinium	160-1	29802	30376	30196	30125	0.98	cps
Gadolinium	160-2	23710	22839	22982	23177	2.02	cps
Holmium	165-1	16145484	15961946	15857061	15988163	0.91	cps
Holmium	165-2	11772355	11498001	11616401	11628919	1.18	cps
Indium	115-1	13203915	13355990	13077780	13212562	1.05	cps
Indium	115-2	5283404	5247393	5260651	5263816	0.35	cps
Iron	56-2	191136017	189090251	189645071	189957113	0.56	cps
Iron	57-2	4735246	4717873	4653317	4702146	0.92	cps
Iron	54-2	10471762	10288597	10329231	10363197	0.93	cps
Krypton	83-1	253	200	240	231	12.01	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-13 Instrumnet Name : P7
Client Sample ID : MH2D62 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:24:54 DataFile Name : 058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20033136	20359798	20281819	20224917	0.84	cps
Lead	207-1	17225438	17523468	17459875	17402927	0.90	cps
Lead	208-1	79675547	80120009	80577450	80124335	0.56	cps
Lithium	6-1	1451179	1481650	1440069	1457633	1.48	cps
Magnesium	24-2	1927460	1926523	1918572	1924185	0.25	cps
Manganese	55-2	6827276	6720609	6708057	6751980	0.97	cps
Molybdenum	94-1	108861	108404	110295	109186	0.90	cps
Molybdenum	95-1	186833	188328	187649	187603	0.40	cps
Molybdenum	96-1	204006	204648	205439	204698	0.35	cps
Molybdenum	97-1	116711	118263	118200	117725	0.75	cps
Molybdenum	98-1	302889	299131	301505	301175	0.63	cps
Neodymium	150-1	58149	58297	57650	58032	0.58	cps
Neodymium	150-2	37015	36120	36353	36496	1.27	cps
Nickel	60-2	11138	11288	11458	11294	1.42	cps
Phosphorus	31-2	21719	21625	21385	21576	0.80	cps
Potassium	39-2	633343	629624	633139	632035	0.33	cps
Rhodium	103-1	12434141	12389261	12415789	12413064	0.18	cps
Rhodium	103-2	7557456	7559754	7542508	7553239	0.12	cps
Scandium	45-1	7409454	7355206	7217518	7327393	1.35	cps
Scandium	45-2	674424	664691	666101	668405	0.79	cps
Selenium	82-1	663	644	616	641	3.71	cps
Selenium	77-2	103	117	143	121	16.82	cps
Selenium	78-2	637	583	687	636	8.13	cps
Silicon	28-1	10919962	10787521	10853621	10853701	0.61	cps
Silver	107-1	176199	180001	177434	177878	1.09	cps
Silver	109-1	171454	168445	169131	169677	0.93	cps
Sodium	23-2	85831	84302	85609	85247	0.97	cps
Strontium	86-1	83059	82801	83629	83163	0.51	cps
Strontium	88-1	727753	727028	725230	726670	0.18	cps
Sulfur	34-1	301023	300171	300602	300599	0.14	cps
Terbium	159-1	16630113	16538650	16222764	16463842	1.30	cps
Terbium	159-2	11514169	11325573	11371990	11403910	0.86	cps
Thallium	203-1	3540	3484	3430	3485	1.58	cps
Thallium	205-1	8109	8032	8269	8137	1.49	cps
Tin	118-1	10968	10687	11141	10932	2.09	cps
Titanium	47-1	133513	133368	133180	133354	0.13	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-13 Instrumnet Name : P7
Client Sample ID : MH2D62 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:24:54 DataFile Name : 058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	29332	29907	29373	29537	1.09	cps
Vanadium	51-2	83372	83653	82819	83281	0.51	cps
Yttrium	89-1	20508307	20560718	20485044	20518023	0.19	cps
Yttrium	89-2	5888185	5895912	5853347	5879148	0.39	cps
Zinc	66-2	1551017	1546619	1548711	1548782	0.14	cps
Zirconium	90-1	7179	7496	7092	7255	2.93	cps
Zirconium	91-1	1617	1497	1630	1581	4.64	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:27:58 DataFile Name : 059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2519235	2469311	2469597	2486048	1.16	cps
Antimony	121-1	121602	122099	122547	122083	0.39	cps
Arsenic	75-2	50014	50108	51292	50471	1.41	cps
Barium	135-1	478083	479592	477258	478311	0.25	cps
Barium	137-1	830055	827729	836242	831342	0.53	cps
Beryllium	9-1	1750	1823	1583	1719	7.16	cps
Bismuth	209-1	9904493	9838478	9850923	9864631	0.36	cps
Bismuth	209-2	8492586	8436207	8443553	8457449	0.36	cps
Bromine	81-1	18709	18542	18558	18603	0.49	cps
Bromine	81-2	387	377	313	359	11.08	cps
Cadmium	108-1	7332	7135	7619	7362	3.30	cps
Cadmium	106-1	38250	38110	37441	37934	1.14	cps
Cadmium	111-1	101219	100295	99118	100211	1.05	cps
Calcium	43-1	658493	661646	658650	659596	0.27	cps
Calcium	44-1	10575872	10616315	10489502	10560563	0.61	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	79846	80841	80671	80453	0.66	cps
Cobalt	59-2	125038	124074	122273	123795	1.13	cps
Copper	63-2	3314062	3255657	3260954	3276891	0.99	cps
Dysprosium	156-1	45631	44871	45771	45424	1.07	cps
Dysprosium	156-2	42313	42528	41715	42185	1.00	cps
Erbium	164-1	32454	32063	32645	32388	0.92	cps
Erbium	164-2	23790	23750	23971	23837	0.49	cps
Gadolinium	160-1	40281	40154	40218	40217	0.16	cps
Gadolinium	160-2	30747	31084	30824	30885	0.57	cps
Holmium	165-1	16187289	16255840	16109016	16184049	0.45	cps
Holmium	165-2	11719608	11853888	11672770	11748755	0.80	cps
Indium	115-1	13209999	13068817	13088247	13122354	0.58	cps
Indium	115-2	5278899	5362075	5243080	5294685	1.15	cps
Iron	56-2	275049109	272327283	275078563	274151651	0.58	cps
Iron	57-2	6818769	6779253	6801748	6799924	0.29	cps
Iron	54-2	15042538	14877584	15007898	14976007	0.58	cps
Krypton	83-1	220	197	217	211	5.98	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:27:58 DataFile Name : 059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	43034139	43087091	42740189	42953807	0.44	cps
Lead	207-1	36601037	36398941	36743627	36581202	0.47	cps
Lead	208-1	170046928	168934021	169829675	169603541	0.35	cps
Lithium	6-1	1454554	1433576	1385309	1424480	2.49	cps
Magnesium	24-2	2187251	2169696	2156098	2171015	0.72	cps
Manganese	55-2	114858958	113672015	114442868	114324614	0.53	cps
Molybdenum	94-1	266613	270203	267505	268107	0.70	cps
Molybdenum	95-1	459797	459375	461864	460345	0.29	cps
Molybdenum	96-1	496450	493857	500902	497070	0.72	cps
Molybdenum	97-1	287791	288049	285944	287261	0.40	cps
Molybdenum	98-1	730466	730957	736826	732750	0.48	cps
Neodymium	150-1	69634	69447	69942	69674	0.36	cps
Neodymium	150-2	43928	44072	44246	44082	0.36	cps
Nickel	60-2	36053	36003	35863	35973	0.27	cps
Phosphorus	31-2	21111	20253	20490	20618	2.15	cps
Potassium	39-2	1188031	1187236	1188440	1187902	0.05	cps
Rhodium	103-1	12339223	12326819	12292816	12319619	0.20	cps
Rhodium	103-2	7475135	7586440	7512401	7524659	0.75	cps
Scandium	45-1	7469798	7247858	7268529	7328729	1.67	cps
Scandium	45-2	677494	672300	674757	674850	0.38	cps
Selenium	82-1	773	800	766	779	2.28	cps
Selenium	77-2	190	147	117	151	24.40	cps
Selenium	78-2	827	780	740	782	5.55	cps
Silicon	28-1	13320054	12960784	13086477	13122438	1.39	cps
Silver	107-1	412679	411082	412456	412072	0.21	cps
Silver	109-1	396241	390752	393752	393582	0.70	cps
Sodium	23-2	89250	88003	89085	88779	0.76	cps
Strontium	86-1	163126	162115	162175	162472	0.35	cps
Strontium	88-1	1405832	1419375	1469013	1431406	2.32	cps
Sulfur	34-1	1854324	1784604	1820835	1819921	1.92	cps
Terbium	159-1	16644384	16548864	16154622	16449290	1.58	cps
Terbium	159-2	11647861	11603885	11615602	11622449	0.20	cps
Thallium	203-1	6198	6075	6261	6178	1.54	cps
Thallium	205-1	14471	14608	14955	14678	1.70	cps
Tin	118-1	10661	10804	11234	10900	2.74	cps
Titanium	47-1	98119	97112	99199	98143	1.06	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:27:58 DataFile Name : 059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	48789	49509	48736	49011	0.88	cps
Vanadium	51-2	95583	95123	95258	95322	0.25	cps
Yttrium	89-1	20974414	20912498	20797961	20894958	0.43	cps
Yttrium	89-2	6014900	5965505	6010922	5997109	0.46	cps
Zinc	66-2	6199582	6193887	6206979	6200149	0.11	cps
Zirconium	90-1	21018	20975	20935	20976	0.20	cps
Zirconium	91-1	4594	4431	4627	4551	2.31	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:31:03 DataFile Name : 060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5564737	5548177	5472557	5528490	0.89	cps
Antimony	121-1	223396	223135	223115	223215	0.07	cps
Arsenic	75-2	40512	39740	39516	39923	1.31	cps
Barium	135-1	565982	563745	561177	563635	0.43	cps
Barium	137-1	976518	978290	974647	976485	0.19	cps
Beryllium	9-1	10243	10127	9940	10103	1.52	cps
Bismuth	209-1	10459029	10376426	10306706	10380720	0.73	cps
Bismuth	209-2	8820667	8940960	8797274	8852967	0.87	cps
Bromine	81-1	18532	19139	19520	19064	2.61	cps
Bromine	81-2	570	627	470	556	14.28	cps
Cadmium	108-1	17788	17604	17547	17646	0.71	cps
Cadmium	106-1	52832	52789	53096	52906	0.31	cps
Cadmium	111-1	226437	226247	221434	224706	1.26	cps
Calcium	43-1	539906	536322	531459	535896	0.79	cps
Calcium	44-1	8577877	8727505	8646484	8650622	0.87	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	171984	169079	168620	169894	1.07	cps
Cobalt	59-2	375547	372495	369574	372539	0.80	cps
Copper	63-2	10675824	10839348	10695635	10736936	0.83	cps
Dysprosium	156-1	124701	125270	124233	124735	0.42	cps
Dysprosium	156-2	113518	111586	113467	112857	0.98	cps
Erbium	164-1	89742	90265	90611	90206	0.49	cps
Erbium	164-2	66474	65295	65489	65753	0.96	cps
Gadolinium	160-1	112201	113273	112534	112670	0.49	cps
Gadolinium	160-2	84536	83889	84141	84189	0.39	cps
Holmium	165-1	16241714	16257288	16034651	16177884	0.77	cps
Holmium	165-2	11735297	11632147	11690137	11685860	0.44	cps
Indium	115-1	13321254	13278488	13158618	13252787	0.64	cps
Indium	115-2	5289275	5326939	5271552	5295922	0.53	cps
Iron	56-2	447747393	444957073	444395927	445700131	0.40	cps
Iron	57-2	11064584	11139017	11074782	11092794	0.36	cps
Iron	54-2	24460862	24361824	24270605	24364430	0.39	cps
Krypton	83-1	333	340	297	323	7.22	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:31:03 DataFile Name : 060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	94630025	94599122	95326715	94851954	0.43	cps
Lead	207-1	82148902	82372382	82584047	82368444	0.26	cps
Lead	208-1	377865318	379756048	378388979	378670115	0.26	cps
Lithium	6-1	1395788	1429890	1448083	1424587	1.86	cps
Magnesium	24-2	6037876	6038501	5966369	6014249	0.69	cps
Manganese	55-2	83924284	83966537	83507299	83799373	0.30	cps
Molybdenum	94-1	90735	90232	89853	90273	0.49	cps
Molybdenum	95-1	136251	136119	137458	136609	0.54	cps
Molybdenum	96-1	153230	151047	152358	152211	0.72	cps
Molybdenum	97-1	82779	84150	82993	83308	0.89	cps
Molybdenum	98-1	213960	210342	212548	212283	0.86	cps
Neodymium	150-1	187536	185901	187168	186869	0.46	cps
Neodymium	150-2	117451	116832	116853	117045	0.30	cps
Nickel	60-2	66068	66018	66148	66078	0.10	cps
Phosphorus	31-2	33102	32652	33239	32998	0.93	cps
Potassium	39-2	1320491	1349802	1330953	1333749	1.11	cps
Rhodium	103-1	12307870	12286465	12293360	12295898	0.09	cps
Rhodium	103-2	7522769	7471766	7453362	7482632	0.48	cps
Scandium	45-1	7425962	7355164	7384607	7388578	0.48	cps
Scandium	45-2	679761	681721	678151	679877	0.26	cps
Selenium	82-1	894	846	940	894	5.26	cps
Selenium	77-2	337	380	313	343	9.85	cps
Selenium	78-2	947	903	903	918	2.73	cps
Silicon	28-1	33236740	33113355	32770485	33040193	0.73	cps
Silver	107-1	414388	413265	411600	413084	0.34	cps
Silver	109-1	394409	394649	394422	394493	0.03	cps
Sodium	23-2	164838	164137	163191	164055	0.50	cps
Strontium	86-1	512728	511556	516251	513512	0.48	cps
Strontium	88-1	4646423	4667577	4678262	4664087	0.35	cps
Sulfur	34-1	1063162	1055938	1056591	1058564	0.38	cps
Terbium	159-1	16611279	16534857	16396489	16514208	0.66	cps
Terbium	159-2	11744544	11488313	11517286	11583381	1.21	cps
Thallium	203-1	6148	6412	6262	6274	2.11	cps
Thallium	205-1	14338	14228	14348	14304	0.47	cps
Tin	118-1	20551	20381	20842	20591	1.13	cps
Titanium	47-1	187007	187537	185314	186619	0.62	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:31:03 DataFile Name : 060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	98166	97297	97881	97781	0.45	cps
Vanadium	51-2	190758	188171	189355	189428	0.68	cps
Yttrium	89-1	21793622	21836611	21591412	21740548	0.60	cps
Yttrium	89-2	6272162	6234749	6193505	6233472	0.63	cps
Zinc	66-2	21409931	21498979	21293064	21400658	0.48	cps
Zirconium	90-1	38226	37902	37565	37898	0.87	cps
Zirconium	91-1	8450	8242	8583	8425	2.04	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-16 Instrumnet Name : P7
Client Sample ID : MH2D71 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:34:05 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1483913	1434863	1465896	1461557	1.70	cps
Antimony	121-1	201170	202360	199228	200919	0.79	cps
Arsenic	75-2	113036	112438	111968	112481	0.48	cps
Barium	135-1	294332	293428	293847	293869	0.15	cps
Barium	137-1	507881	512633	511138	510551	0.48	cps
Beryllium	9-1	983	1060	1017	1020	3.77	cps
Bismuth	209-1	10193801	10113258	10216881	10174647	0.53	cps
Bismuth	209-2	8737959	8684972	8829366	8750766	0.83	cps
Bromine	81-1	17891	18492	18375	18253	1.74	cps
Bromine	81-2	287	327	273	296	9.39	cps
Cadmium	108-1	5845	5688	5738	5757	1.39	cps
Cadmium	106-1	35821	35022	34992	35278	1.33	cps
Cadmium	111-1	74859	75948	75173	75326	0.74	cps
Calcium	43-1	633522	633589	634969	634027	0.13	cps
Calcium	44-1	10237443	9991273	10111292	10113336	1.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	60179	59242	59938	59787	0.81	cps
Cobalt	59-2	117206	118728	118261	118065	0.66	cps
Copper	63-2	5600039	5541268	5506054	5549120	0.86	cps
Dysprosium	156-1	40368	40946	40147	40487	1.02	cps
Dysprosium	156-2	36738	36360	37306	36801	1.29	cps
Erbium	164-1	26004	25106	26295	25802	2.40	cps
Erbium	164-2	18482	18235	18476	18398	0.76	cps
Gadolinium	160-1	34857	34145	34723	34575	1.09	cps
Gadolinium	160-2	26068	26348	26478	26298	0.80	cps
Holmium	165-1	16265390	16078286	16055735	16133137	0.71	cps
Holmium	165-2	11641297	11440297	11543790	11541795	0.87	cps
Indium	115-1	13197240	13198051	13244477	13213256	0.20	cps
Indium	115-2	5292990	5327347	5251661	5290666	0.72	cps
Iron	56-2	473834646	474015353	474445633	474098544	0.07	cps
Iron	57-2	11828509	11766039	11716341	11770296	0.48	cps
Iron	54-2	25966278	25720313	25874420	25853670	0.48	cps
Krypton	83-1	213	237	200	217	8.57	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-16 Instrumnet Name : P7
Client Sample ID : MH2D71 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:34:05 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	51033436	49924398	50601013	50519615	1.11	cps
Lead	207-1	43682931	43476409	44537229	43898857	1.28	cps
Lead	208-1	201223775	198874205	203525620	201207867	1.16	cps
Lithium	6-1	1436367	1391095	1437358	1421607	1.86	cps
Magnesium	24-2	1308101	1304578	1293445	1302041	0.59	cps
Manganese	55-2	24394242	24303825	24254812	24317626	0.29	cps
Molybdenum	94-1	217988	219970	217572	218510	0.59	cps
Molybdenum	95-1	375171	374844	372410	374141	0.40	cps
Molybdenum	96-1	415272	413918	413913	414368	0.19	cps
Molybdenum	97-1	236578	237258	235138	236325	0.46	cps
Molybdenum	98-1	607986	605182	600320	604496	0.64	cps
Neodymium	150-1	61962	62799	62953	62571	0.85	cps
Neodymium	150-2	39057	39576	38539	39057	1.33	cps
Nickel	60-2	24547	23973	24223	24247	1.19	cps
Phosphorus	31-2	19296	19416	19115	19276	0.78	cps
Potassium	39-2	1005680	999250	997554	1000828	0.43	cps
Rhodium	103-1	12272149	12230514	12009535	12170733	1.16	cps
Rhodium	103-2	7409534	7453133	7359829	7407499	0.63	cps
Scandium	45-1	7346111	7232779	7170011	7249634	1.23	cps
Scandium	45-2	662279	660304	658297	660293	0.30	cps
Selenium	82-1	1193	1151	1166	1170	1.82	cps
Selenium	77-2	207	200	170	192	10.16	cps
Selenium	78-2	883	880	847	870	2.33	cps
Silicon	28-1	12399786	12406719	12410279	12405595	0.04	cps
Silver	107-1	670879	664946	662521	666115	0.65	cps
Silver	109-1	636401	636659	637741	636934	0.11	cps
Sodium	23-2	83957	83766	83951	83891	0.13	cps
Strontium	86-1	115603	116462	117195	116420	0.68	cps
Strontium	88-1	1017072	1027159	1014059	1019430	0.67	cps
Sulfur	34-1	3520023	3563567	3512193	3531928	0.78	cps
Terbium	159-1	16385655	16551174	16283808	16406879	0.82	cps
Terbium	159-2	11346716	11437014	11509512	11431081	0.71	cps
Thallium	203-1	5905	5585	5825	5771	2.89	cps
Thallium	205-1	13073	13607	13357	13346	2.00	cps
Tin	118-1	17901	18202	18048	18050	0.83	cps
Titanium	47-1	72469	72958	73414	72947	0.65	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-16 Instrumnet Name : P7
Client Sample ID : MH2D71 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:34:05 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43605	43009	42872	43162	0.90	cps
Vanadium	51-2	64835	64393	65049	64759	0.52	cps
Yttrium	89-1	20532108	20398399	20402148	20444218	0.37	cps
Yttrium	89-2	5863145	5864465	5822096	5849902	0.41	cps
Zinc	66-2	6448008	6378004	6347416	6391143	0.81	cps
Zirconium	90-1	11862	12115	12005	11994	1.06	cps
Zirconium	91-1	2820	2660	2660	2714	3.40	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17 Instrumnet Name : P7
Client Sample ID : MH2D74 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:37:10 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1001728	998693	984953	995125	0.90	cps
Antimony	121-1	188390	190099	189242	189244	0.45	cps
Arsenic	75-2	102021	101480	100933	101478	0.54	cps
Barium	135-1	271955	273109	276004	273689	0.76	cps
Barium	137-1	470342	471133	470498	470658	0.09	cps
Beryllium	9-1	1723	1813	1877	1805	4.27	cps
Bismuth	209-1	9631523	10055193	10092571	9926429	2.58	cps
Bismuth	209-2	8826536	8732382	8734234	8764384	0.61	cps
Bromine	81-1	18485	18779	18655	18640	0.79	cps
Bromine	81-2	323	213	303	280	20.93	cps
Cadmium	108-1	4111	3924	4274	4103	4.27	cps
Cadmium	106-1	30749	31988	32526	31755	2.87	cps
Cadmium	111-1	52729	52505	52347	52527	0.36	cps
Calcium	43-1	637718	639176	633013	636636	0.51	cps
Calcium	44-1	10386058	10103430	10093515	10194334	1.63	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	47548	47464	47451	47488	0.11	cps
Cobalt	59-2	75241	76279	74966	75495	0.92	cps
Copper	63-2	4392068	4345162	4336380	4357870	0.69	cps
Dysprosium	156-1	29060	29564	29124	29249	0.94	cps
Dysprosium	156-2	27620	27460	27016	27366	1.14	cps
Erbium	164-1	19173	19554	19033	19253	1.40	cps
Erbium	164-2	14221	13964	14181	14122	0.98	cps
Gadolinium	160-1	26251	26141	25800	26064	0.90	cps
Gadolinium	160-2	20218	20265	20395	20293	0.45	cps
Holmium	165-1	15126433	15878659	16030782	15678625	3.09	cps
Holmium	165-2	11511117	11587826	11516416	11538453	0.37	cps
Indium	115-1	12458209	13385504	13149989	12997901	3.71	cps
Indium	115-2	5292127	5221765	5251270	5255054	0.67	cps
Iron	56-2	384231688	383132834	379218514	382194345	0.69	cps
Iron	57-2	9511128	9543575	9412055	9488919	0.72	cps
Iron	54-2	20987125	20782738	20721094	20830319	0.67	cps
Krypton	83-1	217	240	233	230	5.23	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17 Instrumnet Name : P7
Client Sample ID : MH2D74 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:37:10 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	49071859	48331253	48353839	48585650	0.87	cps
Lead	207-1	42124509	41530424	41370577	41675170	0.95	cps
Lead	208-1	193151613	190663805	192301021	192038813	0.66	cps
Lithium	6-1	1348400	1393420	1364406	1368742	1.67	cps
Magnesium	24-2	920712	922496	913740	918983	0.50	cps
Manganese	55-2	22321703	22323126	22168605	22271145	0.40	cps
Molybdenum	94-1	217528	218236	217103	217622	0.26	cps
Molybdenum	95-1	374849	371332	369350	371844	0.75	cps
Molybdenum	96-1	404038	407859	405033	405643	0.49	cps
Molybdenum	97-1	234848	235894	234146	234962	0.37	cps
Molybdenum	98-1	602667	596658	598577	599300	0.51	cps
Neodymium	150-1	48068	46871	46546	47162	1.70	cps
Neodymium	150-2	30032	29568	29604	29735	0.87	cps
Nickel	60-2	16826	16953	16816	16865	0.45	cps
Phosphorus	31-2	17657	18044	17740	17814	1.14	cps
Potassium	39-2	1043034	1044528	1032571	1040044	0.63	cps
Rhodium	103-1	11625650	12247164	12024220	11965678	2.63	cps
Rhodium	103-2	7519068	7387848	7500628	7469181	0.95	cps
Scandium	45-1	6902862	7187893	7136672	7075809	2.15	cps
Scandium	45-2	662118	660630	658797	660515	0.25	cps
Selenium	82-1	982	933	1038	984	5.36	cps
Selenium	77-2	227	177	117	173	31.77	cps
Selenium	78-2	857	867	877	867	1.15	cps
Silicon	28-1	10112668	10161730	10050635	10108344	0.55	cps
Silver	107-1	618637	616085	621812	618845	0.46	cps
Silver	109-1	590832	593519	588470	590940	0.43	cps
Sodium	23-2	84564	84674	83166	84135	1.00	cps
Strontium	86-1	126944	127509	125943	126799	0.63	cps
Strontium	88-1	1095746	1097957	1092402	1095369	0.26	cps
Sulfur	34-1	2644121	2667961	2653737	2655273	0.45	cps
Terbium	159-1	15526964	16462659	16191876	16060500	3.00	cps
Terbium	159-2	11431738	11453857	11452806	11446133	0.11	cps
Thallium	203-1	5398	5254	5148	5267	2.38	cps
Thallium	205-1	12940	12886	13036	12954	0.59	cps
Tin	118-1	14841	14941	14978	14920	0.47	cps
Titanium	47-1	59754	59446	58479	59226	1.12	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17 Instrumnet Name : P7
Client Sample ID : MH2D74 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:37:10 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33382	32744	32400	32842	1.52	cps
Vanadium	51-2	57659	57405	57553	57539	0.22	cps
Yttrium	89-1	19235480	20413691	20533249	20060806	3.58	cps
Yttrium	89-2	5882365	5856934	5814777	5851358	0.58	cps
Zinc	66-2	4526648	4447440	4483913	4486000	0.88	cps
Zirconium	90-1	10828	11054	10844	10909	1.16	cps
Zirconium	91-1	2344	2474	2424	2414	2.72	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-18 Instrumnet Name : P7
Client Sample ID : MH2D74D Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:40:14 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1001114	990964	992076	994718	0.56	cps
Antimony	121-1	189357	191365	188302	189675	0.82	cps
Arsenic	75-2	101158	101359	100685	101067	0.34	cps
Barium	135-1	273477	276253	275923	275218	0.55	cps
Barium	137-1	471334	473572	474585	473164	0.35	cps
Beryllium	9-1	1900	1893	1727	1840	5.34	cps
Bismuth	209-1	10254759	10004557	10210367	10156561	1.31	cps
Bismuth	209-2	8735753	8701705	8164443	8533967	3.76	cps
Bromine	81-1	18492	19323	18709	18841	2.29	cps
Bromine	81-2	250	347	277	291	17.15	cps
Cadmium	108-1	3957	4217	3981	4052	3.55	cps
Cadmium	106-1	32450	32820	32436	32569	0.67	cps
Cadmium	111-1	54043	51637	52216	52632	2.39	cps
Calcium	43-1	639842	640052	639093	639662	0.08	cps
Calcium	44-1	10228365	10284869	10280452	10264562	0.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	47197	47418	46786	47133	0.68	cps
Cobalt	59-2	75833	75093	75378	75435	0.50	cps
Copper	63-2	4356174	4374888	4298013	4343025	0.92	cps
Dysprosium	156-1	29581	30433	29848	29954	1.45	cps
Dysprosium	156-2	26876	27260	27704	27280	1.52	cps
Erbium	164-1	19193	19727	19167	19362	1.63	cps
Erbium	164-2	13897	14081	14264	14081	1.30	cps
Gadolinium	160-1	26508	27123	26291	26641	1.62	cps
Gadolinium	160-2	20288	20188	20625	20367	1.13	cps
Holmium	165-1	16130005	15913811	15922332	15988716	0.77	cps
Holmium	165-2	11581173	11653384	10650479	11295012	4.95	cps
Indium	115-1	13439692	13384526	13074304	13299507	1.48	cps
Indium	115-2	5296711	5213736	4915437	5141961	3.90	cps
Iron	56-2	382535794	381636968	379984434	381385732	0.34	cps
Iron	57-2	9511404	9445407	9536030	9497614	0.49	cps
Iron	54-2	20775587	20912748	20657306	20781881	0.62	cps
Krypton	83-1	190	223	243	219	12.31	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-18 Instrumnet Name : P7
Client Sample ID : MH2D74D Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:40:14 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	48281459	48437936	48309321	48342905	0.17	cps
Lead	207-1	41923718	42328344	41974343	42075468	0.52	cps
Lead	208-1	192195092	192384995	192424802	192334963	0.06	cps
Lithium	6-1	1431401	1382610	1360442	1391484	2.61	cps
Magnesium	24-2	919155	917929	919491	918858	0.09	cps
Manganese	55-2	22436465	22368506	22253217	22352729	0.41	cps
Molybdenum	94-1	218593	221249	217234	219025	0.93	cps
Molybdenum	95-1	373709	375339	373951	374333	0.23	cps
Molybdenum	96-1	410076	407990	410888	409651	0.36	cps
Molybdenum	97-1	235755	234766	234674	235065	0.26	cps
Molybdenum	98-1	599152	602960	603389	601834	0.39	cps
Neodymium	150-1	47400	47376	47128	47301	0.32	cps
Neodymium	150-2	29928	30219	29130	29759	1.89	cps
Nickel	60-2	17113	16866	16856	16945	0.86	cps
Phosphorus	31-2	17457	17871	17737	17688	1.19	cps
Potassium	39-2	1039516	1032896	1033209	1035207	0.36	cps
Rhodium	103-1	12225619	12230426	12305291	12253779	0.36	cps
Rhodium	103-2	7522594	7359741	6946241	7276192	4.08	cps
Scandium	45-1	7322203	7280287	7204919	7269136	0.82	cps
Scandium	45-2	657216	659999	613858	643691	4.02	cps
Selenium	82-1	959	1087	1017	1021	6.24	cps
Selenium	77-2	167	200	157	174	13.01	cps
Selenium	78-2	800	757	900	819	8.98	cps
Silicon	28-1	10047155	9862893	10000760	9970269	0.96	cps
Silver	107-1	620486	623818	622427	622244	0.27	cps
Silver	109-1	586424	595853	591987	591421	0.80	cps
Sodium	23-2	83512	81618	82550	82560	1.15	cps
Strontium	86-1	127274	126259	126763	126765	0.40	cps
Strontium	88-1	1098221	1111090	1099611	1102974	0.64	cps
Sulfur	34-1	2704520	2664482	2621127	2663376	1.57	cps
Terbium	159-1	16391119	16493942	16302660	16395907	0.58	cps
Terbium	159-2	11405619	11364629	10408448	11059565	5.10	cps
Thallium	203-1	5451	5484	5228	5388	2.59	cps
Thallium	205-1	12863	13086	12683	12877	1.57	cps
Tin	118-1	15008	15252	15211	15157	0.86	cps
Titanium	47-1	59168	59245	59112	59175	0.11	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-18 Instrumnet Name : P7
Client Sample ID : MH2D74D Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:40:14 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33335	33071	33085	33164	0.45	cps
Vanadium	51-2	57532	57827	57234	57531	0.51	cps
Yttrium	89-1	20384803	20326507	20400469	20370593	0.19	cps
Yttrium	89-2	5938020	5788987	5409623	5712210	4.77	cps
Zinc	66-2	4515190	4469771	4384680	4456547	1.49	cps
Zirconium	90-1	10240	10437	9970	10216	2.29	cps
Zirconium	91-1	2257	2454	2427	2379	4.48	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-19 Instrumnet Name : P7
Client Sample ID : MH2D74S Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:43:20 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1071285	1068779	1062966	1067677	0.40	cps
Antimony	121-1	449117	451600	447842	449520	0.43	cps
Arsenic	75-2	106341	104273	104659	105091	1.05	cps
Barium	135-1	1663333	1649956	1642554	1651948	0.64	cps
Barium	137-1	2894844	2850532	2909252	2884876	1.06	cps
Beryllium	9-1	14287	13960	14183	14143	1.18	cps
Bismuth	209-1	10209264	10114673	10253781	10192573	0.70	cps
Bismuth	209-2	8733152	8716211	8668843	8706069	0.38	cps
Bromine	81-1	18288	19056	18352	18565	2.29	cps
Bromine	81-2	350	400	300	350	14.29	cps
Cadmium	108-1	6055	6091	6175	6107	1.01	cps
Cadmium	106-1	35159	35122	35888	35390	1.22	cps
Cadmium	111-1	83296	83860	83517	83558	0.34	cps
Calcium	43-1	628360	630978	619037	626125	1.00	cps
Calcium	44-1	10103444	10079062	9955490	10045998	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	268127	267163	266837	267376	0.25	cps
Cobalt	59-2	938864	932737	930554	934052	0.46	cps
Copper	63-2	4533620	4519071	4526476	4526389	0.16	cps
Dysprosium	156-1	29444	29341	29164	29316	0.48	cps
Dysprosium	156-2	27110	27039	26706	26951	0.80	cps
Erbium	164-1	19200	19347	19714	19420	1.36	cps
Erbium	164-2	14064	14000	13607	13890	1.78	cps
Gadolinium	160-1	25430	25650	25954	25678	1.03	cps
Gadolinium	160-2	19998	20041	20298	20112	0.81	cps
Holmium	165-1	15965929	15953462	16140871	16020087	0.65	cps
Holmium	165-2	11492777	11580410	11441059	11504749	0.61	cps
Indium	115-1	13274370	13269770	13138274	13227472	0.58	cps
Indium	115-2	5218020	5164759	5176186	5186322	0.54	cps
Iron	56-2	372095514	371614008	369197781	370969101	0.42	cps
Iron	57-2	9140091	9248288	9202577	9196986	0.59	cps
Iron	54-2	20448264	20326408	20277499	20350724	0.43	cps
Krypton	83-1	250	233	243	242	3.46	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-19 Instrumnet Name : P7
Client Sample ID : MH2D74S Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:43:20 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	48049003	47897139	47891416	47945853	0.19	cps
Lead	207-1	41364174	41679690	41155874	41399913	0.64	cps
Lead	208-1	190962422	190890738	189698852	190517337	0.37	cps
Lithium	6-1	1394063	1391534	1404027	1396541	0.47	cps
Magnesium	24-2	895552	895827	890061	893813	0.36	cps
Manganese	55-2	22247567	22079596	21973053	22100072	0.63	cps
Molybdenum	94-1	212536	214020	214011	213522	0.40	cps
Molybdenum	95-1	364101	367778	362491	364790	0.74	cps
Molybdenum	96-1	404174	402451	399586	402070	0.58	cps
Molybdenum	97-1	232074	230666	229568	230769	0.54	cps
Molybdenum	98-1	587122	589893	588443	588486	0.24	cps
Neodymium	150-1	46346	46376	47005	46575	0.80	cps
Neodymium	150-2	28749	29745	29003	29166	1.77	cps
Nickel	60-2	235558	235845	233750	235051	0.48	cps
Phosphorus	31-2	17266	17173	17500	17313	0.97	cps
Potassium	39-2	1008087	1013079	1005531	1008899	0.38	cps
Rhodium	103-1	12221478	12103681	12281623	12202261	0.74	cps
Rhodium	103-2	7400762	7492539	7378725	7424009	0.81	cps
Scandium	45-1	7214603	7309885	7155548	7226679	1.08	cps
Scandium	45-2	648797	649279	642827	646968	0.56	cps
Selenium	82-1	5307	5343	5211	5287	1.29	cps
Selenium	77-2	690	527	563	593	14.44	cps
Selenium	78-2	2690	2484	2580	2585	4.00	cps
Silicon	28-1	9897783	9856854	9926620	9893753	0.35	cps
Silver	107-1	782624	767768	776324	775572	0.96	cps
Silver	109-1	739457	739453	744836	741249	0.42	cps
Sodium	23-2	79735	79966	81139	80280	0.94	cps
Strontium	86-1	123254	124017	123146	123472	0.38	cps
Strontium	88-1	1070481	1078903	1078568	1075984	0.44	cps
Sulfur	34-1	2591390	2589846	2610731	2597323	0.45	cps
Terbium	159-1	16458435	16249559	16267604	16325199	0.71	cps
Terbium	159-2	11514751	11329309	11418707	11420922	0.81	cps
Thallium	203-1	123900	124203	124412	124172	0.21	cps
Thallium	205-1	293274	294471	296500	294748	0.55	cps
Tin	118-1	14864	15515	15108	15163	2.17	cps
Titanium	47-1	57623	57914	58148	57895	0.45	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-19 Instrumnet Name : P7
Client Sample ID : MH2D74S Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:43:20 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	32924	32767	32613	32768	0.47	cps
Vanadium	51-2	549101	546789	542922	546271	0.57	cps
Yttrium	89-1	20320704	20336223	20075881	20244269	0.72	cps
Yttrium	89-2	5812625	5836785	5805338	5818249	0.28	cps
Zinc	66-2	4500205	4434193	4491672	4475357	0.80	cps
Zirconium	90-1	11185	10277	10277	10580	4.95	cps
Zirconium	91-1	2257	2374	2337	2322	2.57	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17LX5 Instrumnet Name : P7
Client Sample ID : MH2D74L Dilution Factor : 5
Date & Time Acquired : 2025-01-06 16:46:22 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	195697	195130	193901	194909	0.47	cps
Antimony	121-1	37188	37325	37091	37201	0.32	cps
Arsenic	75-2	19636	19116	19236	19329	1.41	cps
Barium	135-1	53955	53701	53621	53759	0.32	cps
Barium	137-1	94045	93347	92837	93410	0.65	cps
Beryllium	9-1	403	390	490	428	12.69	cps
Bismuth	209-1	9432956	9468211	9426629	9442598	0.24	cps
Bismuth	209-2	8400805	8241573	8286922	8309767	0.99	cps
Bromine	81-1	18358	17868	17474	17900	2.48	cps
Bromine	81-2	157	150	120	142	13.73	cps
Cadmium	108-1	840	777	877	831	6.09	cps
Cadmium	106-1	26778	26808	27322	26970	1.13	cps
Cadmium	111-1	12180	12674	12052	12302	2.67	cps
Calcium	43-1	126989	126455	125927	126457	0.42	cps
Calcium	44-1	2034170	2023417	2038506	2032031	0.38	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	12812	12856	12742	12803	0.45	cps
Cobalt	59-2	14604	14974	14414	14664	1.94	cps
Copper	63-2	828113	820780	819477	822790	0.57	cps
Dysprosium	156-1	6148	5554	5805	5836	5.11	cps
Dysprosium	156-2	5104	5254	5558	5305	4.35	cps
Erbium	164-1	3671	3844	3911	3808	3.25	cps
Erbium	164-2	2810	2800	2540	2717	5.64	cps
Gadolinium	160-1	5168	5278	5381	5275	2.02	cps
Gadolinium	160-2	4554	4234	4467	4419	3.75	cps
Holmium	165-1	15546696	15621747	15555579	15574674	0.26	cps
Holmium	165-2	11443062	11245149	11383642	11357284	0.89	cps
Indium	115-1	12827246	12762529	12886945	12825573	0.49	cps
Indium	115-2	5178026	5062191	5025338	5088519	1.57	cps
Iron	56-2	73684919	73472562	72625812	73261098	0.76	cps
Iron	57-2	1824259	1854802	1834206	1837755	0.85	cps
Iron	54-2	4043296	4033118	4019183	4031866	0.30	cps
Krypton	83-1	220	207	250	226	9.84	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17LX5 Instrumnet Name : P7
Client Sample ID : MH2D74L Dilution Factor : 5
Date & Time Acquired : 2025-01-06 16:46:22 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9613723	9491147	9467459	9524110	0.82	cps
Lead	207-1	8337147	8193064	8227632	8252614	0.91	cps
Lead	208-1	38113392	37905411	37859096	37959300	0.36	cps
Lithium	6-1	1380692	1343557	1354201	1359483	1.41	cps
Magnesium	24-2	180043	178670	178441	179051	0.48	cps
Manganese	55-2	4308317	4336222	4329010	4324516	0.33	cps
Molybdenum	94-1	42374	42251	42669	42431	0.51	cps
Molybdenum	95-1	73094	72428	71443	72322	1.15	cps
Molybdenum	96-1	79953	80030	79156	79713	0.61	cps
Molybdenum	97-1	45501	45821	45210	45511	0.67	cps
Molybdenum	98-1	117951	116348	118381	117560	0.91	cps
Neodymium	150-1	9210	9323	9370	9301	0.89	cps
Neodymium	150-2	6051	5801	6095	5982	2.65	cps
Nickel	60-2	4347	4774	4444	4522	4.95	cps
Phosphorus	31-2	3587	3510	3837	3645	4.69	cps
Potassium	39-2	254773	255113	255749	255212	0.19	cps
Rhodium	103-1	12032431	12093804	12090716	12072317	0.29	cps
Rhodium	103-2	7387919	7317563	7279455	7328312	0.75	cps
Scandium	45-1	7097194	6928073	6969807	6998358	1.26	cps
Scandium	45-2	631451	628413	634960	631608	0.52	cps
Selenium	82-1	463	464	448	458	1.98	cps
Selenium	77-2	33	40	7	27	66.13	cps
Selenium	78-2	567	580	513	553	6.38	cps
Silicon	28-1	3270806	3268580	3236183	3258523	0.59	cps
Silver	107-1	122162	123103	121766	122343	0.56	cps
Silver	109-1	116735	116456	116517	116569	0.13	cps
Sodium	23-2	53007	52633	52014	52551	0.95	cps
Strontium	86-1	24714	25075	25025	24938	0.78	cps
Strontium	88-1	214942	214599	213141	214227	0.45	cps
Sulfur	34-1	641709	637057	633894	637554	0.62	cps
Terbium	159-1	15866677	15932247	15746636	15848520	0.59	cps
Terbium	159-2	11277560	11128058	11256605	11220741	0.72	cps
Thallium	203-1	1447	1233	1313	1331	8.10	cps
Thallium	205-1	3104	3360	3084	3183	4.85	cps
Tin	118-1	4974	5051	4991	5005	0.81	cps
Titanium	47-1	11898	11728	11561	11729	1.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-17LX5 Instrumnet Name : P7
Client Sample ID : MH2D74L Dilution Factor : 5
Date & Time Acquired : 2025-01-06 16:46:22 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6342	6595	6332	6423	2.32	cps
Vanadium	51-2	11348	11231	11231	11270	0.60	cps
Yttrium	89-1	19640437	19588434	19529616	19586162	0.28	cps
Yttrium	89-2	5657788	5582930	5642416	5627711	0.70	cps
Zinc	66-2	845812	832366	835819	837999	0.83	cps
Zirconium	90-1	2754	2874	2904	2844	2.79	cps
Zirconium	91-1	683	590	620	631	7.55	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:49:31 DataFile Name : 066CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10104678	10013533	10071682	10063298	0.46	cps
Antimony	121-1	5610546	5617632	5584534	5604237	0.31	cps
Arsenic	75-2	256131	257036	255733	256300	0.26	cps
Barium	135-1	7177072	7120894	7063389	7120452	0.80	cps
Barium	137-1	12362198	12254615	12335076	12317296	0.45	cps
Beryllium	9-1	574133	577525	579898	577186	0.50	cps
Bismuth	209-1	8575085	8821166	8941709	8779320	2.13	cps
Bismuth	209-2	7251504	7259954	7278809	7263423	0.19	cps
Bromine	81-1	14367	14077	13773	14072	2.11	cps
Bromine	81-2	133	123	90	116	19.64	cps
Cadmium	108-1	106155	104721	104338	105071	0.91	cps
Cadmium	106-1	171270	170487	169674	170477	0.47	cps
Cadmium	111-1	1291546	1289707	1273948	1285067	0.75	cps
Calcium	43-1	7002115	6822864	6808194	6877724	1.57	cps
Calcium	44-1	113742208	113180348	110777595	112566717	1.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1947171	1915476	1944249	1935632	0.90	cps
Cobalt	59-2	2974866	2961389	2954428	2963561	0.35	cps
Copper	63-2	21316347	21212361	21135608	21221439	0.43	cps
Dysprosium	156-1	420	467	467	451	5.97	cps
Dysprosium	156-2	623	637	620	627	1.41	cps
Erbium	164-1	430	340	363	378	12.36	cps
Erbium	164-2	293	267	253	271	7.51	cps
Gadolinium	160-1	357	303	310	323	8.99	cps
Gadolinium	160-2	767	903	930	867	10.11	cps
Holmium	165-1	14842928	15174854	14981288	14999690	1.11	cps
Holmium	165-2	10505524	10678807	10697622	10627317	1.00	cps
Indium	115-1	11106741	11105312	11087544	11099866	0.10	cps
Indium	115-2	4125086	4129201	4126160	4126816	0.05	cps
Iron	56-2	454625007	454581713	452020327	453742349	0.33	cps
Iron	57-2	11380726	11336886	11440529	11386047	0.46	cps
Iron	54-2	24814822	24565192	24749450	24709822	0.52	cps
Krypton	83-1	157	213	150	173	20.08	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:49:31 DataFile Name : 066CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21480973	21799029	22036703	21772235	1.28	cps
Lead	207-1	19013575	19377674	19468070	19286440	1.25	cps
Lead	208-1	86650877	87990334	88919462	87853558	1.30	cps
Lithium	6-1	1445426	1525170	1502885	1491160	2.76	cps
Magnesium	24-2	80810442	80600905	80604864	80672070	0.15	cps
Manganese	55-2	15449002	15394446	15412445	15418631	0.18	cps
Molybdenum	94-1	19124741	18923809	18923646	18990732	0.61	cps
Molybdenum	95-1	27320721	27264878	27370004	27318534	0.19	cps
Molybdenum	96-1	29823609	30118055	29669858	29870507	0.76	cps
Molybdenum	97-1	16934000	17112579	16820019	16955533	0.87	cps
Molybdenum	98-1	43613271	44045594	43484678	43714514	0.67	cps
Neodymium	150-1	617	577	523	572	8.18	cps
Neodymium	150-2	207	197	187	197	5.08	cps
Nickel	60-2	741316	739082	734367	738255	0.48	cps
Phosphorus	31-2	97491	96414	96689	96865	0.58	cps
Potassium	39-2	57025862	57185894	56805241	57005666	0.34	cps
Rhodium	103-1	9869378	9931680	9820550	9873870	0.56	cps
Rhodium	103-2	5745338	5718143	5687896	5717126	0.50	cps
Scandium	45-1	6245367	6219651	6087513	6184177	1.37	cps
Scandium	45-2	496841	498859	497390	497696	0.21	cps
Selenium	82-1	81305	79889	80765	80653	0.89	cps
Selenium	77-2	8633	8419	8929	8660	2.96	cps
Selenium	78-2	29165	29640	28711	29172	1.59	cps
Silicon	28-1	34248964	33652885	33388993	33763614	1.30	cps
Silver	107-1	6851207	6788470	6730302	6789993	0.89	cps
Silver	109-1	6580931	6485260	6425792	6497328	1.20	cps
Sodium	23-2	138823218	137399721	136937321	137720087	0.71	cps
Strontium	86-1	1759667	1727077	1689754	1725499	2.03	cps
Strontium	88-1	15108303	14993075	14886504	14995961	0.74	cps
Sulfur	34-1	544905	529447	525183	533178	1.95	cps
Terbium	159-1	15062684	15350967	15151067	15188239	0.97	cps
Terbium	159-2	10326918	10375776	10485997	10396230	0.78	cps
Thallium	203-1	5485882	5608696	5489172	5527917	1.27	cps
Thallium	205-1	12960123	13278240	13331026	13189796	1.52	cps
Tin	118-1	4436504	4490317	4428160	4451660	0.76	cps
Titanium	47-1	6647696	6597272	6464263	6569744	1.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P7
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:49:31 DataFile Name : 066CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17018720	17395175	17657816	17357237	1.85	cps
Vanadium	51-2	1757555	1758148	1740904	1752202	0.56	cps
Yttrium	89-1	17255014	17490660	17422436	17389370	0.70	cps
Yttrium	89-2	4642614	4631023	4584465	4619367	0.67	cps
Zinc	66-2	3733922	3744038	3699600	3725853	0.63	cps
Zirconium	90-1	9420563	9347584	9427522	9398556	0.47	cps
Zirconium	91-1	2106391	2101247	2083603	2097081	0.57	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:52:12 DataFile Name : 067CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	620	537	693	617	12.71	cps
Antimony	121-1	2127	1830	1707	1888	11.44	cps
Arsenic	75-2	27	17	20	21	24.12	cps
Barium	135-1	627	447	497	523	17.76	cps
Barium	137-1	1077	887	823	929	14.19	cps
Beryllium	9-1	163	173	137	158	12.01	cps
Bismuth	209-1	9941538	9778643	9773794	9831325	0.97	cps
Bismuth	209-2	8185339	8000299	8106836	8097491	1.15	cps
Bromine	81-1	13613	13847	13400	13620	1.64	cps
Bromine	81-2	127	133	103	121	13.01	cps
Cadmium	108-1	67	70	83	73	12.02	cps
Cadmium	106-1	23429	23356	22941	23242	1.13	cps
Cadmium	111-1	2430	2450	2396	2425	1.13	cps
Calcium	43-1	833	820	777	810	3.66	cps
Calcium	44-1	17310	15455	14917	15894	7.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2847	2964	3014	2941	2.91	cps
Cobalt	59-2	337	340	310	329	5.00	cps
Copper	63-2	5801	5721	5818	5780	0.89	cps
Dysprosium	156-1	7	7	3	6	34.70	cps
Dysprosium	156-2	7	0	17	8	107.84	cps
Erbium	164-1	80	97	90	89	9.44	cps
Erbium	164-2	77	53	17	49	61.86	cps
Gadolinium	160-1	73	107	117	99	22.95	cps
Gadolinium	160-2	697	627	647	657	5.49	cps
Holmium	165-1	15256786	15328939	15403342	15329689	0.48	cps
Holmium	165-2	11020034	10766935	10784473	10857147	1.30	cps
Indium	115-1	11753278	11761141	11857883	11790768	0.49	cps
Indium	115-2	4512056	4584559	4507440	4534685	0.95	cps
Iron	56-2	55184	54609	55054	54949	0.55	cps
Iron	57-2	2280	1990	2224	2165	7.10	cps
Iron	54-2	4267	4187	4467	4307	3.35	cps
Krypton	83-1	147	220	163	177	21.76	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:52:12 DataFile Name : 067CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7612	7222	7339	7391	2.71	cps
Lead	207-1	6492	6225	6081	6266	3.32	cps
Lead	208-1	30080	28909	28562	29184	2.73	cps
Lithium	6-1	1633467	1621617	1612618	1622567	0.64	cps
Magnesium	24-2	4928	4901	4931	4920	0.33	cps
Manganese	55-2	1770	1883	1823	1826	3.11	cps
Molybdenum	94-1	2307	2003	1833	2048	11.71	cps
Molybdenum	95-1	2780	2287	2197	2421	12.97	cps
Molybdenum	96-1	3290	2654	2644	2863	12.95	cps
Molybdenum	97-1	1843	1507	1297	1549	17.81	cps
Molybdenum	98-1	4737	3917	3657	4104	13.74	cps
Neodymium	150-1	7	0	7	4	86.60	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	710	797	843	783	8.64	cps
Phosphorus	31-2	263	280	260	268	4.00	cps
Potassium	39-2	55644	55414	55377	55478	0.26	cps
Rhodium	103-1	10828177	10871759	10948326	10882754	0.56	cps
Rhodium	103-2	6429295	6433769	6368502	6410522	0.57	cps
Scandium	45-1	6133998	6219651	6208076	6187242	0.75	cps
Scandium	45-2	507429	505619	510695	507914	0.51	cps
Selenium	82-1	393	285	335	338	15.98	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	377	357	407	380	6.62	cps
Silicon	28-1	783818	790768	794930	789839	0.71	cps
Silver	107-1	1307	1193	1120	1207	7.79	cps
Silver	109-1	1313	1100	1000	1138	14.07	cps
Sodium	23-2	44935	43849	42990	43925	2.22	cps
Strontium	86-1	440	397	393	410	6.35	cps
Strontium	88-1	1287	1063	977	1109	14.42	cps
Sulfur	34-1	156680	158579	158782	158014	0.73	cps
Terbium	159-1	15614878	15530569	15547056	15564168	0.29	cps
Terbium	159-2	10803778	10703115	10613361	10706752	0.89	cps
Thallium	203-1	1537	1363	1480	1460	6.05	cps
Thallium	205-1	3741	3314	3307	3454	7.19	cps
Tin	118-1	1330	1277	1340	1316	2.59	cps
Titanium	47-1	520	477	413	470	11.41	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P7
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 16:52:12 DataFile Name : 067CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1257	1050	940	1082	14.86	cps
Vanadium	51-2	117	130	117	121	6.35	cps
Yttrium	89-1	17759203	17778749	17700369	17746107	0.23	cps
Yttrium	89-2	4822914	4802325	4765661	4796967	0.60	cps
Zinc	66-2	630	667	630	642	3.30	cps
Zirconium	90-1	1887	1720	1590	1732	8.59	cps
Zirconium	91-1	373	333	383	363	7.28	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:48:47 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1425360	1446143	1432636	1434713	0.74	cps
Antimony	121-1	31615	32146	32183	31981	0.99	cps
Arsenic	75-2	13096	13373	12966	13145	1.58	cps
Barium	135-1	95625	95273	97605	96167	1.31	cps
Barium	137-1	165420	167629	168516	167188	0.95	cps
Beryllium	9-1	853	847	890	863	2.70	cps
Bismuth	209-1	9593999	9640992	9492415	9575802	0.79	cps
Bismuth	209-2	8494334	8509111	8469402	8490949	0.24	cps
Bromine	81-1	16086	16252	16690	16342	1.91	cps
Bromine	81-2	197	203	227	209	7.54	cps
Cadmium	108-1	2530	2554	2570	2551	0.79	cps
Cadmium	106-1	28294	28281	28324	28300	0.08	cps
Cadmium	111-1	32636	32795	33122	32851	0.75	cps
Calcium	43-1	59897	59914	60152	59988	0.24	cps
Calcium	44-1	975419	982422	989688	982510	0.73	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	22547	22704	22761	22670	0.49	cps
Cobalt	59-2	83272	82867	83568	83236	0.42	cps
Copper	63-2	4030520	3997379	4024090	4017330	0.44	cps
Dysprosium	156-1	29378	30540	29935	29951	1.94	cps
Dysprosium	156-2	28152	28155	28616	28307	0.94	cps
Erbium	164-1	22298	22268	21931	22165	0.92	cps
Erbium	164-2	16827	16493	16717	16679	1.02	cps
Gadolinium	160-1	26185	26051	26539	26258	0.96	cps
Gadolinium	160-2	21243	21096	21453	21264	0.84	cps
Holmium	165-1	15491242	15273695	15314223	15359720	0.75	cps
Holmium	165-2	11455242	11401637	11404440	11420440	0.26	cps
Indium	115-1	12413775	12556132	12512750	12494219	0.58	cps
Indium	115-2	4961567	4979583	4974152	4971767	0.19	cps
Iron	56-2	99140012	99345142	98735039	99073397	0.31	cps
Iron	57-2	2458424	2456231	2446800	2453818	0.25	cps
Iron	54-2	5466989	5444504	5405727	5439073	0.57	cps
Krypton	83-1	227	200	293	240	20.03	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:48:47 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	28827154	29171238	28580391	28859594	1.03	cps
Lead	207-1	24544710	24474735	24366375	24461940	0.37	cps
Lead	208-1	112765310	113750059	111819217	112778195	0.86	cps
Lithium	6-1	1456354	1489321	1488946	1478207	1.28	cps
Magnesium	24-2	1249261	1251635	1253074	1251323	0.15	cps
Manganese	55-2	59880737	59564582	59718147	59721156	0.26	cps
Molybdenum	94-1	370973	374446	372892	372770	0.47	cps
Molybdenum	95-1	643534	650049	655868	649817	0.95	cps
Molybdenum	96-1	693096	706257	706766	702039	1.10	cps
Molybdenum	97-1	403780	408968	407491	406746	0.66	cps
Molybdenum	98-1	1038133	1039610	1050644	1042796	0.66	cps
Neodymium	150-1	48687	49737	49544	49323	1.13	cps
Neodymium	150-2	31863	31595	32010	31823	0.66	cps
Nickel	60-2	8429	8583	8569	8527	1.00	cps
Phosphorus	31-2	10334	10340	10237	10304	0.56	cps
Potassium	39-2	385928	384818	384775	385174	0.17	cps
Rhodium	103-1	11619422	11819785	11717726	11718978	0.85	cps
Rhodium	103-2	7093970	7099286	7137078	7110111	0.33	cps
Scandium	45-1	7018954	7088281	7123849	7077028	0.75	cps
Scandium	45-2	618847	617217	618874	618313	0.15	cps
Selenium	82-1	486	562	505	518	7.62	cps
Selenium	77-2	77	73	93	81	13.21	cps
Selenium	78-2	607	637	640	628	2.92	cps
Silicon	28-1	10680012	10936573	10684905	10767163	1.36	cps
Silver	107-1	265182	269674	272373	269076	1.35	cps
Silver	109-1	255199	257000	261282	257827	1.21	cps
Sodium	23-2	45320	45591	45437	45449	0.30	cps
Strontium	86-1	50021	50657	50299	50326	0.63	cps
Strontium	88-1	435416	439288	439867	438190	0.55	cps
Sulfur	34-1	216225	211354	206877	211485	2.21	cps
Terbium	159-1	15671697	15792227	15642330	15702085	0.51	cps
Terbium	159-2	11178774	11241489	11260004	11226756	0.38	cps
Thallium	203-1	4184	4307	4051	4181	3.07	cps
Thallium	205-1	10484	10291	9897	10224	2.93	cps
Tin	118-1	4187	4324	4024	4178	3.60	cps
Titanium	47-1	11885	12235	12172	12097	1.54	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DLX2 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:48:47 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	27762	28698	28394	28285	1.69	cps
Vanadium	51-2	56479	55351	55859	55896	1.01	cps
Yttrium	89-1	19366939	19667596	19600677	19545071	0.81	cps
Yttrium	89-2	5515977	5582783	5615974	5571578	0.91	cps
Zinc	66-2	3764373	3698275	3720606	3727751	0.90	cps
Zirconium	90-1	3537	3590	3434	3520	2.26	cps
Zirconium	91-1	707	707	763	726	4.51	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:51:50 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	497406	495383	498639	497143	0.33	cps
Antimony	121-1	471304	473483	477693	474160	0.68	cps
Arsenic	75-2	96199	96474	96387	96353	0.15	cps
Barium	135-1	61482	61074	61475	61344	0.38	cps
Barium	137-1	106153	106471	105541	106055	0.45	cps
Beryllium	9-1	640	600	580	607	5.04	cps
Bismuth	209-1	10867152	10707608	10594952	10723237	1.28	cps
Bismuth	209-2	9324817	9280445	9245002	9283421	0.43	cps
Bromine	81-1	17581	17487	17727	17598	0.69	cps
Bromine	81-2	287	273	240	267	9.01	cps
Cadmium	108-1	6361	6795	6722	6626	3.50	cps
Cadmium	106-1	34387	34531	34625	34514	0.35	cps
Cadmium	111-1	85204	83919	85180	84768	0.87	cps
Calcium	43-1	243645	243517	248239	245134	1.10	cps
Calcium	44-1	3864423	3866165	3938014	3889534	1.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16189	16402	16686	16426	1.52	cps
Cobalt	59-2	29489	29452	29102	29348	0.73	cps
Copper	63-2	4568660	4500985	4481627	4517091	1.01	cps
Dysprosium	156-1	11321	11668	11208	11399	2.10	cps
Dysprosium	156-2	10124	10344	10247	10238	1.08	cps
Erbium	164-1	9223	9020	9300	9181	1.58	cps
Erbium	164-2	6935	6782	6925	6881	1.25	cps
Gadolinium	160-1	10644	10751	10414	10603	1.62	cps
Gadolinium	160-2	9046	8986	8806	8946	1.40	cps
Holmium	165-1	15461541	15444537	15219308	15375129	0.88	cps
Holmium	165-2	11442680	11398225	11294332	11378412	0.67	cps
Indium	115-1	12952273	12831288	12723863	12835808	0.89	cps
Indium	115-2	5122736	5220377	5204803	5182639	1.01	cps
Iron	56-2	294281022	290939722	293764836	292995193	0.61	cps
Iron	57-2	7276749	7286655	7293970	7285791	0.12	cps
Iron	54-2	16096586	16071348	16062813	16076916	0.11	cps
Krypton	83-1	190	173	227	197	13.87	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:51:50 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	170907731	170899451	173047417	171618200	0.72	cps
Lead	207-1	147813468	152023301	149350928	149729232	1.42	cps
Lead	208-1	682773607	689623266	684102193	685499689	0.53	cps
Lithium	6-1	1457479	1393216	1425048	1425248	2.25	cps
Magnesium	24-2	276286	277004	277781	277024	0.27	cps
Manganese	55-2	78532324	78433966	78421674	78462654	0.08	cps
Molybdenum	94-1	112168	114521	115803	114164	1.61	cps
Molybdenum	95-1	193077	196091	195528	194898	0.82	cps
Molybdenum	96-1	212021	210777	213379	212059	0.61	cps
Molybdenum	97-1	119917	121117	122260	121098	0.97	cps
Molybdenum	98-1	304990	309348	313475	309271	1.37	cps
Neodymium	150-1	15275	15075	15228	15193	0.69	cps
Neodymium	150-2	9647	9770	9687	9701	0.65	cps
Nickel	60-2	5925	5848	5825	5866	0.89	cps
Phosphorus	31-2	7602	7832	7679	7704	1.52	cps
Potassium	39-2	460466	459974	461859	460766	0.21	cps
Rhodium	103-1	12008236	11855928	11825330	11896498	0.82	cps
Rhodium	103-2	7290965	7299720	7252875	7281187	0.34	cps
Scandium	45-1	7134303	7146509	7115664	7132159	0.22	cps
Scandium	45-2	646731	648405	640872	645336	0.61	cps
Selenium	82-1	1348	1402	1333	1361	2.67	cps
Selenium	77-2	110	143	160	138	18.48	cps
Selenium	78-2	917	847	1013	926	9.04	cps
Silicon	28-1	12510429	12733366	12716474	12653423	0.98	cps
Silver	107-1	998348	1004175	1010599	1004374	0.61	cps
Silver	109-1	953193	955222	964216	957544	0.61	cps
Sodium	23-2	82124	81055	81672	81617	0.66	cps
Strontium	86-1	77502	79181	78745	78476	1.11	cps
Strontium	88-1	675844	685124	684815	681927	0.77	cps
Sulfur	34-1	1691421	1738279	1737639	1722446	1.56	cps
Terbium	159-1	15978382	15762109	15946217	15895569	0.73	cps
Terbium	159-2	11122462	11316409	11134611	11191161	0.97	cps
Thallium	203-1	7752	7616	7429	7599	2.14	cps
Thallium	205-1	17752	17872	17722	17782	0.45	cps
Tin	118-1	26645	26635	26952	26744	0.67	cps
Titanium	47-1	49882	50246	50798	50309	0.92	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DLX2 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:51:50 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	21311	21287	21604	21401	0.83	cps
Vanadium	51-2	32281	32976	33086	32781	1.33	cps
Yttrium	89-1	19587212	19264921	19216667	19356267	1.04	cps
Yttrium	89-2	5732875	5645252	5669673	5682600	0.80	cps
Zinc	66-2	7410313	7328130	7412360	7383601	0.65	cps
Zirconium	90-1	9517	9587	9944	9682	2.37	cps
Zirconium	91-1	2127	2247	2097	2157	3.68	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DLX2 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:54:58 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1343286	1337065	1328651	1336334	0.55	cps
Antimony	121-1	293916	295757	293861	294511	0.37	cps
Arsenic	75-2	30385	29800	30301	30162	1.05	cps
Barium	135-1	299739	302367	301593	301233	0.45	cps
Barium	137-1	521611	522239	524758	522870	0.32	cps
Beryllium	9-1	737	657	637	677	7.82	cps
Bismuth	209-1	13777065	13944852	14021294	13914404	0.90	cps
Bismuth	209-2	11944944	11972977	11950666	11956196	0.12	cps
Bromine	81-1	18522	18318	18081	18307	1.20	cps
Bromine	81-2	430	447	420	432	3.12	cps
Cadmium	108-1	5168	5204	5444	5272	2.85	cps
Cadmium	106-1	33499	33799	33295	33531	0.76	cps
Cadmium	111-1	72434	71427	72950	72270	1.07	cps
Calcium	43-1	64476	66050	66452	65659	1.59	cps
Calcium	44-1	1072752	1073249	1073018	1073006	0.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19673	20000	19770	19814	0.85	cps
Cobalt	59-2	97151	97027	97065	97081	0.07	cps
Copper	63-2	26235143	25656404	25810258	25900602	1.16	cps
Dysprosium	156-1	25513	25891	25286	25563	1.19	cps
Dysprosium	156-2	23550	23890	23757	23732	0.72	cps
Erbium	164-1	21563	21991	21350	21635	1.51	cps
Erbium	164-2	16350	15826	15756	15977	2.03	cps
Gadolinium	160-1	23072	23941	23650	23554	1.88	cps
Gadolinium	160-2	18826	18766	18889	18827	0.33	cps
Holmium	165-1	15643765	15717119	15459406	15606763	0.85	cps
Holmium	165-2	11444662	11397482	11392507	11411550	0.25	cps
Indium	115-1	13035099	12735655	12697408	12822721	1.44	cps
Indium	115-2	5091067	5054292	5098577	5081312	0.47	cps
Iron	56-2	172118364	170791657	170963281	171291101	0.42	cps
Iron	57-2	4221143	4224410	4229132	4224895	0.10	cps
Iron	54-2	9309595	9321948	9281162	9304235	0.22	cps
Krypton	83-1	277	173	273	241	24.35	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DLX2 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:54:58 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	115212385	115446268	118097255	116251969	1.38	cps
Lead	207-1	97719699	97208505	98741675	97889960	0.80	cps
Lead	208-1	451703167	451037263	454598780	452446403	0.42	cps
Lithium	6-1	1425798	1384506	1408012	1406105	1.47	cps
Magnesium	24-2	1176592	1109550	1169635	1151925	3.20	cps
Manganese	55-2	46438679	46413416	46342888	46398328	0.11	cps
Molybdenum	94-1	174800	176233	175579	175537	0.41	cps
Molybdenum	95-1	300988	300408	300709	300702	0.10	cps
Molybdenum	96-1	327733	324121	330263	327372	0.94	cps
Molybdenum	97-1	186584	189029	188158	187924	0.66	cps
Molybdenum	98-1	479700	487027	482306	483011	0.77	cps
Neodymium	150-1	39525	37881	39057	38821	2.18	cps
Neodymium	150-2	25086	25526	25006	25206	1.11	cps
Nickel	60-2	9526	9266	9083	9292	2.40	cps
Phosphorus	31-2	9883	10264	9943	10030	2.04	cps
Potassium	39-2	421297	420219	416120	419212	0.65	cps
Rhodium	103-1	12189178	11959760	12048432	12065790	0.96	cps
Rhodium	103-2	7347284	7346127	7308440	7333950	0.30	cps
Scandium	45-1	7202411	7191578	7166409	7186799	0.26	cps
Scandium	45-2	655174	651288	645188	650550	0.77	cps
Selenium	82-1	1249	1414	1265	1310	6.96	cps
Selenium	77-2	187	163	160	170	8.55	cps
Selenium	78-2	987	930	1050	989	6.07	cps
Silicon	28-1	11547578	11396167	11503729	11482491	0.68	cps
Silver	107-1	1259887	1260037	1270957	1263627	0.50	cps
Silver	109-1	1202577	1211529	1207201	1207102	0.37	cps
Sodium	23-2	56543	56383	56921	56616	0.49	cps
Strontium	86-1	74943	74346	74855	74715	0.43	cps
Strontium	88-1	652826	660368	660576	657923	0.67	cps
Sulfur	34-1	527705	530482	525841	528009	0.44	cps
Terbium	159-1	15934481	15700970	15940377	15858609	0.86	cps
Terbium	159-2	11351522	11332482	11233472	11305825	0.56	cps
Thallium	203-1	3254	3137	3304	3232	2.65	cps
Thallium	205-1	7529	7399	7465	7464	0.87	cps
Tin	118-1	663462	659186	665556	662735	0.49	cps
Titanium	47-1	47317	48387	47655	47786	1.14	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DLX2 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:54:58 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	32289	32600	31892	32260	1.10	cps
Vanadium	51-2	59106	58941	58436	58828	0.59	cps
Yttrium	89-1	20055682	19839794	19972656	19956044	0.55	cps
Yttrium	89-2	5761159	5820010	5687409	5756193	1.15	cps
Zinc	66-2	4120203	4041478	4048583	4070088	1.07	cps
Zirconium	90-1	8983	9076	9103	9054	0.70	cps
Zirconium	91-1	1953	2107	1883	1981	5.77	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DLX2 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:58:04 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	523785	528262	520843	524296	0.71	cps
Antimony	121-1	318158	317641	317165	317654	0.16	cps
Arsenic	75-2	492981	495150	490367	492833	0.49	cps
Barium	135-1	242114	242623	240106	241614	0.55	cps
Barium	137-1	415734	418906	419785	418141	0.51	cps
Beryllium	9-1	443	413	447	434	4.23	cps
Bismuth	209-1	11056583	11058852	11032399	11049278	0.13	cps
Bismuth	209-2	9429667	9419782	9444028	9431159	0.13	cps
Bromine	81-1	16940	16449	17224	16871	2.32	cps
Bromine	81-2	320	363	327	337	6.93	cps
Cadmium	108-1	1590	1620	1707	1639	3.70	cps
Cadmium	106-1	28111	27419	27159	27563	1.78	cps
Cadmium	111-1	23060	22927	22637	22875	0.95	cps
Calcium	43-1	3269949	3276676	3185403	3244009	1.57	cps
Calcium	44-1	53363211	52926636	51752459	52680769	1.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21162	21402	21482	21348	0.78	cps
Cobalt	59-2	35876	35552	36030	35819	0.68	cps
Copper	63-2	6644555	6682592	6663600	6663582	0.29	cps
Dysprosium	156-1	12512	12339	12739	12530	1.60	cps
Dysprosium	156-2	10291	10567	10821	10560	2.51	cps
Erbium	164-1	10504	10397	10631	10511	1.11	cps
Erbium	164-2	7712	7832	7519	7688	2.06	cps
Gadolinium	160-1	12362	11832	11905	12033	2.39	cps
Gadolinium	160-2	9717	9750	9200	9556	3.23	cps
Holmium	165-1	15652362	15638923	15562709	15617998	0.31	cps
Holmium	165-2	11384442	11234950	11398739	11339377	0.80	cps
Indium	115-1	12760594	12560309	12394821	12571908	1.46	cps
Indium	115-2	4840184	4847630	4880275	4856030	0.44	cps
Iron	56-2	87357472	87619532	88182579	87719861	0.48	cps
Iron	57-2	2255447	2286913	2275213	2272524	0.70	cps
Iron	54-2	4737435	4773185	4781522	4764047	0.49	cps
Krypton	83-1	230	243	220	231	5.07	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DLX2 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:58:04 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	62112401	62657891	62407056	62392449	0.44	cps
Lead	207-1	51988498	52560706	53513244	52687483	1.46	cps
Lead	208-1	242363516	245290861	246409835	244688071	0.85	cps
Lithium	6-1	1530602	1517777	1518388	1522256	0.48	cps
Magnesium	24-2	483451	484674	484026	484050	0.13	cps
Manganese	55-2	5332043	5383195	5345555	5353597	0.50	cps
Molybdenum	94-1	52734	53320	52330	52795	0.94	cps
Molybdenum	95-1	87935	87727	88509	88057	0.46	cps
Molybdenum	96-1	97173	97539	95996	96903	0.83	cps
Molybdenum	97-1	55682	55404	55318	55468	0.34	cps
Molybdenum	98-1	141820	142770	141611	142067	0.43	cps
Neodymium	150-1	16146	16436	15522	16035	2.91	cps
Neodymium	150-2	10017	10451	9894	10120	2.89	cps
Nickel	60-2	10130	9703	9486	9773	3.35	cps
Phosphorus	31-2	4717	4884	4661	4754	2.44	cps
Potassium	39-2	343296	346169	344182	344549	0.43	cps
Rhodium	103-1	11734464	11563559	11523942	11607322	0.96	cps
Rhodium	103-2	6872517	6947048	6866832	6895466	0.65	cps
Scandium	45-1	7097208	6973815	6915194	6995406	1.33	cps
Scandium	45-2	590060	591671	587571	589767	0.35	cps
Selenium	82-1	954	969	875	933	5.41	cps
Selenium	77-2	100	93	67	87	20.35	cps
Selenium	78-2	717	567	620	634	11.99	cps
Silicon	28-1	8161130	7986854	8550531	8232839	3.51	cps
Silver	107-1	685189	682026	681790	683002	0.28	cps
Silver	109-1	651063	653321	655836	653407	0.37	cps
Sodium	23-2	84637	84979	84175	84597	0.48	cps
Strontium	86-1	172200	172628	170663	171831	0.60	cps
Strontium	88-1	1542759	1542994	1539286	1541680	0.13	cps
Sulfur	34-1	496355	498277	489905	494845	0.89	cps
Terbium	159-1	16139320	16108149	15859955	16035808	0.95	cps
Terbium	159-2	11316391	11052010	11145708	11171370	1.20	cps
Thallium	203-1	9377	9437	9363	9392	0.42	cps
Thallium	205-1	22148	22272	21350	21923	2.28	cps
Tin	118-1	361835	361618	359411	360955	0.37	cps
Titanium	47-1	18979	19086	18768	18944	0.85	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DLX2 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 17:58:04 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13801	14058	14078	13979	1.10	cps
Vanadium	51-2	26570	27308	26597	26825	1.56	cps
Yttrium	89-1	19809261	19290661	19142379	19414101	1.80	cps
Yttrium	89-2	5360798	5382284	5350512	5364532	0.30	cps
Zinc	66-2	1358475	1364834	1360396	1361235	0.24	cps
Zirconium	90-1	7045	7115	7148	7103	0.74	cps
Zirconium	91-1	2317	2234	2514	2355	6.11	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06DLX2 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:01:09 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	733946	734197	733635	733926	0.04	cps
Antimony	121-1	55828	58384	57926	57379	2.38	cps
Arsenic	75-2	24273	24363	24944	24527	1.49	cps
Barium	135-1	357726	367233	365645	363535	1.40	cps
Barium	137-1	622214	637682	639994	633297	1.53	cps
Beryllium	9-1	1087	1137	1087	1103	2.62	cps
Bismuth	209-1	10408019	9797290	9770048	9991786	3.61	cps
Bismuth	209-2	8647906	8417829	8397808	8487848	1.64	cps
Bromine	81-1	16426	17070	16673	16723	1.94	cps
Bromine	81-2	463	367	357	396	14.89	cps
Cadmium	108-1	597	433	543	524	15.88	cps
Cadmium	106-1	26441	25326	26434	26067	2.46	cps
Cadmium	111-1	8494	8467	8441	8468	0.32	cps
Calcium	43-1	49808	51778	52076	51221	2.41	cps
Calcium	44-1	813257	827394	833340	824664	1.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29021	29586	28818	29141	1.37	cps
Cobalt	59-2	21866	22347	21372	21862	2.23	cps
Copper	63-2	1015678	1026059	1023150	1021629	0.52	cps
Dysprosium	156-1	23543	23763	23984	23764	0.93	cps
Dysprosium	156-2	21597	22241	21727	21855	1.56	cps
Erbium	164-1	16360	16784	16940	16695	1.80	cps
Erbium	164-2	12796	12306	12739	12614	2.13	cps
Gadolinium	160-1	21139	22735	22298	22057	3.74	cps
Gadolinium	160-2	17524	17357	17514	17465	0.54	cps
Holmium	165-1	16408439	15709132	15549079	15888883	2.88	cps
Holmium	165-2	11882787	11497047	11384824	11588219	2.25	cps
Indium	115-1	13199867	12494950	12703581	12799466	2.83	cps
Indium	115-2	5236792	5092281	5104785	5144619	1.56	cps
Iron	56-2	111805698	111059255	112189502	111684818	0.51	cps
Iron	57-2	2781220	2781848	2794698	2785922	0.27	cps
Iron	54-2	6079282	6101463	6069911	6083552	0.27	cps
Krypton	83-1	213	200	173	196	10.41	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06DLX2 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:01:09 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	36322145	37591004	36720712	36877954	1.76	cps
Lead	207-1	31341128	32569095	31963359	31957860	1.92	cps
Lead	208-1	144283825	149077631	145554171	146305209	1.70	cps
Lithium	6-1	1611696	1492578	1490446	1531573	4.53	cps
Magnesium	24-2	582405	581882	581959	582082	0.05	cps
Manganese	55-2	12844424	13035534	12984847	12954935	0.76	cps
Molybdenum	94-1	59327	61364	62844	61178	2.89	cps
Molybdenum	95-1	101442	106729	105406	104525	2.63	cps
Molybdenum	96-1	110272	115952	117356	114527	3.28	cps
Molybdenum	97-1	63350	66842	66848	65680	3.07	cps
Molybdenum	98-1	163067	169892	170523	167827	2.46	cps
Neodymium	150-1	35107	36754	36544	36135	2.48	cps
Neodymium	150-2	23152	23900	23112	23388	1.90	cps
Nickel	60-2	3997	3757	3844	3866	3.14	cps
Phosphorus	31-2	10911	10454	10677	10680	2.14	cps
Potassium	39-2	306941	309346	308301	308196	0.39	cps
Rhodium	103-1	12174282	11795696	11676549	11882176	2.19	cps
Rhodium	103-2	7465626	7307545	7177502	7316891	1.97	cps
Scandium	45-1	7194129	6985012	6887895	7022345	2.23	cps
Scandium	45-2	636606	630286	627389	631427	0.75	cps
Selenium	82-1	550	570	588	569	3.41	cps
Selenium	77-2	67	83	67	72	13.32	cps
Selenium	78-2	570	633	470	558	14.76	cps
Silicon	28-1	8031010	8271253	8277052	8193105	1.71	cps
Silver	107-1	176834	182796	183724	181118	2.06	cps
Silver	109-1	168435	175283	175036	172918	2.25	cps
Sodium	23-2	50700	51961	51445	51369	1.23	cps
Strontium	86-1	130742	134938	135422	133701	1.93	cps
Strontium	88-1	1136484	1177218	1185352	1166351	2.24	cps
Sulfur	34-1	295294	300873	299949	298705	1.00	cps
Terbium	159-1	16706667	15966834	16075440	16249647	2.46	cps
Terbium	159-2	11584695	11468860	11175263	11409606	1.85	cps
Thallium	203-1	1527	1383	1540	1483	5.86	cps
Thallium	205-1	3584	3474	3561	3539	1.64	cps
Tin	118-1	7705	7715	7609	7677	0.77	cps
Titanium	47-1	45990	47952	48979	47640	3.19	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-06DLX2 Instrumnet Name : P7
Client Sample ID : MH2D41 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:01:09 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13961	14144	14024	14043	0.66	cps
Vanadium	51-2	26871	27301	27776	27316	1.66	cps
Yttrium	89-1	20109153	19498578	19388881	19665537	1.97	cps
Yttrium	89-2	5758111	5600014	5561460	5639862	1.85	cps
Zinc	66-2	560539	559390	564955	561628	0.52	cps
Zirconium	90-1	3390	3380	3457	3409	1.22	cps
Zirconium	91-1	713	907	803	808	11.98	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DLX2 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:04:15 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	156791	155451	157791	156678	0.75	cps
Antimony	121-1	2535333	2575305	2567491	2559376	0.83	cps
Arsenic	75-2	940052	939115	944694	941287	0.32	cps
Barium	135-1	323038	329640	331465	328048	1.35	cps
Barium	137-1	568604	572238	574204	571682	0.50	cps
Beryllium	9-1	100	93	113	102	9.96	cps
Bismuth	209-1	20880555	21088986	21146907	21038816	0.67	cps
Bismuth	209-2	18321324	18152059	17966021	18146468	0.98	cps
Bromine	81-1	17761	18201	18158	18040	1.35	cps
Bromine	81-2	257	273	237	256	7.18	cps
Cadmium	108-1	1160	1140	1217	1172	3.39	cps
Cadmium	106-1	27529	26688	27817	27345	2.15	cps
Cadmium	111-1	15978	15831	15620	15810	1.14	cps
Calcium	43-1	4164	4144	4097	4135	0.83	cps
Calcium	44-1	69599	70359	70453	70137	0.67	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7382	7779	7425	7529	2.89	cps
Cobalt	59-2	7732	8012	7665	7803	2.36	cps
Copper	63-2	22458002	22537073	22587010	22527362	0.29	cps
Dysprosium	156-1	3284	3384	3337	3335	1.50	cps
Dysprosium	156-2	3104	3130	3170	3135	1.07	cps
Erbium	164-1	1803	1817	1813	1811	0.38	cps
Erbium	164-2	1320	1370	1393	1361	2.75	cps
Gadolinium	160-1	2700	2710	2847	2753	2.98	cps
Gadolinium	160-2	2750	2814	2724	2763	1.67	cps
Holmium	165-1	15512078	15657853	15869509	15679813	1.15	cps
Holmium	165-2	11690404	11659236	11426781	11592140	1.24	cps
Indium	115-1	13037741	13211739	13292466	13180649	0.99	cps
Indium	115-2	5271253	5244916	5341142	5285770	0.94	cps
Iron	56-2	327048895	324932702	324902348	325627982	0.38	cps
Iron	57-2	8090402	8040306	8042836	8057848	0.35	cps
Iron	54-2	17822288	17742420	17700660	17755123	0.35	cps
Krypton	83-1	183	277	190	217	24.03	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DLX2 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:04:15 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	261121363	264859156	265732389	263904303	0.93	cps
Lead	207-1	223366450	227763110	226203657	225777739	0.99	cps
Lead	208-1	1029728845	1042576924	1044200024	1038835265	0.76	cps
Lithium	6-1	1374928	1373681	1360746	1369785	0.57	cps
Magnesium	24-2	49539	51787	50720	50682	2.22	cps
Manganese	55-2	2568470	2578221	2598867	2581852	0.60	cps
Molybdenum	94-1	353246	362621	365894	360587	1.82	cps
Molybdenum	95-1	621003	627641	632550	627065	0.92	cps
Molybdenum	96-1	670003	686347	683514	679955	1.28	cps
Molybdenum	97-1	389738	396547	399909	395398	1.31	cps
Molybdenum	98-1	996430	1016894	1019125	1010816	1.24	cps
Neodymium	150-1	6375	6935	6241	6517	5.65	cps
Neodymium	150-2	4147	3904	4114	4055	3.25	cps
Nickel	60-2	1820	1873	2114	1936	8.07	cps
Phosphorus	31-2	5674	5865	5584	5708	2.51	cps
Potassium	39-2	1257408	1239335	1246614	1247786	0.73	cps
Rhodium	103-1	12062907	12079925	12349294	12164042	1.32	cps
Rhodium	103-2	7489522	7486644	7581738	7519301	0.72	cps
Scandium	45-1	7083026	7160187	7164195	7135803	0.64	cps
Scandium	45-2	667031	664953	670555	667513	0.42	cps
Selenium	82-1	1897	1925	1921	1914	0.79	cps
Selenium	77-2	160	217	203	193	15.33	cps
Selenium	78-2	1200	1030	953	1061	11.90	cps
Silicon	28-1	4598047	4737206	4781415	4705556	2.03	cps
Silver	107-1	1295523	1329629	1333951	1319701	1.60	cps
Silver	109-1	1249283	1273898	1274040	1265740	1.13	cps
Sodium	23-2	63895	64976	65030	64634	0.99	cps
Strontium	86-1	84480	85681	85657	85273	0.80	cps
Strontium	88-1	735996	749832	749714	745181	1.07	cps
Sulfur	34-1	964641	983074	969961	972559	0.98	cps
Terbium	159-1	16017231	16014734	16290099	16107354	0.98	cps
Terbium	159-2	11585334	11411553	11411797	11469561	0.87	cps
Thallium	203-1	23166	23300	23126	23198	0.39	cps
Thallium	205-1	55553	55884	55938	55791	0.37	cps
Tin	118-1	303052	310875	312019	308649	1.58	cps
Titanium	47-1	4771	4457	4891	4706	4.76	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DLX2 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:04:15 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9310	9250	9200	9253	0.60	cps
Vanadium	51-2	52665	52180	52652	52499	0.53	cps
Yttrium	89-1	19417231	19875007	20064175	19785471	1.68	cps
Yttrium	89-2	5769751	5772636	5865378	5802588	0.94	cps
Zinc	66-2	1426563	1436616	1441266	1434815	0.52	cps
Zirconium	90-1	2000	2054	1740	1931	8.68	cps
Zirconium	91-1	1693	1650	1720	1688	2.09	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:07:25 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	330455	330626	328380	329820	0.38	cps
Antimony	121-1	1047439	1060973	1062141	1056851	0.77	cps
Arsenic	75-2	463237	458362	455633	459078	0.84	cps
Barium	135-1	168469	167509	168626	168201	0.36	cps
Barium	137-1	291756	293012	294904	293224	0.54	cps
Beryllium	9-1	127	133	170	143	16.28	cps
Bismuth	209-1	16341021	16344933	16407744	16364566	0.23	cps
Bismuth	209-2	14300112	14030638	14200464	14177072	0.96	cps
Bromine	81-1	18255	18485	18592	18444	0.93	cps
Bromine	81-2	273	257	303	278	8.51	cps
Cadmium	108-1	9950	10851	9947	10249	5.08	cps
Cadmium	106-1	40212	39323	40463	39999	1.50	cps
Cadmium	111-1	131991	133294	133075	132787	0.53	cps
Calcium	43-1	13630	13616	13092	13446	2.28	cps
Calcium	44-1	226256	227647	224247	226050	0.76	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11848	11501	11758	11702	1.54	cps
Cobalt	59-2	42951	42701	42259	42637	0.82	cps
Copper	63-2	19395752	19092104	19196212	19228023	0.80	cps
Dysprosium	156-1	5441	5431	5358	5410	0.84	cps
Dysprosium	156-2	5054	4898	5021	4991	1.65	cps
Erbium	164-1	4114	4034	3914	4021	2.50	cps
Erbium	164-2	2884	3077	2820	2927	4.57	cps
Gadolinium	160-1	4981	5081	5011	5024	1.02	cps
Gadolinium	160-2	4364	4077	4387	4276	4.04	cps
Holmium	165-1	16047290	15959010	15978263	15994854	0.29	cps
Holmium	165-2	11771917	11661809	11633424	11689050	0.63	cps
Indium	115-1	13589156	13491704	13456446	13512435	0.51	cps
Indium	115-2	5444061	5406756	5451334	5434051	0.44	cps
Iron	56-2	342023982	342194115	340302528	341506875	0.31	cps
Iron	57-2	8486372	8382822	8387100	8418765	0.70	cps
Iron	54-2	18770073	18631483	18708461	18703339	0.37	cps
Krypton	83-1	223	230	213	222	3.77	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:07:25 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	251605356	254414036	254975216	253664870	0.71	cps
Lead	207-1	216469377	216898830	215327383	216231863	0.38	cps
Lead	208-1	997011712	1009930912	1000224258	1002388961	0.67	cps
Lithium	6-1	1340568	1338407	1346493	1341823	0.31	cps
Magnesium	24-2	186373	182772	185641	184929	1.03	cps
Manganese	55-2	7375703	7335959	7315034	7342232	0.42	cps
Molybdenum	94-1	314813	320149	318058	317674	0.85	cps
Molybdenum	95-1	540246	552676	546624	546516	1.14	cps
Molybdenum	96-1	593962	599670	606391	600007	1.04	cps
Molybdenum	97-1	340381	345724	344297	343467	0.81	cps
Molybdenum	98-1	875218	878377	885221	879605	0.58	cps
Neodymium	150-1	8099	8513	8062	8225	3.04	cps
Neodymium	150-2	5141	5541	5264	5316	3.86	cps
Nickel	60-2	3867	3941	3947	3918	1.13	cps
Phosphorus	31-2	5364	5111	5194	5223	2.47	cps
Potassium	39-2	1170117	1160451	1165515	1165361	0.41	cps
Rhodium	103-1	12484829	12350996	12327432	12387752	0.69	cps
Rhodium	103-2	7603108	7557438	7632952	7597833	0.50	cps
Scandium	45-1	7386695	7188425	7299206	7291442	1.36	cps
Scandium	45-2	676204	673127	674913	674748	0.23	cps
Selenium	82-1	1673	1634	1630	1646	1.44	cps
Selenium	77-2	143	127	157	142	10.57	cps
Selenium	78-2	1107	1057	1000	1054	5.06	cps
Silicon	28-1	5782035	5894477	5818111	5831541	0.98	cps
Silver	107-1	1613398	1586612	1639964	1613325	1.65	cps
Silver	109-1	1490260	1514794	1500548	1501867	0.82	cps
Sodium	23-2	68498	67855	67872	68075	0.54	cps
Strontium	86-1	63332	64440	63342	63705	1.00	cps
Strontium	88-1	551344	558127	560454	556642	0.85	cps
Sulfur	34-1	1443317	1481016	1469844	1464726	1.32	cps
Terbium	159-1	16425556	16484497	16301703	16403919	0.57	cps
Terbium	159-2	11680364	11493233	11522600	11565399	0.87	cps
Thallium	203-1	16447	16767	16507	16573	1.03	cps
Thallium	205-1	38020	39343	39163	38842	1.85	cps
Tin	118-1	282516	284041	285097	283885	0.46	cps
Titanium	47-1	5711	5781	5871	5788	1.39	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DLX2 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:07:25 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15042	14785	15326	15051	1.80	cps
Vanadium	51-2	51668	50176	50150	50665	1.72	cps
Yttrium	89-1	20349281	20258544	20297245	20301690	0.22	cps
Yttrium	89-2	5942568	5881762	5850608	5891646	0.79	cps
Zinc	66-2	9721998	9645680	9541355	9636345	0.94	cps
Zirconium	90-1	2867	2587	2477	2644	7.61	cps
Zirconium	91-1	1153	1217	1123	1165	4.09	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:10:33 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	894981	893821	885157	891320	0.60	cps
Antimony	121-1	439332	444121	440342	441265	0.57	cps
Arsenic	75-2	77226	78426	77018	77557	0.98	cps
Barium	135-1	434703	436902	437046	436217	0.30	cps
Barium	137-1	753621	762546	759945	758704	0.60	cps
Beryllium	9-1	247	270	247	254	5.29	cps
Bismuth	209-1	14358573	14050368	14099089	14169344	1.17	cps
Bismuth	209-2	12335043	12143760	12155894	12211566	0.88	cps
Bromine	81-1	19086	18942	19416	19148	1.27	cps
Bromine	81-2	530	470	523	508	6.48	cps
Cadmium	108-1	950	960	1053	988	5.77	cps
Cadmium	106-1	28007	28234	27873	28038	0.65	cps
Cadmium	111-1	13720	14320	13581	13874	2.83	cps
Calcium	43-1	38071	38044	38255	38123	0.30	cps
Calcium	44-1	619552	628255	624014	623940	0.70	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	61073	59985	60427	60495	0.90	cps
Cobalt	59-2	38062	38088	38015	38055	0.10	cps
Copper	63-2	10774252	10883431	10766795	10808159	0.60	cps
Dysprosium	156-1	14671	15055	14895	14874	1.30	cps
Dysprosium	156-2	13774	14468	14177	14139	2.47	cps
Erbium	164-1	9887	9880	9970	9912	0.51	cps
Erbium	164-2	7149	7285	7349	7261	1.41	cps
Gadolinium	160-1	11979	12572	12179	12243	2.47	cps
Gadolinium	160-2	9997	9617	9864	9826	1.96	cps
Holmium	165-1	16513534	15965491	16020450	16166491	1.87	cps
Holmium	165-2	11672523	11634549	11645987	11651020	0.17	cps
Indium	115-1	13493606	13053192	12942354	13163051	2.22	cps
Indium	115-2	5305789	5273539	5242041	5273790	0.60	cps
Iron	56-2	360047595	354405435	356063755	356838928	0.81	cps
Iron	57-2	8913332	8772781	8731747	8805953	1.08	cps
Iron	54-2	19645353	19324024	19492615	19487331	0.82	cps
Krypton	83-1	190	240	223	218	11.69	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:10:33 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	273856889	275427823	276244063	275176258	0.44	cps
Lead	207-1	234180890	236250456	234878877	235103408	0.45	cps
Lead	208-1	1090866370	1093392697	1087931810	1090730293	0.25	cps
Lithium	6-1	1389841	1302222	1336703	1342922	3.29	cps
Magnesium	24-2	787595	778532	779655	781927	0.63	cps
Manganese	55-2	4229988	4182210	4169612	4193937	0.76	cps
Molybdenum	94-1	167317	166569	168608	167498	0.62	cps
Molybdenum	95-1	286603	286084	286056	286248	0.11	cps
Molybdenum	96-1	314758	315102	311297	313719	0.67	cps
Molybdenum	97-1	180736	180117	181876	180910	0.49	cps
Molybdenum	98-1	460911	464526	460810	462082	0.46	cps
Neodymium	150-1	23420	23890	23960	23757	1.24	cps
Neodymium	150-2	15555	15128	14721	15135	2.76	cps
Nickel	60-2	16005	15632	15572	15736	1.49	cps
Phosphorus	31-2	15698	15868	15418	15661	1.45	cps
Potassium	39-2	473351	472531	475278	473720	0.30	cps
Rhodium	103-1	12703509	12264779	12457634	12475308	1.76	cps
Rhodium	103-2	7572843	7523612	7447607	7514687	0.84	cps
Scandium	45-1	7325832	7262713	7306199	7298248	0.44	cps
Scandium	45-2	677031	670453	673790	673758	0.49	cps
Selenium	82-1	1474	1470	1492	1479	0.77	cps
Selenium	77-2	150	153	147	150	2.22	cps
Selenium	78-2	1043	1077	953	1024	6.23	cps
Silicon	28-1	6891391	6900990	6974649	6922343	0.66	cps
Silver	107-1	1331168	1332977	1331729	1331958	0.07	cps
Silver	109-1	1254461	1270171	1265456	1263363	0.64	cps
Sodium	23-2	95315	95416	94242	94991	0.68	cps
Strontium	86-1	77576	77878	79268	78241	1.15	cps
Strontium	88-1	684174	687288	688605	686689	0.33	cps
Sulfur	34-1	631158	626612	631383	629718	0.43	cps
Terbium	159-1	16463392	16466527	16530539	16486819	0.23	cps
Terbium	159-2	11533265	11552099	11635393	11573586	0.47	cps
Thallium	203-1	2954	3277	2927	3053	6.38	cps
Thallium	205-1	7612	7646	7499	7586	1.01	cps
Tin	118-1	264029	265981	263665	264558	0.47	cps
Titanium	47-1	88155	90056	88265	88825	1.20	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DLX2 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:10:33 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	21584	21043	21441	21356	1.31	cps
Vanadium	51-2	66389	66304	65197	65963	1.01	cps
Yttrium	89-1	20667088	20390590	20391764	20483148	0.78	cps
Yttrium	89-2	5920577	5868785	5933944	5907769	0.58	cps
Zinc	66-2	960099	953568	951502	955056	0.47	cps
Zirconium	90-1	6488	6221	6328	6346	2.12	cps
Zirconium	91-1	1517	1540	1520	1526	0.83	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10DLX2 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:13:46 DataFile Name : 077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1836850	1847200	1832847	1838966	0.40	cps
Antimony	121-1	73151	73446	73466	73355	0.24	cps
Arsenic	75-2	30939	30448	29960	30449	1.61	cps
Barium	135-1	421822	419117	420273	420404	0.32	cps
Barium	137-1	732770	735915	735252	734646	0.23	cps
Beryllium	9-1	643	640	633	639	0.80	cps
Bismuth	209-1	9812545	9825907	9818227	9818893	0.07	cps
Bismuth	209-2	8728948	8538518	8504387	8590618	1.41	cps
Bromine	81-1	19186	19777	19480	19481	1.52	cps
Bromine	81-2	627	733	623	661	9.46	cps
Cadmium	108-1	2607	2924	2594	2708	6.90	cps
Cadmium	106-1	30071	30472	29503	30016	1.62	cps
Cadmium	111-1	37217	36270	37123	36870	1.41	cps
Calcium	43-1	73041	72579	71414	72345	1.16	cps
Calcium	44-1	1178703	1172697	1173990	1175130	0.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37420	37213	37246	37293	0.30	cps
Cobalt	59-2	58865	58651	58908	58808	0.23	cps
Copper	63-2	2090240	2043001	2030173	2054471	1.54	cps
Dysprosium	156-1	32247	31318	32337	31967	1.76	cps
Dysprosium	156-2	29628	29401	29738	29589	0.58	cps
Erbium	164-1	21750	21557	21450	21586	0.71	cps
Erbium	164-2	16133	15933	15349	15805	2.58	cps
Gadolinium	160-1	27380	27928	27500	27603	1.04	cps
Gadolinium	160-2	21199	20956	21149	21102	0.61	cps
Holmium	165-1	15814455	15996831	15811786	15874357	0.67	cps
Holmium	165-2	11653631	11754512	11476517	11628220	1.21	cps
Indium	115-1	12947268	13034724	13212843	13064945	1.04	cps
Indium	115-2	5193884	5220184	5164772	5192947	0.53	cps
Iron	56-2	189909084	189875784	188879511	189554793	0.31	cps
Iron	57-2	4734035	4655326	4690885	4693415	0.84	cps
Iron	54-2	10526331	10342710	10415884	10428309	0.89	cps
Krypton	83-1	180	230	213	208	12.25	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10DLX2 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:13:46 DataFile Name : 077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	26281203	25683547	25842721	25935824	1.19	cps
Lead	207-1	22483815	22423936	22294313	22400688	0.43	cps
Lead	208-1	103220212	102393462	102490085	102701253	0.44	cps
Lithium	6-1	1353585	1386274	1386017	1375292	1.37	cps
Magnesium	24-2	1936517	1917895	1910217	1921543	0.70	cps
Manganese	55-2	5908670	5881105	5885888	5891887	0.25	cps
Molybdenum	94-1	43020	43347	43377	43248	0.46	cps
Molybdenum	95-1	70686	70981	69728	70465	0.93	cps
Molybdenum	96-1	79863	79578	78710	79384	0.76	cps
Molybdenum	97-1	44645	44243	44615	44501	0.50	cps
Molybdenum	98-1	112922	113503	112506	112977	0.44	cps
Neodymium	150-1	52099	52066	52507	52224	0.47	cps
Neodymium	150-2	33363	33369	33620	33451	0.44	cps
Nickel	60-2	11191	11201	11471	11288	1.41	cps
Phosphorus	31-2	22977	23602	22844	23141	1.75	cps
Potassium	39-2	813375	808177	809454	810335	0.33	cps
Rhodium	103-1	12023273	12262253	12103576	12129701	1.00	cps
Rhodium	103-2	7431149	7438308	7429079	7432846	0.07	cps
Scandium	45-1	7185244	7286621	7132509	7201458	1.09	cps
Scandium	45-2	662426	651287	651568	655094	0.97	cps
Selenium	82-1	660	598	632	630	4.86	cps
Selenium	77-2	127	120	143	130	9.25	cps
Selenium	78-2	640	657	733	677	7.36	cps
Silicon	28-1	12044329	11961857	12014251	12006812	0.35	cps
Silver	107-1	185610	184655	184368	184878	0.35	cps
Silver	109-1	178505	178363	177141	178003	0.42	cps
Sodium	23-2	113920	113051	113790	113587	0.41	cps
Strontium	86-1	122057	123190	121613	122287	0.66	cps
Strontium	88-1	1066950	1067796	1072557	1069101	0.28	cps
Sulfur	34-1	418504	412909	409983	413799	1.05	cps
Terbium	159-1	16268993	16473475	16234782	16325750	0.79	cps
Terbium	159-2	11543442	11369586	11475976	11463001	0.76	cps
Thallium	203-1	2267	2317	2474	2352	4.58	cps
Thallium	205-1	5328	5264	5391	5328	1.19	cps
Tin	118-1	16126	16269	16072	16156	0.63	cps
Titanium	47-1	129656	130097	130019	129924	0.18	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-10DLX2 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:13:46 DataFile Name : 077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	30695	30742	30542	30660	0.34	cps
Vanadium	51-2	97650	96908	95047	96535	1.39	cps
Yttrium	89-1	20209703	20378771	20228858	20272444	0.46	cps
Yttrium	89-2	5862378	5826710	5809788	5832959	0.46	cps
Zinc	66-2	2867941	2816415	2844957	2843104	0.91	cps
Zirconium	90-1	8156	7719	7939	7938	2.75	cps
Zirconium	91-1	1820	1773	1620	1738	6.02	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:16:51 DataFile Name : 078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	472644	468189	468378	469737	0.54	cps
Antimony	121-1	3845616	3827746	3846891	3840085	0.28	cps
Arsenic	75-2	985781	982832	977630	982081	0.42	cps
Barium	135-1	365518	365672	364115	365102	0.24	cps
Barium	137-1	632175	635054	625051	630760	0.82	cps
Beryllium	9-1	200	250	223	224	11.15	cps
Bismuth	209-1	30475698	30515407	30093778	30361628	0.77	cps
Bismuth	209-2	26165970	25847317	25620134	25877807	1.06	cps
Bromine	81-1	18245	19106	18759	18703	2.32	cps
Bromine	81-2	497	470	423	463	8.01	cps
Cadmium	108-1	3714	3704	3594	3670	1.81	cps
Cadmium	106-1	30382	30619	30666	30555	0.50	cps
Cadmium	111-1	44311	44570	43996	44292	0.65	cps
Calcium	43-1	34770	34623	34042	34478	1.12	cps
Calcium	44-1	550083	551503	541021	547536	1.04	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26770	26841	27395	27002	1.27	cps
Cobalt	59-2	18728	18675	18645	18683	0.23	cps
Copper	63-2	40357746	39879229	40438836	40225270	0.75	cps
Dysprosium	156-1	10671	10934	10874	10826	1.28	cps
Dysprosium	156-2	9887	10341	10504	10244	3.12	cps
Erbium	164-1	7029	6992	7015	7012	0.26	cps
Erbium	164-2	4951	5128	5328	5135	3.67	cps
Gadolinium	160-1	9050	9180	8830	9020	1.96	cps
Gadolinium	160-2	7332	7649	7282	7421	2.68	cps
Holmium	165-1	16132140	15987928	15945113	16021727	0.61	cps
Holmium	165-2	11857186	11752282	11465727	11691732	1.73	cps
Indium	115-1	13720421	13517002	13568820	13602081	0.78	cps
Indium	115-2	5493533	5452951	5478819	5475101	0.38	cps
Iron	56-2	451248753	448923473	443562127	447911451	0.88	cps
Iron	57-2	11140028	11114451	10917931	11057470	1.10	cps
Iron	54-2	24764985	24433265	24423407	24540552	0.79	cps
Krypton	83-1	197	213	237	216	9.32	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:16:51 DataFile Name : 078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	520279806	515151539	513519979	516317108	0.68	cps
Lead	207-1	441489700	439559833	435665927	438905153	0.68	cps
Lead	208-1	2058910183	2047448209	2030280450	2045546281	0.70	cps
Lithium	6-1	1338114	1334830	1381195	1351380	1.91	cps
Magnesium	24-2	236499	233336	230636	233490	1.26	cps
Manganese	55-2	5327369	5276806	5219154	5274443	1.03	cps
Molybdenum	94-1	969533	962657	960701	964297	0.48	cps
Molybdenum	95-1	1735892	1743322	1709507	1729573	1.03	cps
Molybdenum	96-1	1893929	1910087	1867999	1890672	1.12	cps
Molybdenum	97-1	1052742	1049279	1046963	1049661	0.28	cps
Molybdenum	98-1	2812712	2728734	2781077	2774174	1.53	cps
Neodymium	150-1	17995	17651	17801	17816	0.97	cps
Neodymium	150-2	11555	11008	11201	11255	2.47	cps
Nickel	60-2	4121	4087	4011	4073	1.39	cps
Phosphorus	31-2	8222	8069	7689	7993	3.44	cps
Potassium	39-2	770139	765031	759091	764754	0.72	cps
Rhodium	103-1	12257691	12325397	12339626	12307572	0.36	cps
Rhodium	103-2	7524278	7616793	7518699	7553257	0.73	cps
Scandium	45-1	7257907	7206615	7235232	7233251	0.36	cps
Scandium	45-2	674679	668419	671026	671375	0.47	cps
Selenium	82-1	3115	3094	3081	3097	0.55	cps
Selenium	77-2	387	383	337	369	7.58	cps
Selenium	78-2	1610	1563	1713	1629	4.71	cps
Silicon	28-1	4930080	4964810	4962170	4952353	0.39	cps
Silver	107-1	1266643	1272432	1262488	1267187	0.39	cps
Silver	109-1	1212221	1209122	1204338	1208560	0.33	cps
Sodium	23-2	92898	92623	91650	92390	0.71	cps
Strontium	86-1	562669	563652	565015	563779	0.21	cps
Strontium	88-1	5097738	5191192	5122917	5137282	0.94	cps
Sulfur	34-1	1156323	1052721	1052135	1087060	5.52	cps
Terbium	159-1	16308782	16495031	16208363	16337392	0.89	cps
Terbium	159-2	11431945	11560774	11436807	11476509	0.64	cps
Thallium	203-1	19103	19804	19474	19461	1.80	cps
Thallium	205-1	45426	45315	45212	45317	0.24	cps
Tin	118-1	401295	398855	397279	399143	0.51	cps
Titanium	47-1	29876	29262	29385	29508	1.10	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DLX2 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 2
Date & Time Acquired : 2025-01-06 18:16:51 DataFile Name : 078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	44892	45157	44729	44926	0.48	cps
Vanadium	51-2	71860	71716	70430	71335	1.10	cps
Yttrium	89-1	20136165	20271521	20329523	20245736	0.49	cps
Yttrium	89-2	5899042	5936716	5775358	5870372	1.44	cps
Zinc	66-2	3666826	3674482	3608229	3649846	0.99	cps
Zirconium	90-1	9196	9340	8826	9121	2.91	cps
Zirconium	91-1	3384	3330	3610	3442	4.32	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03DLX4 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:19:58 DataFile Name : 079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	564651	561139	557655	561149	0.62	cps
Antimony	121-1	60409	60680	60259	60450	0.35	cps
Arsenic	75-2	22464	22644	22030	22379	1.41	cps
Barium	135-1	163881	164137	162811	163610	0.43	cps
Barium	137-1	279906	282448	282098	281484	0.49	cps
Beryllium	9-1	430	420	380	410	6.45	cps
Bismuth	209-1	9804741	9738601	9647943	9730428	0.81	cps
Bismuth	209-2	8609466	8498330	8554960	8554252	0.65	cps
Bromine	81-1	18281	17998	18068	18116	0.82	cps
Bromine	81-2	273	253	310	279	10.31	cps
Cadmium	108-1	780	733	733	749	3.60	cps
Cadmium	106-1	27603	27072	27499	27391	1.03	cps
Cadmium	111-1	10450	11033	10389	10624	3.35	cps
Calcium	43-1	21058	21412	21802	21424	1.74	cps
Calcium	44-1	356114	354889	356181	355728	0.20	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	95298	94359	94064	94574	0.68	cps
Cobalt	59-2	22006	21656	21983	21882	0.90	cps
Copper	63-2	1205374	1201666	1190188	1199076	0.66	cps
Dysprosium	156-1	11618	11632	11862	11704	1.17	cps
Dysprosium	156-2	10998	10664	10871	10844	1.55	cps
Erbium	164-1	8873	8943	8873	8896	0.45	cps
Erbium	164-2	6505	6575	6428	6503	1.13	cps
Gadolinium	160-1	10784	11094	11151	11010	1.79	cps
Gadolinium	160-2	9213	8973	9123	9103	1.33	cps
Holmium	165-1	16102535	15735439	15807192	15881722	1.23	cps
Holmium	165-2	11692615	11553493	11458940	11568349	1.02	cps
Indium	115-1	13234480	13005290	12993648	13077806	1.04	cps
Indium	115-2	5300882	5237042	5281590	5273171	0.62	cps
Iron	56-2	120724355	119212248	118450222	119462275	0.97	cps
Iron	57-2	3012042	2952715	2942472	2969076	1.27	cps
Iron	54-2	6570662	6502279	6494308	6522416	0.64	cps
Krypton	83-1	173	207	227	202	13.32	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03DLX4 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:19:58 DataFile Name : 079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	27067549	27596896	27276166	27313537	0.98	cps
Lead	207-1	23243810	23941620	23306754	23497395	1.64	cps
Lead	208-1	106907825	109591112	107319553	107939496	1.34	cps
Lithium	6-1	1418394	1401423	1367696	1395838	1.85	cps
Magnesium	24-2	542293	540052	539147	540497	0.30	cps
Manganese	55-2	4057234	4007351	3982588	4015724	0.95	cps
Molybdenum	94-1	69464	70535	69882	69960	0.77	cps
Molybdenum	95-1	120017	120017	123078	121037	1.46	cps
Molybdenum	96-1	132336	133254	133311	132967	0.41	cps
Molybdenum	97-1	75701	76623	76107	76143	0.61	cps
Molybdenum	98-1	193599	194672	195226	194499	0.43	cps
Neodymium	150-1	17958	18122	18516	18199	1.57	cps
Neodymium	150-2	11531	11525	11568	11541	0.20	cps
Nickel	60-2	8786	8492	8656	8645	1.70	cps
Phosphorus	31-2	7775	7765	7689	7743	0.61	cps
Potassium	39-2	533043	532780	529445	531756	0.38	cps
Rhodium	103-1	12441264	12207056	12263183	12303835	0.99	cps
Rhodium	103-2	7532700	7441396	7455327	7476474	0.66	cps
Scandium	45-1	7385224	7223670	7163634	7257509	1.58	cps
Scandium	45-2	665297	662035	658736	662023	0.50	cps
Selenium	82-1	562	580	498	547	7.88	cps
Selenium	77-2	47	33	33	38	20.39	cps
Selenium	78-2	657	503	637	599	13.92	cps
Silicon	28-1	5433110	5456334	5408166	5432537	0.44	cps
Silver	107-1	181513	180534	182812	181620	0.63	cps
Silver	109-1	172810	173428	171231	172490	0.66	cps
Sodium	23-2	74080	74753	73410	74081	0.91	cps
Strontium	86-1	41361	41642	41732	41579	0.47	cps
Strontium	88-1	361641	369649	363094	364795	1.17	cps
Sulfur	34-1	345938	345912	342442	344764	0.58	cps
Terbium	159-1	16588597	16316837	16289686	16398373	1.01	cps
Terbium	159-2	11660836	11382749	11407403	11483662	1.34	cps
Thallium	203-1	1563	1540	1700	1601	5.40	cps
Thallium	205-1	4107	4064	3721	3964	5.35	cps
Tin	118-1	44375	44004	44157	44179	0.42	cps
Titanium	47-1	81887	81471	82047	81802	0.36	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-03DLX4 Instrumnet Name : P7
Client Sample ID : MH2D32 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:19:58 DataFile Name : 079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8686	8516	8696	8633	1.17	cps
Vanadium	51-2	34813	34723	34426	34654	0.59	cps
Yttrium	89-1	20544970	19926717	20190874	20220854	1.53	cps
Yttrium	89-2	5923870	5845620	5878012	5882501	0.67	cps
Zinc	66-2	760451	755927	751348	755908	0.60	cps
Zirconium	90-1	2657	2814	2664	2711	3.27	cps
Zirconium	91-1	733	603	550	629	15.00	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:23:05 DataFile Name : 080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	693937	697638	691356	694310	0.45	cps
Antimony	121-1	158930	160380	158702	159337	0.57	cps
Arsenic	75-2	16142	16202	15879	16074	1.07	cps
Barium	135-1	160330	160894	158888	160037	0.65	cps
Barium	137-1	276039	278105	276443	276862	0.40	cps
Beryllium	9-1	407	373	357	379	6.72	cps
Bismuth	209-1	11697967	11819572	11876555	11798031	0.77	cps
Bismuth	209-2	10462213	10388476	10360172	10403620	0.51	cps
Bromine	81-1	17404	17694	17237	17445	1.33	cps
Bromine	81-2	227	313	293	278	16.34	cps
Cadmium	108-1	2594	2944	2840	2793	6.44	cps
Cadmium	106-1	29891	29179	29851	29640	1.35	cps
Cadmium	111-1	40036	39389	39652	39692	0.82	cps
Calcium	43-1	34937	34442	34663	34681	0.71	cps
Calcium	44-1	567244	570924	568077	568748	0.34	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	12202	12425	11945	12191	1.97	cps
Cobalt	59-2	52418	51939	50869	51742	1.53	cps
Copper	63-2	13972671	14057491	13983178	14004447	0.33	cps
Dysprosium	156-1	13613	13854	13877	13781	1.06	cps
Dysprosium	156-2	12823	12556	12409	12596	1.67	cps
Erbium	164-1	11508	11568	10938	11338	3.07	cps
Erbium	164-2	8379	8366	8543	8429	1.17	cps
Gadolinium	160-1	12683	12669	12576	12642	0.46	cps
Gadolinium	160-2	10304	10307	10297	10303	0.05	cps
Holmium	165-1	15769218	15766645	15815446	15783770	0.17	cps
Holmium	165-2	11722124	11654718	11530389	11635744	0.84	cps
Indium	115-1	12941819	12907105	12946772	12931899	0.17	cps
Indium	115-2	5165435	5226449	5154496	5182127	0.75	cps
Iron	56-2	91088805	91930859	91355102	91458255	0.47	cps
Iron	57-2	2289903	2274952	2249712	2271522	0.89	cps
Iron	54-2	4993515	5033647	4972521	4999894	0.62	cps
Krypton	83-1	190	220	237	216	10.97	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:23:05 DataFile Name : 080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	61996151	61934771	61342014	61757645	0.58	cps
Lead	207-1	52255001	52766431	52301839	52441090	0.54	cps
Lead	208-1	241546706	243339293	241873721	242253240	0.39	cps
Lithium	6-1	1366989	1397566	1377938	1380831	1.12	cps
Magnesium	24-2	595922	595151	592333	594468	0.32	cps
Manganese	55-2	24993851	24932718	24888889	24938486	0.21	cps
Molybdenum	94-1	92772	93626	93596	93331	0.52	cps
Molybdenum	95-1	160705	160660	160068	160478	0.22	cps
Molybdenum	96-1	175847	173468	174835	174716	0.68	cps
Molybdenum	97-1	99801	99996	99546	99781	0.23	cps
Molybdenum	98-1	257720	256474	256633	256942	0.26	cps
Neodymium	150-1	20545	20218	20882	20548	1.62	cps
Neodymium	150-2	13346	13410	13386	13381	0.24	cps
Nickel	60-2	5398	5461	5711	5523	3.00	cps
Phosphorus	31-2	5198	5541	5481	5407	3.39	cps
Potassium	39-2	253733	257228	256709	255890	0.74	cps
Rhodium	103-1	12135701	12232566	12131086	12166451	0.47	cps
Rhodium	103-2	7418429	7471626	7468521	7452859	0.40	cps
Scandium	45-1	7125082	7230888	7129328	7161766	0.84	cps
Scandium	45-2	656276	654980	658015	656424	0.23	cps
Selenium	82-1	903	917	876	898	2.34	cps
Selenium	77-2	120	107	87	104	16.06	cps
Selenium	78-2	807	857	750	804	6.63	cps
Silicon	28-1	6732833	6704369	6807666	6748290	0.79	cps
Silver	107-1	666418	671796	669652	669289	0.40	cps
Silver	109-1	634563	643073	640428	639355	0.68	cps
Sodium	23-2	45113	44160	44601	44624	1.07	cps
Strontium	86-1	40502	40586	39479	40189	1.53	cps
Strontium	88-1	347294	349295	349389	348659	0.34	cps
Sulfur	34-1	364246	364733	364469	364483	0.07	cps
Terbium	159-1	16011204	16207011	16028629	16082281	0.67	cps
Terbium	159-2	11423457	11372027	11449144	11414876	0.34	cps
Thallium	203-1	1640	1727	1627	1665	3.26	cps
Thallium	205-1	4157	4167	4101	4142	0.87	cps
Tin	118-1	352905	356769	352059	353911	0.71	cps
Titanium	47-1	25585	25311	24667	25188	1.87	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:23:05 DataFile Name : 080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16767	17235	17321	17108	1.74	cps
Vanadium	51-2	31650	31519	31279	31483	0.60	cps
Yttrium	89-1	19872512	20146044	19797931	19938829	0.92	cps
Yttrium	89-2	5867562	5851375	5787242	5835393	0.73	cps
Zinc	66-2	2201501	2209812	2167838	2193051	1.01	cps
Zirconium	90-1	5024	4924	5148	5032	2.22	cps
Zirconium	91-1	1113	1073	1093	1093	1.83	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:26:12 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	261474	262789	259244	261169	0.69	cps
Antimony	121-1	170736	170113	170009	170286	0.23	cps
Arsenic	75-2	242963	242407	240710	242027	0.48	cps
Barium	135-1	116831	116757	114526	116038	1.13	cps
Barium	137-1	202177	202149	201305	201877	0.25	cps
Beryllium	9-1	223	213	237	224	5.21	cps
Bismuth	209-1	10167453	10323210	10271055	10253906	0.77	cps
Bismuth	209-2	8902895	8883623	8824496	8870338	0.46	cps
Bromine	81-1	16503	16883	16836	16741	1.24	cps
Bromine	81-2	257	253	200	237	13.44	cps
Cadmium	108-1	860	753	920	844	10.00	cps
Cadmium	106-1	26998	26768	26872	26879	0.43	cps
Cadmium	111-1	12859	12380	12003	12414	3.45	cps
Calcium	43-1	1586055	1536213	1582076	1568115	1.77	cps
Calcium	44-1	25920812	25512043	25683016	25705290	0.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	12158	12102	12065	12108	0.39	cps
Cobalt	59-2	17540	18318	18131	17996	2.26	cps
Copper	63-2	3353301	3287055	3341679	3327345	1.06	cps
Dysprosium	156-1	5998	5908	5698	5868	2.62	cps
Dysprosium	156-2	5144	5038	5298	5160	2.53	cps
Erbium	164-1	5048	5298	5004	5117	3.10	cps
Erbium	164-2	3597	3560	3614	3590	0.76	cps
Gadolinium	160-1	5718	5568	5905	5730	2.94	cps
Gadolinium	160-2	5178	5108	5134	5140	0.69	cps
Holmium	165-1	15574776	15788300	15616524	15659866	0.72	cps
Holmium	165-2	11547069	11476993	11370869	11464977	0.77	cps
Indium	115-1	12810875	12773267	12771707	12785283	0.17	cps
Indium	115-2	5051216	5022052	5040702	5037990	0.29	cps
Iron	56-2	43389381	43349416	43165794	43301530	0.28	cps
Iron	57-2	1133938	1135520	1130496	1133318	0.23	cps
Iron	54-2	2386920	2374765	2373365	2378350	0.31	cps
Krypton	83-1	237	210	230	226	6.15	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:26:12 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	29580787	29773990	30079074	29811283	0.84	cps
Lead	207-1	25054173	25056523	25094050	25068249	0.09	cps
Lead	208-1	115926499	116529037	116763106	116406214	0.37	cps
Lithium	6-1	1445886	1444783	1475221	1455297	1.19	cps
Magnesium	24-2	243381	240880	240369	241543	0.67	cps
Manganese	55-2	2666470	2657695	2704729	2676298	0.93	cps
Molybdenum	94-1	26110	25676	25459	25748	1.29	cps
Molybdenum	95-1	43474	43030	42996	43167	0.62	cps
Molybdenum	96-1	46811	46614	46597	46674	0.26	cps
Molybdenum	97-1	26908	26781	26591	26760	0.60	cps
Molybdenum	98-1	68513	68232	69046	68597	0.60	cps
Neodymium	150-1	7562	7535	7152	7416	3.10	cps
Neodymium	150-2	4464	4828	4874	4722	4.76	cps
Nickel	60-2	5394	5348	5391	5378	0.48	cps
Phosphorus	31-2	2640	2700	2607	2649	1.79	cps
Potassium	39-2	214111	213512	214002	213875	0.15	cps
Rhodium	103-1	11818698	11680198	11716481	11738459	0.61	cps
Rhodium	103-2	7097514	7101181	7070723	7089806	0.23	cps
Scandium	45-1	7137597	7111741	6994780	7081372	1.07	cps
Scandium	45-2	616091	611531	611652	613091	0.42	cps
Selenium	82-1	713	723	671	702	3.92	cps
Selenium	77-2	53	27	37	39	34.63	cps
Selenium	78-2	597	550	613	587	5.60	cps
Silicon	28-1	4782895	4691211	4682585	4718897	1.18	cps
Silver	107-1	333459	332332	329384	331725	0.63	cps
Silver	109-1	317992	314545	315450	315996	0.57	cps
Sodium	23-2	55874	55904	55904	55894	0.03	cps
Strontium	86-1	81936	82268	81742	81982	0.32	cps
Strontium	88-1	726891	719725	716101	720905	0.76	cps
Sulfur	34-1	338493	337470	335759	337241	0.41	cps
Terbium	159-1	16135001	16236509	15874902	16082137	1.16	cps
Terbium	159-2	11478943	11212047	11333778	11341589	1.18	cps
Thallium	203-1	4187	4391	4574	4384	4.41	cps
Thallium	205-1	10644	10601	10871	10705	1.36	cps
Tin	118-1	174783	175249	173392	174475	0.55	cps
Titanium	47-1	9226	9336	8926	9163	2.32	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-05DL2X4 Instrumnet Name : P7
Client Sample ID : MH2D38 Dilution Factor : 4
Date & Time Acquired : 2025-01-06 18:26:12 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6475	6545	6885	6635	3.31	cps
Vanadium	51-2	13459	13229	12919	13203	2.05	cps
Yttrium	89-1	19788101	19460186	19146454	19464914	1.65	cps
Yttrium	89-2	5472108	5571404	5503490	5515667	0.92	cps
Zinc	66-2	675630	675675	673093	674799	0.22	cps
Zirconium	90-1	3694	3737	3757	3729	0.87	cps
Zirconium	91-1	1167	1183	1127	1159	2.51	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:29:17 DataFile Name : 082CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10299593	10276456	10254762	10276937	0.22	cps
Antimony	121-1	5415307	5526989	5518774	5487023	1.13	cps
Arsenic	75-2	260320	259477	259731	259843	0.17	cps
Barium	135-1	6931153	6967432	7003158	6967248	0.52	cps
Barium	137-1	12117993	12137984	12219736	12158571	0.44	cps
Beryllium	9-1	581966	604317	598214	594833	1.94	cps
Bismuth	209-1	8964269	8810989	8848992	8874750	0.90	cps
Bismuth	209-2	7389654	7281703	7267030	7312796	0.92	cps
Bromine	81-1	13416	13073	13043	13177	1.58	cps
Bromine	81-2	120	110	107	112	6.18	cps
Cadmium	108-1	103932	103361	104829	104041	0.71	cps
Cadmium	106-1	166212	168417	169000	167876	0.88	cps
Cadmium	111-1	1255043	1278440	1269634	1267706	0.93	cps
Calcium	43-1	6881651	6838776	6793713	6838047	0.64	cps
Calcium	44-1	111125448	111151712	111003012	111093391	0.07	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1941374	1974244	1979562	1965060	1.05	cps
Cobalt	59-2	2979457	3023411	3004109	3002326	0.73	cps
Copper	63-2	21312950	21217082	21449658	21326563	0.55	cps
Dysprosium	156-1	460	450	390	433	8.74	cps
Dysprosium	156-2	553	647	657	619	9.21	cps
Erbium	164-1	363	373	350	362	3.23	cps
Erbium	164-2	217	240	253	237	7.84	cps
Gadolinium	160-1	297	350	330	326	8.28	cps
Gadolinium	160-2	737	827	843	802	7.15	cps
Holmium	165-1	15788243	15316968	15330255	15478489	1.73	cps
Holmium	165-2	10770633	10726921	10537130	10678228	1.16	cps
Indium	115-1	11609825	11121717	11004363	11245302	2.86	cps
Indium	115-2	4240214	4192409	4208594	4213739	0.58	cps
Iron	56-2	460059700	454269847	462168100	458832549	0.89	cps
Iron	57-2	11577983	11510160	11583794	11557312	0.35	cps
Iron	54-2	25058290	24914330	24973493	24982038	0.29	cps
Krypton	83-1	183	170	170	174	4.42	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:29:17 DataFile Name : 082CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21101273	22039901	21714596	21618590	2.20	cps
Lead	207-1	18689604	19401433	19295716	19128918	2.01	cps
Lead	208-1	84855030	88168499	87809795	86944441	2.09	cps
Lithium	6-1	1571808	1533238	1535477	1546841	1.40	cps
Magnesium	24-2	82740359	81628052	82051544	82139985	0.68	cps
Manganese	55-2	15787004	15468781	15757474	15671086	1.12	cps
Molybdenum	94-1	18805721	18904236	18761891	18823949	0.39	cps
Molybdenum	95-1	26649337	26874978	26572729	26699015	0.59	cps
Molybdenum	96-1	29488934	29751082	29444687	29561568	0.56	cps
Molybdenum	97-1	16732050	16761559	16718199	16737269	0.13	cps
Molybdenum	98-1	42969454	43181736	43006021	43052404	0.26	cps
Neodymium	150-1	580	523	660	588	11.68	cps
Neodymium	150-2	217	207	160	194	15.56	cps
Nickel	60-2	746662	744238	744071	744991	0.19	cps
Phosphorus	31-2	98199	98101	98299	98200	0.10	cps
Potassium	39-2	57768419	57759949	58270449	57932939	0.50	cps
Rhodium	103-1	10590039	9763968	9777793	10043934	4.71	cps
Rhodium	103-2	5863732	5828817	5732846	5808465	1.17	cps
Scandium	45-1	6541077	6210556	6085243	6278959	3.75	cps
Scandium	45-2	507614	502443	505226	505094	0.51	cps
Selenium	82-1	78621	79713	79183	79172	0.69	cps
Selenium	77-2	8643	8946	8159	8583	4.63	cps
Selenium	78-2	29533	29974	29513	29673	0.88	cps
Silicon	28-1	33658845	33429430	33422217	33503497	0.40	cps
Silver	107-1	6618647	6678823	6704268	6667246	0.66	cps
Silver	109-1	6364419	6427048	6386706	6392725	0.50	cps
Sodium	23-2	140431811	140035955	139619901	140029222	0.29	cps
Strontium	86-1	1665108	1686681	1681782	1677857	0.67	cps
Strontium	88-1	14549444	14799324	14732459	14693742	0.88	cps
Sulfur	34-1	538223	536211	537196	537210	0.19	cps
Terbium	159-1	15964074	15197897	15308231	15490067	2.67	cps
Terbium	159-2	10425629	10525579	10607447	10519551	0.87	cps
Thallium	203-1	5436094	5527590	5533691	5499125	0.99	cps
Thallium	205-1	13147733	13339639	13312334	13266568	0.78	cps
Tin	118-1	4395419	4349550	4405298	4383423	0.68	cps
Titanium	47-1	6436848	6553394	6506484	6498909	0.90	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P7
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:29:17 DataFile Name : 082CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16788685	17737688	17594125	17373499	2.94	cps
Vanadium	51-2	1768285	1771991	1763870	1768049	0.23	cps
Yttrium	89-1	18120097	17313735	17237718	17557183	2.79	cps
Yttrium	89-2	4734476	4654661	4663529	4684222	0.93	cps
Zinc	66-2	3756855	3706894	3767349	3743699	0.86	cps
Zirconium	90-1	9188240	9355298	9307359	9283633	0.93	cps
Zirconium	91-1	2040117	2062970	2046690	2049926	0.57	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:32:00 DataFile Name : 083CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	550	597	623	590	6.29	cps
Antimony	121-1	3110	2417	2014	2514	22.07	cps
Arsenic	75-2	33	27	40	33	20.00	cps
Barium	135-1	1740	1060	657	1152	47.52	cps
Barium	137-1	2887	1830	1147	1955	44.86	cps
Beryllium	9-1	260	180	160	200	26.46	cps
Bismuth	209-1	9637642	9784220	9779434	9733765	0.86	cps
Bismuth	209-2	8152289	8236640	8047626	8145518	1.16	cps
Bromine	81-1	13356	13046	12856	13086	1.93	cps
Bromine	81-2	127	130	150	136	9.31	cps
Cadmium	108-1	63	67	97	76	24.30	cps
Cadmium	106-1	21616	22447	22294	22119	2.00	cps
Cadmium	111-1	2467	2408	2388	2421	1.70	cps
Calcium	43-1	2020	1363	827	1403	42.59	cps
Calcium	44-1	35666	24380	18358	26135	33.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2830	2900	2907	2879	1.48	cps
Cobalt	59-2	320	340	277	312	10.37	cps
Copper	63-2	4948	5068	4724	4913	3.55	cps
Dysprosium	156-1	7	13	7	9	43.25	cps
Dysprosium	156-2	3	13	7	8	65.47	cps
Erbium	164-1	67	103	70	80	25.34	cps
Erbium	164-2	40	30	30	33	17.32	cps
Gadolinium	160-1	93	107	127	109	15.41	cps
Gadolinium	160-2	647	627	637	637	1.57	cps
Holmium	165-1	15147002	15308370	15213265	15222879	0.53	cps
Holmium	165-2	10920811	10985740	10914082	10940211	0.36	cps
Indium	115-1	11509294	11781901	11651659	11647618	1.17	cps
Indium	115-2	4429082	4556028	4532864	4505991	1.50	cps
Iron	56-2	53558	51906	49571	51679	3.88	cps
Iron	57-2	2150	2010	2094	2085	3.38	cps
Iron	54-2	4124	4027	4004	4052	1.57	cps
Krypton	83-1	190	207	190	196	4.92	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:32:00 DataFile Name : 083CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11979	9213	7856	9683	21.70	cps
Lead	207-1	10104	7732	6832	8223	20.56	cps
Lead	208-1	46882	36610	31311	38268	20.69	cps
Lithium	6-1	1632546	1601829	1609168	1614514	0.99	cps
Magnesium	24-2	4988	4741	4374	4701	6.57	cps
Manganese	55-2	1613	1723	1453	1597	8.50	cps
Molybdenum	94-1	5208	3340	2317	3622	40.47	cps
Molybdenum	95-1	7349	4491	3307	5049	41.15	cps
Molybdenum	96-1	8059	5028	3594	5560	41.00	cps
Molybdenum	97-1	4331	2877	2117	3108	36.19	cps
Molybdenum	98-1	11685	7285	4858	7943	43.57	cps
Neodymium	150-1	10	3	7	7	50.03	cps
Neodymium	150-2	10	3	3	6	69.34	cps
Nickel	60-2	860	767	777	801	6.40	cps
Phosphorus	31-2	217	207	187	203	7.51	cps
Potassium	39-2	52380	52477	51731	52196	0.78	cps
Rhodium	103-1	10564406	10836354	10818229	10739663	1.42	cps
Rhodium	103-2	6406873	6361975	6379327	6382725	0.35	cps
Scandium	45-1	6062793	6130718	6146260	6113257	0.73	cps
Scandium	45-2	502844	505355	500824	503008	0.45	cps
Selenium	82-1	340	307	284	310	9.00	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	383	357	370	370	3.60	cps
Silicon	28-1	776201	767057	775636	772964	0.66	cps
Silver	107-1	2420	1617	1240	1759	34.27	cps
Silver	109-1	2127	1547	1067	1580	33.60	cps
Sodium	23-2	37325	37322	35771	36806	2.43	cps
Strontium	86-1	653	567	407	542	23.08	cps
Strontium	88-1	3580	2200	1640	2474	40.37	cps
Sulfur	34-1	159182	160462	159647	159764	0.41	cps
Terbium	159-1	15181204	15444927	15469938	15365357	1.04	cps
Terbium	159-2	10650615	10723545	10757137	10710432	0.51	cps
Thallium	203-1	2000	1463	1250	1571	24.60	cps
Thallium	205-1	4664	3724	2670	3686	27.06	cps
Tin	118-1	2074	1730	1460	1755	17.52	cps
Titanium	47-1	1663	977	540	1060	53.42	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P7
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 18:32:00 DataFile Name : 083CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4234	2340	1463	2679	52.85	cps
Vanadium	51-2	103	143	73	107	32.93	cps
Yttrium	89-1	17289901	17695625	17332401	17439309	1.28	cps
Yttrium	89-2	4783952	4826517	4786903	4799124	0.50	cps
Zinc	66-2	603	537	510	550	8.74	cps
Zirconium	90-1	3540	2517	1963	2674	29.93	cps
Zirconium	91-1	653	600	377	543	27.01	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:35:16 DataFile Name : 084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	480210	487274	483344	483609	0.73	cps
Antimony	121-1	13069	13230	12749	13016	1.88	cps
Arsenic	75-2	4487	4978	4767	4744	5.18	cps
Barium	135-1	36888	37977	37315	37393	1.47	cps
Barium	137-1	64525	64438	65657	64874	1.05	cps
Beryllium	9-1	323	343	497	388	24.45	cps
Bismuth	209-1	10027554	9997044	10013382	10012660	0.15	cps
Bismuth	209-2	8492274	8377662	8278472	8382803	1.28	cps
Bromine	81-1	13733	13496	14100	13777	2.21	cps
Bromine	81-2	150	123	110	128	15.94	cps
Cadmium	108-1	987	920	1003	970	4.55	cps
Cadmium	106-1	25108	24377	24594	24693	1.52	cps
Cadmium	111-1	13665	14142	13936	13914	1.72	cps
Calcium	43-1	21806	21572	21846	21741	0.68	cps
Calcium	44-1	359229	358299	365132	360887	1.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9590	9730	10143	9821	2.93	cps
Cobalt	59-2	29663	30117	29322	29701	1.34	cps
Copper	63-2	1376489	1385652	1386649	1382930	0.40	cps
Dysprosium	156-1	11902	11865	12519	12095	3.04	cps
Dysprosium	156-2	10751	10974	10974	10900	1.18	cps
Erbium	164-1	8713	8793	8900	8802	1.06	cps
Erbium	164-2	6482	6425	6425	6444	0.51	cps
Gadolinium	160-1	10614	10838	10611	10687	1.22	cps
Gadolinium	160-2	9053	8786	8549	8796	2.86	cps
Holmium	165-1	15669347	15466460	15823148	15652985	1.14	cps
Holmium	165-2	11287965	11418984	11259637	11322195	0.75	cps
Indium	115-1	12088324	12048786	12008458	12048523	0.33	cps
Indium	115-2	4710801	4683658	4684586	4693015	0.33	cps
Iron	56-2	35545944	35313631	35472325	35443967	0.33	cps
Iron	57-2	888151	887526	890263	888647	0.16	cps
Iron	54-2	1940171	1918329	1946366	1934955	0.76	cps
Krypton	83-1	217	177	210	201	10.66	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:35:16 DataFile Name : 084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12141501	12049589	12097927	12096339	0.38	cps
Lead	207-1	10137225	10132607	10139198	10136343	0.03	cps
Lead	208-1	47233123	47305271	47552462	47363619	0.35	cps
Lithium	6-1	1614225	1602846	1582533	1599868	1.00	cps
Magnesium	24-2	422922	424611	426052	424528	0.37	cps
Manganese	55-2	21304818	21087056	21262952	21218275	0.54	cps
Molybdenum	94-1	137041	139570	142677	139763	2.02	cps
Molybdenum	95-1	240153	242988	244709	242617	0.95	cps
Molybdenum	96-1	260522	263038	265285	262948	0.91	cps
Molybdenum	97-1	152304	152421	153977	152901	0.61	cps
Molybdenum	98-1	387506	389435	393875	390272	0.84	cps
Neodymium	150-1	19487	19697	19544	19576	0.56	cps
Neodymium	150-2	12139	12472	12312	12308	1.36	cps
Nickel	60-2	3550	3537	3690	3593	2.36	cps
Phosphorus	31-2	3500	3824	3567	3630	4.70	cps
Potassium	39-2	164935	166274	167633	166281	0.81	cps
Rhodium	103-1	11116038	10965519	10931359	11004306	0.89	cps
Rhodium	103-2	6697383	6649046	6678943	6675124	0.37	cps
Scandium	45-1	6358180	6312116	6361053	6343783	0.43	cps
Scandium	45-2	540008	549036	544113	544386	0.83	cps
Selenium	82-1	401	409	375	395	4.41	cps
Selenium	77-2	33	50	17	33	50.00	cps
Selenium	78-2	457	440	400	432	6.74	cps
Silicon	28-1	4381188	4557224	4422171	4453528	2.07	cps
Silver	107-1	100005	102351	102985	101780	1.54	cps
Silver	109-1	96971	97075	99633	97893	1.54	cps
Sodium	23-2	40399	40700	40329	40476	0.49	cps
Strontium	86-1	19777	19196	19246	19406	1.66	cps
Strontium	88-1	164327	166669	166525	165840	0.79	cps
Sulfur	34-1	179409	179065	181466	179980	0.72	cps
Terbium	159-1	15853703	15657915	15744082	15751900	0.62	cps
Terbium	159-2	11037045	11177554	11015752	11076784	0.79	cps
Thallium	203-1	2047	1977	1913	1979	3.37	cps
Thallium	205-1	4631	4741	4567	4646	1.89	cps
Tin	118-1	2467	2294	2300	2354	4.17	cps
Titanium	47-1	4661	4647	4477	4595	2.23	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-01DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D26 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:35:16 DataFile Name : 084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	12406	12469	11925	12267	2.42	cps
Vanadium	51-2	19065	19272	19846	19395	2.09	cps
Yttrium	89-1	18254262	18276677	18462863	18331267	0.62	cps
Yttrium	89-2	5050311	5049610	5122170	5074030	0.82	cps
Zinc	66-2	1304724	1308140	1314611	1309158	0.38	cps
Zirconium	90-1	2200	7956	2177	4111	81.00	cps
Zirconium	91-1	403	403	493	433	11.99	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:38:31 DataFile Name : 085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	189267	191920	191259	190815	0.72	cps
Antimony	121-1	186570	190596	191943	189703	1.47	cps
Arsenic	75-2	36849	37063	36625	36846	0.59	cps
Barium	135-1	24929	25249	24862	25013	0.83	cps
Barium	137-1	42891	43222	42644	42919	0.68	cps
Beryllium	9-1	350	277	260	296	16.20	cps
Bismuth	209-1	10425397	10421525	10212677	10353200	1.18	cps
Bismuth	209-2	8965809	8860667	8790468	8872315	0.99	cps
Bromine	81-1	15575	15722	16159	15819	1.92	cps
Bromine	81-2	167	173	137	159	12.29	cps
Cadmium	108-1	2670	2707	2580	2652	2.46	cps
Cadmium	106-1	27837	28538	28525	28300	1.42	cps
Cadmium	111-1	35018	34428	35835	35093	2.01	cps
Calcium	43-1	99553	103476	103792	102274	2.31	cps
Calcium	44-1	1612261	1653874	1649867	1638667	1.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8929	8663	8616	8736	1.94	cps
Cobalt	59-2	11404	11791	11588	11595	1.67	cps
Copper	63-2	1746631	1767355	1772035	1762007	0.77	cps
Dysprosium	156-1	4547	4918	4724	4730	3.91	cps
Dysprosium	156-2	4044	4127	4354	4175	3.84	cps
Erbium	164-1	3814	3841	4007	3887	2.70	cps
Erbium	164-2	2847	2697	2724	2756	2.90	cps
Gadolinium	160-1	4464	4531	4431	4475	1.14	cps
Gadolinium	160-2	4141	4004	4007	4051	1.93	cps
Holmium	165-1	15793199	15953576	15681605	15809460	0.86	cps
Holmium	165-2	11522954	11551968	11638343	11571088	0.52	cps
Indium	115-1	12503835	12646136	12786462	12645478	1.12	cps
Indium	115-2	5084947	5170594	5159388	5138310	0.91	cps
Iron	56-2	116005885	115162688	115299268	115489281	0.39	cps
Iron	57-2	2878590	2877870	2890091	2882184	0.24	cps
Iron	54-2	6322279	6285646	6271194	6293040	0.42	cps
Krypton	83-1	200	180	187	189	5.39	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:38:31 DataFile Name : 085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	72868799	71656039	71903032	72142623	0.89	cps
Lead	207-1	62316291	62684436	62609054	62536594	0.31	cps
Lead	208-1	288033217	285585809	285991054	286536694	0.46	cps
Lithium	6-1	1543834	1504074	1503742	1517217	1.52	cps
Magnesium	24-2	109741	110167	109862	109923	0.20	cps
Manganese	55-2	31030395	30757271	30633690	30807119	0.66	cps
Molybdenum	94-1	43605	44868	45163	44545	1.86	cps
Molybdenum	95-1	76746	77406	76870	77008	0.46	cps
Molybdenum	96-1	81730	83493	85562	83595	2.29	cps
Molybdenum	97-1	46016	48403	48601	47673	3.02	cps
Molybdenum	98-1	121218	122512	124169	122633	1.21	cps
Neodymium	150-1	6095	6115	6091	6100	0.21	cps
Neodymium	150-2	4157	4051	3914	4041	3.02	cps
Nickel	60-2	3220	3310	3254	3261	1.40	cps
Phosphorus	31-2	3100	2930	3127	3053	3.50	cps
Potassium	39-2	214759	215290	214259	214769	0.24	cps
Rhodium	103-1	11468149	11740359	11912195	11706901	1.91	cps
Rhodium	103-2	7222329	7222961	7218276	7221189	0.04	cps
Scandium	45-1	6733461	6956171	6968447	6886026	1.92	cps
Scandium	45-2	623946	622445	623374	623255	0.12	cps
Selenium	82-1	769	750	827	782	5.14	cps
Selenium	77-2	83	67	53	68	22.18	cps
Selenium	78-2	730	617	720	689	9.11	cps
Silicon	28-1	5556751	5806286	5812552	5725196	2.55	cps
Silver	107-1	381156	390857	395149	389054	1.84	cps
Silver	109-1	365771	374218	376050	372013	1.47	cps
Sodium	23-2	56259	55911	55784	55985	0.44	cps
Strontium	86-1	30742	31871	31474	31362	1.83	cps
Strontium	88-1	270809	270957	275350	272372	0.95	cps
Sulfur	34-1	726645	740322	748862	738610	1.52	cps
Terbium	159-1	15934388	16016969	16178639	16043332	0.77	cps
Terbium	159-2	11568265	11412341	11457218	11479275	0.70	cps
Thallium	203-1	3094	3354	3100	3183	4.66	cps
Thallium	205-1	7742	7776	7742	7753	0.25	cps
Tin	118-1	11395	11588	11385	11456	1.00	cps
Titanium	47-1	19383	19613	19706	19567	0.85	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:38:31 DataFile Name : 085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9053	8906	9180	9047	1.51	cps
Vanadium	51-2	12719	12719	12886	12774	0.75	cps
Yttrium	89-1	18925155	19158632	19413660	19165816	1.27	cps
Yttrium	89-2	5586744	5529948	5644649	5587114	1.03	cps
Zinc	66-2	2908371	2925437	2953428	2929078	0.78	cps
Zirconium	90-1	4464	4407	4767	4546	4.26	cps
Zirconium	91-1	1053	1070	927	1017	7.71	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:41:34 DataFile Name : 086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	62868	62296	63165	62776	0.70	cps
Antimony	121-1	1151108	1154591	1165423	1157041	0.65	cps
Arsenic	75-2	380934	379574	379134	379881	0.25	cps
Barium	135-1	138058	138092	138812	138320	0.31	cps
Barium	137-1	236597	239962	242576	239711	1.25	cps
Beryllium	9-1	60	107	73	80	30.05	cps
Bismuth	209-1	14471624	14317053	14475349	14421342	0.63	cps
Bismuth	209-2	12544391	12468344	12401683	12471473	0.57	cps
Bromine	81-1	17047	17741	17457	17415	2.00	cps
Bromine	81-2	183	197	200	193	4.56	cps
Cadmium	108-1	567	503	563	544	6.55	cps
Cadmium	106-1	26053	26718	26478	26416	1.27	cps
Cadmium	111-1	7873	7977	8011	7954	0.90	cps
Calcium	43-1	2067	2114	2023	2068	2.18	cps
Calcium	44-1	34549	36833	34917	35433	3.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5141	5191	5234	5189	0.90	cps
Cobalt	59-2	2964	3390	3404	3253	7.70	cps
Copper	63-2	9083950	9078357	8978605	9046971	0.66	cps
Dysprosium	156-1	1297	1287	1310	1298	0.90	cps
Dysprosium	156-2	1177	1330	1273	1260	6.15	cps
Erbium	164-1	687	757	853	766	10.93	cps
Erbium	164-2	593	577	487	552	10.39	cps
Gadolinium	160-1	1160	1227	1183	1190	2.84	cps
Gadolinium	160-2	1610	1513	1813	1646	9.31	cps
Holmium	165-1	15762299	15861960	15956207	15860155	0.61	cps
Holmium	165-2	11724831	11692100	11587463	11668132	0.61	cps
Indium	115-1	13014039	12984620	13125387	13041349	0.57	cps
Indium	115-2	5259294	5266797	5312875	5279655	0.55	cps
Iron	56-2	131705251	130514665	131298448	131172788	0.46	cps
Iron	57-2	3260974	3268902	3253737	3261204	0.23	cps
Iron	54-2	7198639	7153320	7164958	7172306	0.33	cps
Krypton	83-1	150	230	180	187	21.65	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:41:34 DataFile Name : 086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	107577345	109429108	108668425	108558293	0.86	cps
Lead	207-1	91953862	91445282	91862045	91753730	0.30	cps
Lead	208-1	423759870	426468880	423823954	424684235	0.36	cps
Lithium	6-1	1424158	1419391	1410524	1418024	0.49	cps
Magnesium	24-2	20060	20267	19980	20102	0.74	cps
Manganese	55-2	1020172	1021049	1017672	1019631	0.17	cps
Molybdenum	94-1	147262	147982	147668	147637	0.24	cps
Molybdenum	95-1	254805	254936	257542	255761	0.60	cps
Molybdenum	96-1	278058	279009	279664	278910	0.29	cps
Molybdenum	97-1	162009	161272	162168	161816	0.30	cps
Molybdenum	98-1	415578	411231	416740	414516	0.70	cps
Neodymium	150-1	2567	2707	2617	2630	2.70	cps
Neodymium	150-2	1803	1673	1627	1701	5.38	cps
Nickel	60-2	1333	1153	1350	1279	8.53	cps
Phosphorus	31-2	2280	2417	2437	2378	3.59	cps
Potassium	39-2	547588	547881	547362	547610	0.05	cps
Rhodium	103-1	12086592	12281517	12249884	12205998	0.86	cps
Rhodium	103-2	7549385	7496189	7508418	7517997	0.37	cps
Scandium	45-1	7264802	7094952	7140624	7166792	1.23	cps
Scandium	45-2	655623	654422	656407	655484	0.15	cps
Selenium	82-1	1001	994	1045	1013	2.74	cps
Selenium	77-2	83	70	80	78	8.92	cps
Selenium	78-2	770	733	847	783	7.38	cps
Silicon	28-1	2484898	2549038	2562584	2532173	1.64	cps
Silver	107-1	469060	477985	476835	474627	1.02	cps
Silver	109-1	452553	453602	461542	455899	1.08	cps
Sodium	23-2	48222	48513	47841	48192	0.70	cps
Strontium	86-1	34360	35630	35092	35027	1.82	cps
Strontium	88-1	301229	307174	305958	304787	1.03	cps
Sulfur	34-1	509296	512000	516981	512759	0.76	cps
Terbium	159-1	16195575	16001402	16360156	16185711	1.11	cps
Terbium	159-2	11550821	11516234	11445314	11504123	0.47	cps
Thallium	203-1	9477	10361	9930	9923	4.46	cps
Thallium	205-1	23464	23658	23744	23622	0.61	cps
Tin	118-1	133232	134248	136661	134714	1.31	cps
Titanium	47-1	2104	2120	2147	2124	1.03	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:41:34 DataFile Name : 086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3937	4208	3947	4031	3.80	cps
Vanadium	51-2	21332	20834	21125	21097	1.18	cps
Yttrium	89-1	19502979	19610980	20131666	19748542	1.70	cps
Yttrium	89-2	5725246	5780738	5817695	5774560	0.81	cps
Zinc	66-2	582632	579747	583831	582070	0.36	cps
Zirconium	90-1	1470	1353	1543	1456	6.58	cps
Zirconium	91-1	790	820	760	790	3.80	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:44:45 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	135290	134610	135491	135130	0.34	cps
Antimony	121-1	549033	546326	551600	548986	0.48	cps
Arsenic	75-2	193456	192930	193210	193199	0.14	cps
Barium	135-1	72440	74031	74557	73676	1.50	cps
Barium	137-1	126556	126638	125097	126097	0.69	cps
Beryllium	9-1	87	107	113	102	13.57	cps
Bismuth	209-1	12497751	12525452	12431924	12485042	0.38	cps
Bismuth	209-2	10790314	10954167	10857017	10867166	0.76	cps
Bromine	81-1	18085	17550	18205	17947	1.94	cps
Bromine	81-2	173	193	163	177	8.65	cps
Cadmium	108-1	4344	4154	4647	4382	5.68	cps
Cadmium	106-1	32192	31464	32159	31938	1.29	cps
Cadmium	111-1	58927	59017	58574	58839	0.40	cps
Calcium	43-1	6428	6628	6591	6549	1.63	cps
Calcium	44-1	110512	110673	112550	111245	1.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6925	7042	7075	7014	1.12	cps
Cobalt	59-2	18108	18625	18425	18386	1.42	cps
Copper	63-2	8173424	8144552	8116936	8144971	0.35	cps
Dysprosium	156-1	2360	2430	2507	2432	3.02	cps
Dysprosium	156-2	2190	2124	2167	2160	1.57	cps
Erbium	164-1	1700	1910	1900	1837	6.45	cps
Erbium	164-2	1107	1457	1203	1256	14.40	cps
Gadolinium	160-1	2247	2117	2290	2218	4.07	cps
Gadolinium	160-2	2147	2287	2360	2265	4.79	cps
Holmium	165-1	15936877	15790760	15917395	15881677	0.50	cps
Holmium	165-2	11666556	11653688	11557039	11625761	0.51	cps
Indium	115-1	12900847	13134773	13163863	13066494	1.10	cps
Indium	115-2	5307101	5192548	5188180	5229277	1.29	cps
Iron	56-2	144263191	143889785	142811088	143654688	0.52	cps
Iron	57-2	3585166	3579814	3546540	3570507	0.59	cps
Iron	54-2	7918625	7877991	7854533	7883716	0.41	cps
Krypton	83-1	210	183	220	204	9.27	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:44:45 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	106866285	106363032	105001155	106076824	0.91	cps
Lead	207-1	90498469	91613205	89970472	90694049	0.92	cps
Lead	208-1	419016977	422366174	414558617	418647256	0.94	cps
Lithium	6-1	1382031	1411227	1383477	1392245	1.18	cps
Magnesium	24-2	73759	73973	73947	73893	0.16	cps
Manganese	55-2	3088838	3089178	3075187	3084401	0.26	cps
Molybdenum	94-1	136613	136156	137767	136845	0.61	cps
Molybdenum	95-1	235285	237581	235342	236069	0.55	cps
Molybdenum	96-1	255647	259122	256787	257185	0.69	cps
Molybdenum	97-1	148515	150189	149381	149361	0.56	cps
Molybdenum	98-1	377896	380436	379651	379327	0.34	cps
Neodymium	150-1	3657	3601	3861	3706	3.69	cps
Neodymium	150-2	2364	2274	2230	2289	2.97	cps
Nickel	60-2	2250	2234	2310	2265	1.78	cps
Phosphorus	31-2	2450	2537	2407	2465	2.69	cps
Potassium	39-2	533153	532031	532692	532625	0.11	cps
Rhodium	103-1	12040835	12292325	12148298	12160486	1.04	cps
Rhodium	103-2	7518488	7444326	7458344	7473720	0.53	cps
Scandium	45-1	7167923	7161939	7203322	7177728	0.31	cps
Scandium	45-2	659222	651179	654585	654995	0.62	cps
Selenium	82-1	979	1025	912	972	5.85	cps
Selenium	77-2	47	67	73	62	22.30	cps
Selenium	78-2	747	647	717	703	7.30	cps
Silicon	28-1	2733740	2703316	2745285	2727447	0.79	cps
Silver	107-1	553113	554933	554617	554221	0.18	cps
Silver	109-1	533686	535049	536844	535193	0.30	cps
Sodium	23-2	50994	50492	50479	50655	0.58	cps
Strontium	86-1	26998	26564	27426	26996	1.60	cps
Strontium	88-1	235469	235377	239032	236626	0.88	cps
Sulfur	34-1	698866	700258	695056	698060	0.39	cps
Terbium	159-1	16023296	16221074	16021682	16088684	0.71	cps
Terbium	159-2	11388682	11530618	11641608	11520303	1.10	cps
Thallium	203-1	7475	7539	7666	7560	1.28	cps
Thallium	205-1	17728	18109	17712	17850	1.26	cps
Tin	118-1	136842	137417	137491	137250	0.26	cps
Titanium	47-1	3034	3117	2997	3049	2.02	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:44:45 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6692	6525	6718	6645	1.58	cps
Vanadium	51-2	20804	21442	21228	21158	1.53	cps
Yttrium	89-1	20014813	19806685	19924173	19915224	0.52	cps
Yttrium	89-2	5856118	5764469	5790177	5803588	0.81	cps
Zinc	66-2	4108762	4091163	4119825	4106583	0.35	cps
Zirconium	90-1	1730	1810	1893	1811	4.51	cps
Zirconium	91-1	657	593	610	620	5.30	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:47:52 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	364660	360426	360792	361960	0.65	cps
Antimony	121-1	191243	189971	191190	190801	0.38	cps
Arsenic	75-2	32175	31847	31924	31982	0.54	cps
Barium	135-1	179972	180754	179097	179941	0.46	cps
Barium	137-1	311729	311530	315395	312885	0.70	cps
Beryllium	9-1	150	153	163	156	4.46	cps
Bismuth	209-1	11395319	11529848	11439607	11454925	0.60	cps
Bismuth	209-2	9487046	10078357	10017648	9861017	3.30	cps
Bromine	81-1	17851	17490	18458	17933	2.73	cps
Bromine	81-2	247	257	243	249	2.79	cps
Cadmium	108-1	433	423	460	439	4.32	cps
Cadmium	106-1	26180	26671	26528	26460	0.95	cps
Cadmium	111-1	7042	7448	7295	7262	2.82	cps
Calcium	43-1	15908	16539	16352	16267	1.99	cps
Calcium	44-1	266803	267900	267603	267435	0.21	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26543	26356	26250	26383	0.56	cps
Cobalt	59-2	15508	15184	15084	15259	1.45	cps
Copper	63-2	4413517	4419040	4406408	4412988	0.14	cps
Dysprosium	156-1	6051	5925	6311	6096	3.24	cps
Dysprosium	156-2	5831	5628	5828	5762	2.02	cps
Erbium	164-1	4274	4037	4141	4151	2.86	cps
Erbium	164-2	2934	3034	2997	2988	1.69	cps
Gadolinium	160-1	4994	5071	4954	5006	1.18	cps
Gadolinium	160-2	4591	4611	4497	4566	1.33	cps
Holmium	165-1	15637855	15779265	15919949	15779023	0.89	cps
Holmium	165-2	10957927	11518875	11547755	11341519	2.93	cps
Indium	115-1	13047555	12850207	13069031	12988931	0.93	cps
Indium	115-2	4792202	5213962	5211469	5072544	4.79	cps
Iron	56-2	144855755	144609795	143313558	144259702	0.57	cps
Iron	57-2	3610620	3570951	3552351	3577974	0.83	cps
Iron	54-2	7926429	7819345	7821034	7855603	0.78	cps
Krypton	83-1	207	250	183	213	15.86	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:47:52 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	88612355	90463202	89602565	89559374	1.03	cps
Lead	207-1	75047652	76080804	75413729	75514062	0.69	cps
Lead	208-1	346866658	353948303	351211718	350675560	1.02	cps
Lithium	6-1	1416071	1428915	1427587	1424191	0.50	cps
Magnesium	24-2	312493	309985	309034	310504	0.58	cps
Manganese	55-2	1709561	1721450	1657963	1696325	1.99	cps
Molybdenum	94-1	70803	71135	71731	71223	0.66	cps
Molybdenum	95-1	120070	120760	121031	120621	0.41	cps
Molybdenum	96-1	131710	133748	134740	133399	1.16	cps
Molybdenum	97-1	75484	76026	76184	75898	0.48	cps
Molybdenum	98-1	193471	195952	195040	194821	0.64	cps
Neodymium	150-1	9553	9777	9890	9740	1.76	cps
Neodymium	150-2	6258	6278	6181	6239	0.82	cps
Nickel	60-2	6695	7005	7265	6988	4.09	cps
Phosphorus	31-2	6331	6505	6565	6467	1.87	cps
Potassium	39-2	230985	226638	228279	228634	0.96	cps
Rhodium	103-1	12096961	12215864	12161018	12157948	0.49	cps
Rhodium	103-2	6998104	7429763	7408043	7278637	3.34	cps
Scandium	45-1	7212053	7150952	7169997	7177667	0.44	cps
Scandium	45-2	615662	655483	657476	642874	3.67	cps
Selenium	82-1	870	803	943	872	8.00	cps
Selenium	77-2	73	113	67	84	29.89	cps
Selenium	78-2	737	693	667	699	5.05	cps
Silicon	28-1	3105969	3104276	3111436	3107227	0.12	cps
Silver	107-1	458031	460812	458942	459262	0.31	cps
Silver	109-1	437061	438608	438220	437963	0.18	cps
Sodium	23-2	59438	58276	58945	58886	0.99	cps
Strontium	86-1	31373	31353	31113	31280	0.46	cps
Strontium	88-1	270960	272553	270784	271432	0.36	cps
Sulfur	34-1	375183	373099	374783	374355	0.30	cps
Terbium	159-1	15922089	16130926	16330694	16127903	1.27	cps
Terbium	159-2	10818481	11605144	11524496	11316040	3.82	cps
Thallium	203-1	1590	1617	1633	1613	1.35	cps
Thallium	205-1	3634	3757	3637	3676	1.91	cps
Tin	118-1	110966	112367	111265	111533	0.66	cps
Titanium	47-1	37126	38048	37065	37413	1.47	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:47:52 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8623	8793	8603	8673	1.20	cps
Vanadium	51-2	26473	26590	26380	26481	0.40	cps
Yttrium	89-1	19603366	19759622	20110212	19824400	1.31	cps
Yttrium	89-2	5429365	5746113	5795100	5656859	3.51	cps
Zinc	66-2	392558	391711	390206	391491	0.30	cps
Zirconium	90-1	3184	3107	2990	3094	3.15	cps
Zirconium	91-1	790	640	717	716	10.48	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:51:03 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	204790	202805	202744	203446	0.57	cps
Antimony	121-1	1539258	1536533	1548943	1541578	0.42	cps
Arsenic	75-2	416450	417909	414202	416187	0.45	cps
Barium	135-1	154457	153050	154775	154094	0.60	cps
Barium	137-1	266238	266471	267985	266898	0.36	cps
Beryllium	9-1	133	147	123	134	8.71	cps
Bismuth	209-1	18183236	18361761	18263716	18269571	0.49	cps
Bismuth	209-2	16109320	15922824	15996519	16009554	0.59	cps
Bromine	81-1	17731	17734	17530	17665	0.66	cps
Bromine	81-2	257	227	270	251	8.84	cps
Cadmium	108-1	1523	1413	1560	1499	5.09	cps
Cadmium	106-1	27857	28047	27636	27847	0.74	cps
Cadmium	111-1	20038	20588	20581	20402	1.55	cps
Calcium	43-1	15208	14984	15288	15160	1.04	cps
Calcium	44-1	239984	243624	241551	241719	0.76	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13836	13873	13446	13719	1.73	cps
Cobalt	59-2	7805	8336	8039	8060	3.30	cps
Copper	63-2	17097387	17036943	16979322	17037884	0.35	cps
Dysprosium	156-1	4798	4854	4424	4692	4.98	cps
Dysprosium	156-2	4357	4181	4307	4282	2.13	cps
Erbium	164-1	3147	3034	2950	3044	3.24	cps
Erbium	164-2	2120	2090	2154	2121	1.49	cps
Gadolinium	160-1	3937	3931	3854	3907	1.19	cps
Gadolinium	160-2	3614	3530	3724	3623	2.68	cps
Holmium	165-1	15885426	15797984	15744761	15809390	0.45	cps
Holmium	165-2	11582278	11507723	11663125	11584375	0.67	cps
Indium	115-1	13294393	13291634	13225536	13270521	0.29	cps
Indium	115-2	5318285	5328840	5350820	5332648	0.31	cps
Iron	56-2	189862011	190417857	189609637	189963168	0.22	cps
Iron	57-2	4651661	4694397	4707768	4684608	0.63	cps
Iron	54-2	10370306	10449551	10368557	10396138	0.45	cps
Krypton	83-1	207	157	237	200	20.21	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:51:03 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	229059477	227842030	226191410	227697639	0.63	cps
Lead	207-1	195990177	197104250	193997590	195697339	0.80	cps
Lead	208-1	907907393	899349393	901423673	902893487	0.49	cps
Lithium	6-1	1398531	1419648	1408705	1408961	0.75	cps
Magnesium	24-2	101576	100381	100948	100968	0.59	cps
Manganese	55-2	2259905	2236396	2254643	2250315	0.55	cps
Molybdenum	94-1	404276	406867	405229	405457	0.32	cps
Molybdenum	95-1	699099	699660	706256	701672	0.57	cps
Molybdenum	96-1	756608	765338	757554	759833	0.63	cps
Molybdenum	97-1	440887	445849	442358	443031	0.58	cps
Molybdenum	98-1	1123371	1132165	1131284	1128940	0.43	cps
Neodymium	150-1	7105	7215	7719	7346	4.45	cps
Neodymium	150-2	5044	4991	4901	4979	1.46	cps
Nickel	60-2	2430	2274	2314	2339	3.48	cps
Phosphorus	31-2	3494	3754	3497	3582	4.17	cps
Potassium	39-2	364355	363025	363387	363589	0.19	cps
Rhodium	103-1	12207284	12215197	12264148	12228877	0.25	cps
Rhodium	103-2	7473556	7473608	7490066	7479077	0.13	cps
Scandium	45-1	7144856	7166437	7168259	7159851	0.18	cps
Scandium	45-2	661553	660746	665840	662713	0.41	cps
Selenium	82-1	1479	1594	1520	1531	3.82	cps
Selenium	77-2	143	107	187	146	27.51	cps
Selenium	78-2	997	1073	1000	1023	4.23	cps
Silicon	28-1	3013885	3058894	3069933	3047571	0.97	cps
Silver	107-1	447847	451127	448363	449112	0.39	cps
Silver	109-1	426208	429886	433646	429913	0.87	cps
Sodium	23-2	59126	58460	58607	58731	0.60	cps
Strontium	86-1	237501	238745	239023	238423	0.34	cps
Strontium	88-1	2140574	2137621	2123229	2133808	0.43	cps
Sulfur	34-1	563430	570096	571472	568333	0.76	cps
Terbium	159-1	16069488	16265594	16337116	16224066	0.85	cps
Terbium	159-2	11440000	11328427	11567871	11445433	1.05	cps
Thallium	203-1	8092	8082	7976	8050	0.80	cps
Thallium	205-1	19237	19033	18529	18933	1.92	cps
Tin	118-1	167909	167505	169008	168141	0.46	cps
Titanium	47-1	12375	12585	12699	12553	1.31	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL2X5 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:51:03 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19264	18600	19384	19083	2.21	cps
Vanadium	51-2	30053	29799	30063	29972	0.50	cps
Yttrium	89-1	20067354	20249839	19896346	20071180	0.88	cps
Yttrium	89-2	5834372	5824916	5766294	5808527	0.63	cps
Zinc	66-2	1546327	1532519	1561504	1546783	0.94	cps
Zirconium	90-1	4331	4351	4014	4232	4.46	cps
Zirconium	91-1	1550	1447	1430	1476	4.41	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14DLX5 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:54:12 DataFile Name : 090SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	476727	472029	475524	474760	0.51	cps
Antimony	121-1	24628	24364	25082	24691	1.47	cps
Arsenic	75-2	9767	10030	9677	9824	1.87	cps
Barium	135-1	95417	96118	96152	95896	0.43	cps
Barium	137-1	167221	167717	167500	167479	0.15	cps
Beryllium	9-1	377	367	410	384	5.90	cps
Bismuth	209-1	9923557	9568879	9462051	9651495	2.50	cps
Bismuth	209-2	8454438	8469006	8270813	8398086	1.32	cps
Bromine	81-1	17123	17480	16539	17048	2.79	cps
Bromine	81-2	207	177	163	182	12.18	cps
Cadmium	108-1	1477	1477	1483	1479	0.26	cps
Cadmium	106-1	28398	28094	27513	28002	1.61	cps
Cadmium	111-1	22140	22180	22585	22302	1.10	cps
Calcium	43-1	134725	136847	135253	135608	0.81	cps
Calcium	44-1	2148204	2164373	2135020	2149199	0.68	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18788	19236	18128	18717	2.98	cps
Cobalt	59-2	25014	24770	24346	24710	1.37	cps
Copper	63-2	635774	631464	631156	632798	0.41	cps
Dysprosium	156-1	8813	9430	9183	9142	3.40	cps
Dysprosium	156-2	8239	8393	8333	8321	0.93	cps
Erbium	164-1	6512	6655	6478	6548	1.43	cps
Erbium	164-2	4748	5081	4968	4932	3.44	cps
Gadolinium	160-1	8056	8273	7896	8075	2.34	cps
Gadolinium	160-2	6935	6768	6695	6799	1.81	cps
Holmium	165-1	16337010	15645023	15569209	15850414	2.67	cps
Holmium	165-2	11703290	11488145	11566971	11586135	0.94	cps
Indium	115-1	13431732	12893050	12614710	12979831	3.20	cps
Indium	115-2	5124119	5225695	5128601	5159472	1.11	cps
Iron	56-2	54461443	54609408	54096023	54388958	0.49	cps
Iron	57-2	1365202	1352314	1360505	1359341	0.48	cps
Iron	54-2	2988609	2959309	2974917	2974278	0.49	cps
Krypton	83-1	230	167	213	203	16.14	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14DLX5 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:54:12 DataFile Name : 090SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8720468	8844820	8791971	8785753	0.71	cps
Lead	207-1	7436699	7607017	7591233	7544983	1.25	cps
Lead	208-1	34476298	35077304	34736677	34763426	0.87	cps
Lithium	6-1	1473979	1443186	1413637	1443601	2.09	cps
Magnesium	24-2	413584	409601	413304	412163	0.54	cps
Manganese	55-2	22684871	22759655	22552651	22665725	0.46	cps
Molybdenum	94-1	54437	54752	54491	54560	0.31	cps
Molybdenum	95-1	92164	92795	91644	92201	0.62	cps
Molybdenum	96-1	99589	99921	99391	99634	0.27	cps
Molybdenum	97-1	56636	57733	56686	57018	1.09	cps
Molybdenum	98-1	147139	148930	147597	147889	0.63	cps
Neodymium	150-1	14177	14054	13917	14049	0.93	cps
Neodymium	150-2	8890	8923	8956	8923	0.37	cps
Nickel	60-2	7865	8052	7932	7950	1.19	cps
Phosphorus	31-2	4297	4274	4017	4196	3.70	cps
Potassium	39-2	284963	284241	283151	284118	0.32	cps
Rhodium	103-1	12551079	12225304	11973427	12249937	2.36	cps
Rhodium	103-2	7503610	7306896	7426026	7412177	1.34	cps
Scandium	45-1	7416027	7097587	7038896	7184170	2.82	cps
Scandium	45-2	649497	650399	643917	647938	0.54	cps
Selenium	82-1	487	491	490	490	0.43	cps
Selenium	77-2	17	37	33	29	37.08	cps
Selenium	78-2	570	533	513	539	5.33	cps
Silicon	28-1	3946299	3932700	3919275	3932758	0.34	cps
Silver	107-1	82925	84691	83512	83709	1.07	cps
Silver	109-1	77633	79570	78883	78695	1.25	cps
Sodium	23-2	40527	39698	40262	40162	1.05	cps
Strontium	86-1	32322	33134	32412	32623	1.36	cps
Strontium	88-1	280043	282771	284130	282315	0.74	cps
Sulfur	34-1	496415	496730	494795	495980	0.21	cps
Terbium	159-1	16796176	16247945	16130456	16391526	2.17	cps
Terbium	159-2	11472897	11527500	11370957	11457118	0.69	cps
Thallium	203-1	1283	1383	1250	1306	5.32	cps
Thallium	205-1	3320	3187	3090	3199	3.61	cps
Tin	118-1	2884	2987	2974	2948	1.91	cps
Titanium	47-1	19950	20360	19993	20101	1.12	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-14DLX5 Instrumnet Name : P7
Client Sample ID : MH2D65 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:54:12 DataFile Name : 090SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9764	9634	10194	9864	2.97	cps
Vanadium	51-2	19186	18688	19292	19055	1.69	cps
Yttrium	89-1	20715277	19684436	19672243	20023986	2.99	cps
Yttrium	89-2	5822211	5711650	5731962	5755274	1.02	cps
Zinc	66-2	1212909	1201768	1204443	1206373	0.48	cps
Zirconium	90-1	5008	5058	5161	5075	1.54	cps
Zirconium	91-1	1197	1037	1083	1106	7.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15DLX5 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:57:22 DataFile Name : 091SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1030901	1027220	1027253	1028458	0.21	cps
Antimony	121-1	43292	43395	42830	43172	0.70	cps
Arsenic	75-2	7612	7735	7709	7685	0.84	cps
Barium	135-1	108479	109584	109003	109022	0.51	cps
Barium	137-1	188096	191465	185675	188412	1.54	cps
Beryllium	9-1	2217	2174	2200	2197	1.00	cps
Bismuth	209-1	9708673	9841058	9855189	9801640	0.82	cps
Bismuth	209-2	8608717	8605325	8643348	8619130	0.24	cps
Bromine	81-1	16866	17033	16473	16791	1.71	cps
Bromine	81-2	193	280	240	238	18.24	cps
Cadmium	108-1	3244	3414	3227	3295	3.14	cps
Cadmium	106-1	29911	30328	30702	30314	1.31	cps
Cadmium	111-1	45607	45877	45641	45708	0.32	cps
Calcium	43-1	105211	106171	106171	105851	0.52	cps
Calcium	44-1	1696671	1698034	1682130	1692278	0.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	35318	35391	35622	35444	0.45	cps
Cobalt	59-2	71713	71020	71737	71490	0.57	cps
Copper	63-2	2066049	2037063	2062355	2055156	0.77	cps
Dysprosium	156-1	24017	24278	24391	24229	0.79	cps
Dysprosium	156-2	21967	22268	21627	21954	1.46	cps
Erbium	164-1	17972	17591	17948	17837	1.20	cps
Erbium	164-2	13256	13323	13070	13216	0.99	cps
Gadolinium	160-1	21780	21353	22128	21754	1.78	cps
Gadolinium	160-2	17131	17137	17234	17167	0.34	cps
Holmium	165-1	15648892	15809518	15965796	15808069	1.00	cps
Holmium	165-2	11665011	11751463	11768409	11728295	0.47	cps
Indium	115-1	12828909	12915660	12963005	12902525	0.53	cps
Indium	115-2	5113839	5176039	5123948	5137942	0.65	cps
Iron	56-2	85157844	85290744	84978840	85142476	0.18	cps
Iron	57-2	2124848	2083415	2124817	2111027	1.13	cps
Iron	54-2	4693104	4667866	4647191	4669387	0.49	cps
Krypton	83-1	233	210	187	210	11.11	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15DLX5 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:57:22 DataFile Name : 091SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	19011684	19277790	19041263	19110246	0.76	cps
Lead	207-1	16578841	16567529	16497974	16548114	0.26	cps
Lead	208-1	75549489	76098067	75373724	75673760	0.50	cps
Lithium	6-1	1473925	1475811	1449572	1466436	1.00	cps
Magnesium	24-2	1158621	1156514	1147192	1154109	0.53	cps
Manganese	55-2	15947469	16009471	15931110	15962683	0.26	cps
Molybdenum	94-1	17971	17961	18108	18013	0.46	cps
Molybdenum	95-1	26107	26604	26117	26276	1.08	cps
Molybdenum	96-1	30054	29456	29410	29640	1.21	cps
Molybdenum	97-1	16136	16536	16289	16320	1.24	cps
Molybdenum	98-1	41352	42271	41345	41656	1.28	cps
Neodymium	150-1	36363	36460	36367	36397	0.15	cps
Neodymium	150-2	23486	23433	23810	23576	0.87	cps
Nickel	60-2	13106	13489	14020	13538	3.39	cps
Phosphorus	31-2	6448	6555	6381	6461	1.35	cps
Potassium	39-2	307689	304505	306816	306337	0.54	cps
Rhodium	103-1	12004815	12044379	11937267	11995487	0.45	cps
Rhodium	103-2	7395744	7356741	7323476	7358654	0.49	cps
Scandium	45-1	7208325	7253730	7145907	7202654	0.75	cps
Scandium	45-2	640313	642500	640761	641191	0.18	cps
Selenium	82-1	414	580	605	533	19.52	cps
Selenium	77-2	53	63	83	67	22.91	cps
Selenium	78-2	633	603	570	602	5.26	cps
Silicon	28-1	7666407	7732733	7617411	7672184	0.75	cps
Silver	107-1	80217	80354	80210	80260	0.10	cps
Silver	109-1	76634	77774	77526	77311	0.78	cps
Sodium	23-2	53706	53151	54105	53654	0.89	cps
Strontium	86-1	98811	98825	99526	99054	0.41	cps
Strontium	88-1	867870	864202	869844	867305	0.33	cps
Sulfur	34-1	358835	356258	352513	355869	0.89	cps
Terbium	159-1	15997102	16313195	16299394	16203230	1.10	cps
Terbium	159-2	11537096	11562595	11337214	11478968	1.08	cps
Thallium	203-1	1307	1217	1450	1325	8.89	cps
Thallium	205-1	3197	3104	3054	3118	2.33	cps
Tin	118-1	4884	4821	4984	4896	1.68	cps
Titanium	47-1	35859	36989	35866	36238	1.79	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-15DLX5 Instrumnet Name : P7
Client Sample ID : MH2D68 Dilution Factor : 5
Date & Time Acquired : 2025-01-06 18:57:22 DataFile Name : 091SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19458	19938	19297	19565	1.70	cps
Vanadium	51-2	36768	35131	35315	35738	2.51	cps
Yttrium	89-1	19920848	19907578	19899982	19909469	0.05	cps
Yttrium	89-2	5768919	5723241	5759399	5750519	0.42	cps
Zinc	66-2	4102982	4142224	4126913	4124040	0.48	cps
Zirconium	90-1	7912	8029	9443	8461	10.07	cps
Zirconium	91-1	1747	1647	1647	1680	3.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL3X8 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 8
Date & Time Acquired : 2025-01-06 19:00:25 DataFile Name : 092SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	338201	340415	337039	338552	0.51	cps
Antimony	121-1	78636	78258	78570	78488	0.26	cps
Arsenic	75-2	7889	7919	7639	7815	1.97	cps
Barium	135-1	79862	79484	79379	79575	0.32	cps
Barium	137-1	137369	138069	137760	137733	0.25	cps
Beryllium	9-1	187	227	200	204	9.96	cps
Bismuth	209-1	10780075	10827256	10783217	10796849	0.24	cps
Bismuth	209-2	9523633	9362132	9355244	9413670	1.01	cps
Bromine	81-1	17040	17073	16926	17013	0.45	cps
Bromine	81-2	160	160	213	178	17.32	cps
Cadmium	108-1	1497	1447	1397	1447	3.46	cps
Cadmium	106-1	27359	27149	27012	27173	0.64	cps
Cadmium	111-1	21111	20948	20629	20896	1.17	cps
Calcium	43-1	17517	17293	17747	17519	1.30	cps
Calcium	44-1	290655	291445	290110	290736	0.23	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7329	7302	7692	7441	2.93	cps
Cobalt	59-2	25488	25765	25368	25541	0.80	cps
Copper	63-2	6828883	6823796	6694318	6782333	1.12	cps
Dysprosium	156-1	6942	6838	6718	6833	1.64	cps
Dysprosium	156-2	5891	5875	6382	6049	4.76	cps
Erbium	164-1	6075	5998	5711	5928	3.23	cps
Erbium	164-2	4427	4347	4354	4376	1.01	cps
Gadolinium	160-1	6191	6578	6321	6364	3.09	cps
Gadolinium	160-2	5494	5494	5304	5431	2.02	cps
Holmium	165-1	15941186	15774575	15843240	15853000	0.53	cps
Holmium	165-2	11665374	11516721	11545372	11575822	0.68	cps
Indium	115-1	12977323	12868031	12695694	12847016	1.11	cps
Indium	115-2	5175670	5079130	5042626	5099142	1.35	cps
Iron	56-2	44654521	45037829	44564894	44752415	0.56	cps
Iron	57-2	1118270	1118378	1113159	1116602	0.27	cps
Iron	54-2	2455028	2455591	2441139	2450586	0.33	cps
Krypton	83-1	190	147	223	187	20.59	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL3X8 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 8
Date & Time Acquired : 2025-01-06 19:00:25 DataFile Name : 092SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	31202505	31586612	31245535	31344884	0.67	cps
Lead	207-1	26452351	26688404	26280209	26473655	0.77	cps
Lead	208-1	122415492	123257790	121791148	122488143	0.60	cps
Lithium	6-1	1508703	1483621	1461690	1484671	1.58	cps
Magnesium	24-2	293817	291596	288861	291424	0.85	cps
Manganese	55-2	12189360	12310514	12139291	12213055	0.72	cps
Molybdenum	94-1	46530	46728	46798	46685	0.30	cps
Molybdenum	95-1	79015	80748	79883	79882	1.08	cps
Molybdenum	96-1	86198	87057	86564	86606	0.50	cps
Molybdenum	97-1	50443	49898	49323	49888	1.12	cps
Molybdenum	98-1	127204	128220	128912	128112	0.67	cps
Neodymium	150-1	10274	10537	10187	10333	1.77	cps
Neodymium	150-2	6788	6805	6181	6592	5.39	cps
Nickel	60-2	3324	3167	3277	3256	2.47	cps
Phosphorus	31-2	2800	2560	2784	2715	4.94	cps
Potassium	39-2	154248	155222	154966	154812	0.33	cps
Rhodium	103-1	11983410	12105155	11841769	11976778	1.10	cps
Rhodium	103-2	7382883	7332406	7360092	7358461	0.34	cps
Scandium	45-1	7152409	7080629	7165358	7132799	0.64	cps
Scandium	45-2	640318	639037	635411	638255	0.40	cps
Selenium	82-1	708	723	600	677	9.86	cps
Selenium	77-2	53	23	53	43	39.97	cps
Selenium	78-2	643	570	550	588	8.36	cps
Silicon	28-1	4066300	4101417	4064860	4077525	0.51	cps
Silver	107-1	328227	332150	334759	331712	0.99	cps
Silver	109-1	316642	315751	317315	316569	0.25	cps
Sodium	23-2	36687	36808	36383	36626	0.60	cps
Strontium	86-1	19954	19680	19910	19848	0.74	cps
Strontium	88-1	173274	173972	174387	173878	0.32	cps
Sulfur	34-1	267779	270260	267171	268403	0.61	cps
Terbium	159-1	16248864	16233129	15966346	16149447	0.98	cps
Terbium	159-2	11519802	11377285	11442685	11446591	0.62	cps
Thallium	203-1	953	913	930	932	2.16	cps
Thallium	205-1	2280	2287	2257	2275	0.69	cps
Tin	118-1	176666	178757	175214	176879	1.01	cps
Titanium	47-1	12639	12936	12689	12754	1.25	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-04DL3X8 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 8
Date & Time Acquired : 2025-01-06 19:00:25 DataFile Name : 092SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8966	8606	8690	8754	2.15	cps
Vanadium	51-2	15398	15148	15335	15293	0.85	cps
Yttrium	89-1	19974449	19700298	19889011	19854586	0.71	cps
Yttrium	89-2	5731457	5708683	5659680	5699940	0.64	cps
Zinc	66-2	1043303	1043300	1042264	1042956	0.06	cps
Zirconium	90-1	2837	2890	3117	2948	5.04	cps
Zirconium	91-1	697	557	677	643	11.77	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:03:35 DataFile Name : 093SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	98738	99332	99785	99285	0.53	cps
Antimony	121-1	95729	95621	95511	95621	0.11	cps
Arsenic	75-2	19453	19099	19106	19219	1.05	cps
Barium	135-1	12292	12272	12496	12353	1.00	cps
Barium	137-1	21720	21884	21660	21754	0.53	cps
Beryllium	9-1	193	200	187	193	3.45	cps
Bismuth	209-1	9929176	9786364	9792649	9836063	0.82	cps
Bismuth	209-2	8561932	8561245	8502659	8541945	0.40	cps
Bromine	81-1	16439	16696	16306	16480	1.20	cps
Bromine	81-2	107	170	123	133	24.62	cps
Cadmium	108-1	1137	1397	1313	1282	10.35	cps
Cadmium	106-1	26581	27095	26999	26892	1.02	cps
Cadmium	111-1	19513	19530	18977	19340	1.62	cps
Calcium	43-1	49092	49754	49340	49396	0.68	cps
Calcium	44-1	804719	811993	809217	808643	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5965	5921	6118	6001	1.72	cps
Cobalt	59-2	5878	5808	5774	5820	0.91	cps
Copper	63-2	881814	879568	880678	880687	0.13	cps
Dysprosium	156-1	2524	2337	2340	2400	4.45	cps
Dysprosium	156-2	1980	2040	2007	2009	1.50	cps
Erbium	164-1	1950	1933	1950	1945	0.49	cps
Erbium	164-2	1277	1473	1487	1412	8.33	cps
Gadolinium	160-1	2210	2217	2227	2218	0.38	cps
Gadolinium	160-2	2477	2404	2334	2405	2.98	cps
Holmium	165-1	15760564	15866497	15498772	15708611	1.20	cps
Holmium	165-2	11496857	11592515	11486639	11525337	0.51	cps
Indium	115-1	12738334	12801757	12685268	12741786	0.46	cps
Indium	115-2	5204415	5125328	5168316	5166020	0.77	cps
Iron	56-2	58964211	58845836	58506677	58772241	0.40	cps
Iron	57-2	1480337	1458991	1449531	1462953	1.08	cps
Iron	54-2	3209213	3222539	3221429	3217727	0.23	cps
Krypton	83-1	203	210	213	209	2.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:03:35 DataFile Name : 093SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	35501960	35454230	35456128	35470773	0.08	cps
Lead	207-1	30824907	30749770	30475646	30683441	0.60	cps
Lead	208-1	140985161	139979336	140363956	140442818	0.36	cps
Lithium	6-1	1495749	1455079	1452465	1467764	1.65	cps
Magnesium	24-2	55513	56102	55780	55798	0.53	cps
Manganese	55-2	15787933	15616711	15593356	15666000	0.68	cps
Molybdenum	94-1	23382	23182	23425	23330	0.56	cps
Molybdenum	95-1	39132	39386	39650	39390	0.66	cps
Molybdenum	96-1	43220	43347	42779	43115	0.69	cps
Molybdenum	97-1	24491	24551	24287	24443	0.57	cps
Molybdenum	98-1	63102	62128	63286	62839	0.99	cps
Neodymium	150-1	3070	3024	3010	3035	1.04	cps
Neodymium	150-2	1960	2007	2037	2001	1.93	cps
Nickel	60-2	2003	1730	1893	1876	7.33	cps
Phosphorus	31-2	1793	1687	1710	1730	3.24	cps
Potassium	39-2	141443	141742	142681	141955	0.46	cps
Rhodium	103-1	11977392	11810013	11962531	11916646	0.78	cps
Rhodium	103-2	7448607	7368830	7291667	7369701	1.06	cps
Scandium	45-1	7063490	7081638	7090860	7078663	0.20	cps
Scandium	45-2	637387	635768	636585	636580	0.13	cps
Selenium	82-1	639	643	611	631	2.72	cps
Selenium	77-2	27	23	13	21	32.88	cps
Selenium	78-2	550	510	660	573	13.55	cps
Silicon	28-1	3749092	3782168	3747852	3759704	0.52	cps
Silver	107-1	198144	202146	201816	200702	1.11	cps
Silver	109-1	190319	190170	193125	191205	0.87	cps
Sodium	23-2	40052	40086	40306	40148	0.34	cps
Strontium	86-1	15618	16022	15985	15875	1.41	cps
Strontium	88-1	136736	138983	138161	137960	0.82	cps
Sulfur	34-1	458292	464675	464608	462525	0.79	cps
Terbium	159-1	16113426	16066822	16015391	16065213	0.31	cps
Terbium	159-2	11420847	11464785	11463997	11449876	0.22	cps
Thallium	203-1	1593	1733	1630	1652	4.39	cps
Thallium	205-1	3857	4004	4057	3973	2.61	cps
Tin	118-1	6371	6265	6542	6393	2.18	cps
Titanium	47-1	10197	10000	10197	10131	1.12	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-02DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D29 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:03:35 DataFile Name : 093SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4244	4414	4344	4334	1.97	cps
Vanadium	51-2	6335	6828	6481	6548	3.87	cps
Yttrium	89-1	19621592	19558895	19512450	19564312	0.28	cps
Yttrium	89-2	5718252	5655539	5601335	5658375	1.03	cps
Zinc	66-2	1439564	1437571	1439573	1438902	0.08	cps
Zirconium	90-1	2817	2774	2704	2765	2.07	cps
Zirconium	91-1	533	547	600	560	6.30	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:09:33 DataFile Name : 094SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30757	30597	30731	30695	0.28	cps
Antimony	121-1	560769	562990	558907	560888	0.36	cps
Arsenic	75-2	187143	186822	186118	186694	0.28	cps
Barium	135-1	66287	67917	67435	67213	1.25	cps
Barium	137-1	116573	117497	117611	117227	0.49	cps
Beryllium	9-1	30	50	87	56	51.73	cps
Bismuth	209-1	11853266	11012483	11741236	11535661	3.96	cps
Bismuth	209-2	10503504	10186558	10292200	10327421	1.56	cps
Bromine	81-1	16459	16566	17087	16704	2.01	cps
Bromine	81-2	127	220	183	177	26.62	cps
Cadmium	108-1	303	333	263	300	11.71	cps
Cadmium	106-1	25045	22758	25292	24365	5.73	cps
Cadmium	111-1	5139	4936	5179	5085	2.56	cps
Calcium	43-1	1227	1247	1180	1218	2.81	cps
Calcium	44-1	22560	22413	23411	22795	2.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4401	4254	4287	4314	1.78	cps
Cobalt	59-2	1740	1697	1810	1749	3.27	cps
Copper	63-2	4466416	4466207	4409648	4447424	0.74	cps
Dysprosium	156-1	630	753	597	660	12.50	cps
Dysprosium	156-2	680	563	673	639	10.26	cps
Erbium	164-1	400	397	423	407	3.57	cps
Erbium	164-2	297	330	277	301	8.95	cps
Gadolinium	160-1	660	623	597	627	5.07	cps
Gadolinium	160-2	1133	1107	1157	1132	2.21	cps
Holmium	165-1	15710847	14370337	15397795	15159660	4.63	cps
Holmium	165-2	11588836	11517598	11293397	11466610	1.34	cps
Indium	115-1	12835911	11736038	12825398	12465782	5.07	cps
Indium	115-2	5141352	5114987	5106566	5120968	0.35	cps
Iron	56-2	63831236	63819717	64137597	63929517	0.28	cps
Iron	57-2	1595412	1591656	1589588	1592219	0.19	cps
Iron	54-2	3506323	3514705	3538818	3519948	0.48	cps
Krypton	83-1	167	193	183	181	7.44	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:09:33 DataFile Name : 094SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	53547153	53084403	52738899	53123485	0.76	cps
Lead	207-1	45078384	45070176	44991071	45046544	0.11	cps
Lead	208-1	209513242	208305480	207747075	208521932	0.43	cps
Lithium	6-1	1478093	1307376	1437487	1407652	6.34	cps
Magnesium	24-2	9920	9883	9930	9911	0.25	cps
Manganese	55-2	498170	495423	496107	496567	0.29	cps
Molybdenum	94-1	73356	72669	73332	73119	0.53	cps
Molybdenum	95-1	123579	126168	124699	124815	1.04	cps
Molybdenum	96-1	135864	136829	135443	136046	0.52	cps
Molybdenum	97-1	78308	79448	79431	79062	0.83	cps
Molybdenum	98-1	202540	202973	200770	202094	0.58	cps
Neodymium	150-1	1323	1353	1420	1366	3.62	cps
Neodymium	150-2	890	853	910	884	3.25	cps
Nickel	60-2	1073	1183	1173	1143	5.32	cps
Phosphorus	31-2	1260	1397	1387	1348	5.65	cps
Potassium	39-2	297702	299331	299771	298935	0.36	cps
Rhodium	103-1	11999639	11035419	11907159	11647406	4.57	cps
Rhodium	103-2	7397411	7347565	7389866	7378281	0.36	cps
Scandium	45-1	7141548	6526460	6965771	6877926	4.61	cps
Scandium	45-2	645168	645497	643035	644567	0.21	cps
Selenium	82-1	744	688	692	708	4.44	cps
Selenium	77-2	33	20	27	27	24.99	cps
Selenium	78-2	640	603	637	627	3.24	cps
Silicon	28-1	2024997	2015358	1985121	2008492	1.04	cps
Silver	107-1	229988	232785	232019	231597	0.62	cps
Silver	109-1	217785	223240	220760	220595	1.24	cps
Sodium	23-2	34505	34976	35083	34855	0.88	cps
Strontium	86-1	17434	17521	17751	17568	0.93	cps
Strontium	88-1	146751	147852	147427	147343	0.38	cps
Sulfur	34-1	342694	340110	339259	340688	0.53	cps
Terbium	159-1	16187201	14759398	15820956	15589185	4.76	cps
Terbium	159-2	11408999	11437934	11179300	11342078	1.25	cps
Thallium	203-1	4714	4894	4718	4775	2.16	cps
Thallium	205-1	11255	11605	11365	11408	1.57	cps
Tin	118-1	66640	65799	65776	66072	0.74	cps
Titanium	47-1	1157	1173	1023	1118	7.36	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-07DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:09:33 DataFile Name : 094SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1944	1883	1917	1915	1.57	cps
Vanadium	51-2	10214	10137	10000	10117	1.07	cps
Yttrium	89-1	19661761	17937808	19338231	18979266	4.83	cps
Yttrium	89-2	5694223	5708178	5655180	5685860	0.48	cps
Zinc	66-2	285394	284428	283344	284388	0.36	cps
Zirconium	90-1	1097	950	1110	1052	8.44	cps
Zirconium	91-1	433	423	417	424	1.98	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:12:41 DataFile Name : 095SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	65680	64538	64779	64999	0.93	cps
Antimony	121-1	257613	260429	261154	259732	0.72	cps
Arsenic	75-2	93347	91738	93096	92727	0.93	cps
Barium	135-1	34946	34732	34024	34567	1.40	cps
Barium	137-1	59541	60679	60424	60215	0.99	cps
Beryllium	9-1	73	80	67	73	9.09	cps
Bismuth	209-1	10497573	10707108	10890712	10698464	1.84	cps
Bismuth	209-2	9528899	9657205	9442654	9542919	1.13	cps
Bromine	81-1	17237	17057	16997	17097	0.73	cps
Bromine	81-2	163	167	130	153	13.22	cps
Cadmium	108-1	2060	2077	2140	2092	2.02	cps
Cadmium	106-1	27095	27546	28642	27761	2.86	cps
Cadmium	111-1	29101	29362	29243	29235	0.45	cps
Calcium	43-1	3237	3460	3150	3283	4.87	cps
Calcium	44-1	55876	56505	56130	56170	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5188	5274	5324	5262	1.31	cps
Cobalt	59-2	8696	8806	8743	8748	0.63	cps
Copper	63-2	3879035	3920452	3856280	3885256	0.84	cps
Dysprosium	156-1	1250	1060	1070	1127	9.49	cps
Dysprosium	156-2	1003	1153	1167	1108	8.19	cps
Erbium	164-1	990	813	837	880	10.91	cps
Erbium	164-2	623	643	713	660	7.16	cps
Gadolinium	160-1	1003	1057	1060	1040	3.06	cps
Gadolinium	160-2	1523	1497	1423	1481	3.50	cps
Holmium	165-1	15012837	15693214	15694072	15466708	2.54	cps
Holmium	165-2	11556162	11654336	11433530	11548009	0.96	cps
Indium	115-1	12322016	12802887	12871189	12665364	2.36	cps
Indium	115-2	5221269	5187628	5145990	5184962	0.73	cps
Iron	56-2	69232011	68697436	68597201	68842216	0.50	cps
Iron	57-2	1735873	1699220	1709508	1714867	1.10	cps
Iron	54-2	3815405	3759391	3776901	3783899	0.76	cps
Krypton	83-1	230	190	200	207	10.07	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:12:41 DataFile Name : 095SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	50475171	51001386	51203346	50893301	0.74	cps
Lead	207-1	43020824	43121046	43063934	43068602	0.12	cps
Lead	208-1	198384320	199357620	200351729	199364556	0.49	cps
Lithium	6-1	1409116	1408537	1406448	1408034	0.10	cps
Magnesium	24-2	35320	35237	35645	35401	0.61	cps
Manganese	55-2	1485868	1456061	1480578	1474169	1.08	cps
Molybdenum	94-1	64257	65897	65827	65327	1.42	cps
Molybdenum	95-1	111155	113865	111494	112171	1.32	cps
Molybdenum	96-1	122051	123123	122235	122470	0.47	cps
Molybdenum	97-1	71383	71460	71088	71311	0.28	cps
Molybdenum	98-1	180251	180028	181152	180477	0.33	cps
Neodymium	150-1	1600	1790	1673	1688	5.68	cps
Neodymium	150-2	1140	1057	1097	1098	3.80	cps
Nickel	60-2	1617	1623	1510	1583	4.02	cps
Phosphorus	31-2	1287	1280	1313	1293	1.36	cps
Potassium	39-2	284229	285936	287072	285746	0.50	cps
Rhodium	103-1	11652810	11953847	12134753	11913803	2.04	cps
Rhodium	103-2	7512067	7477188	7440501	7476585	0.48	cps
Scandium	45-1	6840346	7077378	7265614	7061113	3.02	cps
Scandium	45-2	655227	654990	652127	654115	0.26	cps
Selenium	82-1	653	666	674	664	1.62	cps
Selenium	77-2	37	33	30	33	10.01	cps
Selenium	78-2	577	707	597	627	11.17	cps
Silicon	28-1	2081045	2112175	2138826	2110682	1.37	cps
Silver	107-1	258121	265138	263276	262178	1.39	cps
Silver	109-1	251233	255525	250087	252282	1.14	cps
Sodium	23-2	35140	35183	34686	35003	0.79	cps
Strontium	86-1	12969	13450	12719	13046	2.85	cps
Strontium	88-1	110239	112023	112083	111448	0.94	cps
Sulfur	34-1	430789	427471	435546	431269	0.94	cps
Terbium	159-1	15292289	15940452	16087232	15773324	2.68	cps
Terbium	159-2	11713937	11409018	11383669	11502208	1.60	cps
Thallium	203-1	3804	3564	3711	3693	3.28	cps
Thallium	205-1	9003	8916	8920	8946	0.55	cps
Tin	118-1	64089	66405	65511	65335	1.79	cps
Titanium	47-1	1527	1553	1297	1459	9.67	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-08DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:12:41 DataFile Name : 095SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2980	2997	3157	3045	3.20	cps
Vanadium	51-2	10310	9983	9950	10081	1.97	cps
Yttrium	89-1	18840808	19550010	19650968	19347262	2.28	cps
Yttrium	89-2	5755747	5771625	5752242	5759872	0.18	cps
Zinc	66-2	1992935	1959082	1940409	1964142	1.36	cps
Zirconium	90-1	1063	1523	1370	1319	17.76	cps
Zirconium	91-1	350	377	377	368	4.19	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:15:49 DataFile Name : 096SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	180932	180015	178794	179914	0.60	cps
Antimony	121-1	93072	94327	93703	93700	0.67	cps
Arsenic	75-2	16142	16042	15612	15932	1.77	cps
Barium	135-1	89717	89130	88509	89119	0.68	cps
Barium	137-1	154913	154845	153272	154344	0.60	cps
Beryllium	9-1	83	100	107	97	12.44	cps
Bismuth	209-1	10400068	10337320	10386811	10374733	0.32	cps
Bismuth	209-2	9154845	9180922	8926163	9087310	1.54	cps
Bromine	81-1	17307	17200	16903	17137	1.22	cps
Bromine	81-2	163	193	217	191	13.99	cps
Cadmium	108-1	253	300	240	264	11.92	cps
Cadmium	106-1	25679	25619	25796	25698	0.35	cps
Cadmium	111-1	4537	4889	4899	4775	4.31	cps
Calcium	43-1	8159	8452	8576	8396	2.55	cps
Calcium	44-1	137042	140719	141987	139916	1.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14594	14914	15251	14920	2.20	cps
Cobalt	59-2	7982	7909	7692	7861	1.92	cps
Copper	63-2	2183493	2176899	2151465	2170619	0.78	cps
Dysprosium	156-1	3224	2957	2984	3055	4.81	cps
Dysprosium	156-2	2610	2897	2757	2755	5.20	cps
Erbium	164-1	2024	2167	1927	2039	5.92	cps
Erbium	164-2	1560	1507	1527	1531	1.76	cps
Gadolinium	160-1	2647	2580	2604	2610	1.30	cps
Gadolinium	160-2	2687	2644	2657	2663	0.83	cps
Holmium	165-1	15563719	15753549	15690755	15669341	0.62	cps
Holmium	165-2	11663391	11678889	11502309	11614863	0.84	cps
Indium	115-1	12992109	12883871	12859609	12911863	0.55	cps
Indium	115-2	5193957	5192232	5208815	5198335	0.18	cps
Iron	56-2	71711104	71803461	71137842	71550802	0.50	cps
Iron	57-2	1794114	1770997	1764771	1776627	0.87	cps
Iron	54-2	3911977	3904386	3922170	3912844	0.23	cps
Krypton	83-1	130	220	217	189	27.01	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:15:49 DataFile Name : 096SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	43868968	43951563	44185834	44002122	0.37	cps
Lead	207-1	37097088	37446582	37507274	37350314	0.59	cps
Lead	208-1	171352714	173932300	172762207	172682407	0.75	cps
Lithium	6-1	1433619	1392863	1405044	1410509	1.48	cps
Magnesium	24-2	154826	153726	154395	154316	0.36	cps
Manganese	55-2	822051	819280	824503	821945	0.32	cps
Molybdenum	94-1	35891	34788	35450	35376	1.57	cps
Molybdenum	95-1	59872	60307	59480	59886	0.69	cps
Molybdenum	96-1	65027	66011	66728	65922	1.30	cps
Molybdenum	97-1	37438	37454	38200	37697	1.15	cps
Molybdenum	98-1	95841	96586	97167	96531	0.69	cps
Neodymium	150-1	4681	4667	4861	4736	2.28	cps
Neodymium	150-2	3254	3144	3054	3150	3.18	cps
Nickel	60-2	3857	4124	3937	3973	3.45	cps
Phosphorus	31-2	3430	3324	3394	3383	1.60	cps
Potassium	39-2	145231	144982	145410	145208	0.15	cps
Rhodium	103-1	12167282	12163808	12073661	12134917	0.44	cps
Rhodium	103-2	7490329	7447642	7444817	7460929	0.34	cps
Scandium	45-1	7180255	7094601	7143146	7139334	0.60	cps
Scandium	45-2	654649	650299	649512	651486	0.42	cps
Selenium	82-1	716	659	687	687	4.12	cps
Selenium	77-2	27	47	23	32	39.17	cps
Selenium	78-2	587	683	650	640	7.67	cps
Silicon	28-1	2315595	2346925	2307449	2323323	0.90	cps
Silver	107-1	225261	227837	228639	227246	0.78	cps
Silver	109-1	215339	217991	217869	217066	0.69	cps
Sodium	23-2	41716	40961	40881	41186	1.12	cps
Strontium	86-1	15038	15321	16186	15515	3.85	cps
Strontium	88-1	134838	134057	134636	134510	0.30	cps
Sulfur	34-1	278936	278356	278053	278448	0.16	cps
Terbium	159-1	16025137	16080266	15800094	15968499	0.93	cps
Terbium	159-2	11544606	11392700	11435380	11457562	0.68	cps
Thallium	203-1	857	827	780	821	4.71	cps
Thallium	205-1	1900	2067	2124	2030	5.72	cps
Tin	118-1	56149	55700	55259	55703	0.80	cps
Titanium	47-1	18992	18678	19112	18927	1.18	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-09DL3X10 Instrumnet Name : P7
Client Sample ID : MH2D50 Dilution Factor : 10
Date & Time Acquired : 2025-01-06 19:15:49 DataFile Name : 096SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4444	4117	4441	4334	4.33	cps
Vanadium	51-2	13419	12265	13266	12983	4.83	cps
Yttrium	89-1	19670156	19691071	19548364	19636530	0.39	cps
Yttrium	89-2	5765496	5768968	5760833	5765099	0.07	cps
Zinc	66-2	194397	193232	192959	193529	0.39	cps
Zirconium	90-1	2077	1947	1993	2006	3.28	cps
Zirconium	91-1	330	327	410	356	13.27	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL3X20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-06 19:19:33 DataFile Name : 097SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	50011	50583	50048	50214	0.64	cps
Antimony	121-1	372749	378500	378312	376520	0.87	cps
Arsenic	75-2	101598	101873	101910	101794	0.17	cps
Barium	135-1	36975	37834	37369	37392	1.15	cps
Barium	137-1	64860	65453	65105	65139	0.46	cps
Beryllium	9-1	47	50	73	57	25.64	cps
Bismuth	209-1	11818552	11634261	11705667	11719494	0.79	cps
Bismuth	209-2	10160044	10155840	10239774	10185219	0.46	cps
Bromine	81-1	17300	17561	17073	17311	1.41	cps
Bromine	81-2	147	140	183	157	14.90	cps
Cadmium	108-1	450	377	443	423	9.58	cps
Cadmium	106-1	25713	25339	26327	25793	1.93	cps
Cadmium	111-1	6910	7008	6886	6935	0.93	cps
Calcium	43-1	3987	4134	3984	4035	2.12	cps
Calcium	44-1	68072	68996	68196	68421	0.73	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5848	6108	6051	6002	2.28	cps
Cobalt	59-2	2120	2174	2033	2109	3.35	cps
Copper	63-2	4178937	4179146	4138305	4165463	0.56	cps
Dysprosium	156-1	1010	1113	1150	1091	6.65	cps
Dysprosium	156-2	967	1073	1130	1057	7.85	cps
Erbium	164-1	770	797	870	812	6.38	cps
Erbium	164-2	547	557	607	570	5.64	cps
Gadolinium	160-1	983	1020	1113	1039	6.45	cps
Gadolinium	160-2	1433	1273	1570	1426	10.42	cps
Holmium	165-1	15830983	15863085	15491680	15728583	1.31	cps
Holmium	165-2	11470894	11513251	11572766	11518970	0.44	cps
Indium	115-1	13023385	12880762	12830508	12911552	0.77	cps
Indium	115-2	5156395	5227087	5185722	5189735	0.68	cps
Iron	56-2	46132479	45699136	46077119	45969578	0.51	cps
Iron	57-2	1161364	1158065	1166728	1162052	0.38	cps
Iron	54-2	2568882	2531139	2569278	2556433	0.86	cps
Krypton	83-1	157	200	167	174	13.01	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL3X20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-06 19:19:33 DataFile Name : 097SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	54918791	55794308	56336357	55683152	1.28	cps
Lead	207-1	46815958	47128174	47453258	47132463	0.68	cps
Lead	208-1	218326250	218834930	218623860	218595013	0.12	cps
Lithium	6-1	1453686	1409973	1374392	1412684	2.81	cps
Magnesium	24-2	24927	24920	25264	25037	0.79	cps
Manganese	55-2	530312	528533	534175	531007	0.54	cps
Molybdenum	94-1	97766	101079	99022	99289	1.68	cps
Molybdenum	95-1	169310	171953	172203	171155	0.94	cps
Molybdenum	96-1	183947	187748	187739	186478	1.18	cps
Molybdenum	97-1	106595	107189	109819	107868	1.59	cps
Molybdenum	98-1	275620	276790	275066	275825	0.32	cps
Neodymium	150-1	1680	1947	1733	1787	7.90	cps
Neodymium	150-2	1200	1133	1273	1202	5.82	cps
Nickel	60-2	1393	1360	1353	1369	1.57	cps
Phosphorus	31-2	1163	1003	1177	1114	8.66	cps
Potassium	39-2	137712	138022	138802	138179	0.41	cps
Rhodium	103-1	12284886	12012763	12056889	12118179	1.21	cps
Rhodium	103-2	7401358	7376532	7298720	7358870	0.73	cps
Scandium	45-1	7151358	7200757	7116702	7156272	0.59	cps
Scandium	45-2	651979	653527	650817	652108	0.21	cps
Selenium	82-1	764	679	761	735	6.56	cps
Selenium	77-2	30	23	27	27	12.51	cps
Selenium	78-2	550	593	590	578	4.17	cps
Silicon	28-1	1897170	1920141	1933833	1917048	0.97	cps
Silver	107-1	108525	109768	109099	109131	0.57	cps
Silver	109-1	102982	104647	105974	104535	1.43	cps
Sodium	23-2	33610	33810	34038	33819	0.63	cps
Strontium	86-1	57592	58261	58308	58054	0.69	cps
Strontium	88-1	503522	505678	511315	506838	0.79	cps
Sulfur	34-1	279009	281913	281360	280761	0.55	cps
Terbium	159-1	15994886	15982531	15906973	15961464	0.30	cps
Terbium	159-2	11532439	11457387	11384570	11458132	0.65	cps
Thallium	203-1	2277	1950	2190	2139	7.91	cps
Thallium	205-1	4844	5351	5024	5073	5.06	cps
Tin	118-1	41831	42506	41546	41961	1.17	cps
Titanium	47-1	2977	3144	3147	3089	3.15	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : P5388-11DL3X20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-06 19:19:33 DataFile Name : 097SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4768	4684	4551	4668	2.34	cps
Vanadium	51-2	7602	7375	7505	7494	1.52	cps
Yttrium	89-1	19633493	19578946	19586005	19599481	0.15	cps
Yttrium	89-2	5727593	5761762	5677563	5722306	0.74	cps
Zinc	66-2	370728	367055	364830	367537	0.81	cps
Zirconium	90-1	1633	1697	1643	1658	2.05	cps
Zirconium	91-1	433	497	417	449	9.40	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P7
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:22:43 DataFile Name : 098CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10249084	10119495	10138669	10169082	0.69	cps
Antimony	121-1	5545606	5522927	5448824	5505786	0.92	cps
Arsenic	75-2	259575	257701	258087	258454	0.38	cps
Barium	135-1	6982172	6928058	6907846	6939358	0.55	cps
Barium	137-1	12131093	12249087	11800973	12060384	1.93	cps
Beryllium	9-1	595240	605911	593606	598252	1.12	cps
Bismuth	209-1	8591297	8452773	9509648	8851239	6.49	cps
Bismuth	209-2	7348530	7379602	7344659	7357597	0.26	cps
Bromine	81-1	13436	13066	12716	13073	2.76	cps
Bromine	81-2	113	127	113	118	6.54	cps
Cadmium	108-1	102730	104660	102545	103312	1.13	cps
Cadmium	106-1	168488	167274	167942	167901	0.36	cps
Cadmium	111-1	1280327	1269583	1265611	1271841	0.60	cps
Calcium	43-1	6830131	6769683	6591512	6730442	1.84	cps
Calcium	44-1	110962245	109698585	108106058	109588963	1.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1956464	1960445	1939259	1952056	0.58	cps
Cobalt	59-2	3005178	2962837	2927506	2965174	1.31	cps
Copper	63-2	21059011	21151796	21064778	21091862	0.25	cps
Dysprosium	156-1	447	443	467	452	2.79	cps
Dysprosium	156-2	630	527	590	582	8.95	cps
Erbium	164-1	377	360	360	366	2.63	cps
Erbium	164-2	240	250	287	259	9.49	cps
Gadolinium	160-1	307	323	437	356	19.90	cps
Gadolinium	160-2	853	737	787	792	7.39	cps
Holmium	165-1	14864222	14537577	16503754	15301851	6.89	cps
Holmium	165-2	10833998	10752618	10780336	10788984	0.38	cps
Indium	115-1	10937231	10632310	12164440	11244660	7.21	cps
Indium	115-2	4225318	4165976	4165763	4185686	0.82	cps
Iron	56-2	452405420	454677087	456147593	454410033	0.41	cps
Iron	57-2	11543757	11526921	11456031	11508903	0.40	cps
Iron	54-2	25039258	24754638	24659254	24817717	0.80	cps
Krypton	83-1	177	143	167	162	10.54	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P7
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:22:43 DataFile Name : 098CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21490102	21693581	21386721	21523468	0.73	cps
Lead	207-1	19099710	19313094	18997519	19136774	0.84	cps
Lead	208-1	86956268	87767827	86523343	87082479	0.73	cps
Lithium	6-1	1522438	1432419	1618832	1524563	6.11	cps
Magnesium	24-2	81688145	81516380	81025204	81409910	0.42	cps
Manganese	55-2	15380826	15560823	15574706	15505452	0.70	cps
Molybdenum	94-1	18301766	18843642	18532131	18559180	1.47	cps
Molybdenum	95-1	26654466	26947618	26397930	26666671	1.03	cps
Molybdenum	96-1	29702798	29667023	29123240	29497687	1.10	cps
Molybdenum	97-1	16755339	16645362	16486592	16629098	0.81	cps
Molybdenum	98-1	43278333	43321043	42334463	42977946	1.30	cps
Neodymium	150-1	600	600	577	592	2.28	cps
Neodymium	150-2	167	217	190	191	13.09	cps
Nickel	60-2	735388	735142	733781	734770	0.12	cps
Phosphorus	31-2	97863	97779	97994	97879	0.11	cps
Potassium	39-2	57761719	57411224	57335346	57502763	0.40	cps
Rhodium	103-1	9909258	9555638	10669623	10044840	5.67	cps
Rhodium	103-2	5808535	5828730	5745724	5794330	0.75	cps
Scandium	45-1	6173041	5871964	6660546	6235184	6.38	cps
Scandium	45-2	506276	507347	504890	506171	0.24	cps
Selenium	82-1	79640	79788	78451	79293	0.92	cps
Selenium	77-2	8339	8432	8609	8460	1.62	cps
Selenium	78-2	28902	29573	29232	29236	1.15	cps
Silicon	28-1	33958509	33558366	32945973	33487616	1.52	cps
Silver	107-1	6678768	6662019	6667731	6669506	0.13	cps
Silver	109-1	6394320	6411968	6307390	6371226	0.88	cps
Sodium	23-2	139006878	137928195	138025048	138320040	0.43	cps
Strontium	86-1	1664179	1687022	1673659	1674953	0.69	cps
Strontium	88-1	14888064	14654439	14458204	14666902	1.47	cps
Sulfur	34-1	541927	533451	522553	532644	1.82	cps
Terbium	159-1	15085460	14715159	16532059	15444226	6.22	cps
Terbium	159-2	10601926	10588632	10531231	10573929	0.36	cps
Thallium	203-1	5463997	5483383	5500999	5482793	0.34	cps
Thallium	205-1	13124682	13274427	13097524	13165545	0.72	cps
Tin	118-1	4418975	4399272	4374658	4397635	0.50	cps
Titanium	47-1	6562717	6474903	6317143	6451588	1.93	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P7
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:22:43 DataFile Name : 098CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17119253	17584503	17260946	17321567	1.38	cps
Vanadium	51-2	1762129	1763475	1749174	1758259	0.45	cps
Yttrium	89-1	17415736	16669854	18726303	17603964	5.91	cps
Yttrium	89-2	4712321	4700991	4636810	4683374	0.87	cps
Zinc	66-2	3704159	3713277	3728382	3715273	0.33	cps
Zirconium	90-1	9235602	9245100	9140719	9207140	0.63	cps
Zirconium	91-1	2063500	2029408	1990795	2027901	1.79	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P7
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:25:24 DataFile Name : 099CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1857	1643	1807	1769	6.31	cps
Antimony	121-1	2920	2450	2220	2530	14.10	cps
Arsenic	75-2	73	33	77	61	39.46	cps
Barium	135-1	1297	1100	1150	1182	8.65	cps
Barium	137-1	2304	1860	1977	2047	11.23	cps
Beryllium	9-1	223	180	157	187	18.12	cps
Bismuth	209-1	9926512	9656705	9586840	9723352	1.84	cps
Bismuth	209-2	8181926	8180094	8103006	8155009	0.55	cps
Bromine	81-1	12706	13056	12959	12907	1.40	cps
Bromine	81-2	133	120	117	123	7.15	cps
Cadmium	108-1	50	87	77	71	26.66	cps
Cadmium	106-1	22321	22113	21793	22076	1.20	cps
Cadmium	111-1	2500	2411	2362	2424	2.89	cps
Calcium	43-1	1527	1393	1360	1427	6.18	cps
Calcium	44-1	28266	26193	26102	26854	4.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3237	3130	2960	3109	4.49	cps
Cobalt	59-2	617	633	690	647	5.94	cps
Copper	63-2	6468	6588	6475	6510	1.04	cps
Dysprosium	156-1	27	13	17	19	36.75	cps
Dysprosium	156-2	7	0	7	4	86.60	cps
Erbium	164-1	93	40	87	73	39.63	cps
Erbium	164-2	33	63	40	46	34.58	cps
Gadolinium	160-1	67	123	93	94	30.02	cps
Gadolinium	160-2	673	597	550	607	10.26	cps
Holmium	165-1	15149309	15123421	15265402	15179377	0.50	cps
Holmium	165-2	10872182	10779993	10836038	10829404	0.43	cps
Indium	115-1	11757947	11711529	11617919	11695798	0.61	cps
Indium	115-2	4424420	4422544	4416212	4421059	0.10	cps
Iron	56-2	103815	104738	105479	104677	0.80	cps
Iron	57-2	3250	3537	3460	3416	4.35	cps
Iron	54-2	6852	7252	7312	7138	3.50	cps
Krypton	83-1	170	163	160	164	3.10	cps

LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P7
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:25:24 DataFile Name : 099CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9974	9203	8146	9108	10.08	cps
Lead	207-1	8576	7896	7462	7978	7.04	cps
Lead	208-1	39506	35872	33817	36398	7.91	cps
Lithium	6-1	1611536	1651713	1596536	1619928	1.76	cps
Magnesium	24-2	13306	13923	13836	13688	2.44	cps
Manganese	55-2	2984	2887	3010	2960	2.19	cps
Molybdenum	94-1	4304	3891	3707	3967	7.71	cps
Molybdenum	95-1	5504	4908	5038	5150	6.10	cps
Molybdenum	96-1	6381	5441	5668	5830	8.42	cps
Molybdenum	97-1	3701	3204	3094	3333	9.70	cps
Molybdenum	98-1	9220	8312	7709	8414	9.04	cps
Neodymium	150-1	13	3	10	9	57.30	cps
Neodymium	150-2	3	10	0	4	114.60	cps
Nickel	60-2	887	900	780	856	7.69	cps
Phosphorus	31-2	203	217	183	201	8.34	cps
Potassium	39-2	57990	57950	57237	57726	0.73	cps
Rhodium	103-1	10737224	10538404	10647481	10641036	0.94	cps
Rhodium	103-2	6285250	6295006	6313849	6298035	0.23	cps
Scandium	45-1	6032242	6078628	6047994	6052955	0.39	cps
Scandium	45-2	497681	493246	491724	494217	0.63	cps
Selenium	82-1	363	350	350	354	2.16	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	350	293	307	317	9.36	cps
Silicon	28-1	746953	747546	739884	744794	0.57	cps
Silver	107-1	2094	1803	1780	1892	9.23	cps
Silver	109-1	1977	1600	1640	1739	11.90	cps
Sodium	23-2	52128	51278	51563	51656	0.84	cps
Strontium	86-1	537	553	583	558	4.24	cps
Strontium	88-1	2897	2517	2520	2645	8.26	cps
Sulfur	34-1	158886	158424	157239	158183	0.54	cps
Terbium	159-1	15332115	15560180	15346160	15412819	0.83	cps
Terbium	159-2	10516096	10649394	10703378	10622956	0.91	cps
Thallium	203-1	1917	1587	1733	1746	9.47	cps
Thallium	205-1	4454	4157	4087	4233	4.60	cps
Tin	118-1	1880	1790	1887	1852	2.91	cps
Titanium	47-1	1183	1070	1053	1102	6.42	cps

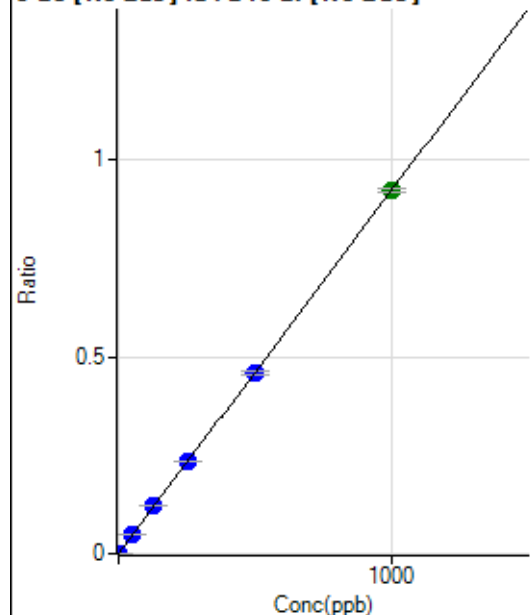
LB Number : LB134172 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P7
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-06 19:25:24 DataFile Name : 099CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2984	2867	2750	2867	4.07	cps
Vanadium	51-2	253	300	350	301	16.05	cps
Yttrium	89-1	17646931	17258536	17326711	17410726	1.19	cps
Yttrium	89-2	4652118	4709615	4691487	4684407	0.63	cps
Zinc	66-2	960	1027	950	979	4.26	cps
Zirconium	90-1	3094	2654	2574	2774	10.10	cps
Zirconium	91-1	550	447	443	480	12.63	cps

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7011425MS2.b\
Analysis File: P7011425MS2.batch.bin
DA Date-Time: 2025-01-14 14:51:11
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-14 12:27:47
2	006CALS.d	S02	2025-01-14 12:34:20
3	007CALS.d	S03	2025-01-14 12:37:36
4	008CALS.d	S04	2025-01-14 12:40:38
5	009CALS.d	S05	2025-01-14 12:43:29
6	010CALS.d	S06	2025-01-14 12:46:18
7	011CALS.d	S07	2025-01-14 12:49:02
8	012CALS.d	S08	2025-01-14 12:51:48

9 Be [No Gas] ISTD:6 Li [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	156.67	0.0001	P	2.5
2	☐	1.000	1.127	1342.30	0.0012	P	2.9
3	☐	50.000	53.466	57508.08	0.0495	P	0.7
4	☐	125.000	131.776	143046.69	0.1218	P	1.9
5	☐	250.000	254.588	274822.23	0.2352	P	1.2
6	☐	500.000	498.177	517760.99	0.4600	P	2.6
7	☐	1000.000	998.744	1032293.90	0.9221	A	1.2
8	☐			521.12	0.0005	P	11.0

$$y = 9.2316E-004 * x + 1.4045E-004$$

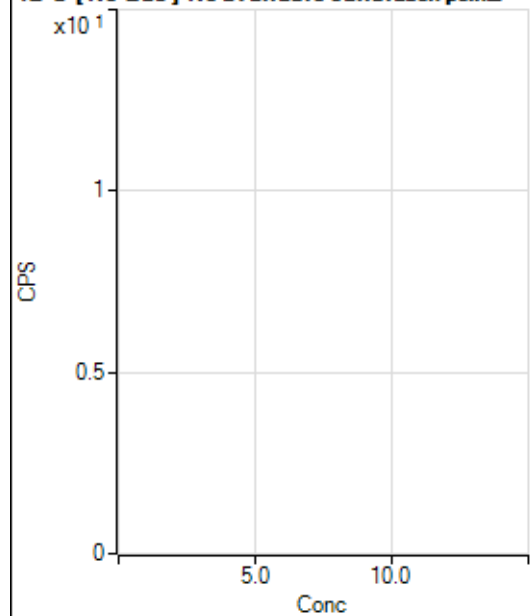
$$R = 1.0000$$

$$DL = 0.01163$$

Weight: <None>

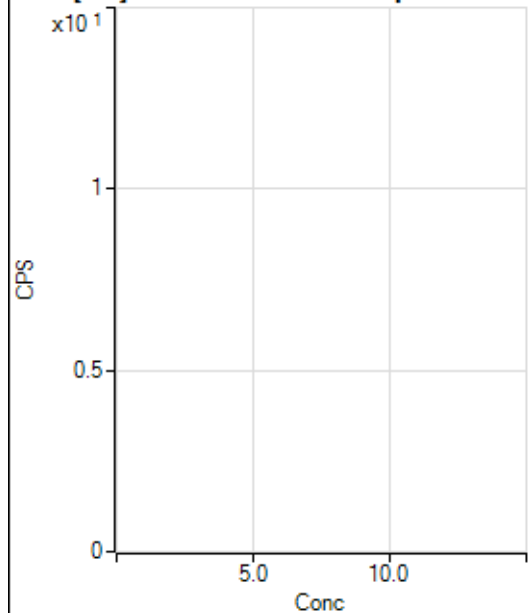
Min Conc: 0

12 C [No Gas] No available calibration points



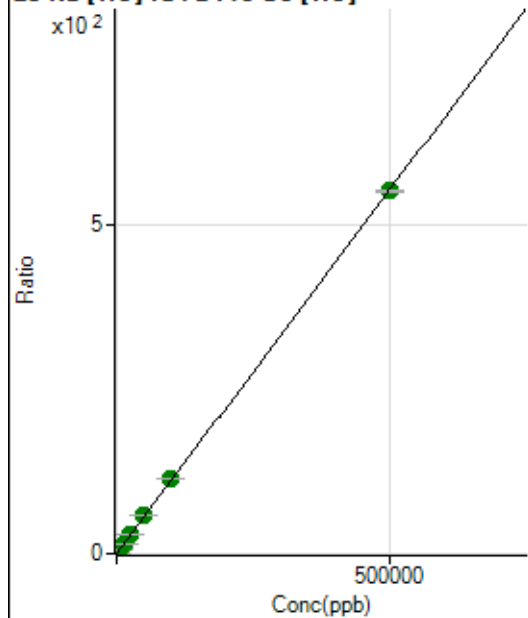
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

23 Na [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	37081.20	0.0674	P	1.3
2	☐	500.000	513.821	353605.58	0.6359	P	0.5
3	☐	5000.000	5286.098	3132471.34	5.9160	A	0.5
4	☐	12500.000	13278.921	7676528.71	14.7593	A	0.8
5	☐	25000.000	26342.510	14481067.98	29.2130	A	0.9
6	☐	50000.000	52877.747	27576993.20	58.5718	A	1.0
7	☐	100000.00	103488.57	54797574.74	114.5681	A	0.8
8	☐	500000.00	498925.03	275138638.1	552.0828	A	0.3

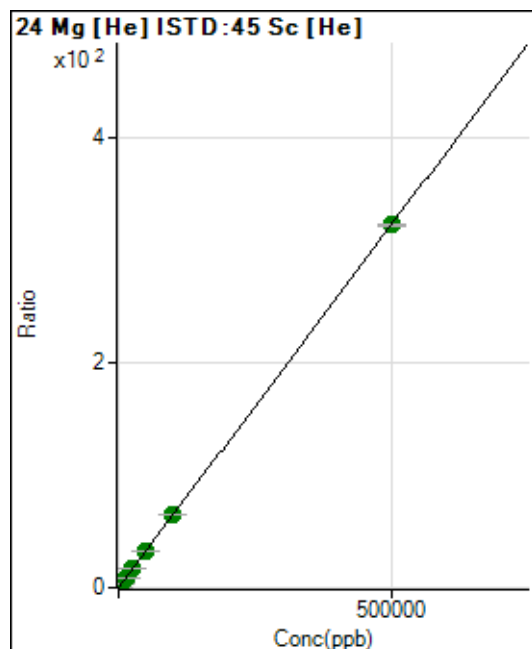
$$y = 0.0011 * x + 0.0674$$

$$R = 1.0000$$

$$DL = 2.3$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14969.60	0.0272	P	1.1
2	☐	500.000	550.205	212627.45	0.3824	P	0.4
3	☐	5000.000	5172.087	1782156.34	3.3658	A	1.6
4	☐	12500.000	12957.797	4364477.68	8.3915	A	0.4
5	☐	25000.000	25758.430	8256015.43	16.6544	A	0.6
6	☐	50000.000	51226.375	15581531.71	33.0940	A	0.5
7	☐	100000.00	100559.34	31059507.04	64.9386	A	1.1
8	☐	500000.00	499714.35	160769310.9	322.5946	A	0.3

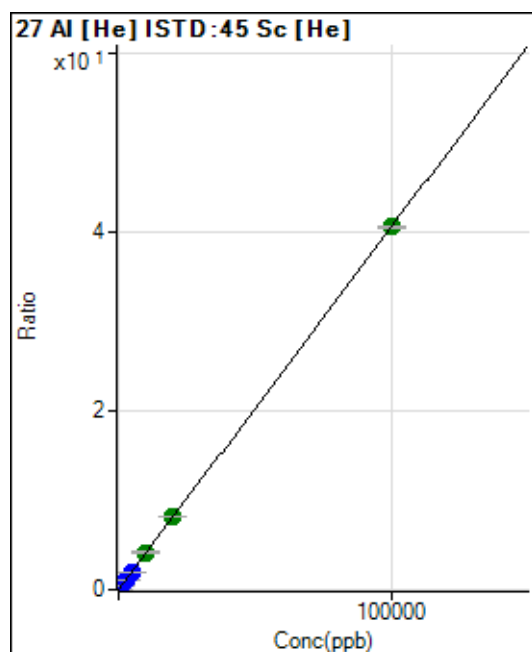
$$y = 6.4550\text{E-}004 * x + 0.0272$$

$$R = 1.0000$$

$$DL = 1.423$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1959.04	0.0036	P	4.7
2	☐	20.000	20.802	6670.40	0.0120	P	1.1
3	☐	1000.000	1006.363	217951.90	0.4116	P	0.3
4	☐	2500.000	2543.303	538219.95	1.0348	P	0.2
5	☐	5000.000	4977.462	1002239.54	2.0218	P	0.3
6	☐	10000.000	10273.368	1962925.72	4.1692	A	1.8
7	☐	20000.000	19943.803	3869645.36	8.0904	A	0.5
8	☐	100000.00	99983.883	20206333.31	40.5451	A	0.6

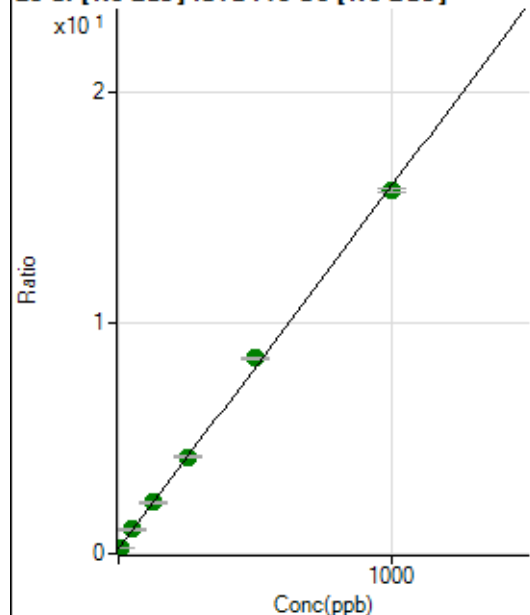
$$y = 4.0548\text{E-}004 * x + 0.0036$$

$$R = 1.0000$$

$$DL = 1.231$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1174516.87	0.2113	A	2.7
2	☐	10.000	0.145	1205179.65	0.2136	A	2.6
3	☐	50.000	52.886	5754344.36	1.0416	A	1.3
4	☐	125.000	127.262	11668046.35	2.2092	A	1.1
5	☐	250.000	253.352	21331248.57	4.1887	A	2.0
6	☐	500.000	524.710	40699038.56	8.4488	A	1.8
7	☐	1000.000	986.479	73793768.90	15.6981	A	1.1
8	☐			653587.71	0.1345	P	1.6

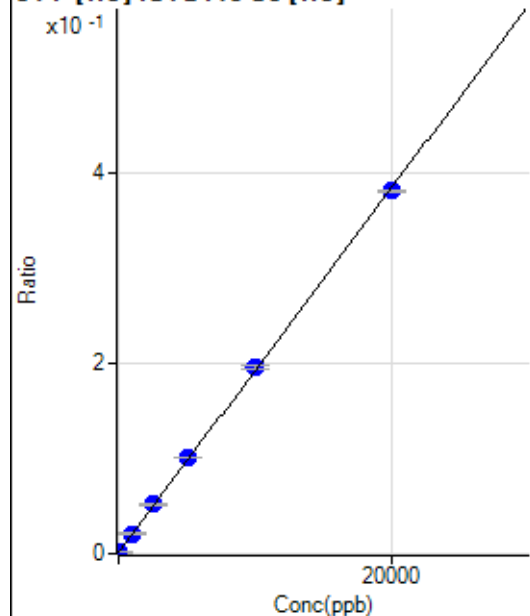
$$y = 0.0157 * x + 0.2113$$

$$R = 0.9994$$

$$DL = 1.098$$

Weight: <None>

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-17.369	404.45	0.0007	P	4.1
2	☐	0.000	17.369	777.81	0.0014	P	12.5
3	☐	1000.000	1044.833	11143.04	0.0210	P	2.0
4	☐	2500.000	2636.872	26776.83	0.0515	P	0.8
5	☐	5000.000	5201.775	49831.87	0.1005	P	0.3
6	☐	10000.000	10178.535	92127.35	0.1957	P	1.5
7	☐	20000.000	19840.938	181952.94	0.3804	P	0.7
8	☐			523.35	0.0011	P	15.1

$$y = 1.9120E-005 * x + 0.0011$$

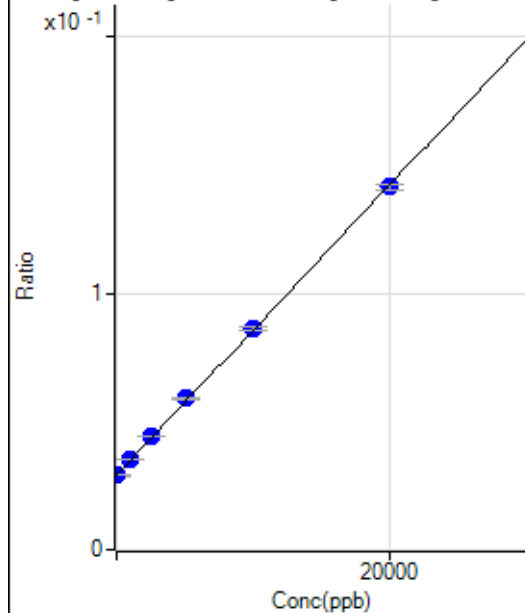
$$R = 0.9999$$

$$DL = 16.06$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-40.012	160330.70	0.0288	P	1.8
2	☐	0.000	40.012	165325.49	0.0293	P	0.6
3	☐	1000.000	1064.169	193883.33	0.0351	P	0.7
4	☐	2500.000	2647.122	232627.13	0.0440	P	0.5
5	☐	5000.000	5271.382	299899.01	0.0589	P	1.3
6	☐	10000.000	10108.602	415458.97	0.0862	P	1.3
7	☐	20000.000	19856.255	664503.45	0.1414	P	1.5
8	☐			116728.06	0.0240	P	1.4

$$y = 5.6550E-006 * x + 0.0291$$

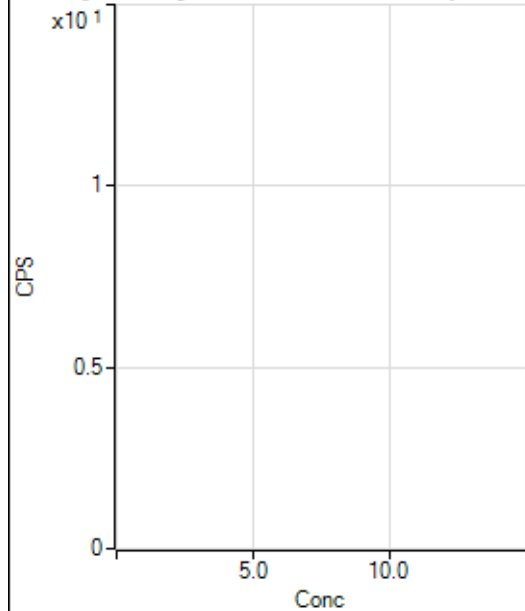
R = 0.9999

DL = 180.1

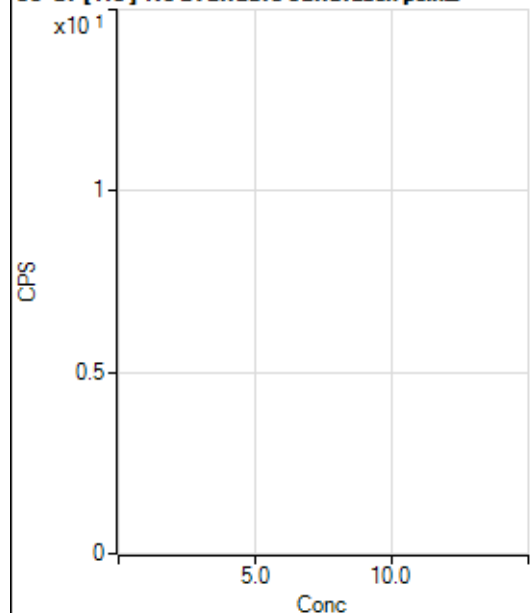
Weight: <None>

Min Conc: 0

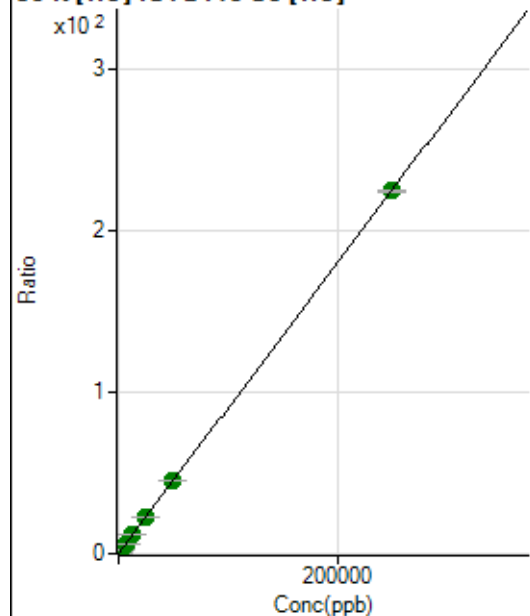
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

39 K [He] ISTD : 45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63262.94	0.1150	P	0.5
2	☐	500.000	554.565	340964.26	0.6131	P	0.2
3	☐	2500.000	2597.039	1296134.34	2.4479	A	0.7
4	☐	6250.000	6565.497	3127331.38	6.0128	A	1.0
5	☐	12500.000	12747.439	5733512.07	11.5660	A	0.5
6	☐	25000.000	25415.137	10803196.58	22.9454	A	0.6
7	☐	50000.000	49840.141	21469488.57	44.8865	A	0.4
8	☐	250000.00	249969.11	111963480.5	224.6627	A	0.5

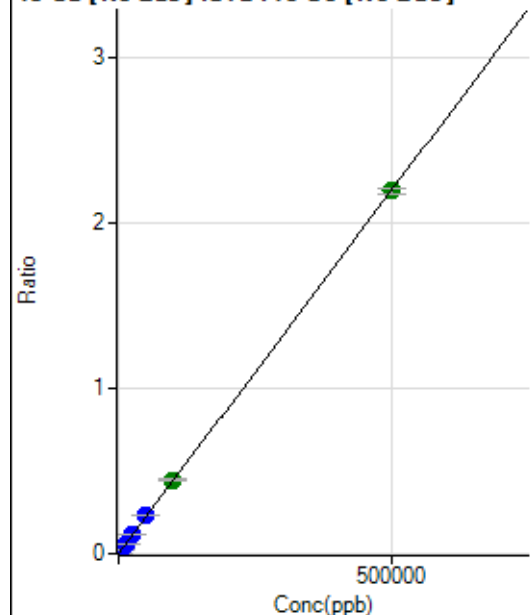
$$y = 8.9830E-004 * x + 0.1150$$

$$R = 1.0000$$

$$DL = 1.99$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD: 45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1255.62	0.0002	P	1.9
2	☐	500.000	558.056	15098.73	0.0027	P	2.4
3	☐	5000.000	5295.080	129679.08	0.0235	P	1.5
4	☐	12500.000	13295.712	309494.18	0.0586	P	1.5
5	☐	25000.000	26440.155	592333.49	0.1163	P	1.9
6	☐	50000.000	52208.211	1105213.39	0.2294	P	2.3
7	☐	100000.00	101389.39	2093501.32	0.4454	A	2.6
8	☐	500000.00	499406.39	10651886.30	2.1929	A	1.9

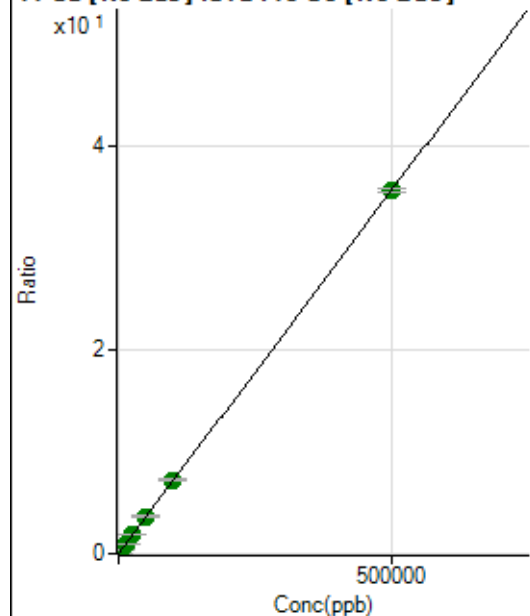
$$y = 4.3905E-006 * x + 2.2588E-004$$

$$R = 1.0000$$

$$DL = 2.9$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD: 45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27473.20	0.0049	P	2.6
2	☐	500.000	557.971	252281.81	0.0447	P	1.5
3	☐	5000.000	5113.684	2041135.32	0.3694	A	0.6
4	☐	12500.000	12903.929	4883785.80	0.9247	A	1.0
5	☐	25000.000	25839.799	9404859.37	1.8467	A	1.7
6	☐	50000.000	51234.042	17614773.90	3.6568	A	1.9
7	☐	100000.00	101393.02	33995377.27	7.2320	A	1.9
8	☐	500000.00	499544.70	172988877.4	35.6113	A	0.9

$$y = 7.1278E-005 * x + 0.0049$$

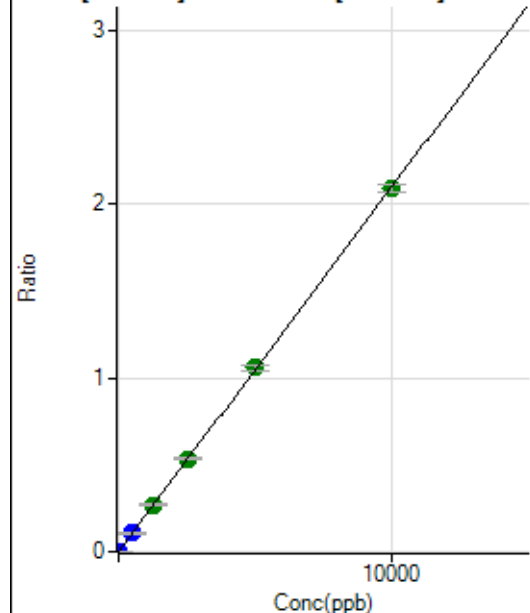
$$R = 1.0000$$

$$DL = 5.439$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1031.16	0.0002	P	9.2
2	☐	5.000	5.340	7356.30	0.0013	P	2.5
3	☐	500.000	500.708	580211.53	0.1050	P	1.5
4	☐	1250.000	1287.184	1424445.12	0.2697	A	2.3
5	☐	2500.000	2555.790	2726499.33	0.5353	A	1.0
6	☐	5000.000	5051.697	5095403.05	1.0580	A	3.0
7	☐	10000.000	9955.521	9799509.51	2.0848	A	2.2
8	☐			3770.51	0.0008	P	13.9

$$y = 2.0939E-004 * x + 1.8560E-004$$

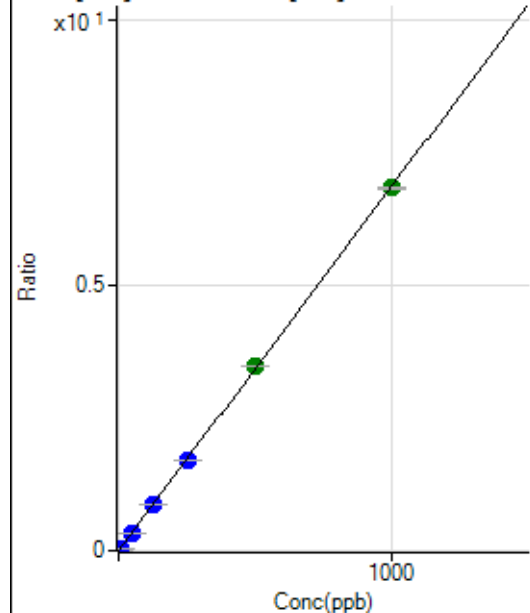
$$R = 1.0000$$

$$DL = 0.2438$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	303.34	0.0006	P	11.8
2	☐	5.000	5.333	20624.18	0.0371	P	1.5
3	☐	50.000	50.001	181666.55	0.3431	P	0.1
4	☐	125.000	126.917	452509.55	0.8700	P	0.6
5	☐	250.000	250.244	850125.92	1.7149	P	0.2
6	☐	500.000	506.427	1633733.47	3.4700	A	0.8
7	☐	1000.000	996.484	3265476.51	6.8272	A	0.7
8	☐			1180.06	0.0024	P	11.6

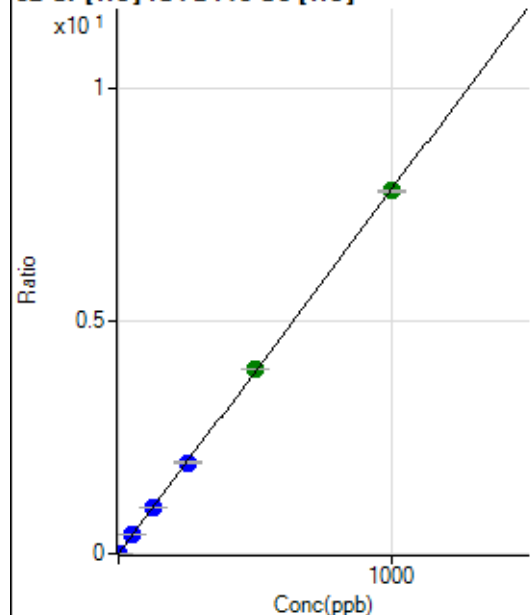
$$y = 0.0069 * x + 5.5126E-004$$

$$R = 1.0000$$

$$DL = 0.02853$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1122.28	0.0020	P	5.0
2	☐	2.000	2.156	10494.84	0.0189	P	3.7
3	☐	50.000	50.567	210140.77	0.3969	P	0.4
4	☐	125.000	127.617	519319.55	0.9985	P	0.7
5	☐	250.000	250.430	970313.43	1.9574	P	0.3
6	☐	500.000	506.549	1863175.82	3.9572	A	0.5
7	☐	1000.000	996.262	3721649.77	7.7810	A	0.7
8	☐			8535.80	0.0171	P	4.5

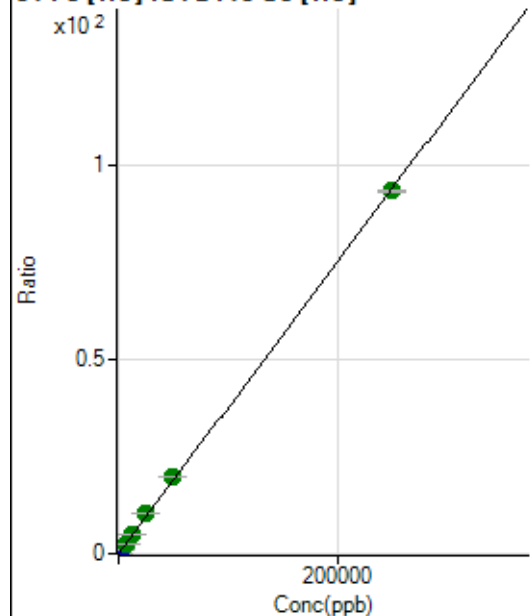
$$y = 0.0078 * x + 0.0020$$

$$R = 1.0000$$

$$DL = 0.03935$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6371.41	0.0116	P	1.7
2	☐	50.000	61.028	19144.50	0.0344	P	1.0
3	☐	2500.000	2794.172	560049.83	1.0577	P	0.7
4	☐	6250.000	6960.243	1361385.22	2.6175	A	1.7
5	☐	12500.000	13709.475	2549992.90	5.1444	A	1.1
6	☐	25000.000	27131.393	4788103.99	10.1696	A	0.3
7	☐	50000.000	53224.599	9536745.55	19.9389	A	0.7
8	☐	250000.00	249060.76	46478051.53	93.2601	A	0.3

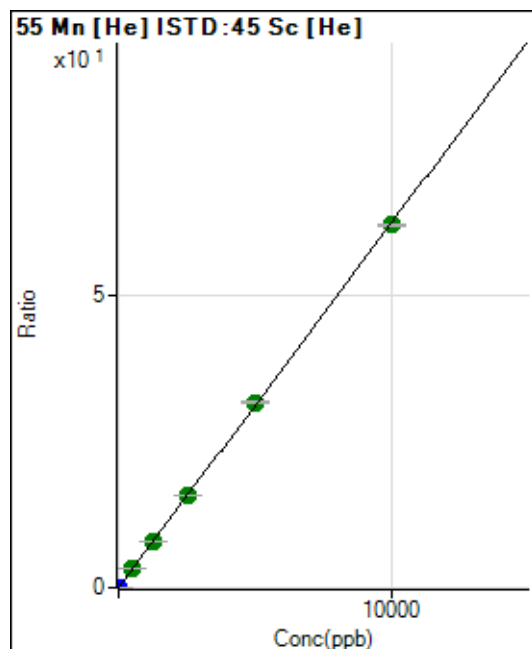
$$y = 3.7440E-004 * x + 0.0116$$

$$R = 0.9999$$

$$DL = 1.542$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2932.54	0.0053	P	8.5
2	☐	1.000	1.105	6801.60	0.0122	P	1.5
3	☐	500.000	501.298	1660753.87	3.1365	A	0.2
4	☐	1250.000	1283.115	4171149.45	8.0197	A	0.7
5	☐	2500.000	2525.913	7823644.05	15.7823	A	0.5
6	☐	5000.000	5084.284	14954305.33	31.7620	A	0.3
7	☐	10000.000	9947.175	29720116.50	62.1359	A	0.6
8	☐			18530.39	0.0372	P	2.4

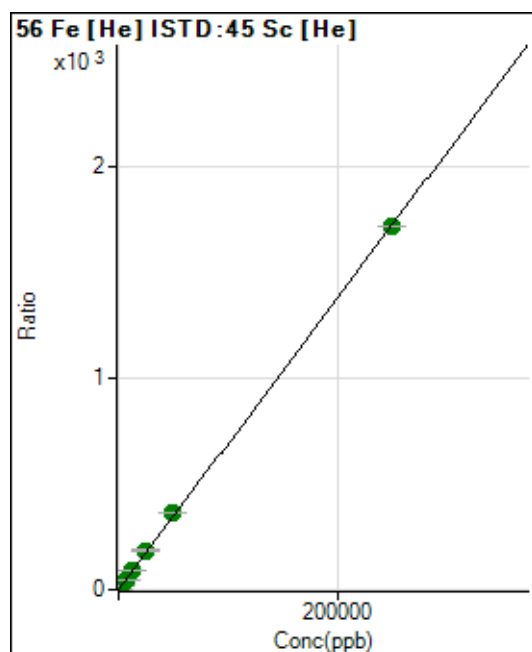
$$y = 0.0062 * x + 0.0053$$

$$R = 0.9999$$

$$DL = 0.2171$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94120.05	0.1711	P	0.7
2	☐	50.000	58.384	318643.24	0.5730	P	0.3
3	☐	2500.000	2689.335	9894304.16	18.6865	A	0.4
4	☐	6250.000	6873.462	24701755.74	47.4932	A	0.6
5	☐	12500.000	13408.862	45847285.99	92.4878	A	0.3
6	☐	25000.000	27014.109	87646760.92	186.1566	A	0.4
7	☐	50000.000	52409.489	172665906.3	360.9976	A	0.5
8	☐	250000.00	249253.76	855310147.2	1,716.222	A	0.2

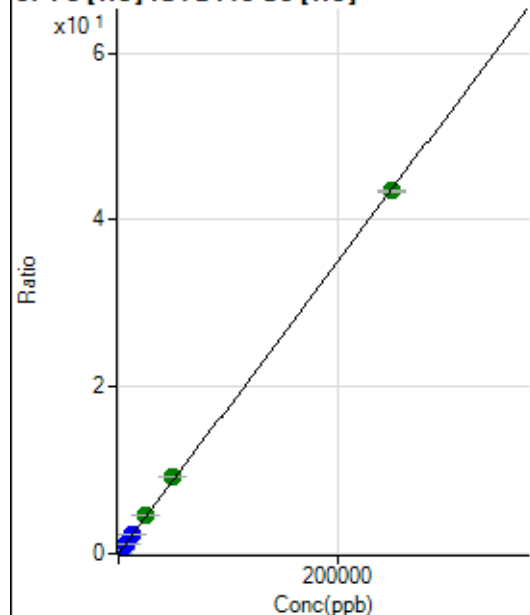
$$y = 0.0069 * x + 0.1711$$

$$R = 0.9999$$

$$DL = 0.5181$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3341.51	0.0061	P	1.8
2	☐	50.000	60.808	9277.37	0.0167	P	1.1
3	☐	2500.000	2741.341	256477.33	0.4844	P	0.6
4	☐	6250.000	6951.049	633960.56	1.2189	P	0.3
5	☐	12500.000	13653.295	1183929.60	2.3883	P	0.1
6	☐	25000.000	26863.077	2209670.26	4.6932	A	1.2
7	☐	50000.000	52622.615	4394601.71	9.1877	A	0.4
8	☐	250000.00	249211.56	21673295.24	43.4888	A	0.7

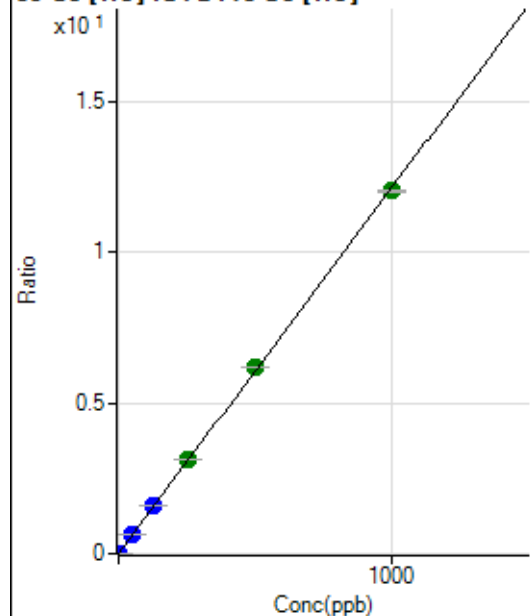
$$y = 1.7448\text{E-}004 * x + 0.0061$$

$$R = 0.9999$$

$$DL = 1.924$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	600.02	0.0011	P	14.0
2	☐	1.000	1.163	8435.77	0.0152	P	1.6
3	☐	50.000	50.941	327245.58	0.6180	P	0.3
4	☐	125.000	129.060	813528.31	1.5641	P	0.4
5	☐	250.000	258.212	1550765.03	3.1283	A	0.5
6	☐	500.000	509.992	2908576.03	6.1776	A	0.6
7	☐	1000.000	992.396	5749227.20	12.0201	A	0.4
8	☐			16634.86	0.0334	P	1.3

$$y = 0.0121 * x + 0.0011$$

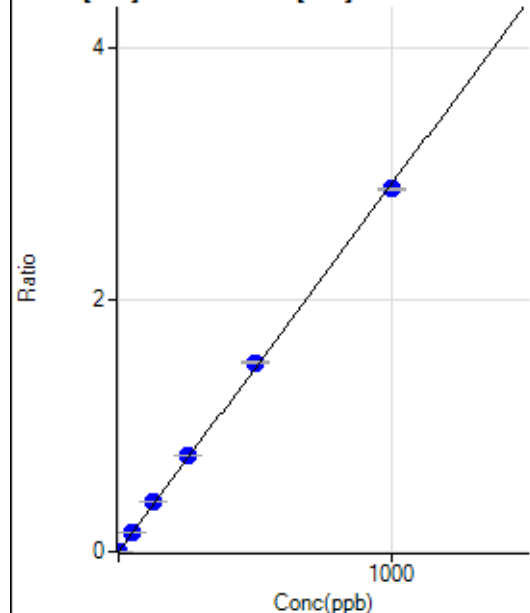
$$R = 0.9999$$

$$DL = 0.03786$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	484.46	0.0009	P	7.7
2	☐	1.000	1.155	2360.21	0.0042	P	3.6
3	☐	50.000	53.489	82989.88	0.1567	P	0.4
4	☐	125.000	134.569	204392.11	0.3930	P	0.5
5	☐	250.000	262.980	380280.63	0.7671	P	0.3
6	☐	500.000	515.256	707273.22	1.5022	P	0.6
7	☐	1000.000	987.757	1377011.91	2.8790	P	0.5
8	☐			7579.76	0.0152	P	3.7

$$y = 0.0029 * x + 8.8041E-004$$

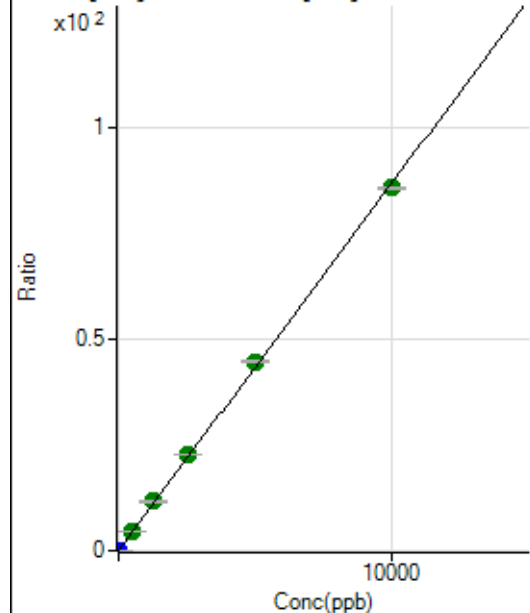
$$R = 0.9997$$

$$DL = 0.07018$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5618.88	0.0102	P	2.7
2	☐	2.000	2.061	15611.57	0.0281	P	0.4
3	☐	500.000	531.090	2442391.75	4.6127	A	0.2
4	☐	1250.000	1336.946	6031398.73	11.5964	A	0.9
5	☐	2500.000	2617.488	11249486.08	22.6937	A	0.6
6	☐	5000.000	5149.019	21013732.74	44.6322	A	0.9
7	☐	10000.000	9883.696	40973261.34	85.6635	A	0.5
8	☐			15539.30	0.0312	P	6.4

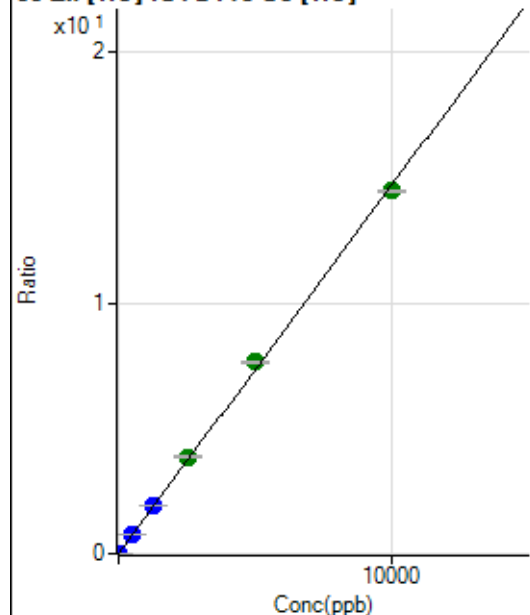
$$y = 0.0087 * x + 0.0102$$

$$R = 0.9997$$

$$DL = 0.09584$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	976.71	0.0018	P	11.7
2	☐	5.000	5.728	5662.24	0.0102	P	2.2
3	☐	500.000	521.882	406472.01	0.7677	P	0.5
4	☐	1250.000	1309.515	1000462.42	1.9236	P	0.6
5	☐	2500.000	2631.238	1915091.38	3.8633	A	0.6
6	☐	5000.000	5209.768	3600539.08	7.6474	A	0.9
7	☐	10000.000	9853.772	6917671.01	14.4627	A	0.4
8	☐			11256.54	0.0226	P	1.5

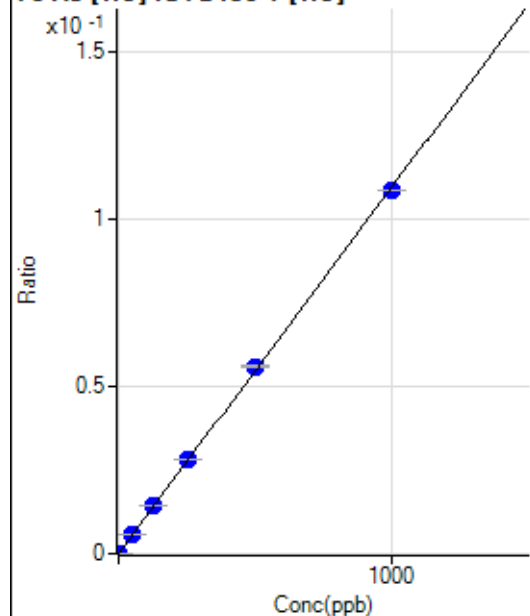
$$y = 0.0015 * x + 0.0018$$

$$R = 0.9996$$

$$DL = 0.4255$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	18.6
2	☐	1.000	1.042	651.13	0.0001	P	2.9
3	☐	50.000	52.601	28386.02	0.0058	P	1.5
4	☐	125.000	132.118	70083.13	0.0145	P	0.7
5	☐	250.000	258.031	131089.25	0.0283	P	1.1
6	☐	500.000	511.809	249904.31	0.0561	P	1.1
7	☐	1000.000	991.068	490424.62	0.1086	P	0.1
8	☐			343.34	0.0001	P	2.8

$$y = 1.0958E-004 * x + 1.4380E-005$$

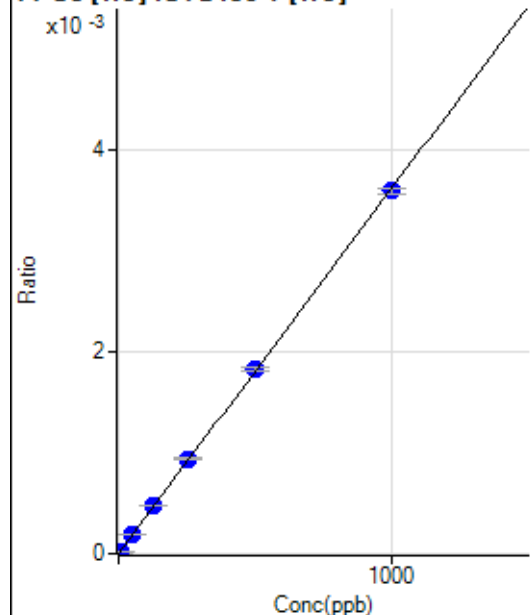
$$R = 0.9998$$

$$DL = 0.07326$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.
2	☐	5.000	5.285	101.11	0.0000	P	1.7
3	☐	50.000	52.395	933.37	0.0002	P	3.3
4	☐	125.000	132.041	2309.10	0.0005	P	1.6
5	☐	250.000	258.992	4336.23	0.0009	P	2.5
6	☐	500.000	505.898	8137.85	0.0018	P	2.6
7	☐	1000.000	993.802	16200.05	0.0036	P	1.3
8	☐			5.56	0.0000	P	91.7

$$y = 3.6097E-006 * x + 8.8198E-007$$

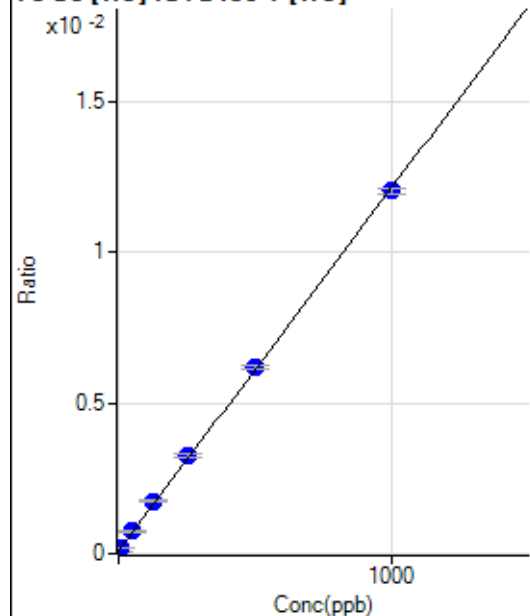
R = 0.9999

DL = 0.8403

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	451.12	0.0001	P	2.6
2	☐	5.000	6.503	852.26	0.0002	P	4.5
3	☐	50.000	53.522	3609.36	0.0007	P	4.9
4	☐	125.000	135.643	8336.88	0.0017	P	3.7
5	☐	250.000	261.875	15036.61	0.0032	P	2.7
6	☐	500.000	507.309	27624.69	0.0062	P	1.8
7	☐	1000.000	991.863	54354.84	0.0120	P	1.7
8	☐			355.56	0.0001	P	5.5

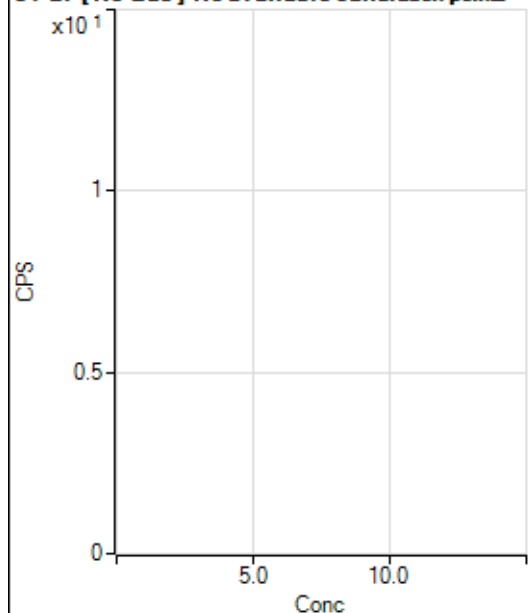
$$y = 1.2047E-005 * x + 8.9900E-005$$

R = 0.9999

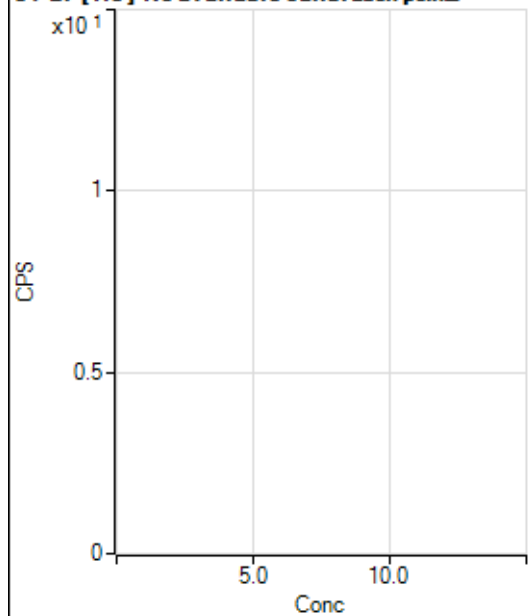
DL = 0.5781

Weight: <None>

Min Conc: 0

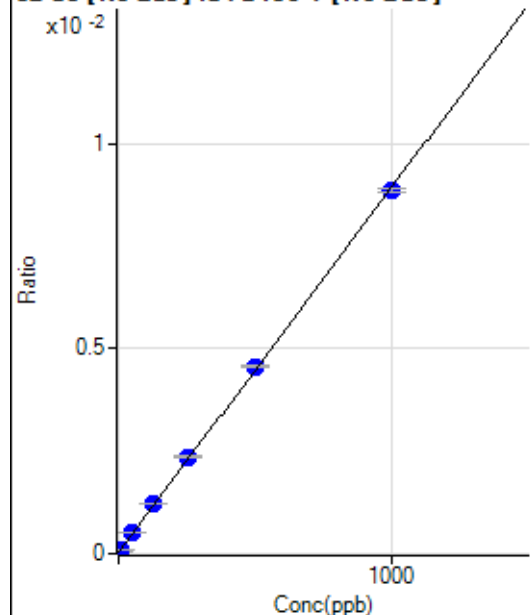
81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15502.68		P	0.3
2	☐			16047.72		P	4.2
3	☐			15860.82		P	2.6
4	☐			15294.70		P	1.1
5	☐			14144.66		P	2.2
6	☐			12683.32		P	1.7
7	☐			12383.05		P	0.6
8	☐			13390.62		P	2.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			148.89		P	28.3
2	☐			165.56		P	23.3
3	☐			141.11		P	19.1
4	☐			150.00		P	8.0
5	☐			117.78		P	12.8
6	☐			107.78		P	26.7
7	☐			102.22		P	11.5
8	☐			165.56		P	1.2

82 Se [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	521.01	0.0000	P	10.4
2	☐	5.000	5.533	1377.25	0.0001	P	1.6
3	☐	50.000	53.848	8645.55	0.0005	P	2.0
4	☐	125.000	134.750	20476.06	0.0012	P	1.1
5	☐	250.000	262.547	38380.28	0.0024	P	0.4
6	☐	500.000	509.331	70987.00	0.0046	P	1.3
7	☐	1000.000	990.784	133680.44	0.0088	P	1.0
8	☐			602.00	0.0000	P	9.0

$$y = 8.8934E-006 * x + 3.0420E-005$$

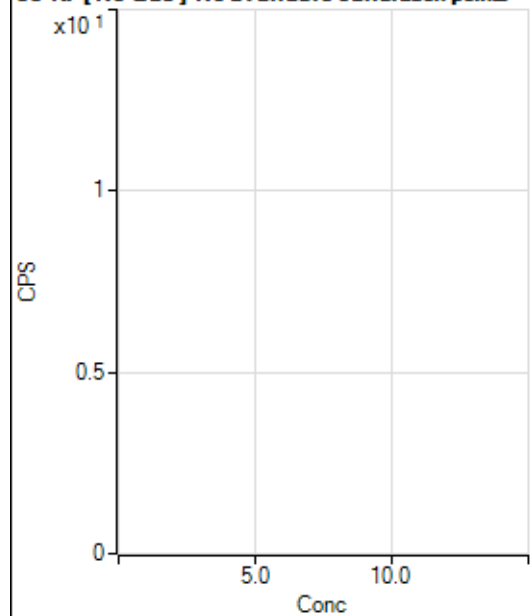
$$R = 0.9998$$

$$DL = 1.07$$

Weight: <None>

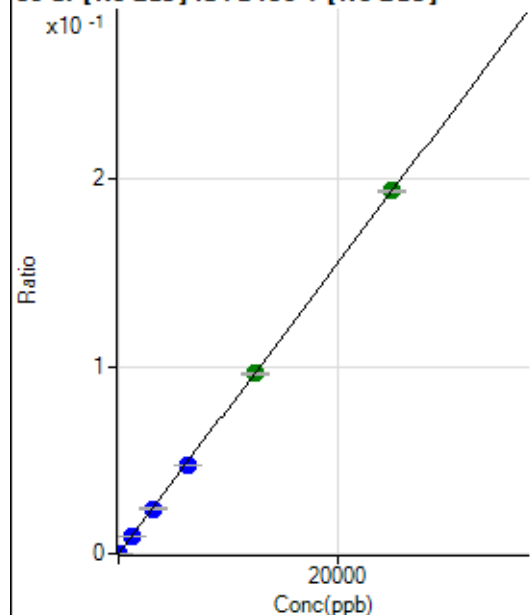
Min Conc: 0

83 Kr [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			188.89		P	16.8
2	☐			194.45		P	2.6
3	☐			156.67		P	20.3
4	☐			155.56		P	8.1
5	☐			170.00		P	23.1
6	☐			153.34		P	22.1
7	☐			155.56		P	8.7
8	☐			184.45		P	30.8

86 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	543.35	0.0000	P	3.3
2	☐	1.000	26.548	4093.94	0.0002	P	2.1
3	☐	1250.000	1232.957	162121.27	0.0096	P	1.6
4	☐	3125.000	3110.694	400683.51	0.0240	P	1.7
5	☐	6250.000	6153.315	771308.94	0.0475	P	0.4
6	☐	12500.000	12426.920	1493839.66	0.0960	A	1.8
7	☐	25000.000	25063.351	2925878.64	0.1935	A	0.9
8	☐			9404.19	0.0006	P	1.9

$$y = 7.7201\text{E-}006 * x + 3.1745\text{E-}005$$

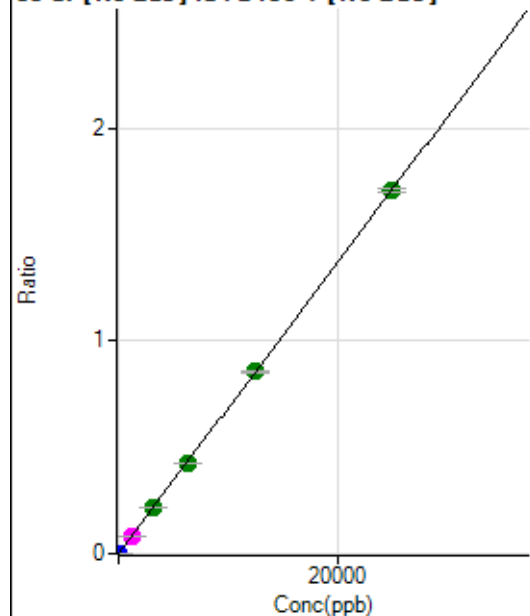
$$R = 1.0000$$

$$DL = 0.4044$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2347.99	0.0001	P	3.0
2	☐	1.000	26.255	33365.64	0.0019	P	1.1
3	☐	1250.000	1247.188	1447506.14	0.0853	M	0.2
4	☐	3125.000	3173.315	3611170.99	0.2167	A	2.0
5	☐	6250.000	6269.012	6944928.16	0.4280	A	0.5
6	☐	12500.000	12518.028	13301165.91	0.8545	A	1.9
7	☐	25000.000	24980.333	25779451.00	1.7051	A	1.0
8	☐			81528.73	0.0053	P	1.5

$$y = 6.8252\text{E-}005 * x + 1.3720\text{E-}004$$

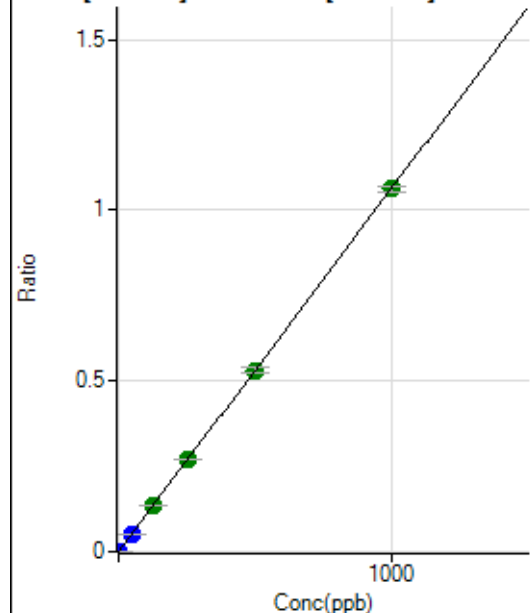
$$R = 1.0000$$

$$DL = 0.1822$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1904.59	0.0001	P	6.6
2	☐	1.000	0.986	20063.78	0.0012	P	1.5
3	☐	50.000	49.599	897668.80	0.0529	P	1.3
4	☐	125.000	127.655	2264830.64	0.1359	A	1.7
5	☐	250.000	253.196	4372624.45	0.2695	A	0.2
6	☐	500.000	500.048	8282093.28	0.5321	A	2.5
7	☐	1000.000	998.865	16068176.29	1.0628	A	1.4
8	☐			13764.34	0.0009	P	5.5

$$y = 0.0011 * x + 1.1131E-004$$

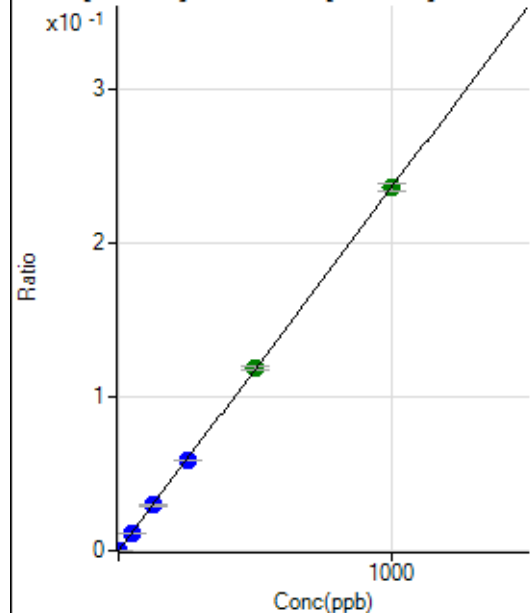
$$R = 1.0000$$

$$DL = 0.02056$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	343.34	0.0000	P	2.9
2	☐	1.000	1.014	4481.83	0.0003	P	3.7
3	☐	50.000	49.712	199372.87	0.0117	P	1.5
4	☐	125.000	125.372	493042.09	0.0296	P	1.8
5	☐	250.000	249.027	953315.86	0.0588	P	1.1
6	☐	500.000	501.689	1842048.58	0.1183	A	2.4
7	☐	1000.000	999.367	3563856.68	0.2357	A	2.0
8	☐			2982.56	0.0002	P	9.1

$$y = 2.3585E-004 * x + 2.0058E-005$$

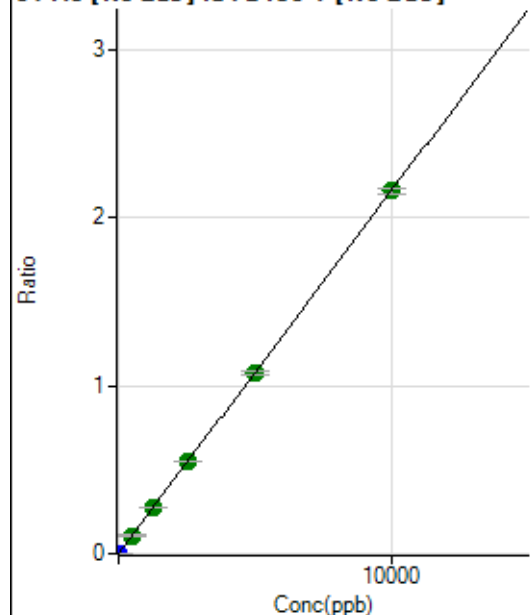
$$R = 1.0000$$

$$DL = 0.007503$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2956.99	0.0002	P	4.9
2	☐	5.000	6.018	25460.00	0.0015	P	3.1
3	☐	500.000	502.232	1843682.99	0.1086	A	1.9
4	☐	1250.000	1275.847	4592909.65	0.2756	A	2.0
5	☐	2500.000	2540.400	8902848.34	0.5487	A	0.3
6	☐	5000.000	4983.779	16752602.66	1.0762	A	1.6
7	☐	10000.000	9994.667	32628420.62	2.1581	A	1.7
8	☐			15790.87	0.0010	P	8.9

$$y = 2.1591E-004 * x + 1.7281E-004$$

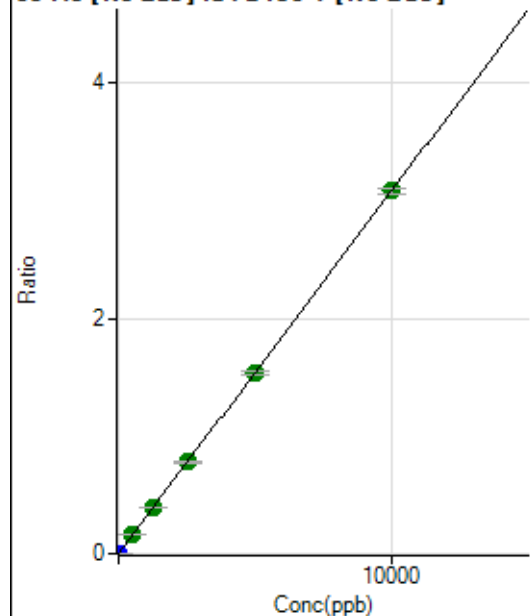
$$R = 1.0000$$

$$DL = 0.1168$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4159.52	0.0002	P	4.3
2	☐	5.000	5.191	31903.61	0.0018	P	1.1
3	☐	500.000	506.243	2655704.46	0.1564	A	1.2
4	☐	1250.000	1270.391	6535403.09	0.3922	A	0.9
5	☐	2500.000	2527.315	12656292.03	0.7800	A	1.0
6	☐	5000.000	4977.521	23908081.59	1.5360	A	2.1
7	☐	10000.000	10001.549	46657160.97	3.0860	A	1.8
8	☐			18400.69	0.0012	P	13.5

$$y = 3.0853E-004 * x + 2.4308E-004$$

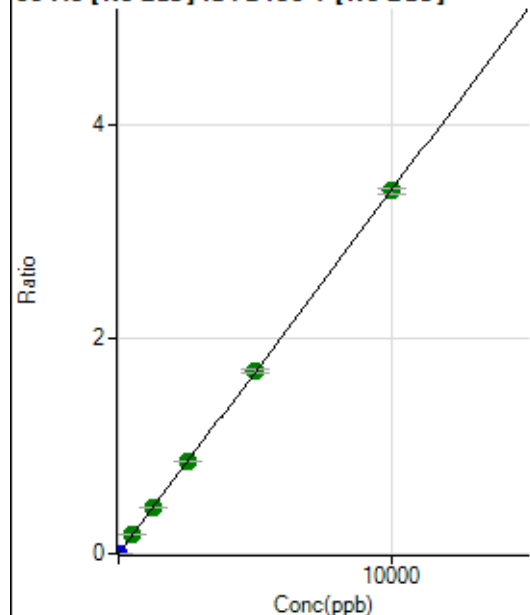
$$R = 1.0000$$

$$DL = 0.1005$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4427.38	0.0003	P	3.3
2	☐	5.000	5.349	35805.94	0.0021	P	0.8
3	☐	500.000	510.993	2942244.82	0.1733	A	0.9
4	☐	1250.000	1270.122	7171918.16	0.4304	A	1.5
5	☐	2500.000	2526.797	13889568.41	0.8560	A	0.6
6	☐	5000.000	5016.627	26450416.00	1.6992	A	1.7
7	☐	10000.000	9981.922	51114171.46	3.3808	A	1.3
8	☐			29334.04	0.0019	P	8.7

$$y = 3.3867E-004 * x + 2.5871E-004$$

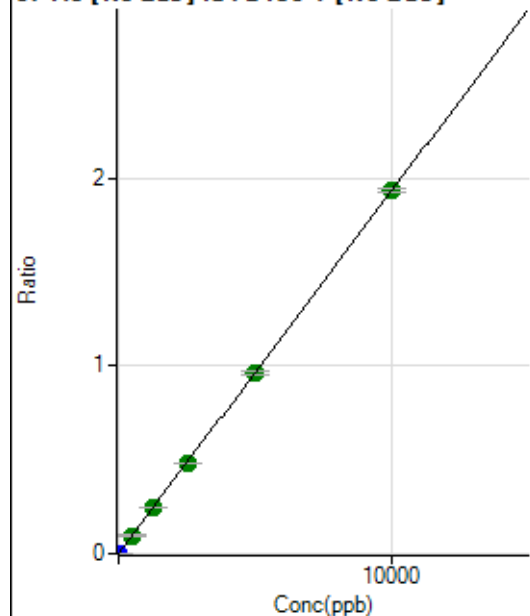
$$R = 1.0000$$

$$DL = 0.07512$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2602.48	0.0002	P	1.5
2	☐	5.000	5.235	20122.81	0.0012	P	1.3
3	☐	500.000	502.595	1650962.79	0.0973	A	1.1
4	☐	1250.000	1274.951	4107141.22	0.2465	A	0.8
5	☐	2500.000	2513.557	7882059.74	0.4858	A	0.3
6	☐	5000.000	4980.763	14981113.94	0.9624	A	1.7
7	☐	10000.000	10002.981	29220891.51	1.9327	A	1.0
8	☐			11573.58	0.0008	P	11.7

$$y = 1.9320E-004 * x + 1.5205E-004$$

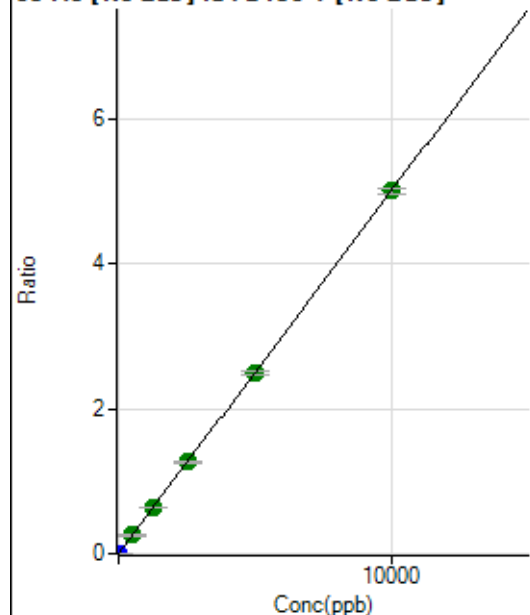
$$R = 1.0000$$

$$DL = 0.0357$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6612.67	0.0004	P	4.0
2	☐	5.000	5.152	51258.44	0.0030	P	0.9
3	☐	500.000	503.551	4282503.10	0.2523	A	0.8
4	☐	1250.000	1268.841	10582504.29	0.6351	A	0.8
5	☐	2500.000	2521.476	20471597.89	1.2616	A	0.6
6	☐	5000.000	4993.117	38883113.03	2.4980	A	1.9
7	☐	10000.000	9995.540	75597922.76	5.0002	A	1.3
8	☐			29030.28	0.0019	P	13.4

$$y = 5.0020\text{E-}004 * x + 3.8643\text{E-}004$$

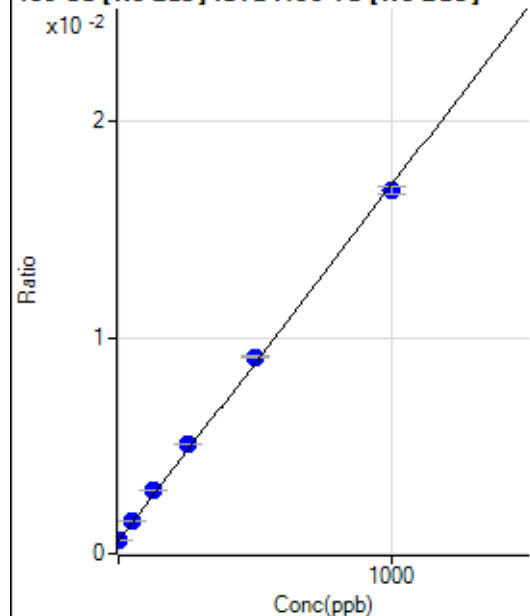
$$R = 1.0000$$

$$DL = 0.09198$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9219.67	0.0006	P	1.3
2	☐	1.000	1.109	9632.16	0.0006	P	4.3
3	☐	50.000	56.765	24065.58	0.0015	P	2.8
4	☐	125.000	140.803	45973.55	0.0029	P	1.3
5	☐	250.000	273.088	79672.28	0.0051	P	0.7
6	☐	500.000	516.522	139429.82	0.0091	P	1.2
7	☐	1000.000	983.653	254900.12	0.0168	P	2.2
8	☐			8082.32	0.0005	P	1.7

$$y = 1.6444\text{E-}005 * x + 5.9498\text{E-}004$$

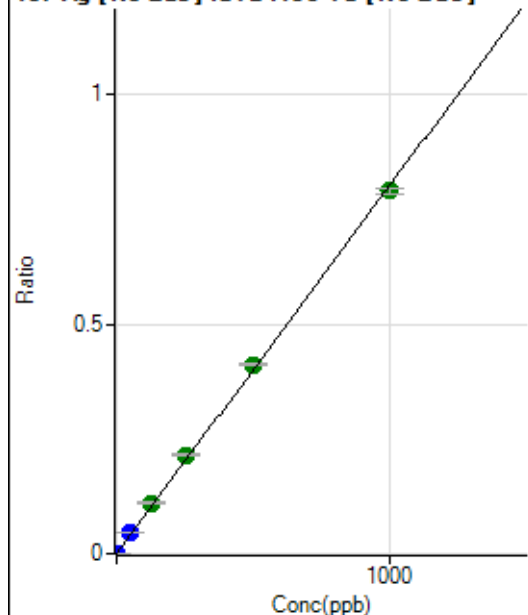
$$R = 0.9994$$

$$DL = 1.443$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1073.38	0.0001	P	5.0
2	☐	1.000	1.156	15617.37	0.0010	P	1.7
3	☐	50.000	55.363	698783.96	0.0444	P	0.8
4	☐	125.000	138.308	1749667.74	0.1108	A	1.8
5	☐	250.000	268.489	3367537.21	0.2150	A	0.5
6	☐	500.000	514.367	6316630.39	0.4117	A	1.0
7	☐	1000.000	986.262	11999434.82	0.7894	A	1.4
8	☐			4257.34	0.0003	P	15.0

$$y = 8.0036E-004 * x + 6.9299E-005$$

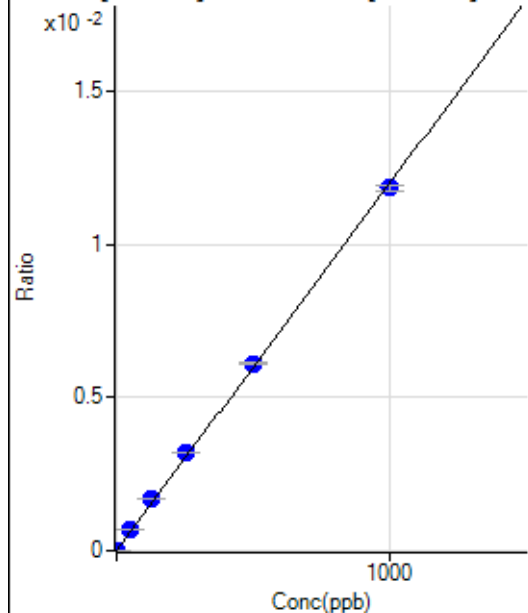
$$R = 0.9996$$

$$DL = 0.01287$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	60.4
2	☐	1.000	1.120	244.45	0.0000	P	9.4
3	☐	50.000	56.861	10772.96	0.0007	P	1.9
4	☐	125.000	140.776	26709.06	0.0017	P	1.6
5	☐	250.000	266.370	50087.19	0.0032	P	1.2
6	☐	500.000	510.487	93966.07	0.0061	P	1.9
7	☐	1000.000	988.349	180234.66	0.0119	P	1.6
8	☐			131.11	0.0000	P	7.4

$$y = 1.1995E-005 * x + 2.1402E-006$$

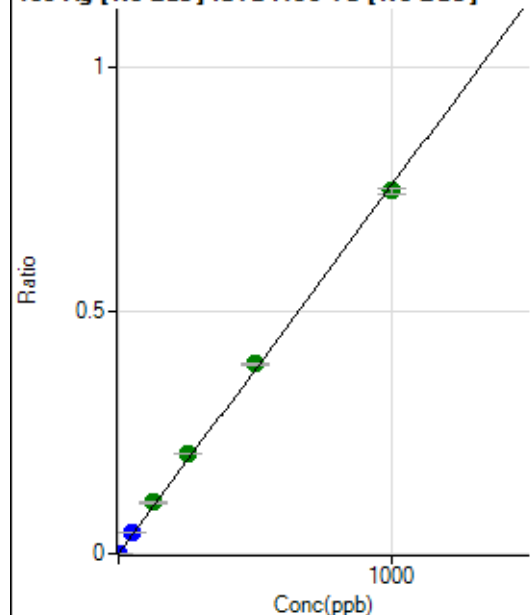
$$R = 0.9997$$

$$DL = 0.3234$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	982.27	0.0001	P	7.4
2	☐	1.000	1.141	14575.19	0.0009	P	0.6
3	☐	50.000	55.187	659523.45	0.0419	P	0.9
4	☐	125.000	138.835	1663040.20	0.1053	A	1.0
5	☐	250.000	270.486	3212335.19	0.2050	A	0.9
6	☐	500.000	515.065	5989164.56	0.3904	A	1.5
7	☐	1000.000	985.357	11351536.77	0.7468	A	1.3
8	☐			4090.63	0.0003	P	13.4

$$y = 7.5784\text{E-}004 * x + 6.3389\text{E-}005$$

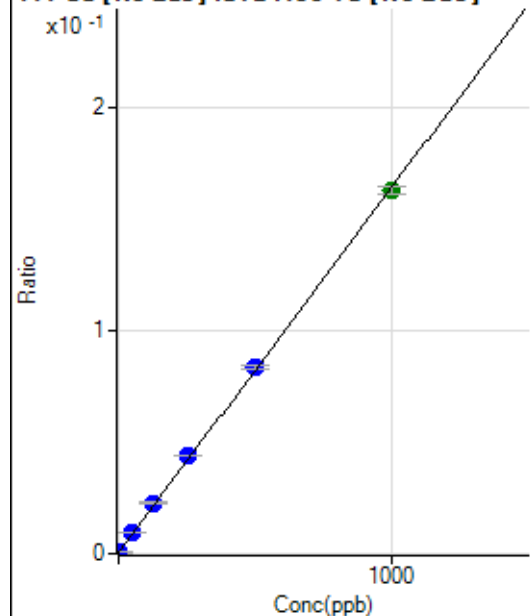
$$R = 0.9996$$

$$DL = 0.0186$$

Weight: <None>

Min Conc: 0

111 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6636.00	0.0004	P	1.0
2	☐	1.000	1.134	9639.54	0.0006	P	2.6
3	☐	50.000	54.938	148302.20	0.0094	P	0.9
4	☐	125.000	136.837	360492.88	0.0228	P	1.5
5	☐	250.000	264.795	685548.51	0.0438	P	0.9
6	☐	500.000	506.725	1278629.08	0.0834	P	1.9
7	☐	1000.000	991.212	2471994.00	0.1626	A	2.2
8	☐			6498.11	0.0004	P	2.8

$$y = 1.6364\text{E-}004 * x + 4.2823\text{E-}004$$

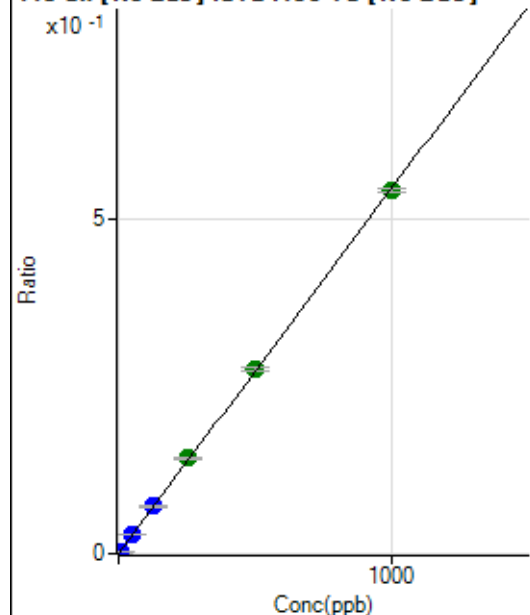
$$R = 0.9998$$

$$DL = 0.07561$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1422.31	0.0001	P	5.9
2	☐	5.000	5.625	49617.27	0.0032	P	2.5
3	☐	50.000	52.261	450295.25	0.0286	P	0.8
4	☐	125.000	129.618	1118256.21	0.0708	P	1.8
5	☐	250.000	261.326	2234501.79	0.1426	A	1.1
6	☐	500.000	505.607	4232004.49	0.2759	A	2.2
7	☐	1000.000	993.671	8240257.03	0.5421	A	1.1
8	☐			4464.07	0.0003	P	9.0

$$y = 5.4546E-004 * x + 9.1824E-005$$

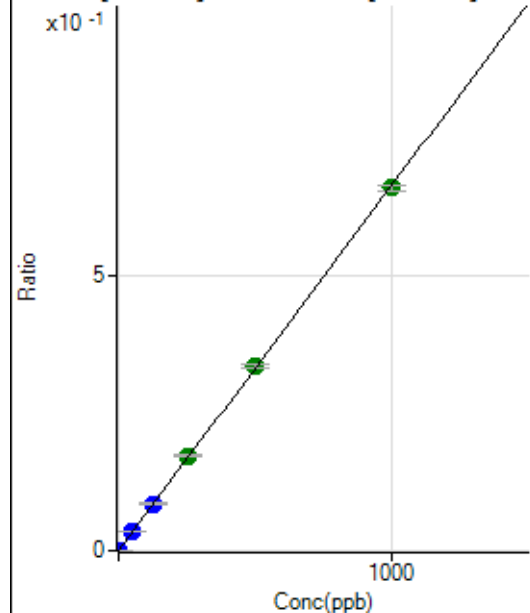
$$R = 0.9999$$

$$DL = 0.02994$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	870.03	0.0001	P	5.8
2	☐	2.000	2.212	23907.74	0.0015	P	1.1
3	☐	50.000	51.651	540107.57	0.0343	P	1.0
4	☐	125.000	128.402	1345737.27	0.0852	P	0.9
5	☐	250.000	260.136	2702932.56	0.1725	A	1.2
6	☐	500.000	506.323	5150586.03	0.3358	A	2.2
7	☐	1000.000	993.796	10016152.49	0.6590	A	1.8
8	☐			9955.75	0.0007	P	4.8

$$y = 6.6303E-004 * x + 5.6171E-005$$

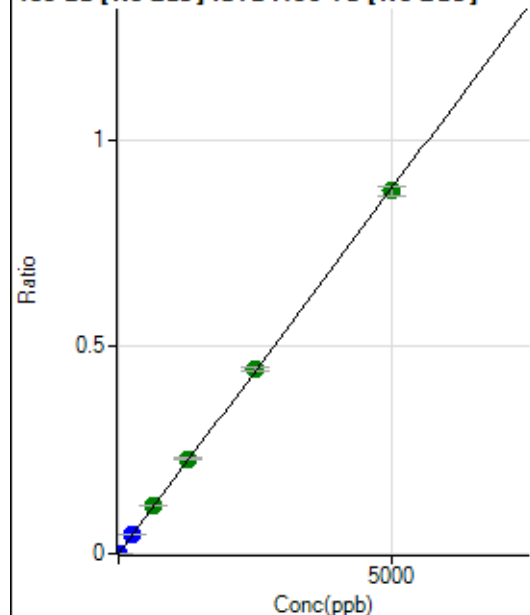
$$R = 0.9999$$

$$DL = 0.01464$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1145.62	0.0001	P	10.4
2	☐	10.000	10.719	30856.79	0.0020	P	1.6
3	☐	250.000	253.234	704591.72	0.0447	P	0.9
4	☐	625.000	656.629	1831014.69	0.1159	A	1.5
5	☐	1250.000	1296.208	3583570.29	0.2287	A	1.5
6	☐	2500.000	2529.251	6845796.36	0.4463	A	2.3
7	☐	5000.000	4969.706	13326839.24	0.8768	A	2.3
8	☐			8350.32	0.0006	P	7.1

$$y = 1.7642\text{E-}004 * x + 7.3996\text{E-}005$$

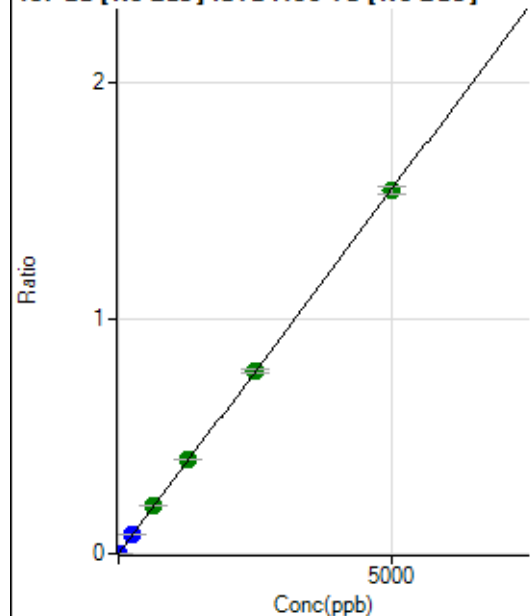
$$R = 0.9999$$

$$DL = 0.1304$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2021.28	0.0001	P	7.3
2	☐	10.000	10.598	53538.06	0.0034	P	2.0
3	☐	250.000	252.113	1230309.49	0.0781	P	1.1
4	☐	625.000	656.688	3211772.28	0.2033	A	0.5
5	☐	1250.000	1287.862	6244539.49	0.3986	A	1.0
6	☐	2500.000	2509.415	11913131.77	0.7766	A	1.9
7	☐	5000.000	4981.759	23430267.71	1.5415	A	2.0
8	☐			14638.75	0.0010	P	4.7

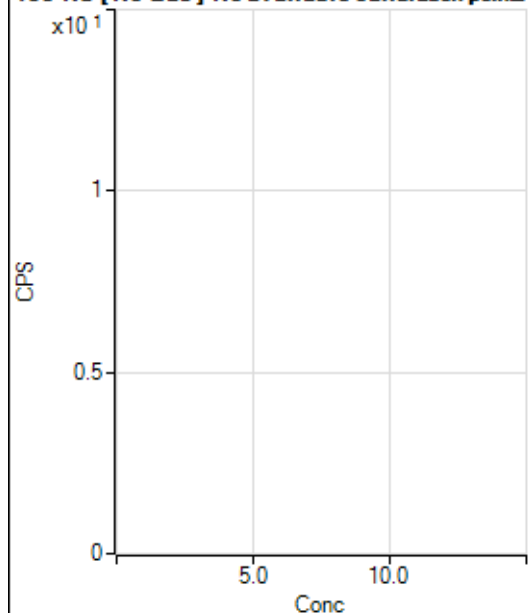
$$y = 3.0941\text{E-}004 * x + 1.3052\text{E-}004$$

$$R = 1.0000$$

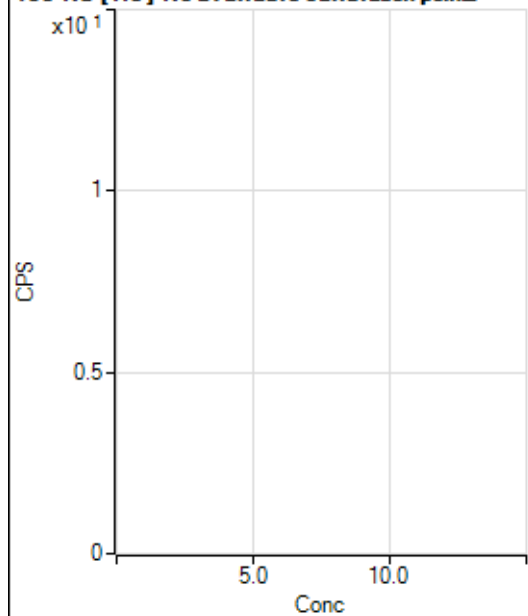
$$DL = 0.09294$$

Weight: <None>

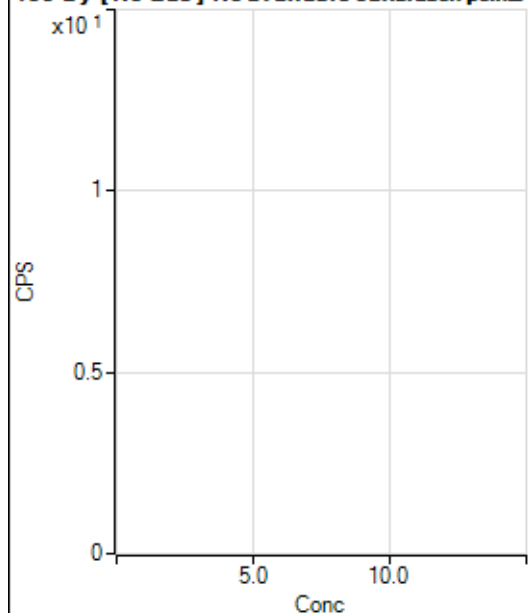
Min Conc: 0

150 Nd [No Gas] No available calibration points

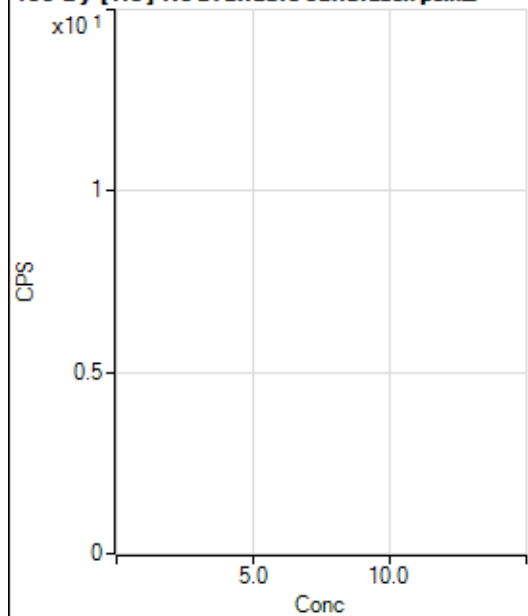
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			8.89		P	21.6
3	☐			60.00		P	33.8
4	☐			142.23		P	19.1
5	☐			300.01		P	18.9
6	☐			503.35		P	16.7
7	☐			993.38		P	6.2
8	☐			236.67		P	11.5

150 Nd [He] No available calibration points

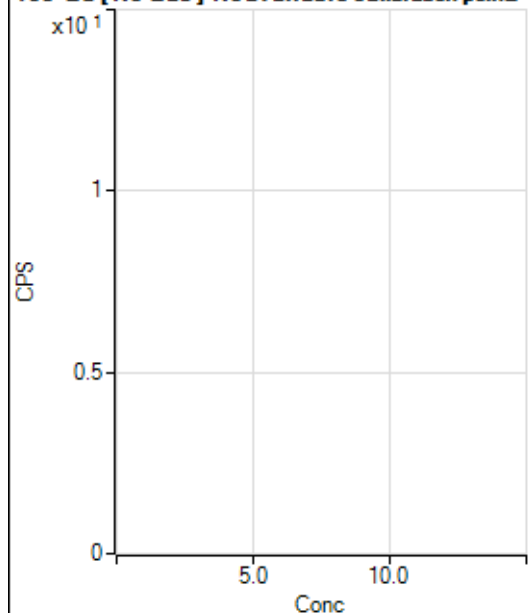
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			6.67		P	86.6
3	☐			22.22		P	22.9
4	☐			42.22		P	16.4
5	☐			87.78		P	26.7
6	☐			142.23		P	15.6
7	☐			291.12		P	8.7
8	☐			130.00		P	7.7

156 Dy [No Gas] No available calibration points

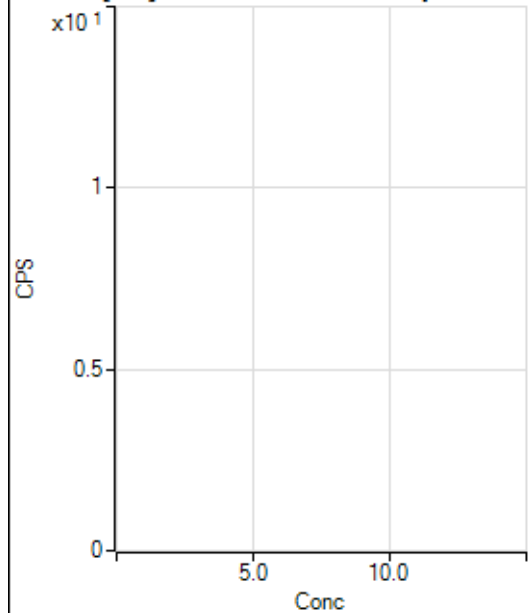
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			14.44		P	53.3
3	☐			34.44		P	5.6
4	☐			58.89		P	6.5
5	☐			112.22		P	16.4
6	☐			222.23		P	17.1
7	☐			380.01		P	7.9
8	☐			416.68		P	2.8

156 Dy [He] No available calibration points

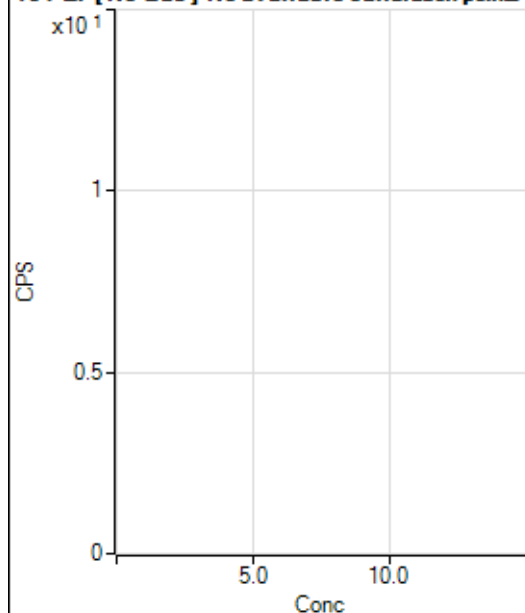
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐			7.78		P	99.0
3	☐			53.33		P	16.5
4	☐			131.12		P	10.3
5	☐			225.56		P	11.9
6	☐			387.79		P	5.9
7	☐			820.03		P	3.3
8	☐			334.45		P	3.2

160 Gd [No Gas] No available calibration poin...

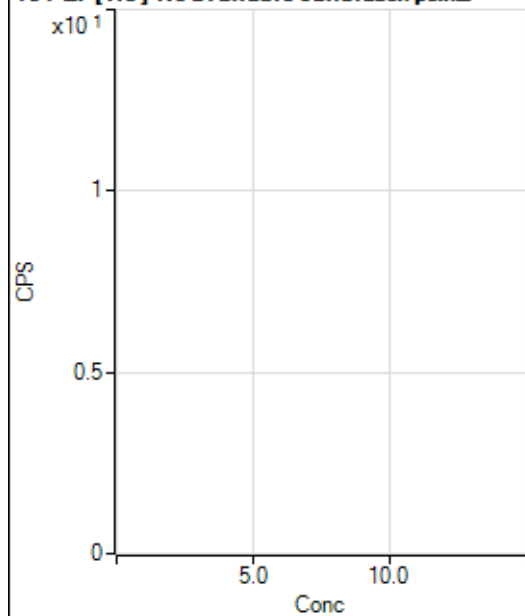
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			74.44		P	29.8
2	☐			70.00		P	21.8
3	☐			71.11		P	10.8
4	☐			107.78		P	12.9
5	☐			135.56		P	5.1
6	☐			191.12		P	14.6
7	☐			275.56		P	6.1
8	☐			434.46		P	15.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			606.68		P	7.3
2	☐			628.91		P	2.7
3	☐			556.68		P	16.5
4	☐			611.13		P	10.9
5	☐			587.80		P	8.9
6	☐			615.58		P	5.0
7	☐			674.47		P	7.0
8	☐			855.59		P	7.7

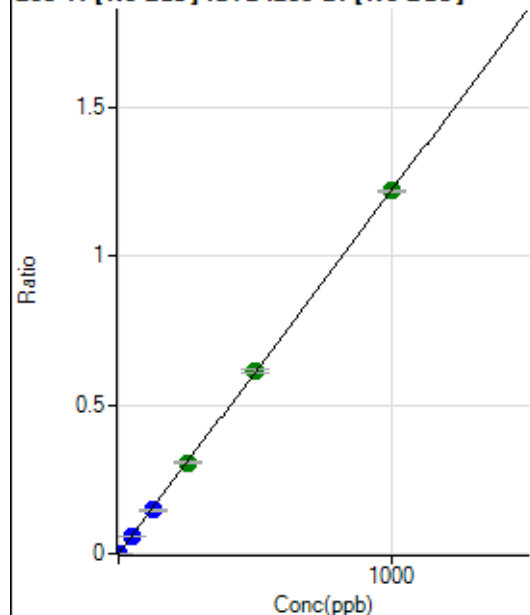
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	27.8
2	☐			92.22		P	15.0
3	☐			87.78		P	13.3
4	☐			106.67		P	8.3
5	☐			165.56		P	6.5
6	☐			218.89		P	18.2
7	☐			357.79		P	1.1
8	☐			517.79		P	12.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	33.5
2	☐			50.00		P	30.5
3	☐			75.56		P	11.1
4	☐			63.33		P	31.6
5	☐			83.33		P	6.9
6	☐			146.67		P	18.0
7	☐			253.34		P	8.0
8	☐			331.12		P	2.5

203 TI [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	978.94	0.0001	P	5.7
2	☐	1.000	0.997	13095.28	0.0013	P	2.0
3	☐	50.000	47.520	582734.85	0.0580	P	1.4
4	☐	125.000	119.208	1490879.70	0.1455	P	1.6
5	☐	250.000	251.502	3074064.75	0.3068	A	1.1
6	☐	500.000	502.550	6013335.19	0.6129	A	2.1
7	☐	1000.000	999.198	11719045.52	1.2186	A	0.8
8	☐			3691.66	0.0004	P	15.7

$$y = 0.0012 * x + 9.9958E-005$$

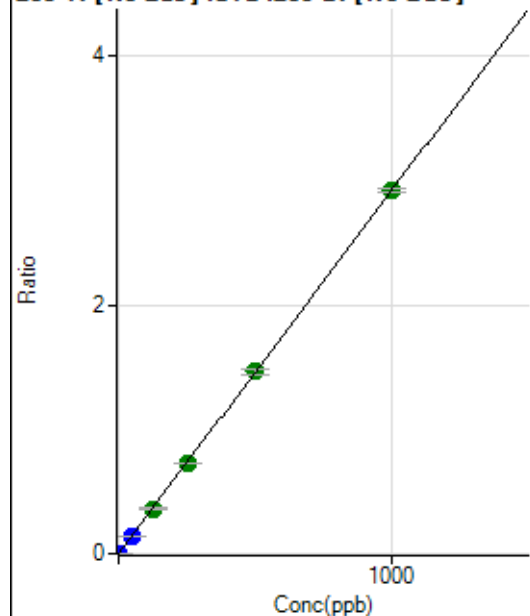
$$R = 1.0000$$

$$DL = 0.01407$$

Weight: <None>

Min Conc: 0

205 TI [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2430.25	0.0002	P	1.0
2	☐	1.000	0.986	31091.03	0.0031	P	1.2
3	☐	50.000	46.811	1372911.25	0.1368	P	1.1
4	☐	125.000	124.223	3715279.53	0.3625	A	0.7
5	☐	250.000	248.953	7276763.29	0.7262	A	0.6
6	☐	500.000	501.644	14354077.01	1.4631	A	2.7
7	☐	1000.000	999.696	28038753.75	2.9156	A	1.2
8	☐			8727.36	0.0010	P	12.4

$$y = 0.0029 * x + 2.4823E-004$$

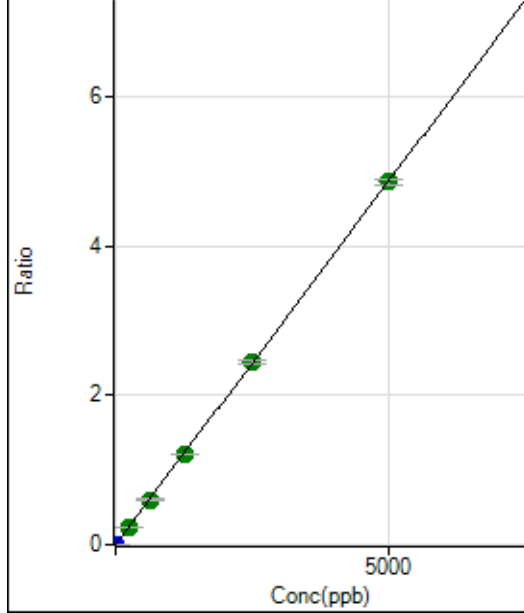
$$R = 1.0000$$

$$DL = 0.002587$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4085.10	0.0004	P	0.5
2	☐	1.000	0.994	13785.97	0.0014	P	1.1
3	☐	250.000	246.136	2409132.11	0.2400	A	2.0
4	☐	625.000	620.888	6198100.39	0.6048	A	1.2
5	☐	1250.000	1252.558	12219834.96	1.2196	A	0.7
6	☐	2500.000	2511.491	23987347.14	2.4450	A	1.9
7	☐	5000.000	4994.322	46752575.41	4.8616	A	1.7
8	☐			23310.16	0.0027	P	6.6

$$y = 9.7334E-004 * x + 4.1725E-004$$

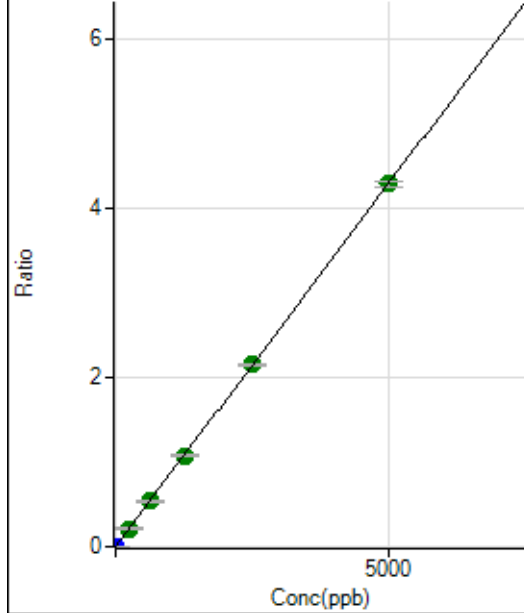
$$R = 1.0000$$

$$DL = 0.006979$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3547.16	0.0004	P	1.0
2	☐	1.000	0.985	12028.73	0.0012	P	1.1
3	☐	250.000	248.436	2146580.70	0.2138	A	2.4
4	☐	625.000	627.892	5533332.14	0.5399	A	2.4
5	☐	1250.000	1250.442	10769243.45	1.0748	A	1.3
6	☐	2500.000	2504.482	21117348.57	2.1524	A	1.8
7	☐	5000.000	4997.365	41298997.44	4.2945	A	1.8
8	☐			19929.24	0.0023	P	8.2

$$y = 8.5928E-004 * x + 3.6227E-004$$

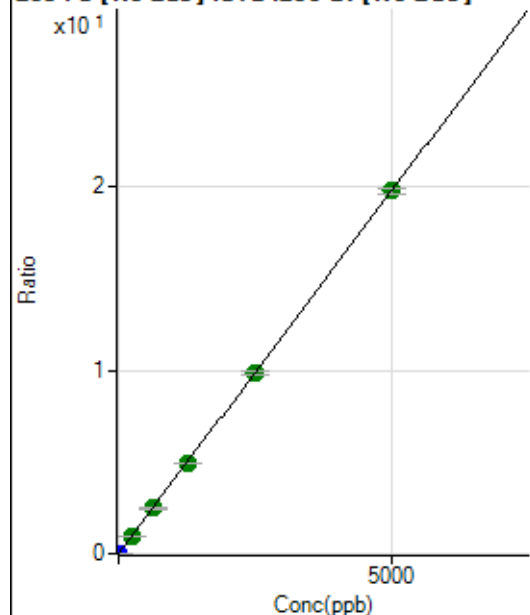
$$R = 1.0000$$

$$DL = 0.01225$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16351.81	0.0017	P	1.6
2	☐	1.000	0.983	55273.33	0.0056	P	0.2
3	☐	250.000	247.913	9850419.64	0.9812	A	1.5
4	☐	625.000	624.089	25290412.47	2.4676	A	1.2
5	☐	1250.000	1250.618	49531239.96	4.9432	A	0.3
6	☐	2500.000	2497.770	96842596.61	9.8710	A	2.1
7	☐	5000.000	5001.179	190054040.2	19.7627	A	1.5
8	☐			92440.80	0.0106	P	7.9

$$y = 0.0040 * x + 0.0017$$

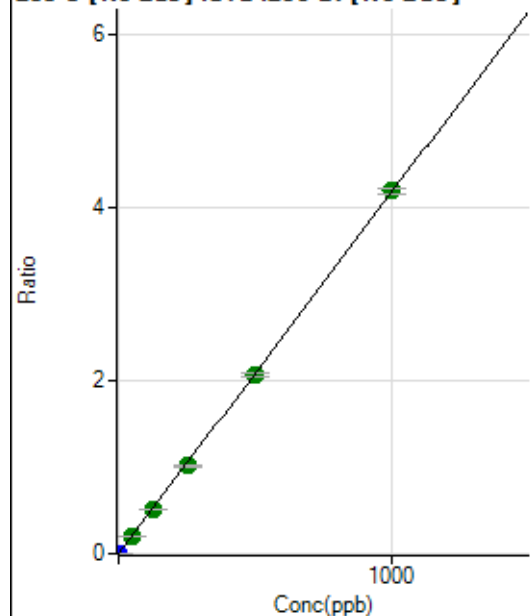
$$R = 1.0000$$

$$DL = 0.01969$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2850.34	0.0003	P	3.7
2	☐	1.000	0.923	41210.24	0.0041	P	2.2
3	☐	50.000	47.623	1997148.15	0.1989	A	1.8
4	☐	125.000	121.608	5202036.80	0.5076	A	1.7
5	☐	250.000	243.684	10187477.76	1.0168	A	1.3
6	☐	500.000	495.511	20281370.81	2.0673	A	2.4
7	☐	1000.000	1004.366	40293334.95	4.1899	A	1.8
8	☐			11817.65	0.0014	P	15.4

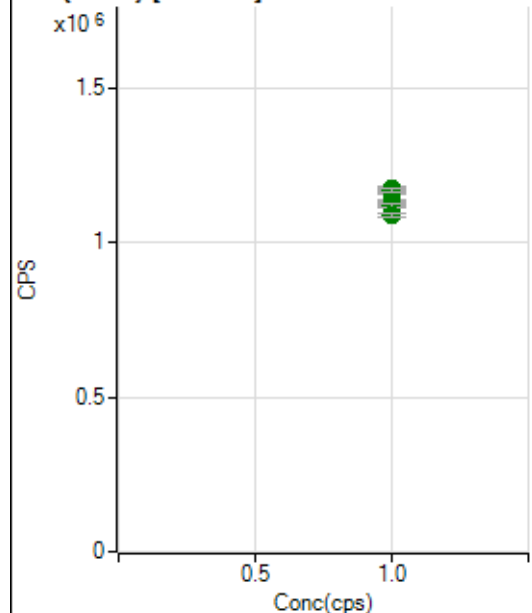
$$y = 0.0042 * x + 2.9114E-004$$

$$R = 1.0000$$

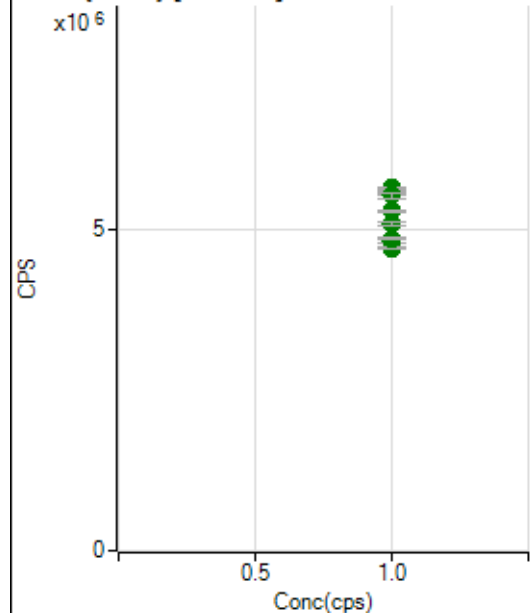
$$DL = 0.007784$$

Weight: <None>

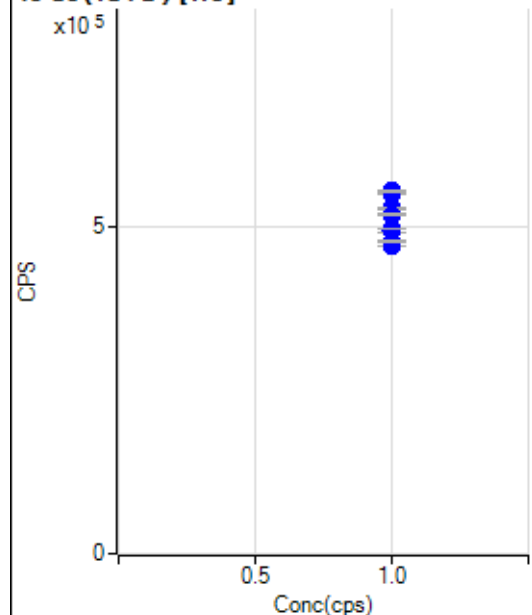
Min Conc: 0

6 Li (ISTD) [No Gas]

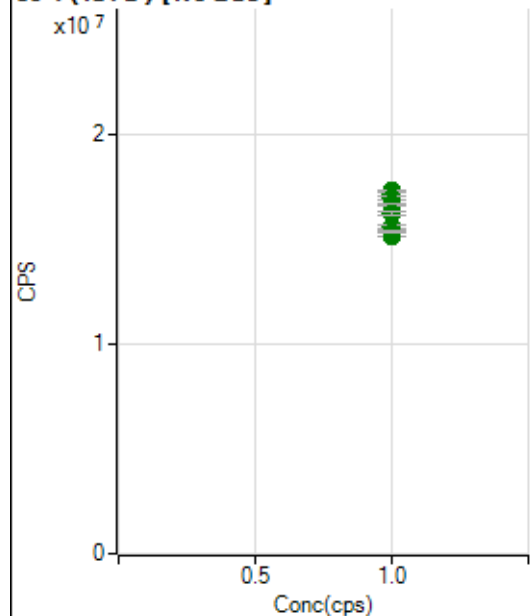
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1115575.54		A	0.7
2	☐	1.000		1136681.47		A	0.6
3	☐	1.000		1161817.92		A	0.3
4	☐	1.000		1174659.24		A	0.9
5	☐	1.000		1168713.72		A	0.9
6	☐	1.000		1125795.18		A	1.7
7	☐	1.000		1119460.71		A	1.1
8	☐	1.000		1090373.18		A	1.1

45 Sc (ISTD) [No Gas]

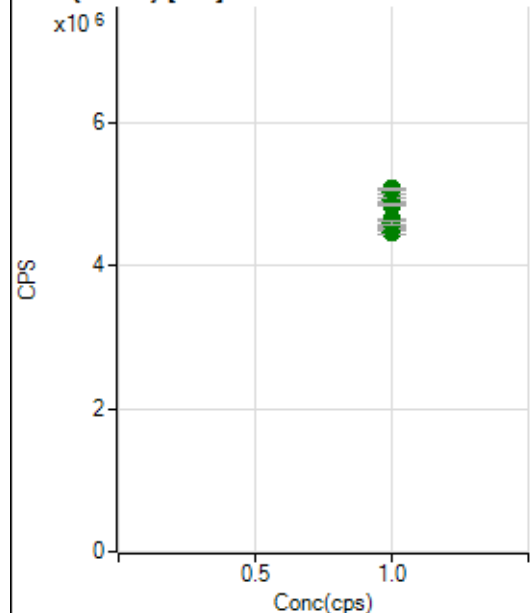
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5558232.49		A	0.9
2	☐	1.000		5642456.58		A	0.7
3	☐	1.000		5525393.11		A	1.9
4	☐	1.000		5281694.30		A	0.7
5	☐	1.000		5093495.62		A	1.4
6	☐	1.000		4818218.61		A	2.0
7	☐	1.000		4701066.28		A	0.7
8	☐	1.000		4857868.96		A	0.7

45 Sc (ISTD) [He]

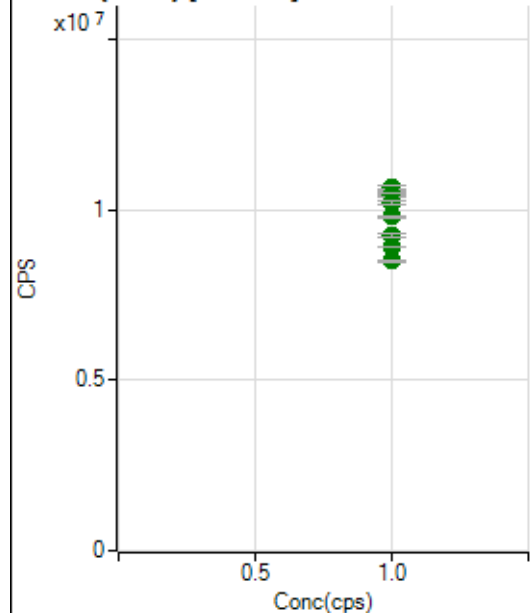
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		550238.04		P	0.1
2	☐	1.000		556091.37		P	0.6
3	☐	1.000		529495.67		P	0.4
4	☐	1.000		520108.46		P	0.2
5	☐	1.000		495717.73		P	1.0
6	☐	1.000		470825.11		P	0.2
7	☐	1.000		478311.05		P	0.6
8	☐	1.000		498365.78		P	0.4

89 Y (ISTD) [No Gas]

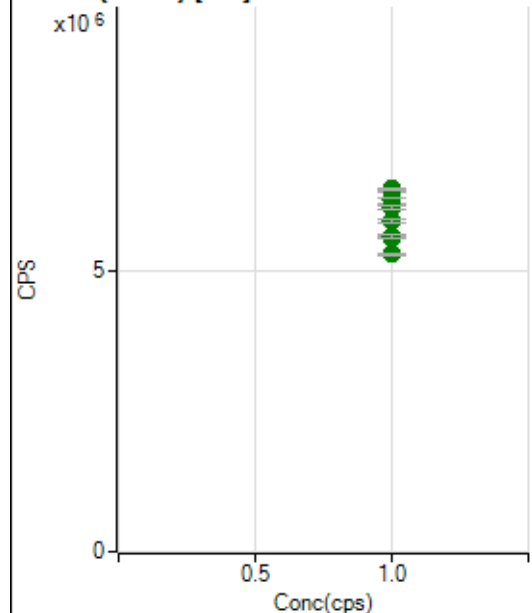
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		17116317.10		A	1.0
2	☐	1.000		17295693.77		A	0.5
3	☐	1.000		16977168.78		A	1.1
4	☐	1.000		16664257.25		A	0.8
5	☐	1.000		16226092.26		A	0.6
6	☐	1.000		15568072.68		A	1.2
7	☐	1.000		15119278.94		A	0.3
8	☐	1.000		15348251.16		A	0.8

89 Y (ISTD) [He]

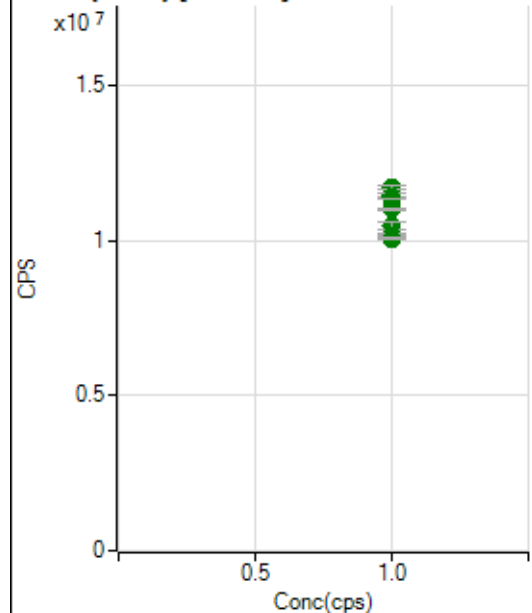
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5018152.18		A	0.7
2	☐	1.000		5066226.80		A	0.6
3	☐	1.000		4912422.81		A	0.7
4	☐	1.000		4835814.37		A	0.5
5	☐	1.000		4633484.79		A	0.7
6	☐	1.000		4454863.79		A	1.0
7	☐	1.000		4515115.97		A	0.7
8	☐	1.000		4583633.30		A	1.0

103 Rh (ISTD) [No Gas]

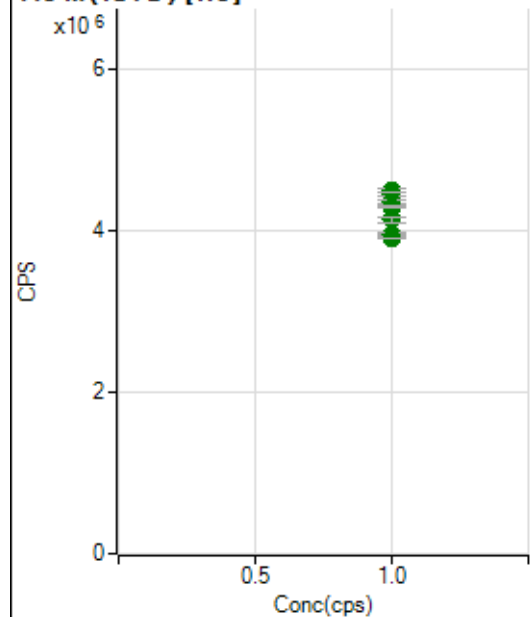
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10468387.76		A	1.2
2	☐	1.000		10629240.46		A	0.9
3	☐	1.000		10420267.76		A	1.0
4	☐	1.000		10202200.96		A	1.1
5	☐	1.000		9792139.37		A	0.5
6	☐	1.000		9231564.72		A	1.3
7	☐	1.000		8910965.08		A	0.3
8	☐	1.000		8479211.75		A	0.4

103 Rh (ISTD) [He]

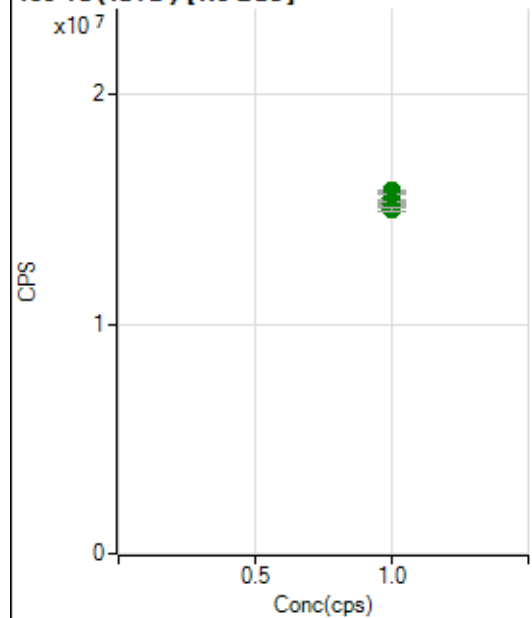
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6414434.35		A	0.9
2	☐	1.000		6456969.28		A	0.4
3	☐	1.000		6258862.89		A	1.6
4	☐	1.000		6130872.06		A	1.2
5	☐	1.000		5876025.05		A	1.2
6	☐	1.000		5584222.42		A	0.5
7	☐	1.000		5610557.55		A	1.7
8	☐	1.000		5295923.05		A	0.9

115 In (ISTD) [No Gas]

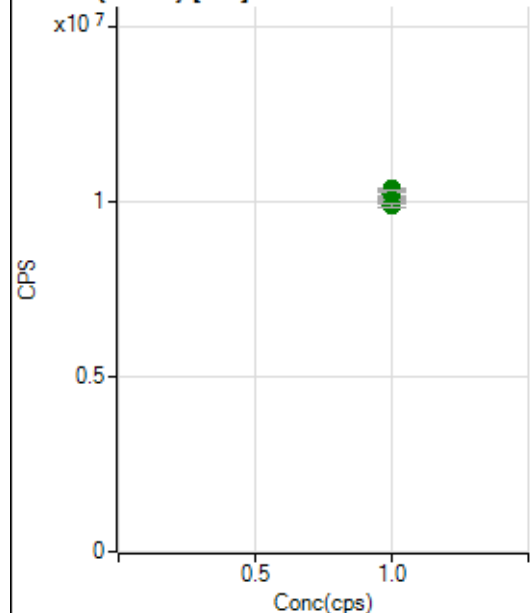
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11458396.96		A	1.0
2	☐	1.000		11701756.27		A	1.1
3	☐	1.000		11421192.71		A	1.6
4	☐	1.000		11352268.06		A	0.4
5	☐	1.000		11027815.82		A	0.5
6	☐	1.000		10490764.96		A	2.1
7	☐	1.000		10201822.67		A	0.1
8	☐	1.000		10076926.45		A	0.2

115 In (ISTD) [He]

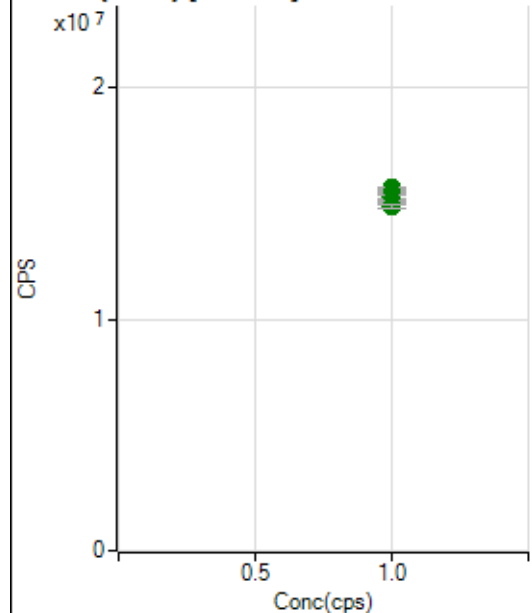
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4497414.71		A	0.9
2	☐	1.000		4452583.13		A	0.9
3	☐	1.000		4359035.38		A	1.1
4	☐	1.000		4297586.60		A	0.7
5	☐	1.000		4138261.47		A	1.5
6	☐	1.000		3945054.50		A	0.8
7	☐	1.000		3955849.27		A	0.8
8	☐	1.000		3912376.37		A	0.4

159 Tb (ISTD) [No Gas]

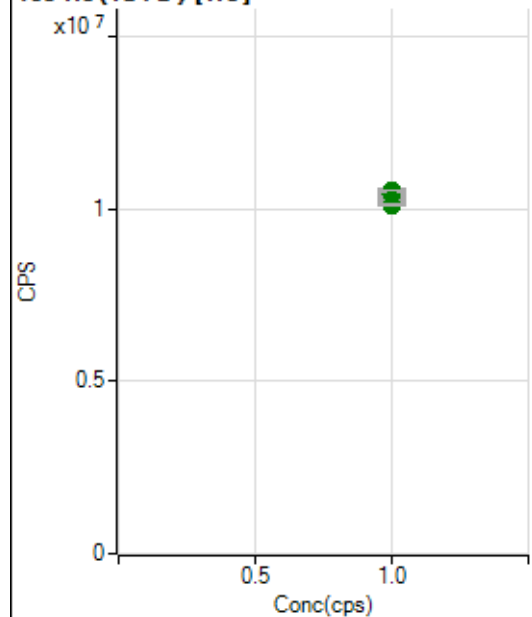
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15497947.27		A	1.7
2	☐	1.000		15704049.91		A	0.9
3	☐	1.000		15745903.52		A	0.2
4	☐	1.000		15797177.54		A	0.7
5	☐	1.000		15666026.29		A	0.3
6	☐	1.000		15342129.49		A	1.1
7	☐	1.000		15201545.88		A	1.1
8	☐	1.000		15006653.25		A	1.3

159 Tb (ISTD) [He]

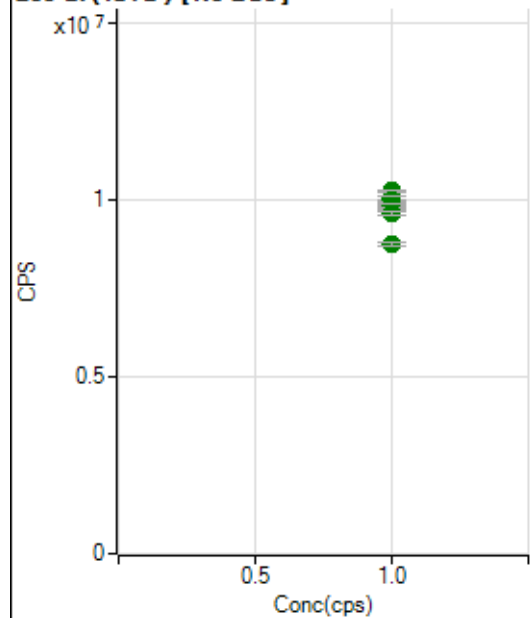
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10105831.31		A	0.5
2	☐	1.000		10361323.73		A	0.2
3	☐	1.000		10232238.04		A	1.1
4	☐	1.000		10314099.50		A	0.6
5	☐	1.000		10055490.20		A	1.0
6	☐	1.000		9939466.94		A	0.0
7	☐	1.000		10037833.60		A	0.6
8	☐	1.000		9888112.07		A	1.0

165 Ho (ISTD) [No Gas]

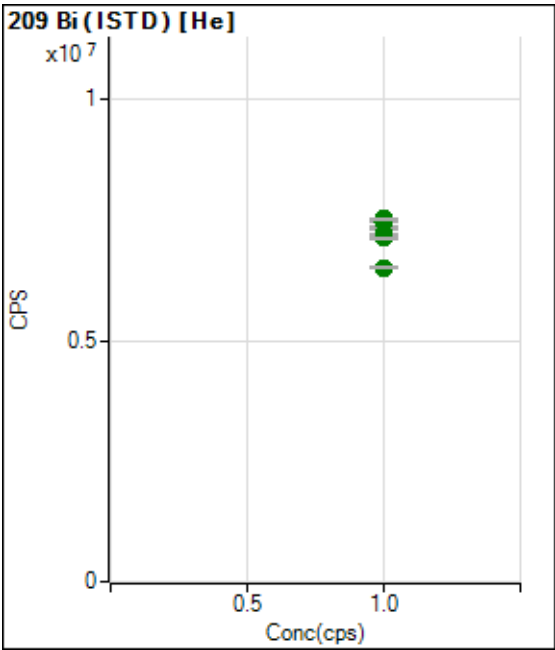
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15124367.97		A	1.4
2	☐	1.000		15481926.29		A	0.7
3	☐	1.000		15500277.55		A	0.9
4	☐	1.000		15673141.02		A	0.6
5	☐	1.000		15427132.69		A	0.6
6	☐	1.000		15254872.97		A	1.3
7	☐	1.000		15125759.64		A	0.4
8	☐	1.000		14857873.39		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10388781.93		A	1.2
2	☐	1.000		10523265.05		A	1.0
3	☐	1.000		10453913.87		A	1.8
4	☐	1.000		10503751.02		A	0.4
5	☐	1.000		10246400.47		A	0.7
6	☐	1.000		10148537.28		A	0.6
7	☐	1.000		10287214.36		A	0.1
8	☐	1.000		10116486.17		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9790797.22		A	0.9
2	☐	1.000		9955045.41		A	0.6
3	☐	1.000		10039694.78		A	1.0
4	☐	1.000		10249167.56		A	0.7
5	☐	1.000		10020221.72		A	1.3
6	☐	1.000		9812178.05		A	1.0
7	☐	1.000		9617384.58		A	0.6
8	☐	1.000		8739534.52		A	1.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1		1.000		7475892.25		A	0.7
2		1.000		7482704.75		A	0.4
3		1.000		7452998.99		A	1.4
4		1.000		7527936.21		A	0.5
5		1.000		7315938.16		A	0.4
6		1.000		7210449.13		A	0.3
7		1.000		7127097.05		A	0.9
8		1.000		6522390.60		A	0.5

US EPA Tune Check Report

Reviewed By:Mohan
On:1/17/2025 7:52:18
AM
Inst Id :P7
ClientSampleId
:TUNE002

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7011425MS2.b
Acq. Date-Time 2025-01-14 11:40:47
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		5821	58214.60			0.359	5.000
24		175802	1758023.77			0.874	5.000
25		21781	217808.41			0.683	5.000
26		24775	247750.08			0.273	5.000
59		70898	708982.05			0.742	5.000
113		11220	112200.59			1.057	5.000
115		139698	1396978.11			0.661	5.000
206		35615	356146.55			0.848	5.000
207		31082	310821.01			0.832	5.000
208		74740	747395.50			0.694	5.000
220		0	1.90			22.017	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5845	5841	5819	5797	5806
24	178208	175664	176178	174489	174472
25	22010	21787	21783	21724	21600
26	24884	24781	24737	24767	24705
59	71531	71237	70864	70705	70155
113	11312	11249	11347	11088	11105
115	140954	138585	140262	139236	139452
206	35955	35859	35645	35304	35312
207	31326	31239	31233	30740	30873
208	75285	75141	74860	74336	74076

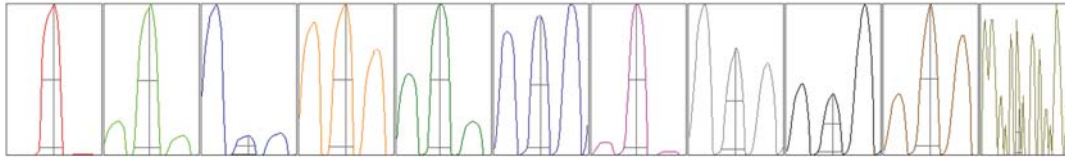
US EPA Tune Check Report

Reviewed By: Mohan
On: 1/17/2025 7:52:18 AM
Inst Id : P7
ClientSampleId : TUNE002

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	10340.72	9.00	8.90 - 9.10	
24	294678.27	23.95	23.90 - 24.10	
25	37303.86	25.00	24.90 - 25.10	
26	42462.73	26.00	25.90 - 26.10	
59	122811.54	58.90	58.90 - 59.10	
113	21245.02	113.00	112.90 - 113.10	
115	267493.84	114.95	114.90 - 115.10	
206	69244.83	206.00	205.90 - 206.10	
207	59780.12	207.00	206.90 - 207.10	
208	146391.73	208.00	207.90 - 208.10	
220	0.15	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.738	0.900	
24	0.64	0.824	0.900	
25	0.61	0.742	0.900	
26	0.61	0.772	0.900	
59	0.60	0.740	0.900	
113	0.54	0.731	0.900	
115	0.52	0.743	0.900	
206	0.54	0.753	0.900	
207	0.53	0.764	0.900	
208	0.53	0.772	0.900	
220	0.17	0.197		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

Reviewed By: Mohan
On: 1/17/2025 7:52:18 AM
Inst Id : P7
ClientSampleId
TUNE002

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	14.6 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	138	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	0.3 mm
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EM

Discriminator	4.8 mV	Analog HV	2268 V	Pulse HV	1064 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25193	251934.87			0.563	
89		46522	465222.12			0.573	
205		33515	335147.28			0.617	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25409	25254	25159	25072	25073
89	46947	46497	46552	46237	46379
205	33758	33657	33551	33275	33333

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	3.0 V
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US EPA Tune Check Report

Reviewed By:Mohan
On:1/17/2025 7:52:18
AM
Inst Id :P7
ClientSampleId
TUNE002

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	138	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.10		
Hardware Settings					
Torch					
Torch H	0.2 mm	Torch V	0.3 mm		
EM					
Discriminator	4.8 mV	Analog HV	2268 V	Pulse HV	1064 V

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:27:47 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.43	-0.03	-0.39	0.00	N/A	ppb
Antimony	121-1	0.00	0.01	0.00	0.00	N/A	ppb
Arsenic	75-2	0.02	0.01	-0.03	0.00	N/A	ppb
Barium	135-1	-0.05	0.02	0.03	0.00	N/A	ppb
Barium	137-1	-0.04	0.01	0.02	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	-0.12	0.07	0.00	N/A	ppb
Cadmium	106-1	-0.38	0.54	-0.16	0.00	N/A	ppb
Cadmium	111-1	-0.02	0.03	-0.01	0.00	N/A	ppb
Calcium	43-1	-0.95	-0.04	0.98	0.00	N/A	ppb
Calcium	44-1	1.63	0.32	-1.95	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	0.00	0.00	N/A	ppb
Cobalt	59-2	0.01	-0.01	-0.01	0.00	N/A	ppb
Copper	63-2	-0.01	0.04	-0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	-0.09	0.20	-0.11	0.00	N/A	ppb
Iron	57-2	0.70	-0.13	-0.57	0.00	N/A	ppb
Iron	54-2	0.08	-0.55	0.47	0.00	N/A	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:27:47 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	207-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	208-1	-0.01	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.48	0.47	0.01	0.00	N/A	ppb
Manganese	55-2	0.07	0.00	-0.07	0.00	N/A	ppb
Molybdenum	94-1	-0.04	0.03	0.01	0.00	N/A	ppb
Molybdenum	95-1	-0.04	0.02	0.01	0.00	N/A	ppb
Molybdenum	96-1	-0.01	0.03	-0.02	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.01	-0.01	0.00	N/A	ppb
Molybdenum	98-1	-0.02	0.04	-0.02	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.01	0.03	0.00	N/A	ppb
Phosphorus	31-2	-18.41	-15.55	-18.15	-17.37		ppb
Potassium	39-2	-0.44	0.76	-0.33	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.41	-0.23	-0.18	0.00	N/A	ppb
Selenium	77-2	0.31	-0.06	-0.24	0.00	N/A	ppb
Selenium	78-2	-0.21	0.17	0.04	0.00	N/A	ppb
Silicon	28-1	0.35	0.04	-0.38	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.01	0.00	N/A	ppb
Sodium	23-2	0.70	0.11	-0.82	0.00	N/A	ppb
Strontium	86-1	0.08	0.07	-0.16	0.00	N/A	ppb
Strontium	88-1	-0.07	0.02	0.05	0.00	N/A	ppb
Sulfur	34-1	32.18	-11.12	-141.09	-40.01		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	-0.01	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	0.01	-0.01	0.00	N/A	ppb
Titanium	47-1	0.05	0.05	-0.09	0.00	N/A	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:27:47 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	-0.01	0.01	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.15	-0.02	-0.13	0.00	N/A	ppb
Zirconium	90-1	-0.01	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:34:20 DataFile Name : 006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.81	21.12	20.48	20.80	1.56	ppb
Antimony	121-1	2.18	2.22	2.23	2.21	1.11	ppb
Arsenic	75-2	1.07	1.05	1.01	1.04	3.23	ppb
Barium	135-1	10.62	10.61	10.93	10.72	1.70	ppb
Barium	137-1	10.34	10.73	10.73	10.60	2.11	ppb
Beryllium	9-1	1.13	1.09	1.16	1.13	3.24	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.98	1.20	1.18	1.12	10.86	ppb
Cadmium	106-1	2.87	0.75	-0.29	1.11	145.08	ppb
Cadmium	111-1	1.24	1.11	1.05	1.13	8.45	ppb
Calcium	43-1	546.87	574.35	552.96	558.06	2.59	ppb
Calcium	44-1	546.97	561.61	565.33	557.97	1.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.07	2.25	2.15	2.16	4.15	ppb
Cobalt	59-2	1.15	1.19	1.15	1.16	1.76	ppb
Copper	63-2	2.04	2.07	2.07	2.06	0.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				99		%
Iron	56-2	58.06	58.56	58.52	58.38	0.48	ppb
Iron	57-2	61.44	61.35	59.63	60.81	1.68	ppb
Iron	54-2	59.99	61.36	61.74	61.03	1.51	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:34:20 DataFile Name : 006CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.01	0.98	0.99	0.99	1.58	ppb
Lead	207-1	0.97	0.98	1.00	0.98	1.64	ppb
Lead	208-1	0.98	0.98	0.98	0.98	0.26	ppb
Lithium	6-1				102		%
Magnesium	24-2	547.95	552.80	549.87	550.20	0.44	ppb
Manganese	55-2	1.08	1.10	1.14	1.11	2.68	ppb
Molybdenum	94-1	5.78	6.10	6.17	6.02	3.47	ppb
Molybdenum	95-1	5.12	5.22	5.23	5.19	1.27	ppb
Molybdenum	96-1	5.33	5.40	5.31	5.35	0.88	ppb
Molybdenum	97-1	5.16	5.31	5.24	5.24	1.49	ppb
Molybdenum	98-1	5.17	5.20	5.09	5.15	1.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.14	1.11	1.21	1.15	4.55	ppb
Phosphorus	31-2	7.73	25.88	18.50	17.37	52.56	ppb
Potassium	39-2	555.42	555.42	552.86	554.57	0.27	ppb
Rhodium	103-1				102		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	5.45	5.70	5.45	5.53	2.58	ppb
Selenium	77-2	5.39	5.20	5.26	5.28	1.78	ppb
Selenium	78-2	5.82	6.63	7.05	6.50	9.64	ppb
Silicon	28-1	-0.26	0.26	0.44	0.14	248.95	ppb
Silver	107-1	1.14	1.16	1.18	1.16	1.81	ppb
Silver	109-1	1.14	1.15	1.14	1.14	0.60	ppb
Sodium	23-2	510.68	515.86	514.92	513.82	0.54	ppb
Strontium	86-1	26.63	27.15	25.87	26.55	2.43	ppb
Strontium	88-1	25.90	26.47	26.39	26.26	1.18	ppb
Sulfur	34-1	5.91	52.65	61.48	40.01	74.64	ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	0.97	1.02	1.00	1.00	2.20	ppb
Thallium	205-1	0.98	1.00	0.98	0.99	1.33	ppb
Tin	118-1	5.47	5.64	5.76	5.62	2.55	ppb
Titanium	47-1	5.45	5.17	5.41	5.34	2.86	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:34:20 DataFile Name : 006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.90	0.92	0.94	0.92	2.36	ppb
Vanadium	51-2	5.26	5.33	5.42	5.33	1.54	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	5.90	5.60	5.68	5.73	2.70	ppb
Zirconium	90-1	0.98	1.00	0.98	0.99	1.65	ppb
Zirconium	91-1	0.97	1.04	1.03	1.01	4.04	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:37:36 DataFile Name : 007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1006.21	1003.87	1009.01	1006.36	0.26	ppb
Antimony	121-1	51.07	52.14	51.74	51.65	1.04	ppb
Arsenic	75-2	52.37	53.49	51.95	52.60	1.51	ppb
Barium	135-1	251.39	255.92	252.39	253.23	0.94	ppb
Barium	137-1	251.10	255.34	249.89	252.11	1.13	ppb
Beryllium	9-1	53.25	53.27	53.88	53.47	0.67	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	55.63	57.51	57.44	56.86	1.87	ppb
Cadmium	106-1	55.01	59.75	55.54	56.76	4.57	ppb
Cadmium	111-1	54.49	55.47	54.86	54.94	0.90	ppb
Calcium	43-1	5223.07	5278.28	5383.89	5295.08	1.54	ppb
Calcium	44-1	5080.45	5120.55	5140.06	5113.68	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.45	50.78	50.47	50.57	0.37	ppb
Cobalt	59-2	50.77	51.04	51.02	50.94	0.30	ppb
Copper	63-2	529.78	532.28	531.21	531.09	0.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	56-2	2677.81	2696.98	2693.22	2689.33	0.38	ppb
Iron	57-2	2736.39	2760.55	2727.09	2741.34	0.63	ppb
Iron	54-2	2773.34	2797.37	2811.80	2794.17	0.70	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:37:36 DataFile Name : 007CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	240.38	249.38	248.65	246.14	2.03	ppb
Lead	207-1	241.52	250.86	252.93	248.44	2.45	ppb
Lead	208-1	243.76	250.51	249.47	247.91	1.47	ppb
Lithium	6-1				104		%
Magnesium	24-2	5115.46	5132.22	5268.58	5172.09	1.62	ppb
Manganese	55-2	502.68	500.60	500.61	501.30	0.24	ppb
Molybdenum	94-1	491.45	508.64	506.61	502.23	1.87	ppb
Molybdenum	95-1	500.36	512.40	505.97	506.24	1.19	ppb
Molybdenum	96-1	505.84	514.11	513.03	510.99	0.88	ppb
Molybdenum	97-1	496.37	505.43	505.98	502.59	1.07	ppb
Molybdenum	98-1	499.26	504.43	506.96	503.55	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.43	53.33	53.71	53.49	0.36	ppb
Phosphorus	31-2	1065.96	1045.92	1022.61	1044.83	2.08	ppb
Potassium	39-2	2577.91	2600.06	2613.15	2597.04	0.69	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				96		%
Selenium	82-1	52.90	53.52	55.13	53.85	2.14	ppb
Selenium	77-2	51.44	51.35	54.39	52.39	3.30	ppb
Selenium	78-2	55.22	55.28	50.06	53.52	5.59	ppb
Silicon	28-1	52.00	52.89	53.76	52.89	1.67	ppb
Silver	107-1	54.97	55.84	55.27	55.36	0.80	ppb
Silver	109-1	54.81	55.75	54.99	55.19	0.91	ppb
Sodium	23-2	5285.56	5313.60	5259.13	5286.10	0.52	ppb
Strontium	86-1	1211.16	1247.80	1239.92	1232.96	1.56	ppb
Strontium	88-1	1250.22	1246.01	1245.33	1247.19	0.21	ppb
Sulfur	34-1	1017.90	1065.38	1109.22	1064.17	4.29	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	46.73	47.92	47.91	47.52	1.44	ppb
Thallium	205-1	46.19	47.09	47.14	46.81	1.14	ppb
Tin	118-1	51.90	52.69	52.19	52.26	0.77	ppb
Titanium	47-1	493.96	499.28	508.89	500.71	1.51	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:37:36 DataFile Name : 007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	46.85	48.57	47.45	47.62	1.84	ppb
Vanadium	51-2	50.05	50.01	49.95	50.00	0.10	ppb
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	520.51	524.64	520.50	521.88	0.46	ppb
Zirconium	90-1	48.88	50.03	49.89	49.60	1.27	ppb
Zirconium	91-1	48.84	50.05	50.25	49.71	1.54	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:40:38 DataFile Name : 008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2546.46	2545.08	2538.36	2543.30	0.17	ppb
Antimony	121-1	127.03	129.27	128.90	128.40	0.93	ppb
Arsenic	75-2	133.15	131.35	131.86	132.12	0.70	ppb
Barium	135-1	646.35	665.41	658.13	656.63	1.46	ppb
Barium	137-1	652.59	659.00	658.47	656.69	0.54	ppb
Beryllium	9-1	128.88	133.35	133.09	131.78	1.91	ppb
Bismuth	209-1				105		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	138.44	140.83	143.06	140.78	1.64	ppb
Cadmium	106-1	138.75	143.28	140.38	140.80	1.63	ppb
Cadmium	111-1	134.42	138.15	137.93	136.84	1.53	ppb
Calcium	43-1	13075.53	13345.22	13466.39	13295.71	1.50	ppb
Calcium	44-1	12859.74	12804.34	13047.71	12903.93	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	128.21	126.64	128.00	127.62	0.67	ppb
Cobalt	59-2	129.46	129.19	128.53	129.06	0.37	ppb
Copper	63-2	1350.51	1332.56	1327.77	1336.95	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	56-2	6912.98	6876.13	6831.27	6873.46	0.60	ppb
Iron	57-2	6973.31	6939.91	6939.94	6951.05	0.28	ppb
Iron	54-2	7089.07	6862.07	6929.59	6960.24	1.67	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:40:38 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	615.09	618.08	629.49	620.89	1.22	ppb
Lead	207-1	615.99	622.50	645.19	627.89	2.44	ppb
Lead	208-1	619.14	620.33	632.80	624.09	1.21	ppb
Lithium	6-1				105		%
Magnesium	24-2	12910.77	12955.97	13006.65	12957.80	0.37	ppb
Manganese	55-2	1276.49	1292.81	1280.05	1283.12	0.67	ppb
Molybdenum	94-1	1246.06	1289.30	1292.19	1275.85	2.03	ppb
Molybdenum	95-1	1256.47	1277.72	1276.98	1270.39	0.95	ppb
Molybdenum	96-1	1249.86	1271.55	1288.96	1270.12	1.54	ppb
Molybdenum	97-1	1265.54	1285.66	1273.65	1274.95	0.79	ppb
Molybdenum	98-1	1257.80	1274.97	1273.75	1268.84	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	134.50	133.96	135.24	134.57	0.48	ppb
Phosphorus	31-2	2660.24	2623.03	2627.35	2636.87	0.77	ppb
Potassium	39-2	6550.72	6640.21	6505.56	6565.50	1.04	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	132.98	135.97	135.30	134.75	1.16	ppb
Selenium	77-2	133.18	129.53	133.41	132.04	1.65	ppb
Selenium	78-2	130.71	141.36	134.86	135.64	3.96	ppb
Silicon	28-1	125.53	128.06	128.19	127.26	1.18	ppb
Silver	107-1	135.76	140.63	138.54	138.31	1.77	ppb
Silver	109-1	137.25	139.95	139.30	138.83	1.02	ppb
Sodium	23-2	13348.28	13335.77	13152.71	13278.92	0.82	ppb
Strontium	86-1	3052.44	3126.49	3153.16	3110.69	1.68	ppb
Strontium	88-1	3100.87	3215.42	3203.66	3173.32	1.99	ppb
Sulfur	34-1	2606.22	2689.20	2645.95	2647.12	1.57	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	117.97	118.29	121.36	119.21	1.57	ppb
Thallium	205-1	124.19	123.40	125.08	124.22	0.67	ppb
Tin	118-1	127.41	131.97	129.48	129.62	1.76	ppb
Titanium	47-1	1255.07	1312.02	1294.46	1287.18	2.27	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:40:38 DataFile Name : 008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	120.19	120.64	123.99	121.61	1.71	ppb
Vanadium	51-2	127.83	126.36	126.57	126.92	0.63	ppb
Yttrium	89-1				97		%
Yttrium	89-2				96		%
Zinc	66-2	1318.76	1304.56	1305.23	1309.52	0.61	ppb
Zirconium	90-1	125.16	128.35	129.45	127.66	1.75	ppb
Zirconium	91-1	122.79	126.68	126.64	125.37	1.79	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:43:29 DataFile Name : 009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4974.83	4962.81	4994.75	4977.46	0.32	ppb
Antimony	121-1	256.61	261.14	262.66	260.14	1.21	ppb
Arsenic	75-2	261.40	256.62	256.07	258.03	1.14	ppb
Barium	135-1	1276.53	1297.79	1314.31	1296.21	1.46	ppb
Barium	137-1	1274.07	1299.24	1290.27	1287.86	0.99	ppb
Beryllium	9-1	252.20	258.19	253.38	254.59	1.25	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	263.91	270.12	265.08	266.37	1.24	ppb
Cadmium	106-1	271.50	275.50	272.27	273.09	0.78	ppb
Cadmium	111-1	262.28	267.18	264.92	264.79	0.93	ppb
Calcium	43-1	25869.51	26774.09	26676.86	26440.15	1.88	ppb
Calcium	44-1	25328.09	26168.14	26023.16	25839.80	1.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	249.81	250.36	251.12	250.43	0.26	ppb
Cobalt	59-2	259.04	256.87	258.73	258.21	0.46	ppb
Copper	63-2	2620.60	2600.93	2630.93	2617.49	0.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				92		%
Iron	56-2	13401.07	13379.18	13446.33	13408.86	0.26	ppb
Iron	57-2	13664.17	13633.26	13662.45	13653.30	0.13	ppb
Iron	54-2	13576.94	13683.82	13867.67	13709.48	1.07	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:43:29 DataFile Name : 009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1262.08	1247.41	1248.19	1252.56	0.66	ppb
Lead	207-1	1267.76	1235.65	1247.91	1250.44	1.30	ppb
Lead	208-1	1253.88	1246.49	1251.48	1250.62	0.30	ppb
Lithium	6-1				105		%
Magnesium	24-2	25733.11	25932.91	25609.27	25758.43	0.63	ppb
Manganese	55-2	2520.77	2541.58	2515.39	2525.91	0.55	ppb
Molybdenum	94-1	2546.56	2541.02	2533.62	2540.40	0.26	ppb
Molybdenum	95-1	2504.72	2521.44	2555.79	2527.31	1.03	ppb
Molybdenum	96-1	2512.10	2524.97	2543.32	2526.80	0.62	ppb
Molybdenum	97-1	2514.63	2505.31	2520.74	2513.56	0.31	ppb
Molybdenum	98-1	2503.82	2524.85	2535.76	2521.48	0.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	262.86	262.34	263.74	262.98	0.27	ppb
Phosphorus	31-2	5211.33	5209.17	5184.83	5201.78	0.28	ppb
Potassium	39-2	12716.81	12821.51	12704.00	12747.44	0.51	ppb
Rhodium	103-1				94		%
Rhodium	103-2				92		%
Scandium	45-1				92		%
Scandium	45-2				90		%
Selenium	82-1	263.74	261.67	262.23	262.55	0.41	ppb
Selenium	77-2	265.72	252.97	258.29	258.99	2.47	ppb
Selenium	78-2	269.62	260.81	255.19	261.87	2.78	ppb
Silicon	28-1	247.20	257.52	255.34	253.35	2.15	ppb
Silver	107-1	267.56	267.85	270.05	268.49	0.51	ppb
Silver	109-1	268.35	269.81	273.30	270.49	0.94	ppb
Sodium	23-2	26389.42	26094.02	26544.09	26342.51	0.87	ppb
Strontium	86-1	6147.13	6129.58	6183.23	6153.31	0.44	ppb
Strontium	88-1	6303.70	6262.24	6241.10	6269.01	0.51	ppb
Sulfur	34-1	5155.53	5421.96	5236.65	5271.38	2.59	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	251.43	254.23	248.85	251.50	1.07	ppb
Thallium	205-1	250.37	249.07	247.42	248.95	0.59	ppb
Tin	118-1	258.18	264.13	261.66	261.33	1.14	ppb
Titanium	47-1	2528.92	2582.58	2555.87	2555.79	1.05	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:43:29 DataFile Name : 009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	247.44	241.96	241.65	243.68	1.34	ppb
Vanadium	51-2	250.65	250.36	249.72	250.24	0.19	ppb
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	2642.94	2611.61	2639.16	2631.24	0.65	ppb
Zirconium	90-1	253.12	252.85	253.62	253.20	0.16	ppb
Zirconium	91-1	248.41	246.60	252.06	249.03	1.12	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:46:18 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10449.13	10289.44	10081.53	10273.37	1.79	ppb
Antimony	121-1	495.63	517.72	505.61	506.32	2.19	ppb
Arsenic	75-2	506.50	517.67	511.25	511.81	1.10	ppb
Barium	135-1	2468.96	2586.02	2532.78	2529.25	2.32	ppb
Barium	137-1	2454.19	2542.58	2531.46	2509.41	1.92	ppb
Beryllium	9-1	484.04	509.02	501.48	498.18	2.57	ppb
Bismuth	209-1				100		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	500.11	519.78	511.57	510.49	1.94	ppb
Cadmium	106-1	512.59	524.31	512.66	516.52	1.31	ppb
Cadmium	111-1	497.83	516.71	505.64	506.73	1.87	ppb
Calcium	43-1	50805.62	52861.04	52957.97	52208.21	2.33	ppb
Calcium	44-1	50158.64	51492.40	52051.09	51234.04	1.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	505.07	509.28	505.30	506.55	0.47	ppb
Cobalt	59-2	511.27	506.66	512.04	509.99	0.57	ppb
Copper	63-2	5195.47	5147.74	5103.84	5149.02	0.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				98		%
Indium	115-1				92		%
Indium	115-2				88		%
Iron	56-2	27122.97	26942.11	26977.24	27014.11	0.36	ppb
Iron	57-2	26792.83	26593.08	27203.32	26863.08	1.16	ppb
Iron	54-2	27116.08	27063.04	27215.05	27131.39	0.28	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:46:18 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2457.94	2534.67	2541.86	2511.49	1.85	ppb
Lead	207-1	2451.68	2525.97	2535.80	2504.48	1.84	ppb
Lead	208-1	2436.46	2523.74	2533.10	2497.77	2.13	ppb
Lithium	6-1				101		%
Magnesium	24-2	51119.89	51509.95	51049.28	51226.38	0.48	ppb
Manganese	55-2	5098.64	5068.84	5085.36	5084.28	0.29	ppb
Molybdenum	94-1	4903.71	4986.48	5061.14	4983.78	1.58	ppb
Molybdenum	95-1	4861.47	5009.74	5061.35	4977.52	2.08	ppb
Molybdenum	96-1	4918.07	5065.04	5066.77	5016.63	1.70	ppb
Molybdenum	97-1	4905.84	4960.39	5076.06	4980.76	1.75	ppb
Molybdenum	98-1	4881.75	5050.71	5046.89	4993.12	1.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	518.76	512.50	514.51	515.26	0.62	ppb
Phosphorus	31-2	10355.20	10070.35	10110.06	10178.53	1.52	ppb
Potassium	39-2	25585.98	25359.79	25299.64	25415.14	0.59	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				87		%
Scandium	45-2				86		%
Selenium	82-1	501.99	514.84	511.17	509.33	1.30	ppb
Selenium	77-2	491.96	518.29	507.45	505.90	2.62	ppb
Selenium	78-2	497.17	515.65	509.12	507.31	1.85	ppb
Silicon	28-1	513.52	530.08	530.53	524.71	1.85	ppb
Silver	107-1	511.02	520.19	511.89	514.37	0.98	ppb
Silver	109-1	506.44	520.10	518.65	515.06	1.46	ppb
Sodium	23-2	53016.40	53337.38	52279.46	52877.75	1.03	ppb
Strontium	86-1	12175.53	12527.89	12577.34	12426.92	1.76	ppb
Strontium	88-1	12250.43	12582.35	12721.30	12518.03	1.93	ppb
Sulfur	34-1	9879.61	10267.73	10178.46	10108.60	2.01	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	491.11	512.04	504.50	502.55	2.11	ppb
Thallium	205-1	486.31	507.60	511.02	501.64	2.67	ppb
Tin	118-1	494.41	516.75	505.66	505.61	2.21	ppb
Titanium	47-1	4883.12	5090.07	5181.90	5051.70	3.03	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:46:18 DataFile Name : 010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	481.96	500.60	503.97	495.51	2.39	ppb
Vanadium	51-2	509.31	507.94	502.03	506.43	0.76	ppb
Yttrium	89-1				91		%
Yttrium	89-2				89		%
Zinc	66-2	5261.89	5166.11	5201.31	5209.77	0.93	ppb
Zirconium	90-1	486.28	502.63	511.23	500.05	2.54	ppb
Zirconium	91-1	488.17	505.27	511.63	501.69	2.42	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:49:02 DataFile Name : 011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19856.66	20062.78	19911.97	19943.80	0.53	ppb
Antimony	121-1	984.95	982.33	1014.11	993.80	1.77	ppb
Arsenic	75-2	990.27	990.74	992.20	991.07	0.10	ppb
Barium	135-1	4891.02	4917.02	5101.08	4969.71	2.30	ppb
Barium	137-1	4951.76	4899.22	5094.30	4981.76	2.03	ppb
Beryllium	9-1	1005.23	984.52	1006.49	998.74	1.24	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	973.49	985.96	1005.59	988.35	1.64	ppb
Cadmium	106-1	969.03	972.13	1009.80	983.65	2.31	ppb
Cadmium	111-1	972.34	985.82	1015.48	991.21	2.23	ppb
Calcium	43-1	98390.23	103216.43	102561.51	101389.39	2.58	ppb
Calcium	44-1	99380.14	101568.25	103230.69	101393.03	1.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	991.62	1003.75	993.41	996.26	0.66	ppb
Cobalt	59-2	987.42	995.30	994.47	992.40	0.44	ppb
Copper	63-2	9858.25	9937.18	9855.66	9883.70	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				89		%
Indium	115-2				88		%
Iron	56-2	52167.93	52672.64	52387.89	52409.49	0.48	ppb
Iron	57-2	52608.50	52444.81	52814.53	52622.61	0.35	ppb
Iron	54-2	52891.10	53649.18	53133.52	53224.60	0.73	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:49:02 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4900.52	5069.62	5012.82	4994.32	1.72	ppb
Lead	207-1	4898.53	5074.08	5019.49	4997.37	1.80	ppb
Lead	208-1	4919.33	5065.26	5018.95	5001.18	1.49	ppb
Lithium	6-1				100		%
Magnesium	24-2	99444.87	101614.89	100618.28	100559.35	1.08	ppb
Manganese	55-2	9951.58	10008.74	9881.21	9947.18	0.64	ppb
Molybdenum	94-1	9802.23	10060.98	10120.80	9994.67	1.69	ppb
Molybdenum	95-1	9794.55	10071.80	10138.29	10001.55	1.82	ppb
Molybdenum	96-1	9850.94	9993.36	10101.47	9981.92	1.26	ppb
Molybdenum	97-1	9887.02	10070.68	10051.24	10002.98	1.01	ppb
Molybdenum	98-1	9852.31	10082.29	10052.02	9995.54	1.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	981.67	991.57	990.04	987.76	0.54	ppb
Phosphorus	31-2	19694.83	19951.73	19876.25	19840.94	0.67	ppb
Potassium	39-2	49660.30	49804.18	50055.94	49840.14	0.40	ppb
Rhodium	103-1				85		%
Rhodium	103-2				87		%
Scandium	45-1				85		%
Scandium	45-2				87		%
Selenium	82-1	979.48	992.98	999.89	990.78	1.05	ppb
Selenium	77-2	978.74	1002.17	1000.49	993.80	1.31	ppb
Selenium	78-2	973.43	1006.68	995.48	991.86	1.71	ppb
Silicon	28-1	973.38	991.20	994.86	986.48	1.17	ppb
Silver	107-1	977.64	978.68	1002.47	986.26	1.42	ppb
Silver	109-1	978.68	976.80	1000.59	985.36	1.34	ppb
Sodium	23-2	102744.85	104335.32	103385.55	103488.57	0.77	ppb
Strontium	86-1	24813.38	25220.76	25155.91	25063.35	0.87	ppb
Strontium	88-1	24698.10	25092.58	25150.31	24980.33	0.99	ppb
Sulfur	34-1	19417.93	20101.20	20049.63	19856.25	1.92	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	994.42	1008.39	994.78	999.20	0.80	ppb
Thallium	205-1	985.69	1008.58	1004.82	999.70	1.23	ppb
Tin	118-1	983.85	991.51	1005.66	993.67	1.11	ppb
Titanium	47-1	9698.00	10089.72	10078.84	9955.52	2.24	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:49:02 DataFile Name : 011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	984.67	1020.15	1008.28	1004.37	1.80	ppb
Vanadium	51-2	989.47	995.97	1004.01	996.48	0.73	ppb
Yttrium	89-1				88		%
Yttrium	89-2				90		%
Zinc	66-2	9862.80	9888.22	9810.30	9853.77	0.40	ppb
Zirconium	90-1	982.89	1007.36	1006.35	998.87	1.39	ppb
Zirconium	91-1	976.65	1008.76	1012.69	999.37	1.98	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:51:48 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99837.50	100657.51	99456.64	99983.88	0.61	ppb
Antimony	121-1	0.97	0.91	0.87	0.92	5.29	ppb
Arsenic	75-2	0.56	0.57	0.53	0.55	3.45	ppb
Barium	135-1	2.95	2.76	2.50	2.73	8.21	ppb
Barium	137-1	2.90	2.66	2.63	2.73	5.46	ppb
Beryllium	9-1	0.43	0.34	0.33	0.37	15.56	ppb
Bismuth	209-1				89		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.51	0.54	0.61	0.55	9.85	ppb
Cadmium	106-1	-3.14	-4.07	-3.06	-3.43		ppb
Cadmium	111-1	0.11	-0.03	0.01	0.03	249.02	ppb
Calcium	43-1	490394.49	509498.20	498326.49	499406.39	1.92	ppb
Calcium	44-1	494602.01	503859.38	500172.73	499544.71	0.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.84	1.92	2.04	1.93	5.15	ppb
Cobalt	59-2	2.69	2.68	2.62	2.67	1.38	ppb
Copper	63-2	2.64	2.45	2.18	2.42	9.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				97		%
Indium	115-1				88		%
Indium	115-2				87		%
Iron	56-2	248845.31	249292.63	249623.36	249253.77	0.16	ppb
Iron	57-2	249187.93	251017.70	247429.06	249211.56	0.72	ppb
Iron	54-2	248205.88	249488.40	249488.02	249060.77	0.30	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:51:48 DataFile Name : 012CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.52	2.24	2.17	2.31	7.85	ppb
Lead	207-1	2.48	2.15	2.07	2.23	9.71	ppb
Lead	208-1	2.49	2.19	2.08	2.25	9.32	ppb
Lithium	6-1				98		%
Magnesium	24-2	500757.77	498245.81	500139.48	499714.36	0.26	ppb
Manganese	55-2	5.23	5.12	4.95	5.10	2.76	ppb
Molybdenum	94-1	4.41	3.93	3.56	3.97	10.65	ppb
Molybdenum	95-1	3.66	3.03	2.62	3.10	16.87	ppb
Molybdenum	96-1	5.39	4.84	4.41	4.88	10.06	ppb
Molybdenum	97-1	3.63	2.99	2.74	3.12	14.68	ppb
Molybdenum	98-1	3.55	2.93	2.55	3.01	16.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.12	4.90	4.73	4.92	3.92	ppb
Phosphorus	31-2	3.60	-10.44	4.20	-0.88		ppb
Potassium	39-2	250553.82	250894.01	248459.53	249969.12	0.53	ppb
Rhodium	103-1				81		%
Rhodium	103-2				83		%
Scandium	45-1				87		%
Scandium	45-2				91		%
Selenium	82-1	0.82	1.44	0.71	0.99	40.04	ppb
Selenium	77-2	-0.24	0.16	0.36	0.09	331.23	ppb
Selenium	78-2	-1.26	-0.62	-1.19	-1.02		ppb
Silicon	28-1	-4.78	-4.85	-5.05	-4.89		ppb
Silver	107-1	0.32	0.26	0.22	0.27	19.85	ppb
Silver	109-1	0.33	0.27	0.23	0.28	17.42	ppb
Sodium	23-2	499385.89	497474.11	499915.11	498925.04	0.26	ppb
Strontium	86-1	76.91	74.02	74.85	75.26	1.97	ppb
Strontium	88-1	76.59	76.38	74.49	75.82	1.52	ppb
Sulfur	34-1	-961.43	-857.35	-857.79	-892.19		ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	0.33	0.25	0.22	0.26	20.52	ppb
Thallium	205-1	0.30	0.25	0.22	0.26	16.51	ppb
Tin	118-1	0.43	0.36	0.34	0.38	12.98	ppb
Titanium	47-1	3.24	2.97	2.25	2.82	18.21	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:51:48 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.31	0.24	0.21	0.25	19.69	ppb
Vanadium	51-2	0.29	0.28	0.22	0.27	15.14	ppb
Yttrium	89-1				90		%
Yttrium	89-2				91		%
Zinc	66-2	14.44	14.12	13.98	14.18	1.67	ppb
Zirconium	90-1	0.79	0.73	0.70	0.74	6.24	ppb
Zirconium	91-1	0.80	0.76	0.66	0.74	10.10	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICV002 Instrumnet Name : P7
Client Sample ID : ICV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:46:17 DataFile Name : 014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	480.26	464.31	463.80	469.46	1.99	ppb
Antimony	121-1	206.82	212.36	214.11	211.10	1.80	ppb
Arsenic	75-2	218.54	215.68	209.52	214.58	2.15	ppb
Barium	135-1	99.22	101.93	101.65	100.93	1.48	ppb
Barium	137-1	99.38	101.38	101.25	100.67	1.11	ppb
Beryllium	9-1	106.79	110.08	110.93	109.27	2.00	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	97.88	99.05	99.25	98.72	0.75	ppb
Cadmium	106-1	94.32	97.07	95.49	95.63	1.44	ppb
Cadmium	111-1	107.72	110.97	111.00	109.90	1.71	ppb
Calcium	43-1	1924.19	2008.33	2025.50	1986.00	2.73	ppb
Calcium	44-1	1951.19	1993.29	2017.43	1987.30	1.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	103.39	100.75	100.19	101.44	1.68	ppb
Cobalt	59-2	103.69	100.27	99.97	101.31	2.04	ppb
Copper	63-2	99.64	96.84	95.53	97.34	2.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				100		%
Iron	56-2	2156.99	2061.34	2023.73	2080.69	3.30	ppb
Iron	57-2	2162.48	2075.67	2089.09	2109.08	2.22	ppb
Iron	54-2	2249.97	2174.42	2171.62	2198.67	2.02	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICV002 Instrumnet Name : P7
Client Sample ID : ICV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:46:17 DataFile Name : 014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	200.58	197.75	200.90	199.74	0.87	ppb
Lead	207-1	180.83	182.18	181.55	181.52	0.37	ppb
Lead	208-1	192.37	193.21	192.95	192.84	0.22	ppb
Lithium	6-1				106		%
Magnesium	24-2	1196.48	1146.28	1144.26	1162.34	2.55	ppb
Manganese	55-2	101.17	97.43	96.94	98.51	2.35	ppb
Molybdenum	94-1	0.02	0.06	0.09	0.06	59.92	ppb
Molybdenum	95-1	-0.06	-0.02	0.02	-0.02		ppb
Molybdenum	96-1	0.01	0.00	0.06	0.02	136.36	ppb
Molybdenum	97-1	-0.06	-0.05	-0.04	-0.05		ppb
Molybdenum	98-1	-0.01	0.02	0.03	0.01	127.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	109.14	105.91	105.71	106.92	1.80	ppb
Phosphorus	31-2	-22.96	-15.79	-17.28	-18.68		ppb
Potassium	39-2	2094.16	2008.40	2000.87	2034.48	2.55	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	208.18	215.77	217.85	213.93	2.38	ppb
Selenium	77-2	219.32	216.49	211.09	215.63	1.94	ppb
Selenium	78-2	218.82	222.86	217.81	219.83	1.22	ppb
Silicon	28-1	-0.72	-4.20	-0.91	-1.95		ppb
Silver	107-1	51.50	52.72	52.91	52.38	1.46	ppb
Silver	109-1	51.22	53.04	53.63	52.63	2.39	ppb
Sodium	23-2	2005.90	1951.07	1962.21	1973.06	1.47	ppb
Strontium	86-1	6.11	5.70	6.62	6.14	7.54	ppb
Strontium	88-1	5.98	6.20	6.33	6.17	2.92	ppb
Sulfur	34-1	-24.86	29.55	92.13	32.27	181.40	ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	197.85	198.16	197.17	197.73	0.26	ppb
Thallium	205-1	198.81	197.05	196.69	197.51	0.57	ppb
Tin	118-1	0.03	0.14	0.04	0.07	90.11	ppb
Titanium	47-1	-0.07	0.01	0.01	-0.02		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICV002 Instrumnet Name : P7
Client Sample ID : ICV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:46:17 DataFile Name : 014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	100.82	97.62	96.83	98.42	2.15	ppb
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	204.45	196.76	194.96	198.72	2.54	ppb
Zirconium	90-1	0.02	0.01	0.00	0.01	65.81	ppb
Zirconium	91-1	0.07	0.10	0.07	0.08	18.64	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICB002 Instrumnet Name : P7
Client Sample ID : ICB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:53:25 DataFile Name : 016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-8.46	-8.42	-8.48	-8.45		ppb
Antimony	121-1	-0.06	-0.06	-0.06	-0.06		ppb
Arsenic	75-2	-0.10	-0.13	-0.12	-0.12		ppb
Barium	135-1	-0.40	-0.40	-0.39	-0.40		ppb
Barium	137-1	-0.40	-0.40	-0.40	-0.40		ppb
Beryllium	9-1	-0.08	-0.12	-0.10	-0.10		ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.06	-0.04	-0.02	-0.04		ppb
Cadmium	106-1	-1.40	-0.45	0.18	-0.56		ppb
Cadmium	111-1	-0.17	-0.11	-0.06	-0.11		ppb
Calcium	43-1	-40.79	-39.57	-37.99	-39.45		ppb
Calcium	44-1	-42.35	-43.24	-43.75	-43.12		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.08	-0.06	-0.08	-0.07		ppb
Cobalt	59-2	-0.08	-0.08	-0.08	-0.08		ppb
Copper	63-2	-0.85	-0.86	-0.83	-0.85		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	56-2	-20.70	-20.78	-20.85	-20.78		ppb
Iron	57-2	-21.67	-22.21	-21.72	-21.87		ppb
Iron	54-2	-21.12	-20.70	-21.10	-20.97		ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICB002 Instrumnet Name : P7
Client Sample ID : ICB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:53:25 DataFile Name : 016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.36	-0.36	-0.37	-0.36		ppb
Lead	207-1	-0.36	-0.36	-0.36	-0.36		ppb
Lead	208-1	-0.36	-0.36	-0.36	-0.36		ppb
Lithium	6-1				107		%
Magnesium	24-2	-40.91	-40.64	-40.70	-40.75		ppb
Manganese	55-2	-0.79	-0.80	-0.80	-0.80		ppb
Molybdenum	94-1	-0.73	-0.73	-0.73	-0.73		ppb
Molybdenum	95-1	-0.78	-0.78	-0.77	-0.77		ppb
Molybdenum	96-1	-0.74	-0.74	-0.75	-0.74		ppb
Molybdenum	97-1	-0.76	-0.77	-0.77	-0.77		ppb
Molybdenum	98-1	-0.76	-0.75	-0.76	-0.76		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.10	-0.05	-0.10	-0.08		ppb
Phosphorus	31-2	-10.85	-19.87	-19.34	-16.69		ppb
Potassium	39-2	-19.99	-19.03	-20.65	-19.89		ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	-0.15	-0.12	0.10	-0.06		ppb
Selenium	77-2	-0.24	-0.24	0.11	-0.12		ppb
Selenium	78-2	-1.32	-0.41	-1.82	-1.18		ppb
Silicon	28-1	-4.36	-4.37	-0.71	-3.14		ppb
Silver	107-1	-0.07	-0.07	-0.07	-0.07		ppb
Silver	109-1	-0.07	-0.07	-0.08	-0.07		ppb
Sodium	23-2	-37.55	-38.06	-38.36	-37.99		ppb
Strontium	86-1	-1.93	-2.10	-1.83	-1.95		ppb
Strontium	88-1	-1.88	-1.91	-1.87	-1.89		ppb
Sulfur	34-1	168.16	207.87	263.21	213.08	22.41	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	-0.06	-0.07	-0.06	-0.06		ppb
Thallium	205-1	-0.07	-0.07	-0.07	-0.07		ppb
Tin	118-1	-0.06	-0.07	-0.07	-0.07		ppb
Titanium	47-1	-0.83	-0.80	-0.83	-0.82		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICB002 Instrumnet Name : P7
Client Sample ID : ICB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:53:25 DataFile Name : 016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	-0.07	-0.07	-0.07	-0.07		ppb
Vanadium	51-2	-0.08	-0.08	-0.08	-0.08		ppb
Yttrium	89-1				101		%
Yttrium	89-2				103		%
Zinc	66-2	-0.89	-0.76	-0.83	-0.82		ppb
Zirconium	90-1	-0.07	-0.07	-0.06	-0.07		ppb
Zirconium	91-1	-0.06	-0.05	-0.06	-0.06		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSA002 Instrumnet Name : P7
Client Sample ID : ICSA002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:56:41 DataFile Name : 017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	98301.39	93735.31	92569.29	94868.66	3.19	ppb
Antimony	121-1	1.12	1.21	1.17	1.17	3.55	ppb
Arsenic	75-2	0.25	0.30	0.30	0.28	9.67	ppb
Barium	135-1	1.33	1.36	1.33	1.34	1.40	ppb
Barium	137-1	1.37	1.30	1.30	1.32	2.95	ppb
Beryllium	9-1	0.18	0.28	0.29	0.25	24.53	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.26	9.39	8.93	9.20	2.58	ppb
Cadmium	106-1	-3.24	-4.19	-3.88	-3.77		ppb
Cadmium	111-1	0.19	-0.03	0.07	0.07	147.25	ppb
Calcium	43-1	98622.30	104154.60	100932.70	101236.53	2.74	ppb
Calcium	44-1	100105.37	102952.86	101294.35	101450.86	1.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.10	20.45	20.12	20.56	2.43	ppb
Cobalt	59-2	1.29	1.27	1.30	1.28	1.18	ppb
Copper	63-2	7.44	7.19	7.10	7.24	2.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				99		%
Indium	115-1				93		%
Indium	115-2				89		%
Iron	56-2	112660.70	107872.90	105893.17	108808.93	3.20	ppb
Iron	57-2	110901.59	108623.95	104140.31	107888.62	3.19	ppb
Iron	54-2	112403.97	109505.85	105543.43	109151.08	3.16	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSA002 Instrumnet Name : P7
Client Sample ID : ICSA002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:56:41 DataFile Name : 017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.87	4.66	4.65	4.73	2.60	ppb
Lead	207-1	4.46	4.16	4.14	4.25	4.28	ppb
Lead	208-1	4.52	4.36	4.34	4.41	2.26	ppb
Lithium	6-1				102		%
Magnesium	24-2	106684.18	102213.76	101293.12	103397.02	2.79	ppb
Manganese	55-2	8.31	8.06	7.65	8.01	4.17	ppb
Molybdenum	94-1	1602.57	1622.45	1604.89	1609.97	0.68	ppb
Molybdenum	95-1	1966.35	1975.57	1970.30	1970.74	0.23	ppb
Molybdenum	96-1	1908.25	1949.48	1946.26	1934.66	1.19	ppb
Molybdenum	97-1	1933.05	1999.00	1999.73	1977.26	1.94	ppb
Molybdenum	98-1	1965.07	1993.60	1972.89	1977.19	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.05	5.54	5.42	5.67	5.87	ppb
Phosphorus	31-2	109204.07	105300.16	103606.30	106036.84	2.71	ppb
Potassium	39-2	105829.54	101673.68	100649.59	102717.60	2.67	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				89		%
Scandium	45-2				89		%
Selenium	82-1	0.18	-0.30	-0.01	-0.04		ppb
Selenium	77-2	-0.04	-0.04	0.15	0.02	515.31	ppb
Selenium	78-2	-0.27	-1.00	-0.69	-0.66		ppb
Silicon	28-1	-4.58	-4.86	-4.94	-4.79		ppb
Silver	107-1	0.03	0.02	0.02	0.03	31.13	ppb
Silver	109-1	0.04	0.04	0.02	0.03	19.52	ppb
Sodium	23-2	107564.76	104534.07	101571.10	104556.64	2.87	ppb
Strontium	86-1	838.37	845.28	852.06	845.24	0.81	ppb
Strontium	88-1	837.38	847.27	846.14	843.60	0.64	ppb
Sulfur	34-1	109706.53	109842.66	109989.26	109846.15	0.13	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	0.05	0.07	0.06	0.06	18.88	ppb
Thallium	205-1	0.05	0.06	0.08	0.06	20.63	ppb
Tin	118-1	0.38	0.30	0.24	0.31	22.80	ppb
Titanium	47-1	2033.64	2080.42	2073.11	2062.39	1.22	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSA002 Instrumnet Name : P7
Client Sample ID : ICSA002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:56:41 DataFile Name : 017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	2.47	ppb
Vanadium	51-2	0.22	0.22	0.20	0.21	6.08	ppb
Yttrium	89-1				92		%
Yttrium	89-2				92		%
Zinc	66-2	13.99	13.44	13.38	13.60	2.47	ppb
Zirconium	90-1	0.02	0.01	0.01	0.01	17.42	ppb
Zirconium	91-1	0.03	0.05	0.04	0.04	28.46	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSAB002 Instrumnet Name : P7
Client Sample ID : ICSAB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:59:47 DataFile Name : 018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90848.76	90791.36	90792.37	90810.83	0.04	ppb
Antimony	121-1	22.33	22.74	22.47	22.51	0.92	ppb
Arsenic	75-2	22.24	21.62	21.72	21.86	1.53	ppb
Barium	135-1	21.93	22.57	22.62	22.38	1.72	ppb
Barium	137-1	22.33	22.73	22.42	22.49	0.93	ppb
Beryllium	9-1	20.93	21.95	21.95	21.61	2.71	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	27.56	26.26	26.30	26.71	2.78	ppb
Cadmium	106-1	14.72	13.53	15.10	14.45	5.67	ppb
Cadmium	111-1	21.33	21.61	21.45	21.46	0.66	ppb
Calcium	43-1	99707.93	100082.89	101718.74	100503.19	1.06	ppb
Calcium	44-1	100702.26	100795.67	101534.02	101010.65	0.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.96	40.92	40.49	40.79	0.64	ppb
Cobalt	59-2	22.21	22.18	22.18	22.19	0.08	ppb
Copper	63-2	26.63	26.67	26.80	26.70	0.33	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				104		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	56-2	104472.92	103371.37	103547.92	103797.40	0.57	ppb
Iron	57-2	103577.90	104056.41	102102.41	103245.58	0.99	ppb
Iron	54-2	104940.98	104504.93	103702.16	104382.69	0.60	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSAB002 Instrumnet Name : P7
Client Sample ID : ICSAB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:59:47 DataFile Name : 018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	25.54	25.37	26.01	25.64	1.29	ppb
Lead	207-1	24.18	24.23	24.72	24.37	1.22	ppb
Lead	208-1	24.45	24.50	25.00	24.65	1.25	ppb
Lithium	6-1				104		%
Magnesium	24-2	98981.62	99008.06	99125.29	99038.32	0.08	ppb
Manganese	55-2	28.70	28.94	28.47	28.70	0.81	ppb
Molybdenum	94-1	1569.67	1575.64	1592.87	1579.40	0.76	ppb
Molybdenum	95-1	1948.87	1958.93	1945.50	1951.10	0.36	ppb
Molybdenum	96-1	1928.74	1897.73	1928.89	1918.45	0.94	ppb
Molybdenum	97-1	1934.37	1929.37	1959.91	1941.22	0.84	ppb
Molybdenum	98-1	1951.02	1960.17	1961.34	1957.51	0.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.83	27.17	27.11	27.04	0.67	ppb
Phosphorus	31-2	101808.32	101274.72	101342.06	101475.03	0.29	ppb
Potassium	39-2	97975.61	97900.49	98933.23	98269.78	0.59	ppb
Rhodium	103-1				90		%
Rhodium	103-2				92		%
Scandium	45-1				91		%
Scandium	45-2				93		%
Selenium	82-1	21.51	21.99	22.30	21.93	1.82	ppb
Selenium	77-2	19.18	17.93	22.16	19.76	11.01	ppb
Selenium	78-2	20.55	22.69	21.96	21.73	5.01	ppb
Silicon	28-1	-4.62	-4.74	-4.62	-4.66		ppb
Silver	107-1	20.10	20.42	20.26	20.26	0.78	ppb
Silver	109-1	20.34	20.51	20.70	20.52	0.88	ppb
Sodium	23-2	100151.17	100280.42	99169.34	99866.97	0.61	ppb
Strontium	86-1	839.88	840.67	838.05	839.53	0.16	ppb
Strontium	88-1	843.00	837.10	847.03	842.38	0.59	ppb
Sulfur	34-1	107837.77	106611.43	108842.84	107764.01	1.04	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	21.03	20.92	21.54	21.16	1.56	ppb
Thallium	205-1	20.71	20.69	21.33	20.91	1.73	ppb
Tin	118-1	0.15	0.16	0.16	0.16	5.73	ppb
Titanium	47-1	2027.08	2027.95	2050.94	2035.32	0.66	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSAB002 Instrumnet Name : P7
Client Sample ID : ICSAB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:59:47 DataFile Name : 018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	22.43	ppb
Vanadium	51-2	21.11	21.26	20.94	21.10	0.76	ppb
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	32.81	33.21	32.54	32.85	1.02	ppb
Zirconium	90-1	0.01	0.00	0.01	0.00	91.66	ppb
Zirconium	91-1	0.05	0.03	0.01	0.03	60.28	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV006 Instrumnet Name : P7
Client Sample ID : CCV006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:02:50 DataFile Name : 019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49297.32	48965.65	49556.94	49273.30	0.60	ppb
Antimony	121-1	481.91	494.62	494.36	490.30	1.48	ppb
Arsenic	75-2	485.65	489.99	486.89	487.51	0.46	ppb
Barium	135-1	2417.63	2473.73	2483.00	2458.12	1.44	ppb
Barium	137-1	2453.01	2481.26	2487.27	2473.85	0.74	ppb
Beryllium	9-1	481.27	476.37	483.46	480.37	0.76	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	475.67	487.17	483.97	482.27	1.23	ppb
Cadmium	106-1	481.38	488.31	490.06	486.59	0.94	ppb
Cadmium	111-1	470.19	475.98	479.68	475.28	1.01	ppb
Calcium	43-1	242977.20	245469.75	245290.31	244579.08	0.57	ppb
Calcium	44-1	242684.85	245303.56	245991.78	244660.06	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	486.98	488.10	491.85	488.98	0.52	ppb
Cobalt	59-2	478.45	476.67	472.92	476.01	0.59	ppb
Copper	63-2	4641.22	4647.45	4694.17	4660.95	0.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				92		%
Indium	115-2				90		%
Iron	56-2	126259.16	126404.34	127146.96	126603.48	0.38	ppb
Iron	57-2	125286.89	125246.92	124385.42	124973.08	0.41	ppb
Iron	54-2	126963.38	126896.07	127147.02	127002.15	0.10	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV006 Instrumnet Name : P7
Client Sample ID : CCV006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:02:50 DataFile Name : 019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2517.87	2475.69	2569.73	2521.10	1.87	ppb
Lead	207-1	2482.08	2500.13	2542.09	2508.10	1.23	ppb
Lead	208-1	2495.14	2497.06	2531.55	2507.92	0.82	ppb
Lithium	6-1				101		%
Magnesium	24-2	262219.22	260980.77	261832.40	261677.46	0.24	ppb
Manganese	55-2	4864.71	4871.96	4896.05	4877.57	0.34	ppb
Molybdenum	94-1	4909.50	5047.51	4973.18	4976.73	1.39	ppb
Molybdenum	95-1	4878.13	4981.68	4966.71	4942.18	1.13	ppb
Molybdenum	96-1	4890.51	4967.19	4967.63	4941.78	0.90	ppb
Molybdenum	97-1	4917.46	4989.79	4929.91	4945.72	0.78	ppb
Molybdenum	98-1	4875.33	4966.60	4925.22	4922.38	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	472.02	466.44	469.83	469.43	0.60	ppb
Phosphorus	31-2	10089.77	9798.95	9994.82	9961.18	1.49	ppb
Potassium	39-2	122666.59	122516.59	122451.62	122544.93	0.09	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				90		%
Scandium	45-2				92		%
Selenium	82-1	465.00	477.17	475.99	472.72	1.42	ppb
Selenium	77-2	466.83	472.44	491.55	476.94	2.72	ppb
Selenium	78-2	469.14	481.24	462.14	470.84	2.05	ppb
Silicon	28-1	514.69	515.49	519.02	516.40	0.45	ppb
Silver	107-1	480.10	482.72	484.72	482.51	0.48	ppb
Silver	109-1	476.09	483.98	481.14	480.40	0.83	ppb
Sodium	23-2	248885.49	249626.55	251205.97	249906.00	0.47	ppb
Strontium	86-1	12143.00	12293.84	12490.15	12309.00	1.41	ppb
Strontium	88-1	12320.63	12325.19	12314.92	12320.25	0.04	ppb
Sulfur	34-1	9264.46	9301.40	9338.64	9301.50	0.40	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	505.57	497.65	514.17	505.80	1.63	ppb
Thallium	205-1	505.60	496.44	515.46	505.83	1.88	ppb
Tin	118-1	490.51	497.51	495.09	494.37	0.72	ppb
Titanium	47-1	4954.23	4904.60	4865.65	4908.16	0.90	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV006 Instrumnet Name : P7
Client Sample ID : CCV006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:02:50 DataFile Name : 019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	500.95	510.04	512.88	507.96	1.23	ppb
Vanadium	51-2	498.89	497.26	501.62	499.26	0.44	ppb
Yttrium	89-1				94		%
Yttrium	89-2				93		%
Zinc	66-2	4604.25	4555.76	4604.74	4588.25	0.61	ppb
Zirconium	90-1	493.04	499.89	500.32	497.75	0.82	ppb
Zirconium	91-1	493.41	501.49	498.12	497.67	0.82	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB006 Instrumnet Name : P7
Client Sample ID : CCB006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:05:34 DataFile Name : 020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-2.78	-3.28	-4.54	-3.53		ppb
Antimony	121-1	0.25	0.17	0.12	0.18	36.27	ppb
Arsenic	75-2	-0.07	-0.08	-0.07	-0.07		ppb
Barium	135-1	0.51	0.23	0.06	0.27	84.04	ppb
Barium	137-1	0.61	0.21	0.04	0.29	103.43	ppb
Beryllium	9-1	0.10	0.08	0.04	0.08	36.18	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.21	0.04	0.05	0.10	92.60	ppb
Cadmium	106-1	-3.13	-4.02	-2.43	-3.19		ppb
Cadmium	111-1	-0.06	-0.22	-0.14	-0.14		ppb
Calcium	43-1	57.36	29.60	13.89	33.62	65.48	ppb
Calcium	44-1	60.86	27.82	4.59	31.09	90.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.03	-0.02	-0.02		ppb
Cobalt	59-2	-0.03	-0.04	-0.05	-0.04		ppb
Copper	63-2	-0.10	-0.16	-0.29	-0.18		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	56-2	-5.02	-8.03	-10.07	-7.71		ppb
Iron	57-2	-8.64	-11.73	-12.33	-10.90		ppb
Iron	54-2	-5.40	-9.22	-11.20	-8.61		ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB006 Instrumnet Name : P7
Client Sample ID : CCB006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:05:34 DataFile Name : 020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.59	0.31	0.13	0.35	68.22	ppb
Lead	207-1	0.60	0.32	0.13	0.35	67.45	ppb
Lead	208-1	0.60	0.33	0.11	0.35	70.43	ppb
Lithium	6-1				106		%
Magnesium	24-2	-12.96	-17.87	-20.79	-17.20		ppb
Manganese	55-2	-0.23	-0.33	-0.43	-0.33		ppb
Molybdenum	94-1	1.48	0.81	0.46	0.92	56.76	ppb
Molybdenum	95-1	1.39	0.78	0.33	0.83	63.62	ppb
Molybdenum	96-1	1.53	0.72	0.36	0.87	69.22	ppb
Molybdenum	97-1	1.53	0.75	0.32	0.87	71.00	ppb
Molybdenum	98-1	1.43	0.77	0.30	0.84	67.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.09	-0.08	-0.07	-0.08		ppb
Phosphorus	31-2	-20.54	-21.06	-27.72	-23.11		ppb
Potassium	39-2	-3.76	-10.45	-12.21	-8.81		ppb
Rhodium	103-1				96		%
Rhodium	103-2				99		%
Scandium	45-1				91		%
Scandium	45-2				94		%
Selenium	82-1	-0.45	0.02	-0.29	-0.24		ppb
Selenium	77-2	0.13	-0.24	-0.24	-0.12		ppb
Selenium	78-2	-0.99	-0.37	-1.52	-0.96		ppb
Silicon	28-1	-5.59	-5.58	-5.63	-5.60		ppb
Silver	107-1	0.17	0.09	0.04	0.10	68.30	ppb
Silver	109-1	0.15	0.09	0.04	0.10	58.77	ppb
Sodium	23-2	27.13	21.60	15.44	21.39	27.33	ppb
Strontium	86-1	2.82	1.68	-0.16	1.45	104.00	ppb
Strontium	88-1	3.10	1.51	0.38	1.66	82.28	ppb
Sulfur	34-1	-820.50	-742.58	-662.03	-741.70		ppb
Terbium	159-1				103		%
Terbium	159-2				104		%
Thallium	203-1	0.14	0.08	0.05	0.09	50.12	ppb
Thallium	205-1	0.13	0.08	0.04	0.08	54.39	ppb
Tin	118-1	0.14	0.09	0.03	0.09	65.76	ppb
Titanium	47-1	1.25	0.68	0.22	0.72	71.95	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB006 Instrumnet Name : P7
Client Sample ID : CCB006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:05:34 DataFile Name : 020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.12	0.05	0.02	0.06	81.05	ppb
Vanadium	51-2	-0.02	-0.02	-0.04	-0.03		ppb
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	-0.22	-0.37	-0.42	-0.34		ppb
Zirconium	90-1	0.16	0.10	0.05	0.10	54.77	ppb
Zirconium	91-1	0.17	0.11	0.05	0.11	53.56	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-04DLX16 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 16
Date & Time Acquired : 2025-01-14 15:52:07 DataFile Name : 021SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	646.26	650.80	645.55	647.54	0.44	ppb
Antimony	121-1	2.42	2.47	2.42	2.43	1.27	ppb
Arsenic	75-2	5.12	5.23	5.23	5.19	1.23	ppb
Barium	135-1	13.50	13.20	13.47	13.39	1.25	ppb
Barium	137-1	12.99	13.52	13.25	13.25	1.98	ppb
Beryllium	9-1	-0.04	0.00	-0.01	-0.01		ppb
Bismuth	209-1				112		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.77	3.13	3.17	3.02	7.35	ppb
Cadmium	106-1	-0.18	0.14	0.48	0.15	227.35	ppb
Cadmium	111-1	2.76	2.84	2.84	2.81	1.64	ppb
Calcium	43-1	213.26	214.44	229.83	219.18	4.22	ppb
Calcium	44-1	213.90	219.30	221.10	218.10	1.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.68	0.66	0.66	0.67	1.33	ppb
Cobalt	59-2	1.44	1.41	1.40	1.42	1.55	ppb
Copper	63-2	554.48	553.38	543.07	550.31	1.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				106		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	4626.93	4630.52	4604.48	4620.64	0.31	ppb
Iron	57-2	4631.22	4599.77	4602.24	4611.07	0.38	ppb
Iron	54-2	4725.04	4712.42	4693.33	4710.26	0.34	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-04DLX16 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 16
Date & Time Acquired : 2025-01-14 15:52:07 DataFile Name : 021SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1415.82	1414.57	1452.09	1427.49	1.49	ppb
Lead	207-1	1328.56	1349.95	1363.63	1347.38	1.31	ppb
Lead	208-1	1357.10	1365.93	1384.66	1369.23	1.03	ppb
Lithium	6-1				103		%
Magnesium	24-2	323.17	325.11	322.41	323.56	0.43	ppb
Manganese	55-2	1371.72	1367.54	1369.99	1369.75	0.15	ppb
Molybdenum	94-1	3.88	3.96	4.11	3.98	2.85	ppb
Molybdenum	95-1	4.86	4.93	5.06	4.95	2.02	ppb
Molybdenum	96-1	4.89	4.86	4.86	4.87	0.29	ppb
Molybdenum	97-1	4.98	4.95	4.93	4.95	0.50	ppb
Molybdenum	98-1	4.89	4.91	4.99	4.93	1.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.91	0.86	0.91	5.31	ppb
Phosphorus	31-2	71.33	61.10	71.51	67.98	8.77	ppb
Potassium	39-2	53.22	54.21	54.06	53.83	0.98	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	0.42	0.25	0.08	0.25	69.89	ppb
Selenium	77-2	0.78	1.47	0.44	0.90	58.39	ppb
Selenium	78-2	0.46	0.56	-0.36	0.22	229.08	ppb
Silicon	28-1	14.17	14.18	14.41	14.25	0.93	ppb
Silver	107-1	10.74	10.91	10.95	10.87	1.03	ppb
Silver	109-1	10.94	11.09	11.07	11.03	0.77	ppb
Sodium	23-2	-24.90	-24.83	-25.14	-24.96		ppb
Strontium	86-1	55.69	55.91	58.34	56.65	2.60	ppb
Strontium	88-1	55.81	56.06	56.23	56.03	0.37	ppb
Sulfur	34-1	839.52	927.95	986.65	918.04	8.07	ppb
Terbium	159-1				105		%
Terbium	159-2				106		%
Thallium	203-1	-0.03	-0.03	-0.03	-0.03		ppb
Thallium	205-1	-0.04	-0.04	-0.04	-0.04		ppb
Tin	118-1	7.66	7.68	7.75	7.69	0.61	ppb
Titanium	47-1	2.64	2.64	2.87	2.72	4.98	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-04DLX16 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 16
Date & Time Acquired : 2025-01-14 15:52:07 DataFile Name : 021SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.04	0.03	10.86	ppb
Vanadium	51-2	1.54	1.55	1.60	1.56	2.09	ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	500.92	500.52	498.45	499.96	0.26	ppb
Zirconium	90-1	-0.02	-0.03	-0.03	-0.03		ppb
Zirconium	91-1	0.00	-0.02	-0.02	-0.01		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-07DLX20 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:55:16 DataFile Name : 022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	53.17	53.46	53.17	53.27	0.31	ppb
Antimony	121-1	18.40	21.64	20.21	20.09	8.08	ppb
Arsenic	75-2	138.73	138.38	135.87	137.66	1.13	ppb
Barium	135-1	10.31	12.32	11.45	11.36	8.87	ppb
Barium	137-1	10.35	12.20	11.34	11.30	8.17	ppb
Beryllium	9-1	-0.11	-0.10	-0.10	-0.10		ppb
Bismuth	209-1				112		%
Bismuth	209-2				118		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.35	0.68	0.51	0.51	32.06	ppb
Cadmium	106-1	-0.57	0.51	-0.46	-0.17		ppb
Cadmium	111-1	0.34	0.50	0.40	0.41	19.44	ppb
Calcium	43-1	-19.36	-18.19	-16.18	-17.91		ppb
Calcium	44-1	-23.54	-17.21	-20.76	-20.50		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.36	0.35	0.31	0.34	7.09	ppb
Cobalt	59-2	0.02	0.02	0.04	0.03	41.71	ppb
Copper	63-2	374.14	379.77	383.75	379.22	1.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				105		%
Indium	115-1				100		%
Indium	115-2				105		%
Iron	56-2	6988.63	6910.89	7035.00	6978.17	0.90	ppb
Iron	57-2	6912.98	6971.13	6964.97	6949.69	0.46	ppb
Iron	54-2	6925.12	7001.59	7096.01	7007.58	1.22	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-07DLX20 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:55:16 DataFile Name : 022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2520.22	2897.52	2673.83	2697.19	7.03	ppb
Lead	207-1	2381.79	2732.12	2546.89	2553.60	6.86	ppb
Lead	208-1	2411.89	2789.01	2585.09	2595.33	7.27	ppb
Lithium	6-1				97		%
Magnesium	24-2	-27.50	-27.16	-27.19	-27.28		ppb
Manganese	55-2	59.54	59.42	59.64	59.53	0.19	ppb
Molybdenum	94-1	7.30	8.65	8.37	8.10	8.77	ppb
Molybdenum	95-1	8.95	10.89	10.05	9.96	9.77	ppb
Molybdenum	96-1	8.84	10.66	9.94	9.81	9.31	ppb
Molybdenum	97-1	9.05	11.10	10.29	10.15	10.14	ppb
Molybdenum	98-1	9.03	10.93	10.20	10.05	9.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.16	0.16	0.20	0.18	12.00	ppb
Phosphorus	31-2	19.10	24.42	-0.06	14.49	88.89	ppb
Potassium	39-2	175.67	175.53	180.86	177.35	1.72	ppb
Rhodium	103-1				100		%
Rhodium	103-2				106		%
Scandium	45-1				100		%
Scandium	45-2				109		%
Selenium	82-1	0.51	0.68	0.93	0.71	29.84	ppb
Selenium	77-2	1.31	0.62	0.61	0.85	47.68	ppb
Selenium	78-2	-0.20	0.07	-0.49	-0.21		ppb
Silicon	28-1	2.92	5.66	4.62	4.40	31.41	ppb
Silver	107-1	9.57	11.32	10.52	10.47	8.37	ppb
Silver	109-1	9.61	11.35	10.55	10.50	8.30	ppb
Sodium	23-2	-24.65	-25.31	-24.28	-24.75		ppb
Strontium	86-1	52.74	60.86	57.63	57.07	7.16	ppb
Strontium	88-1	50.94	61.34	57.38	56.55	9.28	ppb
Sulfur	34-1	1941.00	2970.18	2536.15	2482.45	20.81	ppb
Terbium	159-1				97		%
Terbium	159-2				107		%
Thallium	203-1	0.11	0.14	0.13	0.12	12.97	ppb
Thallium	205-1	0.10	0.14	0.11	0.12	15.56	ppb
Tin	118-1	2.85	3.32	3.09	3.08	7.65	ppb
Titanium	47-1	-0.55	-0.53	-0.49	-0.52		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-07DLX20 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:55:16 DataFile Name : 022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	-0.05	-0.04	-0.04	-0.04		ppb
Vanadium	51-2	1.04	0.99	1.00	1.01	2.68	ppb
Yttrium	89-1				99		%
Yttrium	89-2				107		%
Zinc	66-2	143.07	143.33	145.50	143.97	0.93	ppb
Zirconium	90-1	-0.07	-0.07	-0.06	-0.07		ppb
Zirconium	91-1	-0.03	-0.02	-0.02	-0.02		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-08DLX20 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:58:27 DataFile Name : 023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	113.53	116.60	114.72	114.95	1.35	ppb
Antimony	121-1	6.79	6.97	6.86	6.87	1.27	ppb
Arsenic	75-2	64.95	64.37	64.63	64.65	0.45	ppb
Barium	135-1	4.92	4.76	4.90	4.86	1.81	ppb
Barium	137-1	4.88	4.94	4.99	4.93	1.11	ppb
Beryllium	9-1	-0.10	-0.08	-0.10	-0.09		ppb
Bismuth	209-1				114		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.06	4.21	4.42	4.23	4.28	ppb
Cadmium	106-1	3.00	3.89	3.76	3.55	13.49	ppb
Cadmium	111-1	4.49	4.65	4.74	4.63	2.73	ppb
Calcium	43-1	9.94	7.17	11.35	9.49	22.40	ppb
Calcium	44-1	4.91	4.43	5.39	4.91	9.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.40	0.39	0.38	0.39	2.37	ppb
Cobalt	59-2	0.42	0.42	0.41	0.42	0.99	ppb
Copper	63-2	308.90	310.12	308.98	309.33	0.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				106		%
Indium	115-1				107		%
Indium	115-2				105		%
Iron	56-2	6920.08	6962.32	6887.79	6923.40	0.54	ppb
Iron	57-2	6950.19	6981.97	6901.62	6944.59	0.58	ppb
Iron	54-2	7081.22	7115.30	7076.33	7090.95	0.30	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-08DLX20 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:58:27 DataFile Name : 023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2435.64	2465.16	2465.59	2455.46	0.70	ppb
Lead	207-1	2340.38	2364.68	2333.09	2346.05	0.71	ppb
Lead	208-1	2360.78	2407.30	2365.96	2378.01	1.07	ppb
Lithium	6-1				105		%
Magnesium	24-2	5.44	5.23	4.39	5.02	11.12	ppb
Manganese	55-2	161.30	161.41	159.21	160.64	0.77	ppb
Molybdenum	94-1	6.06	6.10	6.14	6.10	0.66	ppb
Molybdenum	95-1	7.45	7.54	7.57	7.52	0.88	ppb
Molybdenum	96-1	7.48	7.67	7.49	7.55	1.42	ppb
Molybdenum	97-1	7.43	7.66	7.66	7.58	1.71	ppb
Molybdenum	98-1	7.53	7.72	7.45	7.57	1.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.20	0.31	0.24	0.25	22.84	ppb
Phosphorus	31-2	11.82	23.22	15.46	16.83	34.60	ppb
Potassium	39-2	150.88	150.72	150.50	150.70	0.12	ppb
Rhodium	103-1				107		%
Rhodium	103-2				107		%
Scandium	45-1				109		%
Scandium	45-2				109		%
Selenium	82-1	0.35	0.26	0.18	0.27	32.79	ppb
Selenium	77-2	0.61	0.27	0.80	0.56	48.00	ppb
Selenium	78-2	1.40	1.23	-0.09	0.85	95.86	ppb
Silicon	28-1	4.59	4.70	4.27	4.52	4.95	ppb
Silver	107-1	11.08	11.18	11.21	11.15	0.61	ppb
Silver	109-1	11.07	11.19	11.21	11.16	0.70	ppb
Sodium	23-2	-26.24	-26.26	-26.34	-26.28		ppb
Strontium	86-1	34.95	35.98	37.26	36.06	3.21	ppb
Strontium	88-1	37.11	36.61	36.59	36.77	0.81	ppb
Sulfur	34-1	2718.48	2843.38	2709.31	2757.06	2.72	ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	0.05	0.07	0.07	0.06	19.70	ppb
Thallium	205-1	0.05	0.05	0.06	0.06	8.33	ppb
Tin	118-1	2.37	2.35	2.45	2.39	2.03	ppb
Titanium	47-1	-0.57	-0.54	-0.55	-0.56		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-08DLX20 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:58:27 DataFile Name : 023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	-0.03	-0.03	-0.03	-0.03		ppb
Vanadium	51-2	0.99	0.97	0.88	0.95	6.51	ppb
Yttrium	89-1				107		%
Yttrium	89-2				107		%
Zinc	66-2	918.73	913.26	907.16	913.05	0.63	ppb
Zirconium	90-1	-0.06	-0.07	-0.06	-0.06		ppb
Zirconium	91-1	-0.04	-0.03	-0.03	-0.03		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-10DLX20 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:01:35 DataFile Name : 024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	710.60	720.87	720.91	717.46	0.83	ppb
Antimony	121-1	0.43	0.44	0.41	0.43	3.27	ppb
Arsenic	75-2	4.46	4.14	4.54	4.38	4.83	ppb
Barium	135-1	14.36	14.63	14.41	14.47	1.01	ppb
Barium	137-1	14.26	14.29	14.25	14.27	0.14	ppb
Beryllium	9-1	-0.05	-0.04	-0.04	-0.05		ppb
Bismuth	209-1				107		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.03	1.31	1.25	1.19	12.15	ppb
Cadmium	106-1	1.69	1.27	0.70	1.22	40.76	ppb
Cadmium	111-1	1.26	1.19	1.20	1.21	3.32	ppb
Calcium	43-1	205.48	197.78	200.20	201.15	1.96	ppb
Calcium	44-1	190.71	191.62	193.98	192.10	0.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.95	0.92	0.94	0.93	1.80	ppb
Cobalt	59-2	0.64	0.64	0.67	0.65	3.02	ppb
Copper	63-2	33.47	33.96	33.13	33.52	1.25	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				106		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	4164.61	4197.62	4182.75	4181.66	0.40	ppb
Iron	57-2	4159.26	4216.95	4157.90	4178.04	0.81	ppb
Iron	54-2	4268.89	4319.07	4293.77	4293.91	0.58	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-10DLX20 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:01:35 DataFile Name : 024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	268.25	270.79	272.26	270.43	0.75	ppb
Lead	207-1	263.56	267.34	265.04	265.31	0.72	ppb
Lead	208-1	264.36	267.53	265.62	265.84	0.60	ppb
Lithium	6-1				103		%
Magnesium	24-2	437.12	440.30	441.97	439.80	0.56	ppb
Manganese	55-2	142.31	143.41	142.29	142.67	0.45	ppb
Molybdenum	94-1	0.27	0.23	0.23	0.24	10.03	ppb
Molybdenum	95-1	0.38	0.40	0.37	0.38	3.49	ppb
Molybdenum	96-1	0.44	0.41	0.43	0.42	4.21	ppb
Molybdenum	97-1	0.37	0.41	0.43	0.40	8.01	ppb
Molybdenum	98-1	0.35	0.37	0.37	0.36	3.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.63	0.59	0.59	0.60	3.95	ppb
Phosphorus	31-2	150.03	165.51	146.40	153.98	6.59	ppb
Potassium	39-2	106.78	107.99	109.50	108.09	1.26	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	-0.15	0.07	-0.18	-0.08		ppb
Selenium	77-2	-0.24	0.27	0.78	0.27	190.84	ppb
Selenium	78-2	0.86	0.43	0.43	0.58	43.01	ppb
Silicon	28-1	13.89	13.88	13.96	13.91	0.30	ppb
Silver	107-1	1.20	1.31	1.26	1.25	4.52	ppb
Silver	109-1	1.27	1.31	1.22	1.27	3.60	ppb
Sodium	23-2	-17.12	-17.14	-16.55	-16.94		ppb
Strontium	86-1	76.93	76.92	76.56	76.80	0.27	ppb
Strontium	88-1	77.42	76.18	77.02	76.87	0.82	ppb
Sulfur	34-1	398.75	335.10	353.68	362.51	9.03	ppb
Terbium	159-1				105		%
Terbium	159-2				107		%
Thallium	203-1	-0.04	-0.05	-0.04	-0.05		ppb
Thallium	205-1	-0.05	-0.05	-0.05	-0.05		ppb
Tin	118-1	0.10	0.13	0.13	0.12	13.85	ppb
Titanium	47-1	7.36	7.09	7.00	7.15	2.63	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-10DLX20 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:01:35 DataFile Name : 024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.01	0.01	0.01	16.24	ppb
Vanadium	51-2	2.09	2.18	2.12	2.13	2.24	ppb
Yttrium	89-1				107		%
Yttrium	89-2				108		%
Zinc	66-2	282.16	284.56	285.32	284.01	0.58	ppb
Zirconium	90-1	-0.03	-0.03	-0.03	-0.03		ppb
Zirconium	91-1	-0.02	-0.02	-0.02	-0.02		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DLX20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:07:05 DataFile Name : 025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	183.43	184.11	186.69	184.74	0.93	ppb
Antimony	121-1	29.06	29.45	30.21	29.57	1.97	ppb
Arsenic	75-2	154.19	149.77	151.64	151.87	1.46	ppb
Barium	135-1	10.83	10.84	11.27	10.98	2.27	ppb
Barium	137-1	10.72	11.00	11.15	10.96	1.96	ppb
Beryllium	9-1	-0.10	-0.08	-0.07	-0.08		ppb
Bismuth	209-1				132		%
Bismuth	209-2				129		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.70	1.73	1.61	1.68	3.71	ppb
Cadmium	106-1	-0.58	0.57	2.50	0.83	187.43	ppb
Cadmium	111-1	1.45	1.54	1.70	1.56	8.21	ppb
Calcium	43-1	87.01	77.67	81.74	82.14	5.70	ppb
Calcium	44-1	72.76	73.88	75.59	74.08	1.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.73	0.74	0.67	0.71	5.21	ppb
Cobalt	59-2	0.18	0.17	0.16	0.17	6.27	ppb
Copper	63-2	706.48	719.23	714.28	713.33	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				107		%
Indium	115-1				108		%
Indium	115-2				108		%
Iron	56-2	10006.02	10056.12	10019.29	10027.15	0.26	ppb
Iron	57-2	9957.12	9920.25	9966.81	9948.06	0.25	ppb
Iron	54-2	9993.24	10007.54	10104.32	10035.03	0.60	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DLX20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:07:05 DataFile Name : 025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5285.94	5391.21	5399.89	5359.01	1.18	ppb
Lead	207-1	5049.07	5098.43	5139.53	5095.68	0.89	ppb
Lead	208-1	5088.99	5179.78	5181.05	5149.94	1.03	ppb
Lithium	6-1				106		%
Magnesium	24-2	21.73	22.38	23.30	22.47	3.51	ppb
Manganese	55-2	126.05	128.24	128.17	127.49	0.98	ppb
Molybdenum	94-1	21.38	21.81	22.12	21.77	1.70	ppb
Molybdenum	95-1	26.05	26.43	26.89	26.46	1.58	ppb
Molybdenum	96-1	25.87	26.33	26.60	26.26	1.41	ppb
Molybdenum	97-1	26.12	26.84	27.26	26.74	2.16	ppb
Molybdenum	98-1	26.51	26.67	27.10	26.76	1.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.23	0.26	0.25	0.25	5.45	ppb
Phosphorus	31-2	41.46	36.36	32.71	36.84	11.92	ppb
Potassium	39-2	99.03	103.75	103.52	102.10	2.61	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				111		%
Scandium	45-2				113		%
Selenium	82-1	1.89	1.58	1.86	1.78	9.57	ppb
Selenium	77-2	1.25	1.24	1.74	1.41	20.12	ppb
Selenium	78-2	1.70	0.06	0.66	0.81	103.38	ppb
Silicon	28-1	4.65	4.89	4.73	4.76	2.59	ppb
Silver	107-1	9.51	9.81	10.00	9.77	2.50	ppb
Silver	109-1	9.42	9.71	10.12	9.75	3.58	ppb
Sodium	23-2	-23.11	-22.32	-22.78	-22.73		ppb
Strontium	86-1	361.72	368.80	375.91	368.81	1.92	ppb
Strontium	88-1	364.31	366.98	373.65	368.31	1.31	ppb
Sulfur	34-1	1958.33	2041.34	2026.22	2008.63	2.20	ppb
Terbium	159-1				106		%
Terbium	159-2				108		%
Thallium	203-1	0.06	0.06	0.06	0.06	2.37	ppb
Thallium	205-1	0.05	0.06	0.06	0.06	8.59	ppb
Tin	118-1	3.85	3.99	3.99	3.94	2.06	ppb
Titanium	47-1	0.98	1.01	0.83	0.94	10.56	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DLX20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:07:05 DataFile Name : 025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.04	0.03	15.17	ppb
Vanadium	51-2	1.44	1.57	1.50	1.50	4.26	ppb
Yttrium	89-1				108		%
Yttrium	89-2				111		%
Zinc	66-2	373.36	373.35	377.47	374.73	0.63	ppb
Zirconium	90-1	-0.03	-0.03	-0.03	-0.03		ppb
Zirconium	91-1	0.01	0.02	0.03	0.02	42.04	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DL2X40 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 40
Date & Time Acquired : 2025-01-14 16:11:29 DataFile Name : 026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	91.15	90.94	90.70	90.93	0.25	ppb
Antimony	121-1	15.06	14.81	15.00	14.96	0.87	ppb
Arsenic	75-2	76.22	76.69	76.55	76.48	0.32	ppb
Barium	135-1	5.32	5.26	5.39	5.32	1.25	ppb
Barium	137-1	5.33	5.19	5.30	5.27	1.41	ppb
Beryllium	9-1	-0.12	-0.11	-0.08	-0.10		ppb
Bismuth	209-1				119		%
Bismuth	209-2				118		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.08	0.93	0.70	0.90	21.36	ppb
Cadmium	106-1	0.37	0.62	0.41	0.46	29.07	ppb
Cadmium	111-1	0.72	0.62	0.72	0.69	8.83	ppb
Calcium	43-1	25.14	24.20	24.79	24.71	1.91	ppb
Calcium	44-1	22.99	23.39	23.38	23.25	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.54	0.49	0.51	0.51	5.05	ppb
Cobalt	59-2	0.05	0.05	0.03	0.04	24.40	ppb
Copper	63-2	354.84	360.70	354.16	356.57	1.01	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				107		%
Indium	115-1				108		%
Indium	115-2				107		%
Iron	56-2	5008.91	4941.77	4987.90	4979.52	0.69	ppb
Iron	57-2	5009.12	5016.43	5030.61	5018.72	0.22	ppb
Iron	54-2	5143.84	5091.90	5125.64	5120.46	0.51	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DL2X40 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 40
Date & Time Acquired : 2025-01-14 16:11:29 DataFile Name : 026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2974.77	2949.71	3002.30	2975.59	0.88	ppb
Lead	207-1	2808.25	2845.21	2841.09	2831.52	0.72	ppb
Lead	208-1	2854.31	2880.71	2888.04	2874.36	0.62	ppb
Lithium	6-1				105		%
Magnesium	24-2	-7.80	-9.35	-8.47	-8.54		ppb
Manganese	55-2	63.83	63.13	63.45	63.47	0.55	ppb
Molybdenum	94-1	10.47	10.51	10.76	10.58	1.48	ppb
Molybdenum	95-1	12.73	12.95	12.93	12.87	0.93	ppb
Molybdenum	96-1	12.81	12.78	12.67	12.75	0.56	ppb
Molybdenum	97-1	12.86	12.84	13.12	12.94	1.20	ppb
Molybdenum	98-1	12.89	13.07	13.00	12.98	0.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.18	0.23	0.21	0.21	11.30	ppb
Phosphorus	31-2	5.85	5.79	0.92	4.19	67.53	ppb
Potassium	39-2	43.29	42.35	46.38	44.00	4.79	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				111		%
Scandium	45-2				113		%
Selenium	82-1	0.86	1.11	0.65	0.88	26.59	ppb
Selenium	77-2	0.42	0.25	0.59	0.42	39.83	ppb
Selenium	78-2	0.45	0.54	0.30	0.43	27.63	ppb
Silicon	28-1	2.22	2.12	2.28	2.21	3.71	ppb
Silver	107-1	4.92	4.80	4.86	4.86	1.22	ppb
Silver	109-1	4.85	4.82	4.95	4.87	1.36	ppb
Sodium	23-2	-26.79	-27.58	-26.71	-27.03		ppb
Strontium	86-1	183.34	184.22	183.26	183.61	0.29	ppb
Strontium	88-1	185.06	182.76	183.69	183.84	0.63	ppb
Sulfur	34-1	1120.51	1052.11	1060.23	1077.62	3.47	ppb
Terbium	159-1				106		%
Terbium	159-2				109		%
Thallium	203-1	0.01	0.00	0.01	0.01	38.75	ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	2.02	1.98	1.98	1.99	1.29	ppb
Titanium	47-1	0.11	0.10	0.10	0.10	5.87	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DL2X40 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 40
Date & Time Acquired : 2025-01-14 16:11:29 DataFile Name : 026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	-0.01	-0.01	-0.01	-0.01		ppb
Vanadium	51-2	0.78	0.75	0.76	0.76	2.47	ppb
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	190.36	184.87	187.55	187.59	1.46	ppb
Zirconium	90-1	-0.05	-0.05	-0.05	-0.05		ppb
Zirconium	91-1	-0.03	-0.04	-0.03	-0.03		ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV007 Instrumnet Name : P7
Client Sample ID : CCV007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:14:40 DataFile Name : 027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49059.83	49621.03	49573.55	49418.14	0.63	ppb
Antimony	121-1	481.57	487.43	482.94	483.98	0.63	ppb
Arsenic	75-2	478.94	479.52	483.68	480.71	0.54	ppb
Barium	135-1	2433.70	2455.87	2459.24	2449.61	0.57	ppb
Barium	137-1	2416.45	2435.06	2470.93	2440.81	1.13	ppb
Beryllium	9-1	482.44	495.16	494.43	490.68	1.46	ppb
Bismuth	209-1				99		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	484.33	477.84	483.14	481.77	0.72	ppb
Cadmium	106-1	494.84	491.42	490.15	492.14	0.49	ppb
Cadmium	111-1	475.07	477.36	476.39	476.27	0.24	ppb
Calcium	43-1	237150.00	242369.13	247028.53	242182.55	2.04	ppb
Calcium	44-1	238462.24	247157.99	247459.40	244359.87	2.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	480.50	485.28	490.67	485.48	1.05	ppb
Cobalt	59-2	471.45	475.91	477.73	475.03	0.68	ppb
Copper	63-2	4580.97	4623.70	4664.77	4623.15	0.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				93		%
Indium	115-2				89		%
Iron	56-2	124742.45	125883.30	127439.02	126021.59	1.07	ppb
Iron	57-2	124379.20	125728.98	126818.33	125642.17	0.97	ppb
Iron	54-2	125507.06	126153.20	126022.58	125894.28	0.27	ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV007 Instrumnet Name : P7
Client Sample ID : CCV007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:14:40 DataFile Name : 027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2463.79	2511.80	2533.39	2502.99	1.42	ppb
Lead	207-1	2441.22	2502.42	2516.87	2486.84	1.61	ppb
Lead	208-1	2431.52	2495.87	2505.63	2477.67	1.63	ppb
Lithium	6-1				103		%
Magnesium	24-2	264816.32	264935.41	264045.88	264599.20	0.18	ppb
Manganese	55-2	4763.61	4818.07	4851.56	4811.08	0.92	ppb
Molybdenum	94-1	4798.36	4936.66	4948.00	4894.34	1.70	ppb
Molybdenum	95-1	4782.63	4938.01	4985.62	4902.09	2.17	ppb
Molybdenum	96-1	4833.76	4896.87	4969.83	4900.15	1.39	ppb
Molybdenum	97-1	4835.83	4904.62	5024.74	4921.73	1.94	ppb
Molybdenum	98-1	4815.73	4971.28	4992.82	4926.61	1.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	464.92	468.67	468.17	467.25	0.44	ppb
Phosphorus	31-2	9858.51	9871.59	9989.54	9906.55	0.73	ppb
Potassium	39-2	122265.04	122090.04	122725.87	122360.31	0.27	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				91		%
Scandium	45-2				91		%
Selenium	82-1	459.33	471.53	477.30	469.38	1.95	ppb
Selenium	77-2	466.64	458.83	504.12	476.53	5.08	ppb
Selenium	78-2	465.15	470.73	476.59	470.82	1.22	ppb
Silicon	28-1	510.93	523.01	528.17	520.70	1.70	ppb
Silver	107-1	479.03	473.85	478.85	477.24	0.62	ppb
Silver	109-1	480.96	484.13	478.49	481.19	0.59	ppb
Sodium	23-2	247254.45	249711.01	250266.07	249077.18	0.64	ppb
Strontium	86-1	11931.12	12240.30	12355.07	12175.50	1.80	ppb
Strontium	88-1	11991.98	12132.51	12461.29	12195.26	1.98	ppb
Sulfur	34-1	9932.66	10173.05	10150.69	10085.47	1.32	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	492.80	498.18	499.07	496.68	0.68	ppb
Thallium	205-1	491.11	495.34	504.73	497.06	1.40	ppb
Tin	118-1	487.63	491.61	503.71	494.32	1.69	ppb
Titanium	47-1	4826.87	5012.88	4981.17	4940.31	2.01	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV007 Instrumnet Name : P7
Client Sample ID : CCV007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:14:40 DataFile Name : 027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	488.33	512.71	507.81	502.95	2.56	ppb
Vanadium	51-2	483.70	501.75	495.69	493.71	1.86	ppb
Yttrium	89-1				94		%
Yttrium	89-2				93		%
Zinc	66-2	4572.97	4610.60	4640.09	4607.89	0.73	ppb
Zirconium	90-1	485.71	490.48	493.29	489.83	0.78	ppb
Zirconium	91-1	482.34	496.76	502.98	494.03	2.14	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB007 Instrumnet Name : P7
Client Sample ID : CCB007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:17:23 DataFile Name : 028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-1.20	-2.76	-3.85	-2.60		ppb
Antimony	121-1	0.18	0.14	0.13	0.15	20.29	ppb
Arsenic	75-2	-0.04	-0.09	-0.06	-0.06		ppb
Barium	135-1	0.32	0.18	0.10	0.20	56.19	ppb
Barium	137-1	0.36	0.16	0.06	0.19	79.63	ppb
Beryllium	9-1	0.14	0.05	0.00	0.07	102.57	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.14	0.17	0.09	0.13	31.70	ppb
Cadmium	106-1	-2.66	-4.50	-2.63	-3.26		ppb
Cadmium	111-1	-0.10	-0.27	-0.12	-0.16		ppb
Calcium	43-1	39.75	23.57	17.73	27.02	42.22	ppb
Calcium	44-1	33.59	19.20	4.95	19.25	74.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	-0.02	-0.01	0.00	3450.93	ppb
Cobalt	59-2	0.00	-0.01	-0.03	-0.02		ppb
Copper	63-2	0.01	-0.18	-0.20	-0.12		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	-0.28	-3.29	-5.93	-3.17		ppb
Iron	57-2	-5.71	-7.22	-9.25	-7.39		ppb
Iron	54-2	-0.98	-3.13	-6.87	-3.66		ppb
Krypton	83-1						cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB007 Instrumnet Name : P7
Client Sample ID : CCB007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:17:23 DataFile Name : 028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.51	0.38	0.22	0.37	39.16	ppb
Lead	207-1	0.53	0.36	0.21	0.37	43.63	ppb
Lead	208-1	0.52	0.36	0.21	0.36	43.04	ppb
Lithium	6-1				105		%
Magnesium	24-2	-1.82	-7.84	-13.45	-7.71		ppb
Manganese	55-2	-0.11	-0.17	-0.30	-0.20		ppb
Molybdenum	94-1	0.94	0.62	0.45	0.67	36.94	ppb
Molybdenum	95-1	0.84	0.60	0.32	0.58	45.19	ppb
Molybdenum	96-1	0.89	0.61	0.38	0.63	40.84	ppb
Molybdenum	97-1	0.88	0.59	0.28	0.58	51.75	ppb
Molybdenum	98-1	0.87	0.59	0.36	0.61	41.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.06	-0.06	-0.04		ppb
Phosphorus	31-2	-23.39	-21.25	-25.44	-23.36		ppb
Potassium	39-2	-6.00	-7.90	-12.85	-8.92		ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				91		%
Scandium	45-2				93		%
Selenium	82-1	-0.30	-0.49	-0.89	-0.56		ppb
Selenium	77-2	-0.05	-0.24	-0.24	-0.18		ppb
Selenium	78-2	-0.70	-1.90	-1.27	-1.29		ppb
Silicon	28-1	-6.00	-5.91	-5.84	-5.92		ppb
Silver	107-1	0.10	0.07	0.05	0.07	34.43	ppb
Silver	109-1	0.12	0.07	0.05	0.08	45.80	ppb
Sodium	23-2	19.34	13.69	8.19	13.74	40.57	ppb
Strontium	86-1	1.65	0.50	0.46	0.87	77.60	ppb
Strontium	88-1	2.06	1.19	0.63	1.29	55.87	ppb
Sulfur	34-1	-582.99	-516.26	-538.17	-545.81		ppb
Terbium	159-1				103		%
Terbium	159-2				104		%
Thallium	203-1	0.08	0.06	0.03	0.05	47.40	ppb
Thallium	205-1	0.08	0.05	0.01	0.05	71.31	ppb
Tin	118-1	0.11	0.05	0.05	0.07	50.50	ppb
Titanium	47-1	0.76	0.53	0.18	0.49	60.32	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB007 Instrumnet Name : P7
Client Sample ID : CCB007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:17:23 DataFile Name : 028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.07	0.04	0.02	0.05	47.34	ppb
Vanadium	51-2	-0.02	-0.01	-0.02	-0.01		ppb
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	-0.03	-0.21	-0.22	-0.15		ppb
Zirconium	90-1	0.12	0.08	0.06	0.09	38.41	ppb
Zirconium	91-1	0.14	0.09	0.07	0.10	33.31	ppb

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:27:47 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2053	1950	1873	1959	4.61	cps
Antimony	121-1	850	913	847	870	4.32	cps
Arsenic	75-2	83	77	57	72	19.21	cps
Barium	135-1	1030	1177	1230	1146	9.04	cps
Barium	137-1	1887	2057	2120	2021	5.97	cps
Beryllium	9-1	157	153	160	157	2.13	cps
Bismuth	209-1	9778227	9882412	9711753	9790797	0.88	cps
Bismuth	209-2	7537045	7434650	7455982	7475892	0.72	cps
Bromine	81-1	15555	15462	15492	15503	0.31	cps
Bromine	81-2	117	197	133	149	28.35	cps
Cadmium	108-1	43	10	47	33	60.83	cps
Cadmium	106-1	9293	9213	9153	9220	0.76	cps
Cadmium	111-1	6715	6605	6588	6636	1.04	cps
Calcium	43-1	1220	1257	1290	1256	2.79	cps
Calcium	44-1	27843	27652	26924	27473	1.76	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1060	1170	1137	1122	5.03	cps
Cobalt	59-2	697	557	547	600	13.98	cps
Copper	63-2	5561	5788	5508	5619	2.65	cps
Dysprosium	156-1	7	3	10	7	50.03	cps
Dysprosium	156-2	3	13	13	10	57.75	cps
Erbium	164-1	63	50	87	67	27.84	cps
Erbium	164-2	50	27	53	43	33.52	cps
Gadolinium	160-1	80	50	93	74	29.81	cps
Gadolinium	160-2	557	640	623	607	7.27	cps
Holmium	165-1	15374710	15025761	14972633	15124368	1.44	cps
Holmium	165-2	10532174	10342192	10291980	10388782	1.22	cps
Indium	115-1	11464739	11341489	11568963	11458397	0.99	cps
Indium	115-2	4544317	4477683	4470244	4497415	0.91	cps
Iron	56-2	93753	94817	93790	94120	0.64	cps
Iron	57-2	3407	3327	3290	3342	1.79	cps
Iron	54-2	6385	6255	6475	6371	1.74	cps
Krypton	83-1	157	190	220	189	16.77	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:27:47 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4064	4114	4077	4085	0.63	cps
Lead	207-1	3537	3617	3487	3547	1.85	cps
Lead	208-1	16041	16618	16397	16352	1.78	cps
Lithium	6-1	1108389	1123317	1115021	1115576	0.67	cps
Magnesium	24-2	14794	15128	14987	14970	1.12	cps
Manganese	55-2	3177	2937	2684	2933	8.41	cps
Molybdenum	94-1	2824	3037	3010	2957	3.93	cps
Molybdenum	95-1	3997	4237	4244	4160	3.38	cps
Molybdenum	96-1	4407	4544	4331	4427	2.44	cps
Molybdenum	97-1	2634	2610	2564	2602	1.37	cps
Molybdenum	98-1	6528	6842	6468	6613	3.03	cps
Neodymium	150-1	10	7	3	7	50.03	cps
Neodymium	150-2	10	3	3	6	69.34	cps
Nickel	60-2	453	473	527	484	7.82	cps
Phosphorus	31-2	393	423	397	404	4.07	cps
Potassium	39-2	63023	63602	63163	63263	0.48	cps
Rhodium	103-1	10507069	10324548	10573547	10468388	1.23	cps
Rhodium	103-2	6478246	6389257	6375800	6414434	0.87	cps
Scandium	45-1	5502821	5567720	5604156	5558232	0.92	cps
Scandium	45-2	550027	549909	550778	550238	0.09	cps
Selenium	82-1	589	480	494	521	11.38	cps
Selenium	77-2	10	3	0	4	114.60	cps
Selenium	78-2	440	463	450	451	2.60	cps
Silicon	28-1	1192841	1180027	1150682	1174517	1.84	cps
Silver	107-1	1033	1100	1087	1073	3.29	cps
Silver	109-1	957	927	1063	982	7.31	cps
Sodium	23-2	37495	37128	36620	37081	1.19	cps
Strontium	86-1	560	547	523	543	3.42	cps
Strontium	88-1	2290	2350	2404	2348	2.42	cps
Sulfur	34-1	160994	161530	158468	160331	1.02	cps
Terbium	159-1	15784453	15256481	15452907	15497947	1.72	cps
Terbium	159-2	10099322	10054370	10163802	10105831	0.54	cps
Thallium	203-1	1007	1023	907	979	6.45	cps
Thallium	205-1	2430	2427	2434	2430	0.14	cps
Tin	118-1	1397	1497	1373	1422	4.61	cps
Titanium	47-1	1077	1087	930	1031	8.51	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:27:47 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2967	2797	2787	2850	3.55	cps
Vanadium	51-2	313	263	333	303	11.89	cps
Yttrium	89-1	17286216	16928828	17133907	17116317	1.05	cps
Yttrium	89-2	5036780	5041312	4976365	5018152	0.72	cps
Zinc	66-2	1097	963	870	977	11.66	cps
Zirconium	90-1	1780	1937	1997	1905	5.87	cps
Zirconium	91-1	357	340	333	343	3.50	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:34:20 DataFile Name : 006CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6715	6728	6568	6670	1.33	cps
Antimony	121-1	23810	24050	23863	23908	0.53	cps
Arsenic	75-2	670	657	627	651	3.41	cps
Barium	135-1	30840	30570	31161	30857	0.96	cps
Barium	137-1	52720	54203	53691	53538	1.41	cps
Beryllium	9-1	1353	1300	1373	1342	2.82	cps
Bismuth	209-1	10019500	9901288	9944348	9955045	0.60	cps
Bismuth	209-2	7448198	7513798	7486118	7482705	0.44	cps
Bromine	81-1	16483	16389	15271	16048	4.20	cps
Bromine	81-2	147	140	210	166	23.34	cps
Cadmium	108-1	220	260	253	244	8.77	cps
Cadmium	106-1	10167	9543	9186	9632	5.15	cps
Cadmium	111-1	9993	9575	9350	9640	3.39	cps
Calcium	43-1	14931	15471	14894	15099	2.14	cps
Calcium	44-1	249690	253244	253912	252282	0.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10194	10877	10414	10495	3.33	cps
Cobalt	59-2	8416	8576	8316	8436	1.56	cps
Copper	63-2	15635	15602	15598	15612	0.13	cps
Dysprosium	156-1	10	10	23	14	53.28	cps
Dysprosium	156-2	3	3	17	8	99.04	cps
Erbium	164-1	77	97	103	92	15.05	cps
Erbium	164-2	67	47	37	50	30.55	cps
Gadolinium	160-1	53	73	83	70	21.82	cps
Gadolinium	160-2	610	633	643	629	2.72	cps
Holmium	165-1	15473589	15385576	15586614	15481926	0.65	cps
Holmium	165-2	10557814	10611457	10400525	10523265	1.04	cps
Indium	115-1	11855124	11639199	11610947	11701756	1.14	cps
Indium	115-2	4488913	4407865	4460971	4452583	0.92	cps
Iron	56-2	319502	318636	317791	318643	0.27	cps
Iron	57-2	9400	9310	9123	9277	1.52	cps
Iron	54-2	19052	19172	19209	19145	0.43	cps
Krypton	83-1	190	200	193	194	2.62	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:34:20 DataFile Name : 006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	14051	13614	13694	13786	1.69	cps
Lead	207-1	12002	11912	12172	12029	1.10	cps
Lead	208-1	55518	55014	55288	55273	0.46	cps
Lithium	6-1	1144566	1133961	1131518	1136681	0.61	cps
Magnesium	24-2	213206	213095	211581	212627	0.43	cps
Manganese	55-2	6758	6762	6885	6802	1.06	cps
Molybdenum	94-1	24711	25763	25906	25460	2.56	cps
Molybdenum	95-1	31678	32048	31985	31904	0.62	cps
Molybdenum	96-1	35911	36084	35423	35806	0.96	cps
Molybdenum	97-1	19974	20364	20030	20123	1.05	cps
Molybdenum	98-1	51698	51597	50480	51258	1.32	cps
Neodymium	150-1	10	7	10	9	21.63	cps
Neodymium	150-2	10	0	10	7	86.60	cps
Nickel	60-2	2354	2284	2444	2360	3.40	cps
Phosphorus	31-2	680	867	787	778	12.04	cps
Potassium	39-2	343622	340646	338625	340964	0.74	cps
Rhodium	103-1	10610795	10734382	10542545	10629240	0.91	cps
Rhodium	103-2	6489053	6432927	6448928	6456969	0.45	cps
Scandium	45-1	5683784	5630923	5612663	5642457	0.65	cps
Scandium	45-2	559732	554877	553665	556091	0.58	cps
Selenium	82-1	1372	1401	1359	1377	1.59	cps
Selenium	77-2	103	100	100	101	1.90	cps
Selenium	78-2	813	863	880	852	4.07	cps
Silicon	28-1	1178225	1212699	1224615	1205180	2.00	cps
Silver	107-1	15482	15632	15739	15617	0.83	cps
Silver	109-1	14628	14677	14421	14575	0.93	cps
Sodium	23-2	353984	354091	352741	353606	0.21	cps
Strontium	86-1	4127	4171	3984	4094	2.39	cps
Strontium	88-1	33134	33592	33371	33366	0.69	cps
Sulfur	34-1	165444	165394	165138	165325	0.10	cps
Terbium	159-1	15833142	15715654	15563354	15704050	0.86	cps
Terbium	159-2	10343949	10383118	10356905	10361324	0.19	cps
Thallium	203-1	12903	13280	13103	13095	1.44	cps
Thallium	205-1	31072	31363	30838	31091	0.85	cps
Tin	118-1	48719	49822	50311	49617	1.64	cps
Titanium	47-1	7539	7135	7395	7356	2.78	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:34:20 DataFile Name : 006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	40578	40969	42083	41210	1.89	cps
Vanadium	51-2	20461	20551	20861	20624	1.02	cps
Yttrium	89-1	17393011	17280381	17213689	17295694	0.52	cps
Yttrium	89-2	5082442	5084170	5032069	5066227	0.58	cps
Zinc	66-2	5841	5548	5598	5662	2.77	cps
Zirconium	90-1	20000	20391	19800	20064	1.50	cps
Zirconium	91-1	4314	4587	4544	4482	3.28	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:37:36 DataFile Name : 007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	218899	216643	218313	217952	0.54	cps
Antimony	121-1	534932	543783	541608	540108	0.85	cps
Arsenic	75-2	28474	28711	27973	28386	1.33	cps
Barium	135-1	700559	710233	702984	704592	0.71	cps
Barium	137-1	1227316	1242862	1220751	1230309	0.92	cps
Beryllium	9-1	57202	57469	57854	57508	0.57	cps
Bismuth	209-1	10146766	9954046	10018272	10039695	0.98	cps
Bismuth	209-2	7568991	7357916	7432090	7452999	1.44	cps
Bromine	81-1	16216	15955	15411	15861	2.59	cps
Bromine	81-2	117	170	137	141	19.09	cps
Cadmium	108-1	10557	10867	10894	10773	1.74	cps
Cadmium	106-1	23649	24775	23773	24066	2.56	cps
Cadmium	111-1	147376	149290	148240	148302	0.65	cps
Calcium	43-1	129941	129982	129114	129679	0.38	cps
Calcium	44-1	2059632	2054810	2008964	2041135	1.37	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	210602	210292	209528	210141	0.26	cps
Cobalt	59-2	327593	326726	327418	327246	0.14	cps
Copper	63-2	2447358	2439186	2440632	2442392	0.18	cps
Dysprosium	156-1	33	33	37	34	5.60	cps
Dysprosium	156-2	43	57	60	53	16.54	cps
Erbium	164-1	100	87	77	88	13.33	cps
Erbium	164-2	83	77	67	76	11.10	cps
Gadolinium	160-1	67	67	80	71	10.82	cps
Gadolinium	160-2	643	460	567	557	16.54	cps
Holmium	165-1	15662999	15420804	15417029	15500278	0.91	cps
Holmium	165-2	10663728	10383578	10314436	10453914	1.77	cps
Indium	115-1	11599016	11424273	11240289	11421193	1.57	cps
Indium	115-2	4413182	4335374	4328550	4359035	1.08	cps
Iron	56-2	9896717	9887026	9899170	9894304	0.06	cps
Iron	57-2	257174	257337	254921	256477	0.53	cps
Iron	54-2	558430	558701	563018	560050	0.46	cps
Krypton	83-1	120	177	173	157	20.30	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:37:36 DataFile Name : 007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2378332	2420280	2428784	2409132	1.12	cps
Lead	207-1	2109485	2149255	2181002	2146581	1.67	cps
Lead	208-1	9789758	9869367	9892133	9850420	0.55	cps
Lithium	6-1	1160297	1165324	1159833	1161818	0.26	cps
Magnesium	24-2	1770757	1762272	1813440	1782156	1.54	cps
Manganese	55-2	1672817	1652552	1656892	1660754	0.64	cps
Molybdenum	94-1	1825148	1864903	1840998	1843683	1.09	cps
Molybdenum	95-1	2655229	2684534	2627350	2655704	1.08	cps
Molybdenum	96-1	2946348	2956376	2924011	2942245	0.56	cps
Molybdenum	97-1	1649449	1658181	1645259	1650963	0.40	cps
Molybdenum	98-1	4295239	4284492	4267778	4282503	0.32	cps
Neodymium	150-1	47	83	50	60	33.79	cps
Neodymium	150-2	27	23	17	22	22.91	cps
Nickel	60-2	83269	82455	83246	82990	0.56	cps
Phosphorus	31-2	11408	11114	10907	11143	2.26	cps
Potassium	39-2	1292842	1292982	1302578	1296134	0.43	cps
Rhodium	103-1	10541930	10369797	10349076	10420268	1.02	cps
Rhodium	103-2	6351220	6274092	6151277	6258863	1.61	cps
Scandium	45-1	5611079	5554687	5410413	5525393	1.87	cps
Scandium	45-2	531878	527615	528994	529496	0.41	cps
Selenium	82-1	8601	8585	8750	8646	1.05	cps
Selenium	77-2	923	910	967	933	3.17	cps
Selenium	78-2	3737	3694	3397	3609	5.13	cps
Silicon	28-1	5766556	5786408	5710069	5754344	0.69	cps
Silver	107-1	694933	703054	698365	698784	0.58	cps
Silver	109-1	656092	664602	657877	659523	0.68	cps
Sodium	23-2	3146261	3137420	3113733	3132471	0.54	cps
Strontium	86-1	161114	163863	161387	162121	0.93	cps
Strontium	88-1	1467715	1444205	1430599	1447506	1.30	cps
Sulfur	34-1	195439	194967	191244	193883	1.19	cps
Terbium	159-1	15770351	15705496	15761864	15745904	0.22	cps
Terbium	159-2	10175444	10160516	10360754	10232238	1.09	cps
Thallium	203-1	579204	582672	586328	582735	0.61	cps
Thallium	205-1	1369403	1369512	1379819	1372911	0.44	cps
Tin	118-1	447886	452861	450138	450295	0.55	cps
Titanium	47-1	581392	581734	577509	580212	0.40	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:37:36 DataFile Name : 007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1985859	2019692	1985893	1997148	0.98	cps
Vanadium	51-2	182647	181048	181304	181667	0.47	cps
Yttrium	89-1	17172706	16954634	16804166	16977169	1.09	cps
Yttrium	89-2	4949124	4886508	4901636	4912423	0.67	cps
Zinc	66-2	407230	407168	405017	406472	0.31	cps
Zirconium	90-1	894868	904342	893797	897669	0.65	cps
Zirconium	91-1	198149	200489	199480	199373	0.59	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:40:38 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	539313	539422	535925	538220	0.37	cps
Antimony	121-1	1336197	1344641	1356373	1345737	0.75	cps
Arsenic	75-2	70968	69723	69558	70083	1.10	cps
Barium	135-1	1808894	1841562	1842588	1831015	1.05	cps
Barium	137-1	3203168	3198801	3233348	3211772	0.59	cps
Beryllium	9-1	141453	144064	143623	143047	0.98	cps
Bismuth	209-1	10207911	10329662	10209930	10249168	0.68	cps
Bismuth	209-2	7570448	7513777	7499583	7527936	0.50	cps
Bromine	81-1	15111	15338	15435	15295	1.09	cps
Bromine	81-2	160	137	153	150	8.01	cps
Cadmium	108-1	26361	26518	27249	26709	1.77	cps
Cadmium	106-1	45605	46267	46049	45974	0.73	cps
Cadmium	111-1	355528	361161	364789	360493	1.29	cps
Calcium	43-1	306103	311540	310840	309494	0.96	cps
Calcium	44-1	4894475	4860205	4896677	4883786	0.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	522160	516132	519667	519320	0.58	cps
Cobalt	59-2	816717	815597	808271	813528	0.56	cps
Copper	63-2	6097319	6020828	5976048	6031399	1.02	cps
Dysprosium	156-1	57	57	63	59	6.53	cps
Dysprosium	156-2	117	143	133	131	10.28	cps
Erbium	164-1	97	113	110	107	8.27	cps
Erbium	164-2	43	63	83	63	31.58	cps
Gadolinium	160-1	123	103	97	108	12.88	cps
Gadolinium	160-2	543	613	677	611	10.91	cps
Holmium	165-1	15754902	15699791	15564730	15673141	0.62	cps
Holmium	165-2	10477940	10479751	10553563	10503751	0.41	cps
Indium	115-1	11387569	11366577	11302658	11352268	0.39	cps
Indium	115-2	4333533	4279178	4280049	4297587	0.72	cps
Iron	56-2	24862825	24749122	24493320	24701756	0.77	cps
Iron	57-2	636484	633921	631476	633961	0.40	cps
Iron	54-2	1387571	1344328	1352256	1361385	1.69	cps
Krypton	83-1	147	150	170	156	8.11	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:40:38 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6115651	6218655	6259994	6198100	1.20	cps
Lead	207-1	5406802	5529121	5664073	5533332	2.33	cps
Lead	208-1	24989404	25336174	25545659	25290412	1.11	cps
Lithium	6-1	1187497	1168895	1167586	1174659	0.95	cps
Magnesium	24-2	4352159	4370585	4370689	4364478	0.24	cps
Manganese	55-2	4152897	4209078	4151473	4171149	0.79	cps
Molybdenum	94-1	4525747	4622957	4630025	4592910	1.27	cps
Molybdenum	95-1	6521138	6546772	6538299	6535403	0.20	cps
Molybdenum	96-1	7120313	7151365	7244076	7171918	0.90	cps
Molybdenum	97-1	4112896	4124976	4083552	4107141	0.52	cps
Molybdenum	98-1	10583364	10590875	10573274	10582504	0.08	cps
Neodymium	150-1	173	123	130	142	19.09	cps
Neodymium	150-2	37	40	50	42	16.43	cps
Nickel	60-2	204454	203788	204934	204392	0.28	cps
Phosphorus	31-2	27031	26680	26620	26777	0.83	cps
Potassium	39-2	3122868	3167058	3092068	3127331	1.21	cps
Rhodium	103-1	10325653	10181627	10099323	10202201	1.12	cps
Rhodium	103-2	6185016	6162014	6045586	6130872	1.22	cps
Scandium	45-1	5311110	5296619	5237354	5281694	0.74	cps
Scandium	45-2	520521	520908	518896	520108	0.21	cps
Selenium	82-1	20393	20574	20460	20476	0.45	cps
Selenium	77-2	2340	2267	2320	2309	1.64	cps
Selenium	78-2	8089	8676	8246	8337	3.65	cps
Silicon	28-1	11589481	11767783	11646875	11668046	0.78	cps
Silver	107-1	1723660	1765712	1759631	1749668	1.30	cps
Silver	109-1	1649969	1663822	1675330	1663040	0.76	cps
Sodium	23-2	7722483	7721006	7586097	7676529	1.02	cps
Strontium	86-1	396688	401116	404246	400684	0.95	cps
Strontium	88-1	3560242	3644587	3628684	3611171	1.24	cps
Sulfur	34-1	232695	234546	230640	232627	0.84	cps
Terbium	159-1	15853552	15677969	15860012	15797178	0.65	cps
Terbium	159-2	10359252	10242140	10340907	10314100	0.61	cps
Thallium	203-1	1469517	1491076	1512046	1490880	1.43	cps
Thallium	205-1	3699333	3719890	3726616	3715280	0.38	cps
Tin	118-1	1103222	1129977	1121569	1118256	1.22	cps
Titanium	47-1	1396724	1456081	1420530	1424445	2.10	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:40:38 DataFile Name : 008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	5121021	5201427	5283663	5202037	1.56	cps
Vanadium	51-2	456109	451211	450209	452510	0.70	cps
Yttrium	89-1	16811144	16596708	16584921	16664257	0.76	cps
Yttrium	89-2	4859186	4839086	4809171	4835814	0.52	cps
Zinc	66-2	1008318	998206	994863	1000462	0.70	cps
Zirconium	90-1	2240426	2268084	2285982	2264831	1.01	cps
Zirconium	91-1	487184	496224	495718	493042	1.03	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:43:29 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1011712	999910	995097	1002240	0.85	cps
Antimony	121-1	2665857	2705659	2737282	2702933	1.32	cps
Arsenic	75-2	133860	129922	129485	131089	1.84	cps
Barium	135-1	3528590	3577656	3644465	3583570	1.62	cps
Barium	137-1	6176778	6281783	6275057	6244539	0.94	cps
Beryllium	9-1	274575	275929	273963	274822	0.37	cps
Bismuth	209-1	9879227	10057670	10123768	10020222	1.26	cps
Bismuth	209-2	7345117	7310985	7291713	7315938	0.37	cps
Bromine	81-1	14244	14400	13790	14145	2.24	cps
Bromine	81-2	117	133	103	118	12.77	cps
Cadmium	108-1	49618	50648	49996	50087	1.04	cps
Cadmium	106-1	79251	80066	79700	79672	0.51	cps
Cadmium	111-1	679006	689691	687948	685549	0.84	cps
Calcium	43-1	588975	594490	593535	592333	0.50	cps
Calcium	44-1	9368527	9439593	9406458	9404859	0.38	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	977566	970642	962732	970313	0.76	cps
Cobalt	59-2	1571254	1543608	1537433	1550765	1.16	cps
Copper	63-2	11375346	11185249	11187863	11249486	0.97	cps
Dysprosium	156-1	130	113	93	112	16.36	cps
Dysprosium	156-2	230	250	197	226	11.95	cps
Erbium	164-1	170	153	173	166	6.47	cps
Erbium	164-2	90	80	80	83	6.93	cps
Gadolinium	160-1	133	130	143	136	5.12	cps
Gadolinium	160-2	643	540	580	588	8.86	cps
Holmium	165-1	15446901	15509885	15324612	15427133	0.61	cps
Holmium	165-2	10320708	10170510	10247983	10246400	0.73	cps
Indium	115-1	11084202	10963683	11035562	11027816	0.55	cps
Indium	115-2	4201933	4078587	4134265	4138261	1.49	cps
Iron	56-2	46278151	45774014	45489693	45847286	0.87	cps
Iron	57-2	1196685	1182907	1172197	1183930	1.04	cps
Iron	54-2	2550764	2546945	2552270	2549993	0.11	cps
Krypton	83-1	203	127	180	170	23.12	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:43:29 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12140039	12215762	12303704	12219835	0.67	cps
Lead	207-1	10765627	10682619	10859484	10769243	0.82	cps
Lead	208-1	48962416	49553016	50078288	49531240	1.13	cps
Lithium	6-1	1178621	1156984	1170537	1168714	0.94	cps
Magnesium	24-2	8329999	8316686	8121361	8256015	1.41	cps
Manganese	55-2	7885501	7876818	7708614	7823644	1.27	cps
Molybdenum	94-1	8892074	8966398	8850073	8902848	0.66	cps
Molybdenum	95-1	12497768	12714001	12757107	12656292	1.10	cps
Molybdenum	96-1	13758771	13975211	13934723	13889568	0.83	cps
Molybdenum	97-1	7856917	7910436	7878827	7882060	0.34	cps
Molybdenum	98-1	20254478	20640183	20520133	20471598	0.96	cps
Neodymium	150-1	243	300	357	300	18.89	cps
Neodymium	150-2	110	90	63	88	26.67	cps
Nickel	60-2	383909	379582	377350	380281	0.88	cps
Phosphorus	31-2	50419	49931	49145	49832	1.29	cps
Potassium	39-2	5776878	5769927	5653731	5733512	1.21	cps
Rhodium	103-1	9846763	9745546	9784110	9792139	0.52	cps
Rhodium	103-2	5940860	5881330	5805886	5876025	1.15	cps
Scandium	45-1	5175216	5047520	5057751	5093496	1.39	cps
Scandium	45-2	500661	496015	490477	495718	1.03	cps
Selenium	82-1	38413	38517	38210	38380	0.41	cps
Selenium	77-2	4484	4221	4304	4336	3.10	cps
Selenium	78-2	15592	14924	14594	15037	3.38	cps
Silicon	28-1	21177601	21472626	21343520	21331249	0.69	cps
Silver	107-1	3355377	3349923	3397312	3367537	0.77	cps
Silver	109-1	3186414	3195118	3255474	3212335	1.17	cps
Sodium	23-2	14651780	14353722	14437702	14481068	1.06	cps
Strontium	86-1	767750	773643	772534	771309	0.41	cps
Strontium	88-1	6958052	6985278	6891455	6944928	0.70	cps
Sulfur	34-1	301349	301519	296829	299899	0.89	cps
Terbium	159-1	15663623	15621356	15713100	15666026	0.29	cps
Terbium	159-2	10165379	9978304	10022787	10055490	0.97	cps
Thallium	203-1	3029975	3119098	3073121	3074065	1.45	cps
Thallium	205-1	7215498	7307784	7307008	7276763	0.73	cps
Tin	118-1	2207304	2252066	2244136	2234502	1.07	cps
Titanium	47-1	2741366	2730443	2707689	2726499	0.63	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:43:29 DataFile Name : 009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10199895	10154522	10208016	10187478	0.28	cps
Vanadium	51-2	859989	851035	839354	850126	1.22	cps
Yttrium	89-1	16167264	16337946	16173067	16226092	0.60	cps
Yttrium	89-2	4670719	4617721	4612015	4633485	0.70	cps
Zinc	66-2	1942783	1901946	1900546	1915091	1.25	cps
Zirconium	90-1	4355482	4396688	4365703	4372624	0.49	cps
Zirconium	91-1	947549	950583	961816	953316	0.79	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:46:18 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1991415	1968509	1928854	1962926	1.61	cps
Antimony	121-1	5076526	5203109	5172123	5150586	1.28	cps
Arsenic	75-2	250056	251591	248066	249904	0.71	cps
Barium	135-1	6728626	6915105	6893658	6845796	1.49	cps
Barium	137-1	11730571	11924531	12084294	11913132	1.49	cps
Beryllium	9-1	513078	522862	517343	517761	0.95	cps
Bismuth	209-1	9927137	9736166	9773232	9812178	1.03	cps
Bismuth	209-2	7226051	7215562	7189734	7210449	0.26	cps
Bromine	81-1	12929	12502	12619	12683	1.74	cps
Bromine	81-2	77	133	113	108	26.67	cps
Cadmium	108-1	92687	94522	94689	93966	1.18	cps
Cadmium	106-1	139384	139683	139222	139430	0.17	cps
Cadmium	111-1	1264915	1287969	1283004	1278629	0.95	cps
Calcium	43-1	1098469	1116546	1100626	1105213	0.89	cps
Calcium	44-1	17612351	17663668	17568302	17614774	0.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1852964	1875577	1860986	1863176	0.62	cps
Cobalt	59-2	2908417	2893228	2924083	2908576	0.53	cps
Copper	63-2	21149251	21035176	20856771	21013733	0.70	cps
Dysprosium	156-1	233	253	180	222	17.06	cps
Dysprosium	156-2	413	380	370	388	5.85	cps
Erbium	164-1	237	173	247	219	18.17	cps
Erbium	164-2	137	127	177	147	18.04	cps
Gadolinium	160-1	177	223	173	191	14.63	cps
Gadolinium	160-2	580	633	633	616	5.00	cps
Holmium	165-1	15405191	15322534	15036894	15254873	1.27	cps
Holmium	165-2	10206406	10145786	10093420	10148537	0.56	cps
Indium	115-1	10668321	10552660	10251314	10490765	2.05	cps
Indium	115-2	3979432	3916474	3939257	3945055	0.81	cps
Iron	56-2	87774879	87523699	87641705	87646761	0.14	cps
Iron	57-2	2198252	2190232	2240527	2209670	1.22	cps
Iron	54-2	4773155	4782054	4809103	4788104	0.39	cps
Krypton	83-1	147	190	123	153	22.06	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:46:18 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	23753968	24024063	24184010	23987347	0.91	cps
Lead	207-1	20916934	21136049	21299062	21117349	0.91	cps
Lead	208-1	95586376	97105040	97836374	96842597	1.19	cps
Lithium	6-1	1147861	1112365	1117159	1125795	1.71	cps
Magnesium	24-2	15509336	15687366	15547893	15581532	0.60	cps
Manganese	55-2	14958211	14927690	14977015	14954305	0.17	cps
Molybdenum	94-1	16693738	16757566	16806504	16752603	0.34	cps
Molybdenum	95-1	23649442	24057783	24017020	23908082	0.94	cps
Molybdenum	96-1	26261399	26698910	26390940	26450416	0.85	cps
Molybdenum	97-1	14944143	14916325	15082874	14981114	0.60	cps
Molybdenum	98-1	38501163	39322190	38825986	38883113	1.06	cps
Neodymium	150-1	427	490	593	503	16.71	cps
Neodymium	150-2	117	153	157	142	15.61	cps
Nickel	60-2	710258	704381	707181	707273	0.42	cps
Phosphorus	31-2	93480	91270	91632	92127	1.29	cps
Potassium	39-2	10847714	10793429	10768446	10803197	0.38	cps
Rhodium	103-1	9356433	9218406	9119856	9231565	1.29	cps
Rhodium	103-2	5614435	5562782	5575450	5584222	0.48	cps
Scandium	45-1	4919475	4806185	4728996	4818219	1.99	cps
Scandium	45-2	469620	471417	471438	470825	0.22	cps
Selenium	82-1	70859	71728	70374	70987	0.97	cps
Selenium	77-2	8002	8299	8112	8138	1.84	cps
Selenium	78-2	27382	27943	27549	27625	1.04	cps
Silicon	28-1	40699487	41011203	40386426	40699039	0.77	cps
Silver	107-1	6318283	6310691	6320917	6316630	0.08	cps
Silver	109-1	5928975	5974418	6064101	5989165	1.15	cps
Sodium	23-2	27578557	27851487	27300935	27576993	1.00	cps
Strontium	86-1	1482303	1505611	1493605	1493840	0.78	cps
Strontium	88-1	13183221	13366571	13353705	13301166	0.77	cps
Sulfur	34-1	417880	418805	409692	415459	1.21	cps
Terbium	159-1	15445528	15155179	15425681	15342129	1.06	cps
Terbium	159-2	9936074	9943079	9939248	9939467	0.04	cps
Thallium	203-1	5946132	6080316	6013557	6013335	1.12	cps
Thallium	205-1	14080796	14414567	14566868	14354077	1.73	cps
Tin	118-1	4166822	4273114	4256077	4232004	1.35	cps
Titanium	47-1	5030915	5123319	5131975	5095403	1.10	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:46:18 DataFile Name : 010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19961082	20334002	20549028	20281371	1.47	cps
Vanadium	51-2	1638855	1640673	1621673	1633733	0.64	cps
Yttrium	89-1	15764555	15562215	15377448	15568073	1.24	cps
Yttrium	89-2	4504014	4433916	4426661	4454864	0.96	cps
Zinc	66-2	3627291	3574905	3599421	3600539	0.73	cps
Zirconium	90-1	8157415	8323508	8365357	8282093	1.33	cps
Zirconium	91-1	1815402	1854851	1855893	1842049	1.25	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:49:02 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3879223	3872945	3856767	3869645	0.30	cps
Antimony	121-1	9949397	9995902	10103158	10016152	0.79	cps
Arsenic	75-2	493713	488009	489551	490425	0.60	cps
Barium	135-1	13145721	13312873	13521923	13326839	1.41	cps
Barium	137-1	23342153	23264510	23684140	23430268	0.95	cps
Beryllium	9-1	1026631	1019788	1050462	1032294	1.56	cps
Bismuth	209-1	9671794	9551355	9629005	9617385	0.63	cps
Bismuth	209-2	7195520	7125633	7060138	7127097	0.95	cps
Bromine	81-1	12292	12439	12419	12383	0.64	cps
Bromine	81-2	113	103	90	102	11.45	cps
Cadmium	108-1	177920	181524	181261	180235	1.11	cps
Cadmium	106-1	251816	254454	258430	254900	1.31	cps
Cadmium	111-1	2430516	2482258	2503208	2471994	1.51	cps
Calcium	43-1	2048677	2121431	2110395	2093501	1.87	cps
Calcium	44-1	33599448	33896368	34490316	33995377	1.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3729798	3730570	3704581	3721650	0.40	cps
Cobalt	59-2	5759715	5736743	5751224	5749227	0.20	cps
Copper	63-2	41148415	40985461	40785908	40973261	0.44	cps
Dysprosium	156-1	380	410	350	380	7.89	cps
Dysprosium	156-2	827	790	843	820	3.33	cps
Erbium	164-1	353	360	360	358	1.08	cps
Erbium	164-2	267	230	263	253	8.00	cps
Gadolinium	160-1	293	273	260	276	6.09	cps
Gadolinium	160-2	683	623	717	674	7.01	cps
Holmium	165-1	15139263	15183260	15054756	15125760	0.43	cps
Holmium	165-2	10283307	10295107	10283230	10287214	0.07	cps
Indium	115-1	10208519	10210167	10186782	10201823	0.13	cps
Indium	115-2	3982881	3918655	3966011	3955849	0.84	cps
Iron	56-2	173051644	172650864	172295211	172665906	0.22	cps
Iron	57-2	4423522	4357417	4402867	4394602	0.77	cps
Iron	54-2	9542232	9564017	9503987	9536746	0.32	cps
Krypton	83-1	153	170	143	156	8.66	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:49:02 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	46137283	47134796	46985648	46752575	1.15	cps
Lead	207-1	40714183	41647957	41534853	41298997	1.23	cps
Lead	208-1	188012481	191178641	190970999	190054040	0.93	cps
Lithium	6-1	1106131	1121864	1130388	1119461	1.10	cps
Magnesium	24-2	30927282	31226714	31024525	31059507	0.49	cps
Manganese	55-2	29937224	29751730	29471395	29720117	0.79	cps
Molybdenum	94-1	32097797	32847872	32939593	32628421	1.42	cps
Molybdenum	95-1	45831011	46989274	47151198	46657161	1.54	cps
Molybdenum	96-1	50596961	51177034	51568519	51114171	0.96	cps
Molybdenum	97-1	28969773	29420855	29272046	29220892	0.79	cps
Molybdenum	98-1	74740982	76260017	75792769	75597923	1.03	cps
Neodymium	150-1	950	1063	967	993	6.16	cps
Neodymium	150-2	280	320	273	291	8.67	cps
Nickel	60-2	1377934	1375305	1377797	1377012	0.11	cps
Phosphorus	31-2	181860	182038	181961	181953	0.05	cps
Potassium	39-2	21539038	21344845	21524583	21469489	0.50	cps
Rhodium	103-1	8942107	8887402	8903386	8910965	0.32	cps
Rhodium	103-2	5719424	5553150	5559098	5610558	1.68	cps
Scandium	45-1	4739983	4678924	4684291	4701066	0.72	cps
Scandium	45-2	481589	475872	477472	478311	0.62	cps
Selenium	82-1	132562	133987	134493	133680	0.75	cps
Selenium	77-2	16075	16262	16262	16200	0.67	cps
Selenium	78-2	53757	54911	54396	54355	1.06	cps
Silicon	28-1	73433787	73796631	74150889	73793769	0.49	cps
Silver	107-1	11920975	12021520	12055809	11999435	0.58	cps
Silver	109-1	11299688	11361023	11393899	11351537	0.42	cps
Sodium	23-2	54778493	54965599	54648633	54797575	0.29	cps
Strontium	86-1	2905480	2944465	2927690	2925879	0.67	cps
Strontium	88-1	25565570	25897280	25875504	25779451	0.72	cps
Sulfur	34-1	658304	667903	667303	664503	0.81	cps
Terbium	159-1	15233911	15346066	15024661	15201546	1.07	cps
Terbium	159-2	10055309	9966249	10091943	10037834	0.64	cps
Thallium	203-1	11729409	11745984	11681744	11719046	0.28	cps
Thallium	205-1	27803681	28094850	28217730	28038754	0.76	cps
Tin	118-1	8176700	8300978	8243093	8240257	0.75	cps
Titanium	47-1	9626107	9885878	9886544	9799510	1.53	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:49:02 DataFile Name : 011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	39729487	40648409	40502109	40293335	1.23	cps
Vanadium	51-2	3264773	3247220	3284436	3265477	0.57	cps
Yttrium	89-1	15164886	15120170	15072780	15119279	0.30	cps
Yttrium	89-2	4549057	4494364	4501928	4515116	0.66	cps
Zinc	66-2	6971474	6906460	6875080	6917671	0.71	cps
Zirconium	90-1	15859312	16206124	16139092	16068176	1.14	cps
Zirconium	91-1	3493498	3597686	3600386	3563857	1.71	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:51:48 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	20076813	20388474	20153713	20206333	0.80	cps
Antimony	121-1	10487	10010	9370	9956	5.63	cps
Arsenic	75-2	350	350	330	343	3.36	cps
Barium	135-1	8930	8506	7615	8350	8.03	cps
Barium	137-1	15469	14487	13960	14639	5.23	cps
Beryllium	9-1	583	500	480	521	10.52	cps
Bismuth	209-1	8786368	8818440	8613796	8739535	1.26	cps
Bismuth	209-2	6491263	6551805	6524104	6522391	0.46	cps
Bromine	81-1	13359	13046	13767	13391	2.70	cps
Bromine	81-2	167	167	163	166	1.16	cps
Cadmium	108-1	123	130	140	131	6.40	cps
Cadmium	106-1	8172	8016	8059	8082	1.00	cps
Cadmium	111-1	6711	6417	6367	6498	2.86	cps
Calcium	43-1	10499511	10776493	10679654	10651886	1.32	cps
Calcium	44-1	171921317	173019517	174025797	172988877	0.61	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8122	8526	8959	8536	4.90	cps
Cobalt	59-2	16716	16763	16426	16635	1.10	cps
Copper	63-2	16396	15695	14527	15539	6.07	cps
Dysprosium	156-1	423	423	403	417	2.77	cps
Dysprosium	156-2	347	330	327	334	3.21	cps
Erbium	164-1	463	590	500	518	12.59	cps
Erbium	164-2	330	340	323	331	2.53	cps
Gadolinium	160-1	437	500	367	434	15.35	cps
Gadolinium	160-2	780	900	887	856	7.69	cps
Holmium	165-1	15006584	14754933	14812103	14857873	0.89	cps
Holmium	165-2	10070830	10159016	10119613	10116486	0.44	cps
Indium	115-1	10097686	10071860	10061234	10076926	0.19	cps
Indium	115-2	3929087	3897735	3910307	3912376	0.40	cps
Iron	56-2	849677907	857377401	858875134	855310147	0.58	cps
Iron	57-2	21563974	21879808	21576104	21673295	0.83	cps
Iron	54-2	46088848	46662894	46682413	46478052	0.73	cps
Krypton	83-1	243	130	180	184	30.80	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:51:48 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	25187	22926	21818	23310	7.37	cps
Lead	207-1	21884	19474	18429	19929	8.89	cps
Lead	208-1	101055	90980	85288	92441	8.64	cps
Lithium	6-1	1083235	1104668	1083217	1090373	1.14	cps
Magnesium	24-2	160308214	160660724	161338994	160769311	0.33	cps
Manganese	55-2	18845	18628	18118	18530	2.02	cps
Molybdenum	94-1	17140	15645	14587	15791	8.12	cps
Molybdenum	95-1	20902	18041	16259	18401	12.73	cps
Molybdenum	96-1	31798	29052	27152	29334	7.96	cps
Molybdenum	97-1	13003	11168	10551	11574	11.02	cps
Molybdenum	98-1	33001	28351	25739	29030	12.67	cps
Neodymium	150-1	243	260	207	237	11.53	cps
Neodymium	150-2	140	130	120	130	7.69	cps
Nickel	60-2	7832	7575	7332	7580	3.30	cps
Phosphorus	31-2	563	433	573	523	14.92	cps
Potassium	39-2	111670395	112632782	111587265	111963481	0.52	cps
Rhodium	103-1	8511834	8478411	8447391	8479212	0.38	cps
Rhodium	103-2	5289344	5348751	5249675	5295923	0.94	cps
Scandium	45-1	4875961	4816962	4880684	4857869	0.73	cps
Scandium	45-2	495899	499495	499704	498366	0.43	cps
Selenium	82-1	575	663	568	602	8.74	cps
Selenium	77-2	0	7	10	6	91.64	cps
Selenium	78-2	347	377	343	356	5.16	cps
Silicon	28-1	664674	651400	644689	653588	1.56	cps
Silver	107-1	4944	4214	3614	4257	15.65	cps
Silver	109-1	4671	4081	3520	4091	14.06	cps
Sodium	23-2	274029963	274960476	276425476	275138638	0.44	cps
Strontium	86-1	9536	9240	9436	9404	1.61	cps
Strontium	88-1	81796	81957	80834	81529	0.74	cps
Sulfur	34-1	115257	116698	118229	116728	1.27	cps
Terbium	159-1	15042855	15181524	14795581	15006653	1.30	cps
Terbium	159-2	9906764	9980370	9777203	9888112	1.04	cps
Thallium	203-1	4364	3517	3194	3692	16.37	cps
Thallium	205-1	9894	8716	7572	8727	13.30	cps
Tin	118-1	4931	4351	4111	4464	9.45	cps
Titanium	47-1	4214	3894	3204	3771	13.69	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 12:51:48 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13864	11535	10054	11818	16.25	cps
Vanadium	51-2	1273	1240	1027	1180	11.34	cps
Yttrium	89-1	15246690	15317359	15480705	15348251	0.78	cps
Yttrium	89-2	4636436	4567527	4546937	4583633	1.02	cps
Zinc	66-2	11391	11238	11141	11257	1.12	cps
Zirconium	90-1	14497	13563	13233	13764	4.76	cps
Zirconium	91-1	3187	3054	2707	2983	8.31	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICV002 Instrumnet Name : P7
Client Sample ID : ICV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:46:17 DataFile Name : 014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	110491	110299	110091	110294	0.18	cps
Antimony	121-1	2170871	2206248	2228676	2201932	1.32	cps
Arsenic	75-2	121563	121741	119080	120794	1.23	cps
Barium	135-1	278145	282809	282573	281175	0.93	cps
Barium	137-1	488669	493371	493674	491905	0.57	cps
Beryllium	9-1	117393	120419	119421	119077	1.30	cps
Bismuth	209-1	10005202	10071634	10122936	10066591	0.59	cps
Bismuth	209-2	7407782	7630532	7723208	7587174	2.14	cps
Bromine	81-1	14898	15205	15205	15102	1.17	cps
Bromine	81-2	157	120	123	133	15.21	cps
Cadmium	108-1	18612	18642	18715	18657	0.29	cps
Cadmium	106-1	33960	34320	33980	34087	0.59	cps
Cadmium	111-1	285735	291139	291774	289550	1.15	cps
Calcium	43-1	51196	52835	52665	52232	1.72	cps
Calcium	44-1	850031	858939	859025	855998	0.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	450953	453512	450607	451691	0.35	cps
Cobalt	59-2	700342	698847	696246	698478	0.30	cps
Copper	63-2	486846	488420	481488	485585	0.75	cps
Dysprosium	156-1	10	17	20	16	32.73	cps
Dysprosium	156-2	40	27	10	26	58.81	cps
Erbium	164-1	83	73	60	72	16.21	cps
Erbium	164-2	47	47	67	53	21.65	cps
Gadolinium	160-1	53	87	57	66	28.01	cps
Gadolinium	160-2	597	677	600	624	7.25	cps
Holmium	165-1	15782124	15457481	15369677	15536428	1.40	cps
Holmium	165-2	10427384	10711385	10683705	10607492	1.48	cps
Indium	115-1	11880507	11774520	11786350	11813792	0.49	cps
Indium	115-2	4468617	4486255	4564430	4506434	1.13	cps
Iron	56-2	8369956	8258402	8103037	8243798	1.63	cps
Iron	57-2	213623	211730	212906	212753	0.45	cps
Iron	54-2	475835	474754	473772	474787	0.22	cps
Krypton	83-1	183	167	140	163	13.38	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICV002 Instrumnet Name : P7
Client Sample ID : ICV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:46:17 DataFile Name : 014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1957473	1942778	1983661	1961304	1.06	cps
Lead	207-1	1558259	1580290	1582893	1573814	0.86	cps
Lead	208-1	7621612	7705610	7734494	7687238	0.76	cps
Lithium	6-1	1189067	1183345	1164525	1178979	1.09	cps
Magnesium	24-2	445505	441089	439985	442193	0.66	cps
Manganese	55-2	355089	352971	350920	352993	0.59	cps
Molybdenum	94-1	3157	3257	3357	3257	3.07	cps
Molybdenum	95-1	4004	4181	4341	4175	4.03	cps
Molybdenum	96-1	4667	4551	4874	4697	3.49	cps
Molybdenum	97-1	2487	2507	2520	2505	0.67	cps
Molybdenum	98-1	6812	7022	6982	6938	1.61	cps
Neodymium	150-1	10	37	20	22	60.63	cps
Neodymium	150-2	17	10	0	9	94.38	cps
Nickel	60-2	177692	177949	177469	177703	0.13	cps
Phosphorus	31-2	350	440	423	404	11.84	cps
Potassium	39-2	1112265	1103460	1098693	1104806	0.62	cps
Rhodium	103-1	10922657	10708187	10701169	10777338	1.17	cps
Rhodium	103-2	6489983	6646151	6546197	6560777	1.21	cps
Scandium	45-1	5902206	5842310	5775310	5839942	1.09	cps
Scandium	45-2	557202	574982	574522	568902	1.78	cps
Selenium	82-1	33468	34315	34429	34071	1.54	cps
Selenium	77-2	4021	4027	3954	4001	1.01	cps
Selenium	78-2	13830	14284	14067	14060	1.61	cps
Silicon	28-1	1180657	849089	1137740	1055829	17.08	cps
Silver	107-1	653317	661980	665616	660304	0.96	cps
Silver	109-1	615277	630524	638837	628213	1.90	cps
Sodium	23-2	1274176	1279952	1286008	1280045	0.46	cps
Strontium	86-1	1403	1333	1450	1396	4.21	cps
Strontium	88-1	9693	9870	9960	9841	1.38	cps
Sulfur	34-1	170775	170840	170924	170847	0.04	cps
Terbium	159-1	15824316	15662778	15692709	15726601	0.55	cps
Terbium	159-2	10166187	10505506	10485227	10385640	1.83	cps
Thallium	203-1	2414956	2434732	2434897	2428195	0.47	cps
Thallium	205-1	5803047	5789992	5808893	5800644	0.17	cps
Tin	118-1	1703	2639	1760	2034	25.77	cps
Titanium	47-1	1003	1093	1087	1061	4.73	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICV002 Instrumnet Name : P7
Client Sample ID : ICV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:46:17 DataFile Name : 014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2774	2944	2797	2838	3.25	cps
Vanadium	51-2	385167	384843	381429	383813	0.54	cps
Yttrium	89-1	17784862	17603193	17495583	17627879	0.83	cps
Yttrium	89-2	5073019	5147682	5183221	5134641	1.10	cps
Zinc	66-2	168175	167050	165401	166875	0.84	cps
Zirconium	90-1	2277	2227	1997	2167	6.89	cps
Zirconium	91-1	653	753	643	683	8.90	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICB002 Instrumnet Name : P7
Client Sample ID : ICB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:53:25 DataFile Name : 016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	73	83	70	76	9.18	cps
Antimony	121-1	250	260	230	247	6.19	cps
Arsenic	75-2	17	0	7	8	107.84	cps
Barium	135-1	63	60	77	67	13.23	cps
Barium	137-1	127	123	123	124	1.54	cps
Beryllium	9-1	80	33	60	58	40.53	cps
Bismuth	209-1	10247974	9979604	10050073	10092550	1.38	cps
Bismuth	209-2	7575797	7545786	7712407	7611330	1.17	cps
Bromine	81-1	16516	16102	16656	16425	1.75	cps
Bromine	81-2	147	127	127	133	8.66	cps
Cadmium	108-1	23	27	30	27	12.51	cps
Cadmium	106-1	9073	9200	9246	9173	0.98	cps
Cadmium	111-1	6361	6428	6471	6420	0.86	cps
Calcium	43-1	270	300	340	303	11.58	cps
Calcium	44-1	11112	10715	10501	10776	2.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	827	873	833	844	2.99	cps
Cobalt	59-2	83	97	90	90	7.41	cps
Copper	63-2	1630	1573	1710	1638	4.19	cps
Dysprosium	156-1	0	0	3	1	173.21	cps
Dysprosium	156-2	7	3	7	6	34.70	cps
Erbium	164-1	87	93	60	80	22.05	cps
Erbium	164-2	43	47	57	49	14.20	cps
Gadolinium	160-1	70	87	67	74	14.39	cps
Gadolinium	160-2	563	603	643	603	6.63	cps
Holmium	165-1	15563871	15389712	15488821	15480801	0.56	cps
Holmium	165-2	10594586	10615003	10564848	10591479	0.24	cps
Indium	115-1	11684910	11643910	11599951	11642924	0.36	cps
Indium	115-2	4496683	4524261	4475777	4498907	0.54	cps
Iron	56-2	16276	15865	15765	15969	1.69	cps
Iron	57-2	1307	1247	1310	1288	2.77	cps
Iron	54-2	2094	2174	2110	2126	1.99	cps
Krypton	83-1	150	150	180	160	10.83	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICB002 Instrumnet Name : P7
Client Sample ID : ICB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:53:25 DataFile Name : 016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	660	647	620	642	3.17	cps
Lead	207-1	570	520	547	546	4.59	cps
Lead	208-1	2633	2480	2500	2538	3.28	cps
Lithium	6-1	1205050	1196478	1191799	1197776	0.56	cps
Magnesium	24-2	453	550	537	513	10.21	cps
Manganese	55-2	220	197	203	207	5.81	cps
Molybdenum	94-1	247	260	263	257	3.44	cps
Molybdenum	95-1	47	67	97	70	35.95	cps
Molybdenum	96-1	137	120	103	120	13.89	cps
Molybdenum	97-1	77	67	50	64	20.91	cps
Molybdenum	98-1	140	153	107	133	18.03	cps
Neodymium	150-1	0	7	10	6	91.64	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	333	417	343	364	12.49	cps
Phosphorus	31-2	490	390	400	427	12.91	cps
Potassium	39-2	55300	55544	55307	55384	0.25	cps
Rhodium	103-1	10819264	10852793	10688940	10786999	0.80	cps
Rhodium	103-2	6508230	6530424	6480333	6506329	0.39	cps
Scandium	45-1	5772871	5755760	5754513	5761048	0.18	cps
Scandium	45-2	569991	567465	573588	570348	0.54	cps
Selenium	82-1	506	509	540	518	3.62	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	383	440	350	391	11.63	cps
Silicon	28-1	825345	821622	1152101	933022	20.34	cps
Silver	107-1	180	170	163	171	4.90	cps
Silver	109-1	133	127	97	119	16.43	cps
Sodium	23-2	14730	14347	14310	14462	1.61	cps
Strontium	86-1	293	270	303	289	5.92	cps
Strontium	88-1	157	117	163	146	17.34	cps
Sulfur	34-1	173334	174113	175876	174441	0.75	cps
Terbium	159-1	15863485	15656694	15461677	15660619	1.28	cps
Terbium	159-2	10355215	10358182	10262156	10325184	0.53	cps
Thallium	203-1	277	190	217	228	19.49	cps
Thallium	205-1	490	473	553	506	8.35	cps
Tin	118-1	937	830	860	876	6.28	cps
Titanium	47-1	73	100	70	81	20.27	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICB002 Instrumnet Name : P7
Client Sample ID : ICB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:53:25 DataFile Name : 016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23	10	17	17	39.99	cps
Vanadium	51-2	17	17	13	16	12.40	cps
Yttrium	89-1	17394657	17368738	17252455	17338617	0.44	cps
Yttrium	89-2	5180824	5175396	5146949	5167723	0.35	cps
Zinc	66-2	270	373	323	322	16.04	cps
Zirconium	90-1	647	613	733	664	9.32	cps
Zirconium	91-1	113	147	97	119	21.41	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSA002 Instrumnet Name : P7
Client Sample ID : ICSA002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:56:41 DataFile Name : 017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18894866	18526962	18761450	18727759	0.99	cps
Antimony	121-1	12395	13093	12742	12744	2.74	cps
Arsenic	75-2	187	217	223	209	9.35	cps
Barium	135-1	4764	4808	4737	4770	0.74	cps
Barium	137-1	8579	8162	8166	8302	2.89	cps
Beryllium	9-1	357	440	467	421	13.63	cps
Bismuth	209-1	9502280	9616767	9556766	9558605	0.60	cps
Bismuth	209-2	6888606	7158891	7242097	7096531	2.60	cps
Bromine	81-1	16005	15281	15919	15735	2.51	cps
Bromine	81-2	537	627	660	608	10.50	cps
Cadmium	108-1	1753	1757	1673	1728	2.73	cps
Cadmium	106-1	8386	8052	8136	8191	2.12	cps
Cadmium	111-1	7100	6477	6724	6767	4.63	cps
Calcium	43-1	2204870	2204154	2173950	2194325	0.80	cps
Calcium	44-1	36339139	35376509	35425336	35713661	1.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	79072	78804	79545	79140	0.47	cps
Cobalt	59-2	7929	8012	8386	8109	3.00	cps
Copper	63-2	35385	35352	35863	35533	0.80	cps
Dysprosium	156-1	53	47	43	48	10.66	cps
Dysprosium	156-2	20	40	80	47	65.47	cps
Erbium	164-1	133	147	113	131	12.80	cps
Erbium	164-2	83	73	53	70	21.82	cps
Gadolinium	160-1	87	140	107	111	24.25	cps
Gadolinium	160-2	637	570	643	617	6.58	cps
Holmium	165-1	15451819	15317121	15272475	15347138	0.61	cps
Holmium	165-2	9980948	10446543	10552324	10326605	2.94	cps
Indium	115-1	10838873	10488016	10539525	10622138	1.78	cps
Indium	115-2	3868085	4087853	4067939	4007959	3.03	cps
Iron	56-2	367732661	362068995	364457408	364753021	0.78	cps
Iron	57-2	9174823	9240667	9084490	9166660	0.86	cps
Iron	54-2	19953234	19988816	19755297	19899116	0.63	cps
Krypton	83-1	147	127	110	128	14.37	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSA002 Instrumnet Name : P7
Client Sample ID : ICSA002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:56:41 DataFile Name : 017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	48985	47657	47218	47953	1.92	cps
Lead	207-1	39888	37849	37451	38396	3.40	cps
Lead	208-1	185614	181636	179884	182378	1.61	cps
Lithium	6-1	1167032	1113185	1139508	1139908	2.36	cps
Magnesium	24-2	32654691	32171951	32692456	32506366	0.89	cps
Manganese	55-2	27141	27141	26550	26944	1.27	cps
Molybdenum	94-1	5554845	5480261	5466728	5500611	0.86	cps
Molybdenum	95-1	9738659	9534637	9589510	9620935	1.10	cps
Molybdenum	96-1	10374009	10327628	10397642	10366426	0.34	cps
Molybdenum	97-1	5994992	6041274	6094481	6043582	0.82	cps
Molybdenum	98-1	15778250	15598873	15567205	15648109	0.73	cps
Neodymium	150-1	50	47	53	50	6.66	cps
Neodymium	150-2	30	23	43	32	31.61	cps
Nickel	60-2	8773	8296	8339	8469	3.11	cps
Phosphorus	31-2	990181	981811	990574	987522	0.50	cps
Potassium	39-2	45115891	44572561	45245418	44977957	0.79	cps
Rhodium	103-1	9391417	9113733	9155455	9220201	1.62	cps
Rhodium	103-2	5419264	5645946	5743198	5602803	2.97	cps
Scandium	45-1	5089366	4817607	4903190	4936721	2.81	cps
Scandium	45-2	473997	487405	499791	487064	2.65	cps
Selenium	82-1	514	434	479	476	8.43	cps
Selenium	77-2	3	3	7	4	43.40	cps
Selenium	78-2	387	360	387	378	4.08	cps
Silicon	28-1	710063	650306	656152	672174	4.90	cps
Silver	107-1	1503	1290	1363	1386	7.82	cps
Silver	109-1	1403	1383	1260	1349	5.76	cps
Sodium	23-2	56442621	56404936	56199796	56349117	0.23	cps
Strontium	86-1	104363	102534	104225	103707	0.98	cps
Strontium	88-1	919271	906377	912812	912820	0.71	cps
Sulfur	34-1	3305369	3132579	3192293	3210081	2.73	cps
Terbium	159-1	15480078	15305677	15314352	15366702	0.64	cps
Terbium	159-2	9755816	10013248	10260090	10009718	2.52	cps
Thallium	203-1	1550	1817	1600	1656	8.56	cps
Thallium	205-1	3734	4141	4474	4116	9.01	cps
Tin	118-1	4651	3951	3424	4008	15.36	cps
Titanium	47-1	2168101	2099513	2129309	2132308	1.61	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSA002 Instrumnet Name : P7
Client Sample ID : ICSA002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:56:41 DataFile Name : 017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3220	3237	3227	3228	0.26	cps
Vanadium	51-2	967	993	943	968	2.59	cps
Yttrium	89-1	16045846	15636471	15768468	15816928	1.32	cps
Yttrium	89-2	4464775	4623573	4742953	4610434	3.03	cps
Zinc	66-2	10574	10480	10701	10585	1.04	cps
Zirconium	90-1	2074	1987	1953	2005	3.09	cps
Zirconium	91-1	433	510	477	473	8.12	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSAB002 Instrumnet Name : P7
Client Sample ID : ICSAB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:59:47 DataFile Name : 018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18886886	18785418	18840163	18837489	0.27	cps
Antimony	121-1	238110	239440	237223	238258	0.47	cps
Arsenic	75-2	11888	11501	11645	11678	1.68	cps
Barium	135-1	63176	64190	64475	63947	1.07	cps
Barium	137-1	112783	113337	112084	112735	0.56	cps
Beryllium	9-1	22927	23434	23708	23357	1.70	cps
Bismuth	209-1	9956440	10005265	9836708	9932804	0.87	cps
Bismuth	209-2	7377791	7312546	7305761	7332033	0.54	cps
Bromine	81-1	15578	16326	16660	16188	3.42	cps
Bromine	81-2	603	557	617	592	5.32	cps
Cadmium	108-1	5331	5018	5038	5129	3.42	cps
Cadmium	106-1	13410	12936	13376	13241	2.00	cps
Cadmium	111-1	62774	62728	62467	62656	0.26	cps
Calcium	43-1	2211206	2234156	2245475	2230279	0.78	cps
Calcium	44-1	36261738	36534739	36394089	36396855	0.38	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	165002	164061	162820	163961	0.67	cps
Cobalt	59-2	138448	137590	138027	138022	0.31	cps
Copper	63-2	123565	123128	124076	123589	0.38	cps
Dysprosium	156-1	63	60	50	58	12.01	cps
Dysprosium	156-2	40	43	43	42	4.55	cps
Erbium	164-1	160	120	127	136	15.81	cps
Erbium	164-2	83	113	90	96	16.49	cps
Gadolinium	160-1	130	117	120	122	5.68	cps
Gadolinium	160-2	710	467	623	600	20.56	cps
Holmium	165-1	15790150	15922371	15712277	15808266	0.67	cps
Holmium	165-2	10765257	10729285	10769909	10754817	0.21	cps
Indium	115-1	10872937	10970590	10943101	10928876	0.46	cps
Indium	115-2	4274853	4167091	4241026	4227656	1.30	cps
Iron	56-2	368828968	363209875	364886261	365641701	0.79	cps
Iron	57-2	9268099	9266735	9119176	9218003	0.93	cps
Iron	54-2	20148341	19969466	19873639	19997148	0.70	cps
Krypton	83-1	183	140	153	159	13.97	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSAB002 Instrumnet Name : P7
Client Sample ID : ICSAB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:59:47 DataFile Name : 018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	251694	251221	253126	252014	0.39	cps
Lead	207-1	210467	211920	212489	211626	0.49	cps
Lead	208-1	978311	985469	988303	984028	0.52	cps
Lithium	6-1	1177803	1148294	1162203	1162767	1.27	cps
Magnesium	24-2	32769324	32622588	32756013	32715975	0.25	cps
Manganese	55-2	94631	94944	93729	94435	0.67	cps
Molybdenum	94-1	5509823	5556380	5598185	5554796	0.80	cps
Molybdenum	95-1	9774422	9870353	9769685	9804820	0.58	cps
Molybdenum	96-1	10618203	10495901	10632268	10582124	0.71	cps
Molybdenum	97-1	6075099	6087473	6162952	6108508	0.78	cps
Molybdenum	98-1	15864003	16012172	15967767	15947981	0.48	cps
Neodymium	150-1	67	67	83	72	13.32	cps
Neodymium	150-2	27	30	23	27	12.51	cps
Nickel	60-2	40528	40842	40869	40746	0.47	cps
Phosphorus	31-2	998456	988514	992043	993005	0.51	cps
Potassium	39-2	45179011	44930266	45535419	45214899	0.67	cps
Rhodium	103-1	9495178	9472668	9440631	9469492	0.29	cps
Rhodium	103-2	5897541	5850714	5868785	5872347	0.40	cps
Scandium	45-1	5048445	5081743	5025392	5051860	0.56	cps
Scandium	45-2	512660	510228	511709	511532	0.24	cps
Selenium	82-1	3602	3689	3721	3671	1.67	cps
Selenium	77-2	340	317	393	350	11.23	cps
Selenium	78-2	1637	1753	1723	1705	3.55	cps
Silicon	28-1	700873	695844	697336	698018	0.37	cps
Silver	107-1	258845	259659	258269	258924	0.27	cps
Silver	109-1	247989	247004	249875	248289	0.59	cps
Sodium	23-2	56841482	56644814	56180203	56555500	0.60	cps
Strontium	86-1	105874	106465	105777	106038	0.35	cps
Strontium	88-1	937153	934920	942796	938290	0.43	cps
Sulfur	34-1	3225441	3211473	3239275	3225396	0.43	cps
Terbium	159-1	16021475	15824354	15861364	15902398	0.66	cps
Terbium	159-2	10457493	10378311	10361205	10399003	0.49	cps
Thallium	203-1	256353	256208	259340	257300	0.69	cps
Thallium	205-1	603845	606207	614219	608090	0.89	cps
Tin	118-1	2757	2840	2877	2825	2.18	cps
Titanium	47-1	2143732	2158792	2159047	2153857	0.41	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : ICSAB002 Instrumnet Name : P7
Client Sample ID : ICSAB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 14:59:47 DataFile Name : 018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3210	3260	3080	3184	2.92	cps
Vanadium	51-2	74422	74596	73692	74237	0.65	cps
Yttrium	89-1	16249198	16324415	16269429	16281014	0.24	cps
Yttrium	89-2	4849519	4826256	4862691	4846155	0.38	cps
Zinc	66-2	25592	25772	25348	25571	0.83	cps
Zirconium	90-1	1920	1813	1947	1893	3.73	cps
Zirconium	91-1	520	453	373	449	16.36	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV006 Instrumnet Name : P7
Client Sample ID : CCV006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:02:50 DataFile Name : 019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10126154	10039489	10102990	10089544	0.44	cps
Antimony	121-1	5013626	5120682	5101227	5078511	1.12	cps
Arsenic	75-2	252034	250002	249296	250444	0.57	cps
Barium	135-1	6692384	6814173	6817287	6774614	1.05	cps
Barium	137-1	11909349	11987526	11977190	11958021	0.36	cps
Beryllium	9-1	495007	503929	502087	500341	0.94	cps
Bismuth	209-1	9571106	9643282	9488170	9567519	0.81	cps
Bismuth	209-2	7018868	6941697	6927336	6962634	0.71	cps
Bromine	81-1	13356	13673	13473	13501	1.19	cps
Bromine	81-2	207	150	200	186	16.69	cps
Cadmium	108-1	89547	91261	90366	90391	0.95	cps
Cadmium	106-1	133524	134650	134657	134277	0.49	cps
Cadmium	111-1	1213862	1222707	1228131	1221566	0.59	cps
Calcium	43-1	5349546	5434187	5391556	5391763	0.78	cps
Calcium	44-1	86748355	88167242	87785075	87566891	0.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1926934	1927797	1931567	1928766	0.13	cps
Cobalt	59-2	2935454	2919113	2879750	2911439	0.98	cps
Copper	63-2	20377054	20366757	20454626	20399479	0.24	cps
Dysprosium	156-1	410	390	397	399	2.55	cps
Dysprosium	156-2	620	543	567	577	6.82	cps
Erbium	164-1	407	487	380	424	13.08	cps
Erbium	164-2	257	313	243	271	13.71	cps
Gadolinium	160-1	347	327	293	322	8.36	cps
Gadolinium	160-2	820	747	737	768	5.93	cps
Holmium	165-1	15531731	15447454	15431727	15470304	0.35	cps
Holmium	165-2	10492790	10453444	10347339	10431191	0.72	cps
Indium	115-1	10667483	10542143	10390499	10533375	1.32	cps
Indium	115-2	4056287	3987138	4046291	4029906	0.93	cps
Iron	56-2	440363047	440056207	440126953	440182069	0.04	cps
Iron	57-2	11075119	11051168	10912840	11013042	0.80	cps
Iron	54-2	24082132	24024977	23935754	24014288	0.31	cps
Krypton	83-1	190	170	173	178	6.03	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV006 Instrumnet Name : P7
Client Sample ID : CCV006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:02:50 DataFile Name : 019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	23460310	23241310	23736003	23479208	1.06	cps
Lead	207-1	20416748	20720340	20729113	20622067	0.86	cps
Lead	208-1	94377282	95161967	94924290	94821180	0.42	cps
Lithium	6-1	1113797	1145524	1124612	1127978	1.43	cps
Magnesium	24-2	85744615	85182322	84974857	85300598	0.47	cps
Manganese	55-2	15392634	15387125	15375362	15385040	0.06	cps
Molybdenum	94-1	17102181	17391753	17134486	17209473	0.92	cps
Molybdenum	95-1	24282424	24528257	24452848	24421176	0.52	cps
Molybdenum	96-1	26721690	26845551	26846091	26804444	0.27	cps
Molybdenum	97-1	15327954	15384297	15198661	15303637	0.62	cps
Molybdenum	98-1	39344900	39645647	39312611	39434386	0.47	cps
Neodymium	150-1	567	593	630	597	5.33	cps
Neodymium	150-2	197	213	213	208	4.63	cps
Nickel	60-2	697051	687548	688615	691072	0.75	cps
Phosphorus	31-2	98249	95257	96598	96702	1.55	cps
Potassium	39-2	55869586	55698424	55352738	55640249	0.47	cps
Rhodium	103-1	9232951	9159964	9117663	9170192	0.64	cps
Rhodium	103-2	5633033	5610663	5580310	5608002	0.47	cps
Scandium	45-1	5013508	5041130	5005240	5019960	0.37	cps
Scandium	45-2	506494	505559	502688	504914	0.39	cps
Selenium	82-1	67200	68196	68024	67807	0.79	cps
Selenium	77-2	7982	7942	8292	8072	2.37	cps
Selenium	78-2	27185	27405	26427	27006	1.90	cps
Silicon	28-1	41569696	41861375	41841299	41757457	0.39	cps
Silver	107-1	6029415	6032658	6037725	6033266	0.07	cps
Silver	109-1	5661385	5727063	5674783	5687743	0.61	cps
Sodium	23-2	139506898	139664125	139749315	139640112	0.09	cps
Strontium	86-1	1512731	1514867	1538943	1522180	0.96	cps
Strontium	88-1	13567150	13424646	13412535	13468110	0.64	cps
Sulfur	34-1	408427	411730	409853	410003	0.40	cps
Terbium	159-1	15688465	15611724	15560575	15620254	0.41	cps
Terbium	159-2	10284426	10182467	10184757	10217217	0.57	cps
Thallium	203-1	5901675	5853075	5950068	5901606	0.82	cps
Thallium	205-1	14114136	13963029	14264760	14113975	1.07	cps
Tin	118-1	4198978	4238018	4203616	4213538	0.51	cps
Titanium	47-1	5201725	5177993	5100310	5160009	1.03	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV006 Instrumnet Name : P7
Client Sample ID : CCV006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:02:50 DataFile Name : 019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	20003413	20519896	20302094	20275135	1.28	cps
Vanadium	51-2	1731370	1722517	1727767	1727218	0.26	cps
Yttrium	89-1	16131236	15955892	15954783	16013970	0.63	cps
Yttrium	89-2	4734525	4654775	4671175	4686825	0.90	cps
Zinc	66-2	3423269	3380982	3397910	3400720	0.63	cps
Zirconium	90-1	8463278	8487561	8494279	8481706	0.19	cps
Zirconium	91-1	1877541	1887569	1874727	1879946	0.36	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB006 Instrumnet Name : P7
Client Sample ID : CCB006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:05:34 DataFile Name : 020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1250	1153	887	1097	17.16	cps
Antimony	121-1	3534	2754	2167	2818	24.33	cps
Arsenic	75-2	33	30	30	31	6.18	cps
Barium	135-1	2597	1860	1353	1937	32.28	cps
Barium	137-1	5068	3170	2247	3495	41.15	cps
Beryllium	9-1	267	260	217	248	10.96	cps
Bismuth	209-1	10640031	10631914	10624859	10632268	0.07	cps
Bismuth	209-2	7807268	7923149	7876509	7868975	0.74	cps
Bromine	81-1	13239	13703	13613	13519	1.82	cps
Bromine	81-2	200	113	160	158	27.49	cps
Cadmium	108-1	73	43	43	53	32.48	cps
Cadmium	106-1	8616	8586	8809	8670	1.40	cps
Cadmium	111-1	6630	6373	6423	6475	2.10	cps
Calcium	43-1	2424	1787	1453	1888	26.11	cps
Calcium	44-1	47087	34780	26708	36192	28.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	987	933	963	961	2.78	cps
Cobalt	59-2	403	340	277	340	18.63	cps
Copper	63-2	4811	4554	3981	4448	9.56	cps
Dysprosium	156-1	3	0	7	3	100.05	cps
Dysprosium	156-2	10	3	7	7	50.03	cps
Erbium	164-1	73	77	103	84	19.47	cps
Erbium	164-2	70	53	47	57	21.21	cps
Gadolinium	160-1	67	67	43	59	22.88	cps
Gadolinium	160-2	520	587	570	559	6.21	cps
Holmium	165-1	15660273	15653563	15931616	15748484	1.01	cps
Holmium	165-2	10704885	10833789	10658543	10732405	0.85	cps
Indium	115-1	11360527	11232024	11440342	11344298	0.93	cps
Indium	115-2	4377570	4457370	4362123	4399021	1.16	cps
Iron	56-2	70156	59825	52401	60794	14.67	cps
Iron	57-2	2347	2080	2020	2149	8.09	cps
Iron	54-2	4914	4201	3804	4306	13.07	cps
Krypton	83-1	170	140	153	154	9.73	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB006 Instrumnet Name : P7
Client Sample ID : CCB006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:05:34 DataFile Name : 020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10601	7689	5745	8011	30.51	cps
Lead	207-1	9307	6795	5018	7040	30.61	cps
Lead	208-1	42887	31428	22467	32261	31.73	cps
Lithium	6-1	1159224	1191479	1192079	1180927	1.59	cps
Magnesium	24-2	9686	8099	7102	8296	15.71	cps
Manganese	55-2	1993	1683	1367	1681	18.64	cps
Molybdenum	94-1	8019	5678	4457	6051	29.91	cps
Molybdenum	95-1	10931	7879	5678	8163	32.32	cps
Molybdenum	96-1	12656	8216	6221	9031	36.47	cps
Molybdenum	97-1	7285	4848	3500	5211	36.81	cps
Molybdenum	98-1	17928	12626	8813	13122	34.89	cps
Neodymium	150-1	7	10	3	7	50.03	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	313	340	343	332	4.95	cps
Phosphorus	31-2	347	343	277	322	12.25	cps
Potassium	39-2	57368	54561	53574	55167	3.57	cps
Rhodium	103-1	10010107	10170749	10099463	10093440	0.80	cps
Rhodium	103-2	6409066	6353694	6249055	6337272	1.28	cps
Scandium	45-1	5073124	5021244	5066916	5053761	0.56	cps
Scandium	45-2	514080	516751	515109	515313	0.26	cps
Selenium	82-1	429	500	457	462	7.72	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	383	417	347	382	9.16	cps
Silicon	28-1	626877	621139	623118	623712	0.47	cps
Silver	107-1	3224	2264	1557	2348	35.63	cps
Silver	109-1	2827	2180	1487	2165	30.96	cps
Sodium	23-2	50074	47172	43515	46920	7.01	cps
Strontium	86-1	870	730	500	700	26.69	cps
Strontium	88-1	5671	3917	2674	4087	36.85	cps
Sulfur	34-1	123961	124906	128350	125739	1.84	cps
Terbium	159-1	15853120	16232529	15873081	15986243	1.34	cps
Terbium	159-2	10484720	10606414	10400223	10497119	0.99	cps
Thallium	203-1	2917	2164	1720	2267	26.69	cps
Thallium	205-1	6648	5158	3841	5216	26.93	cps
Tin	118-1	2684	2254	1710	2216	22.02	cps
Titanium	47-1	2267	1647	1173	1696	32.34	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB006 Instrumnet Name : P7
Client Sample ID : CCB006 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 15:05:34 DataFile Name : 020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8289	5395	3881	5855	38.26	cps
Vanadium	51-2	203	210	143	186	19.79	cps
Yttrium	89-1	16257626	16323746	16394155	16325176	0.42	cps
Yttrium	89-2	4918835	4875912	4841319	4878689	0.80	cps
Zinc	66-2	750	637	597	661	12.03	cps
Zirconium	90-1	4531	3594	2624	3583	26.62	cps
Zirconium	91-1	963	743	523	743	29.60	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-04DLX16 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 16
Date & Time Acquired : 2025-01-14 15:52:07 DataFile Name : 021SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	156610	157539	157309	157153	0.31	cps
Antimony	121-1	26922	27623	27002	27182	1.41	cps
Arsenic	75-2	3114	3164	3157	3145	0.86	cps
Barium	135-1	39879	39170	39879	39643	1.03	cps
Barium	137-1	67392	70329	68845	68856	2.13	cps
Beryllium	9-1	123	163	150	146	13.99	cps
Bismuth	209-1	11029049	10913376	10945197	10962541	0.55	cps
Bismuth	209-2	8392751	8370815	8374790	8379452	0.14	cps
Bromine	81-1	16476	17344	17397	17072	3.03	cps
Bromine	81-2	180	233	187	200	14.53	cps
Cadmium	108-1	573	647	653	624	7.11	cps
Cadmium	106-1	9613	9740	9813	9722	1.04	cps
Cadmium	111-1	14290	14554	14544	14463	1.04	cps
Calcium	43-1	6912	6955	7285	7051	2.90	cps
Calcium	44-1	120067	122577	122130	121591	1.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4317	4234	4284	4278	0.98	cps
Cobalt	59-2	10944	10674	10721	10779	1.34	cps
Copper	63-2	2839310	2830860	2796430	2822200	0.80	cps
Dysprosium	156-1	2914	2967	3077	2986	2.79	cps
Dysprosium	156-2	2627	2860	2667	2718	4.59	cps
Erbium	164-1	2577	2807	2667	2684	4.32	cps
Erbium	164-2	1994	1883	1793	1890	5.30	cps
Gadolinium	160-1	2940	2797	2960	2899	3.07	cps
Gadolinium	160-2	2627	2560	2680	2622	2.29	cps
Holmium	165-1	15820250	15724859	16016065	15853725	0.94	cps
Holmium	165-2	11099832	10970604	11079549	11049995	0.63	cps
Indium	115-1	12258455	12233941	12236170	12242855	0.11	cps
Indium	115-2	4704674	4686002	4678879	4689852	0.28	cps
Iron	56-2	18883713	18879496	18896931	18886714	0.05	cps
Iron	57-2	480038	476328	479705	478690	0.43	cps
Iron	54-2	1049919	1046093	1048710	1048241	0.19	cps
Krypton	83-1	197	173	227	199	13.44	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-04DLX16 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 16
Date & Time Acquired : 2025-01-14 15:52:07 DataFile Name : 021SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	15203494	15030721	15474237	15236151	1.47	cps
Lead	207-1	12594878	12663299	12828915	12695697	0.95	cps
Lead	208-1	59159007	58919565	59901357	59326643	0.86	cps
Lithium	6-1	1145494	1148527	1147063	1147028	0.13	cps
Magnesium	24-2	139041	139643	139522	139402	0.23	cps
Manganese	55-2	5054989	5034591	5076657	5055412	0.42	cps
Molybdenum	94-1	18428	18672	19283	18794	2.34	cps
Molybdenum	95-1	31784	32032	32844	32220	1.72	cps
Molybdenum	96-1	34895	34591	34698	34728	0.44	cps
Molybdenum	97-1	20304	20127	20101	20177	0.55	cps
Molybdenum	98-1	51674	51624	52491	51930	0.94	cps
Neodymium	150-1	4584	4651	4681	4639	1.07	cps
Neodymium	150-2	2944	2734	3007	2895	4.94	cps
Nickel	60-2	2154	2084	2000	2079	3.69	cps
Phosphorus	31-2	1433	1317	1443	1398	5.04	cps
Potassium	39-2	95983	96409	96959	96451	0.51	cps
Rhodium	103-1	11105985	11080772	11131969	11106242	0.23	cps
Rhodium	103-2	6783002	6749140	6852726	6794956	0.78	cps
Scandium	45-1	5946939	5957716	5899179	5934611	0.52	cps
Scandium	45-2	589631	589045	592905	590527	0.35	cps
Selenium	82-1	623	592	566	594	4.82	cps
Selenium	77-2	20	33	13	22	45.83	cps
Selenium	78-2	517	520	460	499	6.76	cps
Silicon	28-1	2579969	2585608	2580942	2582173	0.12	cps
Silver	107-1	140687	143558	143733	142660	1.20	cps
Silver	109-1	135634	138123	137619	137125	0.96	cps
Sodium	23-2	23491	23511	23465	23489	0.10	cps
Strontium	86-1	8416	8413	8776	8535	2.45	cps
Strontium	88-1	71945	71948	72350	72081	0.32	cps
Sulfur	34-1	201139	204483	204431	203351	0.94	cps
Terbium	159-1	16239232	16307880	16276129	16274414	0.21	cps
Terbium	159-2	10761981	10771970	10680376	10738109	0.47	cps
Thallium	203-1	660	660	687	669	2.30	cps
Thallium	205-1	1490	1440	1557	1496	3.91	cps
Tin	118-1	69299	69835	70270	69801	0.70	cps
Titanium	47-1	4394	4394	4644	4477	3.22	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-04DLX16 Instrumnet Name : P7
Client Sample ID : MH2D35 Dilution Factor : 16
Date & Time Acquired : 2025-01-14 15:52:07 DataFile Name : 021SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4641	4651	4921	4738	3.35	cps
Vanadium	51-2	6531	6575	6818	6642	2.33	cps
Yttrium	89-1	18230314	18153939	18202503	18195586	0.21	cps
Yttrium	89-2	5411824	5383605	5375487	5390305	0.35	cps
Zinc	66-2	434498	433722	434768	434329	0.13	cps
Zirconium	90-1	1570	1457	1470	1499	4.13	cps
Zirconium	91-1	387	263	280	310	21.59	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-07DLX20 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:55:16 DataFile Name : 022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15084	15081	14924	15030	0.61	cps
Antimony	121-1	199720	200901	201882	200834	0.54	cps
Arsenic	75-2	81173	81452	80409	81011	0.67	cps
Barium	135-1	30843	31348	31425	31205	1.01	cps
Barium	137-1	54317	54454	54591	54454	0.25	cps
Beryllium	9-1	50	47	53	50	6.66	cps
Bismuth	209-1	11745960	10210971	11065053	11007328	6.99	cps
Bismuth	209-2	8800521	8794610	8804496	8799875	0.06	cps
Bromine	81-1	17314	17274	17531	17373	0.80	cps
Bromine	81-2	173	207	147	176	17.12	cps
Cadmium	108-1	103	143	123	123	16.22	cps
Cadmium	106-1	9540	8416	8813	8923	6.39	cps
Cadmium	111-1	7889	7114	7399	7468	5.25	cps
Calcium	43-1	843	760	850	818	6.13	cps
Calcium	44-1	19553	19350	19016	19306	1.41	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2890	2864	2660	2805	4.49	cps
Cobalt	59-2	807	777	913	832	8.63	cps
Copper	63-2	1952954	1972739	1981986	1969226	0.75	cps
Dysprosium	156-1	273	293	330	299	9.62	cps
Dysprosium	156-2	257	313	283	284	9.97	cps
Erbium	164-1	217	227	253	232	8.16	cps
Erbium	164-2	213	167	130	170	24.57	cps
Gadolinium	160-1	427	383	310	373	15.80	cps
Gadolinium	160-2	847	890	780	839	6.61	cps
Holmium	165-1	16456401	13530746	14640746	14875965	9.93	cps
Holmium	165-2	10923251	11008425	10799590	10910422	0.96	cps
Indium	115-1	12411292	10631910	11378426	11473876	7.79	cps
Indium	115-2	4769883	4722959	4652762	4715202	1.25	cps
Iron	56-2	28992930	28533554	28878492	28801658	0.83	cps
Iron	57-2	727888	730447	725644	727993	0.33	cps
Iron	54-2	1563759	1573339	1585371	1574156	0.69	cps
Krypton	83-1	160	230	173	188	19.79	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-07DLX20 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:55:16 DataFile Name : 022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	28818047	28801940	28801899	28807295	0.03	cps
Lead	207-1	24043895	23975557	24219837	24079763	0.52	cps
Lead	208-1	111958798	112543308	113041098	112514401	0.48	cps
Lithium	6-1	1186086	990799	1077702	1084862	9.02	cps
Magnesium	24-2	5678	5781	5734	5731	0.90	cps
Manganese	55-2	226494	224946	224502	225314	0.46	cps
Molybdenum	94-1	32352	32119	32977	32483	1.37	cps
Molybdenum	95-1	55562	56723	55706	55997	1.13	cps
Molybdenum	96-1	60183	60906	60374	60488	0.62	cps
Molybdenum	97-1	35172	36158	35657	35662	1.38	cps
Molybdenum	98-1	90739	92192	91387	91439	0.80	cps
Neodymium	150-1	617	573	637	609	5.32	cps
Neodymium	150-2	337	413	397	382	10.55	cps
Nickel	60-2	813	813	870	832	3.93	cps
Phosphorus	31-2	860	917	633	803	18.66	cps
Potassium	39-2	163787	162921	164842	163850	0.59	cps
Rhodium	103-1	11346018	9646873	10360077	10450989	8.16	cps
Rhodium	103-2	6868762	6834357	6778686	6827268	0.67	cps
Scandium	45-1	5987327	5205977	5489382	5560895	7.11	cps
Scandium	45-2	600441	597550	594143	597378	0.53	cps
Selenium	82-1	646	575	644	622	6.51	cps
Selenium	77-2	30	17	17	21	36.45	cps
Selenium	78-2	467	487	453	469	3.58	cps
Silicon	28-1	1540152	1563008	1558193	1553784	0.78	cps
Silver	107-1	125856	127272	127380	126836	0.67	cps
Silver	109-1	119675	120859	120855	120463	0.57	cps
Sodium	23-2	24086	23535	24082	23901	1.33	cps
Strontium	86-1	8119	7899	7939	7986	1.47	cps
Strontium	88-1	66861	68090	67517	67489	0.91	cps
Sulfur	34-1	239799	238804	238331	238978	0.31	cps
Terbium	159-1	16291995	13946598	15002973	15080522	7.79	cps
Terbium	159-2	10742885	10880220	10681991	10768365	0.94	cps
Thallium	203-1	2700	2730	2870	2767	3.28	cps
Thallium	205-1	6385	6565	6255	6402	2.43	cps
Tin	118-1	26782	26514	26681	26659	0.51	cps
Titanium	47-1	420	390	453	421	7.52	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-07DLX20 Instrumnet Name : P7
Client Sample ID : MH2D44 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:55:16 DataFile Name : 022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1057	1270	1157	1161	9.19	cps
Vanadium	51-2	4621	4401	4387	4470	2.93	cps
Yttrium	89-1	18500031	15748645	16656096	16968257	8.26	cps
Yttrium	89-2	5334601	5366080	5395261	5365314	0.57	cps
Zinc	66-2	127138	126752	127922	127271	0.47	cps
Zirconium	90-1	680	650	740	690	6.64	cps
Zirconium	91-1	223	250	267	247	8.86	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-08DLX20 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:58:27 DataFile Name : 023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	29789	30393	30257	30146	1.05	cps
Antimony	121-1	74703	76324	75285	75437	1.09	cps
Arsenic	75-2	38526	38233	37801	38187	0.96	cps
Barium	135-1	15425	14918	15368	15237	1.82	cps
Barium	137-1	26859	27073	27383	27105	0.97	cps
Beryllium	9-1	60	77	60	66	14.68	cps
Bismuth	209-1	11204369	11042368	11110008	11118915	0.73	cps
Bismuth	209-2	8545698	8407070	8411940	8454903	0.93	cps
Bromine	81-1	17330	17380	17757	17489	1.34	cps
Bromine	81-2	177	157	187	173	8.81	cps
Cadmium	108-1	833	860	903	866	4.08	cps
Cadmium	106-1	10554	10757	10747	10686	1.07	cps
Cadmium	111-1	19056	19427	19703	19395	1.67	cps
Calcium	43-1	1633	1543	1680	1619	4.29	cps
Calcium	44-1	32081	31540	32465	32029	1.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3100	3027	3034	3054	1.33	cps
Cobalt	59-2	3691	3694	3674	3686	0.29	cps
Copper	63-2	1614056	1612786	1623947	1616930	0.38	cps
Dysprosium	156-1	493	507	517	506	2.32	cps
Dysprosium	156-2	360	433	470	421	13.30	cps
Erbium	164-1	473	390	367	410	13.68	cps
Erbium	164-2	363	353	317	344	7.13	cps
Gadolinium	160-1	493	547	477	506	7.23	cps
Gadolinium	160-2	937	930	1020	962	5.21	cps
Holmium	165-1	16080879	16048644	15914898	16014807	0.55	cps
Holmium	165-2	11030519	10854510	11002344	10962458	0.86	cps
Indium	115-1	12149269	12146249	12359699	12218406	1.00	cps
Indium	115-2	4786051	4708530	4711177	4735253	0.93	cps
Iron	56-2	28719615	28758564	28754039	28744073	0.07	cps
Iron	57-2	732043	731920	731224	731729	0.06	cps
Iron	54-2	1599412	1599527	1607702	1602214	0.30	cps
Krypton	83-1	183	173	213	190	10.96	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-08DLX20 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:58:27 DataFile Name : 023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	26566985	26500036	26667065	26578028	0.32	cps
Lead	207-1	22536516	22441314	22277188	22418339	0.59	cps
Lead	208-1	104533736	105052019	103880837	104488864	0.56	cps
Lithium	6-1	1168119	1157949	1172958	1166342	0.66	cps
Magnesium	24-2	18451	18281	18147	18293	0.83	cps
Manganese	55-2	608338	605898	604027	606088	0.36	cps
Molybdenum	94-1	26972	27092	27439	27167	0.89	cps
Molybdenum	95-1	46290	46748	47259	46766	1.04	cps
Molybdenum	96-1	50895	51965	51239	51366	1.06	cps
Molybdenum	97-1	28935	29667	29884	29495	1.68	cps
Molybdenum	98-1	75711	77263	75393	76123	1.31	cps
Neodymium	150-1	850	767	750	789	6.79	cps
Neodymium	150-2	457	530	463	483	8.39	cps
Nickel	60-2	877	1070	957	968	10.04	cps
Phosphorus	31-2	777	903	823	834	7.68	cps
Potassium	39-2	150468	149674	151148	150430	0.49	cps
Rhodium	103-1	11205605	11141092	11188218	11178305	0.30	cps
Rhodium	103-2	6863078	6885833	6867990	6872300	0.17	cps
Scandium	45-1	6060719	5997095	6093862	6050558	0.81	cps
Scandium	45-2	600651	597830	604180	600887	0.53	cps
Selenium	82-1	612	596	587	598	2.12	cps
Selenium	77-2	17	10	20	16	32.73	cps
Selenium	78-2	577	567	473	539	10.58	cps
Silicon	28-1	1717231	1710002	1696270	1707835	0.62	cps
Silver	107-1	146339	147221	147874	147145	0.52	cps
Silver	109-1	138440	139497	140085	139341	0.60	cps
Sodium	23-2	23044	22920	23107	23024	0.41	cps
Strontium	86-1	5494	5628	5851	5658	3.19	cps
Strontium	88-1	48654	47934	48266	48284	0.75	cps
Sulfur	34-1	269385	270793	270542	270240	0.28	cps
Terbium	159-1	16378464	16325287	16361339	16355030	0.17	cps
Terbium	159-2	10703659	10737196	10727262	10722706	0.16	cps
Thallium	203-1	1800	2097	2040	1979	7.96	cps
Thallium	205-1	4567	4437	4754	4586	3.47	cps
Tin	118-1	22698	22461	23329	22829	1.97	cps
Titanium	47-1	397	433	427	419	4.66	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-08DLX20 Instrumnet Name : P7
Client Sample ID : MH2D47 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 15:58:27 DataFile Name : 023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1793	1683	1683	1720	3.69	cps
Vanadium	51-2	4417	4311	3964	4231	5.60	cps
Yttrium	89-1	18220745	18183544	18321475	18241921	0.39	cps
Yttrium	89-2	5401831	5408743	5326662	5379078	0.85	cps
Zinc	66-2	810920	802308	805424	806217	0.54	cps
Zirconium	90-1	877	750	863	830	8.39	cps
Zirconium	91-1	207	227	220	218	4.68	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-10DLX20 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:01:35 DataFile Name : 024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	175672	176435	177811	176639	0.61	cps
Antimony	121-1	5561	5618	5414	5531	1.90	cps
Arsenic	75-2	2727	2527	2764	2672	4.77	cps
Barium	135-1	42537	42730	42841	42703	0.36	cps
Barium	137-1	74142	73267	74379	73930	0.79	cps
Beryllium	9-1	103	120	117	113	7.78	cps
Bismuth	209-1	10327310	10571102	10562756	10487056	1.32	cps
Bismuth	209-2	7849496	7681397	7852596	7794496	1.26	cps
Bromine	81-1	17340	17010	17437	17262	1.30	cps
Bromine	81-2	213	217	223	218	2.34	cps
Cadmium	108-1	237	287	280	268	10.14	cps
Cadmium	106-1	10160	9910	9934	10001	1.38	cps
Cadmium	111-1	10354	10013	10225	10197	1.68	cps
Calcium	43-1	6882	6678	6728	6763	1.57	cps
Calcium	44-1	113084	113527	114303	113638	0.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5688	5481	5634	5601	1.92	cps
Cobalt	59-2	5311	5304	5568	5394	2.78	cps
Copper	63-2	180835	181605	178663	180368	0.85	cps
Dysprosium	156-1	3007	3007	3060	3025	1.02	cps
Dysprosium	156-2	2617	2490	2737	2615	4.72	cps
Erbium	164-1	2177	2307	2317	2267	3.45	cps
Erbium	164-2	1600	1510	1560	1557	2.90	cps
Gadolinium	160-1	2694	2874	2707	2758	3.64	cps
Gadolinium	160-2	2490	2664	2600	2585	3.39	cps
Holmium	165-1	15799014	15902717	15906910	15869547	0.39	cps
Holmium	165-2	11040146	10930629	10995595	10988790	0.50	cps
Indium	115-1	12273807	12284160	12276370	12278112	0.04	cps
Indium	115-2	4661908	4718588	4672220	4684239	0.64	cps
Iron	56-2	17370753	17336191	17408797	17371914	0.21	cps
Iron	57-2	440713	442400	439632	440915	0.32	cps
Iron	54-2	969526	971236	973058	971273	0.18	cps
Krypton	83-1	190	187	207	194	5.51	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-10DLX20 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:01:35 DataFile Name : 024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2700739	2790603	2803596	2764979	2.03	cps
Lead	207-1	2342568	2432267	2409448	2394761	1.95	cps
Lead	208-1	10804827	11192132	11103700	11033553	1.84	cps
Lithium	6-1	1149173	1156576	1134836	1146862	0.96	cps
Magnesium	24-2	186317	185716	187799	186611	0.57	cps
Manganese	55-2	538519	537359	537300	537726	0.13	cps
Molybdenum	94-1	4204	4061	4094	4120	1.82	cps
Molybdenum	95-1	6518	6695	6562	6592	1.40	cps
Molybdenum	96-1	7399	7249	7409	7352	1.22	cps
Molybdenum	97-1	4047	4234	4311	4197	3.23	cps
Molybdenum	98-1	10164	10454	10511	10376	1.79	cps
Neodymium	150-1	5024	5428	5271	5241	3.88	cps
Neodymium	150-2	3200	3330	3337	3289	2.34	cps
Nickel	60-2	1637	1550	1560	1582	3.00	cps
Phosphorus	31-2	2370	2524	2324	2406	4.35	cps
Potassium	39-2	127008	126413	128208	127209	0.72	cps
Rhodium	103-1	11342193	11251696	11107985	11233958	1.05	cps
Rhodium	103-2	6726542	6850147	6806214	6794301	0.92	cps
Scandium	45-1	6100462	6102943	6089714	6097706	0.12	cps
Scandium	45-2	602244	596347	600961	599851	0.52	cps
Selenium	82-1	529	569	528	542	4.34	cps
Selenium	77-2	0	10	20	10	100.00	cps
Selenium	78-2	543	513	513	523	3.31	cps
Silicon	28-1	2619511	2619578	2621271	2620120	0.04	cps
Silver	107-1	16740	17961	17674	17458	3.66	cps
Silver	109-1	16780	16997	16176	16651	2.55	cps
Sodium	23-2	29178	28877	29495	29183	1.06	cps
Strontium	86-1	11354	11455	11415	11408	0.44	cps
Strontium	88-1	98390	97715	98863	98322	0.59	cps
Sulfur	34-1	191126	189007	189237	189790	0.61	cps
Terbium	159-1	16316386	16091645	16379815	16262615	0.93	cps
Terbium	159-2	10953807	10661111	10710532	10775150	1.45	cps
Thallium	203-1	480	440	497	472	6.17	cps
Thallium	205-1	1133	1123	1073	1110	2.90	cps
Tin	118-1	2417	2650	2680	2582	5.58	cps
Titanium	47-1	10530	10190	10050	10257	2.41	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-10DLX20 Instrumnet Name : P7
Client Sample ID : MH2D53 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:01:35 DataFile Name : 024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3694	3584	3701	3659	1.79	cps
Vanadium	51-2	8939	9236	9063	9079	1.64	cps
Yttrium	89-1	18149244	18309950	18327360	18262185	0.54	cps
Yttrium	89-2	5418230	5396712	5397641	5404194	0.23	cps
Zinc	66-2	250447	250094	252704	251082	0.56	cps
Zirconium	90-1	1500	1430	1380	1437	4.20	cps
Zirconium	91-1	297	280	273	283	4.24	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DLX20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:07:05 DataFile Name : 025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	48613	48376	49172	48720	0.84	cps
Antimony	121-1	322526	322779	324786	323364	0.38	cps
Arsenic	75-2	93948	91875	92962	92928	1.12	cps
Barium	135-1	33128	32738	33336	33067	0.92	cps
Barium	137-1	57556	58269	57891	57905	0.62	cps
Beryllium	9-1	60	80	90	77	19.92	cps
Bismuth	209-1	13071871	12882711	12794718	12916433	1.10	cps
Bismuth	209-2	9679911	9626487	9557307	9621235	0.64	cps
Bromine	81-1	16549	17767	17561	17292	3.77	cps
Bromine	81-2	180	220	163	188	15.51	cps
Cadmium	108-1	377	377	347	367	4.73	cps
Cadmium	106-1	9770	9964	10287	10007	2.61	cps
Cadmium	111-1	11093	11208	11419	11240	1.47	cps
Calcium	43-1	3751	3504	3640	3632	3.40	cps
Calcium	44-1	62498	63101	64323	63308	1.47	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4837	4817	4511	4722	3.88	cps
Cobalt	59-2	2037	1977	1870	1961	4.30	cps
Copper	63-2	3825247	3861385	3846557	3844396	0.47	cps
Dysprosium	156-1	990	1087	1087	1054	5.29	cps
Dysprosium	156-2	903	903	980	929	4.77	cps
Erbium	164-1	783	817	830	810	2.97	cps
Erbium	164-2	593	590	423	536	18.15	cps
Gadolinium	160-1	910	1003	957	957	4.88	cps
Gadolinium	160-2	1173	1243	1353	1257	7.22	cps
Holmium	165-1	16414558	16107282	16105566	16209135	1.10	cps
Holmium	165-2	11147394	11082427	11149701	11126507	0.34	cps
Indium	115-1	12356422	12501399	12396036	12417952	0.60	cps
Indium	115-2	4915026	4829726	4844745	4863166	0.94	cps
Iron	56-2	43076103	42926991	42900456	42967850	0.22	cps
Iron	57-2	1087444	1074315	1082628	1081462	0.61	cps
Iron	54-2	2340961	2324577	2354136	2339891	0.63	cps
Krypton	83-1	137	170	177	161	13.30	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DLX20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:07:05 DataFile Name : 025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	67260429	67607191	67253389	67373670	0.30	cps
Lead	207-1	56717992	56443699	56510044	56557245	0.25	cps
Lead	208-1	262870473	263688338	261951424	262836745	0.33	cps
Lithium	6-1	1179457	1180264	1180083	1179935	0.04	cps
Magnesium	24-2	25718	25762	26209	25896	1.05	cps
Manganese	55-2	494409	498728	499974	497704	0.59	cps
Molybdenum	94-1	89243	90423	90846	90171	0.92	cps
Molybdenum	95-1	154337	155570	156803	155570	0.79	cps
Molybdenum	96-1	168070	169962	170156	169396	0.68	cps
Molybdenum	97-1	96868	98864	99479	98404	1.39	cps
Molybdenum	98-1	254342	254297	255982	254874	0.38	cps
Neodymium	150-1	1830	1793	1787	1803	1.29	cps
Neodymium	150-2	1053	1177	1033	1088	7.14	cps
Nickel	60-2	970	1010	990	990	2.02	cps
Phosphorus	31-2	1160	1090	1050	1100	5.06	cps
Potassium	39-2	127203	128756	129021	128326	0.77	cps
Rhodium	103-1	11268890	11400302	11507116	11392103	1.05	cps
Rhodium	103-2	7036457	6986665	7034791	7019304	0.40	cps
Scandium	45-1	6169663	6180734	6225804	6192067	0.48	cps
Scandium	45-2	623748	618500	620384	620877	0.43	cps
Selenium	82-1	879	824	863	855	3.33	cps
Selenium	77-2	30	30	40	33	17.32	cps
Selenium	78-2	613	507	547	556	9.70	cps
Silicon	28-1	1754278	1780982	1778490	1771250	0.83	cps
Silver	107-1	128213	130564	130517	129765	1.04	cps
Silver	109-1	120253	122304	125033	122530	1.96	cps
Sodium	23-2	26089	26409	26176	26225	0.63	cps
Strontium	86-1	52634	53326	53868	53276	1.16	cps
Strontium	88-1	465953	466494	470778	467742	0.57	cps
Sulfur	34-1	247706	251052	252351	250370	0.96	cps
Terbium	159-1	16688491	16485849	16170977	16448439	1.59	cps
Terbium	159-2	10941977	10914488	10904424	10920296	0.18	cps
Thallium	203-1	2210	2220	2194	2208	0.61	cps
Thallium	205-1	5191	5414	5411	5339	2.40	cps
Tin	118-1	36580	37435	36650	36888	1.29	cps
Titanium	47-1	2414	2457	2234	2368	5.00	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DLX20 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 20
Date & Time Acquired : 2025-01-14 16:07:05 DataFile Name : 025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	5438	5498	5855	5597	4.03	cps
Vanadium	51-2	6511	6998	6712	6740	3.63	cps
Yttrium	89-1	18636316	18523229	18361170	18506905	0.75	cps
Yttrium	89-2	5555444	5593037	5589565	5579349	0.37	cps
Zinc	66-2	342876	339981	344770	342542	0.70	cps
Zirconium	90-1	1430	1540	1500	1490	3.74	cps
Zirconium	91-1	420	470	483	458	7.29	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DL2X40 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 40
Date & Time Acquired : 2025-01-14 16:11:29 DataFile Name : 026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25087	25174	24914	25058	0.53	cps
Antimony	121-1	163575	163575	164465	163871	0.31	cps
Arsenic	75-2	46790	46887	46720	46799	0.18	cps
Barium	135-1	16486	16593	16863	16648	1.17	cps
Barium	137-1	28986	28752	29116	28952	0.64	cps
Beryllium	9-1	33	50	80	54	43.44	cps
Bismuth	209-1	11686125	11675678	11650058	11670620	0.16	cps
Bismuth	209-2	8877275	8736877	8802394	8805515	0.80	cps
Bromine	81-1	18004	17904	18031	17980	0.37	cps
Bromine	81-2	150	163	147	153	5.75	cps
Cadmium	108-1	247	220	173	213	17.40	cps
Cadmium	106-1	9790	10024	9897	9903	1.18	cps
Cadmium	111-1	8904	8763	8977	8881	1.22	cps
Calcium	43-1	2067	2057	2077	2067	0.48	cps
Calcium	44-1	40458	40939	41013	40803	0.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3864	3634	3741	3746	3.07	cps
Cobalt	59-2	1040	1037	900	992	8.05	cps
Copper	63-2	1910278	1952529	1901963	1921590	1.41	cps
Dysprosium	156-1	510	597	483	530	11.18	cps
Dysprosium	156-2	483	487	520	497	4.08	cps
Erbium	164-1	477	530	410	472	12.73	cps
Erbium	164-2	323	313	320	319	1.60	cps
Gadolinium	160-1	523	470	550	514	7.92	cps
Gadolinium	160-2	870	880	963	904	5.67	cps
Holmium	165-1	16423842	16137096	16108139	16223026	1.08	cps
Holmium	165-2	11175054	11064928	11049067	11096350	0.62	cps
Indium	115-1	12478645	12356350	12426339	12420445	0.49	cps
Indium	115-2	4889458	4829174	4780910	4833181	1.13	cps
Iron	56-2	21457433	21288913	21315762	21354036	0.42	cps
Iron	57-2	544897	548720	545883	546500	0.36	cps
Iron	54-2	1199568	1194128	1192435	1195377	0.31	cps
Krypton	83-1	193	140	140	158	19.52	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DL2X40 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 40
Date & Time Acquired : 2025-01-14 16:11:29 DataFile Name : 026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	33841641	33526531	34049319	33805830	0.78	cps
Lead	207-1	28203757	28549325	28445477	28399520	0.62	cps
Lead	208-1	131817242	132917629	132963311	132566061	0.49	cps
Lithium	6-1	1177736	1185591	1156855	1173394	1.27	cps
Magnesium	24-2	13726	13179	13426	13444	2.04	cps
Manganese	55-2	250136	248802	248080	249006	0.42	cps
Molybdenum	94-1	45273	45651	46617	45847	1.51	cps
Molybdenum	95-1	77618	79213	79072	78634	1.12	cps
Molybdenum	96-1	85548	85756	85018	85441	0.45	cps
Molybdenum	97-1	49082	49206	50189	49492	1.23	cps
Molybdenum	98-1	127174	129417	128670	128421	0.89	cps
Neodymium	150-1	973	847	863	894	7.69	cps
Neodymium	150-2	593	503	560	552	8.24	cps
Nickel	60-2	877	967	923	922	4.88	cps
Phosphorus	31-2	730	733	670	711	5.01	cps
Potassium	39-2	95262	95265	96745	95758	0.89	cps
Rhodium	103-1	11467008	11372739	11360194	11399981	0.51	cps
Rhodium	103-2	7011754	7057459	6960312	7009842	0.69	cps
Scandium	45-1	6146849	6192731	6204684	6181421	0.49	cps
Scandium	45-2	619152	622593	617642	619796	0.41	cps
Selenium	82-1	709	754	676	713	5.47	cps
Selenium	77-2	13	10	17	13	25.01	cps
Selenium	78-2	533	537	520	530	1.66	cps
Silicon	28-1	1513731	1515102	1533815	1520883	0.74	cps
Silver	107-1	65266	64794	65095	65052	0.37	cps
Silver	109-1	60887	61590	62731	61736	1.51	cps
Sodium	23-2	23371	22960	23375	23235	1.02	cps
Strontium	86-1	26931	27182	27025	27046	0.47	cps
Strontium	88-1	237607	235767	236784	236720	0.39	cps
Sulfur	34-1	217667	216897	217600	217388	0.20	cps
Terbium	159-1	16288841	16563435	16448501	16433592	0.84	cps
Terbium	159-2	11191862	10901851	10892744	10995485	1.55	cps
Thallium	203-1	1283	1217	1260	1253	2.70	cps
Thallium	205-1	2887	2800	2817	2835	1.62	cps
Tin	118-1	19470	19376	19283	19376	0.48	cps
Titanium	47-1	1280	1280	1277	1279	0.15	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : P5388-11DL2X40 Instrumnet Name : P7
Client Sample ID : MH2D56 Dilution Factor : 40
Date & Time Acquired : 2025-01-14 16:11:29 DataFile Name : 026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3107	3067	2877	3017	4.07	cps
Vanadium	51-2	3670	3537	3544	3584	2.10	cps
Yttrium	89-1	18610118	18694938	18682418	18662491	0.25	cps
Yttrium	89-2	5592646	5569953	5559797	5574132	0.30	cps
Zinc	66-2	174068	170015	171098	171727	1.22	cps
Zirconium	90-1	1007	1087	1090	1061	4.45	cps
Zirconium	91-1	243	220	250	238	6.63	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV007 Instrumnet Name : P7
Client Sample ID : CCV007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:14:40 DataFile Name : 027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10026198	10062068	9997259	10028508	0.32	cps
Antimony	121-1	5041278	5059913	4970436	5023876	0.94	cps
Arsenic	75-2	247301	247263	245664	246743	0.38	cps
Barium	135-1	6778815	6783256	6734467	6765513	0.40	cps
Barium	137-1	11804879	11796109	11867469	11822819	0.33	cps
Beryllium	9-1	524193	520754	514427	519791	0.95	cps
Bismuth	209-1	9754709	9647715	9631793	9678072	0.69	cps
Bismuth	209-2	6988128	7065903	7042739	7032257	0.57	cps
Bromine	81-1	14878	13800	13400	14026	5.45	cps
Bromine	81-2	177	110	130	139	24.63	cps
Cadmium	108-1	91745	89756	89976	90492	1.20	cps
Cadmium	106-1	137850	135814	134327	135997	1.30	cps
Cadmium	111-1	1234012	1229544	1216560	1226705	0.74	cps
Calcium	43-1	5520004	5292353	5317438	5376598	2.32	cps
Calcium	44-1	90116219	87621539	86481962	88073240	2.11	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1891637	1895618	1906118	1897791	0.39	cps
Cobalt	59-2	2877809	2882449	2877628	2879295	0.09	cps
Copper	63-2	20010436	20040109	20107069	20052538	0.25	cps
Dysprosium	156-1	400	443	383	409	7.57	cps
Dysprosium	156-2	540	503	537	527	3.85	cps
Erbium	164-1	363	440	397	400	9.61	cps
Erbium	164-2	293	297	263	284	6.45	cps
Gadolinium	160-1	367	317	313	332	8.99	cps
Gadolinium	160-2	750	780	793	774	2.87	cps
Holmium	165-1	15858624	15494940	15234654	15529406	2.02	cps
Holmium	165-2	10484326	10560178	10417872	10487459	0.68	cps
Indium	115-1	10934069	10523092	10437383	10631515	2.50	cps
Indium	115-2	4019412	4026872	4012802	4019696	0.18	cps
Iron	56-2	432864447	433428074	436374900	434222474	0.43	cps
Iron	57-2	10939061	10971814	11006102	10972326	0.31	cps
Iron	54-2	23685059	23621970	23467984	23591671	0.47	cps
Krypton	83-1	150	173	177	167	8.72	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV007 Instrumnet Name : P7
Client Sample ID : CCV007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:14:40 DataFile Name : 027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	23396911	23591075	23754553	23580847	0.76	cps
Lead	207-1	20465965	20748800	20834178	20682981	0.93	cps
Lead	208-1	93735635	95160343	95374796	94756925	0.94	cps
Lithium	6-1	1176611	1138866	1126701	1147393	2.27	cps
Magnesium	24-2	86153917	85522880	84767894	85481564	0.81	cps
Manganese	55-2	14996223	15049788	15071193	15039068	0.26	cps
Molybdenum	94-1	17223256	16998116	16814161	17011844	1.20	cps
Molybdenum	95-1	24530896	24296485	24209586	24345656	0.68	cps
Molybdenum	96-1	27214608	26447330	26489953	26717297	1.61	cps
Molybdenum	97-1	15531808	15111316	15278718	15307281	1.38	cps
Molybdenum	98-1	40045450	39655621	39306099	39669057	0.93	cps
Neodymium	150-1	637	667	653	652	2.30	cps
Neodymium	150-2	243	183	250	226	16.28	cps
Nickel	60-2	683086	683239	678765	681697	0.37	cps
Phosphorus	31-2	95522	94905	95505	95311	0.37	cps
Potassium	39-2	55404056	54894926	54877609	55058864	0.54	cps
Rhodium	103-1	9484002	9160718	8944757	9196492	2.95	cps
Rhodium	103-2	5618944	5590083	5535886	5581638	0.76	cps
Scandium	45-1	5300347	4972349	4901705	5058134	4.21	cps
Scandium	45-2	503921	500005	497261	500396	0.67	cps
Selenium	82-1	68405	67350	67276	67677	0.93	cps
Selenium	77-2	7939	7795	8436	8057	4.17	cps
Selenium	78-2	26821	27101	27021	26981	0.54	cps
Silicon	28-1	43634793	41877454	41679379	42397208	2.54	cps
Silver	107-1	6053386	5937843	5949138	5980122	1.07	cps
Silver	109-1	5754857	5744286	5628842	5709328	1.22	cps
Sodium	23-2	137888975	138176485	137723368	137929609	0.17	cps
Strontium	86-1	1531532	1507233	1501446	1513403	1.05	cps
Strontium	88-1	13606773	13205699	13385963	13399478	1.50	cps
Sulfur	34-1	451823	430622	423885	435443	3.35	cps
Terbium	159-1	15786105	15653878	15519998	15653327	0.85	cps
Terbium	159-2	10151729	10114081	10112428	10126079	0.22	cps
Thallium	203-1	5863007	5861945	5862716	5862556	0.01	cps
Thallium	205-1	13972752	13938449	14179347	14030183	0.93	cps
Tin	118-1	4200293	4199106	4265627	4221675	0.90	cps
Titanium	47-1	5357983	5220086	5113373	5230481	2.34	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCV007 Instrumnet Name : P7
Client Sample ID : CCV007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:14:40 DataFile Name : 027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19873706	20636507	20405794	20305336	1.93	cps
Vanadium	51-2	1670118	1718973	1688916	1692669	1.46	cps
Yttrium	89-1	16621649	15944889	15736174	16100904	2.87	cps
Yttrium	89-2	4710642	4704268	4633599	4682836	0.91	cps
Zinc	66-2	3382754	3384078	3387020	3384617	0.06	cps
Zirconium	90-1	8590817	8321998	8260157	8390990	2.10	cps
Zirconium	91-1	1891246	1868456	1867101	1875601	0.72	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB007 Instrumnet Name : P7
Client Sample ID : CCB007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:17:23 DataFile Name : 028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1570	1257	1033	1287	20.95	cps
Antimony	121-1	2840	2340	2217	2466	13.39	cps
Arsenic	75-2	50	23	40	38	35.67	cps
Barium	135-1	2084	1703	1433	1740	18.77	cps
Barium	137-1	3847	2897	2324	3023	25.46	cps
Beryllium	9-1	317	223	167	236	32.15	cps
Bismuth	209-1	10626337	10488353	10652206	10588965	0.83	cps
Bismuth	209-2	8041923	7900651	7893908	7945494	1.05	cps
Bromine	81-1	13493	13606	14070	13723	2.23	cps
Bromine	81-2	143	147	147	146	1.32	cps
Cadmium	108-1	60	67	50	59	14.25	cps
Cadmium	106-1	8793	8339	8676	8603	2.74	cps
Cadmium	111-1	6570	6147	6415	6377	3.35	cps
Calcium	43-1	2000	1673	1533	1736	13.80	cps
Calcium	44-1	36655	32071	26741	31822	15.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1170	983	1000	1051	9.83	cps
Cobalt	59-2	563	477	350	463	23.16	cps
Copper	63-2	5258	4467	4367	4697	10.38	cps
Dysprosium	156-1	7	7	10	8	24.71	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	80	43	93	72	35.85	cps
Erbium	164-2	47	27	37	37	27.27	cps
Gadolinium	160-1	60	63	80	68	15.81	cps
Gadolinium	160-2	530	567	540	546	3.47	cps
Holmium	165-1	15959963	15532113	15735648	15742574	1.36	cps
Holmium	165-2	10747548	10798179	10665139	10736955	0.63	cps
Indium	115-1	11270887	11404458	11333103	11336149	0.59	cps
Indium	115-2	4417184	4358544	4324307	4366679	1.08	cps
Iron	56-2	86383	76373	67293	76683	12.45	cps
Iron	57-2	2594	2477	2304	2458	5.94	cps
Iron	54-2	5728	5354	4654	5245	10.39	cps
Krypton	83-1	110	157	170	146	21.65	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB007 Instrumnet Name : P7
Client Sample ID : CCB007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:17:23 DataFile Name : 028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9694	8266	6722	8227	18.07	cps
Lead	207-1	8730	7052	5805	7195	20.40	cps
Lead	208-1	39449	32255	26510	32738	19.80	cps
Lithium	6-1	1185508	1174672	1150447	1170209	1.53	cps
Magnesium	24-2	13296	11394	9570	11420	16.32	cps
Manganese	55-2	2360	2180	1777	2106	14.19	cps
Molybdenum	94-1	6065	4958	4441	5154	16.10	cps
Molybdenum	95-1	8112	6878	5588	6859	18.40	cps
Molybdenum	96-1	9030	7519	6351	7633	17.59	cps
Molybdenum	97-1	5188	4304	3370	4287	21.20	cps
Molybdenum	98-1	13233	10988	9310	11177	17.61	cps
Neodymium	150-1	7	10	3	7	50.03	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	427	367	363	386	9.24	cps
Phosphorus	31-2	317	340	300	319	6.30	cps
Potassium	39-2	55979	55507	53437	54974	2.46	cps
Rhodium	103-1	10004755	10075707	10071058	10050507	0.39	cps
Rhodium	103-2	6298479	6287005	6302883	6296123	0.13	cps
Scandium	45-1	4995360	5081126	5048501	5041663	0.86	cps
Scandium	45-2	510832	514536	516649	514006	0.57	cps
Selenium	82-1	447	420	370	412	9.52	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	393	327	363	361	9.25	cps
Silicon	28-1	585559	602044	604147	597250	1.70	cps
Silver	107-1	2360	2000	1703	2021	16.27	cps
Silver	109-1	2437	1887	1553	1959	22.77	cps
Sodium	23-2	45357	42468	39501	42442	6.90	cps
Strontium	86-1	717	573	580	623	12.98	cps
Strontium	88-1	4477	3524	2954	3652	21.08	cps
Sulfur	34-1	128770	132898	131419	131029	1.60	cps
Terbium	159-1	15952563	16008031	15723559	15894718	0.95	cps
Terbium	159-2	10649338	10405068	10351328	10468578	1.52	cps
Thallium	203-1	2064	1833	1407	1768	18.85	cps
Thallium	205-1	5124	4117	3037	4093	25.50	cps
Tin	118-1	2434	1887	1890	2070	15.20	cps
Titanium	47-1	1727	1510	1123	1453	21.03	cps

LB Number : LB134288 Operator : Jaswal
Lab Sample ID : CCB007 Instrumnet Name : P7
Client Sample ID : CCB007 Dilution Factor : 1
Date & Time Acquired : 2025-01-14 16:17:23 DataFile Name : 028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6081	4931	4207	5073	18.63	cps
Vanadium	51-2	213	263	227	234	11.04	cps
Yttrium	89-1	16115570	16119939	16415103	16216871	1.06	cps
Yttrium	89-2	4830299	4872162	4870565	4857675	0.49	cps
Zinc	66-2	883	753	750	796	9.56	cps
Zirconium	90-1	3867	3184	2797	3283	16.51	cps
Zirconium	91-1	853	677	613	714	17.41	cps

Prep Standard - Chemical Standard Summary

Order ID : P5388

Test : Metals CLP MS FULL

Prepbatch ID : PB165924,

Sequence ID/Qc Batch ID: LB134172, LB134288,

Standard ID :

MP82128, MP83498, MP83619, MP83620, MP83621, MP83622, MP83623, MP83625, MP83626, MP83627, MP83628, MP83629, MP83630, MP83631, MP83632, MP83633, MP83634, MP83635, MP83636, MP83669, MP83671, MP84042, MP84043, MP84044, MP84045, MP84046, MP84047, MP84048, MP84049, MP84050, MP84051, MP84052, MP84053, MP84054, MP84055, MP84056, MP84057, MP84073,

Chemical ID :

M5288, M5289, M5295, M5298, M5304, M5390, M5476, M5496, M5497, M5498, M5513, M5515, M5516, M5519, M5658, M5698, M5739, M5751, M5768, M5769, M5798, M5799, M5800, M5801, M5802, M5806, M5815, M5816, M5817, M5818, M5819, M5820, M5873, M5874, M5961, M5962, M5976, M5978, M5981, M5983, M5993, M5999, M6021, M6023, M6025, M6028, M6030, M6032, M6033, M6040, M6055, M6121, M6126, M6127, M6128, W3112,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
641	1:4 HCL	MP82128	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal
								09/03/2024

FROM 1500.00000ml of W3112 + 500.00000ml of M6040 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
169	1:1HNO3	MP83498	12/09/2024	01/16/2025	Janvi Patel	None	None	Sarabjit Jaswal
								12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83619	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIP ETTE_3 (A)	Mohan Bera 12/17/2024

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3947	S7(SFAM,6020,200.8)	MP83620	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIP ETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.10000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M5390 + 4.00000ml of M6025 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 832.50000ml of W3112 + 9.00000ml of M5698 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M5976 + 9.00000ml of M5978 + 9.90000ml of M5498 + 9.90000ml of M5769 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3948	S6(SFAM,6020,200.8)	MP83621	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP83620 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3949	S5(SFAM,6020,200.8)	MP83622	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP83620 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3954	S4(SFAM,6020,200.8)	MP83623	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP83620 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3951	S3(SFAM, 6020,200.8)	MP83625	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP83621 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3955	S2CONC(SFAM,6020,200.8)	MP83626	12/13/2024	01/10/2025	Sarabjit Jaswal	None	None	Mohan Bera
								12/17/2024

FROM 0.05000ml of M5476 + 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6121 + 226.25000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3956	S2(SFAM,6020,200.8)	MP83627	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera
								12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP83626 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3957	S1(SFAM,6020,200.8)	MP83628	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP83627 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3958	ICV(SFAM)	MP83629	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 2.00000ml of M5295 + 98.00000ml of MP83619 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1142	ICSA ICPMS	MP83630	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 10.00000ml of M5873 + 90.00000ml of MP83619 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1143	ICSAB ICPMS	MP83631	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP83619 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3961	CCV	MP83632	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5516 + 24.95000ml of M5769 + 25.00000ml of M5304 + 4.50000ml of M5698 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M5976 + 4.50000ml of M5978 + 4.95000ml of M6033 + 5.00000ml of M6121 + 826.10000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3962	MG 10PPM FOR TUNE	MP83633	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.01000ml of M5769 + 9.99000ml of MP83619 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3894	TUNE 200PPB	MP83634	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 2.00000ml of M6055 + 2.00000ml of MP83633 + 96.00000ml of MP83619 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3903	ISS 3PPM	MP83635	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP83619 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2902	S8 ICPMS	MP83636	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024
<u>FROM</u> 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5516 + 5.00000ml of M5769 + 79.00000ml of MP83619 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3964	CONC.LCSS SPIKE	MP83669	12/13/2024	01/17/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.25000ml of M5476 + 0.25000ml of M5698 + 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M5976 + 1.25000ml of M5978 + 1.25000ml of M6021 + 10.00000ml of M6126 + 12.50000ml of M5519 + 150.00000ml of W3112 + 2.50000ml of M5390 + 2.50000ml of M5515 + 2.50000ml of M5818 + 5.00000ml of M5498 + 5.00000ml of M5768 + 5.00000ml of M5806 + 5.00000ml of M6121 + 6.25000ml of M5816 + 6.25000ml of M5820 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
870	ICPMS SPIKE SOL.B	MP83671	12/13/2024	01/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP83619 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84042	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3947	S7(SFAM,6020,200.8)	MP84043	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M5496 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5298 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M6128 + 9.90000ml of M5497 + 9.90000ml of M5806 + 9.90000ml of M6127 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3948	S6(SFAM,6020,200.8)	MP84044	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84043 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3949	S5(SFAM,6020,200.8)	MP84045	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84043 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3954	S4(SFAM,6020,200.8)	MP84046	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84043 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3951	S3(SFAM, 6020,200.8)	MP84047	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84044 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3955	S2CONC(SFAM,6020,200.8)	MP84048	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5298 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5806 + 2.50000ml of M6121 + 2.50000ml of M6127 + 225.25000ml of W3112 + 5.00000ml of M6126
= Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3956	S2(SFAM,6020,200.8)	MP84049	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84048 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3957	S1(SFAM,6020,200.8)	MP84050	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84049 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3958	ICV(SFAM)	MP84051	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M5295 + 98.00000ml of MP84042 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3961	CCV	MP84052	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5298 + 12.45000ml of M5519 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M5806 + 24.95000ml of M6127 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M6128 + 4.95000ml of M5496 + 5.00000ml of M5976 + 5.00000ml of M6121 + 830.60000ml of W3112 = Final Quantity: 1000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1142	ICSA ICPMS	MP84053	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84042 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1143	ICSAB ICPMS	MP84054	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84042 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3962	MG 10PPM FOR TUNE	MP84055	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84042 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3894	TUNE 200PPB	MP84056	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84055 + 96.00000ml of MP84042 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3903	ISS 3PPM	MP84057	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84042 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2902	S8 ICPMS	MP84073	01/14/2025	01/31/2025	Janvi Patel	None	None	Mohan Bera 01/16/2025

FROM 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5298 + 5.00000ml of M5497 + 5.00000ml of M5806 + 5.00000ml of M6127 + 79.00000ml of MP84042 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / TI, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 / jaswal	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

R: 02/22/24 M5991 M5992 M5993 M5994 M5995

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CLPP-SPK-4
Lot Number: V2-MEB742036
Matrix: 3% (v/v) HNO₃
Value / Analyte(s):
100 µg/mL ea:
Antimony,
50 µg/mL ea:
Cadmium, Thallium,
40 µg/mL ea:
Arsenic,
20 µg/mL ea:
Lead,
10 µg/mL ea:
Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; Info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 12, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 010924
Description: Barium (Ba)
Solvent: Nitric Acid
Lot #

Expiration Date: 010927
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
2% **40.0** **Nitric Acid**
(mL)

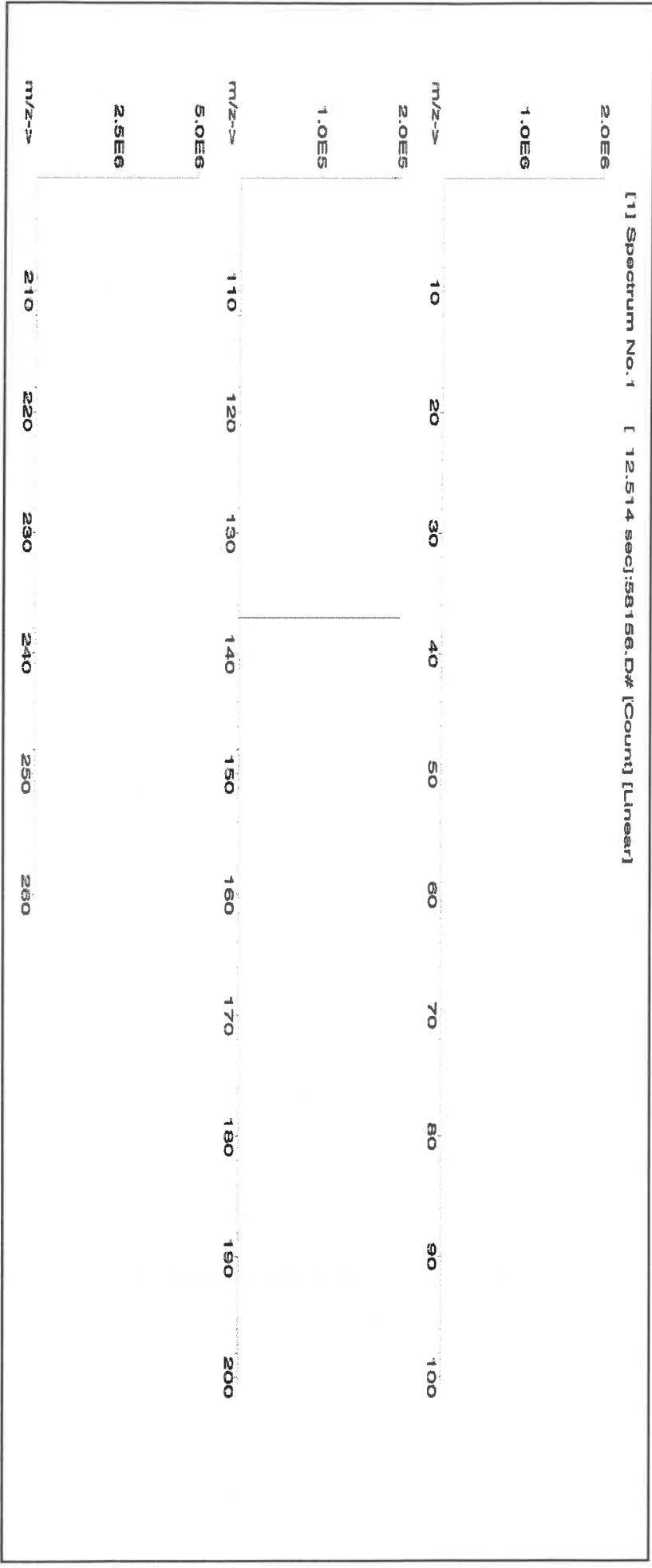
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 **5E-05** **Balance Uncertainty**
0.058 **Flask Uncertainty**

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
	010924
<i>Pedro L. Renteria</i>	
Reviewed By:	Pedro L. Renteria
	010924

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
Barium nitrate (Ba)	IN023 BA0022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	1000.1	2.0

1. Barium nitrate (Ba) IN023 BA0022019A1 1000 99.999 0.10 52.3 3.82417 3.82441 1000.1 2.0 10022-31-8 0.5 mg/mL 3 0.5 mg/mL 3 3104a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57048
070124
Cadmium (Cd)

Solvent: 24002546 Nitric Acid

R: 815/24

Lot #

2% 40.0 Nitric Acid (mL)

Expiration Date: 070127

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB

SE-05 Balance Uncertainty

Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

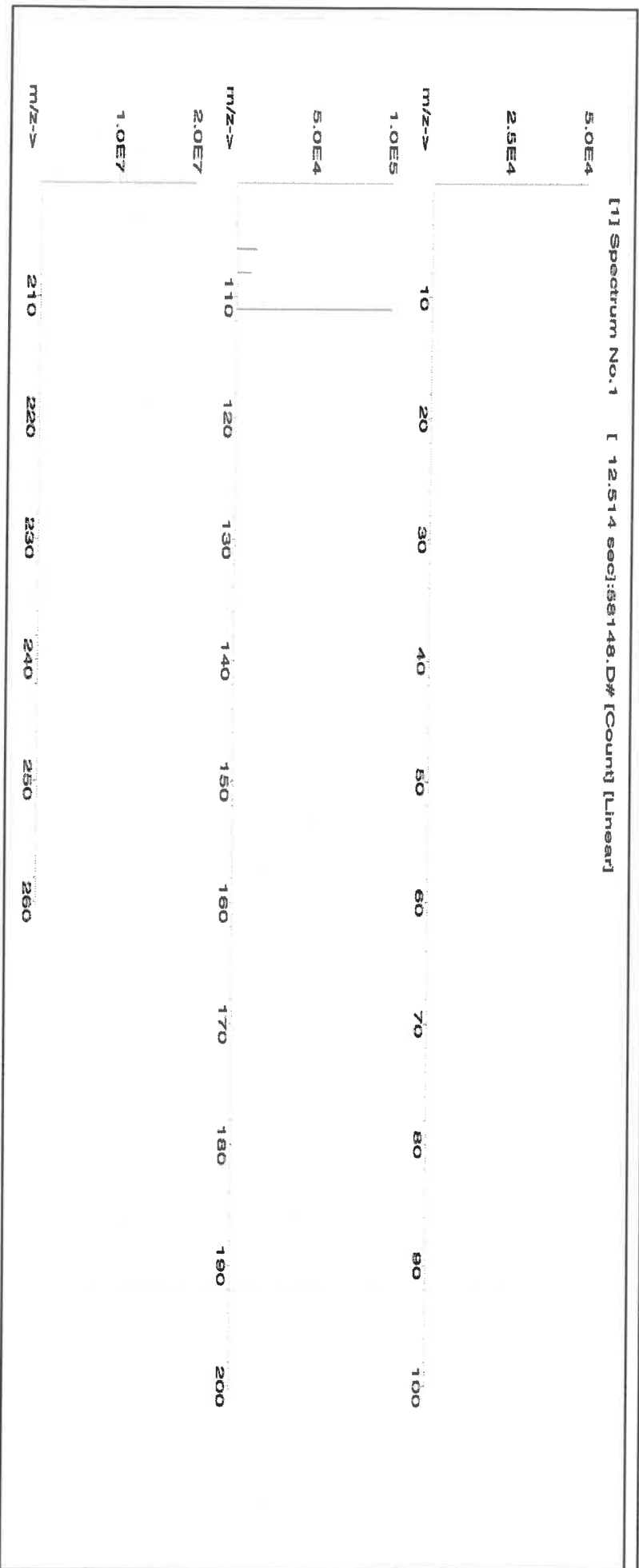
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	070124
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	070124

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Cadmium nitrate tetrahydrate (Cd)	IN024 CDM09221A1	1000	99.999	0.10	36.5	5.4797	5.4804	1000.1	2.0	10022-68-1	0.01 mg/m3	or-rat 60.2mg/kg	3108
--------------------------------------	------------------	------	--------	------	------	--------	--------	--------	-----	------------	------------	------------------	------

[1] Spectrum No.1 [12.514 sec]:\$8148.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.2	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Cd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pr	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: 57182 Solvent: 24002546 Nitric Acid
Lot Number: 110923
Description: Lead (Pb)

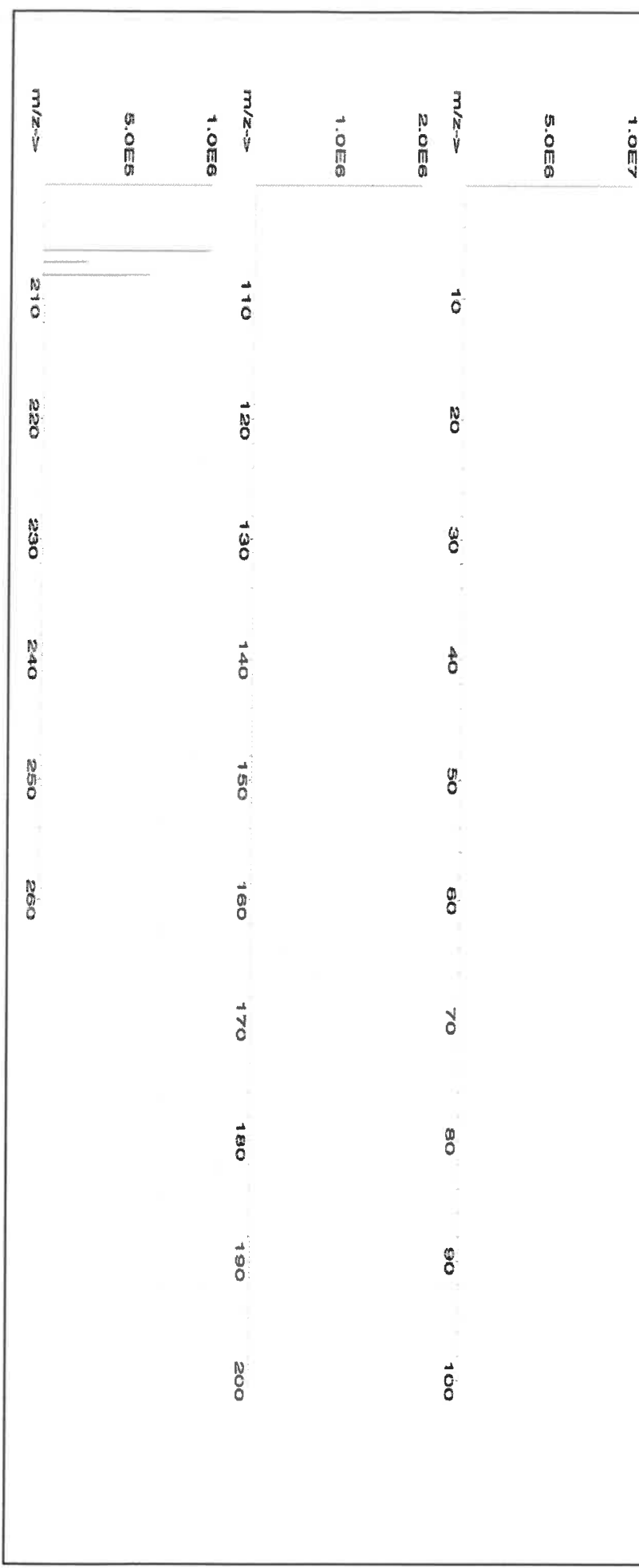
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

Compound	SDS Information									
	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)

1. Lead(II) nitrate (Pb) IN029 PED122016A1 10000 99.999 0.10 62.5 32.0006 32.0040 10001.1 20.0 10099-74-8 0.05 mg/m3 In-house rat 83 mg/kg 3128

[1] Spectrum No.1 [17.284 sec]:58182.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

Physical Characterization:

(T)= Target analyte

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

M5288 R: 07/21/2022

59

Lot #

Solvent: 20510011 Nitric Acid

Part Number: **58119**
Lot Number: **071122**
Description: **Potassium (K)**

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB

Weight shown below was diluted to (mL):

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

2000.02

<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
	071122
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	071122

Compound

Lot Number

Nominal Conc. (µg/mL)

Purity (%)

Uncertainty Purity (%)

Assay (%)

Target Weight (g)

Actual Weight (g)

Actual Conc. (µg/mL)

Expanded Uncertainty +/- (µg/mL)

CAS#

OSHA PEL (TWA)

SDS Information

(Solvent Safety Info. On Attached pg.)

LD50

NIST SRM

1. Potassium nitrate (K)

IN034 KD022021A1

10000

99.999

0.10

37.6

53.1925

53.1934

10000.2

20.0

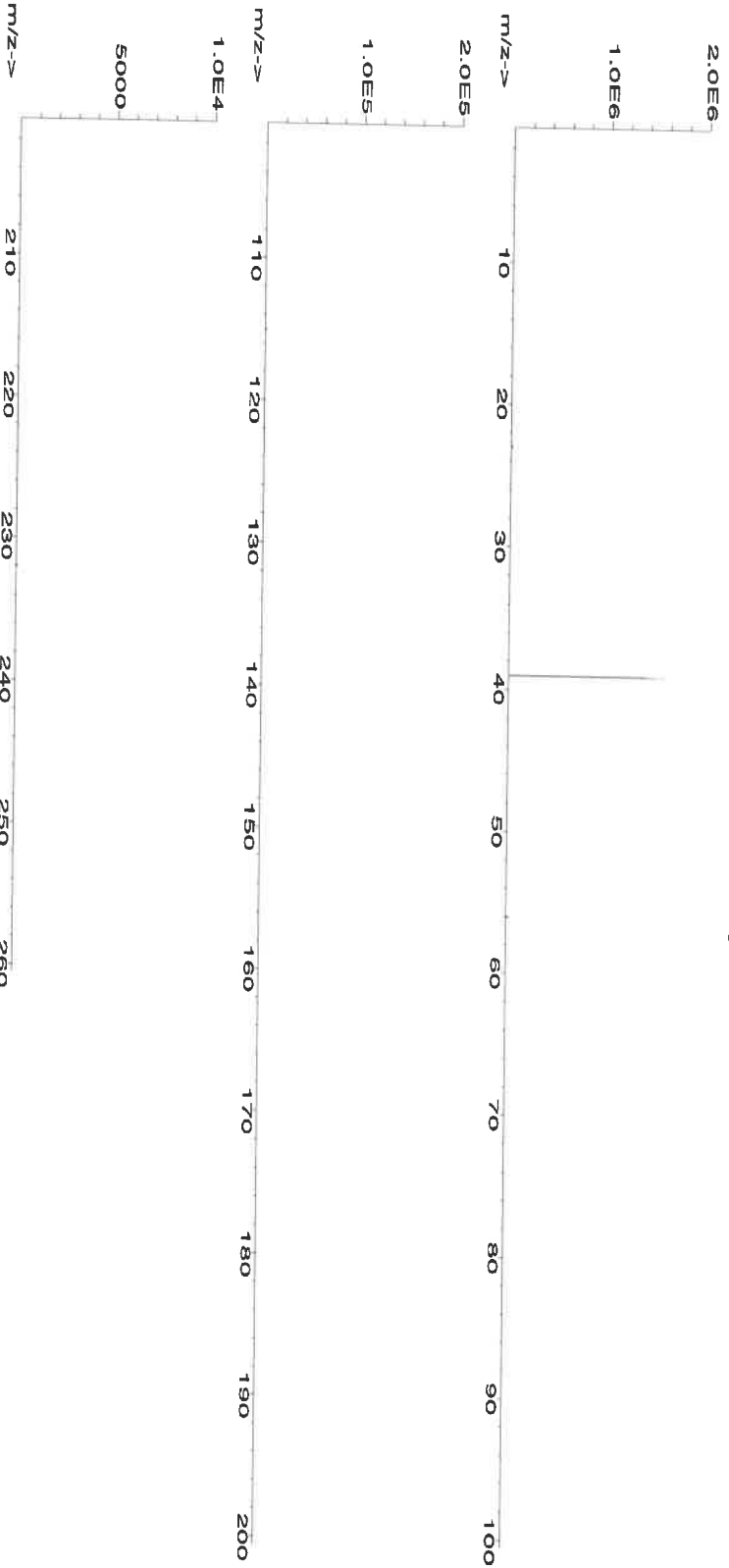
7757-79-1

5 mg/m3

or: rat 3015 mg/kg

3141a

[1] Spectrum No. 1 [35.763 sec]:58119.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

Physical Characterization:

(T) = Target analyte

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5289 R: 07/12/22
Certified Reference Material CRM

34



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Lot #
Solvent: 20370011 Nitric Acid

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

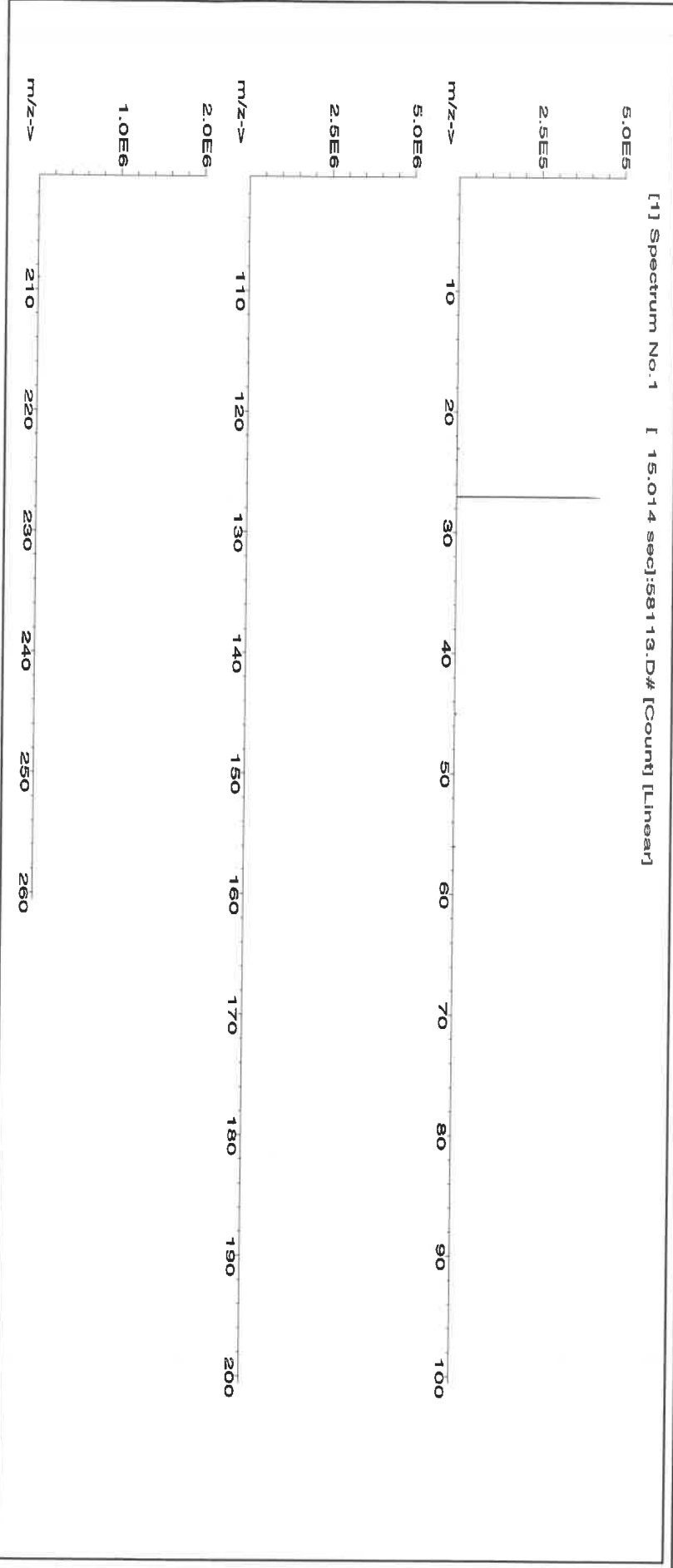
2% 40.0 Nitric Acid
(mL)

Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry
070622	
Reviewed By:	Pedro L. Renteria
070622	

SDS Information														
Expanded														
(Solvent, Safety Info. On Attached pg.)														
CAS#														
OSHA PEL (TWA)														
LD50														
SRM														
NIST														
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1. Aluminum nitrate nonahydrate (Al) IN022 ALD012021A1 10000 99.999 0.10 7.10 281.6956 281.6977 10000.1 20.0 7784-27-2 2 mg/m3 or-tal 3671 mg/kg 3101a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ti	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 4/20/21

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M15292
M15293
M15294
M15295

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

- ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.
- ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.
- ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58126
020422
Iron (Fe)

Lot #

Solvent: 20370011 Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration ($\mu\text{g/mL}$):
NIST Test Number:

020425
Ambient (20 °C)
10000
6UTB
5E-05 Balance Uncertainty
0.058 Flask Uncertainty
3000.41
Weight shown below was diluted to (mL):

M15298

5.0%
150.0
(mL)
Nitric Acid

Formulated By: Giovanni Esposito
020422

Reviewed By: *Pedro L. Rentas*
020422

Reviewed By: Pedro L. Rentas
020422

SDS Information

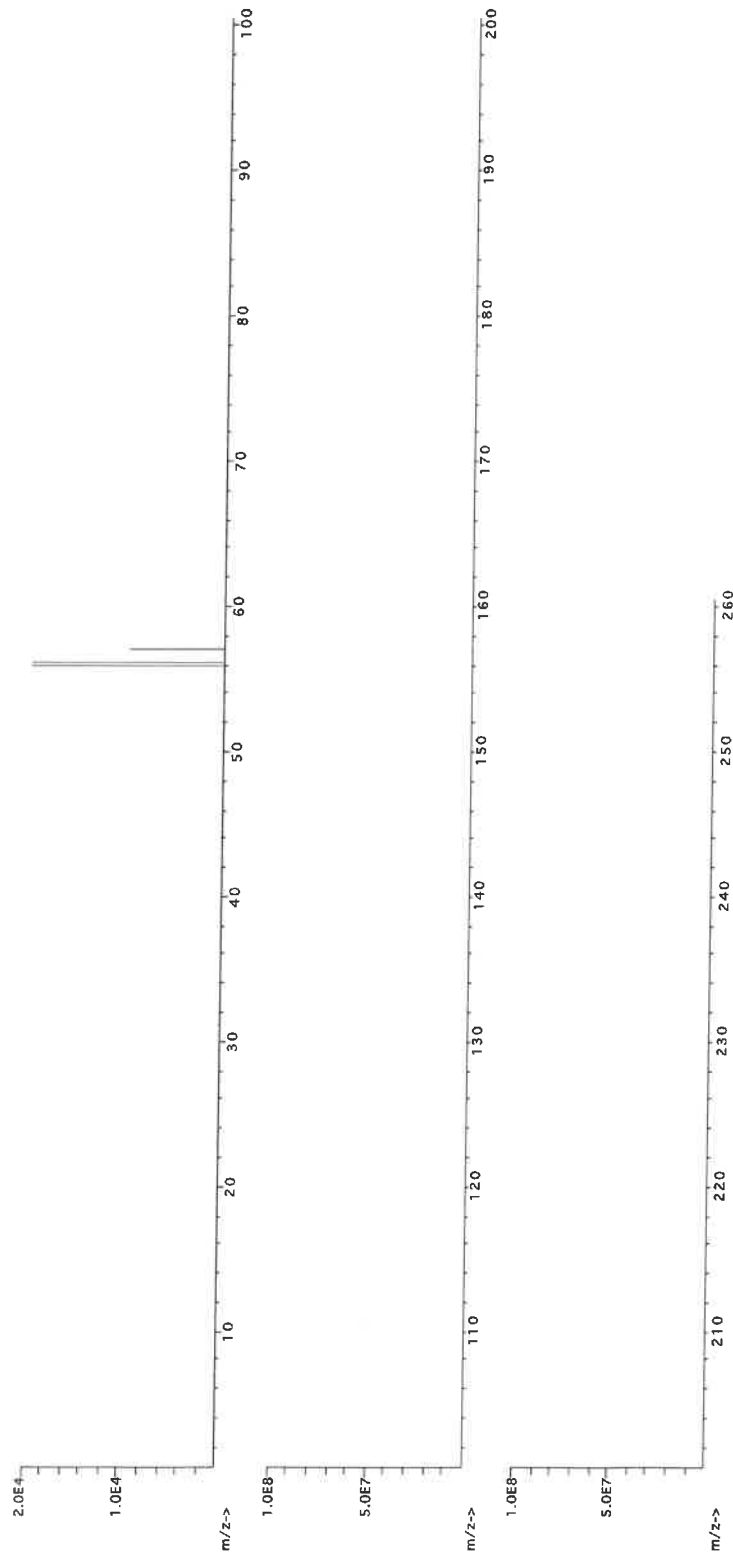
Expanded
Uncertainty
+/- ($\mu\text{g/mL}$)
CAS#
OSHA PEL (TWA)
LD50

(Solvent Safety Info. On Attached pg.)
NIST
SRM

Actual
Weight (g)
Conc. ($\mu\text{g/mL}$)
Actual
Conc. ($\mu\text{g/mL}$)
10001.5
30.0090
10001.5
30.0090
20.0
7782-61-8
5 mg/m3
or-hat 7500mg/kg 3126a

1. Iron(III) nitrate nonahydrate (Fe) IN346 221035107 10000 99.999 0.10 100.0 30.0044 30.0090 10001.5 20.0 7782-61-8 5 mg/m3 or-hat 7500mg/kg 3126a

[1] Spectrum No.1 [30.763 sec]:58126.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.10	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.2	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.02	La	<0.10	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: 6020CAL-1
Lot Number: S2-MEB711244
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s): 20 µg/mL ea:
Silver, Aluminum,
Arsenic, Barium,
Beryllium, Calcium,
Cadmium, Cobalt,
Chromium, Copper,
Iron, Potassium,
Magnesium, Manganese,
Sodium, Nickel,
Lead, Antimony,
Selenium, Thallium,
Vanadium, Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	20.01 ± 0.08 µg/mL	Antimony, Sb	20.01 ± 0.12 µg/mL
Arsenic, As	20.01 ± 0.18 µg/mL	Barium, Ba	20.01 ± 0.11 µg/mL
Beryllium, Be	20.01 ± 0.14 µg/mL	Cadmium, Cd	20.01 ± 0.11 µg/mL
Calcium, Ca	20.01 ± 0.10 µg/mL	Chromium, Cr	20.01 ± 0.16 µg/mL
Cobalt, Co	20.01 ± 0.11 µg/mL	Copper, Cu	20.01 ± 0.10 µg/mL
Iron, Fe	20.01 ± 0.09 µg/mL	Lead, Pb	20.01 ± 0.11 µg/mL
Magnesium, Mg	19.99 ± 0.10 µg/mL	Manganese, Mn	20.01 ± 0.10 µg/mL
Nickel, Ni	20.01 ± 0.11 µg/mL	Potassium, K	20.01 ± 0.10 µg/mL
Selenium, Se	20.02 ± 0.14 µg/mL	Silver, Ag	20.02 ± 0.09 µg/mL
Sodium, Na	20.01 ± 0.10 µg/mL	Thallium, Tl	20.01 ± 0.13 µg/mL
Vanadium, V	20.01 ± 0.11 µg/mL	Zinc, Zn	20.01 ± 0.11 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2(u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a)(u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





R-09/18/22 **(B1)**

Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

Solvent: 20510011 Nitric Acid

Lot #

Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	072122

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
1. Barium nitrate (Ba)	IN023 BA022019A1	1000	99.899	0.10	52.3	3.82417	3.82426	1000.0	2.0

1. Barium nitrate (Ba) IN023 BA022019A1 1000 99.899 0.10 52.3 3.82417 3.82426 1000.0 2.0 10022-31-8 0.5 mg/m3 or-al 355 mg/kg 31046

[1] Spectrum No. 1 [12.514 sec]:58156.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.02	Tb	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.2	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Th	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02
																W	<0.02
																U	<0.02
																V	<0.02
																Yb	<0.02
																Y	<0.02
																Zn	<0.02
																Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.02	Er	T	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.02	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

Ben. P. Davis

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57182
061522
Lead (Pb)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

061525
Ambient (20 °C)
10000
6UTB

Weight shown below was diluted to (mL):

2000.02

5E-05 Balance Uncertainty

0.058 Flask Uncertainty

Lot #

Solvent: 20510011 Nitric Acid

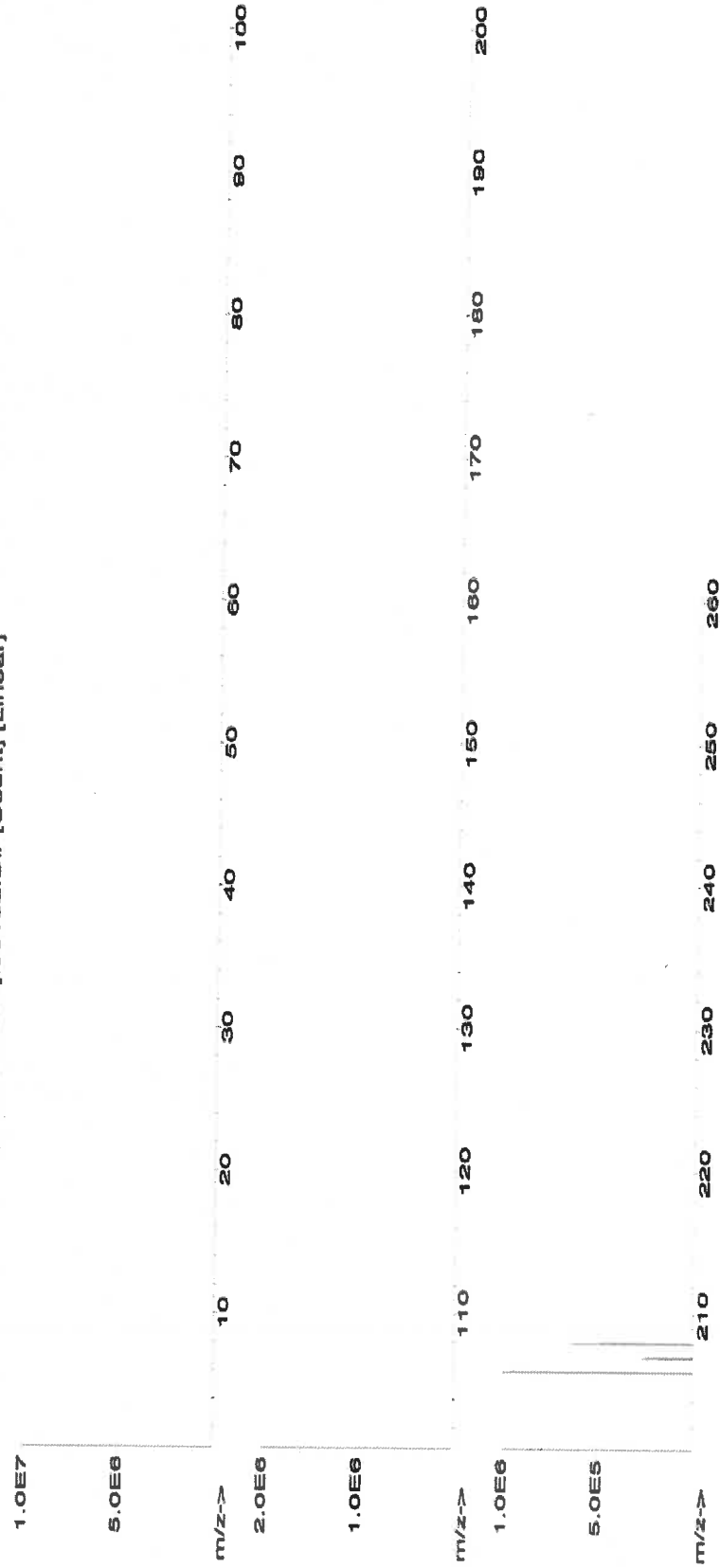
2% 40.0 Nitric Acid
(mL)

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito 061522
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas 061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information		
											(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	NIST SRM

1. Lead(II) nitrate (Pb)	IN029	PBD12201641	10000	99.999	0.10	82.5	32.0006	32.0041	10001.1	20.0	10098-74-8	0.05 mg/m3	inhalation 88 mg/kg 3128
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[1] Spectrum No.1 [17.284 sec]:58182.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pr	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

M5514, M5515
Lot #

R: 03/12/23

Part Number:

Solvent:

Lot Number:

Nitric Acid

Description:

Nitric Acid

Expiration Date:

7.0%

Recommended Storage:

350.0 (mL)

Nominal Concentration (µg/mL):

10000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

5000.1

SE-05 Balance Uncertainty

0.12 Flask Uncertainty

<i>Giovanni Caporale</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Rentas
	092122

SDS Information

Compound

Lot

Nominal

Purity

Uncertainty

Assay

Target

Actual

Actual

Expanded

Uncertainty

CAS#

OSHA PEL (TWA)

LD50

SRM

NIST

1. Iron (Fe)

IN346 2224912-500

10000

99.995

0.10

100.0

50.0034

50.0111

10001.5

20.0

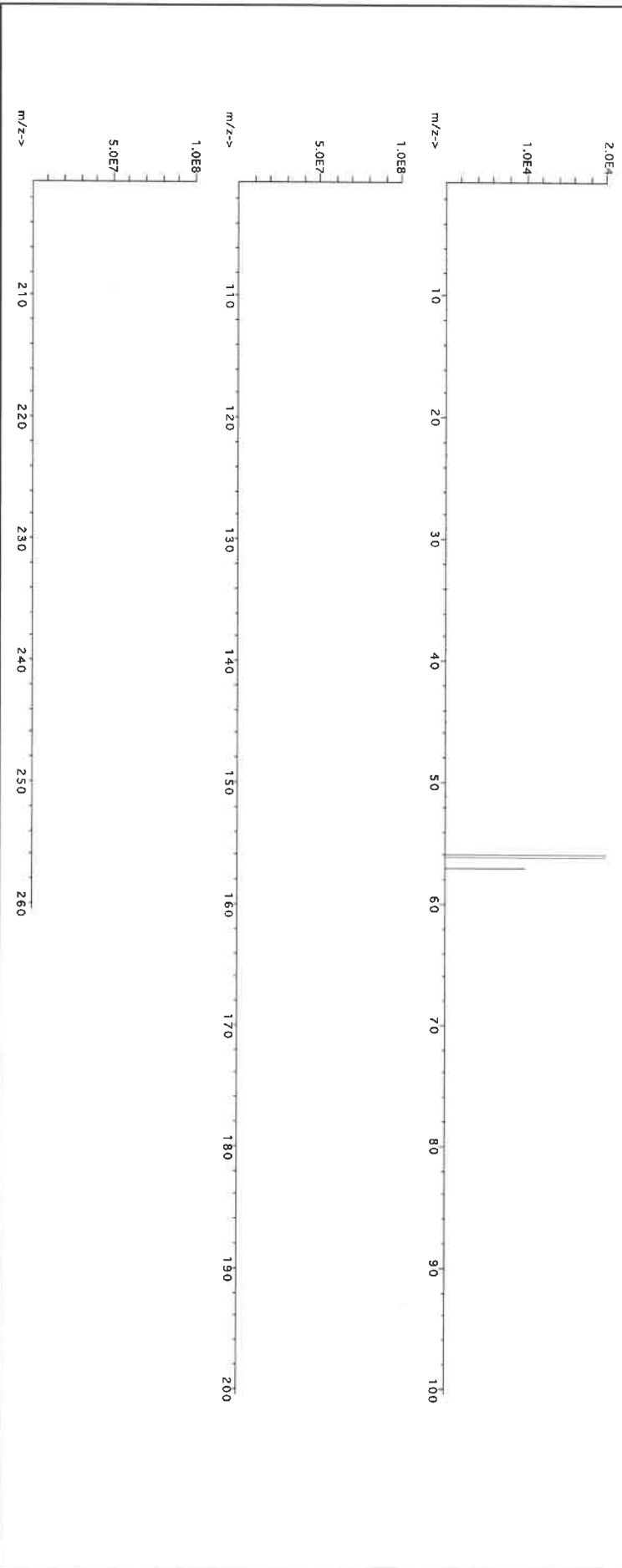
7439-89-6

5 mg/m3

or-hal 7500mg/kg

3126a

[1] Spectrum No.1 [30.763 sec] 58126.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

Ben P. Galt

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM



M586 M587 R:03/17/22

CERTIFIED WEIGHT REPORT:

Part Number: **58111**
Lot Number: **022123**
Description: **Sodium (Na)**

Expiration Date: **022126**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test Number: **6UTB**
Weight shown below was diluted to (mL): **3000.41**

Solvent: **21110221 Nitric Acid**

2% **60.0**
(mL)

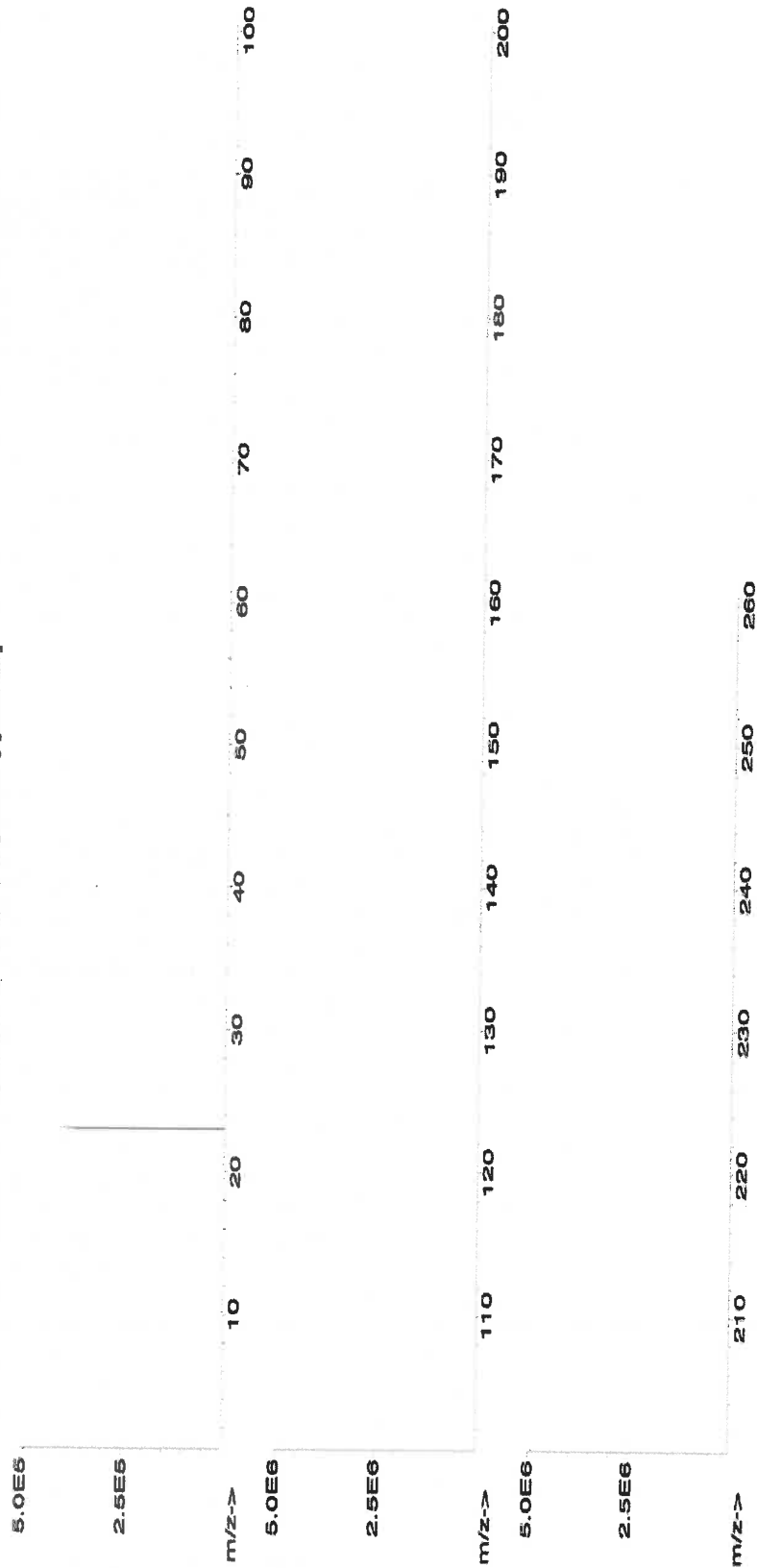
5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Formulated By:	Lawrence Barry 022123
Reviewed By:	Pedro L. Rentas 022123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information		
											(Solvent Safety Info. On Attached pg.)	CAS#	NIST SRM

1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.998 0.10 26.9 111.5406 111.5410 10000.0 20.0 7631-99-4 5 mg/m3 orl-rat 3430 mg/kg 3152a

[1] Spectrum No.1 [8.935 sec]:58111.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.02	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number: **58119**
Lot Number: **120822**
Description: **Potassium (K)**

Solvent: 20510011 Nitric Acid

Lot #

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

2% 60.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 3000.4

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

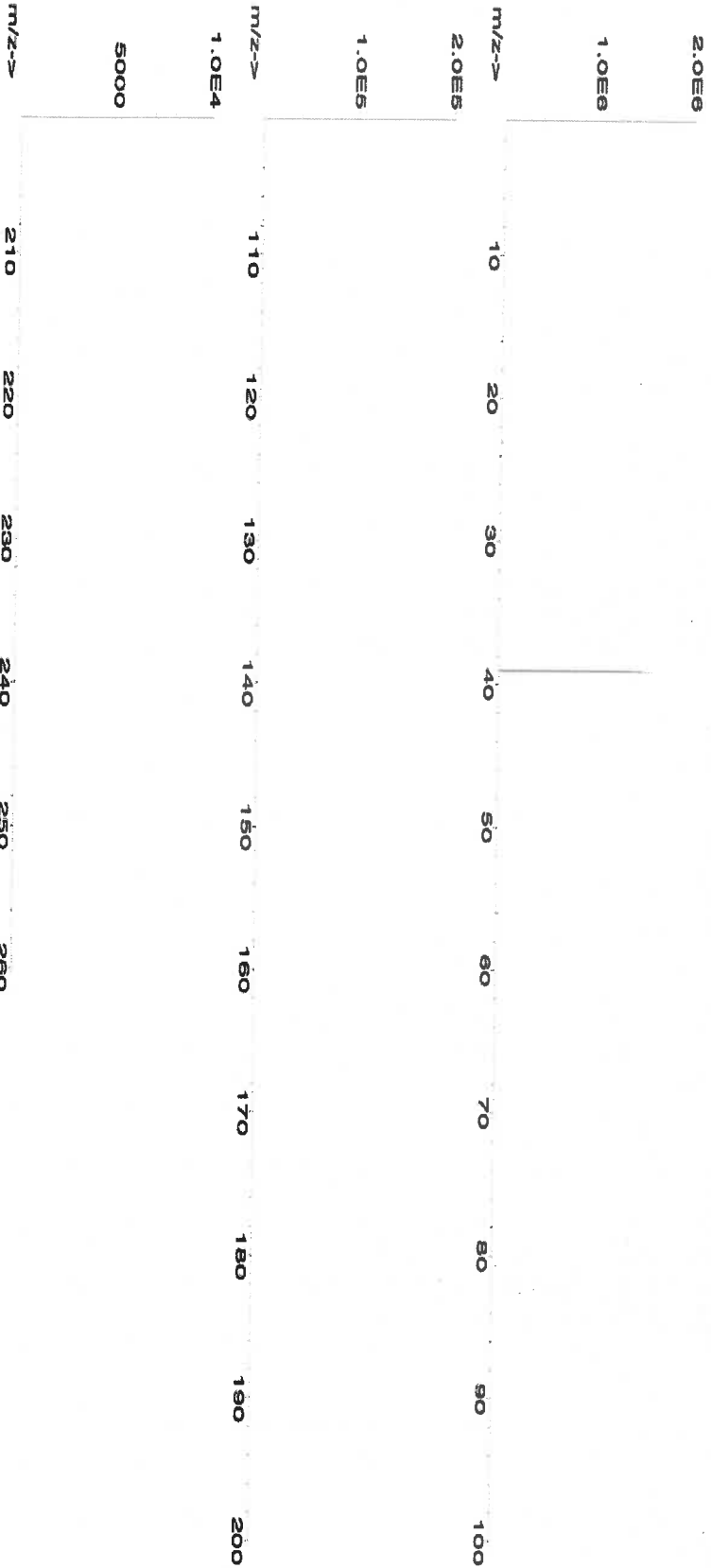
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	120822

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Potassium nitrate (K) IN034 KD022021A1 10000 99.989 0.10 37.6 79.7990 79.8075 10001.1 20.0 7757-79-1 5 mg/m3 crtat 3015 mg/kg 3141a

[1] Spectrum No.1 [35.763 sec]:58119.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	Pb	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02			Nd	<0.02	K		Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 58024
Lot Number: 060523
Description: Chromium (Cr)

Lot # 2110221 **Solvent:** Nitric Acid

Formulated By:	Lawrence Barry
	060523
Reviewed By:	Pedro L. Ruelas
	060523

Expiration Date: 060526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

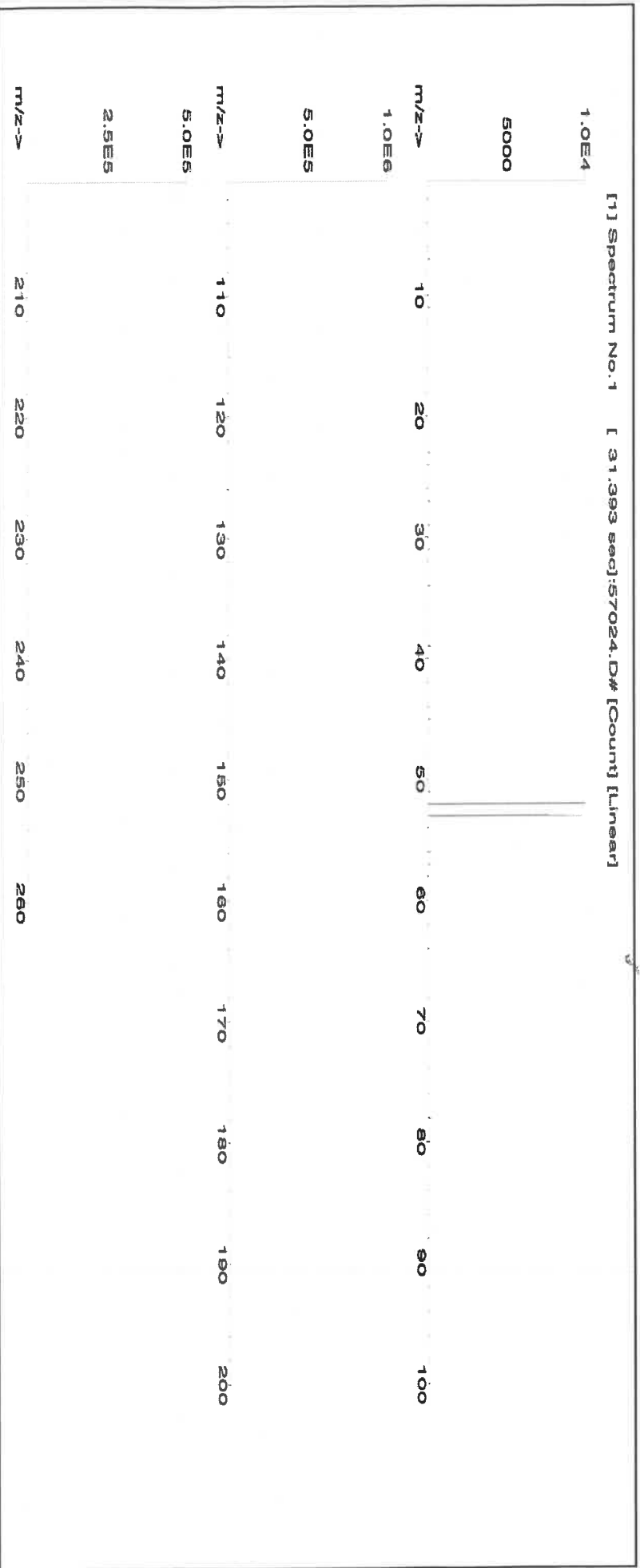
2.0% 40.0 (mL) Nitric Acid

Volume shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

SDS Information

1. Chromium(III) nitrate nonahydrate (Cr) 58124 071122 0.1000 200.0 0.084 1000 10000.1 1000.0 2.2 7789-02-8 0.5 mg(Cr)/m3 or rat 3250 mg/kg 3112a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5648 R:10123123



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58025
102623
Manganese (Mn)

Lot #
Solvent:

24002546
Nitric Acid

Expiration Date:

102626

2.0%

60.0
(mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

5E-05

Balance Uncertainty

Volume shown below was diluted to (mL):

3000.41

0.058

Flask Uncertainty

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Ruelas	102623

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	NIST SRM
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1. Manganese(II) nitrate tetrahydrate (Mn) 58125 071123 0.1000 300.0 0.084 1000 10000.1 1000.0 2.1 20694-39-7 5 mg/m3 or-rel>300mg/kg 3132

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]

5.0E6	10	20	30	40	50	60	70	80	90	100
2.5E6	10	20	30	40	50	60	70	80	90	100
1.0E6	10	20	30	40	50	60	70	80	90	100
5.0E7	10	20	30	40	50	60	70	80	90	100
1.0E6	10	20	30	40	50	60	70	80	90	100
5.0E7	10	20	30	40	50	60	70	80	90	100
m/z-->	210	220	230	240	250	260				



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **58029**
Lot Number: **071723**
Description: **Copper (Cu)**

Lot #: **2110221**
Solvent: **Nitric Acid**

2.0%

40.0 (mL)
Nitric Acid

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Ruelas	071723

Expiration Date: **071726**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6L7B**

Volume shown below was diluted to (mL): **2000.02**
Balance Uncertainty: **5E-05**
Flask Uncertainty: **0.058**

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Copper(II) nitrate trihydrate (Cu) 58129 022723 0.1000 200.0 0.084 1000 10000.5 1000.0 2.2 10031-43-3 1 mg/m3 or rat 794 mg/kg 3114

[1] Spectrum No.1 [33.422 sec]:58029.D# [Count] [Linear]

1.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
5.0E5	m/z-->	110	120	130	140	150	160	170	180	190	200
2.5E7	m/z-->	210	220	230	240	250	260				



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	La	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	Pb	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02			Nd	<0.02	K	<0.2	Sc	<0.02			Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5768 M5769
Certified Reference Material CRM
R: 1/13/24



CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

M5768 M5769

R: 1/13/24

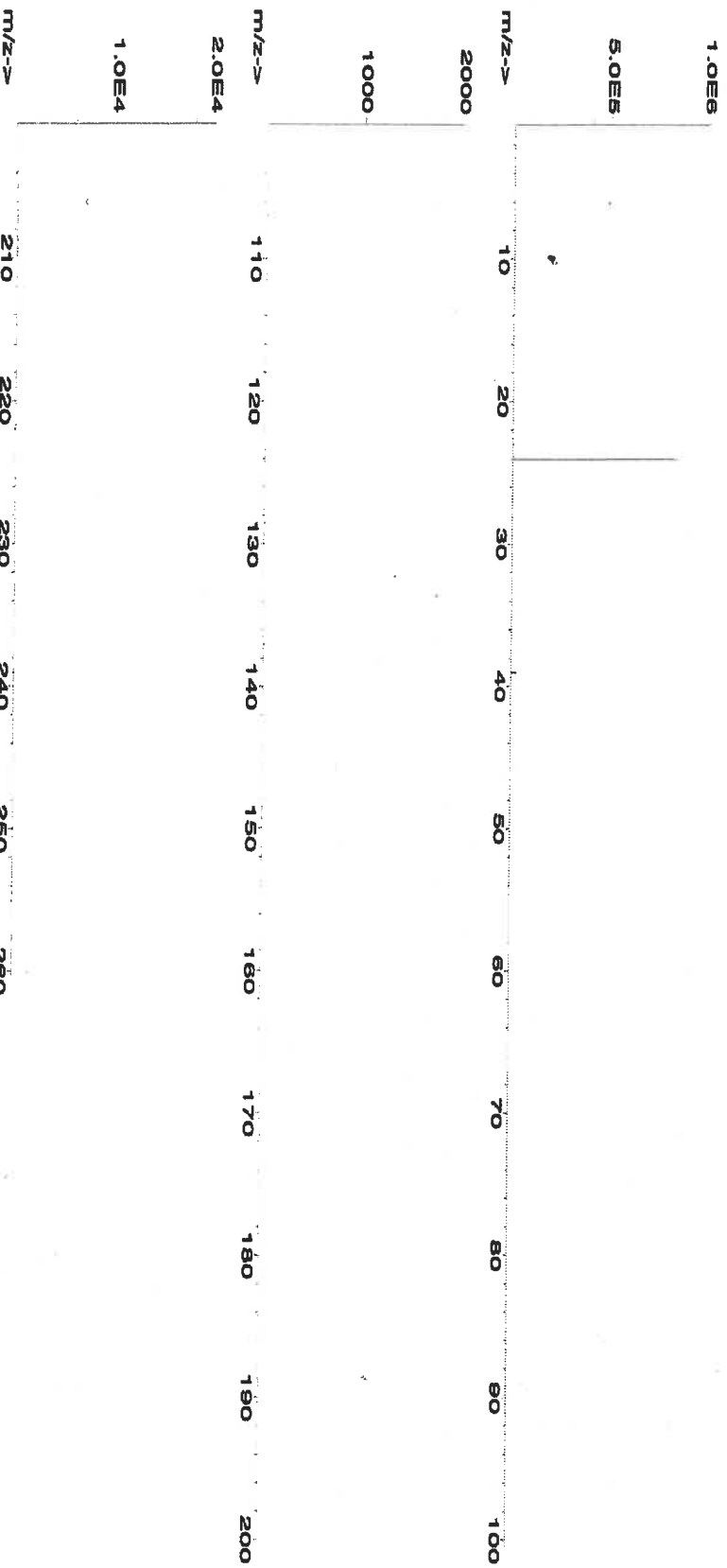
Formulated By: <i>Lawrence Barry</i>		091823
Reviewed By: <i>Pedro L. Rentas</i>		091823

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.923 sec]:58112.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5768 M5769
Certified Reference Material CRM
R: 1/13/24



CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

M5768 M5769

R: 1/13/24

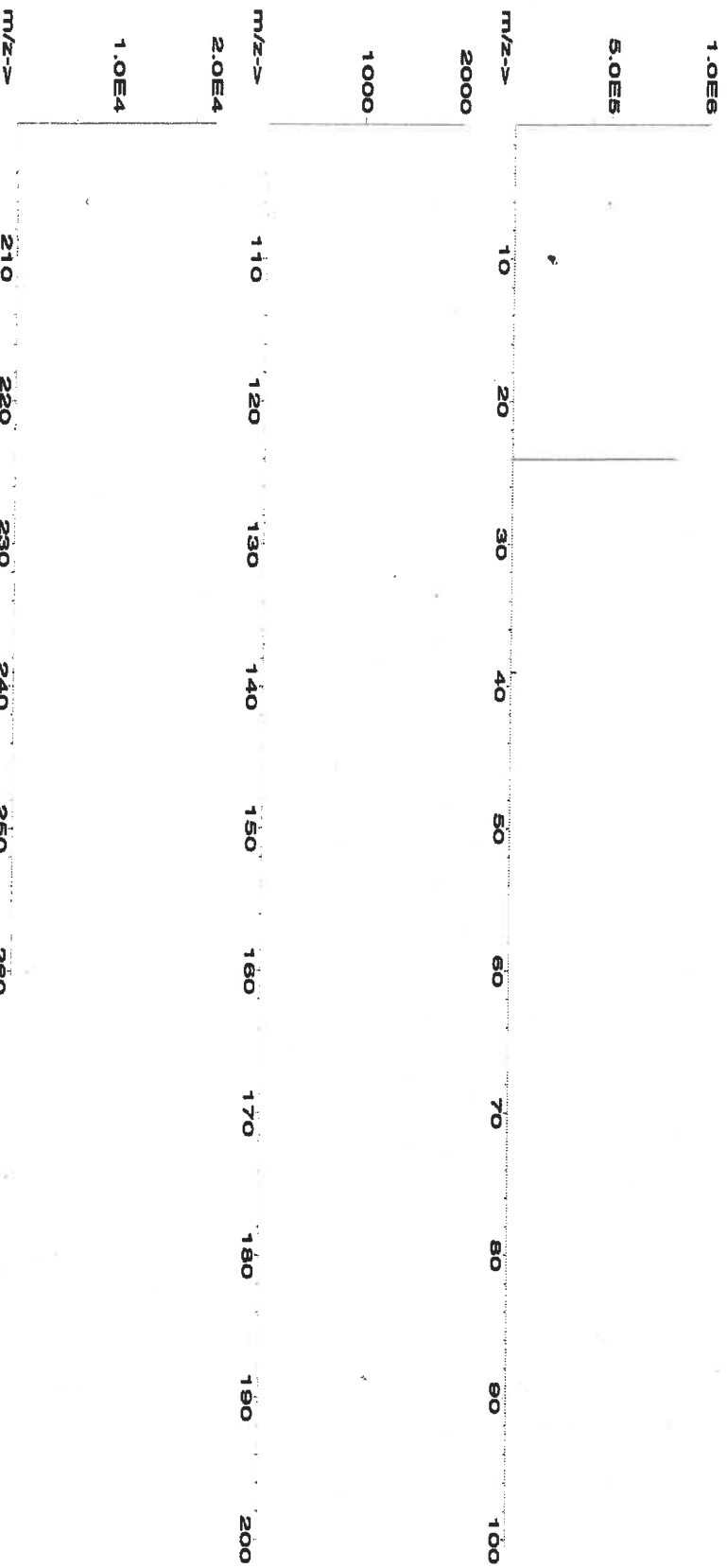
Formulated By: <i>Lawrence Barry</i>		091823
Reviewed By: <i>Pedro L. Rentas</i>		091823

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.923 sec]:58112.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57004
Lot Number: 102523
Description: Beryllium (Be)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date:

102526

2.0%

40.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 2000.02

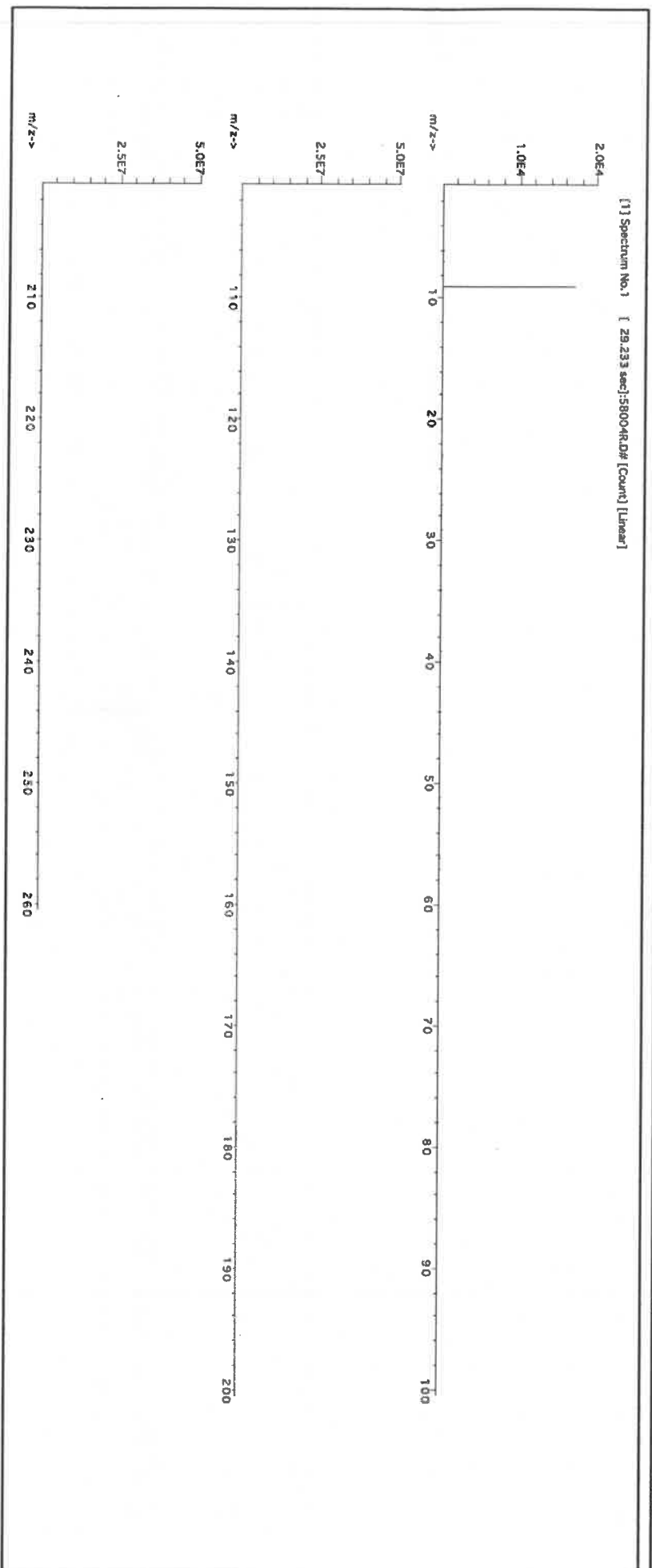
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	1000.0	2.2	13597-99-4	0.2µg/m3	intrinsc-rat 3.16mg/kg	NA
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.02	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.02	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.

* All standard containers are meticulously cleaned prior to use.

* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).

* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

* All Standards should be stored with caps tight and under appropriate laboratory conditions.

* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

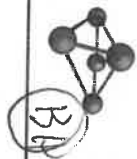
Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid
22D0562008 Hydrochloric acid

Lot #

R-02509124

M599



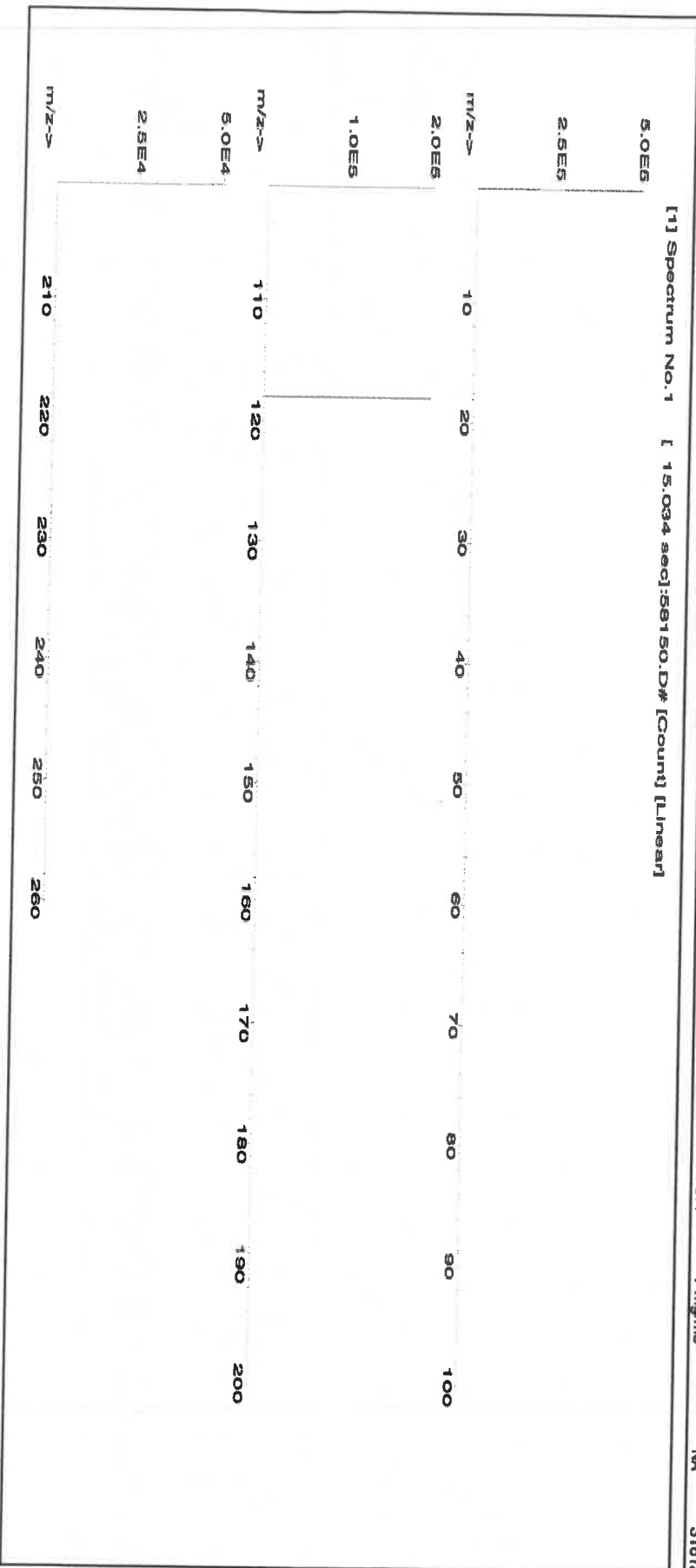
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Benson Chan	
071123	
Reviewed By: Pedro L. Rientas	
071123	

SDS Information														NIST	
Compound		Lot		Nominal		Purity		Uncertainty		Assay		Target			Expanded
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Actual	Actual	Uncertainty	Weight (g)	Conc. (µg/mL)	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)	

1. Ammonium hexafluoroantimonate(V) (Sn) INO10 SMD042023A1 1000 99.999 0.10 44.2 1.13107 1.13286 1001.6 2.0 16919-24-7 7 mg/m3 NA 3161a

[1] Spectrum No. 1 [15.034 sec]:56150.D# [Coun] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ta	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 02/09/24 115800 (54)

CERTIFIED WEIGHT REPORT:

Part Number: 57027
Lot Number: 091923
Description: Cobalt (Co)

Expiration Date: 091926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # 24002546
Solvent: Nitric Acid

2.0% Nitric Acid
40.0 (mL)

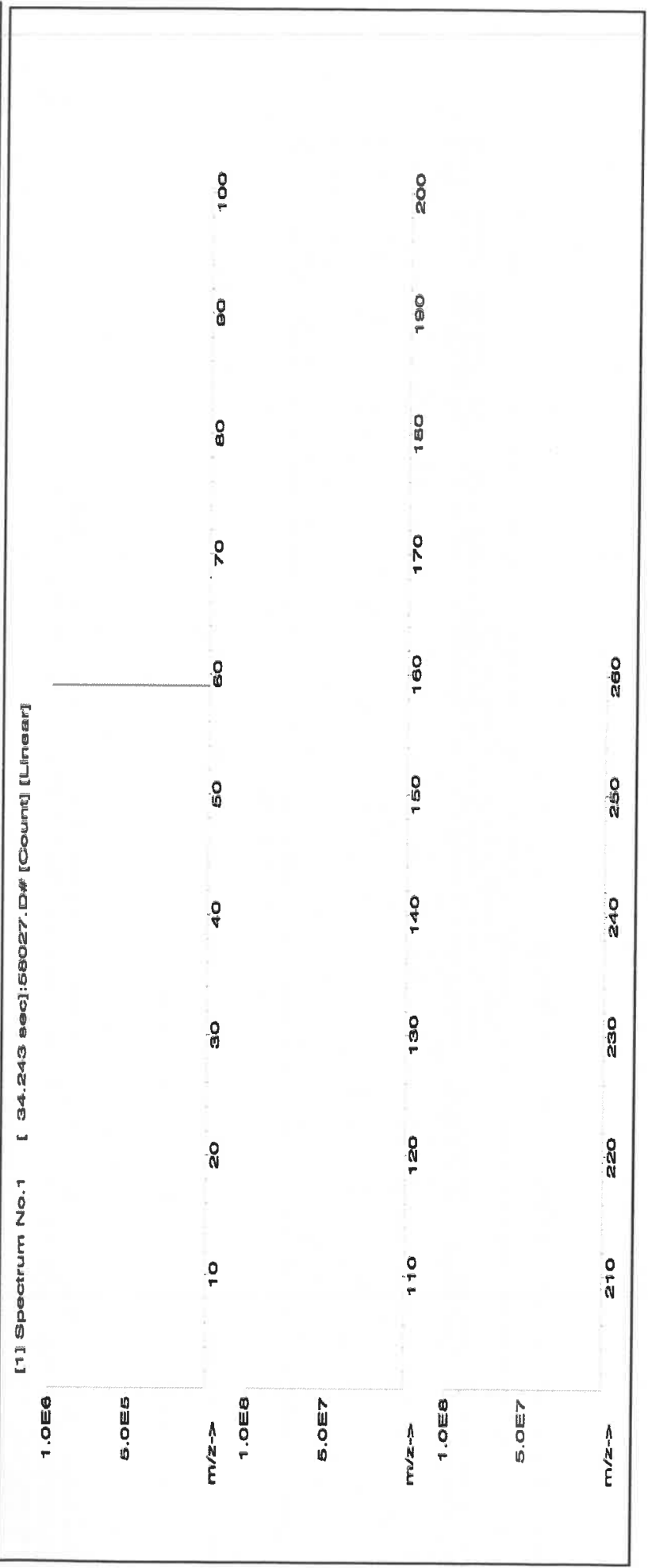
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

SDS Information

Expanded Uncertainty +/- (µg/mL)
Final Conc. (µg/mL)
Initial Conc. (µg/mL)
Nominal Conc. (µg/mL)
Pipette (mL)
Initial Vol. (mL)
Dilution Factor
Part Number
Lot Number

(Solvent Safety Info. On Attached pg.)
CAS#
OSHA PEL (TWA)
LD50
NIST
SRM

1. Cobalt(II) nitrate hexahydrate (Co) 58127 050923 0.1000 200.0 0.084 1000 10000.0 1000.0 2.2 10026-22-9 0.02 mg/m3 orl-rat 691 mg/kg 3113





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.2	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57033
111323
Arsenic (As)

Lot #
Solvent:

24002546
Nitric Acid

Expiration Date:

111326

2.0%
80.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

4000.0

5E-05

Balance Uncertainty
Flask Uncertainty

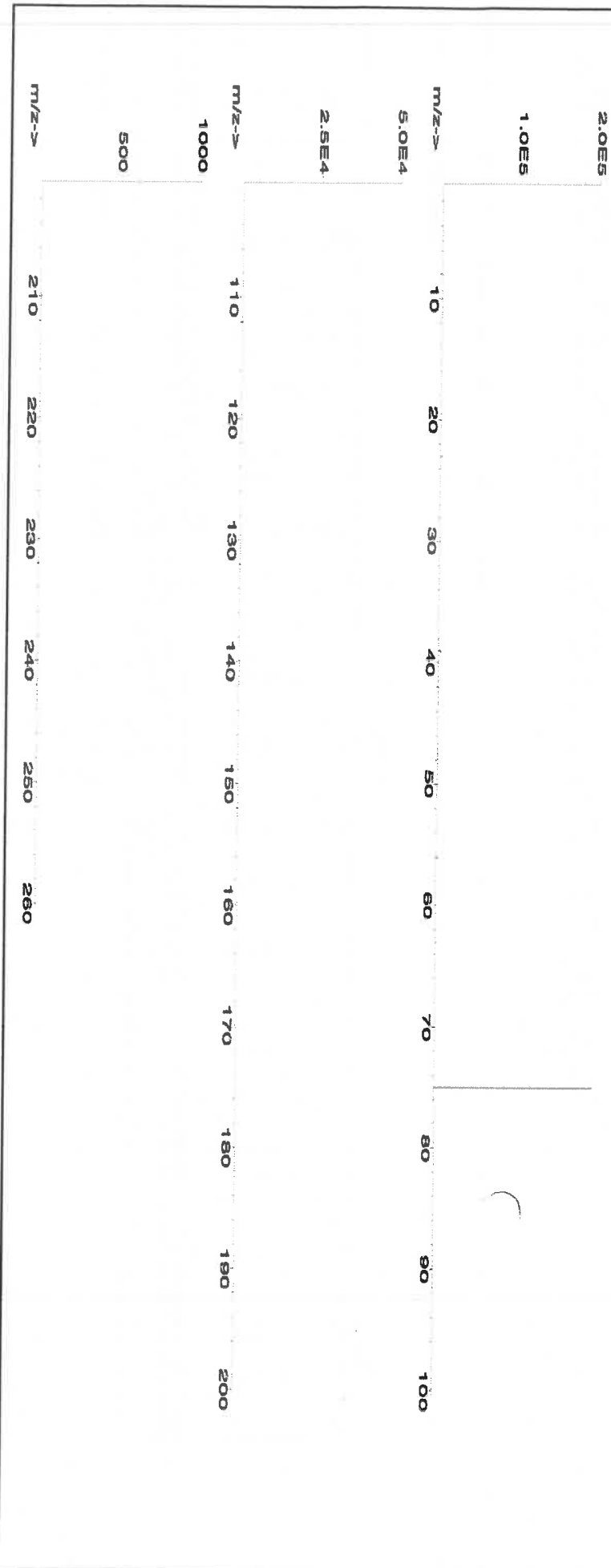
Formulated By:	Lawrence Barry
Reviewed By:	
	Pedro L. Rendas
	111323

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Arsenic (As) 58133 020522 0.1000 400.0 0.084 1000 10001.0 1000.0 2.0 7440-38-2 0.5 mg/m3 or-lat 500 mg/kg 3103a

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tl ₂	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sa	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Solvent: 21110221 Nitric Acid

Lot #

R102109124 M5815

Expiration Date: 041726
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

2% 40.0 (mL) Nitric Acid

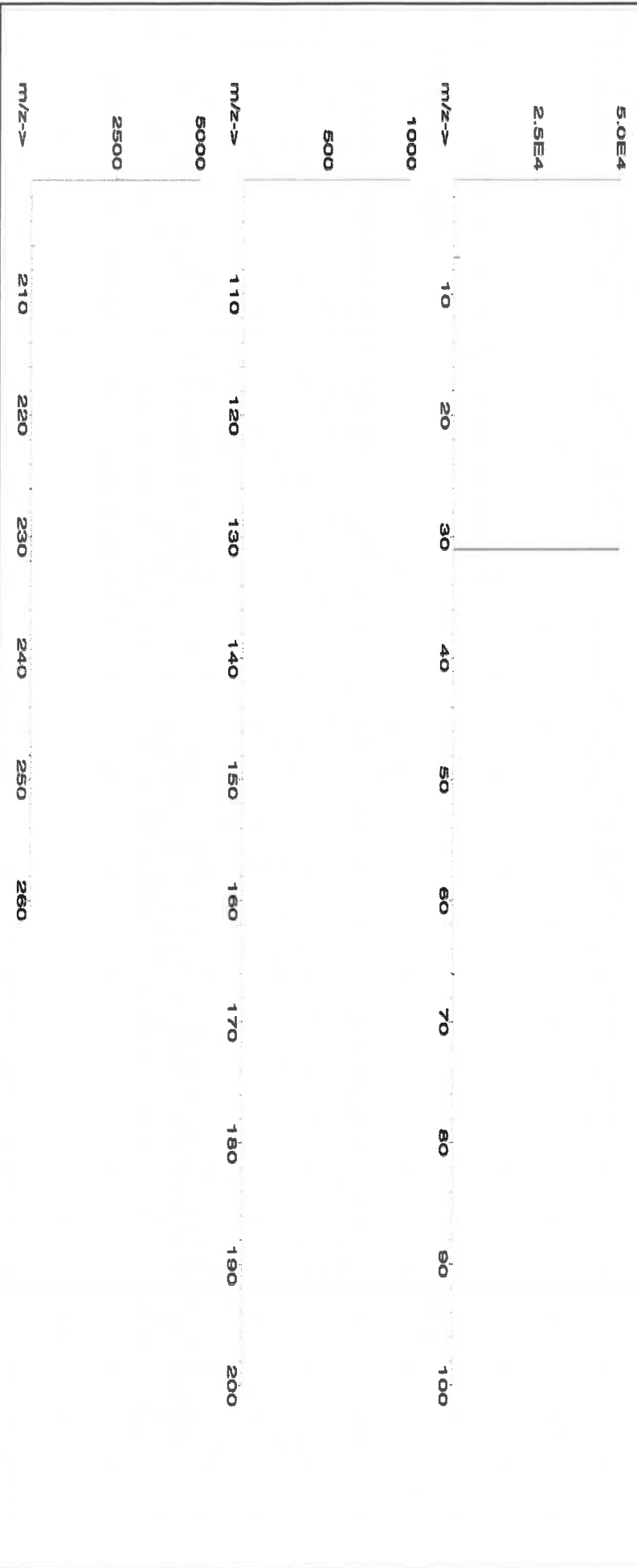
Weight shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

Formulated By: Lawrence Barry	041723
Reviewed By: Pedro L. Rentas	041723

Compound										SDS Information		NIST SRM
RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	LD50

1. Ammonium dihydrogen phosphate (P) IN008 PVR2019A1 10000 99.999 0.10 27.5 72.7287 72.7289 10000.0 20.0 7722-76-1 5 mg/m3 or-hal->2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57016
122923
Sulfur (S)

Lot #

ASTM Type 1 Water

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000

NIST Test Number: 6L7B
Weight shown below was diluted to (mL): 4000.0
SE-05 Balance Uncertainty
0.06 Flask Uncertainty

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Ammonium sulfate (S) IN117 SLBR725V 1000 99.9 0.10 24.3 16.4979 16.4980 1000.0 2.0 7783-20-2 NA 0.01-0.02 4250mg/kg 3181

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	S	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57116
071123
Sulfur (S)

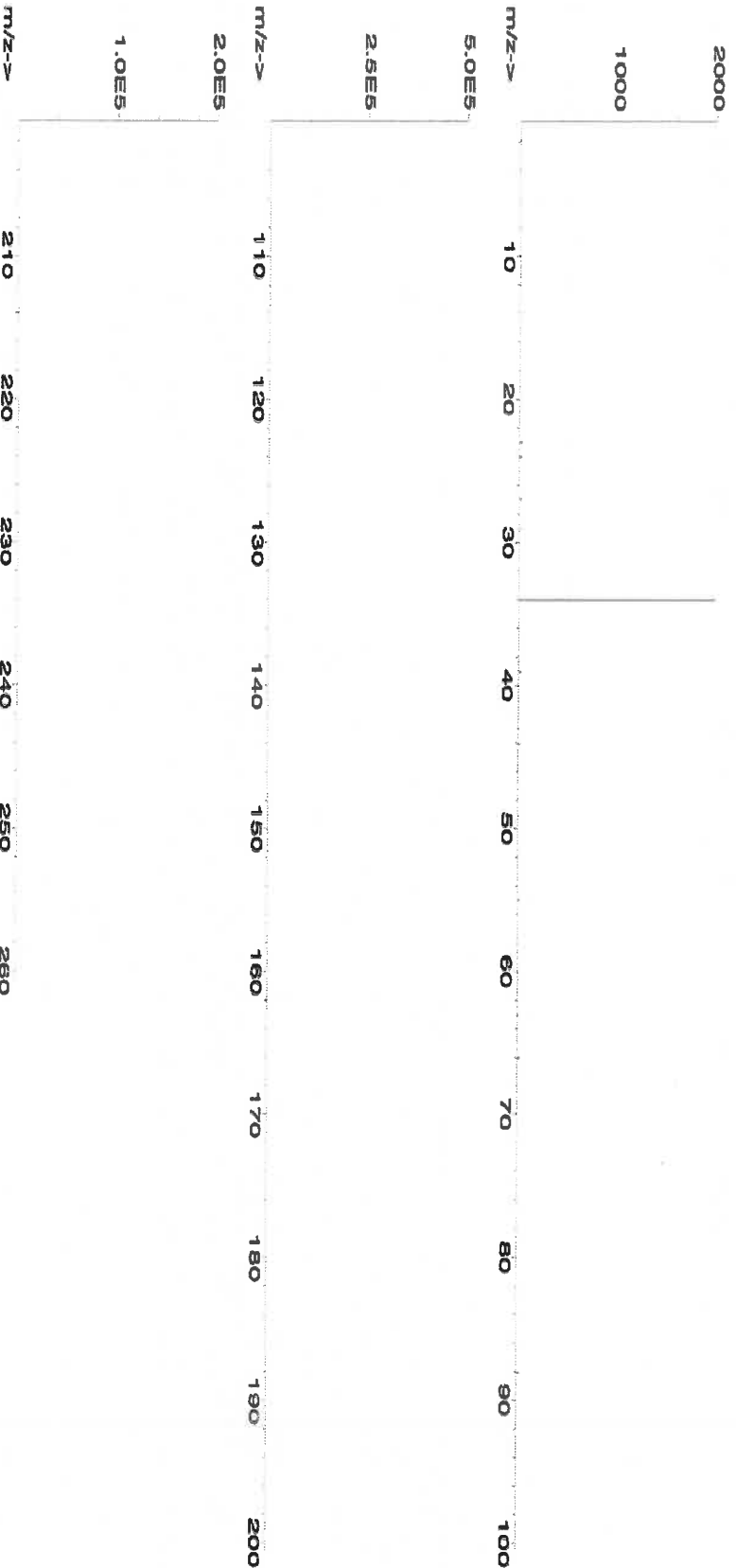
Lot #
Solvent: 071123
ASTM Type 1 Water

Formulated By:	Lawrence Barry
	071123
Reviewed By:	Pedro L. Rentas
	071123

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
Ammonium sulfate (S)	IN117 SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4692	10000.1	20.0
						7763-20-2	NA	oralal 4250mg/kg	3181

[1] Spectrum No. 1 [24.004 sec]:58116.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Ti	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

Physical Characterization:

(T)= Target analyte

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57014**
Lot Number: **122023**
Description: **Silicon (Si)**

Solvent: **24002546 Nitric Acid**

Lot #

Expiration Date: **122026**

2% 40.0 (mL) Nitric Acid

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

<i>Aleah O Brady</i>	
Formulated By:	Aleah O Brady
Reviewed By:	<i>Pedro L. Rentas</i>
	Pedro L. Rentas
	122023

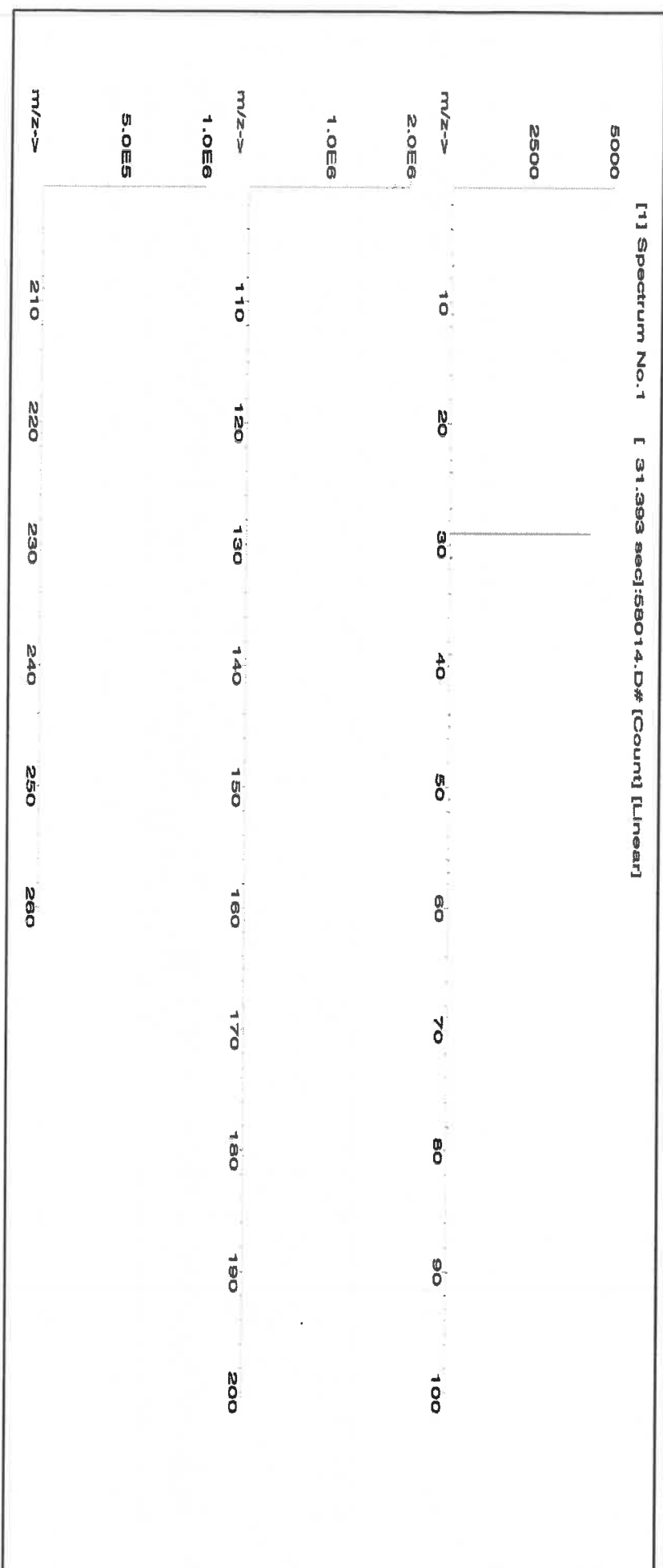
Weight shown below was diluted to (mL): **1999.48** 0.058 Balance Uncertainty Flask Uncertainty

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Ammonium hexafluorosilicate (Si) IN009 S1D08022A1 1000 99.999 0.10 14.4 13.8854 13.8855 1000.0 2.0 18919-19-0 2.5 mg/m3 off-mus 70 mg/kg NA

[1] Spectrum No. 1 [31.393 sec; 158014.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Ru	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Solvent: 24002546 Nitric Acid

Lot # R: 02109124 MS819

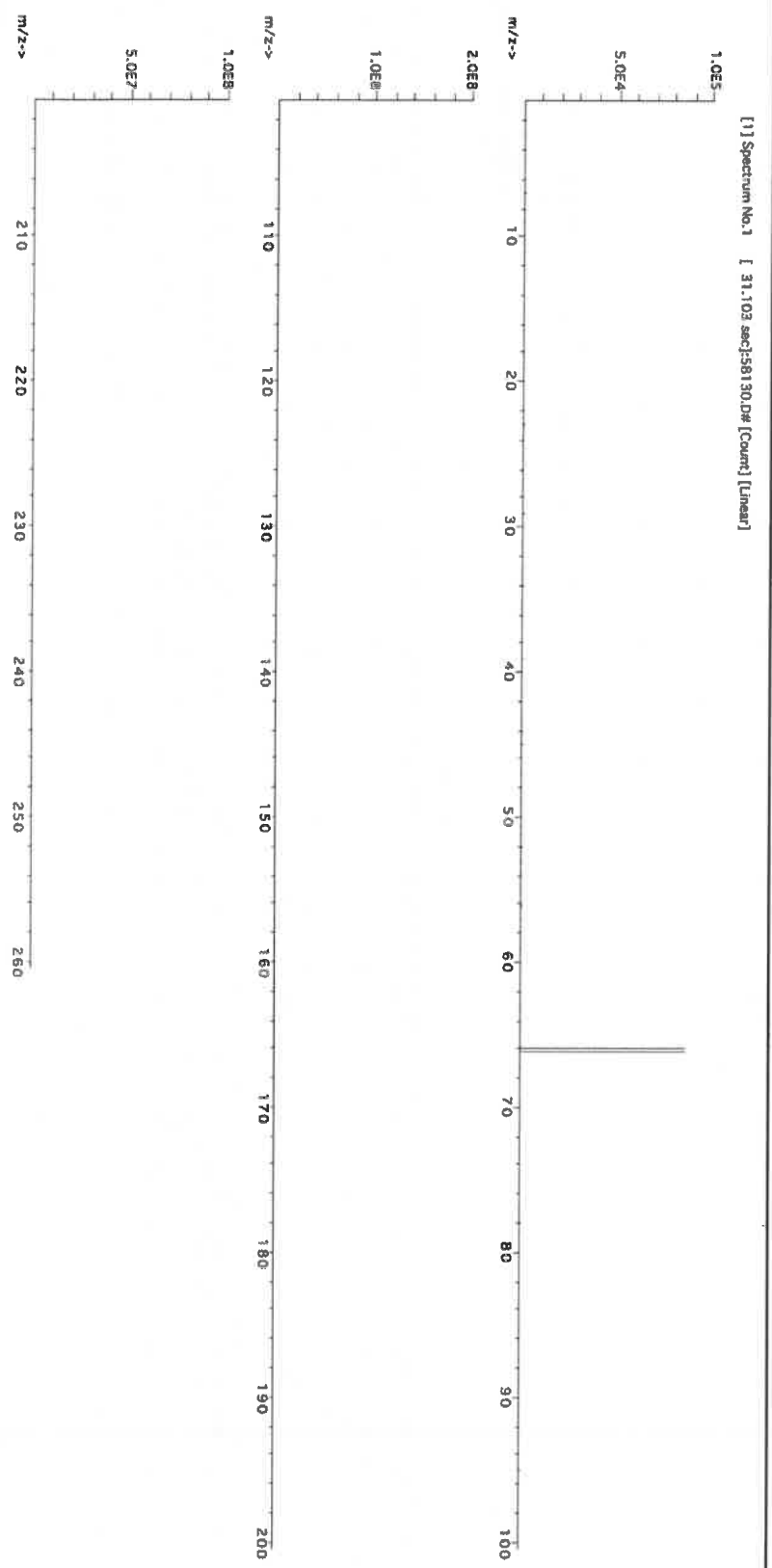
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Reintas
111623	

Weight shown below was diluted to (mL): 3000.4
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.06

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LDSO	NIST SRM
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1. Zinc nitrate hexahydrate (Zn) IN016 ZNE03021A1 1000 99.999 0.10 24.3 12.3475 12.3502 1000.2 2.0 10196-16-6 1 mg/mL 3168





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57015
091123
Phosphorous (P)

Solvent: 24002546 Nitric Acid

Lot #

R: 02109124 M5820

Formulated By: Lawrence Barry 091123

Reviewed By: Pedro L. Rentas 091123

2% 40.0 (mL) Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):

091126
Ambient (20 °C)
1000

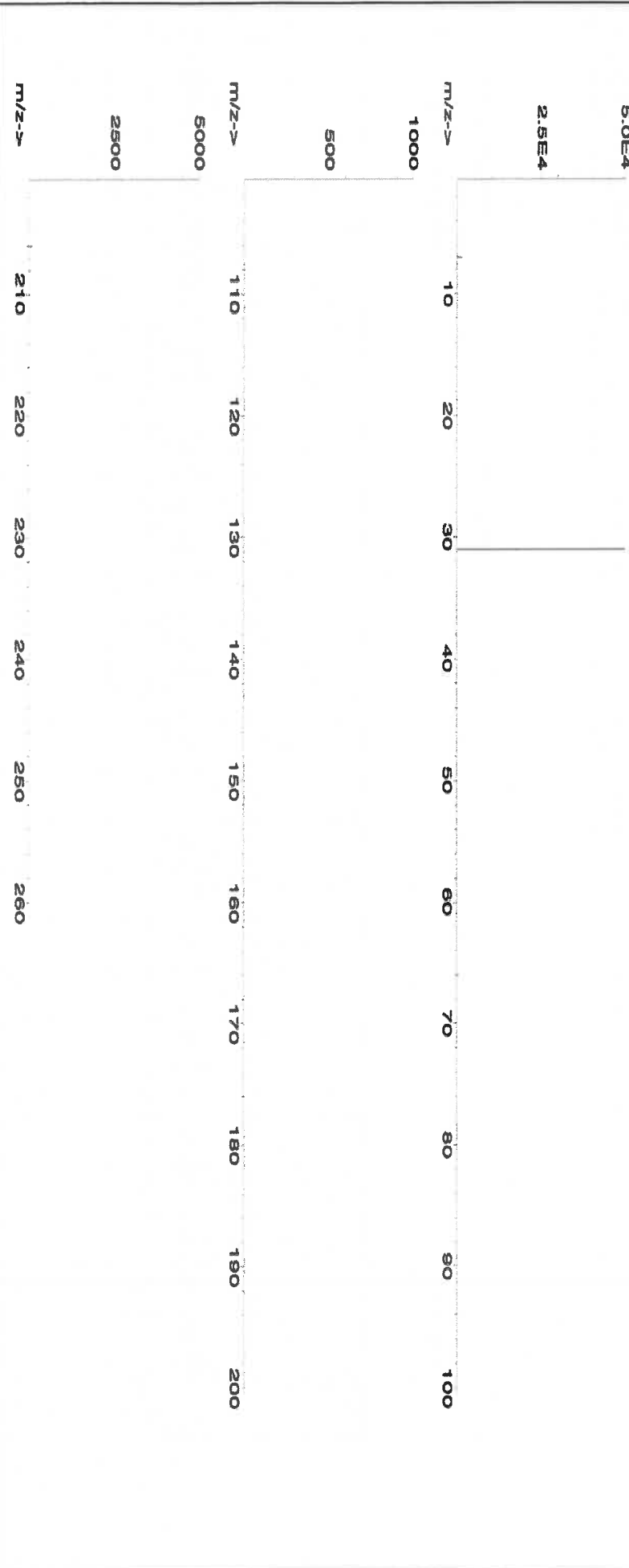
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Ammonium dihydrogen phosphate (P) IN008 PVO62019A1 1000 99.999 0.10 27.5 7.2729 7.2730 1000.0 2.0 7722-76-1 5 mg/m3 xH-rat >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sa	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

MS961 R-1 6/11/24

Lot #

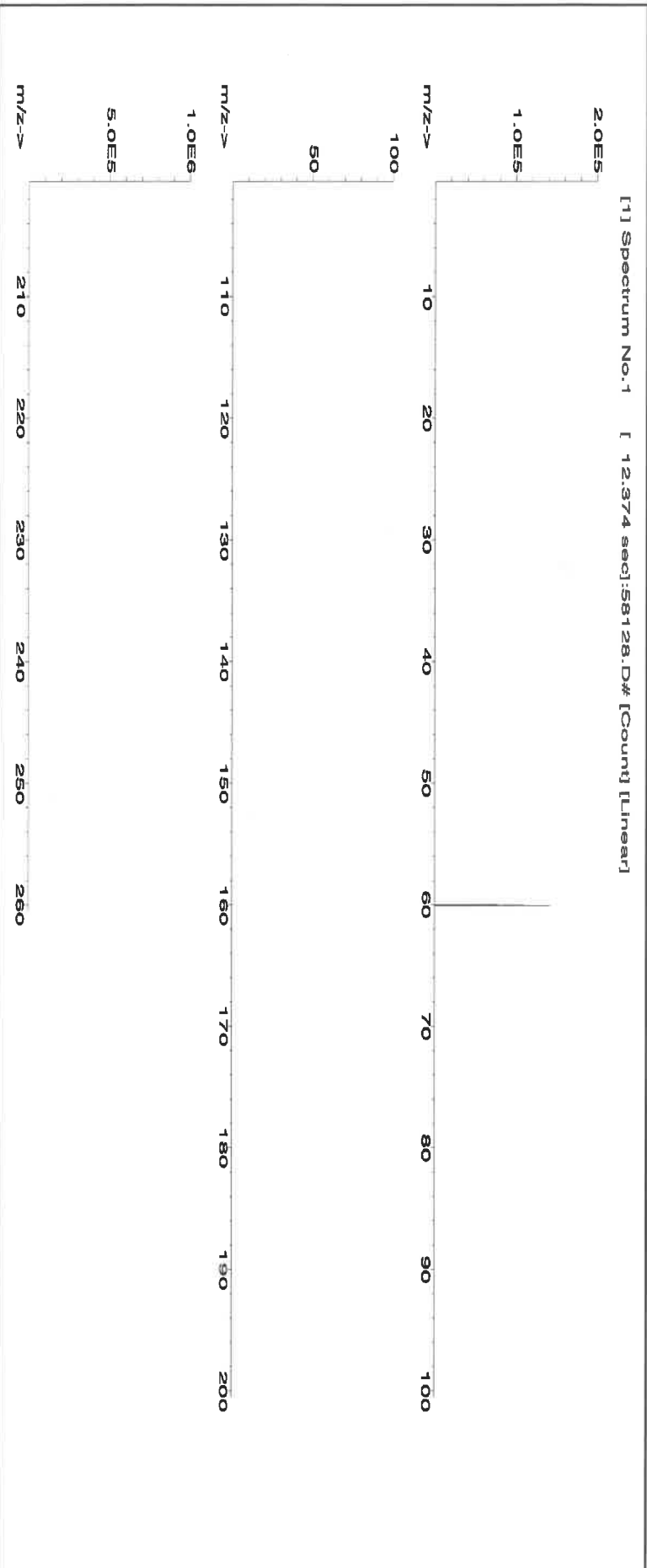
Part Number: 57028
Lot Number: 041124
Description: Nickel (NI)
Solvent: 24002546 Nitric Acid
Expiration Date: 041127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 249.85
5E-05 Balance Uncertainty
0.002 Flask Uncertainty
2% 5.0 (mL) Nitric Acid

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM
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1. Nickel(II) nitrate hexahydrate (NI) IN033 NIM052023A1 1000 99.999 0.10 20.2 1.2369 1.2369 1000.0 2.0 13478-00-7 1 mg/m3 or-rat 1620 mg/kg 3136





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Bc	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:

Lot Number:

Description:

Lot #
24002546
Solvent:
Nitric Acid

57034
060624
Selenium (Se)

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test Number:

Volume shown below was diluted to (mL):

2.0%
40.0 (mL)
Nitric Acid

060627
Ambient (20 °C)
1000

SE-05 Balance Uncertainty
0.100 Flask Uncertainty

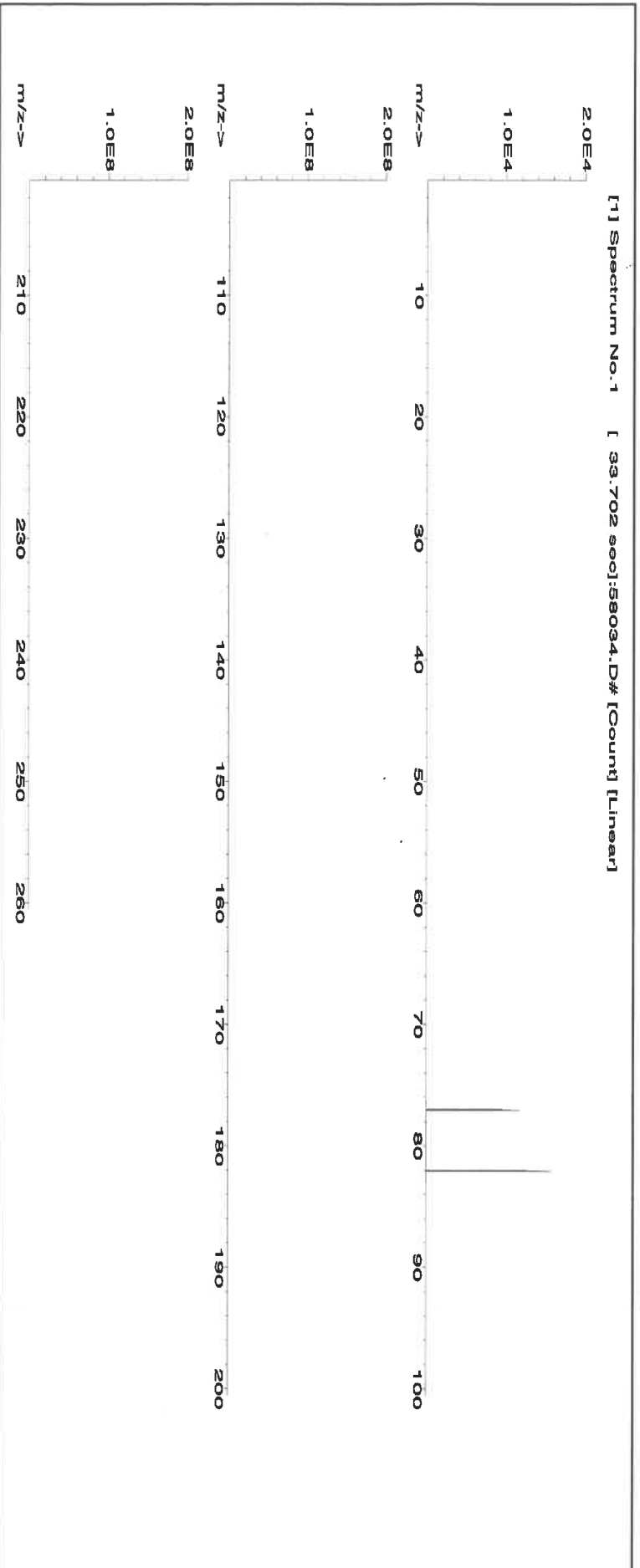
SDS Information

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	NIST SRM
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1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	1000.0	2.2	7782-49-2	0.2 mg/m3	or-tral 6700 mg/kg	3149
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[1] Spectrum No.1 [33.702 sec]:58034.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.02	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02			Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMO1
Lot Number: T2-MO720876
Matrix: H2O
tr. NH4OH
Value / Analyte(s): 1 000 µg/mL ea:
Molybdenum
Starting Material: Ammonium Molybdate
Starting Material Lot#: 2361
Starting Material Purity: 99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL
Density: 1.000 g/mL (measured at 20 ± 4 °C)
Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9

[MoO₄]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH₄OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO₄]-2 is soluble in concentrated HCl [MoOCl₅]-2, dilute HF / HNO₃ [MoOF₅]-2 and basic media [MoO₄]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO₄]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF₅]-2 for months in 1% HNO₃ / LDPE container. 1-10,000 ppm single element solutions as the [MoO₄]-2 chemically stable for years in 1% NH₄OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO₃ or hot dilute HCl); Oxide (soluble in HF or NH₄OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.569.6799; 540.585.3030, Fax: 540.585.3012; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

MS978, MS979



Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution

Catalog Number: CGT1

Lot Number: T2-T1719972

Matrix: 2% (v/v) HNO₃

Value / Analyte(s): tr. HF

Starting Material: 1 000 µg/mL ea.

Starting Material: Titanium

Starting Material: Ti Metal

Starting Material Lot#: 2094

Starting Material Purity: 99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Method #1

1002 ± 4 µg/mL

ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods
Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = (X_p / U_{CRM})$

X_p = mean of Assay Method A with

U_{CRM} = the standard uncertainty of characterization Method A

$U_{CRM} = (U_{CRM1}^2 + U_{CRM2}^2 + \dots + U_{CRMn}^2)^{1/2}$

$U_{CRM1} = (U_{CRM11}^2 + U_{CRM12}^2 + \dots + U_{CRM1n}^2)^{1/2}$

$U_{CRM1} = (U_{CRM11}^2 + U_{CRM12}^2 + \dots + U_{CRM1n}^2)^{1/2}$

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$U_{CRM1} = (U_{CRM11}^2 + U_{CRM12}^2 + \dots + U_{CRM1n}^2)^{1/2}$

$U_{CRM1} = (U_{CRM11}^2 + U_{CRM12}^2 + \dots + U_{CRM1n}^2)^{1/2}$

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UHPA-filtered Clean Room. An UHPA-filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M Ag	<	0.000536	M Eu	<	0.000268	O Na	<	0.032670	M Se	<	0.001204	O Zn	<	0.003267
M Al	<	0.000872	O Fe	<	0.003225	O Nb	<	0.043560	O Si	<	0.004735	O Zr	<	0.043560
M As	<	0.008586	M Ga	<	0.000268	M Nd	<	0.000268	M Sm	<	0.000268			
M Au	<	0.004577	M Gd	<	0.000268	O Ni	<	0.010890	M Sn	<	0.000986			
O B	<	0.008929	M Ge	<	0.002146	M Os	<	0.000269	O Sr	<	0.000986			
M Ba	<	0.002683	M Hf	<	0.002161	O P	<	0.054450	M Ta	<	0.010560			
M Be	<	0.005366	M Hg	<	0.003231	M Pb	<	0.001073	M Tb	<	0.000268			
M Bi	<	0.001609	M Ho	<	0.000268	M Pd	<	0.000268	M Th	<	0.001341			
O Ca	<	0.000676	M In	<	0.002683	M Pr	<	0.000268	M Tl	<	0.053663			
M Cd	<	0.000268	M Ir	<	0.000269	M Pt	<	0.000536	S Ti	<				
M Co	<	0.000268	M K	<	0.001172	M Rb	<	0.000268	M Tl	<	0.000268			
M Cr	<	0.000752	O Li	<	0.000268	M Re	<	0.000268	M Tm	<	0.000268			
M Cs	<	0.000268	M Lu	<	0.000268	M Rh	<	0.000268	M U	<	0.000268			
O Cu	<	0.010890	O Mg	<	0.005445	I S	<	0.006976	M Y	<	0.002146			
M Dy	<	0.000268	O Mn	<	0.003267	M Sb	<	0.004900	M Yb	<	0.000536			
M Er	<	0.000268	M Mo	<	0.000774	O Sc	<							

6.0 INTENDED USE

M - Checked by ICP-MS
O - Checked by ICP-OES
I - Spectral Interference
n - Not Checked For
s - Solution Standard Element

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 ± 4.6 Ti(F)₆-2 media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)₆-2 for months in 1% HNO₃ / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)₆-2 chemically stable for years in 2-5% HNO₃ / trace HF in an LDPE container.

TI Containing Samples (Preparation and Solution) - Metal (Soluble in H₂O / HF caution - powder reacts violently). Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H₂O / HF / H₂SO₄); K₂SiO₇ - no KF if silica not present); Organic Matrices (Dry ash at 450EC in P10 and dissolve by heating with 1:1:1 H₂O / HF / H₂SO₄ or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystaline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	14 ppt
ICP-MS 48 amu	N/A	
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1
ICP-OES 334.941 nm	0.0038 / 0.00028 µg/mL	1
ICP-OES 336.121 nm	0.0053 / 0.00034 µg/mL	1

HF Note: This standard should not be prepared or stored in glass.

W, Mo, Co
Nb, Ta, Cr, U
Ce, Ar, Ni
Ru
(where X = Zr, Mo,
14N17N2, 36Ar12C,
48Ca, 196X=2
14N16O18O,
32S16O, 32S14N,
N/A
Order Interferences (underlined indicates severe)

8.0

HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0

HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0

QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, VA 24073, USA. Telephone: 800.868.6786; 540.565.3030; Fax: 540.565.3030; Email: info@inorganicventures.com; <http://www.inorganicventures.com>

11.0

CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date:

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0

NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozlikowski
Manager, Quality Control

TD9784

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul Gaines



MS981

R:6/11/24



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57092
060724
Uranium (U)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

060727
Ambient (20 °C)
1000
6UTB

Volume shown below was diluted to (mL): 2000.07

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Lot # Solvent:
24002546 Nitric Acid

2.0% Nitric Acid
40.0 (mL)

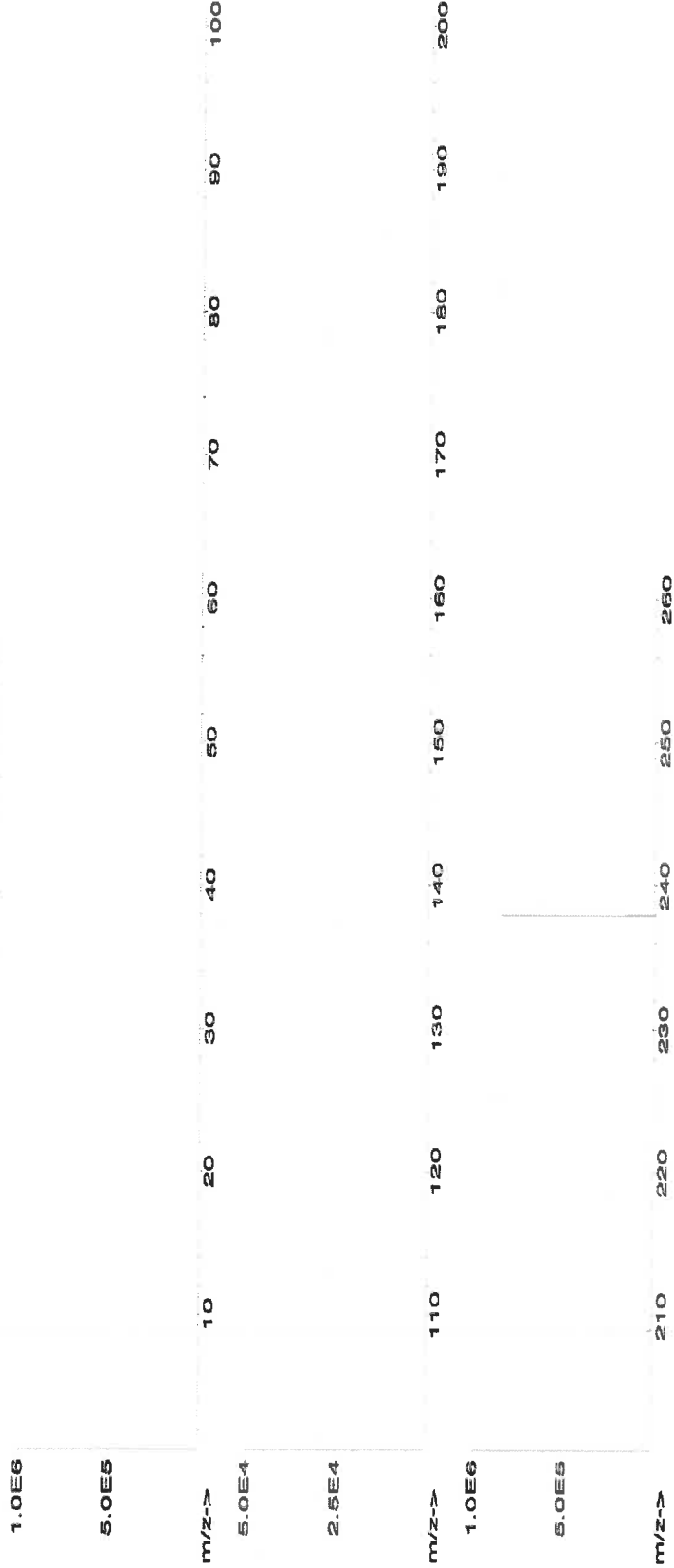
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-------------	------------	-----------------	-------------------	--------------------------	-----------------------	-----------------------	---------------------	----------------------------------	--	------	----------------	------	----------

1. Uranyl nitrate hexahydrate (U) 58192 041524 0.1000 200.0 0.084 1000 10001.5 1000.0 2.2 13620-83-7 0.05 mg/m3 orl-rat 1040 mg/kg 3164

[1] Spectrum No.1 [23.264 sec]:57092.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																							
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02				
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02				
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02				
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02				
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02				
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02				
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02				

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

[Signature]

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

7236 673 3 67



145983

R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57040
071423
Zirconium (Zr)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

071426
Ambient (20 °C)
1000
6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # Solvent:
21110221 Nitric Acid

2.0% Nitric Acid
40.0 (mL)

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas

Expanded
Uncertainty
+/- (µg/mL)

SDS Information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	1000.0	2.2	13520-92-8	NA	NA	NA

[1] Spectrum No.1 [41.153 sec]:57040.D# [Count] [Linear]

1.OE6

5.OE5

m/z-->

1.OE8

5.OE7

m/z-->

1.OE8

5.OE7

m/z-->



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.02	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02
																			T

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

[Signature]

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified ($\pm$) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/2024
M5999

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CLPP-SPK-1
Lot Number: T2-MEB721963
Matrix: 7% (v/v) HNO₃
Value / Analyte(s):
2 000 µg/mL ea: Aluminum, Barium,
1 000 µg/mL ea: Iron,
500 µg/mL ea: Manganese, Nickel,
Vanadium, Zinc,
Cobalt,
250 µg/mL ea: Copper,
200 µg/mL ea: Chromium,
50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{tts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{tts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{tts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{tts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Certified Reference Material CRM
R: 01/03/24 M6033



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

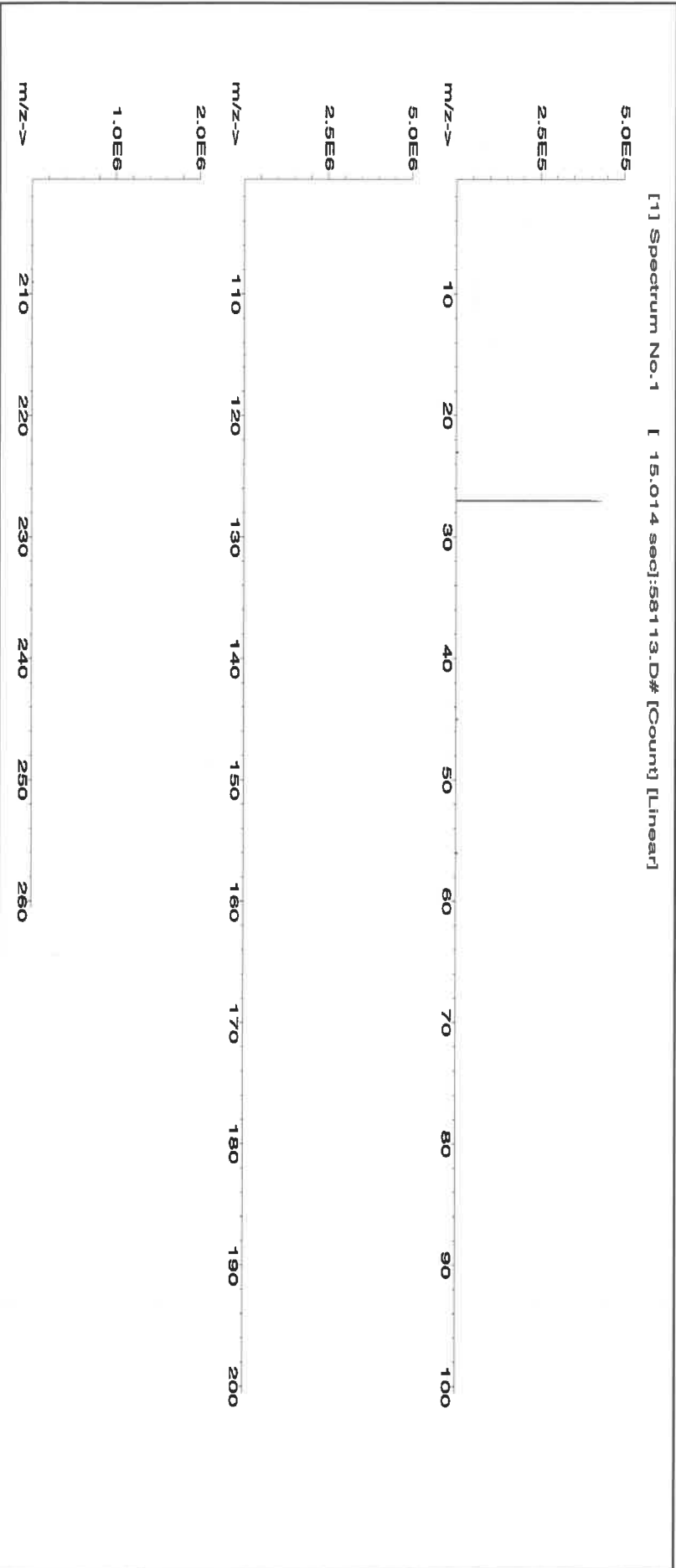
CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 011623
Description: Aluminum (Al)
Expiration Date: 011626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6LUTB
Weight shown below was diluted to (mL): 2000.02
Solvent: 20510011 Nitric Acid
Lot #
2% 40.0 (mL) Nitric Acid
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Rentas</i>
	Pedro L. Rentas
	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Aluminum nitrate nonahydrate (Al) IN022 ALUM12021A1 10000 99.999 0.10 7.30 273.9779 274.0078 10001.1 20.0 7784-27-2 2 mg/m³ or rat 3671 mg/kg 3101a



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Received! — 08/01/2024
pater
m6039
m6040

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
------	---------------	--------

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

18/19/24, M6055

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories".

Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: IV-STOCK-12

Lot Number: U2-MEB734294

Matrix: 5% (v/v) HNO₃

Value / Analyte(s): 10 µg/mL ea:

Barium,	Beryllium,
Bismuth,	Cerium,
Cobalt,	Indium,
Lithium,	Nickel,
Lead,	Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



R → 16/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	< 1
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

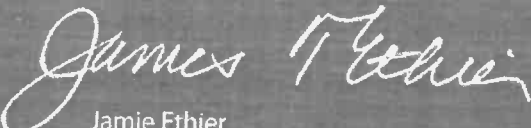
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier

Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Nitric Acid 69%
CMOS



R → 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
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For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot # 24012496
Description: Magnesium (Mg)
Solvent: Nitric Acid

Expiration Date: 11/21/27
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6LUB
Weight shown below was diluted to (mL): 2000.07
5E-05 Balance Uncertainty
0.100 Flask Uncertainty

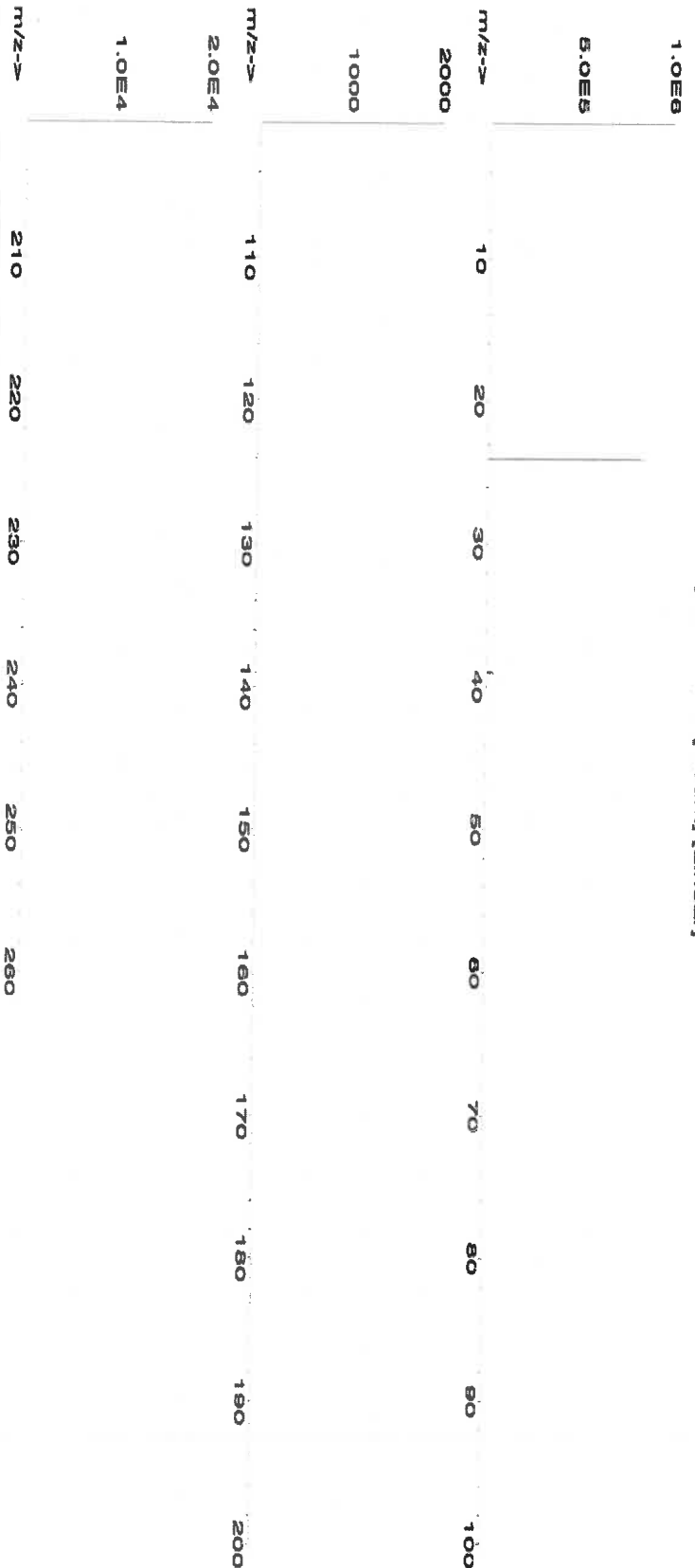
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Rentas
	112124

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Magnesium nitrate hexahydrate (Mg) IN030 MG000023A1 10000 99.999 0.10 8.51 234.9183 234.9459 10001.2 20.0 13446-18-9 NA off-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.823 sec]:58112.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Rc	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rb	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sm	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sc	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2			Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58025
101124
Manganese (Mn)

Lot #
Solvent: Nitric Acid

Expiration Date:

101127

2% 80.0 (mL) Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

SE-05 Balance Uncertainty

Weight shown below was diluted to (mL):

4000.2

0.10 Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	101124

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
-----	------------	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Manganese(II) nitrate hydrate (Mn) IN031 MMN032020A1 1000 99.999 0.10 20.8 19.2322 19.2344 1000.1 2.0 15710-66-4 5 mg/m3 or-rel >300mg/kg 3132

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]

5.0E6													
2.5E6													
m/z->	10	20	30	40	50	60	70	80	90	100			
1.0E6													
5.0E7													
m/z->	110	120	130	140	150	160	170	180	190	200			
1.0E6													
5.0E7													
m/z->	210	220	230	240	250	260							



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 122226

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 10000

NIST Test Number: 6UTB

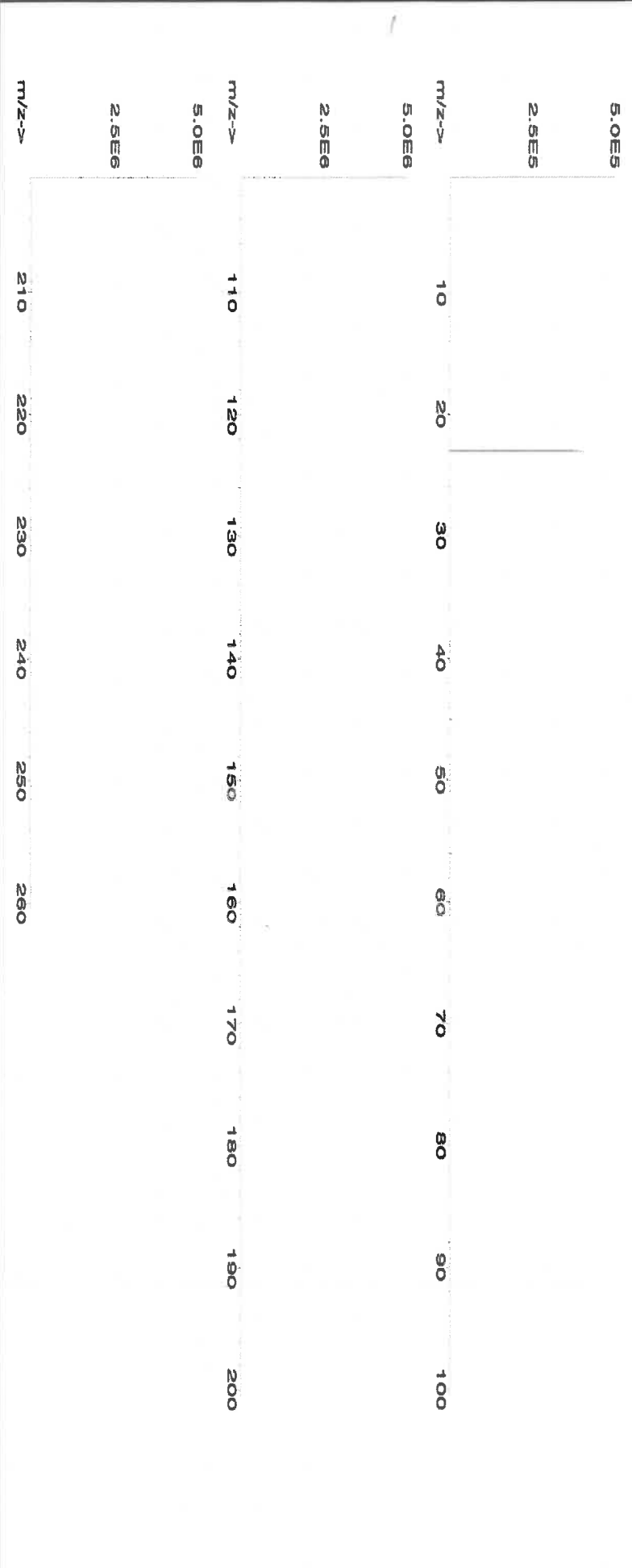
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

<i>Aleah O Brady</i>	
Formulated By:	Aleah O Brady
Reviewed By:	Pedro L. Rentas
	122223

SDS Information																
Expanded																
(Solvent Safety Info. On Attached pg.)																
Compound		Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Uncertainty	CAS#	OSHA PEL (TWA)	LD50	NIST	SRM	
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)							

1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.999 0.10 26.9 111.5406 111.5479 10000.7 20.0 7631-99-4 5 mg/m3 or-trat 3430 mg/kg 3152a

[1] Spectrum No.1 [8.935 sec]:58111.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Tm	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Sn	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Zn	<0.02	Zr	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02		

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: 6020ISS
Lot Number: S2-MEB709511
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 µg/mL ea:
Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i^2)(u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 03, 2026**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____
- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





**QATS LABORATORY INORGANIC REFERENCE MATERIAL
 INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
 Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
 APTIM Federal Services, LLC
 2700 Chandler Avenue - Building C
 Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this ICSAB solution by ICP-MS.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803							
Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[] Indicates analytes that do not require ICP-MS determination in the ICS.

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.



**QATS LABORATORY INORGANIC REFERENCE MATERIAL
 INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
 Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
 APTIM Federal Services, LLC
 2700 Chandler Avenue - Building C
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(C) ANALYSIS OF SAMPLES

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this ICSAB solution by ICP-MS.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803							
Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[] Indicates analytes that do not require ICP-MS determination in the ICS.

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57051
120523
Antimony (Sb)

Lot #
Solvent:

24002546
Nitric Acid

2.0%
60.0
Nitric Acid
(mL)

Expiration Date:

120526

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6U7B

Volume shown below was diluted to (mL):

3000.41

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

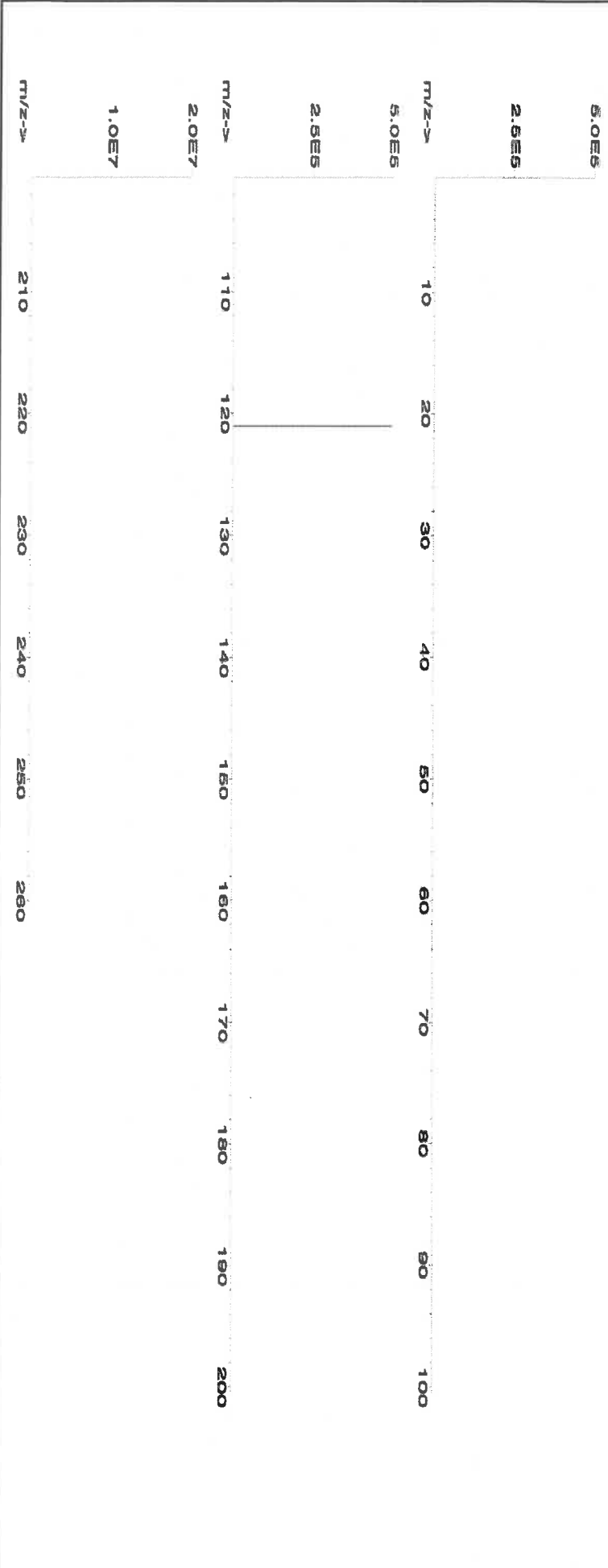
Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Renteria	120523

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	-------------	------------	-----------------	-------------------	--------------------------	-----------------------	-----------------------	---------------------	----------------------------------	------	----------------	------	----------

1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	1000.0	2.1	7440-36-0	0.5 mg/m3	or-rel 7000 mg/kg	3102a
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[1] Spectrum No.1 [17.964 sec]:58051.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M6030



CERTIFIED WEIGHT REPORT:

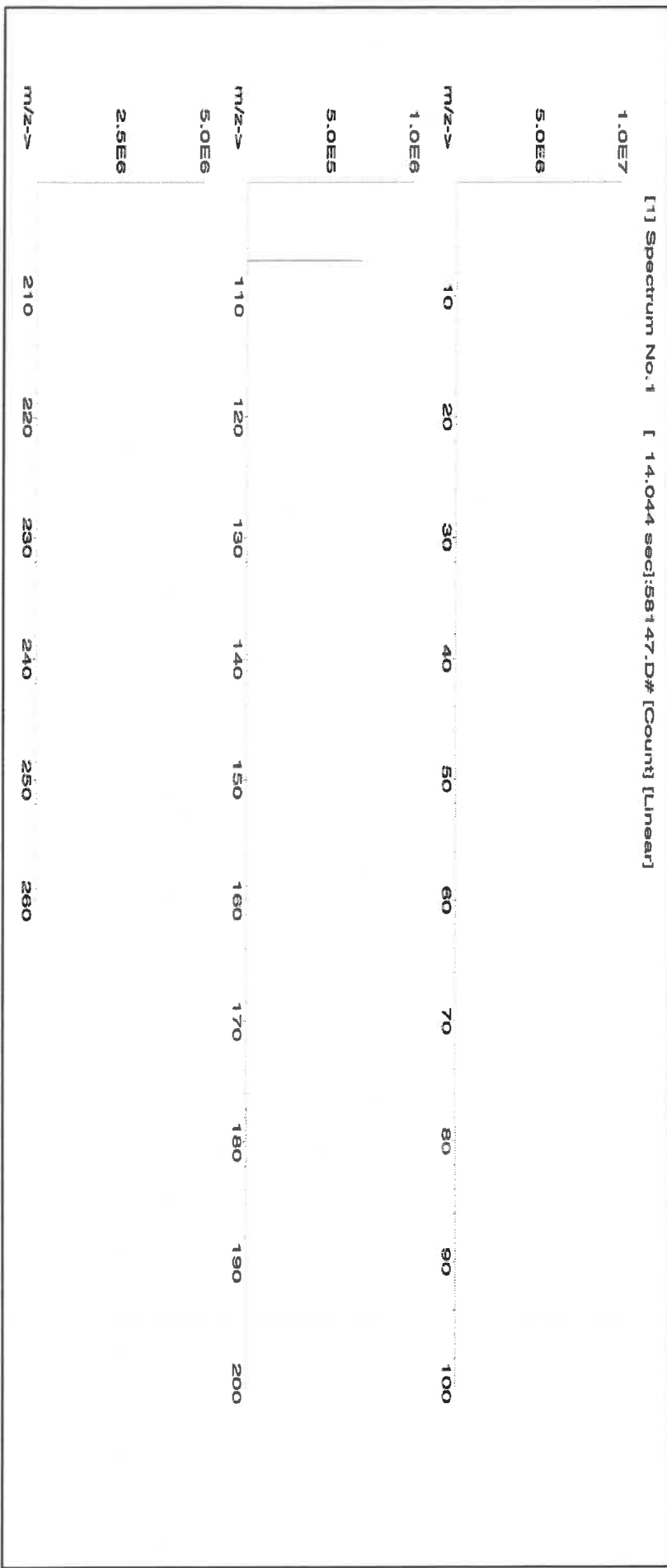
Part Number: **57047**
Lot Number: **122823**
Description: **Silver (Ag)**
Solvent: **24002546 Nitric Acid**

Expiration Date: **122826**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Weight shown below was diluted to (mL): **4000.30**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan
Reviewed By:	
Pedro L. Rentas	
122823	

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.999	0.10	63.7	6.27992	6.27998	1000.0

[1] Spectrum No. 1 [14.044 sec]:58147.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 meghom deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

R: 03/16/23 MS473 MS474 MS475 MS476

Lot #

Part Number:

Solvent: 20510011 Nitric Acid

Lot Number:

2% 20.0 Nitric Acid

Description:

(mL)

Expiration Date:

082925

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

10000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

1000.12 0.058 Balance Uncertainty
Flask Uncertainty

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Renteria	082922

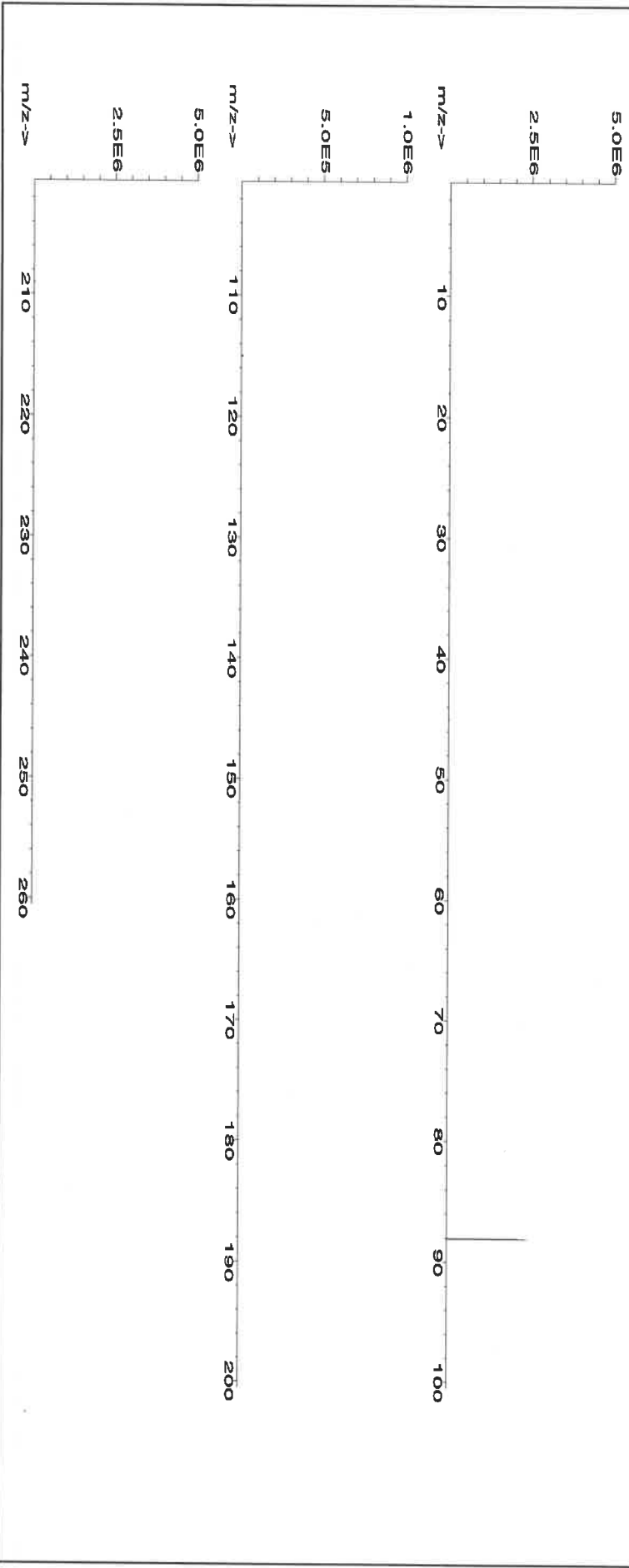
SDS Information

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Strontium nitrate (Sr) IN017 SR2022018A1 10000 99.997 0.10 41.2 24.2756 24.2758 10000.1 20.0 10042-76-9 NA or-rat >2000mg/kg 3153a

[1] Spectrum No. 1 [14.495 sec]: 58138.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (TI)

Lot #

Solvent: 24002546 Nitric Acid

2% 40.0 Nitric Acid (mL)

Expiration Date:

062727

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL): 2000.1

5E-05 Balance Uncertainty
0.10 Flask Uncertainty

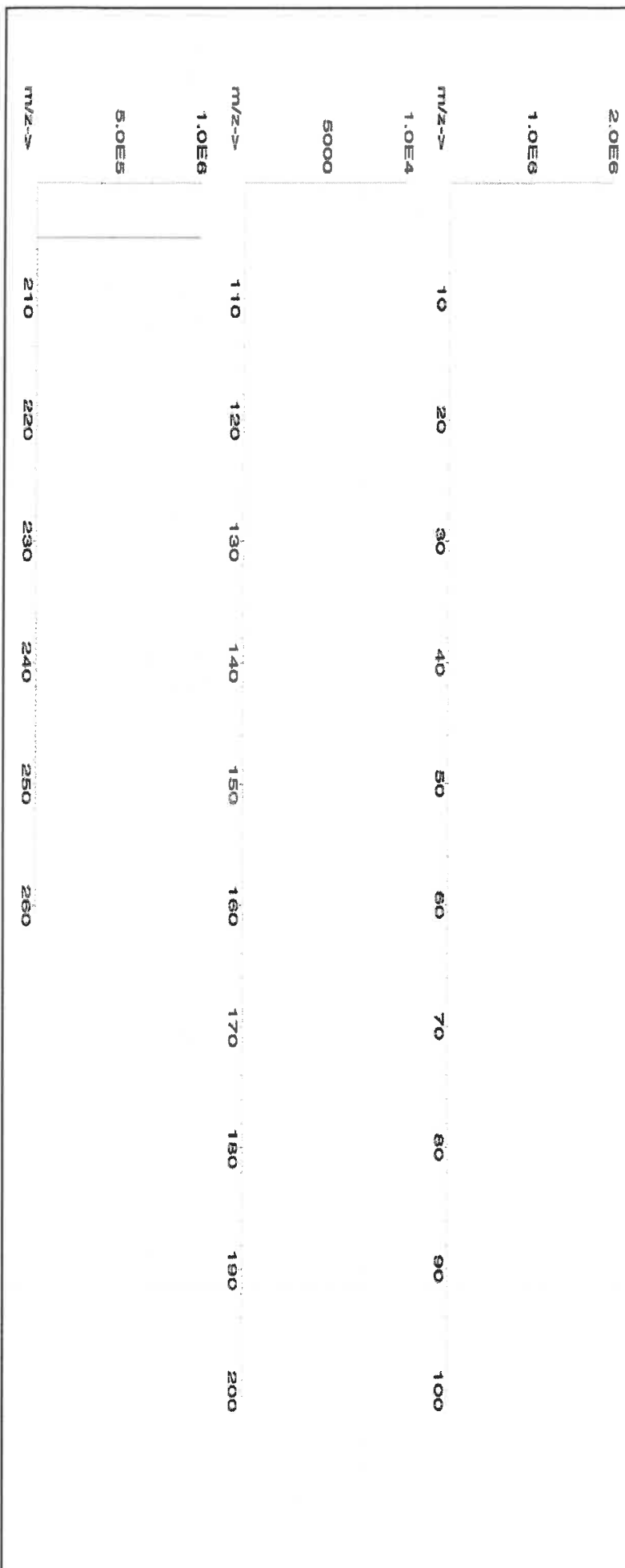
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	062724
Reviewed By:	<i>Pedro L. Renias</i>
	Pedro L. Renias
	062724

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Thallium nitrate (TI) IN037 BCCF4399 1000 99.999 0.10 77.0 2.5975 2.5977 1000.1 2.0 10102-45-1 0.1 mg/m3 or-mus 15mg/kg 3158

[1] Spectrum No.1 [14.044 sec]:57081.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tm	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Sn	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Se	<0.02	Ta	<0.02			Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

M6021



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>

CERTIFIED WEIGHT REPORT:

Part Number: **57023**
Lot Number: **062424**
Description: **Vanadium (V)**

Lot # **24002546**
Solvent: **Nitric Acid**

Aleah O'Brady	
Formulated By:	Aleah O'Brady
	062424
Reviewed By:	Pedro L. Rantas
	062424

Expiration Date: **062427**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**

Volume shown below was diluted to (mL): **2000.3**
0.06 Balance Uncertainty
0.06 Flask Uncertainty

Compound		Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)		58123	021224	0.1000	200.0	0.084	1000	10000.3	1000.0	2.2	7803-55-6	0.05 mg/m3	or-at 58.1mg/kg	3165

[1] Spectrum No.1 [34.243 sec]:58023.D# [Count] [Linear]

2.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
1.0E6	m/z-->	110	120	130	140	150	160	170	180	190	200
2.0E7	m/z-->	210	220	230	240	250	260				
1.0E7	m/z-->										
2.5E8	m/z-->										



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)															
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ti	<0.02
														Tb	<0.02
														Te	<0.02
														Tl	<0.02
														Th	<0.02
														Tm	<0.02
														Sn	<0.02
														Ti	<0.02
														W	<0.02
														U	<0.02
														V	T
														Yb	<0.02
														Y	<0.02
														Zn	<0.02
														Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : MH2D26

Start Digest Date: 12/31/2024 Time : 09:10 Temp : 96 °C

Matrix : SOIL

End Digest Date: 12/31/2024 Time : 09:40 Temp : 96 °C

Pipette ID: ICP A

Digestion tube ID: M6054

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #2

Filter paper ID : N/A

Dig Technician Signature: *SKJ*

pH Strip ID : N/A

Supervisor Signature:

Hood ID : #3

Temp : 1. 96°C 2. N/A

Block ID: 1. HG HOT BLOCK #2 2. N/A

SJ 01/03/2025

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83761 MP83669
Spike Sol. B	1.00	MP83671
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	5.00	MP83498
1.4 HCL SOLN	10.00	MP82128
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HG HOT BLOCK #2 CELL #34 TEMP :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/31/24 10:40	<i>SKJ. met digestion</i>	S.J Metals Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5388-01	MH2D26	N/A	1.35	500	Black	Yellow	Medium	N/A	N/A	1
P5388-02	MH2D29	N/A	1.40	500	Brown	Yellow	Medium	N/A	N/A	2
P5388-03	MH2D32	N/A	1.27	500	Brown	Yellow	Medium	N/A	N/A	3
P5388-04	MH2D35	N/A	1.32	500	Black	Yellow	Medium	N/A	N/A	4
P5388-05	MH2D38	N/A	1.31	500	Brown	Yellow	Medium	N/A	N/A	5
P5388-06	MH2D41	N/A	1.34	500	Brown	Yellow	Medium	N/A	N/A	6
P5388-07	MH2D44	N/A	1.48	500	Brown	Yellow	Medium	N/A	N/A	7
P5388-08	MH2D47	N/A	1.46	500	Brown	Yellow	Medium	N/A	N/A	8
P5388-09	MH2D50	N/A	1.29	500	Brown	Yellow	Medium	N/A	N/A	9
P5388-10	MH2D53	N/A	1.29	500	Brown	Yellow	Medium	N/A	N/A	10
P5388-11	MH2D56	N/A	1.34	500	Brown	Yellow	Medium	N/A	N/A	11
P5388-12	MH2D59	N/A	1.25	500	Brown	Yellow	Medium	N/A	N/A	12
P5388-13	MH2D62	N/A	1.36	500	Brown	Yellow	Medium	N/A	N/A	13
P5388-14	MH2D65	N/A	1.30	500	Gray	Yellow	Medium	N/A	N/A	14
P5388-15	MH2D68	N/A	1.46	500	Brown	Yellow	Medium	N/A	N/A	15
P5388-16	MH2D71	N/A	1.25	500	Brown	Yellow	Medium	N/A	N/A	16
P5388-17	MH2D74	N/A	1.22	500	Brown	Yellow	Medium	N/A	N/A	17
P5388-18	MH2D74D	N/A	1.45	500	Brown	Yellow	Medium	N/A	N/A	18
P5388-19	MH2D74S	N/A	1.36	500	Brown	Yellow	Medium	N/A	MP83671	19
PB165924BL	PBS924	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	20
PB165924BS	LCS924	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP83669	21

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134172

Review By	Sarabjit Jaswal	Review On	1/10/2025 12:10:23 PM
Supervise By	Mohan Bera	Supervise On	1/16/2025 1:30:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636
ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	
LCS Standard	MP83669
Chk Standard	MP83635,MP83634

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	01/06/25 12:39		Jaswal	OK
2	S00	S0	CAL1	01/06/25 13:15		Jaswal	OK
3	S02	S02	CAL3	01/06/25 13:19		Jaswal	OK
4	S03	S03	CAL4	01/06/25 13:25		Jaswal	OK
5	S04	S04	CAL5	01/06/25 13:28		Jaswal	OK
6	S05	S05	CAL6	01/06/25 13:31		Jaswal	OK
7	S06	S06	CAL7	01/06/25 13:34		Jaswal	OK
8	S07	S07	CAL8	01/06/25 13:36		Jaswal	OK
9	S08	S08	CAL9	01/06/25 13:39		Jaswal	OK
10	ICV001	ICV001	ICV	01/06/25 14:05	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	01/06/25 14:24	Inst. paused for review	Jaswal	OK
12	ICSA001	ICSA001	ICSA	01/06/25 14:27		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	01/06/25 14:31		Jaswal	OK
14	CCV001	CCV001	CCV	01/06/25 14:34		Jaswal	OK
15	CCB001	CCB001	CCB	01/06/25 14:41	Inst. paused for review	Jaswal	OK
16	PB165957BL	PBS957	MB	01/06/25 14:58	Not Use	Jaswal	Not Ok
17	PB165957BS	LCS957	LCS	01/06/25 15:01	Not Use	Jaswal	Not Ok
18	P5365-01DL	TAPFTA-SB011-4.5-12	SAM	01/06/25 15:03	Not Use	Jaswal	Not Ok

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134172

Review By	Sarabjit Jaswal	Review On	1/10/2025 12:10:23 PM
Supervise By	Mohan Bera	Supervise On	1/16/2025 1:30:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636
ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	
LCS Standard	MP83669
Chk Standard	MP83635,MP83634

19	P5365-01DUPDL	TAPFTA-SB01I-4.5-12	DUP	01/06/25 15:07	Not Use	Jaswal	Not Ok
20	P5365-01LDL	TAPFTA-SB01I-4.5-12	SD	01/06/25 15:10	Not Use	Jaswal	Not Ok
21	P5365-01DLMS	TAPFTA-SB01I-4.5-12	SAM	01/06/25 15:13	Not Use	Jaswal	Not Ok
22	P5365-01DLMSD	TAPFTA-SB01I-4.5-12	SAM	01/06/25 15:16	Not Use	Jaswal	Not Ok
23	P5365-01ADL	TAPFTA-SB01I-4.5-12	PS	01/06/25 15:19	Not Use	Jaswal	Not Ok
24	CCV002	CCV002	CCV	01/06/25 15:35		Jaswal	OK
25	CCB002	CCB002	CCB	01/06/25 15:38		Jaswal	OK
26	PB165924BL	PBS924	MB	01/06/25 15:41		Jaswal	OK
27	PB165924BS	LCS924	LCS	01/06/25 15:44		Jaswal	OK
28	P5388-01	MH2D26	SAM	01/06/25 15:48	Pb,Mn High	Jaswal	Dilution
29	P5388-02	MH2D29	SAM	01/06/25 15:51	Pb,Mn,Zn High , INT_STD 209Bi(1) Fail	Jaswal	Dilution
30	P5388-03	MH2D32	SAM	01/06/25 15:54	Pb High	Jaswal	Dilution
31	P5388-04	MH2D35	SAM	01/06/25 15:57	Pb,Mn High, INT_STD 209Bi(1) Fail	Jaswal	Dilution
32	P5388-05	MH2D38	SAM	01/06/25 16:00	As,Pb High, INT_STD 209Bi(1) Fail	Jaswal	Dilution
33	P5388-06	MH2D41	SAM	01/06/25 16:03	Pb High	Jaswal	Dilution
34	P5388-07	MH2D44	SAM	01/06/25 16:06	As,Pb High , INT_STD 209Bi(1) Fail	Jaswal	Dilution
35	P5388-08	MH2D47	SAM	01/06/25 16:09	As,Pb,Zn High, INT_STD 209Bi(1) Fail	Jaswal	Dilution
36	P5388-09	MH2D50	SAM	01/06/25 16:12	Pb High, INT_STD 209Bi(1) Fail	Jaswal	Dilution

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134172

Review By	Sarabjit Jaswal	Review On	1/10/2025 12:10:23 PM
Supervise By	Mohan Bera	Supervise On	1/16/2025 1:30:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636		
ICV Standard	MP83629		
CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard			
LCS Standard	MP83669		
Chk Standard	MP83635,MP83634		

37	P5388-10	MH2D53	SAM	01/06/25 16:15	Pb high	Jaswal	Dilution
38	P5388-11	MH2D56	SAM	01/06/25 16:18	As,Cu,Pb High, INT_STD 209Bi(1) Fail	Jaswal	Dilution
39	P5388-12	MH2D59	SAM	01/06/25 16:21		Jaswal	OK
40	P5388-13	MH2D62	SAM	01/06/25 16:24		Jaswal	OK
41	P5388-14	MH2D65	SAM	01/06/25 16:27	Mn High	Jaswal	Dilution
42	P5388-15	MH2D68	SAM	01/06/25 16:31	Pb,Mn,Zn High	Jaswal	Dilution
43	P5388-16	MH2D71	SAM	01/06/25 16:34		Jaswal	OK
44	P5388-17	MH2D74	SAM	01/06/25 16:37		Jaswal	OK
45	P5388-18	MH2D74D	DUP	01/06/25 16:40		Jaswal	OK
46	P5388-19	MH2D74S	MS	01/06/25 16:43		Jaswal	OK
47	P5388-17L	MH2D74L	SD	01/06/25 16:46		Jaswal	OK
48	CCV003	CCV003	CCV	01/06/25 16:49		Jaswal	OK
49	CCB003	CCB003	CCB	01/06/25 16:52		Jaswal	OK
50	P5388-01DL	MH2D26	SAM	01/06/25 17:48	2X For Pb,Mn Still Mn High	Jaswal	Dilution
51	P5388-02DL	MH2D29	SAM	01/06/25 17:51	2X For Pb,Mn,Zn, still Pb,Mn High, 2X for INT_STD 209Bi(1) Still Fail so report From Original	Jaswal	Dilution
52	P5388-04DL	MH2D35	SAM	01/06/25 17:54	2X for Pb,Mn,Still High, 2X for INT_STD 209Bi(1) Still Fail	Jaswal	Dilution

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134172

Review By	Sarabjit Jaswal	Review On	1/10/2025 12:10:23 PM
Supervise By	Mohan Bera	Supervise On	1/16/2025 1:30:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636
ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	
LCS Standard	MP83669
Chk Standard	MP83635,MP83634

53	P5388-05DL	MH2D38	SAM	01/06/25 17:58	2X For INT_STD 209Bi(1), Still Fail So Report From Original, 2X For As, Pb, Still Pb High	Jaswal	Dilution
54	P5388-06DL	MH2D41	SAM	01/06/25 18:01	2X For Pb	Jaswal	Confirms
55	P5388-07DL	MH2D44	SAM	01/06/25 18:04	2X For As, Pb, Still High, 2X For INT_STD 209Bi(1), Still Fail So Report From Original	Jaswal	Dilution
56	P5388-08DL	MH2D47	SAM	01/06/25 18:07	INT_STD 209Bi(1) Fail, 2X For As, Pb, Zn, Still Pb High	Jaswal	Dilution
57	P5388-09DL	MH2D50	SAM	01/06/25 18:10	2X For Pb, Still High, INT_STD 209Bi(1) Fail, So Report From Original	Jaswal	Dilution
58	P5388-10DL	MH2D53	SAM	01/06/25 18:13	2X For Pb	Jaswal	Confirms
59	P5388-11DL	MH2D56	SAM	01/06/25 18:16	2X For INT_STD 209Bi(1) Still Fail, 2X For As, Cu, Pb, Still As, Pb High	Jaswal	Dilution
60	P5388-03DL	MH2D32	SAM	01/06/25 18:19	4X For Pb	Jaswal	Confirms
61	P5388-04DL2	MH2D35	SAM	01/06/25 18:23	4X For Pb, Mn, Still Pb High, INT_STD 209Bi(1) Fail	Jaswal	Dilution
62	P5388-05DL2	MH2D38	SAM	01/06/25 18:26	4X For Pb	Jaswal	Confirms
63	CCV004	CCV004	CCV	01/06/25 18:29		Jaswal	OK
64	CCB004	CCB004	CCB	01/06/25 18:32		Jaswal	OK
65	P5388-01DL2	MH2D26	SAM	01/06/25 18:35	5X For Mn	Jaswal	Confirms
66	P5388-02DL2	MH2D29	SAM	01/06/25 18:38	5X For Pb, Mn, Still Pb High	Jaswal	Dilution

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134172

Review By	Sarabjit Jaswal	Review On	1/10/2025 12:10:23 PM
Supervise By	Mohan Bera	Supervise On	1/16/2025 1:30:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636
ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	
LCS Standard	MP83669
Chk Standard	MP83635,MP83634

67	P5388-07DL2	MH2D44	SAM	01/06/25 18:41	5X For As,Pb , Still Pb High , INT_STD 209Bi(1) Fail	Jaswal	Dilution
68	P5388-08DL2	MH2D47	SAM	01/06/25 18:44	Not Use	Jaswal	Not Ok
69	P5388-09DL2	MH2D50	SAM	01/06/25 18:47	Not Use	Jaswal	Not Ok
70	P5388-11DL2	MH2D56	SAM	01/06/25 18:51	INT_STD 209Bi(1) Fail,5X For As,Pb,Still Pb High	Jaswal	Dilution
71	P5388-14DL	MH2D65	SAM	01/06/25 18:54	5X For Mn	Jaswal	Confirms
72	P5388-15DL	MH2D68	SAM	01/06/25 18:57	5X For Pb,Mn,Zn	Jaswal	Confirms
73	P5388-04DL3	MH2D35	SAM	01/06/25 19:00	8X For Pb , 8X For INT_STD 209Bi(1) Still Fail	Jaswal	Dilution
74	P5388-02DL3	MH2D29	SAM	01/06/25 19:03	10X For Pb	Jaswal	Confirms
75	P5388-07DL3	MH2D44	SAM	01/06/25 19:09	10X For Pb , 10X For INT_STD 209Bi(1) Still Fail	Jaswal	Dilution
76	P5388-08DL3	MH2D47	SAM	01/06/25 19:12	10X For Pb , 10X For INT_STD 209Bi(1) Still Fail	Jaswal	Dilution
77	P5388-09DL3	MH2D50	SAM	01/06/25 19:15	10X For Pb	Jaswal	Confirms
78	P5388-11DL3	MH2D56	SAM	01/06/25 19:19	20X For Pb , 20X For INT_STD 209Bi(1) Still fail	Jaswal	Dilution
79	CCV005	CCV005	CCV	01/06/25 19:22		Jaswal	OK
80	CCB005	CCB005	CCB	01/06/25 19:25		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134288

Review By	Sarabjit Jaswal	Review On	1/15/2025 2:36:46 AM
Supervise By	Mohan Bera	Supervise On	1/17/2025 7:52:18 AM
STD. NAME	STD REF.#		
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073		
ICV Standard	MP84051		
CCV Standard	MP84052		
ICSA Standard	MP84053,MP84054		
CRI Standard			
LCS Standard			
Chk Standard	MP84057,MP84056		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE002	TUNE	01/14/25 11:40		Jaswal	OK
2	S00	S0	CAL1	01/14/25 12:27		Jaswal	OK
3	S02	S02	CAL3	01/14/25 12:34		Jaswal	OK
4	S03	S03	CAL4	01/14/25 12:37		Jaswal	OK
5	S04	S04	CAL5	01/14/25 12:40		Jaswal	OK
6	S05	S05	CAL6	01/14/25 12:43		Jaswal	OK
7	S06	S06	CAL7	01/14/25 12:46		Jaswal	OK
8	S07	S07	CAL8	01/14/25 12:49		Jaswal	OK
9	S08	S08	CAL9	01/14/25 12:51		Jaswal	OK
10	ICV002	ICV002	ICV	01/14/25 14:46	Inst. paused for Calibration review	Jaswal	OK
11	ICB002	ICB002	ICB	01/14/25 14:53	Inst. paused for review	Jaswal	OK
12	ICSA002	ICSA002	ICSA	01/14/25 14:56		Jaswal	OK
13	ICSAB002	ICSAB002	ICSAB	01/14/25 14:59		Jaswal	OK
14	CCV006	CCV006	CCV	01/14/25 15:02		Jaswal	OK
15	CCB006	CCB006	CCB	01/14/25 15:05		Jaswal	OK
16	P5388-04DL	MH2D35	SAM	01/14/25 15:52	16X For INT_STD 209Bi(1)	Jaswal	Confirms
17	P5388-07DL	MH2D44	SAM	01/14/25 15:55	20X For INT_STD 209Bi(1)	Jaswal	Confirms
18	P5388-08DL	MH2D47	SAM	01/14/25 15:58	20X For INT_STD 209Bi(1)	Jaswal	Confirms

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134288

Review By	Sarabjit Jaswal	Review On	1/15/2025 2:36:46 AM
Supervise By	Mohan Bera	Supervise On	1/17/2025 7:52:18 AM
STD. NAME	STD REF.#		
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073		
ICV Standard	MP84051		
CCV Standard	MP84052		
ICSA Standard	MP84053,MP84054		
CRI Standard			
LCS Standard			
Chk Standard	MP84057,MP84056		

19	P5388-10DL	MH2D53	SAM	01/14/25 16:01	Not Use	Jaswal	Not Ok
20	P5388-11DL	MH2D56	SAM	01/14/25 16:07	Not Use	Jaswal	Not Ok
21	P5388-11DL2	MH2D56	SAM	01/14/25 16:11	40X For INT_STD 209Bi(1)	Jaswal	Confirms
22	CCV007	CCV007	CCV	01/14/25 16:14		Jaswal	OK
23	CCB007	CCB007	CCB	01/14/25 16:17		Jaswal	OK