

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MC0AM2

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

Lab Code: ACE Case No.: 51948 MA No. : SDG No.: MC0B00

Matrix: Water Lab Sample ID: Q1089-08

% Solids: Date Received: 01/17/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	1200		01/24/2025	1355
7440-36-0	Antimony	2.0	U	01/24/2025	1355
7440-38-2	Arsenic	0.43	J	01/24/2025	1355
7440-39-3	Barium	92		01/24/2025	1355
7440-41-7	Beryllium	0.19	J	01/24/2025	1355
7440-43-9	Cadmium	1.0	U	01/24/2025	1355
7440-70-2	Calcium	24000		01/24/2025	1355
7440-47-3	Chromium	6.4		01/24/2025	1355
7440-48-4	Cobalt	1.4		01/24/2025	1355
7440-50-8	Copper	1.1	J	01/24/2025	1355
7439-89-6	Iron	1400		01/24/2025	1355
7439-92-1	Lead	0.66	J	01/24/2025	1355
7439-95-4	Magnesium	17000		01/24/2025	1355
7439-96-5	Manganese	15		01/24/2025	1355
7440-02-0	Nickel	1.7		01/24/2025	1355
7440-09-7	Potassium	3500		01/24/2025	1355
7782-49-2	Selenium	4.0	J	01/24/2025	1355
7440-22-4	Silver	1.0	U	01/24/2025	1355
7440-23-5	Sodium	23000		01/24/2025	1355
7440-28-0	Thallium	1.0	U	01/24/2025	1355
7440-62-2	Vanadium	2.1	J	01/24/2025	1355
7440-66-6	Zinc	5.3		01/24/2025	1355

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

MC0B00

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

Lab Code: ACE Case No.: 51948 MA No. : SDG No.: MC0B00

Matrix: Water Lab Sample ID: Q1089-01

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14	J	01/24/2025	1329
7440-36-0	Antimony	2.0	U	01/24/2025	1329
7440-38-2	Arsenic	0.26	J	01/24/2025	1329
7440-39-3	Barium	120		01/24/2025	1329
7440-41-7	Beryllium	0.42	J	01/24/2025	1329
7440-43-9	Cadmium	0.98	J	01/24/2025	1329
7440-70-2	Calcium	47000		01/24/2025	1329
7440-47-3	Chromium	4.9		01/24/2025	1329
7440-48-4	Cobalt	2.0		01/24/2025	1329
7440-50-8	Copper	2.0	U	01/24/2025	1329
7439-89-6	Iron	18	J	01/24/2025	1329
7439-92-1	Lead	0.42	J	01/24/2025	1329
7439-95-4	Magnesium	25000		01/24/2025	1329
7439-96-5	Manganese	1600		01/24/2025	1329
7440-02-0	Nickel	9.9		01/24/2025	1329
7440-09-7	Potassium	4700		01/24/2025	1329
7782-49-2	Selenium	3.6	J	01/24/2025	1329
7440-22-4	Silver	1.0	U	01/24/2025	1329
7440-23-5	Sodium	67000		01/24/2025	1329
7440-28-0	Thallium	0.53	J	01/24/2025	1329
7440-62-2	Vanadium	5.0	U	01/24/2025	1329
7440-66-6	Zinc	9.9		01/24/2025	1329

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

Comments:

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MC0B07

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

Lab Code: ACE Case No.: 51948 MA No. : SDG No.: MC0B00

Matrix: Water Lab Sample ID: Q1089-06

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	01/24/2025	1349
7440-36-0	Antimony	2.0	U	01/24/2025	1349
7440-38-2	Arsenic	1.0	U	01/24/2025	1349
7440-39-3	Barium	10	U	01/24/2025	1349
7440-41-7	Beryllium	1.0	U	01/24/2025	1349
7440-43-9	Cadmium	1.0	U	01/24/2025	1349
7440-70-2	Calcium	500	U	01/24/2025	1349
7440-47-3	Chromium	0.59	J	01/24/2025	1349
7440-48-4	Cobalt	1.0	U	01/24/2025	1349
7440-50-8	Copper	2.0	U	01/24/2025	1349
7439-89-6	Iron	15	J	01/24/2025	1349
7439-92-1	Lead	1.0	U	01/24/2025	1349
7439-95-4	Magnesium	500	U	01/24/2025	1349
7439-96-5	Manganese	9.0		01/24/2025	1349
7440-02-0	Nickel	0.26	J	01/24/2025	1349
7440-09-7	Potassium	500	U	01/24/2025	1349
7782-49-2	Selenium	5.0	U	01/24/2025	1349
7440-22-4	Silver	1.0	U	01/24/2025	1349
7440-23-5	Sodium	500	U	01/24/2025	1349
7440-28-0	Thallium	1.0	U	01/24/2025	1349
7440-62-2	Vanadium	5.0	U	01/24/2025	1349
7440-66-6	Zinc	3.8	J	01/24/2025	1349

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

Comments:

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MC0B09

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

Lab Code: ACE Case No.: 51948 MA No. : SDG No.: MC0B00

Matrix: Water Lab Sample ID: Q1089-12

% Solids: Date Received: 01/17/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	37		01/24/2025	1408
7440-36-0	Antimony	2.0	U	01/24/2025	1408
7440-38-2	Arsenic	0.25	J	01/24/2025	1408
7440-39-3	Barium	180		01/24/2025	1408
7440-41-7	Beryllium	0.88	J	01/24/2025	1408
7440-43-9	Cadmium	0.39	J	01/24/2025	1408
7440-70-2	Calcium	24000		01/24/2025	1408
7440-47-3	Chromium	0.66	J	01/24/2025	1408
7440-48-4	Cobalt	3.3		01/24/2025	1408
7440-50-8	Copper	1.4	J	01/24/2025	1408
7439-89-6	Iron	23	J	01/24/2025	1408
7439-92-1	Lead	0.22	J	01/24/2025	1408
7439-95-4	Magnesium	14000		01/24/2025	1408
7439-96-5	Manganese	200		01/24/2025	1408
7440-02-0	Nickel	1.4		01/24/2025	1408
7440-09-7	Potassium	3400		01/24/2025	1408
7782-49-2	Selenium	2.8	J	01/24/2025	1408
7440-22-4	Silver	1.0	U	01/24/2025	1408
7440-23-5	Sodium	56000		01/24/2025	1408
7440-28-0	Thallium	1.0	U	01/24/2025	1408
7440-62-2	Vanadium	0.29	J	01/24/2025	1408
7440-66-6	Zinc	18		01/24/2025	1408

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

Comments:

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MC0B10

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

Lab Code: ACE Case No.: 51948 MA No. : SDG No.: MC0B00

Matrix: Water Lab Sample ID: Q1089-13

% Solids: Date Received: 01/17/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	01/24/2025	1412
7440-36-0	Antimony	2.0	U	01/24/2025	1412
7440-38-2	Arsenic	1.0	U	01/24/2025	1412
7440-39-3	Barium	10	U	01/24/2025	1412
7440-41-7	Beryllium	1.0	U	01/24/2025	1412
7440-43-9	Cadmium	1.0	U	01/24/2025	1412
7440-70-2	Calcium	500	U	01/24/2025	1412
7440-47-3	Chromium	0.62	J	01/24/2025	1412
7440-48-4	Cobalt	1.0	U	01/24/2025	1412
7440-50-8	Copper	2.0	U	01/24/2025	1412
7439-89-6	Iron	200	U	01/24/2025	1412
7439-92-1	Lead	1.0	U	01/24/2025	1412
7439-95-4	Magnesium	500	U	01/24/2025	1412
7439-96-5	Manganese	1.4		01/24/2025	1412
7440-02-0	Nickel	0.27	J	01/24/2025	1412
7440-09-7	Potassium	500	U	01/24/2025	1412
7782-49-2	Selenium	5.0	U	01/24/2025	1412
7440-22-4	Silver	1.0	U	01/24/2025	1412
7440-23-5	Sodium	500	U	01/24/2025	1412
7440-28-0	Thallium	1.0	U	01/24/2025	1412
7440-62-2	Vanadium	5.0	U	01/24/2025	1412
7440-66-6	Zinc	1.2	J	01/24/2025	1412

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

Comments:

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MC0B11

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

Lab Code: ACE Case No.: 51948 MA No. : SDG No.: MC0B00

Matrix: Water Lab Sample ID: Q1089-14

% Solids: Date Received: 01/17/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	01/24/2025	1415
7440-36-0	Antimony	2.0	U	01/24/2025	1415
7440-38-2	Arsenic	1.0	U	01/24/2025	1415
7440-39-3	Barium	10	U	01/24/2025	1415
7440-41-7	Beryllium	1.0	U	01/24/2025	1415
7440-43-9	Cadmium	1.0	U	01/24/2025	1415
7440-70-2	Calcium	500	U	01/24/2025	1415
7440-47-3	Chromium	0.65	J	01/24/2025	1415
7440-48-4	Cobalt	1.0	U	01/24/2025	1415
7440-50-8	Copper	2.0	U	01/24/2025	1415
7439-89-6	Iron	200	U	01/24/2025	1415
7439-92-1	Lead	1.0	U	01/24/2025	1415
7439-95-4	Magnesium	500	U	01/24/2025	1415
7439-96-5	Manganese	3.5		01/24/2025	1415
7440-02-0	Nickel	0.27	J	01/24/2025	1415
7440-09-7	Potassium	500	U	01/24/2025	1415
7782-49-2	Selenium	5.0	U	01/24/2025	1415
7440-22-4	Silver	1.0	U	01/24/2025	1415
7440-23-5	Sodium	260	J	01/24/2025	1415
7440-28-0	Thallium	1.0	U	01/24/2025	1415
7440-62-2	Vanadium	5.0	U	01/24/2025	1415
7440-66-6	Zinc	5.0	U	01/24/2025	1415

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

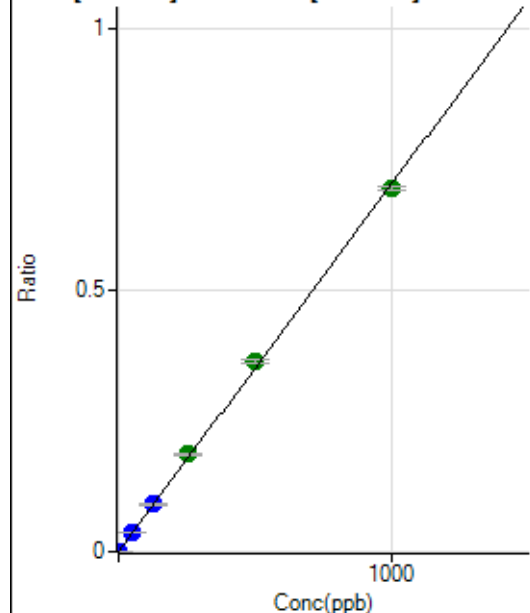
Comments:

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012425MS.b\
Analysis File: P8012425MS.batch.bin
DA Date-Time: 2025-01-27 13:39:48
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-24 09:47:03
2	006CALS.d	S02	2025-01-24 09:53:49
3	007CALB.d	S03	2025-01-24 09:57:11
4	008CALS.d	S04	2025-01-24 10:00:22
5	009CALS.d	S05	2025-01-24 10:03:22
6	010CALS.d	S06	2025-01-24 10:06:18
7	011CALS.d	S07	2025-01-24 10:09:07
8	012CALS.d	S08	2025-01-24 10:11:54

Calibration for 143AREF.d

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	194.15	0.0000	P	12.3
2	☐	1.000	0.957	4630.58	0.0007	P	3.1
3	☐	50.000	51.794	239453.78	0.0365	P	1.3
4	☐	125.000	128.318	585773.95	0.0903	P	1.8
5	☐	250.000	264.982	1192890.01	0.1864	A	1.1
6	☐	500.000	517.647	2305054.37	0.3641	A	2.1
7	☐	1000.000	986.927	4301065.78	0.6942	A	1.0
8	☐			1128.24	0.0002	P	7.8

$$y = 7.0338E-004 * x + 3.0237E-005$$

R = 0.9996

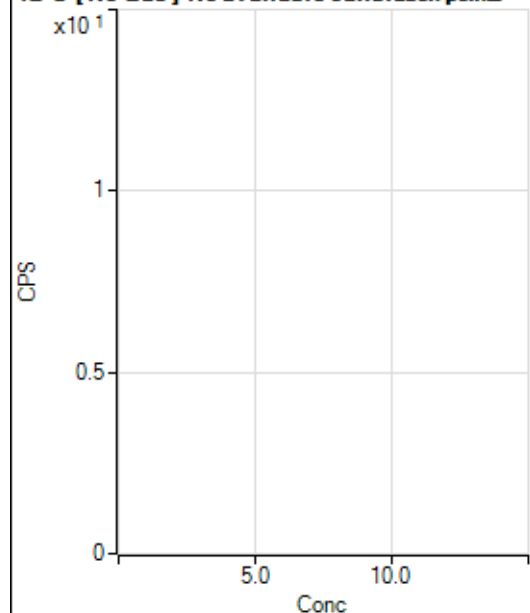
DL = 0.01587

BEC = 0.04299

Weight: <None>

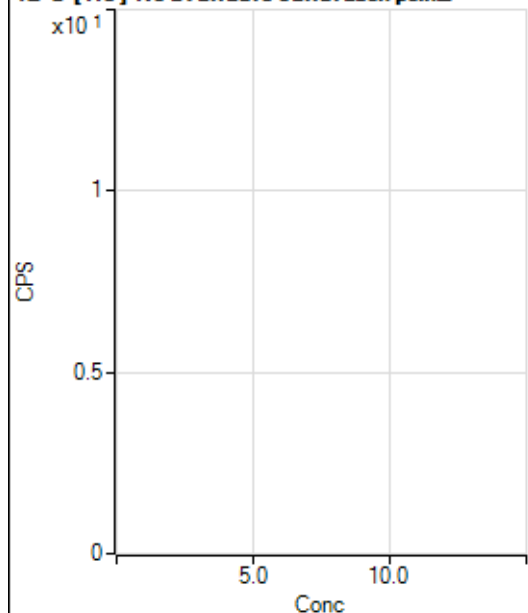
Min Conc: 0

12 C [No Gas] No available calibration points



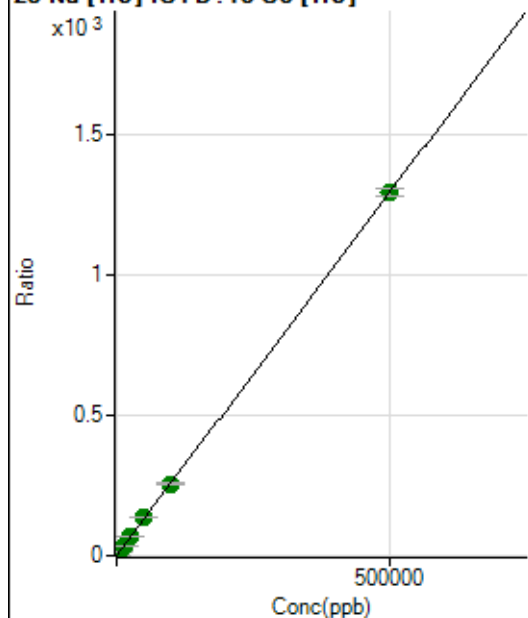
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2778769.33		A	0.8
2	☐			2780550.62		A	1.1
3	☐			2905477.11		A	0.5
4	☐			2980703.91		A	1.6
5	☐			3052401.20		A	1.3
6	☐			3129602.04		A	1.3
7	☐			3209613.80		A	1.8
8	☐			2608195.73		A	1.2

12 C [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			18940.07		P	1.1
2	☐			18764.27		P	1.2
3	☐			20477.68		P	1.7
4	☐			20691.33		P	1.9
5	☐			21489.14		P	0.7
6	☐			22624.17		P	2.0
7	☐			24576.17		P	0.5
8	☐			22734.37		P	0.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19009.14	0.1289	P	2.3
2	☐	500.000	486.290	201129.25	1.3852	P	0.9
3	☐	5000.000	5418.460	2057603.27	14.1275	A	0.1
4	☐	12500.000	13458.158	5022750.17	34.8980	A	4.0
5	☐	25000.000	26358.919	10017577.91	68.2271	A	0.5
6	☐	50000.000	52248.312	19927677.76	135.1123	A	1.0
7	☐	100000.00	99297.883	37919527.49	256.6647	A	0.4
8	☐	500000.00	499819.52	154960911.0	1,291.411	A	2.0

$$y = 0.0026 * x + 0.1289$$

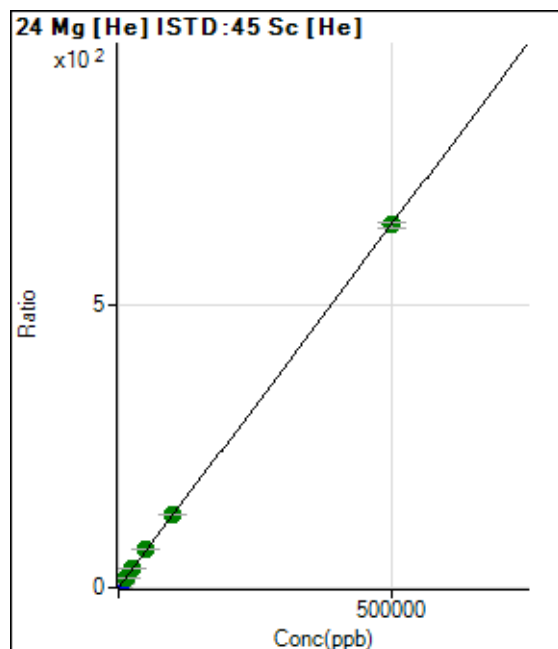
$$R = 1.0000$$

$$DL = 3.415$$

$$BEC = 49.9$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	491.13	0.0033	P	11.6
2	☐	500.000	509.782	95280.62	0.6562	P	1.0
3	☐	5000.000	5403.056	1008328.79	6.9232	P	0.0
4	☐	12500.000	13960.811	2573401.00	17.8833	A	4.6
5	☐	25000.000	26800.559	5040203.29	34.3275	A	0.3
6	☐	50000.000	52918.220	9996110.82	67.7771	A	1.4
7	☐	100000.00	100506.20	19018254.30	128.7242	A	0.5
8	☐	500000.00	499476.34	76760749.41	639.6957	A	1.8

$$y = 0.0013 * x + 0.0033$$

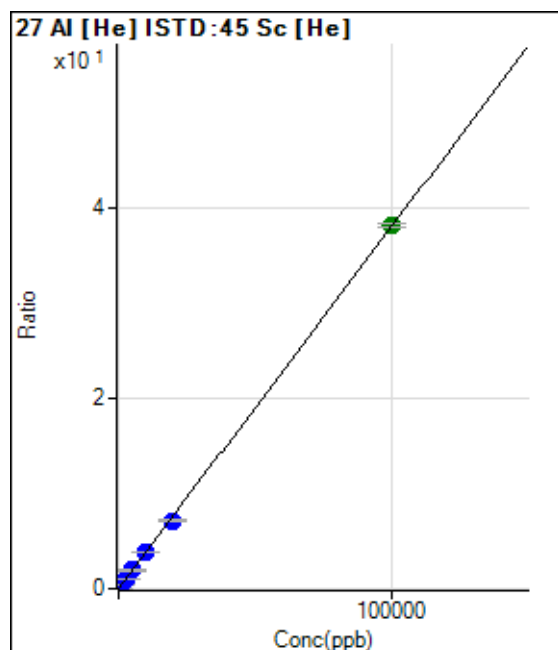
$$R = 1.0000$$

$$DL = 0.9046$$

$$BEC = 2.601$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0005	P	20.3
2	☐	20.000	18.338	1092.27	0.0075	P	4.3
3	☐	1000.000	1034.131	57357.99	0.3938	P	0.6
4	☐	2500.000	2619.637	143475.69	0.9968	P	3.4
5	☐	5000.000	5049.015	282003.48	1.9206	P	0.4
6	☐	10000.000	9957.713	558587.93	3.7873	P	1.2
7	☐	20000.000	18856.440	1059464.12	7.1714	P	1.0
8	☐	100000.00	100227.15	4574079.93	38.1157	A	1.2

$$y = 3.8029E-004 * x + 5.4949E-004$$

$$R = 0.9999$$

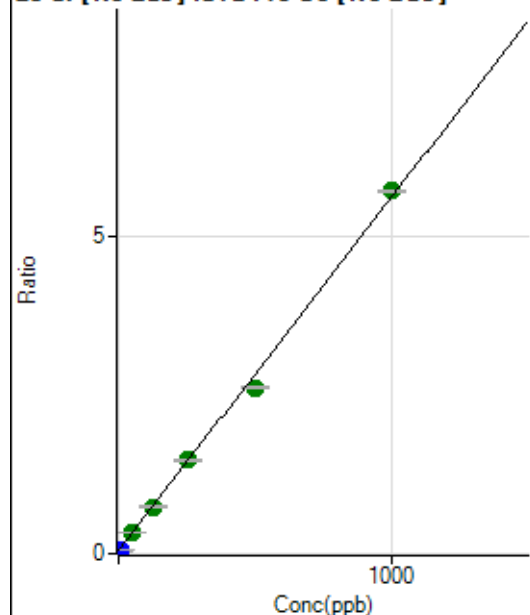
$$DL = 0.8814$$

$$BEC = 1.445$$

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	402796.52	0.0487	P	13.8
2	☐	10.000	0.988	456963.25	0.0542	P	1.1
3	☐	50.000	52.376	2851908.19	0.3405	A	1.5
4	☐	125.000	124.478	6388099.90	0.7421	A	1.3
5	☐	250.000	255.530	12515344.12	1.4722	A	1.1
6	☐	500.000	461.342	22578214.67	2.6188	A	1.4
7	☐	1000.000	1017.983	49311826.49	5.7198	A	0.7
8	☐			491463.60	0.0693	P	3.1

$$y = 0.0056 * x + 0.0487$$

$$R = 0.9989$$

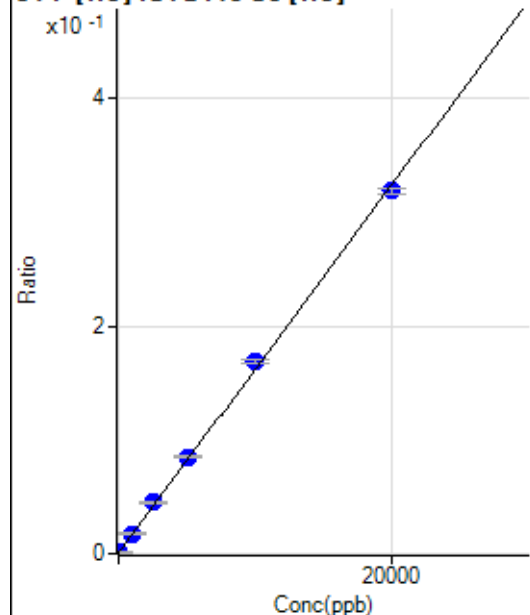
$$DL = 3.62$$

$$BEC = 8.736$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-17.656	45.55	0.0003	P	7.9
2	☐	0.000	17.656	127.78	0.0009	P	12.5
3	☐	1000.000	1053.872	2568.03	0.0176	P	3.5
4	☐	2500.000	2738.625	6458.17	0.0449	P	4.0
5	☐	5000.000	5241.321	12531.05	0.0853	P	1.6
6	☐	10000.000	10424.610	24949.28	0.1691	P	1.5
7	☐	20000.000	19694.843	47136.29	0.3190	P	1.5
8	☐			52.22	0.0004	P	27.2

$$y = 1.6169E-005 * x + 5.9431E-004$$

$$R = 0.9995$$

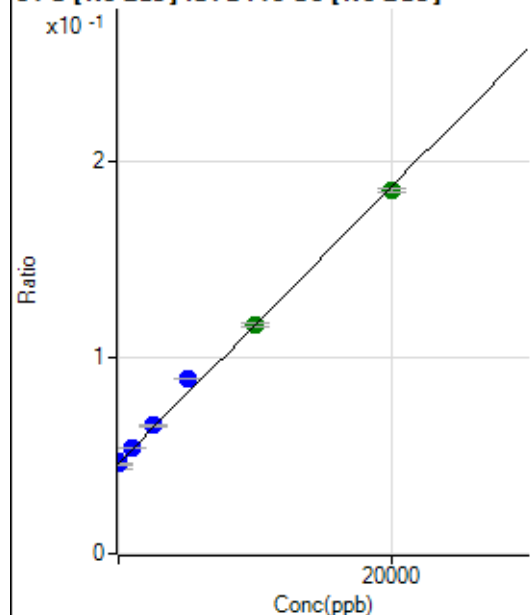
$$DL = 12.47$$

$$BEC = 36.76$$

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	75.776	387232.25	0.0468	P	13.7
2	☐	0.000	-75.776	385602.73	0.0457	P	0.7
3	☐	1000.000	1119.982	453498.13	0.0541	P	0.6
4	☐	2500.000	2731.195	563768.03	0.0655	P	1.0
5	☐	5000.000	6081.176	757468.62	0.0891	P	0.8
6	☐	10000.000	10033.579	1008325.84	0.1170	A	1.6
7	☐	20000.000	19678.018	1594157.25	0.1849	A	1.1
8	☐			310284.25	0.0437	P	0.9

$$y = 7.0471E-006 * x + 0.0462$$

R = 0.9983

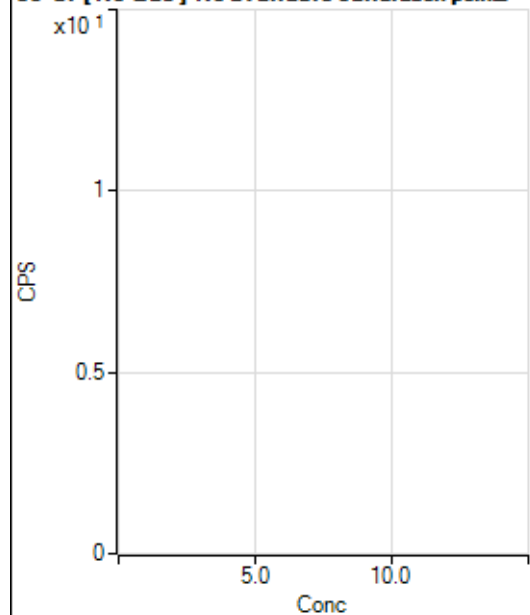
DL = 1432

BEC = 6563

Weight: <None>

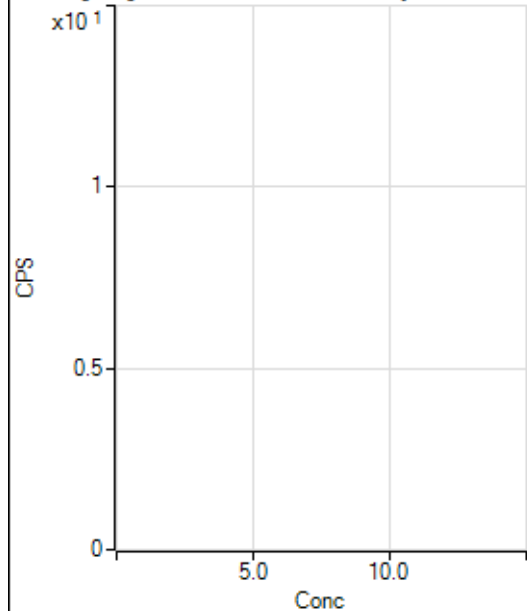
Min Conc: 0

35 Cl [No Gas] No available calibration points



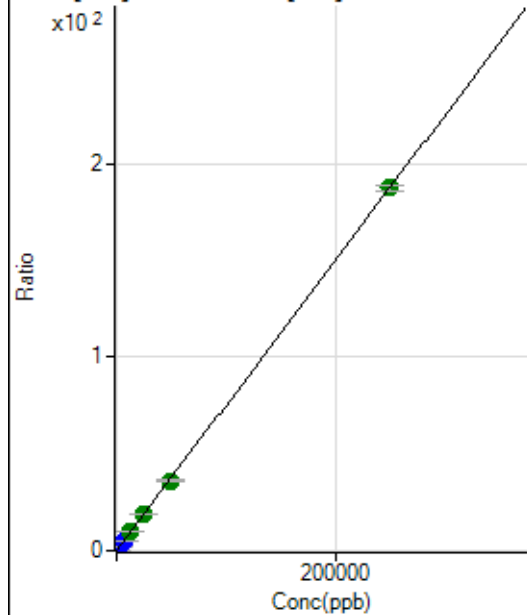
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63841.96		P	1.0
2	☐			56592.31		P	1.3
3	☐			70373.13		P	1.5
4	☐			74174.19		P	1.1
5	☐			79946.81		P	1.6
6	☐			88672.59		P	2.7
7	☐			95403.96		P	2.7
8	☐			58531.05		P	0.7

35 Cl [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			252.23		P	6.0
2	☐			214.45		P	11.5
3	☐			284.45		P	5.8
4	☐			330.01		P	8.3
5	☐			306.67		P	5.4
6	☐			420.01		P	10.7
7	☐			465.57		P	11.5
8	☐			282.23		P	5.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6653.80	0.0451	P	2.2
2	☐	500.000	464.686	57097.92	0.3932	P	0.6
3	☐	2500.000	2493.249	278615.21	1.9130	P	0.7
4	☐	6250.000	6301.937	686108.52	4.7664	P	3.3
5	☐	12500.000	12763.125	1410577.34	9.6069	A	0.2
6	☐	25000.000	25470.434	2821010.20	19.1269	A	1.2
7	☐	50000.000	48301.474	5352944.99	36.2312	A	1.4
8	☐	250000.00	250278.34	22506079.66	187.5467	A	1.4

$$y = 7.4917E-004 * x + 0.0451$$

$$R = 1.0000$$

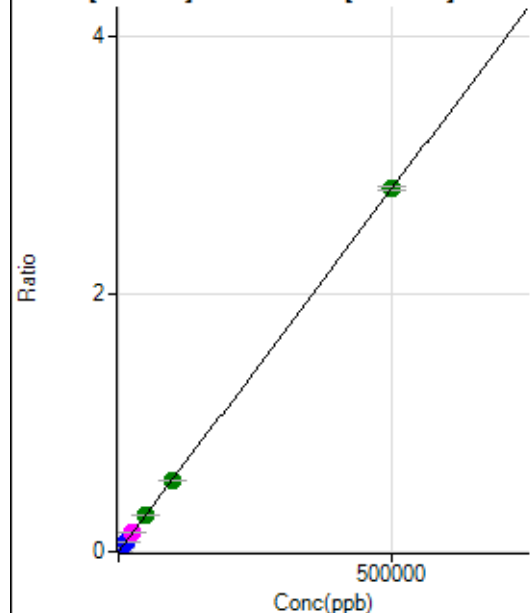
$$DL = 3.956$$

$$BEC = 60.22$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	406.68	0.0000	P	9.3
2	☐	500.000	476.764	23064.13	0.0027	P	1.7
3	☐	5000.000	5149.832	243389.24	0.0291	P	0.7
4	☐	12500.000	12439.338	603490.59	0.0701	P	1.8
5	☐	25000.000	25785.606	1234950.15	0.1453	M	3.1
6	☐	50000.000	50799.998	2467246.96	0.2862	A	2.4
7	☐	100000.00	98658.490	4790824.90	0.5557	A	1.5
8	☐	500000.00	500149.06	19986281.51	2.8171	A	0.9

$$y = 5.6325E-006 * x + 4.8945E-005$$

$$R = 1.0000$$

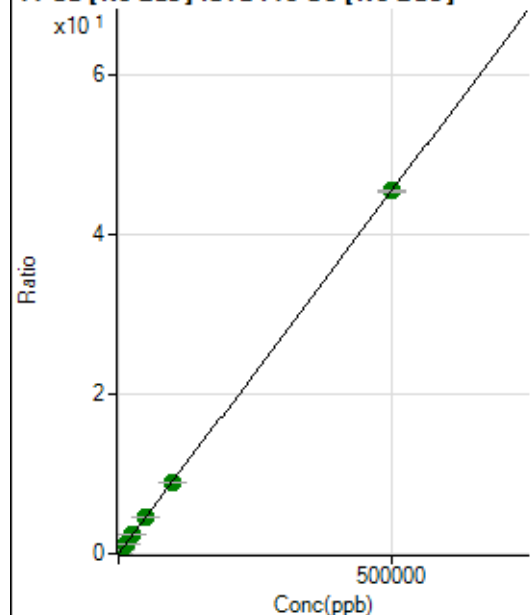
$$DL = 2.435$$

$$BEC = 8.69$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9561.04	0.0012	P	11.2
2	☐	500.000	479.997	377833.74	0.0448	P	1.0
3	☐	5000.000	5233.594	3995415.70	0.4770	A	0.6
4	☐	12500.000	12632.963	9896082.56	1.1497	A	1.7
5	☐	25000.000	25681.464	19858599.98	2.3360	A	1.2
6	☐	50000.000	50652.515	39712625.80	4.6063	A	1.8
7	☐	100000.00	98434.992	77164102.74	8.9506	A	0.4
8	☐	500000.00	500208.03	322631584.0	45.4788	A	0.5

$$y = 9.0917E-005 * x + 0.0012$$

$$R = 1.0000$$

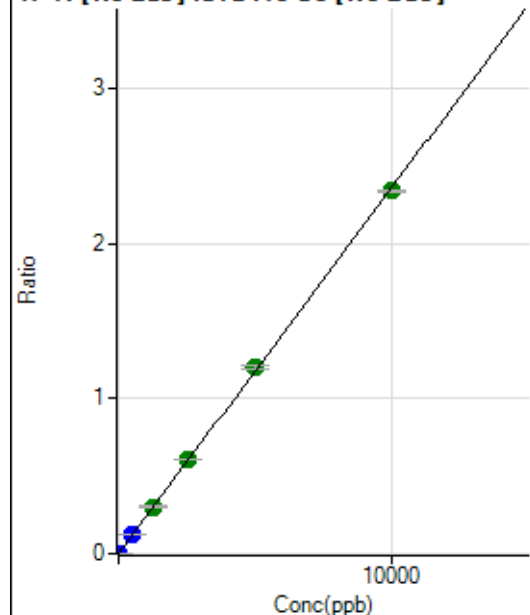
$$DL = 4.267$$

$$BEC = 12.68$$

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	113.34	0.0000	P	21.2
2	☐	5.000	4.775	9604.40	0.0011	P	1.1
3	☐	500.000	514.748	1015919.63	0.1213	P	0.0
4	☐	1250.000	1285.406	2606424.91	0.3028	A	2.8
5	☐	2500.000	2577.547	5162072.80	0.6072	A	1.3
6	☐	5000.000	5106.485	10371465.33	1.2030	A	1.7
7	☐	10000.000	9922.208	20151539.56	2.3375	A	0.8
8	☐			6512.66	0.0009	P	2.4

$$y = 2.3558E-004 * x + 1.3775E-005$$

$$R = 0.9999$$

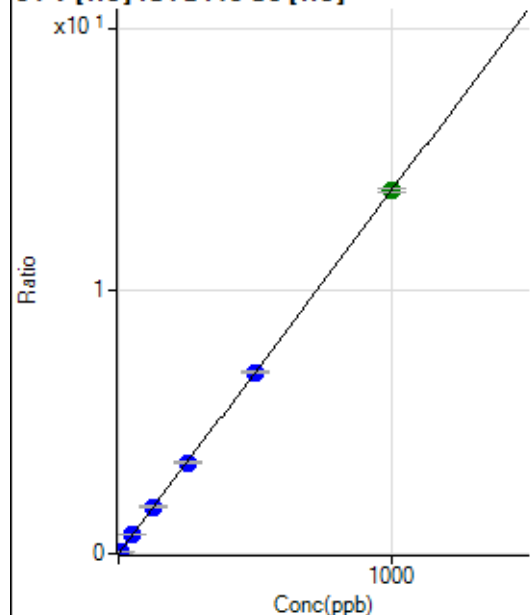
$$DL = 0.03713$$

$$BEC = 0.05847$$

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	11.11	0.0001	P	46.9
2	☐	5.000	4.657	9346.46	0.0644	P	2.3
3	☐	50.000	50.652	101859.97	0.6994	P	0.7
4	☐	125.000	128.250	254862.68	1.7706	P	3.5
5	☐	250.000	250.823	508424.02	3.4628	P	0.7
6	☐	500.000	499.940	1017965.07	6.9020	P	1.1
7	☐	1000.000	999.387	2038384.66	13.7971	A	1.1
8	☐			508.90	0.0042	P	9.1

$$y = 0.0138 * x + 7.5593E-005$$

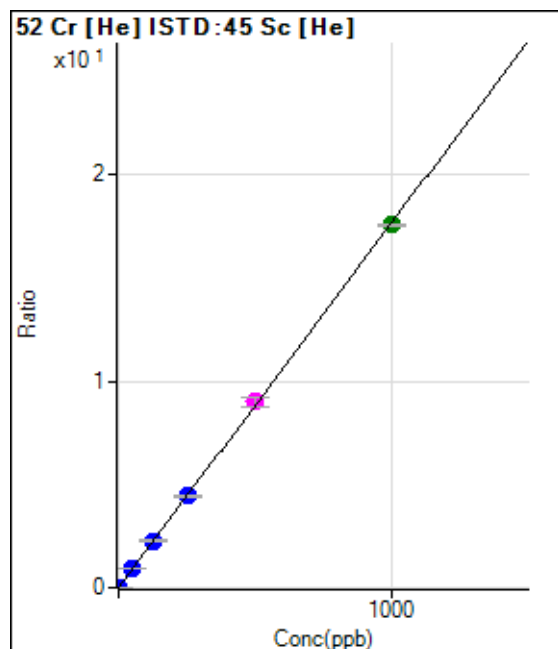
$$R = 1.0000$$

$$DL = 0.007701$$

$$BEC = 0.005476$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	590.02	0.0040	P	4.5
2	☐	2.000	1.863	5355.49	0.0369	P	0.3
3	☐	50.000	51.272	132374.06	0.9089	P	0.5
4	☐	125.000	128.212	326325.52	2.2668	P	2.9
5	☐	250.000	250.895	650717.01	4.4320	P	1.1
6	☐	500.000	508.804	1324677.77	8.9838	M	5.2
7	☐	1000.000	994.910	2594727.44	17.5629	A	0.3
8	☐			4305.18	0.0359	P	24.9

$$y = 0.0176 * x + 0.0040$$

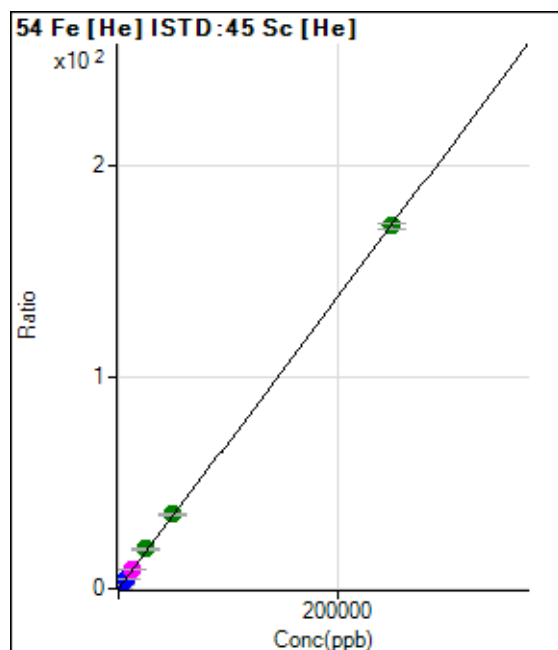
$$R = 0.9999$$

$$DL = 0.0304$$

$$BEC = 0.2267$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	295.56	0.0020	P	19.4
2	☐	50.000	51.620	5448.86	0.0375	P	1.2
3	☐	2500.000	2711.826	272109.05	1.8683	P	0.5
4	☐	6250.000	6799.359	673816.07	4.6814	P	3.6
5	☐	12500.000	13408.099	1355145.76	9.2296	M	2.3
6	☐	25000.000	27124.729	2753504.99	18.6696	A	1.3
7	☐	50000.000	51098.056	5195436.66	35.1683	A	1.1
8	☐	250000.00	249506.65	20605865.53	171.7155	A	1.8

$$y = 6.8821E-004 * x + 0.0020$$

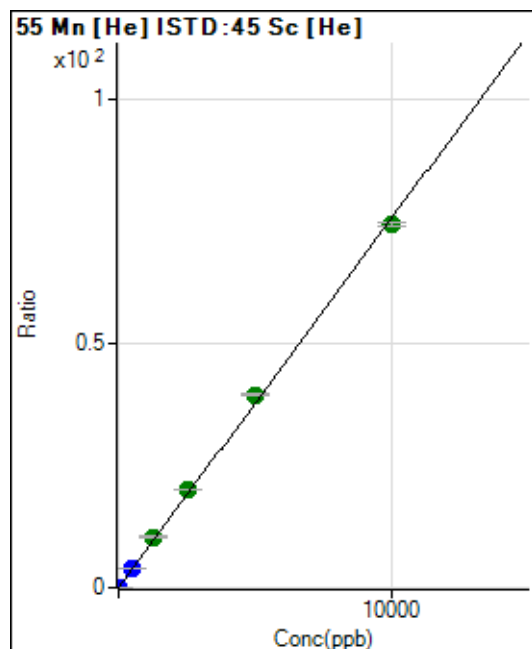
$$R = 1.0000$$

$$DL = 1.698$$

$$BEC = 2.91$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0012	P	20.5
2	☐	1.000	0.971	1233.40	0.0085	P	6.5
3	☐	500.000	513.242	565521.39	3.8830	P	0.8
4	☐	1250.000	1374.894	1496312.74	10.3999	A	5.2
5	☐	2500.000	2672.137	2967538.85	20.2113	A	0.6
6	☐	5000.000	5225.512	5829157.48	39.5232	A	1.4
7	☐	10000.000	9827.936	10981485.81	74.3327	A	1.0
8	☐			4003.93	0.0333	P	5.8

$$y = 0.0076 * x + 0.0012$$

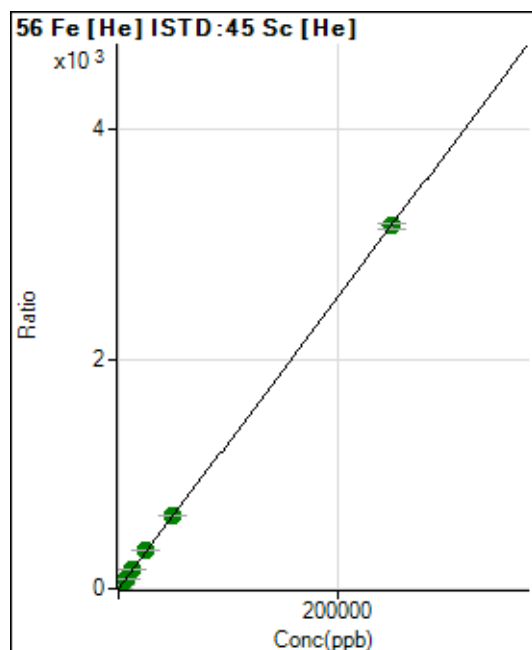
$$R = 0.9994$$

$$DL = 0.09374$$

$$BEC = 0.1523$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4658.59	0.0316	P	1.4
2	☐	50.000	51.179	98702.79	0.6798	P	0.5
3	☐	2500.000	2744.480	5066842.94	34.7895	A	0.9
4	☐	6250.000	6905.969	12593415.23	87.4933	A	3.6
5	☐	12500.000	13377.364	24879031.30	169.4514	A	1.2
6	☐	25000.000	26502.702	49506472.60	335.6793	A	1.7
7	☐	50000.000	50072.209	93686560.83	634.1790	A	1.3
8	☐	250000.00	249772.57	379614585.4	3,163.316	A	1.4

$$y = 0.0127 * x + 0.0316$$

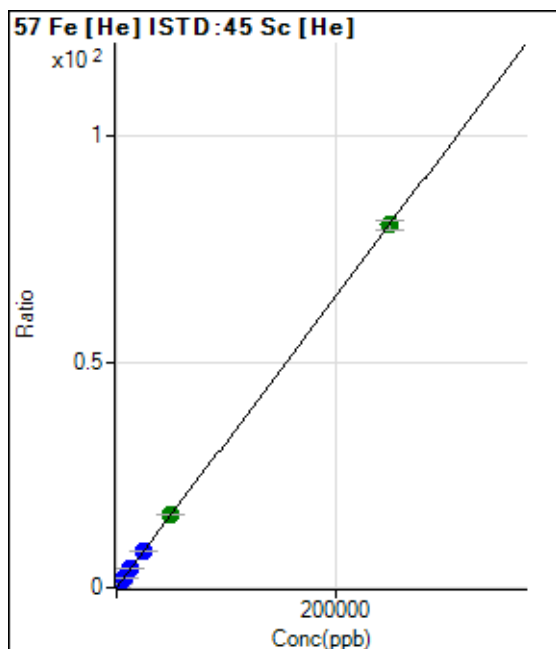
$$R = 1.0000$$

$$DL = 0.1017$$

$$BEC = 2.495$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0009	P	7.1
2	☐	50.000	50.038	2463.57	0.0170	P	7.2
3	☐	2500.000	2630.907	123445.25	0.8476	P	0.5
4	☐	6250.000	6647.096	308052.24	2.1401	P	3.5
5	☐	12500.000	12856.255	607613.58	4.1384	P	1.0
6	☐	25000.000	25346.834	1203242.04	8.1583	P	1.3
7	☐	50000.000	50301.876	2391617.93	16.1897	A	1.9
8	☐	250000.00	249875.89	9649310.48	80.4191	A	2.5

$$y = 3.2183\text{E-}004 * x + 8.6694\text{E-}004$$

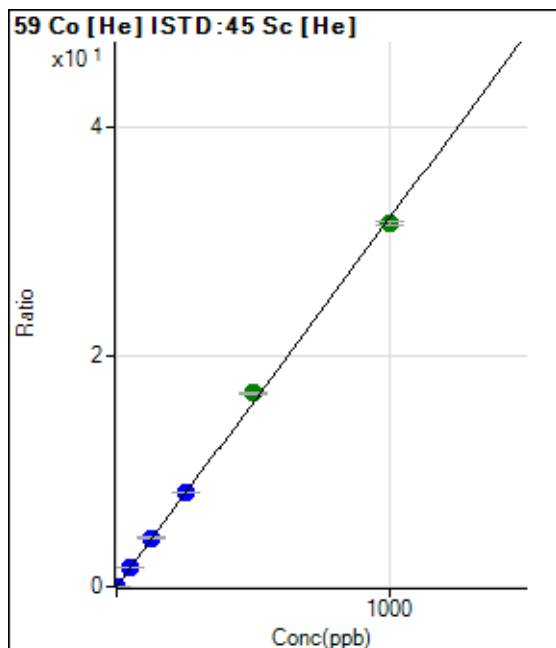
R = 1.0000

DL = 0.574

BEC = 2.694

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0007	P	19.0
2	☐	1.000	1.027	4880.88	0.0336	P	0.8
3	☐	50.000	52.457	244898.78	1.6815	P	0.5
4	☐	125.000	131.888	608320.64	4.2265	P	3.8
5	☐	250.000	256.506	1206807.98	8.2194	P	0.7
6	☐	500.000	525.017	2481250.92	16.8228	A	0.7
7	☐	1000.000	984.881	4661961.25	31.5573	A	1.1
8	☐			7837.79	0.0653	P	3.7

$$y = 0.0320 * x + 7.1674\text{E-}004$$

R = 0.9995

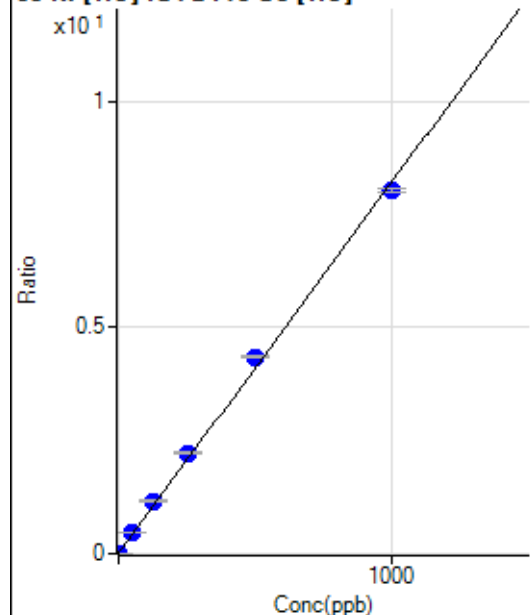
DL = 0.01278

BEC = 0.02237

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	1090.05	0.0074	P	6.2
2	☐	1.000	0.983	2243.53	0.0155	P	1.2
3	☐	50.000	56.348	68377.62	0.4695	P	1.3
4	☐	125.000	140.098	166469.97	1.1563	P	2.8
5	☐	250.000	270.873	327238.52	2.2288	P	0.8
6	☐	500.000	530.498	642737.24	4.3579	P	1.2
7	☐	1000.000	977.328	1185192.21	8.0223	P	1.0
8	☐			3049.24	0.0254	P	0.2

$$y = 0.0082 * x + 0.0074$$

R = 0.9990

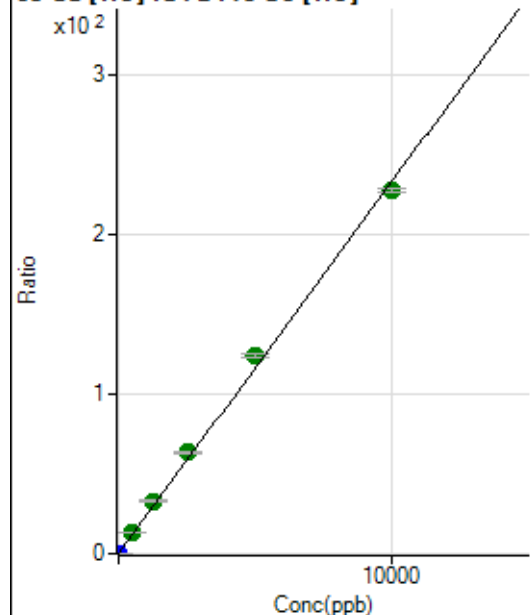
DL = 0.1689

BEC = 0.9015

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	3225.95	0.0219	P	5.3
2	☐	2.000	2.077	10200.42	0.0703	P	1.0
3	☐	500.000	557.471	1893749.87	13.0023	A	0.4
4	☐	1250.000	1406.266	4716668.44	32.7660	A	3.2
5	☐	2500.000	2721.027	9305736.53	63.3794	A	1.0
6	☐	5000.000	5316.702	18260416.81	123.8183	A	2.0
7	☐	10000.000	9763.985	33590496.72	227.3707	A	0.9
8	☐			7522.06	0.0627	P	3.2

$$y = 0.0233 * x + 0.0219$$

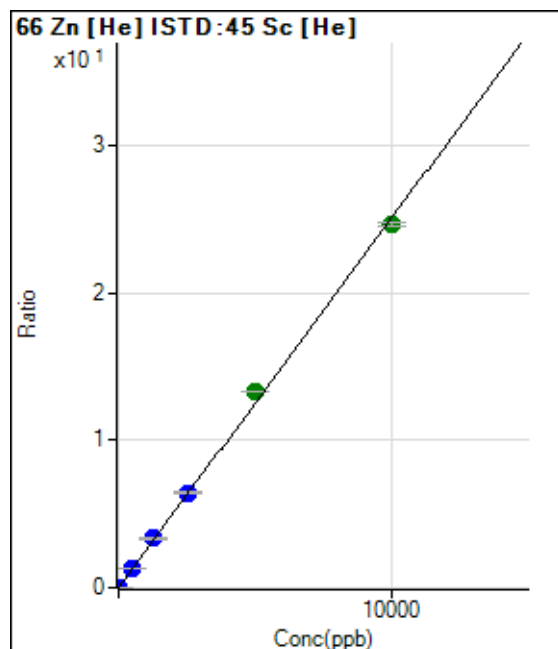
R = 0.9989

DL = 0.1501

BEC = 0.9399

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.89	0.0018	P	12.6
2	☐	5.000	4.864	2026.83	0.0140	P	8.0
3	☐	500.000	527.503	193010.91	1.3252	P	0.6
4	☐	1250.000	1327.913	479802.51	3.3334	P	3.5
5	☐	2500.000	2569.553	946815.34	6.4486	P	0.6
6	☐	5000.000	5299.172	1961240.06	13.2970	A	0.6
7	☐	10000.000	9821.911	3640808.11	24.6443	A	1.2
8	☐			1266.74	0.0106	P	8.3

$$y = 0.0025 * x + 0.0018$$

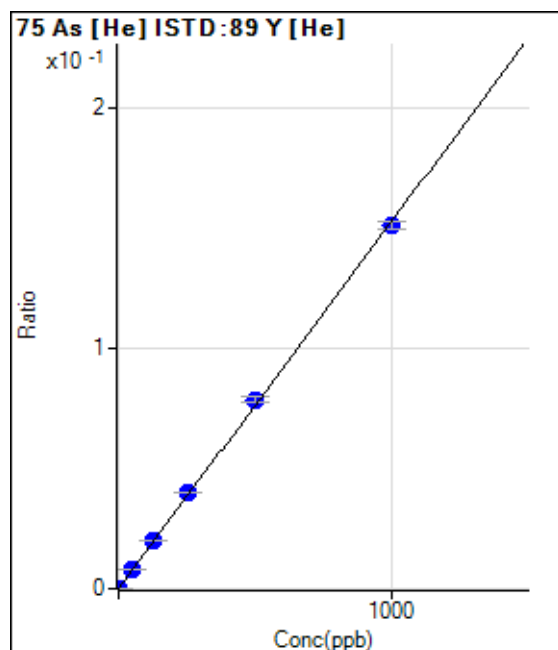
$$R = 0.9993$$

$$DL = 0.2649$$

$$BEC = 0.7003$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.9
2	☐	1.000	1.034	217.78	0.0002	P	8.1
3	☐	50.000	52.845	11016.62	0.0081	P	4.4
4	☐	125.000	130.156	27471.28	0.0199	P	2.7
5	☐	250.000	263.476	55312.42	0.0403	P	0.7
6	☐	500.000	515.046	109704.76	0.0787	P	2.7
7	☐	1000.000	988.321	210200.85	0.1511	P	2.3
8	☐			93.33	0.0001	P	17.5

$$y = 1.5288E-004 * x + 3.2293E-006$$

$$R = 0.9997$$

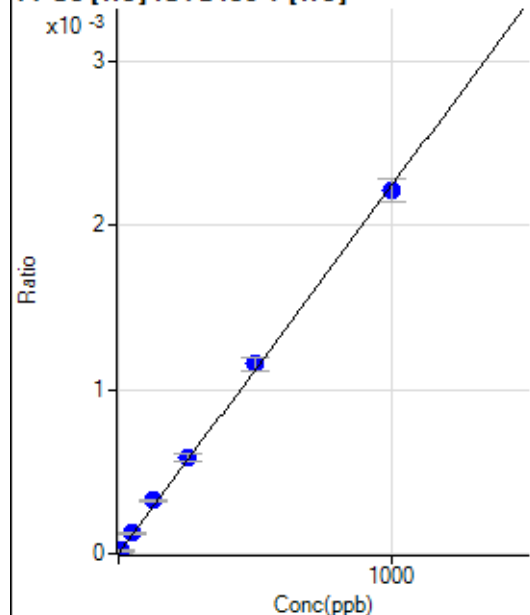
$$DL = 0.07284$$

$$BEC = 0.02112$$

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	1.11	0.0000	P	173.2
2	☐	5.000	8.087	25.55	0.0000	P	14.9
3	☐	50.000	54.545	167.78	0.0001	P	6.7
4	☐	125.000	145.117	450.01	0.0003	P	3.9
5	☐	250.000	260.788	803.36	0.0006	P	7.5
6	☐	500.000	516.728	1613.44	0.0012	P	7.1
7	☐	1000.000	986.182	3072.59	0.0022	P	6.5
8	☐			0.00	0.0000	P	

$$y = 2.2406E-006 * x + 8.0858E-007$$

R = 0.9996

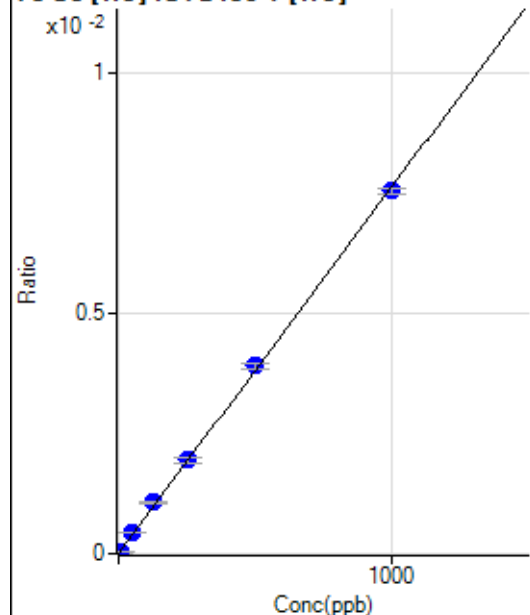
DL = 1.875

BEC = 0.3609

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	5.56	0.0000	P	91.8
2	☐	5.000	6.822	75.55	0.0001	P	13.7
3	☐	50.000	57.714	604.46	0.0004	P	5.2
4	☐	125.000	140.138	1478.98	0.0011	P	2.3
5	☐	250.000	254.343	2664.73	0.0019	P	7.8
6	☐	500.000	512.932	5446.66	0.0039	P	3.1
7	☐	1000.000	990.161	10499.57	0.0075	P	1.4
8	☐			3.33	0.0000	P	100.4

$$y = 7.6143E-006 * x + 4.0025E-006$$

R = 0.9998

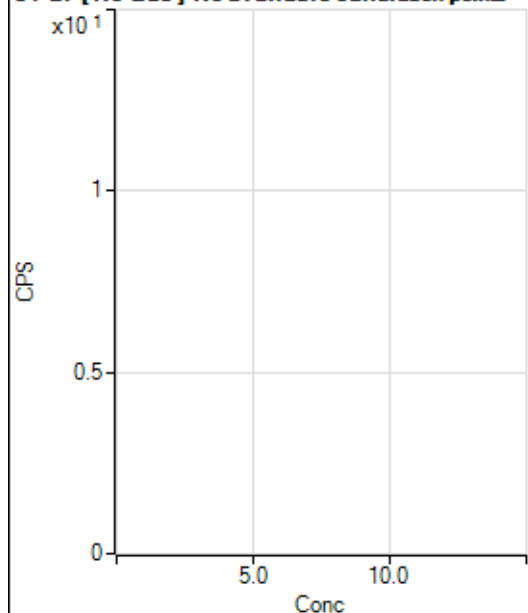
DL = 1.447

BEC = 0.5257

Weight: <None>

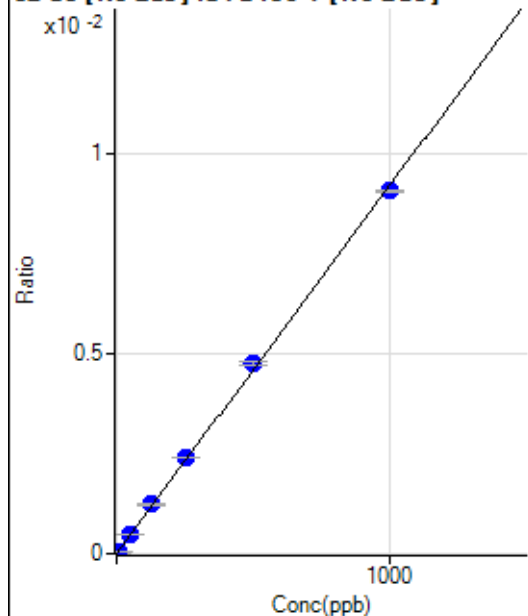
Min Conc: 0

81 Br [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5893.52		P	2.3
2	☐			5687.87		P	2.7
3	☐			5608.96		P	3.5
4	☐			5688.98		P	1.8
5	☐			5949.11		P	2.5
6	☐			6051.37		P	5.1
7	☐			6295.91		P	2.2
8	☐			6084.71		P	3.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-23.33	0.0000	P	-173.
2	☐	5.000	5.167	935.60	0.0000	P	5.5
3	☐	50.000	53.990	10037.13	0.0005	P	2.7
4	☐	125.000	133.787	25365.50	0.0012	P	2.3
5	☐	250.000	262.775	49888.95	0.0024	P	0.7
6	☐	500.000	518.135	99030.83	0.0048	P	1.8
7	☐	1000.000	986.440	189157.62	0.0091	P	0.6
8	☐			26.67	0.0000	P	168.8

$$y = 9.1924E-006 * x - 1.3416E-006$$

$$R = 0.9996$$

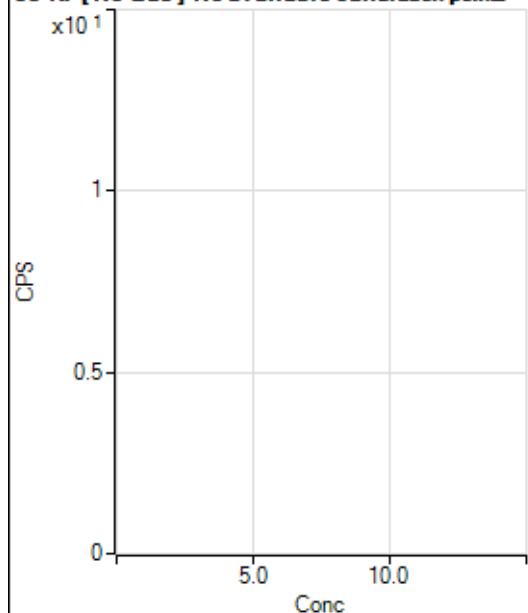
$$DL = 0.7583$$

$$BEC = -0.1459$$

Weight: <None>

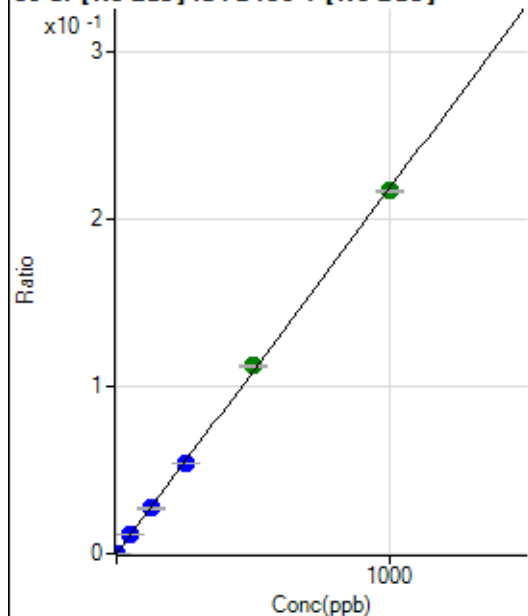
Min Conc: 0

83 Kr [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			151.12		P	15.0
2	☐			128.89		P	3.0
3	☐			141.11		P	8.3
4	☐			135.56		P	22.0
5	☐			160.00		P	7.5
6	☐			148.89		P	19.0
7	☐			207.78		P	15.8
8	☐			250.00		P	8.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	276.67	0.0000	P	31.1
2	☐	1.000	0.935	4415.18	0.0002	P	2.1
3	☐	50.000	50.621	223999.61	0.0110	P	0.2
4	☐	125.000	123.806	557300.87	0.0270	P	1.3
5	☐	250.000	247.922	1116621.59	0.0540	P	0.6
6	☐	500.000	514.322	2331340.28	0.1121	A	1.0
7	☐	1000.000	993.477	4516676.60	0.2165	A	0.6
8	☐			11871.78	0.0007	P	1.5

$$y = 2.1789E-004 * x + 1.4005E-005$$

$$R = 0.9998$$

$$DL = 0.05993$$

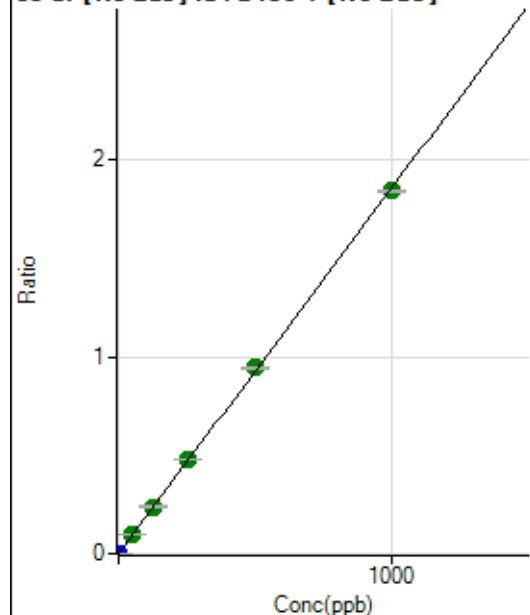
$$BEC = 0.06427$$

Weight: <None>

Min Conc: 0

Calibration for 143AREF.d

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	586.69	0.0000	P	9.2
2	☐	1.000	0.906	34645.13	0.0017	P	1.3
3	☐	50.000	53.101	1997949.10	0.0985	A	1.5
4	☐	125.000	128.919	4937465.83	0.2391	A	1.7
5	☐	250.000	257.937	9886468.40	0.4784	A	0.3
6	☐	500.000	508.548	19618342.48	0.9432	A	1.2
7	☐	1000.000	993.097	38428390.26	1.8419	A	0.4
8	☐			101166.20	0.0058	P	0.9

$$y = 0.0019 * x + 2.9123E-005$$

$$R = 0.9999$$

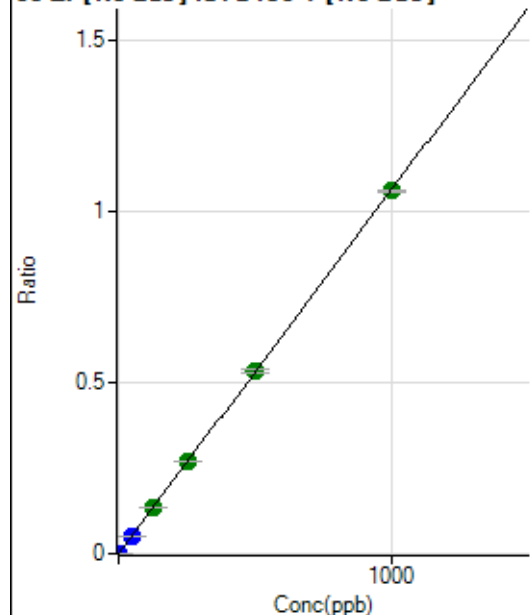
$$DL = 0.004313$$

$$BEC = 0.0157$$

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	637.80	0.0000	P	3.2
2	☐	1.000	0.924	20569.72	0.0010	P	2.0
3	☐	50.000	49.834	1076153.20	0.0531	P	0.4
4	☐	125.000	127.207	2795411.94	0.1354	A	1.0
5	☐	250.000	255.234	5612855.06	0.2716	A	0.6
6	☐	500.000	503.079	11133656.50	0.5353	A	1.9
7	☐	1000.000	996.884	22130821.61	1.0607	A	0.5
8	☐			11207.93	0.0006	P	1.7

$$y = 0.0011 * x + 3.1485E-005$$

$$R = 1.0000$$

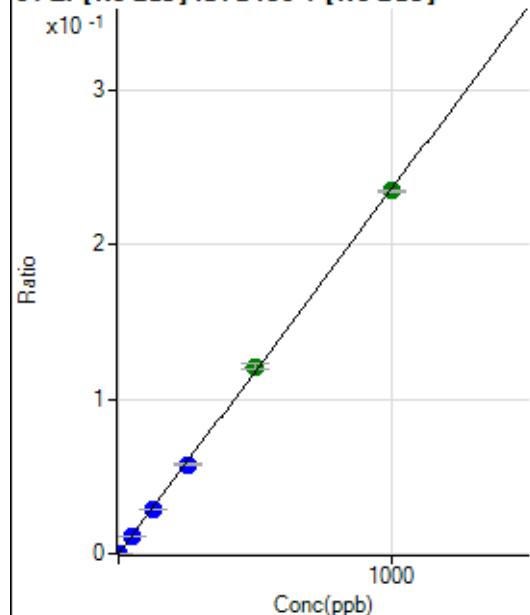
$$DL = 0.002847$$

$$BEC = 0.02959$$

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	138.89	0.0000	P	20.7
2	☐	1.000	0.928	4579.69	0.0002	P	0.5
3	☐	50.000	49.847	238957.09	0.0118	P	0.2
4	☐	125.000	122.274	596511.34	0.0289	P	1.3
5	☐	250.000	244.465	1193435.13	0.0578	P	0.9
6	☐	500.000	513.278	2521589.32	0.1213	A	2.5
7	☐	1000.000	995.093	4904118.12	0.2351	A	0.7
8	☐			2573.60	0.0001	P	1.5

$$y = 2.3621E-004 * x + 6.7396E-006$$

R = 0.9999

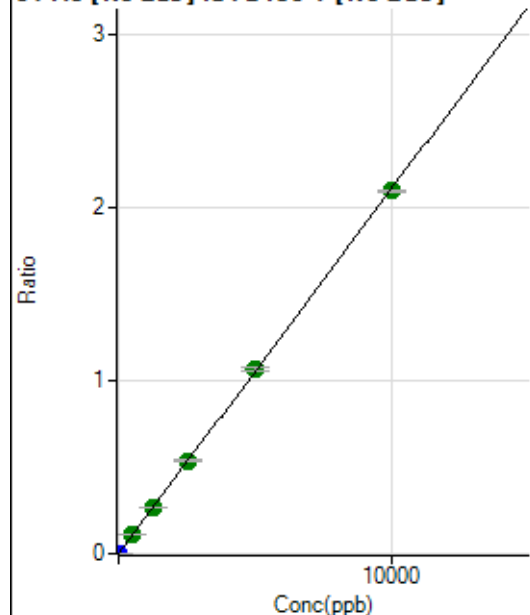
DL = 0.01771

BEC = 0.02853

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	284.45	0.0000	P	12.5
2	☐	5.000	5.597	24195.58	0.0012	P	1.4
3	☐	500.000	529.585	2264106.63	0.1116	A	0.4
4	☐	1250.000	1277.076	5557719.85	0.2692	A	1.0
5	☐	2500.000	2554.528	11125436.09	0.5384	A	0.8
6	☐	5000.000	5074.314	22241635.78	1.0694	A	2.0
7	☐	10000.000	9944.347	43725733.24	2.0958	A	0.4
8	☐			10442.89	0.0006	P	4.6

$$y = 2.1075E-004 * x + 1.3923E-005$$

R = 0.9999

DL = 0.02475

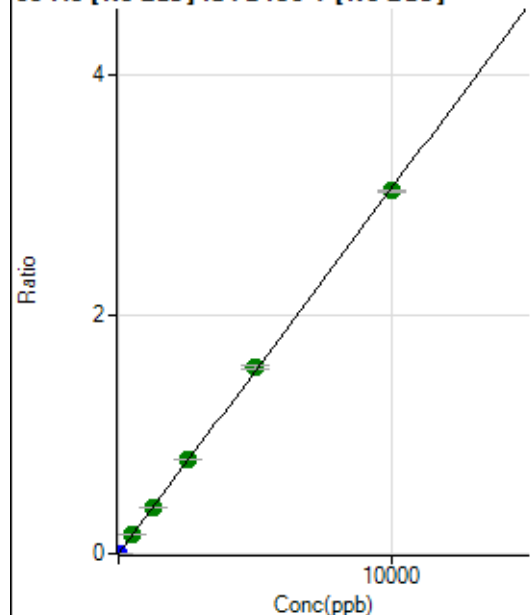
BEC = 0.06606

Weight: <None>

Min Conc: 0

Calibration for 143AREF.d

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	17.7
2	☐	5.000	4.609	28674.00	0.0014	P	0.9
3	☐	500.000	521.621	3230064.95	0.1593	A	0.7
4	☐	1250.000	1276.403	8046447.93	0.3897	A	1.1
5	☐	2500.000	2568.811	16206336.29	0.7842	A	0.3
6	☐	5000.000	5094.326	32345357.57	1.5553	A	2.2
7	☐	10000.000	9931.253	63257146.28	3.0320	A	0.4
8	☐			10226.08	0.0006	P	5.6

$$y = 3.0529E-004 * x + 7.1978E-006$$

R = 0.9999

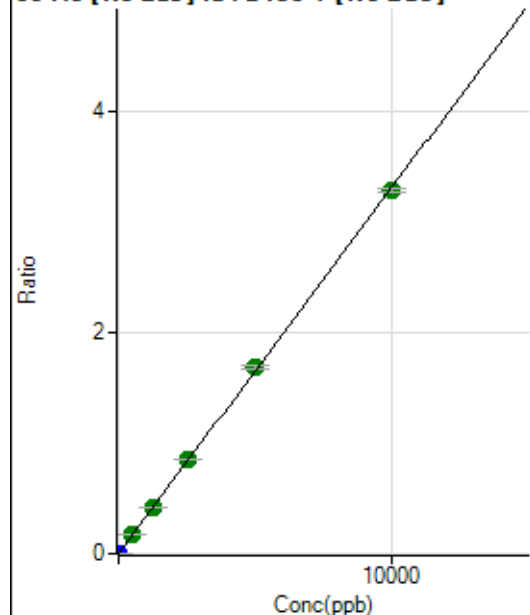
DL = 0.01254

BEC = 0.02358

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	210.00	0.0000	P	16.7
2	☐	5.000	4.784	32304.18	0.0016	P	1.6
3	☐	500.000	524.471	3519854.84	0.1735	A	1.2
4	☐	1250.000	1275.123	8711667.99	0.4219	A	1.2
5	☐	2500.000	2573.922	17599773.21	0.8517	A	1.0
6	☐	5000.000	5116.140	35207463.64	1.6928	A	1.8
7	☐	10000.000	9919.086	68474581.76	3.2820	A	1.0
8	☐			14329.74	0.0008	P	3.4

$$y = 3.3087E-004 * x + 1.0484E-005$$

R = 0.9999

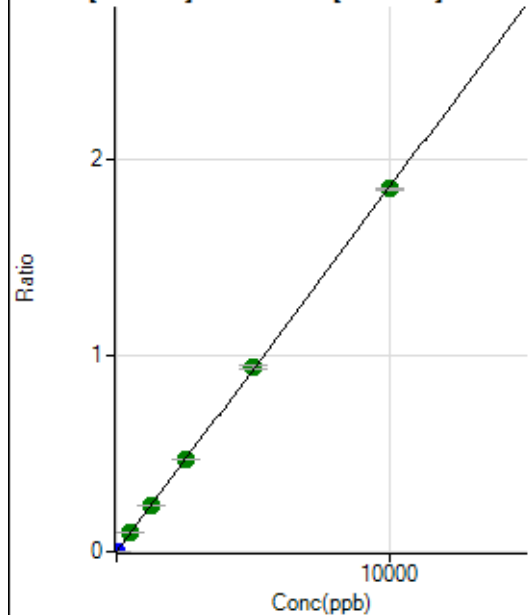
DL = 0.0159

BEC = 0.03169

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	87.78	0.0000	P	15.1
2	☐	5.000	4.729	17942.80	0.0009	P	1.0
3	☐	500.000	527.655	1992913.23	0.0983	A	0.4
4	☐	1250.000	1281.220	4926383.64	0.2386	A	0.5
5	☐	2500.000	2548.903	9808393.95	0.4746	A	0.5
6	☐	5000.000	5060.892	19600964.15	0.9424	A	1.3
7	☐	10000.000	9952.043	38664071.92	1.8532	A	0.7
8	☐			5512.26	0.0003	P	5.4

$$y = 1.8621E-004 * x + 4.3796E-006$$

$$R = 1.0000$$

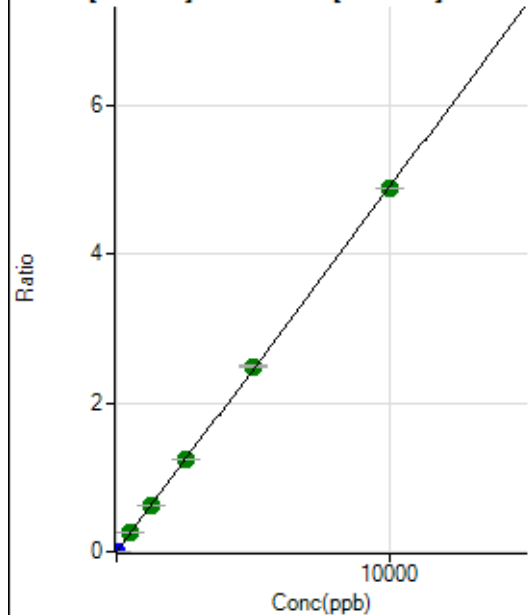
$$DL = 0.01067$$

$$BEC = 0.02352$$

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	195.56	0.0000	P	9.2
2	☐	5.000	4.571	45561.19	0.0022	P	1.0
3	☐	500.000	518.561	5148819.23	0.2539	A	1.2
4	☐	1250.000	1275.898	12897127.17	0.6246	A	1.4
5	☐	2500.000	2552.250	25819787.95	1.2495	A	0.2
6	☐	5000.000	5069.579	51620204.79	2.4818	A	1.2
7	☐	10000.000	9947.983	101605162.9	4.8700	A	0.2
8	☐			13548.96	0.0008	P	4.3

$$y = 4.8955E-004 * x + 9.6909E-006$$

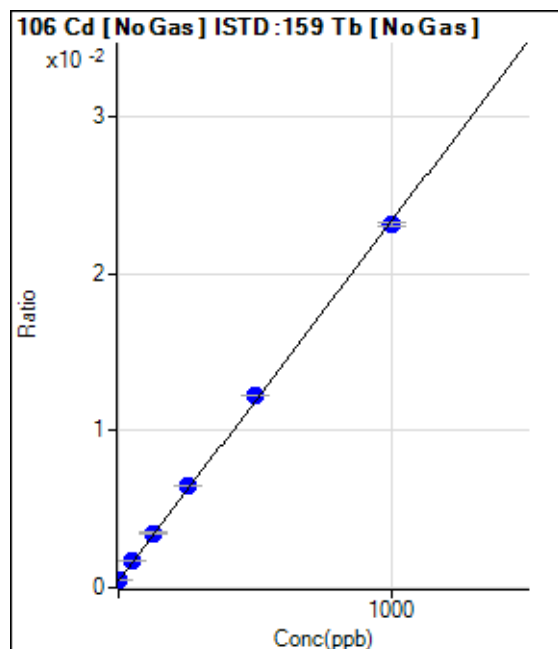
$$R = 0.9999$$

$$DL = 0.005461$$

$$BEC = 0.0198$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6890.71	0.0005	P	2.4
2	☐	1.000	0.703	7131.91	0.0005	P	2.1
3	☐	50.000	55.107	24998.28	0.0017	P	1.5
4	☐	125.000	131.582	51008.29	0.0035	P	1.4
5	☐	250.000	261.908	95187.48	0.0065	P	1.2
6	☐	500.000	514.403	181628.83	0.0123	P	0.5
7	☐	1000.000	988.744	341166.59	0.0231	P	0.9
8	☐			5745.69	0.0005	P	3.4

$$y = 2.2920\text{E-}005 * x + 4.7941\text{E-}004$$

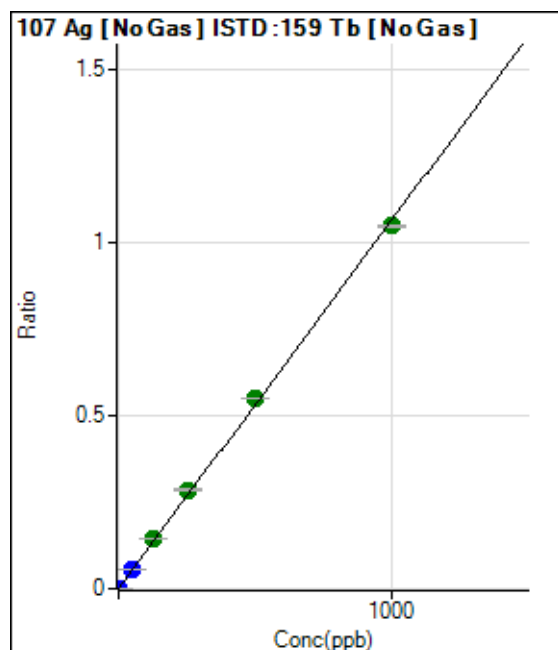
$$R = 0.9998$$

$$DL = 1.514$$

$$BEC = 20.92$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	28.8
2	☐	1.000	0.942	14544.46	0.0010	P	0.8
3	☐	50.000	53.211	812874.94	0.0567	P	0.5
4	☐	125.000	135.473	2104857.10	0.1442	A	0.5
5	☐	250.000	268.654	4199696.54	0.2860	A	0.3
6	☐	500.000	517.026	8147407.10	0.5504	A	0.9
7	☐	1000.000	985.354	15464659.63	1.0490	A	0.8
8	☐			1921.27	0.0002	P	4.5

$$y = 0.0011 * x + 7.8324\text{E-}006$$

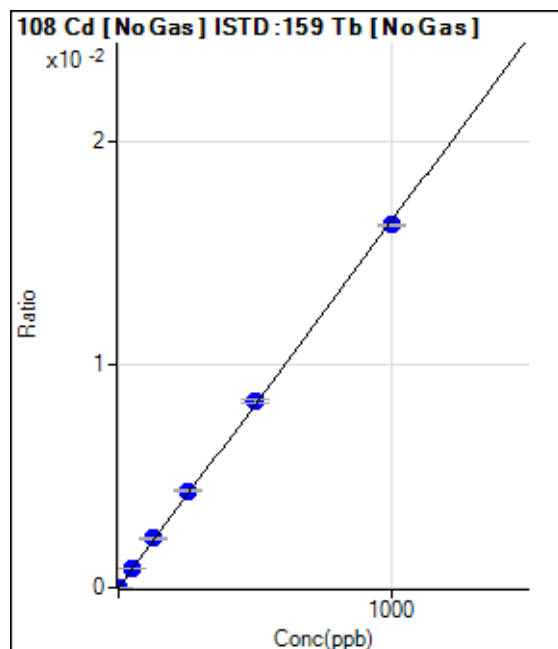
$$R = 0.9996$$

$$DL = 0.006348$$

$$BEC = 0.007357$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31.11	0.0000	P	15.2
2	☐	1.000	0.981	263.34	0.0000	P	8.3
3	☐	50.000	54.457	12869.41	0.0009	P	1.5
4	☐	125.000	134.354	32247.73	0.0022	P	2.2
5	☐	250.000	263.639	63640.44	0.0043	P	0.9
6	☐	500.000	511.029	124312.00	0.0084	P	2.0
7	☐	1000.000	989.684	239777.31	0.0163	P	0.6
8	☐			163.34	0.0000	P	9.3

$$y = 1.6432E-005 * x + 2.1752E-006$$

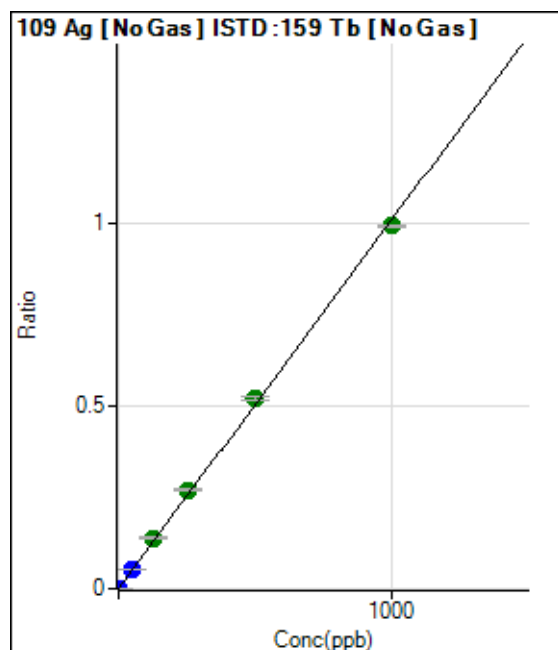
R = 0.9998

DL = 0.06025

BEC = 0.1324

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	8.6
2	☐	1.000	0.948	13819.26	0.0010	P	0.9
3	☐	50.000	53.280	771160.84	0.0537	P	1.2
4	☐	125.000	137.706	2027195.51	0.1389	A	1.3
5	☐	250.000	268.716	3980246.96	0.2711	A	0.4
6	☐	500.000	518.237	7737247.11	0.5228	A	1.9
7	☐	1000.000	984.450	14639920.75	0.9930	A	0.8
8	☐			1809.03	0.0001	P	8.9

$$y = 0.0010 * x + 3.8870E-006$$

R = 0.9995

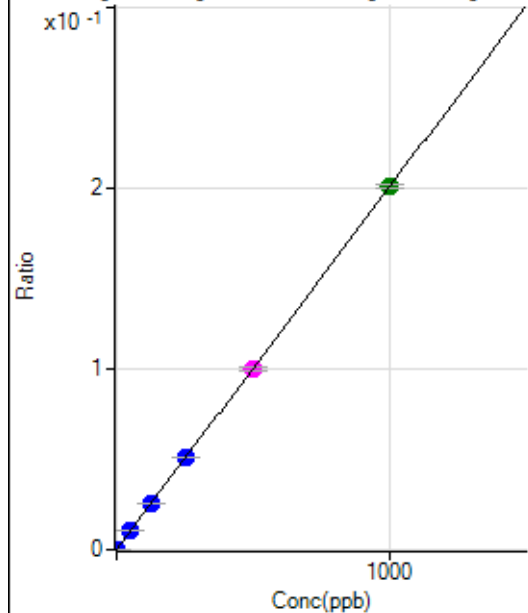
DL = 0.000993

BEC = 0.003853

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	1375.25	0.0001	P	2.0
2	☐	1.000	1.014	4302.42	0.0003	P	2.0
3	☐	50.000	53.314	154699.18	0.0108	P	0.9
4	☐	125.000	127.852	375402.22	0.0257	P	1.1
5	☐	250.000	253.694	748153.97	0.0509	P	0.5
6	☐	500.000	497.157	1476485.66	0.0998	M	2.0
7	☐	1000.000	999.976	2956624.40	0.2005	A	1.0
8	☐			1851.50	0.0001	P	1.3

$$y = 2.0045E-004 * x + 9.5725E-005$$

$$R = 1.0000$$

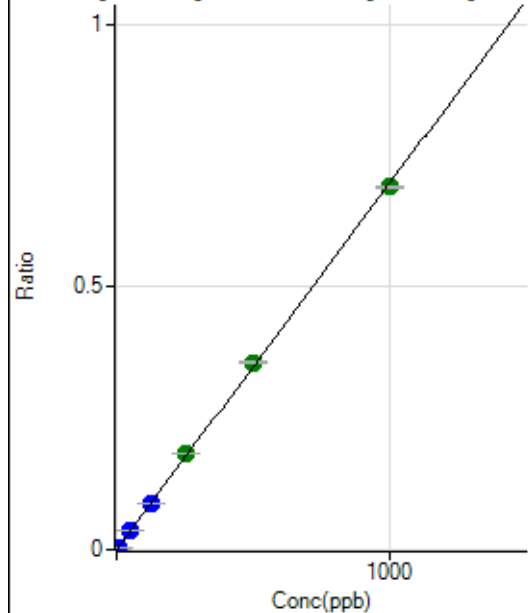
$$DL = 0.02804$$

$$BEC = 0.4775$$

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	1295.63	0.0001	P	12.4
2	☐	5.000	4.760	49060.90	0.0034	P	1.7
3	☐	50.000	52.010	521455.91	0.0363	P	0.2
4	☐	125.000	126.570	1288827.00	0.0883	P	1.3
5	☐	250.000	264.216	2705714.07	0.1843	A	0.5
6	☐	500.000	510.652	5270226.17	0.3560	A	0.8
7	☐	1000.000	990.825	10183398.04	0.6908	A	0.4
8	☐			2967.02	0.0002	P	5.1

$$y = 6.9705E-004 * x + 9.1118E-005$$

$$R = 0.9998$$

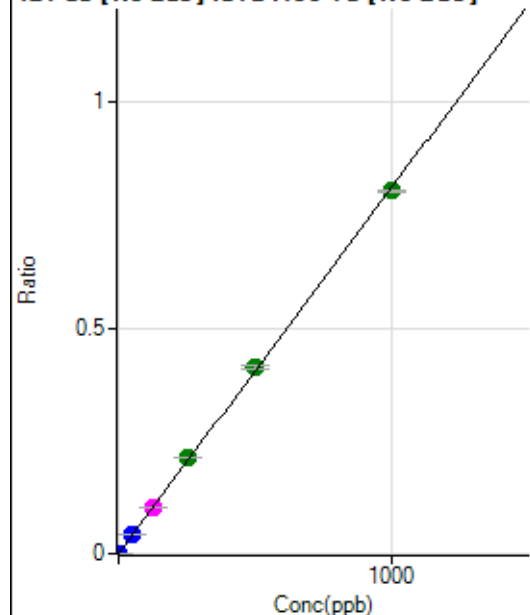
$$DL = 0.04873$$

$$BEC = 0.1307$$

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	70.00	0.0000	P	10.8
2	☐	2.000	1.862	21810.85	0.0015	P	0.8
3	☐	50.000	51.318	597468.98	0.0416	P	0.4
4	☐	125.000	126.729	1500692.96	0.1028	M	2.8
5	☐	250.000	261.822	3119413.18	0.2124	A	0.5
6	☐	500.000	510.412	6129734.63	0.4141	A	1.5
7	☐	1000.000	991.557	11860668.44	0.8045	A	0.3
8	☐			3504.93	0.0003	P	7.1

$$y = 8.1136E-004 * x + 4.8932E-006$$

$$R = 0.9998$$

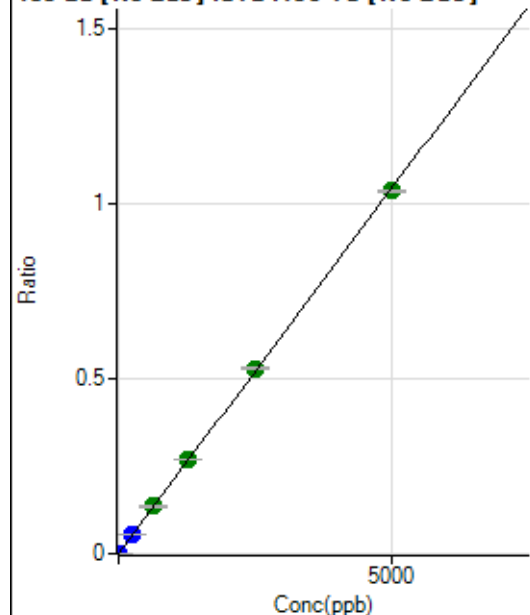
$$DL = 0.001949$$

$$BEC = 0.006031$$

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	374.45	0.0000	P	3.9
2	☐	10.000	9.463	28773.92	0.0020	P	2.7
3	☐	250.000	252.323	755372.89	0.0526	P	0.4
4	☐	625.000	646.790	1968758.60	0.1349	A	1.9
5	☐	1250.000	1287.502	3942970.57	0.2685	A	1.4
6	☐	2500.000	2537.134	7832010.99	0.5292	A	1.5
7	☐	5000.000	4969.219	15278737.69	1.0364	A	0.2
8	☐			6613.91	0.0005	P	5.2

$$y = 2.0855E-004 * x + 2.6121E-005$$

$$R = 0.9999$$

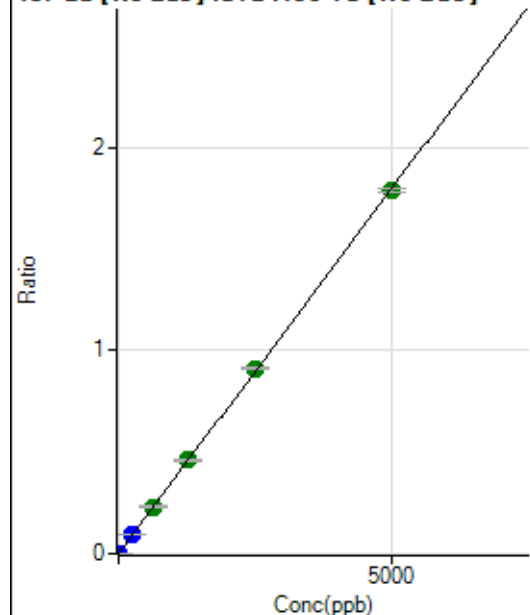
$$DL = 0.01477$$

$$BEC = 0.1253$$

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	611.13	0.0000	P	26.8
2	☐	10.000	9.410	49240.15	0.0034	P	1.1
3	☐	250.000	254.708	1312514.28	0.0915	P	0.2
4	☐	625.000	644.316	3375693.35	0.2313	A	2.4
5	☐	1250.000	1283.953	6768338.02	0.4610	A	1.2
6	☐	2500.000	2532.183	13455447.58	0.9090	A	1.0
7	☐	5000.000	4972.771	26316994.89	1.7852	A	1.0
8	☐			11370.48	0.0009	P	6.7

$$y = 3.5898E-004 * x + 4.3548E-005$$

R = 0.9999

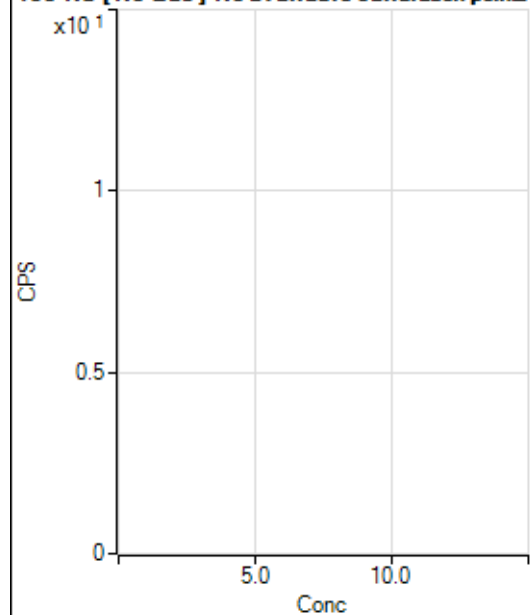
DL = 0.09758

BEC = 0.1213

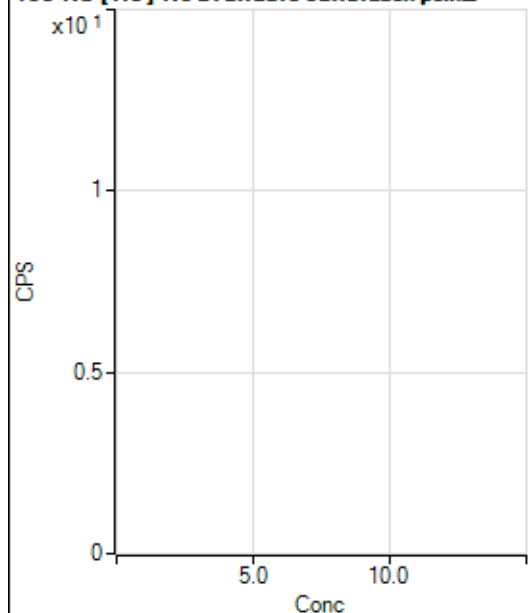
Weight: <None>

Min Conc: 0

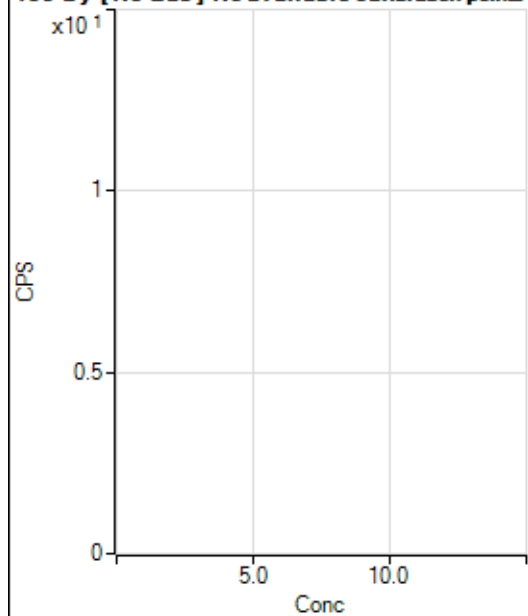
150 Nd [No Gas] No available calibration points



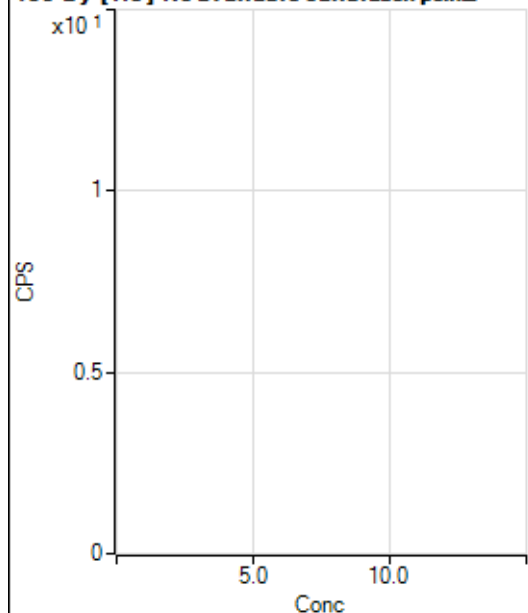
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			15.56		P	53.9
2	☐			26.67		P	12.5
3	☐			90.00		P	14.8
4	☐			206.67		P	12.9
5	☐			428.90		P	11.8
6	☐			760.03		P	4.9
7	☐			1473.43		P	2.4
8	☐			323.34		P	1.0

150 Nd [He] No available calibration points

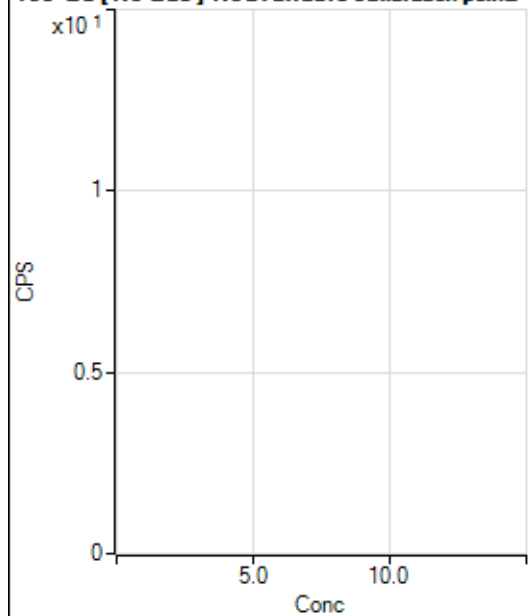
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			5.56		P	34.7
3	☐			1.11		P	173.2
4	☐			15.56		P	49.5
5	☐			11.11		P	45.8
6	☐			32.22		P	36.3
7	☐			52.22		P	9.7
8	☐			56.67		P	15.6

156 Dy [No Gas] No available calibration points

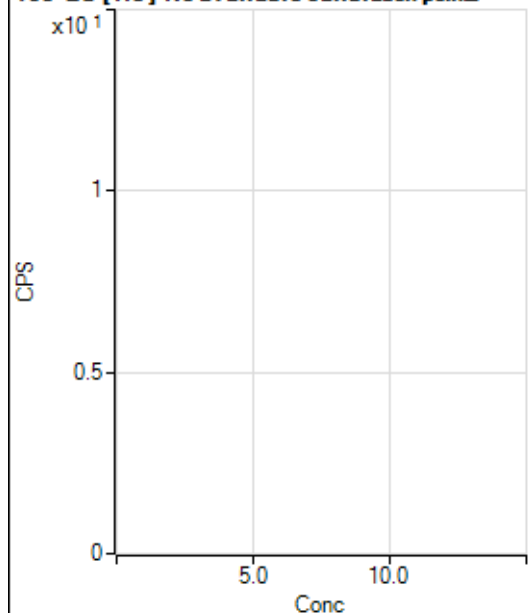
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			111.11		P	30.1
2	☐			117.78		P	11.4
3	☐			107.78		P	6.4
4	☐			145.56		P	18.4
5	☐			184.45		P	8.1
6	☐			268.90		P	7.2
7	☐			440.01		P	11.3
8	☐			528.90		P	13.0

156 Dy [He] No available calibration points

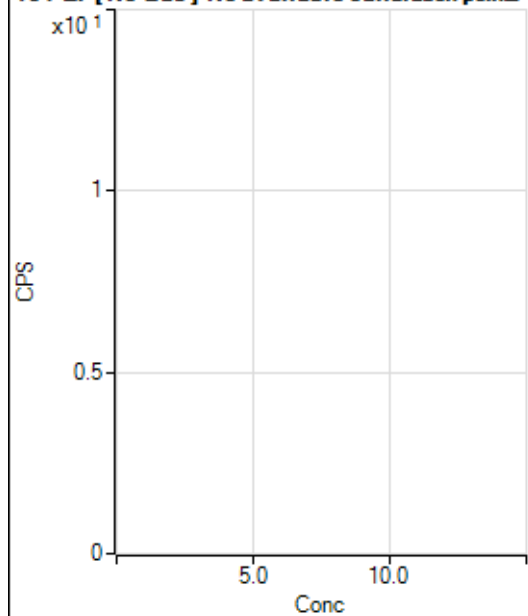
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			2.22		P	173.2
3	☐			10.00		P	33.3
4	☐			16.67		P	40.0
5	☐			11.11		P	45.8
6	☐			13.33		P	25.0
7	☐			37.78		P	10.2
8	☐			108.89		P	24.7

160 Gd [No Gas] Noavailable calibration poin_

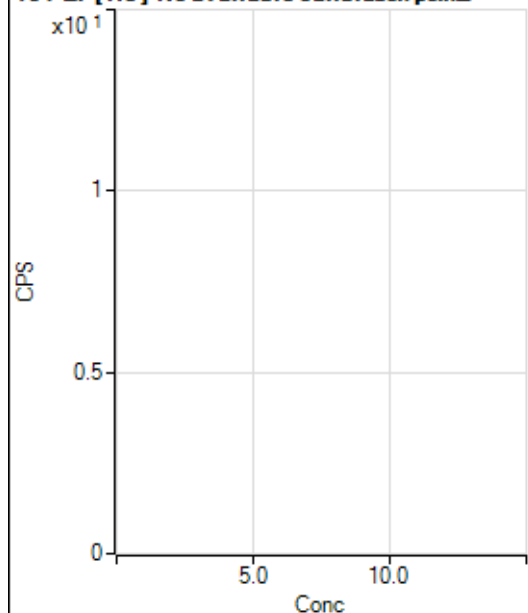
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.33		P	43.7
2	☐			52.22		P	20.5
3	☐			52.22		P	16.1
4	☐			60.00		P	27.8
5	☐			58.89		P	39.8
6	☐			122.23		P	8.3
7	☐			182.22		P	10.7
8	☐			434.46		P	4.7

160 Gd [He] No available calibration points

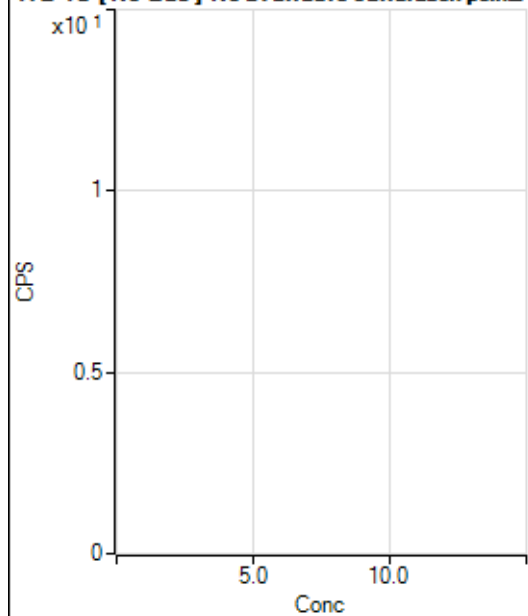
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			5.55		P	124.9
3	☐			12.22		P	56.8
4	☐			15.55		P	24.8
5	☐			14.44		P	35.3
6	☐			20.00		P	28.9
7	☐			45.55		P	15.2
8	☐			152.23		P	14.1

164 Er [No Gas] No available calibration points

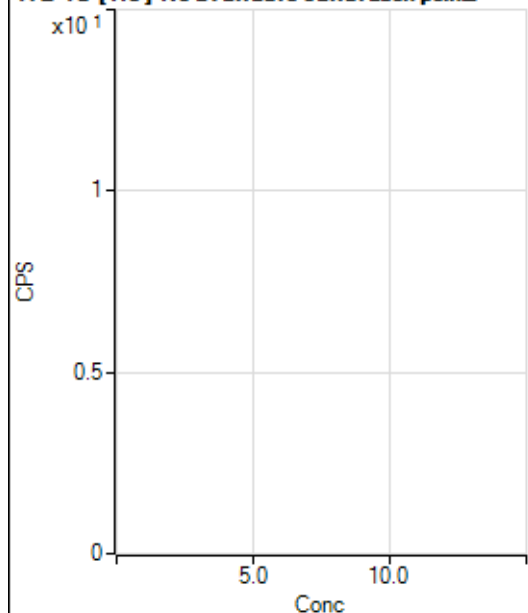
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.33		P	15.8
2	☐			57.78		P	26.0
3	☐			86.67		P	21.4
4	☐			105.56		P	7.9
5	☐			117.78		P	14.0
6	☐			164.45		P	18.8
7	☐			218.89		P	6.9
8	☐			541.13		P	5.7

164 Er [He] No available calibration points

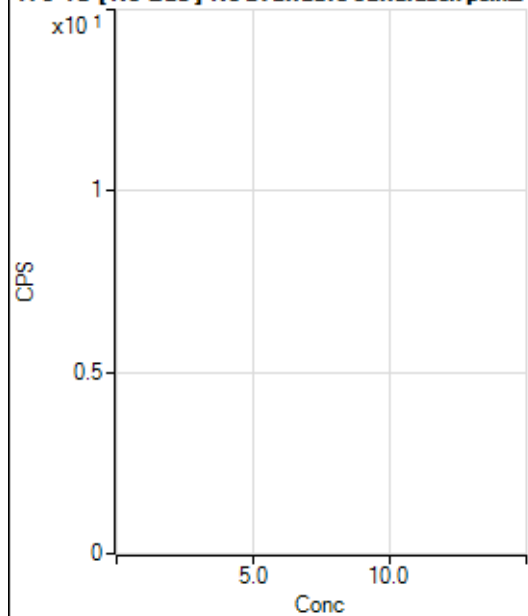
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	40.0
2	☐			30.00		P	11.1
3	☐			30.00		P	11.1
4	☐			43.33		P	20.3
5	☐			37.78		P	10.2
6	☐			58.89		P	17.3
7	☐			75.55		P	20.8
8	☐			166.67		P	4.0

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	18.7
2	☐			93.33		P	27.0
3	☐			88.89		P	31.9
4	☐			84.44		P	2.3
5	☐			121.11		P	17.9
6	☐			148.89		P	3.4
7	☐			253.34		P	3.9
8	☐			576.69		P	5.7

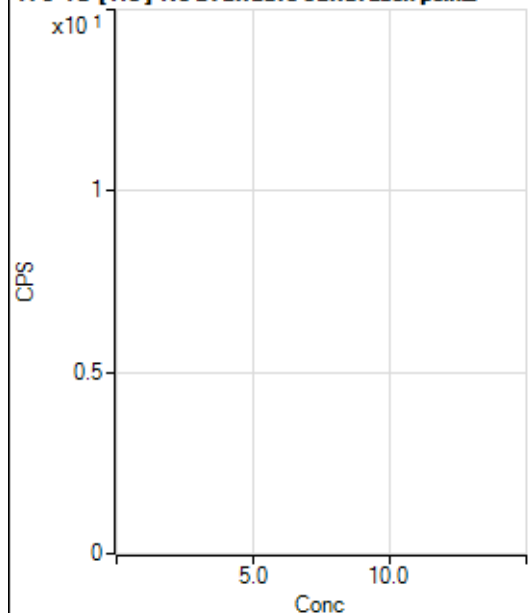
172 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	49.4
2	☐			15.56		P	65.5
3	☐			34.44		P	47.7
4	☐			36.67		P	50.6
5	☐			41.11		P	33.8
6	☐			53.33		P	25.0
7	☐			93.33		P	12.9
8	☐			194.45		P	19.3

176 Yb [No Gas] No available calibration points

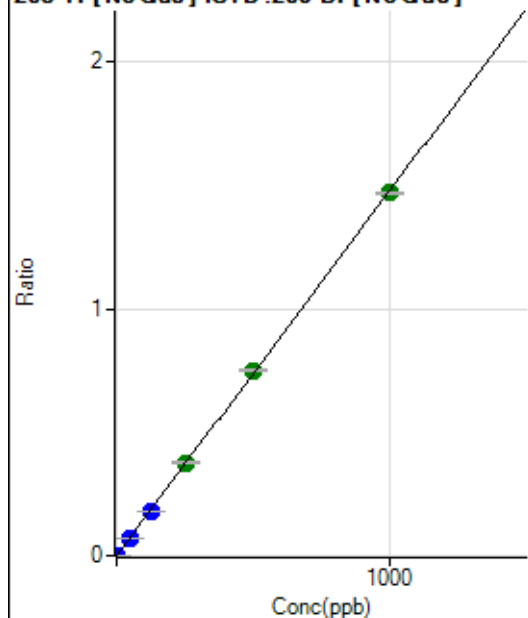
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2031.30		P	10.7
2	☐			1995.73		P	6.0
3	☐			4594.18		P	2.0
4	☐			9057.64		P	2.5
5	☐			16085.45		P	1.7
6	☐			29494.03		P	1.2
7	☐			56673.03		P	1.7
8	☐			2079.07		P	2.1

176 Yb [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			308.89		P	9.4
2	☐			286.67		P	4.2
3	☐			1238.96		P	7.8
4	☐			2551.38		P	4.7
5	☐			4988.78		P	3.3
6	☐			9345.60		P	2.0
7	☐			18282.75		P	1.9
8	☐			370.01		P	13.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	206.67	0.0000	P	27.9
2	☐	1.000	0.881	11629.74	0.0013	P	2.5
3	☐	50.000	49.520	634791.69	0.0731	P	0.7
4	☐	125.000	120.651	1564657.18	0.1781	P	1.5
5	☐	250.000	254.672	3277298.60	0.3759	A	1.7
6	☐	500.000	508.404	6446345.46	0.7505	A	0.9
7	☐	1000.000	995.198	12320477.18	1.4690	A	0.6
8	☐			1142.29	0.0002	P	7.3

$$y = 0.0015 * x + 2.3927E-005$$

$$R = 0.9999$$

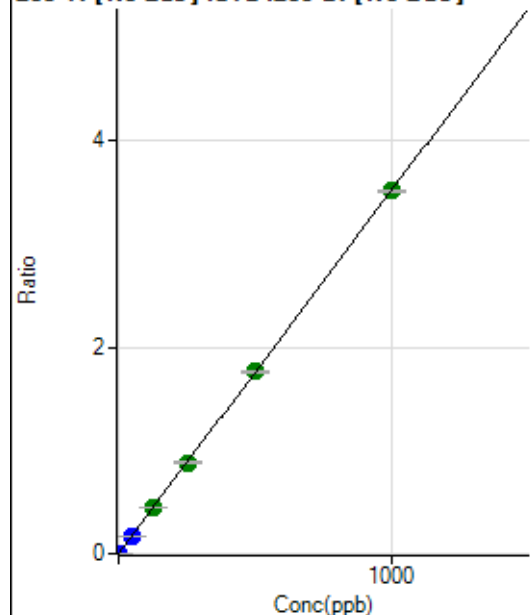
$$DL = 0.01355$$

$$BEC = 0.01621$$

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	478.90	0.0001	P	11.1
2	☐	1.000	0.890	27960.16	0.0032	P	2.2
3	☐	50.000	49.260	1504612.18	0.1733	P	0.6
4	☐	125.000	126.227	3900217.86	0.4440	A	1.9
5	☐	250.000	250.723	7688388.01	0.8819	A	0.6
6	☐	500.000	501.683	15157174.08	1.7645	A	1.0
7	☐	1000.000	998.861	29465912.62	3.5132	A	0.4
8	☐			2562.51	0.0004	P	11.4

$$y = 0.0035 * x + 5.4910E-005$$

R = 1.0000

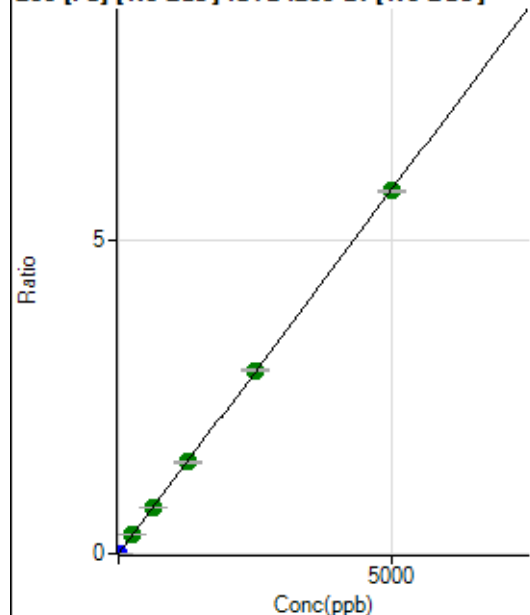
DL = 0.005216

BEC = 0.01561

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	1127.84	0.0001	P	16.7
2	☐	1.000	0.892	10208.52	0.0012	P	1.8
3	☐	250.000	259.115	2605112.08	0.3001	A	0.5
4	☐	625.000	624.844	6355307.75	0.7234	A	0.5
5	☐	1250.000	1258.748	12703736.47	1.4572	A	1.2
6	☐	2500.000	2522.106	25078558.24	2.9196	A	1.3
7	☐	5000.000	4986.324	48411599.28	5.7721	A	0.4
8	☐			8701.89	0.0013	P	4.6

$$y = 0.0012 * x + 1.3025E-004$$

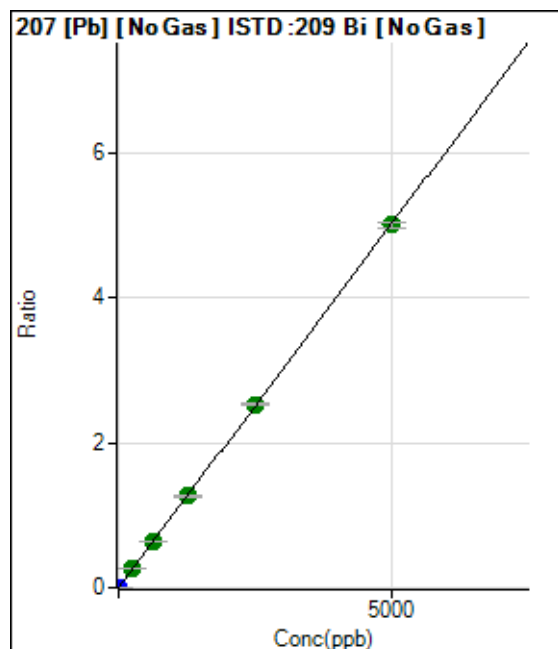
R = 1.0000

DL = 0.05627

BEC = 0.1125

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	984.49	0.0001	P	16.0
2	☐	1.000	0.920	9112.17	0.0010	P	2.1
3	☐	250.000	259.437	2263348.54	0.2607	A	0.7
4	☐	625.000	635.055	5604720.89	0.6380	A	0.9
5	☐	1250.000	1255.411	10994351.92	1.2611	A	1.4
6	☐	2500.000	2521.416	21755070.51	2.5328	A	1.9
7	☐	5000.000	4986.211	42006062.43	5.0086	A	1.4
8	☐			7511.16	0.0011	P	7.1

$$y = 0.0010 * x + 1.1353E-004$$

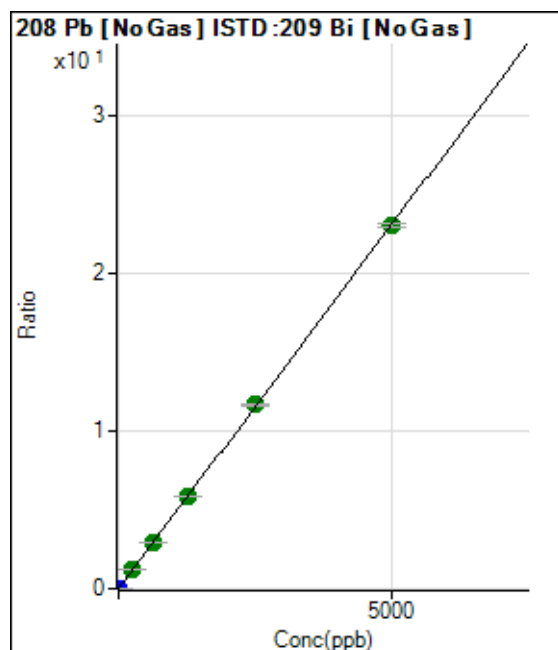
$$R = 1.0000$$

$$DL = 0.05426$$

$$BEC = 0.113$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4490.35	0.0005	P	15.6
2	☐	1.000	0.900	40987.78	0.0047	P	1.2
3	☐	250.000	258.680	10364976.23	1.1939	A	0.4
4	☐	625.000	632.112	25622681.77	2.9167	A	0.6
5	☐	1250.000	1263.574	50823230.49	5.8298	A	1.3
6	☐	2500.000	2523.579	100002692.9	11.6426	A	1.6
7	☐	5000.000	4983.494	192822647.9	22.9910	A	0.9
8	☐			34595.11	0.0051	P	4.1

$$y = 0.0046 * x + 5.1799E-004$$

$$R = 1.0000$$

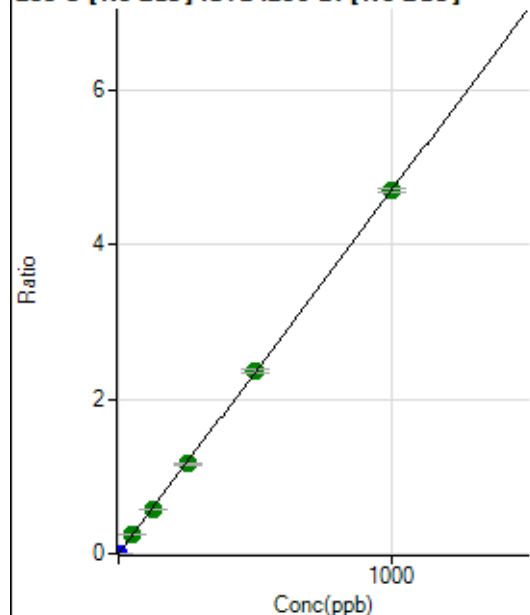
$$DL = 0.05245$$

$$BEC = 0.1123$$

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	44.44	0.0000	P	41.9
2	☐	1.000	0.877	36205.91	0.0041	P	0.3
3	☐	50.000	50.500	2059061.06	0.2372	A	0.6
4	☐	125.000	123.052	5076496.49	0.5779	A	1.9
5	☐	250.000	247.141	10118903.46	1.1607	A	1.6
6	☐	500.000	503.739	20320707.20	2.3658	A	1.6
7	☐	1000.000	999.064	39352153.86	4.6921	A	1.0
8	☐			2758.11	0.0004	P	10.8

$$y = 0.0047 * x + 4.9186E-006$$

$$R = 1.0000$$

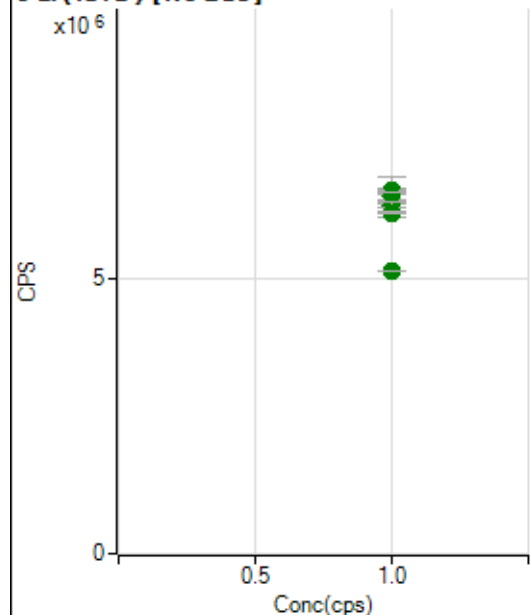
$$DL = 0.001318$$

$$BEC = 0.001047$$

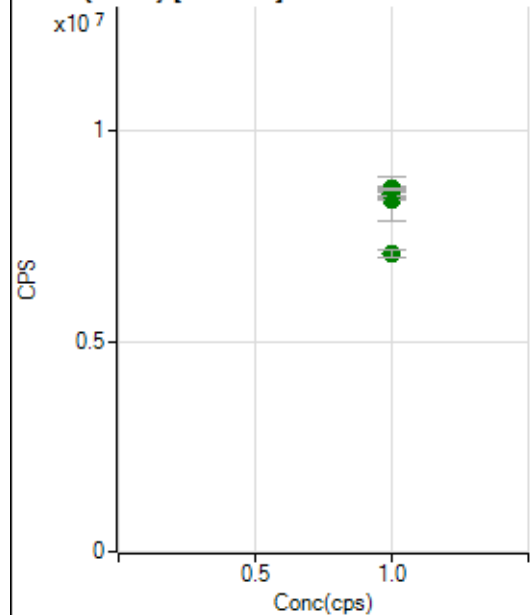
Weight: <None>

Min Conc: 0

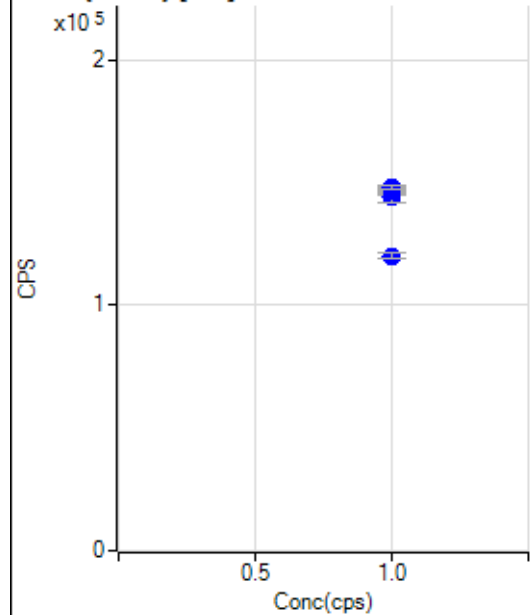
6 Li (ISTD) [No Gas]



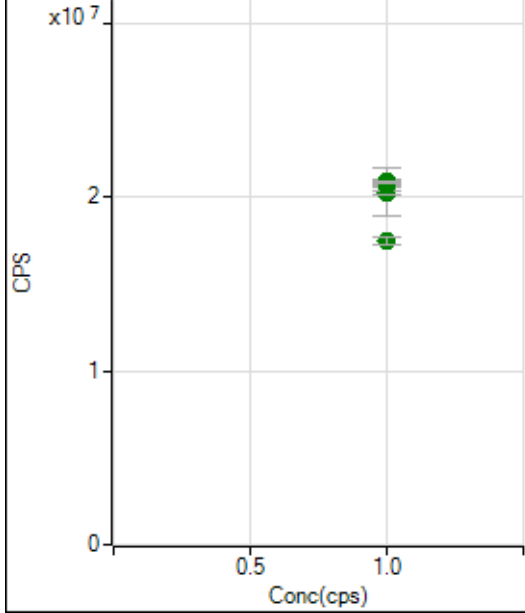
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6477544.33		A	11.3
2	☐	1.000		6586320.05		A	1.3
3	☐	1.000		6567911.89		A	1.0
4	☐	1.000		6489323.63		A	1.8
5	☐	1.000		6399293.43		A	0.9
6	☐	1.000		6331340.31		A	1.3
7	☐	1.000		6195639.31		A	0.5
8	☐	1.000		5126474.56		A	0.1

45 Sc (ISTD) [No Gas]

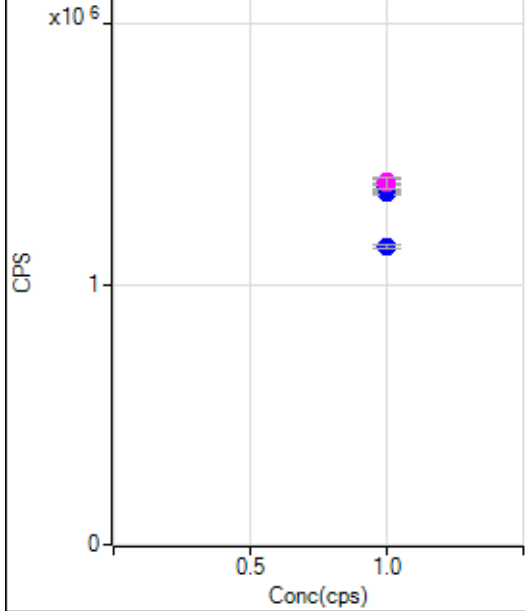
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8374235.99		A	12.7
2	☐	1.000		8435609.74		A	1.0
3	☐	1.000		8376724.80		A	0.8
4	☐	1.000		8608709.17		A	1.3
5	☐	1.000		8501483.97		A	0.8
6	☐	1.000		8622926.33		A	1.7
7	☐	1.000		8621134.60		A	0.8
8	☐	1.000		7093545.24		A	2.4

45 Sc (ISTD) [He]

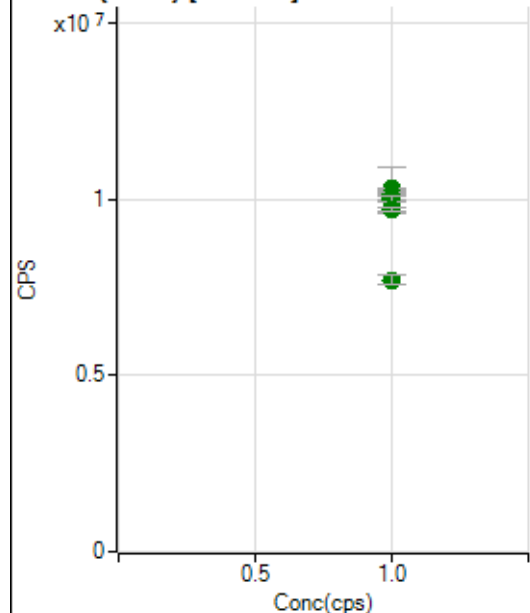
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		147464.13		P	1.0
2	☐	1.000		145200.00		P	0.6
3	☐	1.000		145645.80		P	0.5
4	☐	1.000		144061.48		P	3.7
5	☐	1.000		146828.74		P	0.7
6	☐	1.000		147501.14		P	1.2
7	☐	1.000		147742.41		P	1.1
8	☐	1.000		120025.00		P	2.1

89 Y (ISTD) [No Gas]

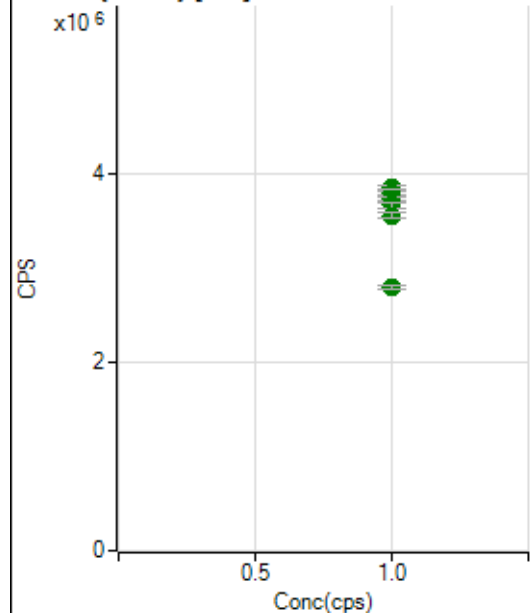
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20301412.75		A	13.3
2	☐	1.000		20275382.34		A	1.1
3	☐	1.000		20282783.72		A	1.1
4	☐	1.000		20649031.22		A	0.7
5	☐	1.000		20664929.83		A	0.4
6	☐	1.000		20801780.38		A	1.5
7	☐	1.000		20863368.58		A	0.3
8	☐	1.000		17519937.10		A	2.5

89 Y (ISTD) [He]

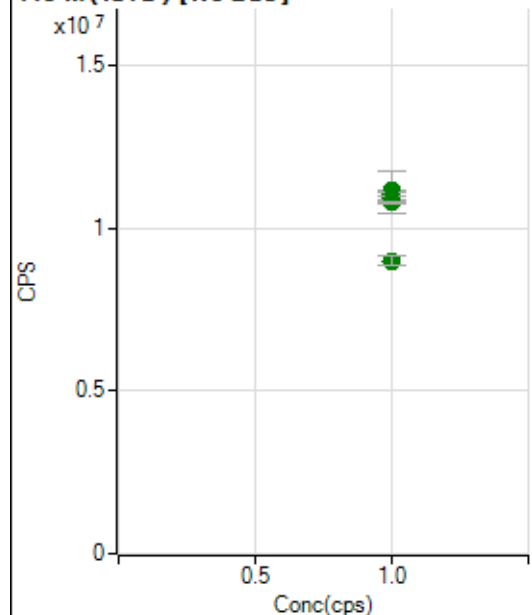
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1383589.53		P	0.7
2	☐	1.000		1349803.36		P	0.5
3	☐	1.000		1363321.72		P	0.9
4	☐	1.000		1381282.67		M	3.6
5	☐	1.000		1373190.25		P	1.1
6	☐	1.000		1393745.53		M	2.1
7	☐	1.000		1391861.11		M	3.2
8	☐	1.000		1145832.62		P	1.2

103 Rh (ISTD) [No Gas]

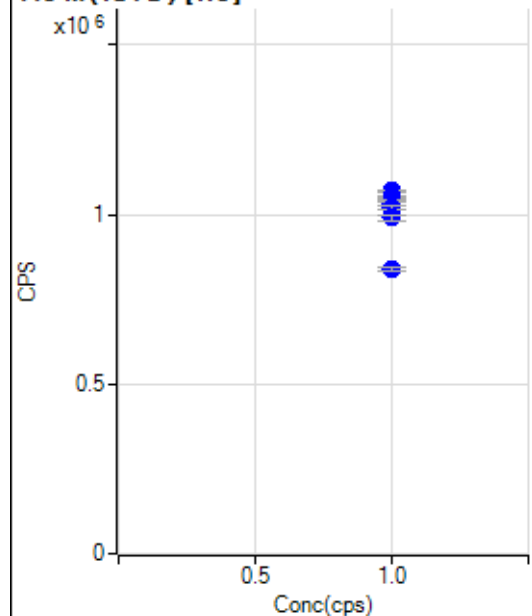
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10251060.33		A	12.9
2	☐	1.000		10284011.10		A	0.9
3	☐	1.000		10056594.43		A	1.2
4	☐	1.000		10126336.59		A	0.9
5	☐	1.000		10021453.95		A	1.0
6	☐	1.000		9987269.44		A	1.6
7	☐	1.000		9722174.99		A	1.0
8	☐	1.000		7705405.03		A	3.4

103 Rh (ISTD) [He]

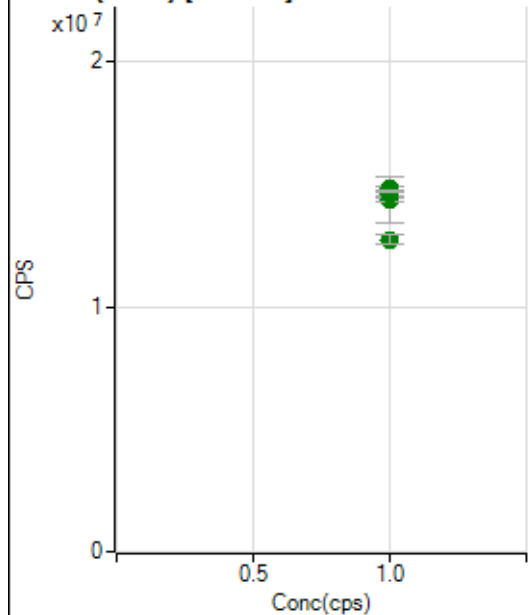
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3844152.72		A	1.5
2	☐	1.000		3761405.29		A	0.9
3	☐	1.000		3791877.69		A	1.6
4	☐	1.000		3683301.92		A	3.1
5	☐	1.000		3727945.71		A	0.9
6	☐	1.000		3663278.73		A	1.5
7	☐	1.000		3547019.25		A	1.8
8	☐	1.000		2796662.35		A	1.4

115 In (ISTD) [No Gas]

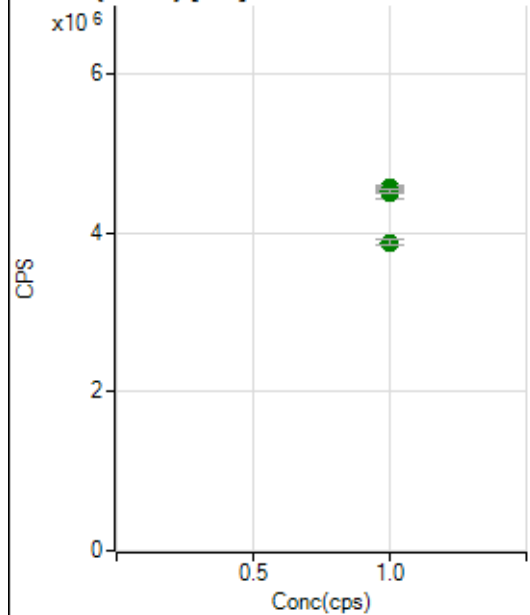
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11102281.89		A	11.9
2	☐	1.000		11138236.49		A	0.9
3	☐	1.000		11023032.83		A	0.9
4	☐	1.000		11113017.63		A	0.5
5	☐	1.000		11095219.44		A	0.5
6	☐	1.000		10937344.16		A	1.2
7	☐	1.000		10774777.50		A	0.6
8	☐	1.000		8990211.42		A	3.6

115 In (ISTD) [He]

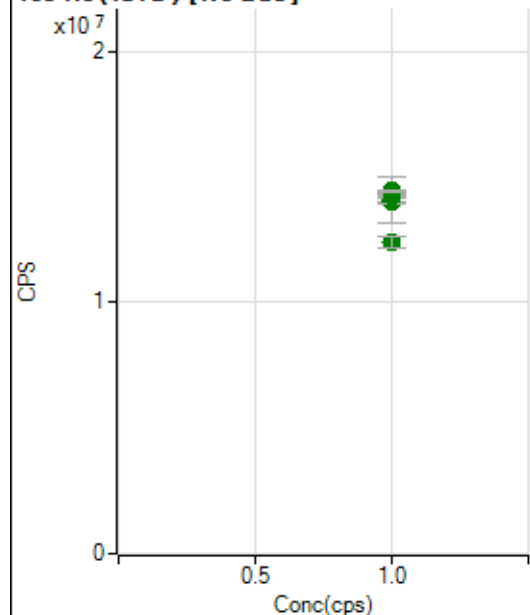
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1069508.92		P	0.4
2	☐	1.000		1042326.73		P	0.2
3	☐	1.000		1051776.19		P	0.7
4	☐	1.000		1029208.60		P	3.3
5	☐	1.000		1040696.80		P	0.6
6	☐	1.000		1022592.54		P	1.0
7	☐	1.000		990234.40		P	1.4
8	☐	1.000		839978.31		P	1.3

159 Tb (ISTD) [No Gas]

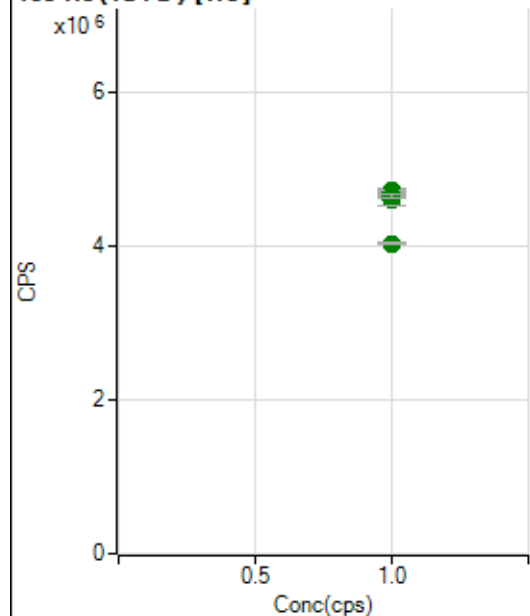
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14375280.48		A	13.3
2	☐	1.000		14391720.90		A	1.2
3	☐	1.000		14347749.51		A	1.0
4	☐	1.000		14594175.75		A	0.9
5	☐	1.000		14683852.84		A	0.6
6	☐	1.000		14803273.25		A	1.5
7	☐	1.000		14742674.64		A	0.5
8	☐	1.000		12715428.70		A	3.1

159 Tb (ISTD) [He]

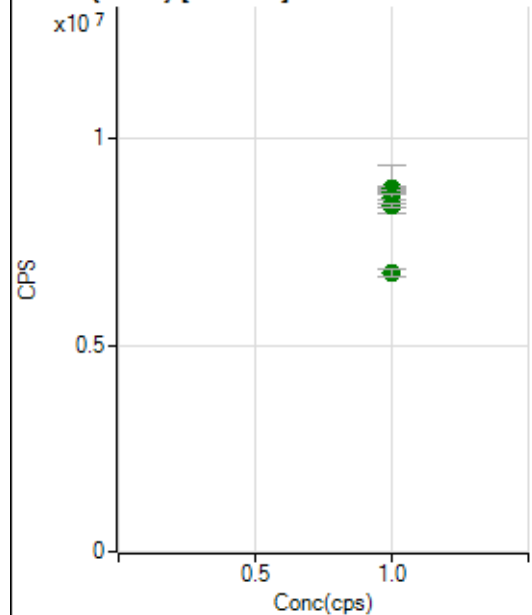
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4571228.51		A	1.4
2	☐	1.000		4510837.88		A	0.7
3	☐	1.000		4534275.14		A	1.5
4	☐	1.000		4497400.87		A	3.2
5	☐	1.000		4536951.56		A	1.6
6	☐	1.000		4509177.26		A	0.6
7	☐	1.000		4528995.24		A	1.3
8	☐	1.000		3881299.00		A	1.9

165 Ho (ISTD) [No Gas]

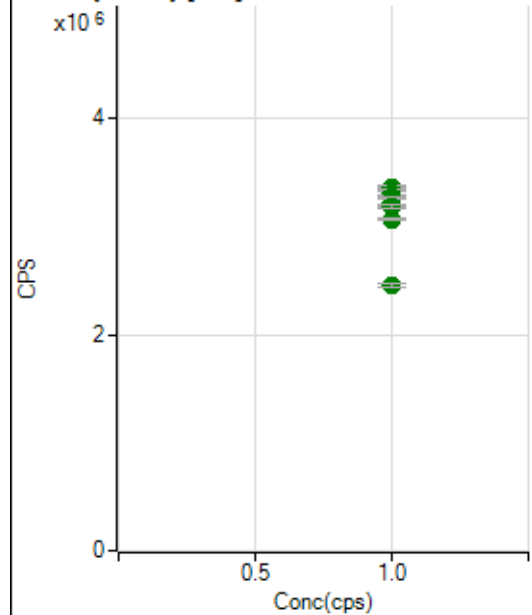
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14083860.90		A	12.6
2	☐	1.000		13990971.32		A	0.1
3	☐	1.000		14052124.51		A	1.5
4	☐	1.000		14276882.43		A	0.9
5	☐	1.000		14305625.20		A	0.9
6	☐	1.000		14423663.95		A	1.0
7	☐	1.000		14448899.23		A	0.7
8	☐	1.000		12413906.34		A	3.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4723781.42		A	1.6
2	☐	1.000		4658305.66		A	0.5
3	☐	1.000		4695298.19		A	1.5
4	☐	1.000		4616295.07		A	3.7
5	☐	1.000		4709989.24		A	0.2
6	☐	1.000		4703468.82		A	1.0
7	☐	1.000		4657659.24		A	1.2
8	☐	1.000		4034630.36		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8786559.80		A	13.1
2	☐	1.000		8778559.52		A	0.9
3	☐	1.000		8681611.67		A	0.5
4	☐	1.000		8785334.94		A	1.2
5	☐	1.000		8718401.26		A	0.8
6	☐	1.000		8590527.44		A	1.2
7	☐	1.000		8387302.44		A	0.9
8	☐	1.000		6766624.34		A	3.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3327025.96		A	2.2
2	☐	1.000		3355896.58		A	1.4
3	☐	1.000		3309949.36		A	1.8
4	☐	1.000		3220689.64		A	2.2
5	☐	1.000		3264692.04		A	0.9
6	☐	1.000		3182245.78		A	1.1
7	☐	1.000		3067295.58		A	1.0
8	☐	1.000		2457139.93		A	1.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012425MS.b
Acq. Date-Time 2025-01-24 08:56:54
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		27300	272995.41			0.772	5.000
24		543337	5433365.92			1.260	5.000
25		74118	741184.09			1.165	5.000
26		86410	864098.80			0.833	5.000
59		118424	1184238.00			0.825	5.000
113		13632	136323.30			0.720	5.000
115		179631	1796311.02			0.263	5.000
206		40475	404749.41			0.167	5.000
207		34980	349804.69			0.263	5.000
208		84737	847372.07			0.540	5.000
220		0	3.10			44.756	

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

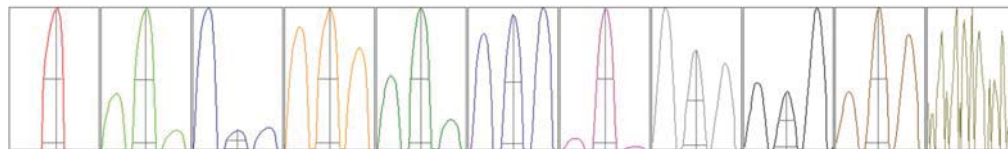
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	27661	27308	27171	27204	27154
24	553973	546353	538562	540141	537654
25	75021	74988	73560	73086	73937
26	87207	87132	86203	85675	85832
59	119593	117586	119247	117397	118296
113	13744	13717	13555	13628	13518
115	180117	179012	179368	179581	180079
206	40559	40434	40429	40416	40537
207	35099	34934	34992	35021	34856
208	84979	84876	84188	85293	84350

US EPA Tune Check Report

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	45994.53	9.10	8.90 - 9.10	
24	91887.97	24.00	23.90 - 24.10	
25	124805.68	25.00	24.90 - 25.10	
26	144801.89	26.05	25.90 - 26.10	
59	208949.23	59.00	58.90 - 59.10	
113	26561.67	113.05	112.90 - 113.10	
115	345126.52	115.05	114.90 - 115.10	
206	78285.37	206.00	205.90 - 206.10	
207	67909.56	206.95	206.90 - 207.10	
208	165102.55	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.741	0.900	
24	0.62	0.783	0.900	
25	0.63	0.784	0.900	
26	0.64	0.787	0.900	
59	0.60	0.739	0.900	
113	0.54	0.716	0.900	
115	0.55	0.761	0.900	
206	0.54	0.784	0.900	
207	0.53	0.778	0.900	
208	0.53	0.775	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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	-6.0 V	Omega Lens	7.8 V	Deflect	15.2 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm

EM

Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		19994	199938.75			0.283	
89		16388	163876.92			0.310	
205		21575	215748.24			0.333	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	20073	20013	20001	19927	19955
89	16448	16310	16393	16377	16411
205	21502	21630	21650	21495	21596

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	-6.0 V	Omega Lens	7.8 V	Deflect	2.0 V

US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	103	Axis Gain	0.9959	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		
Hardware Settings					
Torch					
Torch H	-0.2 mm	Torch V	1.5 mm		
EM					
Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P8
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:47:03 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.09	-0.24	0.33	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.02	0.03	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	-0.01	0.00	N/A	ppb
Barium	137-1	-0.01	0.03	-0.03	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	-0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.00	-0.02	0.00	N/A	ppb
Cadmium	106-1	0.58	-0.21	-0.37	0.00	N/A	ppb
Cadmium	111-1	0.01	0.00	-0.01	0.00	N/A	ppb
Calcium	43-1	-0.35	0.93	-0.58	0.00	N/A	ppb
Calcium	44-1	-0.37	1.57	-1.20	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	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	0.05	-0.04	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	54-2	0.65	-0.38	-0.27	0.00	N/A	ppb
Iron	56-2	-0.01	0.04	-0.03	0.00	N/A	ppb
Iron	57-2	-0.11	0.22	-0.11	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.02	-0.02	0.00	N/A	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P8
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:47:03 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.02	-0.02	0.00	N/A	ppb
Lead	208-1	0.00	0.02	-0.02	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.28	0.04	-0.32	0.00	N/A	ppb
Manganese	55-2	0.03	-0.03	-0.01	0.00	N/A	ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	-0.01	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	-0.06	0.02	0.05	0.00	N/A	ppb
Phosphorus	31-2	-18.69	-18.36	-15.92	-17.66		ppb
Potassium	39-2	0.43	-1.48	1.05	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.15	-0.29	0.15	0.00	N/A	ppb
Selenium	77-2	-0.36	0.72	-0.36	0.00	N/A	ppb
Selenium	78-2	0.10	-0.53	0.42	0.00	N/A	ppb
Silicon	28-1	-0.38	1.35	-0.97	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	-1.23	0.21	1.02	0.00	N/A	ppb
Strontium	86-1	-0.01	0.02	-0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-211.64	1091.95	-652.98	75.78	1197.31	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	0.02	-0.01	0.00	N/A	ppb
Titanium	47-1	-0.01	0.01	-0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P8
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:47:03 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	-0.01	0.09	-0.08	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00	N/A	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P8
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:53:49 DataFile Name : 006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.37	18.79	18.86	18.34	4.60	ppb
Antimony	121-1	1.85	1.86	1.88	1.86	0.83	ppb
Arsenic	75-2	0.95	1.12	1.02	1.03	8.23	ppb
Barium	135-1	9.18	9.51	9.70	9.46	2.78	ppb
Barium	137-1	9.32	9.53	9.38	9.41	1.11	ppb
Beryllium	9-1	0.92	0.98	0.97	0.96	3.19	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.04	1.03	0.87	0.98	9.45	ppb
Cadmium	106-1	1.06	0.85	0.20	0.70	63.35	ppb
Cadmium	111-1	1.02	1.04	0.98	1.01	2.91	ppb
Calcium	43-1	468.39	477.27	484.63	476.76	1.71	ppb
Calcium	44-1	476.54	477.85	485.60	480.00	1.02	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	1.86	0.29	ppb
Cobalt	59-2	1.04	1.03	1.02	1.03	0.86	ppb
Copper	63-2	2.04	2.10	2.09	2.08	1.47	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				99		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	51.19	52.37	51.30	51.62	1.26	ppb
Iron	56-2	51.25	50.90	51.38	51.18	0.48	ppb
Iron	57-2	49.36	54.11	46.64	50.04	7.55	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.88	0.91	0.89	2.02	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P8
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:53:49 DataFile Name : 006CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.94	0.93	0.90	0.92	2.34	ppb
Lead	208-1	0.89	0.90	0.91	0.90	1.31	ppb
Lithium	6-1				102		%
Magnesium	24-2	503.96	513.47	511.91	509.78	1.00	ppb
Manganese	55-2	0.92	1.05	0.94	0.97	7.55	ppb
Molybdenum	94-1	5.50	5.64	5.64	5.60	1.44	ppb
Molybdenum	95-1	4.60	4.58	4.66	4.61	0.91	ppb
Molybdenum	96-1	4.73	4.76	4.87	4.78	1.58	ppb
Molybdenum	97-1	4.68	4.75	4.76	4.73	0.96	ppb
Molybdenum	98-1	4.54	4.55	4.62	4.57	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.96	1.00	0.99	0.98	2.24	ppb
Phosphorus	31-2	25.44	14.70	12.84	17.66	38.52	ppb
Potassium	39-2	461.16	467.45	465.45	464.69	0.69	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				101		%
Scandium	45-2				98		%
Selenium	82-1	5.01	5.01	5.49	5.17	5.37	ppb
Selenium	77-2	7.40	9.54	7.32	8.09	15.55	ppb
Selenium	78-2	5.67	7.57	7.23	6.82	14.79	ppb
Silicon	28-1	0.97	0.89	1.10	0.99	10.59	ppb
Silver	107-1	0.94	0.93	0.95	0.94	0.76	ppb
Silver	109-1	0.94	0.94	0.96	0.95	0.90	ppb
Sodium	23-2	482.00	491.72	485.15	486.29	1.02	ppb
Strontium	86-1	0.94	0.91	0.95	0.94	2.23	ppb
Strontium	88-1	0.89	0.91	0.91	0.91	1.28	ppb
Sulfur	34-1	-109.46	-95.94	-21.93	-75.78		ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.86	0.88	0.90	0.88	2.57	ppb
Thallium	205-1	0.87	0.91	0.90	0.89	2.23	ppb
Tin	118-1	4.67	4.83	4.78	4.76	1.72	ppb
Titanium	47-1	4.72	4.78	4.82	4.77	1.07	ppb
Uranium	238-1	0.88	0.88	0.88	0.88	0.26	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P8
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:53:49 DataFile Name : 006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.71	4.73	4.53	4.66	2.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	4.97	5.24	4.38	4.86	9.10	ppb
Zirconium	90-1	0.90	0.94	0.93	0.92	2.11	ppb
Zirconium	91-1	0.92	0.93	0.93	0.93	0.51	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P8
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:57:11 DataFile Name : 007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1028.26	1033.98	1040.15	1034.13	0.58	ppb
Antimony	121-1	51.31	51.14	51.50	51.32	0.35	ppb
Arsenic	75-2	55.06	50.40	53.08	52.85	4.43	ppb
Barium	135-1	253.29	251.53	252.14	252.32	0.35	ppb
Barium	137-1	254.23	254.64	255.25	254.71	0.20	ppb
Beryllium	9-1	51.19	51.65	52.55	51.79	1.34	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	54.59	53.61	55.18	54.46	1.46	ppb
Cadmium	106-1	56.40	54.28	54.63	55.11	2.06	ppb
Cadmium	111-1	53.83	52.86	53.26	53.31	0.92	ppb
Calcium	43-1	5140.81	5187.54	5121.14	5149.83	0.66	ppb
Calcium	44-1	5260.79	5239.78	5200.22	5233.59	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.50	51.32	51.00	51.27	0.49	ppb
Cobalt	59-2	52.34	52.75	52.28	52.46	0.49	ppb
Copper	63-2	557.56	555.34	559.51	557.47	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				100		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	2696.52	2725.59	2713.37	2711.83	0.54	ppb
Iron	56-2	2759.63	2758.81	2715.00	2744.48	0.93	ppb
Iron	57-2	2618.12	2641.58	2633.02	2630.91	0.45	ppb
Krypton	83-1						cps
Lead	206-1	259.20	260.41	257.73	259.11	0.52	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P8
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:57:11 DataFile Name : 007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	261.50	257.91	258.90	259.44	0.71	ppb
Lead	208-1	258.29	257.80	259.96	258.68	0.44	ppb
Lithium	6-1				101		%
Magnesium	24-2	5403.92	5404.85	5400.40	5403.06	0.04	ppb
Manganese	55-2	511.96	517.78	509.99	513.24	0.79	ppb
Molybdenum	94-1	528.94	527.84	531.98	529.58	0.40	ppb
Molybdenum	95-1	520.51	525.75	518.61	521.62	0.71	ppb
Molybdenum	96-1	522.34	531.77	519.29	524.47	1.24	ppb
Molybdenum	97-1	530.14	527.11	525.72	527.66	0.43	ppb
Molybdenum	98-1	521.08	522.92	511.68	518.56	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	56.69	56.87	55.49	56.35	1.34	ppb
Phosphorus	31-2	1026.21	1097.54	1037.86	1053.87	3.63	ppb
Potassium	39-2	2506.63	2500.02	2473.10	2493.25	0.71	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	55.36	54.19	52.42	53.99	2.74	ppb
Selenium	77-2	50.32	56.26	57.06	54.54	6.75	ppb
Selenium	78-2	58.80	60.03	54.31	57.71	5.22	ppb
Silicon	28-1	52.19	53.35	51.59	52.38	1.71	ppb
Silver	107-1	53.21	52.94	53.48	53.21	0.51	ppb
Silver	109-1	53.17	52.71	53.96	53.28	1.19	ppb
Sodium	23-2	5414.52	5424.14	5416.72	5418.46	0.09	ppb
Strontium	86-1	50.63	50.72	50.51	50.62	0.21	ppb
Strontium	88-1	53.69	53.40	52.22	53.10	1.47	ppb
Sulfur	34-1	1177.49	1092.08	1090.38	1119.98	4.45	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	49.24	49.42	49.90	49.52	0.69	ppb
Thallium	205-1	49.08	49.61	49.09	49.26	0.62	ppb
Tin	118-1	52.15	51.98	51.90	52.01	0.24	ppb
Titanium	47-1	514.80	514.54	514.91	514.75	0.04	ppb
Uranium	238-1	50.73	50.16	50.61	50.50	0.59	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P8
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:57:11 DataFile Name : 007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	50.74	50.28	50.94	50.65	0.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	528.62	529.89	524.00	527.50	0.59	ppb
Zirconium	90-1	49.62	50.03	49.85	49.83	0.41	ppb
Zirconium	91-1	49.75	49.94	49.85	49.85	0.19	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P8
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:00:22 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2711.42	2613.60	2533.88	2619.64	3.39	ppb
Antimony	121-1	123.22	126.56	130.41	126.73	2.84	ppb
Arsenic	75-2	131.06	133.15	126.26	130.16	2.71	ppb
Barium	135-1	644.59	659.98	635.81	646.79	1.89	ppb
Barium	137-1	639.63	661.33	631.99	644.32	2.36	ppb
Beryllium	9-1	125.71	129.82	129.42	128.32	1.77	ppb
Bismuth	209-1				100		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	130.99	136.62	135.46	134.35	2.21	ppb
Cadmium	106-1	129.29	133.35	132.10	131.58	1.58	ppb
Cadmium	111-1	126.61	129.29	127.66	127.85	1.06	ppb
Calcium	43-1	12181.36	12554.18	12582.48	12439.34	1.80	ppb
Calcium	44-1	12390.62	12773.54	12734.73	12632.96	1.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	132.25	127.43	124.95	128.21	2.90	ppb
Cobalt	59-2	137.30	130.90	127.46	131.89	3.79	ppb
Copper	63-2	1454.95	1396.91	1366.94	1406.27	3.18	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				101		%
Holmium	165-2				98		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	7057.45	6769.03	6571.59	6799.36	3.59	ppb
Iron	56-2	7152.72	6903.39	6661.80	6905.97	3.55	ppb
Iron	57-2	6909.05	6569.30	6462.94	6647.10	3.51	ppb
Krypton	83-1						cps
Lead	206-1	624.23	628.32	621.97	624.84	0.52	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P8
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:00:22 DataFile Name : 008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	636.66	640.05	628.46	635.05	0.94	ppb
Lead	208-1	631.00	636.28	629.05	632.11	0.59	ppb
Lithium	6-1				100		%
Magnesium	24-2	14560.76	14042.95	13278.72	13960.81	4.62	ppb
Manganese	55-2	1450.17	1366.50	1308.01	1374.89	5.20	ppb
Molybdenum	94-1	1262.61	1281.20	1287.41	1277.08	1.01	ppb
Molybdenum	95-1	1281.87	1287.24	1260.10	1276.40	1.13	ppb
Molybdenum	96-1	1260.09	1291.70	1273.58	1275.12	1.24	ppb
Molybdenum	97-1	1273.53	1284.35	1285.78	1281.22	0.52	ppb
Molybdenum	98-1	1254.77	1288.86	1284.06	1275.90	1.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	144.40	139.05	136.85	140.10	2.77	ppb
Phosphorus	31-2	2855.98	2727.63	2632.27	2738.63	4.10	ppb
Potassium	39-2	6536.44	6235.71	6133.66	6301.94	3.32	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	130.42	134.69	136.25	133.79	2.25	ppb
Selenium	77-2	151.38	143.53	140.44	145.12	3.89	ppb
Selenium	78-2	137.93	143.77	138.71	140.14	2.26	ppb
Silicon	28-1	122.51	125.49	125.43	124.48	1.37	ppb
Silver	107-1	134.80	136.12	135.50	135.47	0.49	ppb
Silver	109-1	135.59	138.50	139.02	137.71	1.34	ppb
Sodium	23-2	14063.56	13266.47	13044.44	13458.16	3.98	ppb
Strontium	86-1	122.16	125.24	124.02	123.81	1.25	ppb
Strontium	88-1	127.12	131.30	128.34	128.92	1.67	ppb
Sulfur	34-1	2620.57	2803.25	2769.76	2731.20	3.56	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	119.10	122.55	120.30	120.65	1.45	ppb
Thallium	205-1	126.65	128.41	123.62	126.23	1.92	ppb
Tin	118-1	124.79	128.17	126.75	126.57	1.34	ppb
Titanium	47-1	1250.73	1323.26	1282.22	1285.41	2.83	ppb
Uranium	238-1	121.89	125.72	121.55	123.05	1.88	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P8
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:00:22 DataFile Name : 008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	132.85	127.94	123.97	128.25	3.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	1375.95	1324.51	1283.28	1327.91	3.50	ppb
Zirconium	90-1	126.02	128.49	127.11	127.21	0.97	ppb
Zirconium	91-1	120.47	123.44	122.91	122.27	1.30	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P8
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:03:22 DataFile Name : 009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5024.02	5062.85	5060.17	5049.01	0.43	ppb
Antimony	121-1	261.92	263.17	260.37	261.82	0.54	ppb
Arsenic	75-2	262.03	262.78	265.61	263.48	0.72	ppb
Barium	135-1	1307.98	1276.86	1277.66	1287.50	1.38	ppb
Barium	137-1	1300.60	1279.32	1271.94	1283.95	1.16	ppb
Beryllium	9-1	261.60	266.77	266.58	264.98	1.11	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	265.17	260.92	264.83	263.64	0.90	ppb
Cadmium	106-1	259.81	260.11	265.81	261.91	1.29	ppb
Cadmium	111-1	252.17	254.33	254.58	253.69	0.52	ppb
Calcium	43-1	25472.03	25182.09	26702.70	25785.61	3.13	ppb
Calcium	44-1	25460.21	25541.14	26043.04	25681.46	1.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	252.69	247.63	252.36	250.90	1.13	ppb
Cobalt	59-2	256.18	254.83	258.50	256.51	0.72	ppb
Copper	63-2	2747.61	2695.01	2720.47	2721.03	0.97	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				100		%
Indium	115-2				97		%
Iron	54-2	13757.72	13168.01	13298.57	13408.10	2.31	ppb
Iron	56-2	13366.95	13224.74	13540.41	13377.36	1.18	ppb
Iron	57-2	12846.95	12731.97	12989.84	12856.25	1.00	ppb
Krypton	83-1						cps
Lead	206-1	1265.12	1241.16	1269.96	1258.75	1.23	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P8
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:03:22 DataFile Name : 009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1254.69	1238.26	1273.29	1255.41	1.40	ppb
Lead	208-1	1263.52	1247.69	1279.50	1263.57	1.26	ppb
Lithium	6-1				99		%
Magnesium	24-2	26793.70	26730.21	26877.77	26800.56	0.28	ppb
Manganese	55-2	2682.62	2653.96	2679.83	2672.14	0.59	ppb
Molybdenum	94-1	2555.48	2533.81	2574.29	2554.53	0.79	ppb
Molybdenum	95-1	2566.39	2563.22	2576.82	2568.81	0.28	ppb
Molybdenum	96-1	2548.66	2598.13	2574.97	2573.92	0.96	ppb
Molybdenum	97-1	2534.93	2556.44	2555.33	2548.90	0.48	ppb
Molybdenum	98-1	2555.73	2544.91	2556.11	2552.25	0.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	270.18	269.18	273.27	270.87	0.79	ppb
Phosphorus	31-2	5238.80	5326.34	5158.82	5241.32	1.60	ppb
Potassium	39-2	12771.07	12777.97	12740.33	12763.13	0.16	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				100		%
Selenium	82-1	261.13	262.41	264.79	262.78	0.71	ppb
Selenium	77-2	269.06	238.49	274.82	260.79	7.49	ppb
Selenium	78-2	237.65	276.19	249.19	254.34	7.78	ppb
Silicon	28-1	254.54	253.15	258.90	255.53	1.17	ppb
Silver	107-1	269.56	267.74	268.66	268.65	0.34	ppb
Silver	109-1	267.83	269.93	268.39	268.72	0.41	ppb
Sodium	23-2	26499.46	26215.36	26361.94	26358.92	0.54	ppb
Strontium	86-1	246.34	247.95	249.48	247.92	0.63	ppb
Strontium	88-1	257.23	257.69	258.89	257.94	0.33	ppb
Sulfur	34-1	5989.62	6074.94	6178.97	6081.18	1.56	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	253.06	251.50	259.46	254.67	1.66	ppb
Thallium	205-1	250.34	249.43	252.40	250.72	0.61	ppb
Tin	118-1	263.22	263.86	265.56	264.22	0.46	ppb
Titanium	47-1	2554.07	2564.16	2614.41	2577.55	1.25	ppb
Uranium	238-1	244.36	245.42	251.64	247.14	1.59	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P8
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:03:22 DataFile Name : 009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	250.62	249.14	252.70	250.82	0.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	2572.28	2553.67	2582.71	2569.55	0.57	ppb
Zirconium	90-1	253.92	256.92	254.86	255.23	0.60	ppb
Zirconium	91-1	243.92	242.60	246.88	244.47	0.90	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P8
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:06:18 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10077.96	9953.91	9841.26	9957.71	1.19	ppb
Antimony	121-1	505.62	506.19	519.43	510.41	1.53	ppb
Arsenic	75-2	529.64	513.59	501.91	515.05	2.70	ppb
Barium	135-1	2529.23	2502.41	2579.76	2537.13	1.55	ppb
Barium	137-1	2531.50	2507.45	2557.60	2532.18	0.99	ppb
Beryllium	9-1	511.37	511.67	529.90	517.65	2.05	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	512.89	500.20	520.00	511.03	1.96	ppb
Cadmium	106-1	511.97	514.41	516.83	514.40	0.47	ppb
Cadmium	111-1	506.37	486.23	498.87	497.16	2.05	ppb
Calcium	43-1	49694.51	50557.22	52148.26	50800.00	2.45	ppb
Calcium	44-1	50324.67	49967.11	51665.76	50652.52	1.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	538.55	498.80	489.06	508.80	5.15	ppb
Cobalt	59-2	527.37	526.77	520.91	525.02	0.68	ppb
Copper	63-2	5406.28	5348.02	5195.81	5316.70	2.04	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				99		%
Indium	115-2				96		%
Iron	54-2	27377.01	27273.54	26723.63	27124.73	1.29	ppb
Iron	56-2	26910.02	26586.94	26011.14	26502.70	1.72	ppb
Iron	57-2	25614.99	25429.10	24996.41	25346.83	1.25	ppb
Krypton	83-1						cps
Lead	206-1	2511.09	2496.74	2558.49	2522.11	1.28	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P8
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:06:18 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2482.09	2507.94	2574.22	2521.42	1.88	ppb
Lead	208-1	2504.01	2495.72	2571.01	2523.58	1.64	ppb
Lithium	6-1				98		%
Magnesium	24-2	53533.98	53117.11	52103.57	52918.22	1.39	ppb
Manganese	55-2	5307.24	5206.30	5163.00	5225.51	1.42	ppb
Molybdenum	94-1	4969.65	5082.21	5171.08	5074.31	1.99	ppb
Molybdenum	95-1	4985.01	5087.33	5210.63	5094.33	2.22	ppb
Molybdenum	96-1	5030.11	5108.72	5209.60	5116.14	1.76	ppb
Molybdenum	97-1	4988.11	5079.73	5114.84	5060.89	1.29	ppb
Molybdenum	98-1	5013.51	5063.81	5131.42	5069.58	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	535.89	532.37	523.23	530.50	1.23	ppb
Phosphorus	31-2	10539.36	10252.30	10482.17	10424.61	1.46	ppb
Potassium	39-2	25810.20	25374.62	25226.49	25470.43	1.19	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	507.80	519.90	526.71	518.14	1.85	ppb
Selenium	77-2	559.20	498.48	492.50	516.73	7.14	ppb
Selenium	78-2	529.09	512.38	497.33	512.93	3.10	ppb
Silicon	28-1	462.74	454.30	466.98	461.34	1.40	ppb
Silver	107-1	517.75	512.24	521.09	517.03	0.86	ppb
Silver	109-1	512.21	512.85	529.65	518.24	1.91	ppb
Sodium	23-2	52788.32	52241.75	51714.87	52248.31	1.03	ppb
Strontium	86-1	508.87	519.58	514.51	514.32	1.04	ppb
Strontium	88-1	502.23	508.74	514.67	508.55	1.22	ppb
Sulfur	34-1	10154.25	9733.55	10212.94	10033.58	2.61	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	507.40	504.53	513.28	508.40	0.88	ppb
Thallium	205-1	501.38	496.92	506.75	501.68	0.98	ppb
Tin	118-1	508.60	507.82	515.53	510.65	0.83	ppb
Titanium	47-1	5086.58	5031.19	5201.69	5106.48	1.70	ppb
Uranium	238-1	501.03	497.19	513.00	503.74	1.64	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P8
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:06:18 DataFile Name : 010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	503.50	502.76	493.57	499.94	1.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	5319.97	5312.86	5264.68	5299.17	0.57	ppb
Zirconium	90-1	494.46	501.25	513.52	503.08	1.92	ppb
Zirconium	91-1	499.80	514.93	525.11	513.28	2.48	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P8
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:09:07 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18924.42	18649.46	18995.44	18856.44	0.97	ppb
Antimony	121-1	988.72	993.70	992.25	991.56	0.26	ppb
Arsenic	75-2	1012.80	968.60	983.57	988.32	2.27	ppb
Barium	135-1	4981.12	4966.62	4959.92	4969.22	0.22	ppb
Barium	137-1	4998.73	5006.55	4913.04	4972.77	1.04	ppb
Beryllium	9-1	977.08	987.85	995.85	986.93	0.95	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	984.83	995.72	988.50	989.68	0.56	ppb
Cadmium	106-1	985.28	999.00	981.95	988.74	0.91	ppb
Cadmium	111-1	988.33	1005.67	1005.92	999.98	1.01	ppb
Calcium	43-1	98101.25	97575.25	100298.97	98658.49	1.46	ppb
Calcium	44-1	98077.30	98394.06	98833.61	98434.99	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	998.37	992.10	994.26	994.91	0.32	ppb
Cobalt	59-2	996.30	974.33	984.01	984.88	1.12	ppb
Copper	63-2	9801.77	9663.57	9826.62	9763.99	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				103		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	54-2	51579.98	50495.12	51219.07	51098.06	1.08	ppb
Iron	56-2	50608.69	49382.40	50225.54	50072.21	1.25	ppb
Iron	57-2	50755.25	49189.95	50960.42	50301.88	1.93	ppb
Krypton	83-1						cps
Lead	206-1	5007.31	4984.36	4967.30	4986.32	0.40	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P8
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:09:07 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5055.45	4915.84	4987.34	4986.21	1.40	ppb
Lead	208-1	5034.99	4959.34	4956.15	4983.49	0.90	ppb
Lithium	6-1				96		%
Magnesium	24-2	100071.97	100407.58	101039.06	100506.20	0.49	ppb
Manganese	55-2	9860.09	9715.77	9907.94	9827.94	1.02	ppb
Molybdenum	94-1	9895.62	9954.86	9982.56	9944.35	0.45	ppb
Molybdenum	95-1	9893.78	9932.28	9967.70	9931.25	0.37	ppb
Molybdenum	96-1	9815.46	9936.33	10005.47	9919.09	0.97	ppb
Molybdenum	97-1	9878.72	9959.92	10017.49	9952.04	0.70	ppb
Molybdenum	98-1	9941.57	9965.15	9937.24	9947.98	0.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	976.71	967.71	987.56	977.33	1.02	ppb
Phosphorus	31-2	19422.12	19651.16	20011.25	19694.84	1.51	ppb
Potassium	39-2	47822.30	47980.95	49101.17	48301.47	1.44	ppb
Rhodium	103-1				95		%
Rhodium	103-2				92		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	982.12	983.65	993.54	986.44	0.63	ppb
Selenium	77-2	1059.35	957.69	941.50	986.18	6.48	ppb
Selenium	78-2	986.50	978.63	1005.35	990.16	1.39	ppb
Silicon	28-1	1024.42	1019.07	1010.47	1017.98	0.69	ppb
Silver	107-1	992.00	987.30	976.76	985.35	0.79	ppb
Silver	109-1	975.24	991.14	986.97	984.45	0.84	ppb
Sodium	23-2	99762.42	99237.29	98893.94	99297.88	0.44	ppb
Strontium	86-1	989.82	999.91	990.70	993.48	0.56	ppb
Strontium	88-1	993.01	988.72	997.56	993.10	0.45	ppb
Sulfur	34-1	20015.53	19452.89	19565.64	19678.02	1.51	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	1001.02	995.88	988.69	995.20	0.62	ppb
Thallium	205-1	1000.44	1001.62	994.52	998.86	0.38	ppb
Tin	118-1	990.46	994.67	987.34	990.82	0.37	ppb
Titanium	47-1	9861.87	9892.82	10011.93	9922.21	0.80	ppb
Uranium	238-1	1007.28	1002.57	987.35	999.06	1.04	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P8
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:09:07 DataFile Name : 011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	994.83	990.96	1012.37	999.39	1.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				101		%
Zinc	66-2	9833.72	9695.31	9936.71	9821.91	1.23	ppb
Zirconium	90-1	995.99	1002.34	992.32	996.88	0.51	ppb
Zirconium	91-1	1001.19	996.65	987.44	995.09	0.70	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P8
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:11:54 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	98890.75	101178.00	100612.73	100227.16	1.19	ppb
Antimony	121-1	0.36	0.32	0.32	0.33	7.21	ppb
Arsenic	75-2	0.62	0.46	0.45	0.51	18.23	ppb
Barium	135-1	2.52	2.30	2.29	2.37	5.48	ppb
Barium	137-1	2.49	2.43	2.18	2.37	6.99	ppb
Beryllium	9-1	0.30	0.26	0.25	0.27	8.99	ppb
Bismuth	209-1				77		%
Bismuth	209-2				74		%
Bromine	81-1						cps
Cadmium	108-1	0.72	0.66	0.57	0.65	11.18	ppb
Cadmium	106-1	-1.82	-1.27	-0.48	-1.19		ppb
Cadmium	111-1	0.26	0.24	0.25	0.25	3.87	ppb
Calcium	43-1	503805.42	501655.67	494986.10	500149.06	0.92	ppb
Calcium	44-1	503114.37	499429.27	498080.47	500208.04	0.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.68	1.38	2.36	1.81	28.01	ppb
Cobalt	59-2	2.02	2.09	1.94	2.02	3.73	ppb
Copper	63-2	1.65	1.81	1.79	1.75	4.96	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				88		%
Holmium	165-2				85		%
Indium	115-1				81		%
Indium	115-2				79		%
Iron	54-2	245749.93	254362.71	248407.34	249506.66	1.77	ppb
Iron	56-2	246788.99	253579.86	248948.88	249772.58	1.39	ppb
Iron	57-2	244145.20	256611.70	248870.78	249875.89	2.52	ppb
Krypton	83-1						cps
Lead	206-1	1.05	1.00	0.94	1.00	5.09	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P8
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:11:54 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.03	1.04	0.90	0.99	7.93	ppb
Lead	208-1	1.03	1.01	0.94	1.00	4.53	ppb
Lithium	6-1				79		%
Magnesium	24-2	489635.22	506472.10	502321.73	499476.35	1.76	ppb
Manganese	55-2	4.44	4.37	3.97	4.26	5.98	ppb
Molybdenum	94-1	2.87	2.79	2.62	2.76	4.71	ppb
Molybdenum	95-1	2.01	1.84	1.81	1.89	5.70	ppb
Molybdenum	96-1	2.52	2.45	2.35	2.44	3.47	ppb
Molybdenum	97-1	1.77	1.63	1.60	1.66	5.47	ppb
Molybdenum	98-1	1.60	1.59	1.48	1.56	4.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.19	2.21	2.19	2.20	0.34	ppb
Phosphorus	31-2	-3.20	-8.84	-17.71	-9.92		ppb
Potassium	39-2	246306.59	252151.47	252376.97	250278.35	1.38	ppb
Rhodium	103-1				75		%
Rhodium	103-2				73		%
Scandium	45-1				85		%
Scandium	45-2				81		%
Selenium	82-1	0.39	0.00	0.55	0.31	90.08	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.15	-0.53	0.24	-0.15		ppb
Silicon	28-1	4.12	3.58	3.39	3.69	10.27	ppb
Silver	107-1	0.14	0.14	0.13	0.13	4.75	ppb
Silver	109-1	0.15	0.14	0.12	0.14	9.13	ppb
Sodium	23-2	489789.88	509829.37	499839.31	499819.52	2.00	ppb
Strontium	86-1	2.99	3.08	3.06	3.05	1.50	ppb
Strontium	88-1	3.07	3.12	3.11	3.10	0.86	ppb
Sulfur	34-1	-379.46	-397.02	-287.72	-354.74		ppb
Terbium	159-1				88		%
Terbium	159-2				85		%
Thallium	203-1	0.11	0.10	0.09	0.10	8.56	ppb
Thallium	205-1	0.10	0.09	0.08	0.09	13.38	ppb
Tin	118-1	0.21	0.21	0.18	0.20	8.42	ppb
Titanium	47-1	3.84	3.93	3.74	3.84	2.43	ppb
Uranium	238-1	0.10	0.08	0.08	0.09	10.97	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P8
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:11:54 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.28	0.33	0.29	0.30	9.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				86		%
Yttrium	89-2				83		%
Zinc	66-2	3.11	3.71	3.72	3.51	9.99	ppb
Zirconium	90-1	0.57	0.58	0.56	0.57	1.76	ppb
Zirconium	91-1	0.60	0.60	0.58	0.59	1.62	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P8
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:23:25 DataFile Name : 013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	474.10	471.20	479.16	474.82	0.85	ppb
Antimony	121-1	197.67	198.74	204.52	200.31	1.84	ppb
Arsenic	75-2	202.26	202.84	201.62	202.24	0.30	ppb
Barium	135-1	95.98	95.79	99.58	97.11	2.20	ppb
Barium	137-1	97.15	97.07	100.34	98.19	1.90	ppb
Beryllium	9-1	91.65	95.50	94.48	93.88	2.13	ppb
Bismuth	209-1				95		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	177.44	177.82	184.01	179.76	2.05	ppb
Cadmium	106-1	187.63	190.44	195.64	191.24	2.13	ppb
Cadmium	111-1	98.10	97.89	102.23	99.41	2.46	ppb
Calcium	43-1	2048.53	2079.18	2133.88	2087.20	2.07	ppb
Calcium	44-1	2071.20	2131.19	2172.28	2124.89	2.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.18	95.61	95.20	95.66	0.51	ppb
Cobalt	59-2	99.83	98.18	98.64	98.89	0.86	ppb
Copper	63-2	106.01	104.68	104.94	105.21	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				94		%
Holmium	165-2				97		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	2130.35	2121.11	2105.87	2119.11	0.58	ppb
Iron	56-2	2118.20	2081.64	2101.11	2100.32	0.87	ppb
Iron	57-2	2039.54	2002.98	2014.92	2019.15	0.92	ppb
Krypton	83-1						cps
Lead	206-1	200.94	203.78	201.27	201.99	0.77	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P8
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:23:25 DataFile Name : 013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	180.48	182.27	184.77	182.51	1.18	ppb
Lead	208-1	192.98	196.10	197.08	195.39	1.10	ppb
Lithium	6-1				99		%
Magnesium	24-2	1172.37	1149.54	1159.48	1160.46	0.99	ppb
Manganese	55-2	99.56	98.04	97.95	98.52	0.92	ppb
Molybdenum	94-1	4851.74	4820.96	4868.49	4847.06	0.50	ppb
Molybdenum	95-1	4751.97	4785.26	4762.51	4766.58	0.36	ppb
Molybdenum	96-1	4754.97	4793.32	4836.66	4794.98	0.85	ppb
Molybdenum	97-1	4740.49	4799.35	4821.41	4787.08	0.87	ppb
Molybdenum	98-1	4779.45	4758.08	4796.62	4778.05	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	106.79	104.98	105.11	105.63	0.95	ppb
Phosphorus	31-2	-23.44	-14.89	-25.09	-21.14		ppb
Potassium	39-2	1875.98	1850.34	1827.56	1851.29	1.31	ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	204.36	203.35	204.64	204.12	0.33	ppb
Selenium	77-2	206.10	177.42	206.51	196.68	8.48	ppb
Selenium	78-2	199.44	181.09	212.05	197.53	7.88	ppb
Silicon	28-1	95.15	96.12	97.29	96.19	1.11	ppb
Silver	107-1	46.75	47.13	48.52	47.47	1.97	ppb
Silver	109-1	46.38	46.39	48.49	47.09	2.57	ppb
Sodium	23-2	1946.10	1928.16	1920.54	1931.60	0.68	ppb
Strontium	86-1	477.60	482.96	492.25	484.27	1.53	ppb
Strontium	88-1	479.21	478.68	483.87	480.59	0.59	ppb
Sulfur	34-1	-536.46	-549.40	-390.14	-492.00		ppb
Terbium	159-1				95		%
Terbium	159-2				97		%
Thallium	203-1	193.71	192.41	193.17	193.09	0.34	ppb
Thallium	205-1	192.96	188.13	193.07	191.38	1.47	ppb
Tin	118-1	516.34	514.56	531.11	520.67	1.75	ppb
Titanium	47-1	4710.11	4786.38	4873.28	4789.92	1.70	ppb
Uranium	238-1	464.40	472.38	475.02	470.60	1.18	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P8
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:23:25 DataFile Name : 013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	93.28	91.43	92.18	92.29	1.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				95		%
Zinc	66-2	202.44	197.46	199.63	199.84	1.25	ppb
Zirconium	90-1	501.79	496.60	506.67	501.69	1.00	ppb
Zirconium	91-1	504.66	511.31	515.01	510.33	1.03	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P8
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:30:12 DataFile Name : 015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.48	-0.01	-0.11	0.12	266.65	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	1.72	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	0.08	0.03	0.04	0.05	53.77	ppb
Barium	137-1	0.07	0.07	0.07	0.07	3.34	ppb
Beryllium	9-1	0.05	0.04	0.05	0.05	17.31	ppb
Bismuth	209-1				96		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.07	0.04	0.00		ppb
Cadmium	106-1	0.01	-1.24	-1.00	-0.75		ppb
Cadmium	111-1	0.00	-0.02	-0.02	-0.01		ppb
Calcium	43-1	0.31	1.03	1.36	0.90	60.09	ppb
Calcium	44-1	-0.70	-0.67	-0.38	-0.58		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.02	0.01	0.00		ppb
Cobalt	59-2	0.01	0.01	0.02	0.01	35.88	ppb
Copper	63-2	0.09	0.09	0.07	0.08	12.77	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				96		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	54-2	1.96	1.20	1.37	1.51	26.42	ppb
Iron	56-2	0.41	0.65	0.56	0.54	23.17	ppb
Iron	57-2	0.09	0.11	0.17	0.12	31.81	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.07	0.07	0.07	4.78	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P8
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:30:12 DataFile Name : 015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.06	0.05	0.06	10.61	ppb
Lead	208-1	0.07	0.07	0.06	0.07	6.77	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.28	0.03	0.33	0.03	1150.64	ppb
Manganese	55-2	0.14	0.09	0.09	0.11	23.67	ppb
Molybdenum	94-1	0.04	0.04	0.02	0.03	38.00	ppb
Molybdenum	95-1	0.03	0.02	0.04	0.03	32.69	ppb
Molybdenum	96-1	0.04	0.03	0.04	0.03	12.78	ppb
Molybdenum	97-1	0.03	0.04	0.03	0.03	10.75	ppb
Molybdenum	98-1	0.03	0.03	0.04	0.03	6.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.04	-0.10	-0.05		ppb
Phosphorus	31-2	-13.42	-4.45	-12.57	-10.14		ppb
Potassium	39-2	5.97	3.61	1.12	3.57	67.92	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	0.28	0.05	0.35	0.23	68.15	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.47	-0.53	0.45	0.13	439.56	ppb
Silicon	28-1	0.06	-0.06	0.02	0.01	1048.05	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.14	ppb
Silver	109-1	0.01	0.01	0.01	0.01	30.37	ppb
Sodium	23-2	9.19	8.69	7.78	8.55	8.34	ppb
Strontium	86-1	0.00	0.01	0.00	0.00	186.61	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	60.96	ppb
Sulfur	34-1	-238.99	-326.68	-204.71	-256.79		ppb
Terbium	159-1				95		%
Terbium	159-2				97		%
Thallium	203-1	0.01	0.00	0.01	0.01	31.72	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.71	ppb
Tin	118-1	0.02	0.03	0.02	0.02	13.00	ppb
Titanium	47-1	0.06	0.06	0.05	0.06	11.14	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	14.43	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P8
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:30:12 DataFile Name : 015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	0.27	0.13	0.13	0.18	45.87	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	448.14	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	48.19	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P8
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:33:35 DataFile Name : 016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	87110.80	100075.92	111924.23	99703.65	12.45	ppb
Antimony	121-1	0.98	1.00	1.03	1.00	2.69	ppb
Arsenic	75-2	0.25	0.22	0.32	0.26	18.51	ppb
Barium	135-1	1.39	1.36	1.43	1.39	2.43	ppb
Barium	137-1	1.32	1.44	1.39	1.39	4.25	ppb
Beryllium	9-1	0.29	0.29	0.33	0.30	6.28	ppb
Bismuth	209-1				90		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	14.88	14.42	14.11	14.47	2.67	ppb
Cadmium	106-1	-1.73	-1.76	-2.42	-1.97		ppb
Cadmium	111-1	0.51	0.61	0.50	0.54	11.40	ppb
Calcium	43-1	93553.44	96604.08	98713.79	96290.44	2.69	ppb
Calcium	44-1	92508.51	95551.48	97741.29	95267.09	2.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.55	19.88	22.22	19.88	11.76	ppb
Cobalt	59-2	1.01	1.20	1.35	1.19	14.65	ppb
Copper	63-2	7.39	8.85	9.48	8.57	12.48	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				91		%
Indium	115-1				95		%
Indium	115-2				86		%
Iron	54-2	97368.93	110604.21	122364.90	110112.68	11.36	ppb
Iron	56-2	97203.48	111230.14	123502.29	110645.30	11.89	ppb
Iron	57-2	94991.79	111201.53	122883.11	109692.15	12.77	ppb
Krypton	83-1						cps
Lead	206-1	4.43	4.46	4.58	4.49	1.83	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P8
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:33:35 DataFile Name : 016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.04	4.02	4.24	4.10	3.03	ppb
Lead	208-1	4.12	4.15	4.32	4.20	2.61	ppb
Lithium	6-1				94		%
Magnesium	24-2	90635.41	103944.50	117052.11	103877.34	12.72	ppb
Manganese	55-2	6.78	7.86	8.71	7.78	12.40	ppb
Molybdenum	94-1	1507.84	1517.79	1587.82	1537.82	2.83	ppb
Molybdenum	95-1	1840.78	1891.13	1938.68	1890.20	2.59	ppb
Molybdenum	96-1	1788.27	1852.39	1892.75	1844.47	2.86	ppb
Molybdenum	97-1	1839.91	1882.40	1937.74	1886.68	2.60	ppb
Molybdenum	98-1	1827.01	1879.20	1944.37	1883.53	3.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.88	5.33	6.35	5.52	13.63	ppb
Phosphorus	31-2	97435.96	109997.55	122617.16	110016.89	11.44	ppb
Potassium	39-2	91262.00	105300.33	117001.22	104521.19	12.33	ppb
Rhodium	103-1				91		%
Rhodium	103-2				83		%
Scandium	45-1				99		%
Scandium	45-2				90		%
Selenium	82-1	-0.03	0.27	0.20	0.15	108.16	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.08	-0.18	0.67	0.19	229.86	ppb
Silicon	28-1	4.63	4.84	4.99	4.82	3.78	ppb
Silver	107-1	0.07	0.06	0.05	0.06	15.27	ppb
Silver	109-1	0.08	0.06	0.05	0.06	25.04	ppb
Sodium	23-2	95561.62	108144.58	120543.71	108083.30	11.56	ppb
Strontium	86-1	28.93	30.01	30.89	29.94	3.27	ppb
Strontium	88-1	29.23	29.96	30.96	30.05	2.89	ppb
Sulfur	34-1	96255.12	97252.37	100305.04	97937.51	2.15	ppb
Terbium	159-1				99		%
Terbium	159-2				89		%
Thallium	203-1	0.09	0.10	0.11	0.10	9.14	ppb
Thallium	205-1	0.08	0.10	0.11	0.10	13.14	ppb
Tin	118-1	0.11	0.14	0.17	0.14	19.91	ppb
Titanium	47-1	1973.68	2035.83	2057.19	2022.23	2.15	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	9.80	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P8
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:33:35 DataFile Name : 016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.16	0.14	0.14	9.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				92		%
Zinc	66-2	10.39	10.63	13.18	11.40	13.56	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	38.81	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	24.69	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P8
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:36:45 DataFile Name : 017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92524.11	91654.00	91055.44	91744.52	0.80	ppb
Antimony	121-1	19.86	20.18	20.34	20.13	1.20	ppb
Arsenic	75-2	21.73	19.77	20.99	20.83	4.76	ppb
Barium	135-1	21.18	20.99	21.18	21.11	0.51	ppb
Barium	137-1	21.18	21.05	21.28	21.17	0.55	ppb
Beryllium	9-1	20.22	20.38	20.37	20.32	0.43	ppb
Bismuth	209-1				91		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	35.72	35.58	35.74	35.68	0.25	ppb
Cadmium	106-1	20.90	23.95	22.86	22.57	6.85	ppb
Cadmium	111-1	19.23	19.54	19.02	19.26	1.35	ppb
Calcium	43-1	98679.16	96390.78	95125.08	96731.67	1.86	ppb
Calcium	44-1	97522.53	96374.60	97323.72	97073.62	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.44	37.27	37.06	37.26	0.50	ppb
Cobalt	59-2	20.40	20.41	20.38	20.40	0.07	ppb
Copper	63-2	27.57	27.68	27.63	27.63	0.21	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				98		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	54-2	102513.73	101265.38	100815.51	101531.54	0.87	ppb
Iron	56-2	103130.17	101479.51	100047.86	101552.51	1.52	ppb
Iron	57-2	101939.59	102743.89	102175.30	102286.26	0.40	ppb
Krypton	83-1						cps
Lead	206-1	24.48	24.38	24.99	24.61	1.33	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P8
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:36:45 DataFile Name : 017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.50	23.67	24.04	23.74	1.17	ppb
Lead	208-1	23.68	23.86	24.23	23.92	1.18	ppb
Lithium	6-1				93		%
Magnesium	24-2	95658.89	95324.03	96040.90	95674.61	0.37	ppb
Manganese	55-2	26.96	26.42	26.96	26.78	1.18	ppb
Molybdenum	94-1	1693.74	1720.57	1724.13	1712.81	0.97	ppb
Molybdenum	95-1	1986.98	1986.80	1979.52	1984.43	0.21	ppb
Molybdenum	96-1	1946.44	1970.59	1960.32	1959.12	0.62	ppb
Molybdenum	97-1	1974.21	1981.07	1987.58	1980.96	0.34	ppb
Molybdenum	98-1	1996.69	1993.10	2005.06	1998.28	0.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.68	25.18	24.67	25.18	1.99	ppb
Phosphorus	31-2	102670.83	101891.28	100699.59	101753.90	0.98	ppb
Potassium	39-2	97292.41	96548.75	96050.65	96630.60	0.65	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	21.09	20.50	21.49	21.03	2.36	ppb
Selenium	77-2	24.81	27.98	11.63	21.48	40.38	ppb
Selenium	78-2	19.12	19.86	19.68	19.56	1.99	ppb
Silicon	28-1	13.49	12.81	13.44	13.25	2.85	ppb
Silver	107-1	17.79	18.04	18.03	17.96	0.81	ppb
Silver	109-1	18.07	18.09	18.21	18.12	0.42	ppb
Sodium	23-2	100470.89	101097.57	99120.63	100229.70	1.01	ppb
Strontium	86-1	71.96	72.18	72.09	72.08	0.16	ppb
Strontium	88-1	76.22	75.42	75.16	75.60	0.73	ppb
Sulfur	34-1	99312.79	97454.73	98834.62	98534.05	0.98	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	19.49	19.63	19.95	19.69	1.19	ppb
Thallium	205-1	19.40	19.69	19.98	19.69	1.47	ppb
Tin	118-1	43.37	43.62	43.43	43.48	0.31	ppb
Titanium	47-1	2067.92	2060.35	2061.64	2063.30	0.20	ppb
Uranium	238-1	45.91	46.37	47.63	46.64	1.91	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P8
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:36:45 DataFile Name : 017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.56	18.89	18.78	19.08	2.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	30.40	29.77	29.41	29.86	1.68	ppb
Zirconium	90-1	43.29	43.28	43.82	43.46	0.70	ppb
Zirconium	91-1	43.31	43.75	43.41	43.49	0.53	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P8
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:41:13 DataFile Name : 018CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52004.10	51510.36	51459.87	51658.11	0.58	ppb
Antimony	121-1	514.07	525.77	517.30	519.05	1.16	ppb
Arsenic	75-2	527.48	515.65	517.99	520.37	1.20	ppb
Barium	135-1	2609.02	2614.25	2638.01	2620.43	0.59	ppb
Barium	137-1	2635.64	2651.17	2633.88	2640.23	0.36	ppb
Beryllium	9-1	553.46	548.39	544.02	548.62	0.86	ppb
Bismuth	209-1				85		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	507.68	511.25	510.81	509.91	0.38	ppb
Cadmium	106-1	510.04	512.26	513.88	512.06	0.38	ppb
Cadmium	111-1	473.50	480.77	481.02	478.43	0.89	ppb
Calcium	43-1	258175.36	253676.79	252669.28	254840.48	1.15	ppb
Calcium	44-1	259763.06	255220.09	256222.20	257068.45	0.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	502.29	491.09	487.70	493.69	1.55	ppb
Cobalt	59-2	515.43	507.65	497.16	506.75	1.81	ppb
Copper	63-2	5011.73	4980.75	4864.95	4952.48	1.56	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				96		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				87		%
Iron	54-2	132114.07	129309.98	127044.29	129489.45	1.96	ppb
Iron	56-2	132054.69	130066.73	127563.77	129895.06	1.73	ppb
Iron	57-2	130170.30	128571.13	127070.63	128604.02	1.21	ppb
Krypton	83-1						cps
Lead	206-1	2659.56	2679.15	2643.24	2660.65	0.68	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P8
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:41:13 DataFile Name : 018CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2647.12	2670.58	2621.23	2646.31	0.93	ppb
Lead	208-1	2672.04	2673.22	2636.62	2660.63	0.78	ppb
Lithium	6-1				86		%
Magnesium	24-2	258049.27	258507.72	252075.58	256210.86	1.40	ppb
Manganese	55-2	5279.96	5159.67	5108.38	5182.67	1.70	ppb
Molybdenum	94-1	5361.05	5301.79	5279.39	5314.08	0.79	ppb
Molybdenum	95-1	5259.61	5246.56	5259.48	5255.22	0.14	ppb
Molybdenum	96-1	5267.53	5315.98	5347.00	5310.17	0.75	ppb
Molybdenum	97-1	5284.05	5247.33	5299.06	5276.82	0.50	ppb
Molybdenum	98-1	5254.35	5246.46	5254.80	5251.87	0.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	505.81	502.00	492.87	500.23	1.33	ppb
Phosphorus	31-2	10543.14	10240.11	10026.39	10269.88	2.53	ppb
Potassium	39-2	129057.33	127154.54	125523.36	127245.08	1.39	ppb
Rhodium	103-1				86		%
Rhodium	103-2				84		%
Scandium	45-1				94		%
Scandium	45-2				94		%
Selenium	82-1	508.77	503.59	508.68	507.01	0.58	ppb
Selenium	77-2	536.98	475.59	511.02	507.86	6.07	ppb
Selenium	78-2	507.66	499.40	500.13	502.40	0.91	ppb
Silicon	28-1	815.24	800.35	796.07	803.89	1.25	ppb
Silver	107-1	497.72	496.98	495.45	496.71	0.23	ppb
Silver	109-1	502.25	504.37	507.65	504.76	0.54	ppb
Sodium	23-2	255773.86	257067.43	252375.39	255072.22	0.95	ppb
Strontium	86-1	533.15	529.41	529.80	530.79	0.39	ppb
Strontium	88-1	526.44	521.90	529.89	526.08	0.76	ppb
Sulfur	34-1	10910.87	10753.53	10708.14	10790.85	0.99	ppb
Terbium	159-1				95		%
Terbium	159-2				93		%
Thallium	203-1	543.38	538.26	532.57	538.07	1.01	ppb
Thallium	205-1	539.45	537.28	525.83	534.19	1.37	ppb
Tin	118-1	515.74	519.01	527.13	520.62	1.13	ppb
Titanium	47-1	5421.75	5333.35	5186.51	5313.87	2.24	ppb
Uranium	238-1	549.15	544.24	540.71	544.70	0.78	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P8
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:41:13 DataFile Name : 018CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.10	505.56	498.15	504.94	1.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				93		%
Zinc	66-2	4997.33	5038.21	4891.59	4975.71	1.52	ppb
Zirconium	90-1	531.95	530.74	528.33	530.34	0.35	ppb
Zirconium	91-1	537.78	541.29	533.19	537.42	0.76	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P8
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:45:39 DataFile Name : 019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.05	1.18	0.89	1.04	14.02	ppb
Antimony	121-1	0.06	0.05	0.05	0.06	11.91	ppb
Arsenic	75-2	0.02	0.01	0.01	0.02	48.57	ppb
Barium	135-1	0.19	0.20	0.20	0.20	3.25	ppb
Barium	137-1	0.19	0.19	0.16	0.18	9.06	ppb
Beryllium	9-1	0.08	0.10	0.10	0.09	7.93	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.02	0.01	0.00		ppb
Cadmium	106-1	-1.01	-0.02	-0.10	-0.38		ppb
Cadmium	111-1	0.00	0.02	0.02	0.01	92.51	ppb
Calcium	43-1	3.69	5.40	5.06	4.72	19.20	ppb
Calcium	44-1	3.54	2.78	2.68	3.00	15.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.03	0.03	0.02	169.26	ppb
Cobalt	59-2	0.02	0.03	0.02	0.03	12.18	ppb
Copper	63-2	0.12	0.11	0.19	0.14	33.25	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				98		%
Holmium	165-2				97		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	4.44	5.31	4.75	4.83	9.08	ppb
Iron	56-2	3.72	3.66	4.02	3.80	5.04	ppb
Iron	57-2	3.91	3.36	3.83	3.70	8.09	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.18	0.18	0.18	3.26	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P8
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:45:39 DataFile Name : 019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.19	0.16	0.18	7.26	ppb
Lead	208-1	0.19	0.18	0.17	0.18	5.98	ppb
Lithium	6-1				101		%
Magnesium	24-2	5.27	5.65	6.18	5.70	8.05	ppb
Manganese	55-2	0.21	0.19	0.20	0.20	6.60	ppb
Molybdenum	94-1	0.19	0.17	0.16	0.17	6.67	ppb
Molybdenum	95-1	0.16	0.13	0.14	0.14	7.75	ppb
Molybdenum	96-1	0.18	0.17	0.14	0.16	10.46	ppb
Molybdenum	97-1	0.19	0.18	0.15	0.17	9.50	ppb
Molybdenum	98-1	0.19	0.15	0.15	0.16	14.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.08	-0.06	-0.05		ppb
Phosphorus	31-2	-16.75	-22.42	-16.56	-18.58		ppb
Potassium	39-2	14.22	11.37	11.02	12.20	14.40	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	-0.11	0.22	0.16	0.09	199.12	ppb
Selenium	77-2	-0.36	-0.36	0.74	0.01	9925.35	ppb
Selenium	78-2	0.39	-0.20	-0.53	-0.11		ppb
Silicon	28-1	-0.46	-0.57	-0.28	-0.44		ppb
Silver	107-1	0.03	0.02	0.03	0.03	13.64	ppb
Silver	109-1	0.02	0.02	0.03	0.02	3.21	ppb
Sodium	23-2	21.80	22.82	22.18	22.27	2.33	ppb
Strontium	86-1	0.00	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	10.32	ppb
Sulfur	34-1	-483.77	-533.19	-372.91	-463.29		ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.05	0.05	0.05	0.05	7.59	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	9.90	ppb
Tin	118-1	0.02	0.01	0.03	0.02	51.71	ppb
Titanium	47-1	0.15	0.12	0.11	0.13	14.51	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	14.40	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P8
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:45:39 DataFile Name : 019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	70.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	0.33	0.31	0.14	0.26	41.06	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	16.44	ppb
Zirconium	91-1	0.02	0.03	0.02	0.02	24.65	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-01 Instrumnet Name : P8
Client Sample ID : LOD-MDL-SOIL-01-QT4- Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:01:47 DataFile Name : 021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.13	8.08	9.08	8.10	12.05	ppb
Antimony	121-1	0.41	0.40	0.41	0.41	2.35	ppb
Arsenic	75-2	0.31	0.44	0.42	0.39	18.56	ppb
Barium	135-1	2.11	1.91	2.07	2.03	5.30	ppb
Barium	137-1	1.98	1.94	2.00	1.97	1.67	ppb
Beryllium	9-1	0.43	0.44	0.43	0.43	1.71	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.38	0.44	0.35	0.39	12.62	ppb
Cadmium	106-1	-0.60	-0.30	-0.40	-0.43		ppb
Cadmium	111-1	0.38	0.44	0.40	0.41	8.10	ppb
Calcium	43-1	197.11	194.09	195.04	195.41	0.79	ppb
Calcium	44-1	192.93	192.80	193.44	193.06	0.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.39	0.39	0.37	8.67	ppb
Cobalt	59-2	0.40	0.39	0.42	0.40	4.11	ppb
Copper	63-2	0.84	0.71	0.74	0.76	8.96	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				98		%
Indium	115-1				98		%
Indium	115-2				95		%
Iron	54-2	36.85	34.76	32.79	34.80	5.84	ppb
Iron	56-2	34.65	34.29	34.49	34.47	0.53	ppb
Iron	57-2	32.89	32.75	32.29	32.64	0.96	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.42	0.41	0.41	2.78	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-01 Instrumnet Name : P8
Client Sample ID : LOD-MDL-SOIL-01-QT4- Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:01:47 DataFile Name : 021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.45	0.43	0.42	0.43	2.98	ppb
Lead	208-1	0.42	0.41	0.42	0.42	1.12	ppb
Lithium	6-1				100		%
Magnesium	24-2	208.58	209.73	209.11	209.14	0.28	ppb
Manganese	55-2	0.86	0.89	0.81	0.85	4.66	ppb
Molybdenum	94-1	1.02	1.04	1.02	1.03	1.17	ppb
Molybdenum	95-1	0.39	0.42	0.37	0.39	6.06	ppb
Molybdenum	96-1	0.43	0.45	0.46	0.45	3.00	ppb
Molybdenum	97-1	0.36	0.39	0.39	0.38	5.80	ppb
Molybdenum	98-1	0.39	0.38	0.39	0.39	0.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.33	0.33	0.26	0.31	13.55	ppb
Phosphorus	31-2	-7.73	-3.50	4.03	-2.40		ppb
Potassium	39-2	131.67	126.12	130.34	129.38	2.24	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	4.75	4.57	4.67	4.66	1.94	ppb
Selenium	77-2	5.24	1.89	8.63	5.25	64.09	ppb
Selenium	78-2	5.41	4.44	4.10	4.65	14.59	ppb
Silicon	28-1	-0.40	-0.41	-0.35	-0.38		ppb
Silver	107-1	0.40	0.42	0.41	0.41	2.68	ppb
Silver	109-1	0.39	0.37	0.41	0.39	5.76	ppb
Sodium	23-2	212.92	215.93	214.76	214.54	0.71	ppb
Strontium	86-1	0.38	0.34	0.40	0.37	6.85	ppb
Strontium	88-1	0.35	0.37	0.37	0.36	2.97	ppb
Sulfur	34-1	-254.18	-215.16	-244.57	-237.97		ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.38	0.36	0.39	0.38	4.96	ppb
Thallium	205-1	0.38	0.37	0.37	0.38	1.34	ppb
Tin	118-1	0.38	0.35	0.38	0.37	4.16	ppb
Titanium	47-1	0.48	0.43	0.48	0.46	6.78	ppb
Uranium	238-1	0.37	0.37	0.37	0.37	0.56	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-01 Instrumnet Name : P8
Client Sample ID : LOD-MDL-SOIL-01-QT4- Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:01:47 DataFile Name : 021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.43	0.41	0.32	0.38	14.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				96		%
Zinc	66-2	1.01	1.02	1.24	1.09	11.94	ppb
Zirconium	90-1	0.37	0.38	0.36	0.37	2.00	ppb
Zirconium	91-1	0.41	0.36	0.40	0.39	5.83	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-02 Instrumnet Name : P8
Client Sample ID : LOQ-SOIL-02-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:13:57 DataFile Name : 024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.27	17.26	20.75	19.09	9.16	ppb
Antimony	121-1	1.86	1.87	1.85	1.86	0.66	ppb
Arsenic	75-2	1.24	0.80	1.04	1.03	21.50	ppb
Barium	135-1	9.10	9.24	9.19	9.18	0.82	ppb
Barium	137-1	9.34	9.24	9.09	9.22	1.33	ppb
Beryllium	9-1	0.96	0.95	0.92	0.94	2.05	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.67	0.95	1.12	0.91	24.94	ppb
Cadmium	106-1	-0.79	-0.59	-0.16	-0.51		ppb
Cadmium	111-1	0.97	0.93	0.96	0.95	2.43	ppb
Calcium	43-1	463.22	473.75	478.11	471.69	1.62	ppb
Calcium	44-1	468.88	468.69	474.57	470.71	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.84	1.86	1.79	1.83	1.82	ppb
Cobalt	59-2	1.01	1.02	1.05	1.03	1.90	ppb
Copper	63-2	2.04	1.97	1.96	1.99	2.31	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				96		%
Holmium	165-2				94		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	54.62	51.95	53.21	53.26	2.51	ppb
Iron	56-2	51.57	50.86	51.22	51.22	0.69	ppb
Iron	57-2	53.74	49.55	48.10	50.46	5.80	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.89	0.90	0.89	1.02	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-02 Instrumnet Name : P8
Client Sample ID : LOQ-SOIL-02-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:13:57 DataFile Name : 024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.91	0.90	0.94	0.92	2.46	ppb
Lead	208-1	0.89	0.90	0.93	0.91	1.99	ppb
Lithium	6-1				99		%
Magnesium	24-2	496.81	485.84	502.93	495.19	1.75	ppb
Manganese	55-2	1.05	1.06	1.03	1.05	1.28	ppb
Molybdenum	94-1	5.35	5.33	5.32	5.33	0.28	ppb
Molybdenum	95-1	4.53	4.52	4.47	4.51	0.68	ppb
Molybdenum	96-1	4.47	4.60	4.52	4.53	1.47	ppb
Molybdenum	97-1	4.52	4.53	4.63	4.56	1.31	ppb
Molybdenum	98-1	4.49	4.44	4.56	4.50	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.03	0.96	0.97	0.99	3.75	ppb
Phosphorus	31-2	15.24	7.68	42.50	21.81	83.99	ppb
Potassium	39-2	474.33	462.07	466.17	467.53	1.33	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				94		%
Selenium	82-1	4.92	4.62	4.15	4.57	8.46	ppb
Selenium	77-2	3.09	3.08	7.56	4.58	56.51	ppb
Selenium	78-2	4.89	5.54	3.80	4.75	18.50	ppb
Silicon	28-1	0.73	0.75	0.85	0.78	8.61	ppb
Silver	107-1	0.92	0.88	0.95	0.91	3.64	ppb
Silver	109-1	0.90	0.93	0.94	0.92	2.11	ppb
Sodium	23-2	489.74	482.89	488.45	487.03	0.75	ppb
Strontium	86-1	0.91	0.85	0.84	0.86	4.39	ppb
Strontium	88-1	0.86	0.89	0.88	0.88	2.13	ppb
Sulfur	34-1	-234.52	-243.46	-160.51	-212.83		ppb
Terbium	159-1				96		%
Terbium	159-2				95		%
Thallium	203-1	0.85	0.88	0.88	0.87	2.05	ppb
Thallium	205-1	0.86	0.85	0.87	0.86	1.20	ppb
Tin	118-1	4.69	4.60	4.69	4.66	1.12	ppb
Titanium	47-1	4.58	4.68	4.78	4.68	2.15	ppb
Uranium	238-1	0.83	0.84	0.86	0.84	1.95	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-02 Instrumnet Name : P8
Client Sample ID : LOQ-SOIL-02-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:13:57 DataFile Name : 024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.57	4.47	4.53	4.52	1.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				94		%
Zinc	66-2	5.28	5.53	5.18	5.33	3.42	ppb
Zirconium	90-1	0.92	0.91	0.90	0.91	0.76	ppb
Zirconium	91-1	0.87	0.89	0.91	0.89	2.55	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-16 Instrumnet Name : P8
Client Sample ID : LLOQ-SOIL-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:17:22 DataFile Name : 025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.63	16.94	17.63	18.07	7.73	ppb
Antimony	121-1	1.84	1.82	1.86	1.84	1.02	ppb
Arsenic	75-2	1.06	1.14	0.86	1.02	14.46	ppb
Barium	135-1	9.25	9.49	9.53	9.43	1.63	ppb
Barium	137-1	9.35	9.15	9.30	9.27	1.11	ppb
Beryllium	9-1	0.94	0.96	0.88	0.93	4.37	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.13	0.96	0.97	1.02	9.56	ppb
Cadmium	106-1	-0.24	-0.62	-0.80	-0.55		ppb
Cadmium	111-1	0.95	0.91	0.98	0.95	3.72	ppb
Calcium	43-1	483.21	485.92	469.95	479.69	1.78	ppb
Calcium	44-1	477.23	469.18	475.03	473.81	0.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.73	1.84	1.83	1.80	3.37	ppb
Cobalt	59-2	0.99	0.98	0.97	0.98	0.83	ppb
Copper	63-2	2.05	2.09	2.03	2.06	1.46	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				96		%
Holmium	165-2				96		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	52.35	53.21	50.58	52.05	2.58	ppb
Iron	56-2	50.28	50.58	50.37	50.41	0.31	ppb
Iron	57-2	46.81	51.61	48.82	49.08	4.91	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.91	0.89	0.91	1.96	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-16 Instrumnet Name : P8
Client Sample ID : LLOQ-SOIL-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:17:22 DataFile Name : 025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.94	0.91	0.91	0.92	1.94	ppb
Lead	208-1	0.94	0.91	0.90	0.92	2.48	ppb
Lithium	6-1				99		%
Magnesium	24-2	504.95	496.07	497.54	499.52	0.95	ppb
Manganese	55-2	0.95	1.00	0.96	0.97	2.64	ppb
Molybdenum	94-1	5.46	5.35	5.27	5.36	1.79	ppb
Molybdenum	95-1	4.52	4.51	4.38	4.47	1.81	ppb
Molybdenum	96-1	4.64	4.50	4.48	4.54	1.86	ppb
Molybdenum	97-1	4.50	4.63	4.44	4.52	2.18	ppb
Molybdenum	98-1	4.50	4.42	4.51	4.48	1.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.05	1.18	0.97	1.07	10.14	ppb
Phosphorus	31-2	13.85	4.99	16.73	11.85	51.63	ppb
Potassium	39-2	463.58	467.73	465.60	465.64	0.45	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				94		%
Selenium	82-1	4.98	4.30	4.83	4.70	7.53	ppb
Selenium	77-2	10.02	7.69	5.40	7.70	29.99	ppb
Selenium	78-2	6.94	2.86	4.22	4.67	44.44	ppb
Silicon	28-1	0.81	0.68	0.76	0.75	9.14	ppb
Silver	107-1	0.92	0.91	0.92	0.92	0.41	ppb
Silver	109-1	0.93	0.91	0.91	0.92	1.31	ppb
Sodium	23-2	485.43	481.16	478.33	481.64	0.74	ppb
Strontium	86-1	0.87	0.85	0.87	0.86	1.35	ppb
Strontium	88-1	0.88	0.88	0.88	0.88	0.44	ppb
Sulfur	34-1	-268.20	-423.11	-415.22	-368.84		ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.89	0.89	0.88	0.88	0.52	ppb
Thallium	205-1	0.89	0.85	0.87	0.87	2.09	ppb
Tin	118-1	4.67	4.72	4.66	4.68	0.77	ppb
Titanium	47-1	4.77	4.49	4.59	4.62	3.13	ppb
Uranium	238-1	0.87	0.82	0.84	0.85	3.02	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-16 Instrumnet Name : P8
Client Sample ID : LLOQ-SOIL-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:17:22 DataFile Name : 025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.60	4.49	4.54	4.54	1.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	6.00	5.92	5.41	5.77	5.52	ppb
Zirconium	90-1	0.90	0.87	0.90	0.89	2.15	ppb
Zirconium	91-1	0.91	0.87	0.91	0.90	2.59	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-07 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-01-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:20:45 DataFile Name : 026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.99	9.26	8.18	8.81	6.40	ppb
Antimony	121-1	0.40	0.39	0.41	0.40	2.11	ppb
Arsenic	75-2	0.43	0.33	0.30	0.35	18.96	ppb
Barium	135-1	1.97	2.02	1.90	1.96	3.05	ppb
Barium	137-1	1.92	2.03	2.02	1.99	3.20	ppb
Beryllium	9-1	0.41	0.41	0.41	0.41	0.60	ppb
Bismuth	209-1				95		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.58	0.46	0.37	0.47	22.10	ppb
Cadmium	106-1	-1.52	-0.41	-1.49	-1.14		ppb
Cadmium	111-1	0.36	0.40	0.34	0.37	8.57	ppb
Calcium	43-1	201.06	204.05	194.36	199.82	2.48	ppb
Calcium	44-1	197.08	199.39	199.31	198.59	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.33	0.37	0.34	7.07	ppb
Cobalt	59-2	0.37	0.43	0.41	0.40	7.63	ppb
Copper	63-2	0.63	0.70	0.81	0.71	12.65	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				95		%
Holmium	165-2				97		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	54-2	34.17	34.84	36.87	35.29	3.98	ppb
Iron	56-2	33.23	34.59	35.05	34.29	2.76	ppb
Iron	57-2	32.29	36.52	37.03	35.28	7.38	ppb
Krypton	83-1						cps
Lead	206-1	0.43	0.44	0.42	0.43	1.71	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-07 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-01-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:20:45 DataFile Name : 026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.39	0.40	0.40	2.68	ppb
Lead	208-1	0.42	0.42	0.41	0.42	1.68	ppb
Lithium	6-1				99		%
Magnesium	24-2	200.95	211.14	213.69	208.59	3.23	ppb
Manganese	55-2	0.78	0.90	0.89	0.86	7.50	ppb
Molybdenum	94-1	0.98	1.06	1.13	1.06	7.07	ppb
Molybdenum	95-1	0.40	0.39	0.42	0.40	3.65	ppb
Molybdenum	96-1	0.47	0.45	0.48	0.47	3.56	ppb
Molybdenum	97-1	0.39	0.40	0.39	0.39	1.23	ppb
Molybdenum	98-1	0.38	0.40	0.40	0.39	2.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.40	0.35	0.40	0.39	7.49	ppb
Phosphorus	31-2	0.34	-2.89	-4.00	-2.18		ppb
Potassium	39-2	121.68	121.12	124.39	122.40	1.43	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	4.92	4.74	4.81	4.82	1.94	ppb
Selenium	77-2	1.75	6.51	6.51	4.92	55.89	ppb
Selenium	78-2	4.74	4.20	5.20	4.71	10.68	ppb
Silicon	28-1	-0.40	-0.37	-0.28	-0.35		ppb
Silver	107-1	0.42	0.43	0.40	0.41	3.77	ppb
Silver	109-1	0.42	0.41	0.42	0.42	1.04	ppb
Sodium	23-2	199.92	211.98	211.29	207.73	3.26	ppb
Strontium	86-1	0.40	0.38	0.41	0.40	3.36	ppb
Strontium	88-1	0.38	0.37	0.40	0.39	4.56	ppb
Sulfur	34-1	-455.24	-311.93	-237.72	-334.96		ppb
Terbium	159-1				96		%
Terbium	159-2				96		%
Thallium	203-1	0.36	0.38	0.40	0.38	5.22	ppb
Thallium	205-1	0.38	0.39	0.37	0.38	2.99	ppb
Tin	118-1	0.41	0.40	0.39	0.40	2.12	ppb
Titanium	47-1	0.45	0.41	0.42	0.42	5.02	ppb
Uranium	238-1	0.37	0.38	0.38	0.38	2.08	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-07 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-01-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:20:45 DataFile Name : 026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.41	0.34	0.39	0.38	9.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	1.09	1.17	0.90	1.05	13.04	ppb
Zirconium	90-1	0.38	0.39	0.39	0.39	1.84	ppb
Zirconium	91-1	0.40	0.38	0.40	0.39	3.42	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-08 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-02-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:26:10 DataFile Name : 027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.00	19.29	17.76	18.68	4.37	ppb
Antimony	121-1	1.74	1.81	1.80	1.78	2.13	ppb
Arsenic	75-2	1.14	1.06	0.98	1.06	7.75	ppb
Barium	135-1	8.99	8.94	8.85	8.93	0.79	ppb
Barium	137-1	8.85	9.13	9.20	9.06	2.06	ppb
Beryllium	9-1	0.90	0.90	0.93	0.91	2.14	ppb
Bismuth	209-1				97		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.08	0.94	0.85	0.96	12.18	ppb
Cadmium	106-1	-0.83	-0.07	-0.28	-0.39		ppb
Cadmium	111-1	0.87	0.95	1.02	0.95	7.93	ppb
Calcium	43-1	465.05	483.57	467.55	472.06	2.13	ppb
Calcium	44-1	465.85	466.86	465.65	466.12	0.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.87	1.84	1.75	1.82	3.55	ppb
Cobalt	59-2	1.01	0.95	1.03	1.00	3.86	ppb
Copper	63-2	2.23	2.15	2.14	2.17	2.35	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				95		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	54-2	51.44	51.38	49.58	50.80	2.07	ppb
Iron	56-2	50.30	49.37	50.71	50.13	1.36	ppb
Iron	57-2	49.82	51.52	51.89	51.08	2.17	ppb
Krypton	83-1						cps
Lead	206-1	0.86	0.90	0.87	0.88	2.00	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-08 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-02-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:26:10 DataFile Name : 027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.91	0.90	0.96	0.92	3.55	ppb
Lead	208-1	0.88	0.87	0.90	0.88	1.77	ppb
Lithium	6-1				100		%
Magnesium	24-2	501.94	494.51	495.91	497.46	0.79	ppb
Manganese	55-2	1.02	1.03	0.99	1.01	2.25	ppb
Molybdenum	94-1	5.29	5.30	5.52	5.37	2.35	ppb
Molybdenum	95-1	4.42	4.43	4.56	4.47	1.78	ppb
Molybdenum	96-1	4.53	4.52	4.60	4.55	1.01	ppb
Molybdenum	97-1	4.50	4.64	4.37	4.50	2.94	ppb
Molybdenum	98-1	4.44	4.39	4.63	4.49	2.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.92	1.04	1.04	1.00	6.65	ppb
Phosphorus	31-2	8.03	14.98	3.48	8.83	65.55	ppb
Potassium	39-2	465.36	452.75	460.46	459.53	1.38	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	4.40	5.75	4.54	4.90	15.12	ppb
Selenium	77-2	6.53	6.53	5.41	6.16	10.54	ppb
Selenium	78-2	3.53	8.94	2.87	5.11	65.15	ppb
Silicon	28-1	0.57	0.63	0.57	0.59	6.29	ppb
Silver	107-1	0.86	0.89	0.87	0.88	2.12	ppb
Silver	109-1	0.88	0.89	0.89	0.89	0.62	ppb
Sodium	23-2	488.82	481.35	482.00	484.05	0.85	ppb
Strontium	86-1	0.84	0.89	0.89	0.87	3.42	ppb
Strontium	88-1	0.88	0.88	0.90	0.89	1.59	ppb
Sulfur	34-1	-342.52	-247.51	-314.62	-301.55		ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	0.84	0.84	0.88	0.86	2.49	ppb
Thallium	205-1	0.86	0.86	0.86	0.86	0.20	ppb
Tin	118-1	4.49	4.61	4.71	4.60	2.36	ppb
Titanium	47-1	4.60	4.61	4.59	4.60	0.24	ppb
Uranium	238-1	0.83	0.83	0.82	0.82	0.12	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-08 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-02-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:26:10 DataFile Name : 027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.70	4.33	4.58	4.54	4.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				93		%
Zinc	66-2	5.87	5.60	5.53	5.67	3.18	ppb
Zirconium	90-1	0.92	0.88	0.91	0.90	2.40	ppb
Zirconium	91-1	0.81	0.84	0.92	0.86	6.83	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-17 Instrumnet Name : P8
Client Sample ID : LLOQ-WATER-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:29:35 DataFile Name : 028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.76	17.28	17.47	17.84	4.53	ppb
Antimony	121-1	1.80	1.83	1.88	1.84	2.03	ppb
Arsenic	75-2	0.97	0.83	0.87	0.89	8.05	ppb
Barium	135-1	9.04	9.21	9.25	9.17	1.21	ppb
Barium	137-1	9.17	9.29	9.17	9.21	0.75	ppb
Beryllium	9-1	0.94	0.94	0.94	0.94	0.24	ppb
Bismuth	209-1				97		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.87	0.86	1.04	0.92	10.86	ppb
Cadmium	106-1	-0.35	-0.09	-0.46	-0.30		ppb
Cadmium	111-1	0.90	0.92	0.90	0.91	1.29	ppb
Calcium	43-1	466.97	467.27	467.84	467.36	0.09	ppb
Calcium	44-1	458.01	470.23	468.95	465.73	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.85	1.96	1.75	1.85	5.49	ppb
Cobalt	59-2	1.00	0.99	0.97	0.99	1.36	ppb
Copper	63-2	2.06	2.21	2.06	2.11	4.02	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				96		%
Holmium	165-2				96		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	54-2	54.09	53.15	52.37	53.20	1.62	ppb
Iron	56-2	51.50	50.69	51.34	51.18	0.84	ppb
Iron	57-2	48.44	45.92	50.91	48.42	5.16	ppb
Krypton	83-1						cps
Lead	206-1	0.87	0.89	0.90	0.88	1.83	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-17 Instrumnet Name : P8
Client Sample ID : LLOQ-WATER-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:29:35 DataFile Name : 028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.92	0.87	0.90	0.90	2.68	ppb
Lead	208-1	0.89	0.88	0.89	0.89	0.54	ppb
Lithium	6-1				99		%
Magnesium	24-2	513.91	506.59	503.93	508.14	1.02	ppb
Manganese	55-2	1.05	1.04	1.02	1.04	1.51	ppb
Molybdenum	94-1	5.34	5.54	5.53	5.47	2.04	ppb
Molybdenum	95-1	4.45	4.64	4.59	4.56	2.17	ppb
Molybdenum	96-1	4.55	4.63	4.64	4.61	1.10	ppb
Molybdenum	97-1	4.52	4.72	4.65	4.63	2.16	ppb
Molybdenum	98-1	4.50	4.60	4.53	4.54	1.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.13	1.09	1.07	1.10	2.97	ppb
Phosphorus	31-2	8.08	29.14	1.93	13.05	109.34	ppb
Potassium	39-2	464.75	462.32	456.64	461.24	0.90	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	5.10	5.32	5.12	5.18	2.34	ppb
Selenium	77-2	5.38	3.13	9.99	6.16	56.71	ppb
Selenium	78-2	4.88	4.61	4.89	4.79	3.27	ppb
Silicon	28-1	0.42	0.65	0.56	0.54	21.53	ppb
Silver	107-1	0.89	0.93	0.94	0.92	2.79	ppb
Silver	109-1	0.90	0.91	0.95	0.92	3.14	ppb
Sodium	23-2	486.73	489.64	483.79	486.72	0.60	ppb
Strontium	86-1	0.85	0.87	0.88	0.87	1.71	ppb
Strontium	88-1	0.91	0.89	0.88	0.90	1.29	ppb
Sulfur	34-1	-414.54	-277.18	-286.15	-325.96		ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	0.83	0.86	0.87	0.85	2.12	ppb
Thallium	205-1	0.85	0.88	0.88	0.87	1.61	ppb
Tin	118-1	4.53	4.63	4.64	4.60	1.22	ppb
Titanium	47-1	4.70	4.50	4.70	4.63	2.45	ppb
Uranium	238-1	0.84	0.84	0.84	0.84	0.48	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-17 Instrumnet Name : P8
Client Sample ID : LLOQ-WATER-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:29:35 DataFile Name : 028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.76	4.67	4.58	4.67	1.91	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				93		%
Zinc	66-2	5.64	5.29	5.78	5.57	4.50	ppb
Zirconium	90-1	0.90	0.94	0.94	0.93	2.22	ppb
Zirconium	91-1	0.90	0.93	0.94	0.92	2.37	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-10 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-04-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:35:21 DataFile Name : 029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.16	7.73	8.27	8.05	3.51	ppb
Antimony	121-1	0.40	0.42	0.46	0.43	7.08	ppb
Arsenic	75-2	0.54	0.47	0.59	0.53	10.96	ppb
Barium	135-1	1.91	2.01	2.15	2.02	5.97	ppb
Barium	137-1	1.95	1.97	2.39	2.10	11.94	ppb
Beryllium	9-1	0.40	0.42	0.45	0.43	6.62	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.41	0.37	0.63	0.47	29.29	ppb
Cadmium	106-1	-1.43	-0.08	-0.58	-0.70		ppb
Cadmium	111-1	0.36	0.42	0.41	0.39	8.05	ppb
Calcium	43-1	183.72	193.30	222.63	199.88	10.14	ppb
Calcium	44-1	190.51	194.86	226.48	203.95	9.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.39	0.34	0.37	6.69	ppb
Cobalt	59-2	0.43	0.42	0.42	0.42	1.13	ppb
Copper	63-2	0.69	0.72	0.78	0.73	6.86	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				93		%
Holmium	165-2				96		%
Indium	115-1				92		%
Indium	115-2				94		%
Iron	54-2	35.84	37.66	35.78	36.43	2.93	ppb
Iron	56-2	32.93	34.38	34.79	34.03	2.88	ppb
Iron	57-2	33.91	33.62	36.68	34.74	4.86	ppb
Krypton	83-1						cps
Lead	206-1	0.37	0.40	0.44	0.40	8.95	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-10 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-04-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:35:21 DataFile Name : 029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.38	0.41	0.45	0.41	8.65	ppb
Lead	208-1	0.38	0.40	0.45	0.41	8.85	ppb
Lithium	6-1				97		%
Magnesium	24-2	210.34	213.49	211.05	211.63	0.78	ppb
Manganese	55-2	0.76	0.80	0.70	0.75	6.73	ppb
Molybdenum	94-1	0.98	1.02	1.15	1.05	8.42	ppb
Molybdenum	95-1	0.38	0.38	0.43	0.40	8.23	ppb
Molybdenum	96-1	0.47	0.46	0.51	0.48	5.23	ppb
Molybdenum	97-1	0.35	0.36	0.45	0.39	14.93	ppb
Molybdenum	98-1	0.38	0.39	0.46	0.41	10.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.26	0.37	0.35	0.33	17.34	ppb
Phosphorus	31-2	-4.71	-20.50	0.56	-8.21		ppb
Potassium	39-2	118.24	122.58	126.34	122.39	3.31	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				93		%
Scandium	45-2				95		%
Selenium	82-1	4.54	5.33	5.43	5.10	9.57	ppb
Selenium	77-2	3.04	3.11	5.40	3.85	34.87	ppb
Selenium	78-2	6.48	5.94	3.54	5.32	29.39	ppb
Silicon	28-1	-0.59	-0.43	0.76	-0.08		ppb
Silver	107-1	0.38	0.41	0.45	0.41	9.23	ppb
Silver	109-1	0.41	0.42	0.47	0.43	7.13	ppb
Sodium	23-2	204.04	207.37	206.89	206.10	0.87	ppb
Strontium	86-1	0.38	0.35	0.42	0.38	9.11	ppb
Strontium	88-1	0.37	0.38	0.44	0.40	9.44	ppb
Sulfur	34-1	-250.12	-170.46	756.57	112.00	499.69	ppb
Terbium	159-1				92		%
Terbium	159-2				96		%
Thallium	203-1	0.36	0.37	0.43	0.39	9.84	ppb
Thallium	205-1	0.36	0.38	0.44	0.39	10.47	ppb
Tin	118-1	0.36	0.37	0.45	0.39	12.29	ppb
Titanium	47-1	0.42	0.43	0.56	0.47	16.35	ppb
Uranium	238-1	0.36	0.37	0.41	0.38	7.18	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-10 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-04-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:35:21 DataFile Name : 029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.36	0.41	0.41	0.39	6.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				94		%
Zinc	66-2	0.86	0.89	0.96	0.90	5.98	ppb
Zirconium	90-1	0.37	0.39	0.42	0.39	7.16	ppb
Zirconium	91-1	0.36	0.38	0.43	0.39	8.71	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-11 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-05-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:38:44 DataFile Name : 030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.33	18.72	17.12	18.39	6.23	ppb
Antimony	121-1	1.78	1.79	1.89	1.82	3.41	ppb
Arsenic	75-2	0.81	1.21	1.00	1.01	20.28	ppb
Barium	135-1	9.11	8.93	9.29	9.11	1.94	ppb
Barium	137-1	9.23	9.05	9.56	9.28	2.81	ppb
Beryllium	9-1	0.92	0.89	0.95	0.92	3.75	ppb
Bismuth	209-1				95		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.00	0.97	0.81	0.93	10.55	ppb
Cadmium	106-1	-1.07	0.13	-0.88	-0.61		ppb
Cadmium	111-1	0.91	0.89	1.11	0.97	12.30	ppb
Calcium	43-1	469.97	484.45	501.25	485.22	3.23	ppb
Calcium	44-1	457.75	456.69	494.41	469.61	4.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.85	1.83	1.82	1.83	0.79	ppb
Cobalt	59-2	0.97	1.00	0.99	0.99	1.36	ppb
Copper	63-2	2.10	2.09	2.18	2.13	2.29	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				94		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	53.12	52.54	52.56	52.74	0.62	ppb
Iron	56-2	50.93	50.08	50.33	50.45	0.87	ppb
Iron	57-2	47.02	46.41	47.59	47.00	1.25	ppb
Krypton	83-1						cps
Lead	206-1	0.85	0.86	0.92	0.88	4.31	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-11 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-05-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:38:44 DataFile Name : 030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.88	0.87	0.92	0.89	3.08	ppb
Lead	208-1	0.89	0.88	0.93	0.90	3.06	ppb
Lithium	6-1				100		%
Magnesium	24-2	497.21	497.83	491.02	495.35	0.76	ppb
Manganese	55-2	0.95	1.06	0.97	0.99	6.37	ppb
Molybdenum	94-1	5.34	5.30	5.71	5.45	4.11	ppb
Molybdenum	95-1	4.46	4.41	4.69	4.52	3.30	ppb
Molybdenum	96-1	4.57	4.49	4.83	4.63	3.80	ppb
Molybdenum	97-1	4.43	4.52	4.73	4.56	3.32	ppb
Molybdenum	98-1	4.42	4.32	4.78	4.51	5.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.06	1.13	1.01	1.07	5.35	ppb
Phosphorus	31-2	8.63	9.93	4.81	7.79	34.11	ppb
Potassium	39-2	471.47	458.62	464.71	464.94	1.38	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				93		%
Selenium	82-1	4.55	4.56	5.21	4.77	7.93	ppb
Selenium	77-2	3.17	3.15	5.44	3.92	33.61	ppb
Selenium	78-2	2.24	2.92	4.25	3.14	32.61	ppb
Silicon	28-1	0.58	0.61	1.37	0.85	51.79	ppb
Silver	107-1	0.88	0.92	0.93	0.91	2.61	ppb
Silver	109-1	0.92	0.91	0.92	0.92	0.45	ppb
Sodium	23-2	488.93	488.30	471.50	482.91	2.05	ppb
Strontium	86-1	0.91	0.86	0.94	0.90	4.61	ppb
Strontium	88-1	0.88	0.87	0.93	0.89	3.48	ppb
Sulfur	34-1	-221.29	-166.95	300.71	-29.18		ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.88	0.80	0.92	0.86	7.03	ppb
Thallium	205-1	0.85	0.83	0.86	0.84	1.71	ppb
Tin	118-1	4.55	4.55	4.73	4.61	2.20	ppb
Titanium	47-1	4.61	4.73	4.94	4.76	3.49	ppb
Uranium	238-1	0.82	0.83	0.86	0.84	2.19	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-11 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-05-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:38:44 DataFile Name : 030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.65	4.47	4.48	4.53	2.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	5.46	5.41	5.58	5.48	1.53	ppb
Zirconium	90-1	0.90	0.88	0.93	0.90	2.59	ppb
Zirconium	91-1	0.89	0.87	0.94	0.90	4.00	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P8
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:49:04 DataFile Name : 033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50165.19	51606.77	50851.89	50874.62	1.42	ppb
Antimony	121-1	499.38	499.48	500.06	499.64	0.07	ppb
Arsenic	75-2	505.80	504.98	505.95	505.58	0.10	ppb
Barium	135-1	2523.52	2516.62	2526.05	2522.07	0.19	ppb
Barium	137-1	2497.71	2508.99	2500.55	2502.42	0.23	ppb
Beryllium	9-1	506.05	516.25	513.91	512.07	1.04	ppb
Bismuth	209-1				79		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	481.94	487.68	491.14	486.92	0.95	ppb
Cadmium	106-1	488.63	490.41	491.14	490.06	0.26	ppb
Cadmium	111-1	457.36	460.50	462.17	460.01	0.53	ppb
Calcium	43-1	247610.46	253379.38	250211.08	250400.30	1.15	ppb
Calcium	44-1	247900.13	251820.67	253527.31	251082.70	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	477.82	485.64	483.44	482.30	0.84	ppb
Cobalt	59-2	500.89	505.17	503.18	503.08	0.43	ppb
Copper	63-2	4810.80	4928.11	4895.24	4878.05	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				89		%
Holmium	165-2				89		%
Indium	115-1				83		%
Indium	115-2				82		%
Iron	54-2	126531.13	128022.57	127038.08	127197.26	0.60	ppb
Iron	56-2	127070.38	128332.19	127457.08	127619.88	0.51	ppb
Iron	57-2	125239.49	128557.27	126418.09	126738.28	1.33	ppb
Krypton	83-1						cps
Lead	206-1	2633.06	2549.75	2624.18	2602.33	1.76	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P8
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:49:04 DataFile Name : 033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2596.99	2565.90	2577.74	2580.21	0.61	ppb
Lead	208-1	2601.22	2588.92	2585.34	2591.83	0.32	ppb
Lithium	6-1				86		%
Magnesium	24-2	251746.18	259378.79	255647.13	255590.70	1.49	ppb
Manganese	55-2	5137.28	5168.43	5142.87	5149.53	0.32	ppb
Molybdenum	94-1	5103.16	5125.09	5148.85	5125.70	0.45	ppb
Molybdenum	95-1	5076.49	5133.59	5127.61	5112.56	0.61	ppb
Molybdenum	96-1	5131.91	5110.18	5149.77	5130.62	0.39	ppb
Molybdenum	97-1	5131.78	5118.44	5182.08	5144.10	0.65	ppb
Molybdenum	98-1	5098.65	5111.28	5141.21	5117.05	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	481.63	493.50	488.93	488.02	1.23	ppb
Phosphorus	31-2	10078.80	10167.47	10557.22	10267.83	2.48	ppb
Potassium	39-2	124127.98	124845.04	124292.49	124421.84	0.30	ppb
Rhodium	103-1				79		%
Rhodium	103-2				80		%
Scandium	45-1				88		%
Scandium	45-2				88		%
Selenium	82-1	497.48	498.94	492.38	496.27	0.69	ppb
Selenium	77-2	491.49	445.07	495.41	477.32	5.87	ppb
Selenium	78-2	508.81	507.09	496.35	504.08	1.34	ppb
Silicon	28-1	786.00	798.54	788.99	791.18	0.83	ppb
Silver	107-1	473.46	484.80	485.81	481.36	1.43	ppb
Silver	109-1	480.01	480.81	482.76	481.19	0.29	ppb
Sodium	23-2	248880.05	253494.22	251541.53	251305.27	0.92	ppb
Strontium	86-1	517.37	520.27	511.40	516.35	0.88	ppb
Strontium	88-1	511.84	513.85	514.33	513.34	0.26	ppb
Sulfur	34-1	12636.76	12710.01	12827.82	12724.86	0.76	ppb
Terbium	159-1				88		%
Terbium	159-2				89		%
Thallium	203-1	531.10	521.23	530.14	527.49	1.03	ppb
Thallium	205-1	522.65	516.02	524.11	520.92	0.83	ppb
Tin	118-1	503.13	505.49	503.02	503.88	0.28	ppb
Titanium	47-1	5102.24	5117.64	5164.05	5127.98	0.63	ppb
Uranium	238-1	527.62	533.44	529.98	530.34	0.55	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P8
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:49:04 DataFile Name : 033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	490.32	499.65	494.78	494.91	0.94	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				87		%
Zinc	66-2	4864.17	5013.42	4897.04	4924.88	1.59	ppb
Zirconium	90-1	510.06	517.53	517.05	514.88	0.81	ppb
Zirconium	91-1	521.30	523.22	526.92	523.82	0.55	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P8
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:52:24 DataFile Name : 034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.86	0.87	0.30	1.01	78.18	ppb
Antimony	121-1	0.11	0.09	0.09	0.10	14.32	ppb
Arsenic	75-2	-0.02	0.03	0.00	0.00	1612.95	ppb
Barium	135-1	0.29	0.25	0.19	0.25	20.00	ppb
Barium	137-1	0.28	0.20	0.18	0.22	23.49	ppb
Beryllium	9-1	0.15	0.12	0.12	0.13	11.09	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.00	0.09	0.06	80.77	ppb
Cadmium	106-1	-1.58	-1.33	-1.70	-1.54		ppb
Cadmium	111-1	0.00	-0.03	-0.02	-0.02		ppb
Calcium	43-1	8.02	7.66	6.40	7.36	11.57	ppb
Calcium	44-1	5.85	2.74	2.12	3.57	55.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.02	0.00	0.00	352.67	ppb
Cobalt	59-2	0.02	0.03	0.01	0.02	39.85	ppb
Copper	63-2	-0.01	0.01	-0.04	-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				93		%
Holmium	165-2				96		%
Indium	115-1				94		%
Indium	115-2				93		%
Iron	54-2	4.16	3.97	4.53	4.22	6.71	ppb
Iron	56-2	3.60	3.53	3.33	3.49	3.99	ppb
Iron	57-2	3.32	4.51	1.74	3.19	43.56	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.12	0.14	0.15	18.51	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P8
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:52:24 DataFile Name : 034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.14	0.10	0.14	30.85	ppb
Lead	208-1	0.18	0.14	0.12	0.15	20.91	ppb
Lithium	6-1				99		%
Magnesium	24-2	4.94	4.82	5.07	4.94	2.54	ppb
Manganese	55-2	0.22	0.30	0.20	0.24	22.65	ppb
Molybdenum	94-1	0.32	0.23	0.21	0.25	21.70	ppb
Molybdenum	95-1	0.30	0.25	0.20	0.25	20.18	ppb
Molybdenum	96-1	0.27	0.18	0.19	0.22	22.47	ppb
Molybdenum	97-1	0.29	0.20	0.20	0.23	23.30	ppb
Molybdenum	98-1	0.29	0.22	0.18	0.23	23.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.04	-0.15	-0.06		ppb
Phosphorus	31-2	-14.31	-15.61	-16.97	-15.63		ppb
Potassium	39-2	12.11	8.64	11.88	10.88	17.84	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				93		%
Selenium	82-1	0.16	0.34	0.31	0.27	34.20	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.49	0.16	-0.18	0.15	217.07	ppb
Silicon	28-1	-0.37	-0.48	-0.58	-0.48		ppb
Silver	107-1	0.04	0.04	0.04	0.04	5.76	ppb
Silver	109-1	0.05	0.04	0.03	0.04	18.73	ppb
Sodium	23-2	23.08	22.86	22.20	22.71	2.01	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	547.40	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	63.03	ppb
Sulfur	34-1	-345.71	-380.31	-468.46	-398.16		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.04	0.03	0.02	0.03	29.82	ppb
Thallium	205-1	0.03	0.03	0.02	0.03	13.26	ppb
Tin	118-1	0.06	0.04	0.02	0.04	40.91	ppb
Titanium	47-1	0.26	0.16	0.14	0.19	34.94	ppb
Uranium	238-1	0.02	0.01	0.01	0.02	41.56	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P8
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:52:24 DataFile Name : 034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	34.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				93		%
Zinc	66-2	0.21	0.05	0.33	0.20	72.11	ppb
Zirconium	90-1	0.04	0.03	0.03	0.03	19.20	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	12.20	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW Instrumnet Name : P8
Client Sample ID : PBW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:59:10 DataFile Name : 036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.09	0.52	0.83	0.81	35.14	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	3.08	ppb
Arsenic	75-2	-0.02	0.03	0.06	0.02	178.73	ppb
Barium	135-1	0.03	0.02	0.05	0.03	51.42	ppb
Barium	137-1	0.03	0.02	0.02	0.03	23.18	ppb
Beryllium	9-1	0.05	0.04	0.04	0.04	3.89	ppb
Bismuth	209-1				94		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.07	0.00	-0.03		ppb
Cadmium	106-1	-2.37	-1.81	-2.18	-2.12		ppb
Cadmium	111-1	-0.04	-0.03	-0.04	-0.04		ppb
Calcium	43-1	0.01	0.19	2.10	0.77	151.11	ppb
Calcium	44-1	-2.35	-2.81	-2.67	-2.61		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.02	-0.02	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	16.29	ppb
Copper	63-2	-0.01	0.02	0.00	0.00	344.77	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				94		%
Holmium	165-2				97		%
Indium	115-1				95		%
Indium	115-2				94		%
Iron	54-2	0.66	0.94	1.15	0.92	26.58	ppb
Iron	56-2	0.37	0.52	0.49	0.46	17.51	ppb
Iron	57-2	0.75	0.30	0.07	0.38	91.79	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.04	0.05	15.24	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW Instrumnet Name : P8
Client Sample ID : PBW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:59:10 DataFile Name : 036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.03	0.04	0.04	15.89	ppb
Lead	208-1	0.04	0.04	0.04	0.04	12.13	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.10	-0.21	-0.08	-0.13		ppb
Manganese	55-2	0.14	0.15	0.15	0.15	4.84	ppb
Molybdenum	94-1	0.03	0.01	0.03	0.03	36.31	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	14.72	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.02	20.16	ppb
Molybdenum	97-1	0.01	0.00	0.01	0.01	50.28	ppb
Molybdenum	98-1	0.02	0.01	0.01	0.01	12.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	0.03	0.01	0.00		ppb
Phosphorus	31-2	-27.81	-8.45	-17.40	-17.89		ppb
Potassium	39-2	1.99	2.63	0.89	1.84	48.09	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				94		%
Selenium	82-1	0.24	0.04	0.51	0.26	90.71	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.19	-0.53	-0.19	-0.30		ppb
Silicon	28-1	-0.45	-0.77	-0.75	-0.66		ppb
Silver	107-1	0.01	0.01	0.01	0.01	25.34	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.47	ppb
Sodium	23-2	4.57	4.56	5.38	4.84	9.66	ppb
Strontium	86-1	0.00	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-384.40	-587.72	-646.27	-539.46		ppb
Terbium	159-1				95		%
Terbium	159-2				96		%
Thallium	203-1	0.00	0.01	0.01	0.01	54.05	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	32.82	ppb
Tin	118-1	0.01	0.10	-0.01	0.03	173.30	ppb
Titanium	47-1	0.02	0.02	0.01	0.02	24.58	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	90.31	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW Instrumnet Name : P8
Client Sample ID : PBW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:59:10 DataFile Name : 036CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				94		%
Zinc	66-2	0.46	0.70	0.73	0.63	23.29	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	46.28	ppb
Zirconium	91-1	0.00	0.01	0.00	0.01	115.98	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-03 Instrumnet Name : P8
Client Sample ID : XA102 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:02:34 DataFile Name : 037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.15	7.43	7.25	7.94	13.21	ppb
Antimony	121-1	0.39	0.38	0.40	0.39	3.11	ppb
Arsenic	75-2	0.44	0.24	0.33	0.34	29.25	ppb
Barium	135-1	1.89	1.91	2.05	1.95	4.52	ppb
Barium	137-1	1.95	1.87	2.06	1.96	4.89	ppb
Beryllium	9-1	0.41	0.40	0.43	0.41	3.36	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.36	0.31	0.44	0.37	17.74	ppb
Cadmium	106-1	-0.67	-1.20	-0.70	-0.86		ppb
Cadmium	111-1	0.36	0.34	0.34	0.35	2.71	ppb
Calcium	43-1	188.34	189.64	199.34	192.44	3.12	ppb
Calcium	44-1	192.96	180.45	193.59	189.00	3.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.36	0.32	0.31	0.33	8.85	ppb
Cobalt	59-2	0.42	0.41	0.41	0.41	1.87	ppb
Copper	63-2	0.71	0.63	0.76	0.70	9.27	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				98		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	35.93	37.25	35.55	36.24	2.46	ppb
Iron	56-2	34.30	34.34	34.93	34.52	1.02	ppb
Iron	57-2	32.31	33.63	34.36	33.43	3.11	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.36	0.39	0.38	4.88	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-03 Instrumnet Name : P8
Client Sample ID : XA102 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:02:34 DataFile Name : 037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.37	0.40	0.38	3.78	ppb
Lead	208-1	0.39	0.38	0.40	0.39	2.08	ppb
Lithium	6-1				102		%
Magnesium	24-2	204.52	209.54	210.72	208.26	1.58	ppb
Manganese	55-2	0.80	0.91	0.92	0.88	7.36	ppb
Molybdenum	94-1	1.06	0.98	1.01	1.02	3.95	ppb
Molybdenum	95-1	0.40	0.38	0.39	0.39	1.91	ppb
Molybdenum	96-1	0.45	0.42	0.48	0.45	5.99	ppb
Molybdenum	97-1	0.38	0.36	0.39	0.38	5.12	ppb
Molybdenum	98-1	0.40	0.35	0.38	0.38	6.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.37	0.31	0.38	0.35	10.99	ppb
Phosphorus	31-2	-10.52	-7.37	-19.09	-12.33		ppb
Potassium	39-2	123.70	123.25	130.39	125.78	3.18	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	4.58	4.73	4.73	4.68	1.85	ppb
Selenium	77-2	9.73	1.89	3.04	4.89	86.60	ppb
Selenium	78-2	5.08	2.45	6.49	4.67	43.82	ppb
Silicon	28-1	-0.72	-1.08	-0.66	-0.82		ppb
Silver	107-1	0.40	0.38	0.42	0.40	4.56	ppb
Silver	109-1	0.40	0.39	0.41	0.40	2.67	ppb
Sodium	23-2	207.80	209.23	207.96	208.33	0.38	ppb
Strontium	86-1	0.34	0.35	0.35	0.35	1.41	ppb
Strontium	88-1	0.37	0.35	0.38	0.37	4.47	ppb
Sulfur	34-1	-578.50	-878.07	-570.50	-675.69		ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.36	0.35	0.37	0.36	2.55	ppb
Thallium	205-1	0.38	0.35	0.38	0.37	4.22	ppb
Tin	118-1	0.41	0.37	0.38	0.39	5.25	ppb
Titanium	47-1	0.50	0.37	0.44	0.44	13.94	ppb
Uranium	238-1	0.36	0.35	0.37	0.36	2.96	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-03 Instrumnet Name : P8
Client Sample ID : XA102 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:02:34 DataFile Name : 037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.38	0.46	0.45	0.43	10.30	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				95		%
Zinc	66-2	0.84	1.16	0.85	0.95	19.08	ppb
Zirconium	90-1	0.37	0.36	0.39	0.37	4.00	ppb
Zirconium	91-1	0.36	0.34	0.38	0.36	5.75	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-01 Instrumnet Name : P8
Client Sample ID : XA100 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:06:45 DataFile Name : 038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.79	8.61	9.87	8.76	11.97	ppb
Antimony	121-1	0.39	0.39	0.39	0.39	0.34	ppb
Arsenic	75-2	0.34	0.51	0.37	0.40	23.43	ppb
Barium	135-1	1.90	2.02	1.96	1.96	3.22	ppb
Barium	137-1	1.96	1.96	1.94	1.95	0.69	ppb
Beryllium	9-1	0.42	0.42	0.40	0.42	2.52	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.34	0.24	0.30	17.56	ppb
Cadmium	106-1	-1.79	-0.02	-1.57	-1.13		ppb
Cadmium	111-1	0.32	0.40	0.38	0.37	11.29	ppb
Calcium	43-1	191.32	188.50	193.74	191.19	1.37	ppb
Calcium	44-1	183.61	188.79	189.45	187.28	1.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.37	0.32	0.32	0.34	9.11	ppb
Cobalt	59-2	0.42	0.42	0.45	0.43	4.43	ppb
Copper	63-2	0.72	0.74	0.67	0.71	5.70	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				97		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	36.14	35.85	35.84	35.94	0.48	ppb
Iron	56-2	34.18	34.63	34.57	34.46	0.71	ppb
Iron	57-2	32.39	35.10	34.21	33.90	4.08	ppb
Krypton	83-1						cps
Lead	206-1	0.39	0.40	0.40	0.40	2.65	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-01 Instrumnet Name : P8
Client Sample ID : XA100 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:06:45 DataFile Name : 038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.37	0.40	0.38	5.13	ppb
Lead	208-1	0.38	0.39	0.39	0.39	1.80	ppb
Lithium	6-1				103		%
Magnesium	24-2	210.70	212.40	210.84	211.31	0.45	ppb
Manganese	55-2	0.85	0.95	0.91	0.90	5.67	ppb
Molybdenum	94-1	1.02	0.98	1.00	1.00	2.28	ppb
Molybdenum	95-1	0.39	0.43	0.40	0.41	5.52	ppb
Molybdenum	96-1	0.43	0.46	0.46	0.45	3.13	ppb
Molybdenum	97-1	0.36	0.40	0.38	0.38	5.56	ppb
Molybdenum	98-1	0.37	0.39	0.39	0.38	2.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.35	0.31	0.36	0.34	7.73	ppb
Phosphorus	31-2	-11.97	-8.68	-7.02	-9.22		ppb
Potassium	39-2	128.89	126.90	125.30	127.03	1.41	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	3.87	5.24	4.39	4.50	15.35	ppb
Selenium	77-2	3.87	1.92	8.83	4.87	73.07	ppb
Selenium	78-2	1.97	5.51	4.21	3.89	46.00	ppb
Silicon	28-1	-1.03	-0.81	-0.79	-0.88		ppb
Silver	107-1	0.40	0.41	0.40	0.40	1.67	ppb
Silver	109-1	0.39	0.42	0.41	0.41	3.89	ppb
Sodium	23-2	206.81	207.43	209.70	207.98	0.73	ppb
Strontium	86-1	0.34	0.36	0.39	0.36	5.64	ppb
Strontium	88-1	0.36	0.37	0.37	0.37	2.62	ppb
Sulfur	34-1	-738.82	-615.00	-543.16	-632.33		ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.37	0.37	0.37	0.37	0.70	ppb
Thallium	205-1	0.37	0.37	0.39	0.38	3.04	ppb
Tin	118-1	0.38	0.40	0.37	0.38	3.25	ppb
Titanium	47-1	0.40	0.39	0.43	0.41	4.53	ppb
Uranium	238-1	0.36	0.36	0.37	0.36	1.52	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-01 Instrumnet Name : P8
Client Sample ID : XA100 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:06:45 DataFile Name : 038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.37	0.40	0.38	3.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	1.02	1.09	0.83	0.98	13.55	ppb
Zirconium	90-1	0.36	0.39	0.37	0.38	3.93	ppb
Zirconium	91-1	0.35	0.41	0.36	0.38	8.69	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW Instrumnet Name : P8
Client Sample ID : LCSW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:22:09 DataFile Name : 041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43.20	39.08	43.40	41.89	5.82	ppb
Antimony	121-1	3.88	3.93	3.98	3.93	1.28	ppb
Arsenic	75-2	2.20	1.95	1.86	2.01	8.58	ppb
Barium	135-1	19.38	19.76	19.64	19.59	1.00	ppb
Barium	137-1	19.54	19.65	19.64	19.61	0.30	ppb
Beryllium	9-1	1.97	1.96	1.95	1.96	0.61	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.85	1.91	2.10	1.95	6.86	ppb
Cadmium	106-1	0.11	0.58	1.26	0.65	88.83	ppb
Cadmium	111-1	1.96	1.95	2.08	2.00	3.55	ppb
Calcium	43-1	989.31	984.28	993.17	988.92	0.45	ppb
Calcium	44-1	984.63	965.81	992.96	981.13	1.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.73	3.86	3.78	3.79	1.70	ppb
Cobalt	59-2	2.06	1.98	2.07	2.04	2.37	ppb
Copper	63-2	4.56	4.71	4.73	4.66	1.96	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				94		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	428.53	422.51	427.71	426.25	0.77	ppb
Iron	56-2	422.94	421.31	423.21	422.49	0.24	ppb
Iron	57-2	418.55	414.40	411.23	414.73	0.88	ppb
Krypton	83-1						cps
Lead	206-1	1.87	1.96	1.92	1.92	2.18	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW Instrumnet Name : P8
Client Sample ID : LCSW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:22:09 DataFile Name : 041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.90	1.91	1.92	1.91	0.49	ppb
Lead	208-1	1.88	1.95	1.94	1.93	2.00	ppb
Lithium	6-1				100		%
Magnesium	24-2	1003.62	1004.71	1019.92	1009.42	0.90	ppb
Manganese	55-2	2.14	1.97	2.28	2.13	7.36	ppb
Molybdenum	94-1	11.28	11.52	11.62	11.47	1.50	ppb
Molybdenum	95-1	9.50	9.48	9.67	9.55	1.10	ppb
Molybdenum	96-1	9.60	9.87	9.85	9.77	1.53	ppb
Molybdenum	97-1	9.59	9.75	9.74	9.70	0.92	ppb
Molybdenum	98-1	9.48	9.61	9.45	9.52	0.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.03	2.22	2.29	2.18	6.12	ppb
Phosphorus	31-2	19.54	61.73	30.79	37.35	58.48	ppb
Potassium	39-2	992.05	979.63	1007.56	993.08	1.41	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				92		%
Selenium	82-1	10.34	10.54	9.59	10.16	4.96	ppb
Selenium	77-2	9.03	14.74	11.44	11.74	24.46	ppb
Selenium	78-2	10.52	7.00	11.63	9.72	24.89	ppb
Silicon	28-1	4.80	4.58	4.72	4.70	2.29	ppb
Silver	107-1	1.91	1.97	2.01	1.96	2.61	ppb
Silver	109-1	1.97	1.98	2.00	1.98	0.81	ppb
Sodium	23-2	1018.94	1007.85	1016.90	1014.56	0.58	ppb
Strontium	86-1	1.85	1.84	1.87	1.85	1.01	ppb
Strontium	88-1	1.86	1.88	1.84	1.86	1.05	ppb
Sulfur	34-1	-141.67	-300.81	-175.54	-206.01		ppb
Terbium	159-1				94		%
Terbium	159-2				95		%
Thallium	203-1	1.83	1.95	1.87	1.88	2.97	ppb
Thallium	205-1	1.82	1.88	1.87	1.86	1.60	ppb
Tin	118-1	9.74	9.86	9.90	9.83	0.87	ppb
Titanium	47-1	11.42	10.69	11.14	11.09	3.32	ppb
Uranium	238-1	1.78	1.81	1.81	1.80	1.02	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW Instrumnet Name : P8
Client Sample ID : LCSW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:22:09 DataFile Name : 041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.92	9.75	10.09	9.92	1.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	10.74	11.16	10.98	10.96	1.92	ppb
Zirconium	90-1	1.92	1.94	1.91	1.93	0.74	ppb
Zirconium	91-1	1.95	1.94	1.95	1.95	0.27	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS Instrumnet Name : P8
Client Sample ID : PBS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:26:25 DataFile Name : 042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.53	0.26	0.39	0.39	34.27	ppb
Antimony	121-1	0.00	0.00	0.01	0.00	116.28	ppb
Arsenic	75-2	0.01	0.00	-0.02	0.00		ppb
Barium	135-1	-0.04	-0.03	-0.03	-0.03		ppb
Barium	137-1	-0.04	-0.04	-0.04	-0.04		ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	32.77	ppb
Bismuth	209-1				94		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.03	0.04	0.05	44.17	ppb
Cadmium	106-1	-1.53	-1.89	-1.33	-1.59		ppb
Cadmium	111-1	-0.04	-0.04	-0.03	-0.04		ppb
Calcium	43-1	0.13	0.37	-0.19	0.10	276.06	ppb
Calcium	44-1	-3.55	-3.54	-2.84	-3.31		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.00	-0.02	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.01	0.00	224.86	ppb
Copper	63-2	-0.12	-0.07	0.05	-0.05		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				93		%
Holmium	165-2				96		%
Indium	115-1				93		%
Indium	115-2				93		%
Iron	54-2	0.71	0.93	0.57	0.74	24.58	ppb
Iron	56-2	0.18	0.26	0.36	0.26	34.02	ppb
Iron	57-2	-0.94	1.10	-0.29	-0.04		ppb
Krypton	83-1						cps
Lead	206-1	-0.01	0.00	0.01	0.00	330.65	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS Instrumnet Name : P8
Client Sample ID : PBS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:26:25 DataFile Name : 042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.00	0.01	0.01	86.60	ppb
Lead	208-1	0.00	0.00	0.01	0.00	106.42	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.49	0.14	-0.07	-0.14		ppb
Manganese	55-2	0.04	0.05	0.09	0.06	43.71	ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00	322.00	ppb
Molybdenum	95-1	0.00	0.00	0.01	0.00	54.93	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	85.45	ppb
Molybdenum	97-1	0.00	0.00	-0.01	0.00		ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	59.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	-0.08	-0.02	-0.03		ppb
Phosphorus	31-2	-17.89	-19.79	-18.23	-18.63		ppb
Potassium	39-2	-3.59	0.57	2.11	-0.30		ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				94		%
Scandium	45-2				92		%
Selenium	82-1	0.20	0.11	0.42	0.24	66.01	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.17	0.87	0.06	1302.77	ppb
Silicon	28-1	-0.84	-0.85	-0.39	-0.69		ppb
Silver	107-1	0.01	0.01	0.01	0.01	20.51	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.19	ppb
Sodium	23-2	-1.41	1.05	2.13	0.59	308.98	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	48.13	ppb
Sulfur	34-1	-213.19	-205.68	141.41	-92.49		ppb
Terbium	159-1				94		%
Terbium	159-2				95		%
Thallium	203-1	0.00	0.01	0.01	0.01	34.73	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.71	ppb
Tin	118-1	0.00	-0.01	0.01	0.00	260.77	ppb
Titanium	47-1	0.02	0.00	0.01	0.01	75.21	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS Instrumnet Name : P8
Client Sample ID : PBS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:26:25 DataFile Name : 042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				94		%
Zinc	66-2	0.52	0.38	0.62	0.51	23.71	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	317.75	ppb
Zirconium	91-1	0.01	0.00	0.00	0.01	62.97	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS Instrumnet Name : P8
Client Sample ID : LCSS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:29:47 DataFile Name : 043LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.39	41.76	39.51	40.22	3.32	ppb
Antimony	121-1	4.02	3.81	4.51	4.11	8.64	ppb
Arsenic	75-2	2.23	1.88	1.79	1.97	11.73	ppb
Barium	135-1	19.65	18.90	22.08	20.21	8.22	ppb
Barium	137-1	20.15	19.21	22.38	20.58	7.92	ppb
Beryllium	9-1	1.98	1.96	2.10	2.01	3.77	ppb
Bismuth	209-1				89		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	2.05	2.03	1.91	2.00	3.82	ppb
Cadmium	106-1	0.43	1.19	0.24	0.62	81.23	ppb
Cadmium	111-1	2.10	1.93	2.26	2.10	7.91	ppb
Calcium	43-1	987.53	945.81	1113.64	1015.66	8.60	ppb
Calcium	44-1	1004.25	952.08	1125.55	1027.29	8.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.89	3.67	3.82	3.79	3.04	ppb
Cobalt	59-2	2.09	2.07	1.99	2.05	2.56	ppb
Copper	63-2	4.61	4.66	4.57	4.61	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				88		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				90		%
Iron	54-2	425.57	418.62	425.83	423.34	0.97	ppb
Iron	56-2	424.44	422.73	416.08	421.08	1.05	ppb
Iron	57-2	427.82	413.89	415.90	419.20	1.80	ppb
Krypton	83-1						cps
Lead	206-1	2.02	1.79	2.28	2.03	12.04	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS Instrumnet Name : P8
Client Sample ID : LCSS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:29:47 DataFile Name : 043LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.00	1.87	2.26	2.04	9.85	ppb
Lead	208-1	2.02	1.86	2.29	2.05	10.67	ppb
Lithium	6-1				96		%
Magnesium	24-2	1012.34	1015.38	982.33	1003.35	1.82	ppb
Manganese	55-2	2.21	1.97	2.12	2.10	5.69	ppb
Molybdenum	94-1	11.72	11.11	13.15	11.99	8.70	ppb
Molybdenum	95-1	9.91	9.31	10.93	10.05	8.15	ppb
Molybdenum	96-1	10.11	9.46	11.31	10.29	9.14	ppb
Molybdenum	97-1	10.08	9.22	11.20	10.17	9.73	ppb
Molybdenum	98-1	9.97	9.19	11.00	10.05	9.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.15	2.09	1.97	2.07	4.57	ppb
Phosphorus	31-2	32.17	28.40	41.71	34.09	20.13	ppb
Potassium	39-2	986.89	975.03	963.61	975.17	1.19	ppb
Rhodium	103-1				88		%
Rhodium	103-2				92		%
Scandium	45-1				90		%
Scandium	45-2				90		%
Selenium	82-1	11.17	10.67	11.71	11.18	4.64	ppb
Selenium	77-2	16.45	16.34	8.05	13.62	35.37	ppb
Selenium	78-2	8.31	11.06	12.21	10.53	19.05	ppb
Silicon	28-1	5.05	4.32	6.77	5.38	23.39	ppb
Silver	107-1	1.98	1.95	2.23	2.05	7.43	ppb
Silver	109-1	2.04	1.99	2.23	2.09	6.22	ppb
Sodium	23-2	1025.80	1029.88	1000.42	1018.70	1.57	ppb
Strontium	86-1	1.91	1.83	2.13	1.96	8.15	ppb
Strontium	88-1	1.90	1.79	2.16	1.95	9.81	ppb
Sulfur	34-1	15.68	-372.43	737.56	126.94	443.76	ppb
Terbium	159-1				88		%
Terbium	159-2				92		%
Thallium	203-1	1.95	1.80	2.17	1.97	9.34	ppb
Thallium	205-1	1.96	1.81	2.14	1.97	8.48	ppb
Tin	118-1	10.21	9.64	11.13	10.33	7.30	ppb
Titanium	47-1	11.34	10.79	12.49	11.54	7.51	ppb
Uranium	238-1	1.90	1.74	2.07	1.90	8.63	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS Instrumnet Name : P8
Client Sample ID : LCSS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:29:47 DataFile Name : 043LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.97	9.85	10.03	9.95	0.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				90		%
Zinc	66-2	10.92	10.76	10.47	10.71	2.15	ppb
Zirconium	90-1	1.95	1.88	2.20	2.01	8.31	ppb
Zirconium	91-1	2.06	1.79	2.23	2.02	10.96	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 6020 Instrumnet Name : P8
Client Sample ID : PBW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:33:13 DataFile Name : 044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.11	0.48	0.85	0.40	120.16	ppb
Antimony	121-1	0.01	0.01	0.00	0.00	58.33	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	436.21	ppb
Barium	135-1	-0.06	-0.04	-0.05	-0.05		ppb
Barium	137-1	-0.05	-0.04	-0.05	-0.05		ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	11.53	ppb
Bismuth	209-1				90		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.06	-0.09	-0.01		ppb
Cadmium	106-1	-1.10	-2.23	-1.28	-1.54		ppb
Cadmium	111-1	-0.02	-0.05	-0.01	-0.03		ppb
Calcium	43-1	1.13	0.14	-0.50	0.26	315.84	ppb
Calcium	44-1	-3.07	-3.13	-3.46	-3.22		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.03	0.00	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	145.15	ppb
Copper	63-2	-0.09	-0.07	-0.04	-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				89		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				90		%
Iron	54-2	1.02	0.46	0.39	0.62	55.76	ppb
Iron	56-2	0.38	0.17	0.27	0.27	38.63	ppb
Iron	57-2	0.29	-0.50	-0.14	-0.11		ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.01	0.01	0.01	56.38	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 6020 Instrumnet Name : P8
Client Sample ID : PBW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:33:13 DataFile Name : 044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.02	0.00	0.01	117.27	ppb
Lead	208-1	0.01	0.01	0.00	0.01	72.68	ppb
Lithium	6-1				97		%
Magnesium	24-2	-0.23	-0.18	-0.26	-0.22		ppb
Manganese	55-2	0.06	0.00	0.08	0.04	81.08	ppb
Molybdenum	94-1	0.00	-0.01	0.01	0.00	592.02	ppb
Molybdenum	95-1	0.01	0.00	0.00	0.00	159.90	ppb
Molybdenum	96-1	0.01	0.01	0.00	0.01	77.79	ppb
Molybdenum	97-1	-0.01	0.00	-0.01	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	257.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.02	0.00	-0.01		ppb
Phosphorus	31-2	-8.59	-18.03	-15.17	-13.93		ppb
Potassium	39-2	-3.82	-1.42	-3.04	-2.76		ppb
Rhodium	103-1				89		%
Rhodium	103-2				93		%
Scandium	45-1				90		%
Scandium	45-2				90		%
Selenium	82-1	-0.14	0.27	0.11	0.08	254.64	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.53	-0.53	-0.53		ppb
Silicon	28-1	-0.26	-0.34	-0.69	-0.43		ppb
Silver	107-1	0.01	0.01	0.01	0.01	36.51	ppb
Silver	109-1	0.01	0.01	0.01	0.01	20.58	ppb
Sodium	23-2	-1.62	-0.94	-1.89	-1.48		ppb
Strontium	86-1	-0.01	0.01	0.00	0.00	16594.77	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	200.15	ppb
Sulfur	34-1	-11.00	-126.25	-382.91	-173.39		ppb
Terbium	159-1				89		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.01	0.01	0.01	14.99	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	22.05	ppb
Tin	118-1	0.01	0.02	0.00	0.01	103.79	ppb
Titanium	47-1	0.04	0.01	0.01	0.02	101.96	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 6020 Instrumnet Name : P8
Client Sample ID : PBW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:33:13 DataFile Name : 044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	-0.01	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				90		%
Zinc	66-2	0.40	0.54	0.67	0.54	25.42	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	59.51	ppb
Zirconium	91-1	-0.01	-0.01	0.00	-0.01		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 6020 Instrumnet Name : P8
Client Sample ID : LCSW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:36:35 DataFile Name : 045LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9926.35	9995.65	9978.66	9966.89	0.36	ppb
Antimony	121-1	520.66	514.63	520.48	518.59	0.66	ppb
Arsenic	75-2	523.50	525.35	520.39	523.08	0.48	ppb
Barium	135-1	2567.84	2559.89	2602.70	2576.81	0.88	ppb
Barium	137-1	2536.22	2567.10	2579.43	2560.91	0.87	ppb
Beryllium	9-1	494.41	495.30	490.74	493.48	0.49	ppb
Bismuth	209-1				86		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	508.74	513.46	519.01	513.74	1.00	ppb
Cadmium	106-1	504.01	512.09	517.16	511.09	1.30	ppb
Cadmium	111-1	488.49	494.69	499.03	494.07	1.07	ppb
Calcium	43-1	52862.85	51073.59	51178.19	51704.88	1.94	ppb
Calcium	44-1	50963.02	50535.73	50795.17	50764.64	0.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	490.10	497.63	489.86	492.53	0.90	ppb
Cobalt	59-2	526.26	534.00	525.80	528.69	0.87	ppb
Copper	63-2	5322.41	5388.27	5292.12	5334.27	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				90		%
Holmium	165-2				86		%
Indium	115-1				86		%
Indium	115-2				81		%
Iron	54-2	27260.16	27583.63	27098.61	27314.13	0.90	ppb
Iron	56-2	26434.71	26770.84	26209.62	26471.72	1.07	ppb
Iron	57-2	25042.98	25335.29	25107.17	25161.82	0.61	ppb
Krypton	83-1						cps
Lead	206-1	2555.36	2586.28	2527.29	2556.31	1.15	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 6020 Instrumnet Name : P8
Client Sample ID : LCSW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:36:35 DataFile Name : 045LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2528.13	2574.69	2519.56	2540.79	1.17	ppb
Lead	208-1	2560.24	2565.76	2536.24	2554.08	0.61	ppb
Lithium	6-1				94		%
Magnesium	24-2	53520.86	54247.89	53196.90	53655.22	1.00	ppb
Manganese	55-2	5256.26	5287.49	5149.62	5231.12	1.38	ppb
Molybdenum	94-1	5212.19	5073.74	5138.45	5141.46	1.35	ppb
Molybdenum	95-1	5225.75	5075.44	5102.47	5134.55	1.56	ppb
Molybdenum	96-1	5156.85	5141.00	5139.53	5145.79	0.19	ppb
Molybdenum	97-1	5156.36	5173.22	5125.08	5151.55	0.47	ppb
Molybdenum	98-1	5155.78	5071.53	5206.96	5144.76	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	522.84	533.98	527.32	528.05	1.06	ppb
Phosphorus	31-2	10512.16	10556.08	10302.85	10457.03	1.29	ppb
Potassium	39-2	25398.30	25559.13	25360.89	25439.44	0.41	ppb
Rhodium	103-1				85		%
Rhodium	103-2				81		%
Scandium	45-1				91		%
Scandium	45-2				85		%
Selenium	82-1	517.92	520.89	526.22	521.68	0.81	ppb
Selenium	77-2	533.41	520.59	586.34	546.78	6.37	ppb
Selenium	78-2	533.81	535.14	523.46	530.80	1.20	ppb
Silicon	28-1	486.01	470.73	474.37	477.04	1.67	ppb
Silver	107-1	514.80	521.44	523.32	519.85	0.86	ppb
Silver	109-1	518.56	519.36	523.40	520.44	0.50	ppb
Sodium	23-2	52245.97	52505.51	51197.24	51982.91	1.33	ppb
Strontium	86-1	520.92	524.47	525.89	523.76	0.49	ppb
Strontium	88-1	517.08	518.26	521.35	518.90	0.43	ppb
Sulfur	34-1	12687.22	10097.29	10372.55	11052.35	12.87	ppb
Terbium	159-1				90		%
Terbium	159-2				87		%
Thallium	203-1	516.89	524.46	511.76	517.70	1.23	ppb
Thallium	205-1	506.53	518.07	502.49	509.03	1.59	ppb
Tin	118-1	515.81	520.46	521.55	519.27	0.59	ppb
Titanium	47-1	5075.99	5163.42	5112.82	5117.41	0.86	ppb
Uranium	238-1	497.53	500.48	501.29	499.77	0.40	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 6020 Instrumnet Name : P8
Client Sample ID : LCSW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:36:35 DataFile Name : 045LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	494.54	500.65	493.92	496.37	0.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				84		%
Zinc	66-2	5320.40	5420.61	5241.71	5327.57	1.68	ppb
Zirconium	90-1	518.86	511.57	514.66	515.03	0.71	ppb
Zirconium	91-1	520.72	508.94	518.52	516.06	1.21	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS 6020 Instrumnet Name : P8
Client Sample ID : PBS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:42:49 DataFile Name : 047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.03	0.46	1.40	0.63	110.34	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	10.59	ppb
Arsenic	75-2	0.02	0.00	0.02	0.01	100.95	ppb
Barium	135-1	0.07	0.04	0.02	0.04	60.09	ppb
Barium	137-1	0.05	0.04	0.04	0.04	18.48	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	4.53	ppb
Bismuth	209-1				87		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.15	0.00	0.09	85.19	ppb
Cadmium	106-1	-2.20	-2.12	-2.87	-2.40		ppb
Cadmium	111-1	-0.05	-0.04	-0.06	-0.05		ppb
Calcium	43-1	0.73	-0.10	1.56	0.73	113.47	ppb
Calcium	44-1	-2.64	-2.66	-2.29	-2.53		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	-0.03	0.00	0.00		ppb
Cobalt	59-2	0.02	0.02	0.01	0.01	22.46	ppb
Copper	63-2	0.03	0.03	0.07	0.04	43.40	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				87		%
Holmium	165-2				84		%
Indium	115-1				87		%
Indium	115-2				82		%
Iron	54-2	0.69	0.70	0.80	0.73	8.22	ppb
Iron	56-2	0.27	0.41	0.47	0.38	27.33	ppb
Iron	57-2	0.54	0.34	0.58	0.49	26.25	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.05	0.04	0.04	15.87	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS 6020 Instrumnet Name : P8
Client Sample ID : PBS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:42:49 DataFile Name : 047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.05	0.02	0.04	36.73	ppb
Lead	208-1	0.04	0.04	0.04	0.04	6.59	ppb
Lithium	6-1				90		%
Magnesium	24-2	0.30	-0.07	0.80	0.34	128.12	ppb
Manganese	55-2	0.20	0.28	0.20	0.23	18.17	ppb
Molybdenum	94-1	0.02	0.03	0.04	0.03	21.91	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	4.39	ppb
Molybdenum	96-1	0.03	0.03	0.03	0.03	8.65	ppb
Molybdenum	97-1	0.02	0.04	0.03	0.03	23.18	ppb
Molybdenum	98-1	0.03	0.05	0.03	0.04	22.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.09	-0.03	-0.05	0.00	3322.88	ppb
Phosphorus	31-2	-8.92	-2.24	-14.47	-8.54		ppb
Potassium	39-2	8.25	7.51	8.59	8.12	6.76	ppb
Rhodium	103-1				87		%
Rhodium	103-2				84		%
Scandium	45-1				87		%
Scandium	45-2				81		%
Selenium	82-1	0.17	0.31	0.04	0.17	79.19	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.14	-0.53	-0.14	-0.27		ppb
Silicon	28-1	-0.37	-0.12	0.04	-0.15		ppb
Silver	107-1	0.01	0.01	0.01	0.01	18.03	ppb
Silver	109-1	0.01	0.01	0.01	0.01	21.50	ppb
Sodium	23-2	4.19	3.95	4.44	4.19	5.90	ppb
Strontium	86-1	-0.01	0.00	0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	4.29	ppb
Sulfur	34-1	-251.54	-38.49	124.52	-55.17		ppb
Terbium	159-1				87		%
Terbium	159-2				83		%
Thallium	203-1	0.01	0.02	0.01	0.01	26.96	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	37.21	ppb
Tin	118-1	0.02	0.01	0.01	0.02	40.57	ppb
Titanium	47-1	0.03	0.02	0.02	0.03	19.56	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	26.37	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS 6020 Instrumnet Name : P8
Client Sample ID : PBS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:42:49 DataFile Name : 047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	341.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				81		%
Zinc	66-2	0.76	0.70	0.60	0.69	11.32	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	204.62	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS 6020 Instrumnet Name : P8
Client Sample ID : LCSS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:46:13 DataFile Name : 048LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9707.33	9920.28	9712.06	9779.89	1.24	ppb
Antimony	121-1	519.48	520.10	523.29	520.96	0.39	ppb
Arsenic	75-2	522.99	530.10	530.11	527.73	0.78	ppb
Barium	135-1	2561.88	2569.35	2608.34	2579.85	0.97	ppb
Barium	137-1	2542.92	2559.41	2587.57	2563.30	0.88	ppb
Beryllium	9-1	503.60	513.07	494.57	503.75	1.84	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	510.53	518.10	516.70	515.11	0.78	ppb
Cadmium	106-1	515.70	517.32	517.50	516.84	0.19	ppb
Cadmium	111-1	488.28	494.89	498.57	493.91	1.06	ppb
Calcium	43-1	52290.66	51891.83	51605.35	51929.28	0.66	ppb
Calcium	44-1	50979.33	50808.11	51390.11	51059.19	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	483.96	493.71	484.98	487.55	1.10	ppb
Cobalt	59-2	517.72	524.89	512.54	518.38	1.20	ppb
Copper	63-2	5247.63	5276.04	5214.32	5246.00	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				94		%
Holmium	165-2				95		%
Indium	115-1				92		%
Indium	115-2				89		%
Iron	54-2	26954.32	26966.23	26555.79	26825.45	0.87	ppb
Iron	56-2	25958.45	26443.15	26068.22	26156.61	0.97	ppb
Iron	57-2	24898.12	25266.36	24830.48	24998.32	0.94	ppb
Krypton	83-1						cps
Lead	206-1	2519.34	2551.60	2559.07	2543.33	0.83	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS 6020 Instrumnet Name : P8
Client Sample ID : LCSS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:46:13 DataFile Name : 048LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2520.30	2580.54	2548.30	2549.72	1.18	ppb
Lead	208-1	2514.98	2571.14	2544.27	2543.46	1.10	ppb
Lithium	6-1				94		%
Magnesium	24-2	52184.00	52804.37	51737.07	52241.81	1.03	ppb
Manganese	55-2	5143.45	5186.84	5163.63	5164.64	0.42	ppb
Molybdenum	94-1	5039.78	5094.25	5060.32	5064.78	0.54	ppb
Molybdenum	95-1	5114.32	5103.40	4986.49	5068.07	1.40	ppb
Molybdenum	96-1	5145.65	5118.45	5037.31	5100.47	1.11	ppb
Molybdenum	97-1	5058.61	5103.98	5071.30	5077.96	0.46	ppb
Molybdenum	98-1	5100.38	5124.88	5098.77	5108.01	0.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	516.29	527.68	516.65	520.21	1.24	ppb
Phosphorus	31-2	10170.02	10331.54	10359.44	10287.00	0.99	ppb
Potassium	39-2	25331.22	25444.66	24995.99	25257.29	0.92	ppb
Rhodium	103-1				89		%
Rhodium	103-2				89		%
Scandium	45-1				95		%
Scandium	45-2				94		%
Selenium	82-1	518.96	520.17	511.37	516.83	0.92	ppb
Selenium	77-2	540.12	475.88	504.76	506.92	6.35	ppb
Selenium	78-2	532.21	502.60	511.18	515.33	2.96	ppb
Silicon	28-1	478.13	476.54	480.59	478.42	0.43	ppb
Silver	107-1	519.74	521.21	522.80	521.25	0.29	ppb
Silver	109-1	516.50	514.61	522.79	517.97	0.83	ppb
Sodium	23-2	51086.64	52286.69	50859.54	51410.95	1.49	ppb
Strontium	86-1	526.81	525.32	511.49	521.21	1.62	ppb
Strontium	88-1	516.76	512.40	508.94	512.70	0.76	ppb
Sulfur	34-1	10160.31	10330.89	10340.27	10277.16	0.99	ppb
Terbium	159-1				94		%
Terbium	159-2				94		%
Thallium	203-1	512.70	512.38	521.26	515.44	0.98	ppb
Thallium	205-1	505.27	514.05	503.48	507.60	1.11	ppb
Tin	118-1	523.90	530.07	520.35	524.77	0.94	ppb
Titanium	47-1	5144.97	5114.71	5151.24	5136.98	0.38	ppb
Uranium	238-1	491.55	502.20	493.56	495.77	1.14	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS 6020 Instrumnet Name : P8
Client Sample ID : LCSS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:46:13 DataFile Name : 048LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	487.41	496.63	486.90	490.31	1.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	5224.25	5355.48	5237.89	5272.54	1.37	ppb
Zirconium	90-1	509.12	508.03	502.56	506.57	0.69	ppb
Zirconium	91-1	519.23	520.34	505.43	515.00	1.61	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P8
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:49:30 DataFile Name : 049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51310.89	50723.98	45881.68	49305.52	6.04	ppb
Antimony	121-1	503.67	508.40	508.48	506.85	0.54	ppb
Arsenic	75-2	505.29	499.81	451.18	485.43	6.14	ppb
Barium	135-1	2528.57	2542.25	2537.35	2536.06	0.27	ppb
Barium	137-1	2495.80	2538.45	2560.86	2531.70	1.31	ppb
Beryllium	9-1	515.33	521.49	505.30	514.04	1.59	ppb
Bismuth	209-1				81		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	488.39	493.63	489.15	490.39	0.58	ppb
Cadmium	106-1	491.12	493.97	490.60	491.90	0.37	ppb
Cadmium	111-1	460.80	467.29	466.78	464.96	0.78	ppb
Calcium	43-1	246976.83	252363.07	250915.21	250085.04	1.11	ppb
Calcium	44-1	246677.65	252743.87	246305.79	248575.77	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	472.46	480.10	433.13	461.90	5.46	ppb
Cobalt	59-2	492.97	507.21	448.41	482.86	6.35	ppb
Copper	63-2	4764.71	4876.50	4333.69	4658.30	6.15	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				90		%
Holmium	165-2				92		%
Indium	115-1				84		%
Indium	115-2				84		%
Iron	54-2	123646.64	128326.31	113348.23	121773.73	6.29	ppb
Iron	56-2	124626.41	127861.29	113750.64	122079.45	6.06	ppb
Iron	57-2	124936.03	125543.36	114576.06	121685.15	5.07	ppb
Krypton	83-1						cps
Lead	206-1	2548.39	2594.23	2599.03	2580.55	1.08	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P8
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:49:30 DataFile Name : 049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2573.13	2593.85	2586.83	2584.60	0.41	ppb
Lead	208-1	2558.73	2587.05	2592.43	2579.40	0.70	ppb
Lithium	6-1				85		%
Magnesium	24-2	251306.95	248652.68	227684.63	242548.09	5.34	ppb
Manganese	55-2	4983.66	5110.98	4584.67	4893.10	5.61	ppb
Molybdenum	94-1	5106.92	5164.64	5159.91	5143.82	0.62	ppb
Molybdenum	95-1	5060.88	5119.75	5120.91	5100.51	0.67	ppb
Molybdenum	96-1	5128.49	5161.85	5118.39	5136.25	0.44	ppb
Molybdenum	97-1	5056.61	5164.37	5125.34	5115.44	1.07	ppb
Molybdenum	98-1	5111.36	5184.70	5126.93	5140.99	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	480.27	487.60	434.47	467.45	6.16	ppb
Phosphorus	31-2	9963.68	10216.43	9077.94	9752.69	6.13	ppb
Potassium	39-2	121600.49	123562.93	112147.36	119103.59	5.12	ppb
Rhodium	103-1				79		%
Rhodium	103-2				81		%
Scandium	45-1				88		%
Scandium	45-2				89		%
Selenium	82-1	491.11	491.94	498.97	494.01	0.87	ppb
Selenium	77-2	477.13	534.21	411.56	474.30	12.94	ppb
Selenium	78-2	482.49	483.52	456.67	474.23	3.21	ppb
Silicon	28-1	772.50	784.41	770.85	775.92	0.95	ppb
Silver	107-1	486.85	483.77	485.31	485.31	0.32	ppb
Silver	109-1	482.15	488.31	483.89	484.78	0.66	ppb
Sodium	23-2	248895.42	249709.98	226915.75	241840.38	5.35	ppb
Strontium	86-1	515.11	520.22	513.39	516.24	0.69	ppb
Strontium	88-1	510.20	507.31	510.87	509.46	0.37	ppb
Sulfur	34-1	12428.95	12676.20	12228.10	12444.41	1.80	ppb
Terbium	159-1				89		%
Terbium	159-2				92		%
Thallium	203-1	515.78	521.14	525.49	520.80	0.93	ppb
Thallium	205-1	518.91	516.26	518.26	517.81	0.27	ppb
Tin	118-1	507.21	516.03	512.09	511.78	0.86	ppb
Titanium	47-1	5171.84	5176.85	5155.98	5168.22	0.21	ppb
Uranium	238-1	517.01	526.48	533.59	525.70	1.58	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P8
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:49:30 DataFile Name : 049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	483.72	487.14	443.56	471.47	5.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				89		%
Zinc	66-2	4768.43	4883.77	4198.79	4617.00	7.94	ppb
Zirconium	90-1	514.16	516.05	516.44	515.55	0.24	ppb
Zirconium	91-1	521.02	524.34	524.73	523.37	0.39	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P8
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:56:19 DataFile Name : 050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.19	-0.21	0.74	0.24	199.86	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	3.10	ppb
Arsenic	75-2	-0.02	0.05	0.00	0.01	428.72	ppb
Barium	135-1	0.15	0.13	0.14	0.14	7.24	ppb
Barium	137-1	0.15	0.14	0.14	0.14	3.60	ppb
Beryllium	9-1	0.08	0.08	0.08	0.08	3.41	ppb
Bismuth	209-1				92		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.05	-0.02	0.03	158.85	ppb
Cadmium	106-1	-1.51	-2.38	-0.71	-1.53		ppb
Cadmium	111-1	-0.03	-0.04	0.01	-0.02		ppb
Calcium	43-1	2.49	1.02	1.80	1.77	41.64	ppb
Calcium	44-1	-1.44	-2.48	-2.33	-2.08		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.03	-0.02	0.01	273.00	ppb
Cobalt	59-2	0.03	0.03	0.03	0.03	4.74	ppb
Copper	63-2	-0.15	-0.08	-0.14	-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				92		%
Holmium	165-2				91		%
Indium	115-1				93		%
Indium	115-2				88		%
Iron	54-2	2.23	2.89	1.57	2.23	29.54	ppb
Iron	56-2	1.71	1.92	1.76	1.80	6.14	ppb
Iron	57-2	0.20	0.63	1.25	0.69	76.56	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.06	0.07	11.41	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P8
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:56:19 DataFile Name : 050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.06	0.06	0.06	3.03	ppb
Lead	208-1	0.07	0.06	0.06	0.07	4.10	ppb
Lithium	6-1				97		%
Magnesium	24-2	2.02	2.07	1.81	1.97	6.87	ppb
Manganese	55-2	0.19	0.20	0.23	0.20	10.84	ppb
Molybdenum	94-1	0.10	0.10	0.08	0.09	15.46	ppb
Molybdenum	95-1	0.10	0.08	0.07	0.08	14.78	ppb
Molybdenum	96-1	0.11	0.08	0.08	0.09	19.12	ppb
Molybdenum	97-1	0.09	0.08	0.07	0.08	10.98	ppb
Molybdenum	98-1	0.11	0.08	0.09	0.09	13.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.13	-0.02	-0.10	-0.09		ppb
Phosphorus	31-2	-15.98	-23.84	-15.91	-18.58		ppb
Potassium	39-2	11.99	8.51	7.53	9.34	25.10	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				92		%
Scandium	45-2				87		%
Selenium	82-1	0.01	0.03	0.05	0.03	58.28	ppb
Selenium	77-2	-0.36	0.86	-0.36	0.05	1488.52	ppb
Selenium	78-2	-0.53	0.56	0.90	0.31	240.13	ppb
Silicon	28-1	-0.65	-0.49	-0.36	-0.50		ppb
Silver	107-1	0.01	0.02	0.02	0.02	31.16	ppb
Silver	109-1	0.01	0.01	0.02	0.01	13.56	ppb
Sodium	23-2	10.09	12.27	9.24	10.53	14.83	ppb
Strontium	86-1	0.01	-0.01	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-381.87	-228.18	-134.46	-248.17		ppb
Terbium	159-1				91		%
Terbium	159-2				91		%
Thallium	203-1	0.02	0.01	0.02	0.02	29.14	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.97	ppb
Tin	118-1	0.02	0.01	0.01	0.01	47.35	ppb
Titanium	47-1	0.05	0.06	0.05	0.05	7.33	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	27.98	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P8
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:56:19 DataFile Name : 050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	80.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				88		%
Zinc	66-2	0.20	0.13	0.10	0.14	35.97	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	20.62	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	30.85	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 200.8 Instrumnet Name : P8
Client Sample ID : PBW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:59:45 DataFile Name : 051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.55	0.95	0.81	0.77	26.70	ppb
Antimony	121-1	0.02	0.01	0.02	0.02	13.03	ppb
Arsenic	75-2	-0.02	0.08	0.00	0.02	291.61	ppb
Barium	135-1	0.04	0.06	0.06	0.05	26.99	ppb
Barium	137-1	0.06	0.06	0.06	0.06	6.73	ppb
Beryllium	9-1	0.06	0.05	0.05	0.05	12.46	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.08	0.00	0.03	132.87	ppb
Cadmium	106-1	-2.27	-1.71	-1.86	-1.94		ppb
Cadmium	111-1	-0.04	-0.03	-0.04	-0.04		ppb
Calcium	43-1	-0.39	0.01	-0.09	-0.15		ppb
Calcium	44-1	-2.24	-3.29	-3.70	-3.08		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.06	-0.01	0.02	170.02	ppb
Cobalt	59-2	0.02	0.02	0.01	0.02	38.70	ppb
Copper	63-2	0.00	0.20	0.07	0.09	112.39	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				95		%
Holmium	165-2				90		%
Indium	115-1				96		%
Indium	115-2				87		%
Iron	54-2	0.18	1.28	0.79	0.75	72.93	ppb
Iron	56-2	0.21	0.86	0.60	0.56	58.81	ppb
Iron	57-2	0.03	0.78	-0.27	0.18	305.94	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.03	0.04	16.09	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 200.8 Instrumnet Name : P8
Client Sample ID : PBW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:59:45 DataFile Name : 051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.02	0.04	0.03	28.97	ppb
Lead	208-1	0.04	0.03	0.04	0.04	15.41	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.53	0.20	-0.03	-0.12		ppb
Manganese	55-2	0.14	0.17	0.19	0.17	15.83	ppb
Molybdenum	94-1	0.03	0.04	0.01	0.02	68.74	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	8.91	ppb
Molybdenum	96-1	0.03	0.01	0.02	0.02	58.63	ppb
Molybdenum	97-1	0.02	0.01	0.01	0.01	68.86	ppb
Molybdenum	98-1	0.03	0.02	0.02	0.02	17.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	0.07	0.02	0.01	449.46	ppb
Phosphorus	31-2	-17.73	-13.13	-17.48	-16.11		ppb
Potassium	39-2	3.16	15.05	5.93	8.05	77.31	ppb
Rhodium	103-1				95		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				86		%
Selenium	82-1	0.13	0.13	-0.18	0.03	692.64	ppb
Selenium	77-2	-0.36	-0.36	0.86	0.05	1521.34	ppb
Selenium	78-2	1.15	-0.53	-0.53	0.03	3048.48	ppb
Silicon	28-1	-0.43	-0.79	-1.21	-0.81		ppb
Silver	107-1	0.01	0.00	0.01	0.01	35.91	ppb
Silver	109-1	0.00	0.00	0.01	0.01	31.00	ppb
Sodium	23-2	1.23	14.73	6.66	7.54	90.12	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	155.13	ppb
Sulfur	34-1	-142.06	-403.51	-761.49	-435.69		ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	0.01	0.01	0.00	0.01	42.04	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.01	ppb
Tin	118-1	0.02	0.01	0.00	0.01	106.38	ppb
Titanium	47-1	0.00	0.01	0.02	0.01	152.73	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 200.8 Instrumnet Name : P8
Client Sample ID : PBW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:59:45 DataFile Name : 051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	-0.01	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				87		%
Zinc	66-2	0.37	0.92	0.56	0.62	44.50	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	82.14	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 200.8 Instrumnet Name : P8
Client Sample ID : LCSW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:03:08 DataFile Name : 052LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9834.65	9837.87	9873.07	9848.53	0.22	ppb
Antimony	121-1	498.25	564.09	495.05	519.13	7.51	ppb
Arsenic	75-2	513.97	513.96	517.46	515.13	0.39	ppb
Barium	135-1	2413.00	2777.38	2417.90	2536.09	8.24	ppb
Barium	137-1	2437.97	2800.28	2423.93	2554.06	8.35	ppb
Beryllium	9-1	475.98	546.66	494.36	505.67	7.25	ppb
Bismuth	209-1				88		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	489.20	566.24	490.55	515.33	8.56	ppb
Cadmium	106-1	491.92	564.50	493.83	516.75	8.00	ppb
Cadmium	111-1	465.02	537.05	471.29	491.12	8.12	ppb
Calcium	43-1	48437.85	57304.06	49400.97	51714.29	9.41	ppb
Calcium	44-1	47686.14	55892.69	48305.84	50628.22	9.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	487.81	487.49	495.73	490.34	0.95	ppb
Cobalt	59-2	529.41	520.28	525.24	524.98	0.87	ppb
Copper	63-2	5262.75	5235.77	5272.02	5256.85	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				93		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				88		%
Iron	54-2	26943.16	26715.72	27973.75	27210.88	2.46	ppb
Iron	56-2	26391.78	26414.78	26647.38	26484.65	0.53	ppb
Iron	57-2	25033.34	24962.51	25406.04	25133.96	0.95	ppb
Krypton	83-1						cps
Lead	206-1	2399.38	2777.19	2441.21	2539.26	8.16	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 200.8 Instrumnet Name : P8
Client Sample ID : LCSW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:03:08 DataFile Name : 052LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2388.85	2721.17	2471.58	2527.20	6.85	ppb
Lead	208-1	2395.30	2737.73	2460.36	2531.13	7.18	ppb
Lithium	6-1				94		%
Magnesium	24-2	52269.76	52641.45	52501.87	52471.03	0.36	ppb
Manganese	55-2	5187.72	5205.76	5216.81	5203.43	0.28	ppb
Molybdenum	94-1	4844.83	5505.74	4881.72	5077.43	7.31	ppb
Molybdenum	95-1	4901.48	5433.38	4893.99	5076.29	6.09	ppb
Molybdenum	96-1	4850.29	5479.44	4830.46	5053.40	7.30	ppb
Molybdenum	97-1	4837.33	5485.71	4917.22	5080.09	6.96	ppb
Molybdenum	98-1	4801.34	5513.07	4899.82	5071.41	7.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	520.49	516.72	524.36	520.52	0.73	ppb
Phosphorus	31-2	10300.16	10097.98	10221.85	10206.66	1.00	ppb
Potassium	39-2	24799.32	25050.42	25257.11	25035.62	0.92	ppb
Rhodium	103-1				88		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				91		%
Selenium	82-1	487.94	552.91	491.76	510.87	7.14	ppb
Selenium	77-2	513.47	545.94	550.34	536.59	3.75	ppb
Selenium	78-2	516.07	484.60	504.55	501.74	3.17	ppb
Silicon	28-1	444.31	519.54	457.87	473.90	8.46	ppb
Silver	107-1	504.58	569.68	493.05	522.44	7.91	ppb
Silver	109-1	497.88	559.47	498.28	518.54	6.83	ppb
Sodium	23-2	52024.59	51945.82	51561.49	51843.97	0.48	ppb
Strontium	86-1	493.97	560.68	492.94	515.86	7.52	ppb
Strontium	88-1	488.81	552.54	496.53	512.63	6.78	ppb
Sulfur	34-1	9344.41	11680.72	9555.05	10193.39	12.68	ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	483.99	555.33	506.38	515.24	7.08	ppb
Thallium	205-1	479.72	549.35	490.30	506.46	7.41	ppb
Tin	118-1	501.30	572.69	492.86	522.28	8.40	ppb
Titanium	47-1	4786.36	5628.63	4884.15	5099.71	9.03	ppb
Uranium	238-1	470.04	535.01	480.38	495.14	7.05	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 200.8 Instrumnet Name : P8
Client Sample ID : LCSW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:03:08 DataFile Name : 052LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	492.75	489.30	495.44	492.49	0.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				91		%
Zinc	66-2	5423.58	5269.48	5370.42	5354.50	1.46	ppb
Zirconium	90-1	480.04	548.87	484.79	504.57	7.62	ppb
Zirconium	91-1	491.23	552.59	495.89	513.24	6.66	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P8
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:05:58 DataFile Name : 053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50413.83	49980.97	50076.96	50157.26	0.45	ppb
Antimony	121-1	491.35	493.57	495.94	493.62	0.46	ppb
Arsenic	75-2	498.84	497.53	503.61	500.00	0.64	ppb
Barium	135-1	2490.34	2493.41	2524.21	2502.65	0.75	ppb
Barium	137-1	2510.75	2470.36	2529.63	2503.58	1.21	ppb
Beryllium	9-1	497.15	501.01	485.23	494.46	1.66	ppb
Bismuth	209-1				80		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	482.73	472.34	485.59	480.22	1.45	ppb
Cadmium	106-1	481.77	479.68	485.20	482.22	0.58	ppb
Cadmium	111-1	451.47	450.42	459.63	453.84	1.11	ppb
Calcium	43-1	243458.72	250973.33	242109.69	245513.91	1.95	ppb
Calcium	44-1	243450.57	248991.13	245924.45	246122.05	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	479.26	470.29	475.30	474.95	0.95	ppb
Cobalt	59-2	497.75	494.00	496.20	495.98	0.38	ppb
Copper	63-2	4840.34	4782.41	4841.18	4821.31	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				88		%
Holmium	165-2				89		%
Indium	115-1				82		%
Indium	115-2				80		%
Iron	54-2	127347.21	125229.14	125866.09	126147.48	0.86	ppb
Iron	56-2	126053.56	124090.32	125429.93	125191.27	0.80	ppb
Iron	57-2	126518.56	124984.58	125389.65	125630.93	0.63	ppb
Krypton	83-1						cps
Lead	206-1	2551.51	2537.96	2578.40	2555.95	0.81	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P8
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:05:58 DataFile Name : 053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2540.37	2538.75	2537.70	2538.94	0.05	ppb
Lead	208-1	2549.92	2541.96	2542.04	2544.64	0.18	ppb
Lithium	6-1				87		%
Magnesium	24-2	253595.64	248364.44	249179.91	250379.99	1.12	ppb
Manganese	55-2	5094.02	5011.56	5002.41	5036.00	1.00	ppb
Molybdenum	94-1	4998.44	5142.75	4984.79	5041.99	1.74	ppb
Molybdenum	95-1	4945.91	5146.08	4920.50	5004.16	2.47	ppb
Molybdenum	96-1	5065.84	5175.51	5010.57	5083.97	1.65	ppb
Molybdenum	97-1	5029.54	5145.33	5023.57	5066.15	1.35	ppb
Molybdenum	98-1	4995.01	5056.39	4972.63	5008.01	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	485.66	476.77	484.14	482.19	0.99	ppb
Phosphorus	31-2	9952.25	9752.15	9892.90	9865.77	1.04	ppb
Potassium	39-2	124459.96	121916.34	121488.32	122621.54	1.31	ppb
Rhodium	103-1				79		%
Rhodium	103-2				78		%
Scandium	45-1				87		%
Scandium	45-2				85		%
Selenium	82-1	483.49	480.20	475.34	479.68	0.86	ppb
Selenium	77-2	509.23	499.92	477.99	495.71	3.24	ppb
Selenium	78-2	502.24	486.12	497.44	495.27	1.67	ppb
Silicon	28-1	766.92	771.24	763.89	767.35	0.48	ppb
Silver	107-1	472.52	474.49	478.00	475.00	0.58	ppb
Silver	109-1	472.95	470.81	481.66	475.14	1.21	ppb
Sodium	23-2	250118.08	247355.29	246344.60	247939.32	0.79	ppb
Strontium	86-1	499.12	507.81	503.56	503.49	0.86	ppb
Strontium	88-1	502.82	510.62	498.25	503.90	1.24	ppb
Sulfur	34-1	11917.87	12299.79	11979.31	12065.66	1.70	ppb
Terbium	159-1				88		%
Terbium	159-2				88		%
Thallium	203-1	513.27	512.63	524.81	516.90	1.33	ppb
Thallium	205-1	521.81	515.23	515.70	517.58	0.71	ppb
Tin	118-1	492.41	503.32	504.32	500.01	1.32	ppb
Titanium	47-1	5012.65	5134.75	5077.12	5074.84	1.20	ppb
Uranium	238-1	518.32	519.46	516.24	518.01	0.32	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P8
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:05:58 DataFile Name : 053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	488.66	484.85	484.37	485.96	0.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				85		%
Zinc	66-2	4581.89	4842.42	4618.10	4680.80	3.02	ppb
Zirconium	90-1	505.71	511.20	495.81	504.24	1.55	ppb
Zirconium	91-1	512.59	527.29	516.53	518.80	1.47	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P8
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:19:04 DataFile Name : 057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.04	0.21	-0.14	0.01	1437.66	ppb
Antimony	121-1	0.01	0.01	0.02	0.02	17.74	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	0.05	0.03	0.05	0.04	18.78	ppb
Barium	137-1	0.03	0.05	0.05	0.05	24.63	ppb
Beryllium	9-1	0.06	0.06	0.06	0.06	3.63	ppb
Bismuth	209-1				95		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.02	0.04	0.04	49.00	ppb
Cadmium	106-1	-2.28	-0.20	-1.37	-1.28		ppb
Cadmium	111-1	-0.04	0.00	-0.03	-0.02		ppb
Calcium	43-1	-0.49	-0.25	-0.50	-0.41		ppb
Calcium	44-1	-4.52	-4.12	-4.04	-4.23		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.02	-0.02	0.00		ppb
Cobalt	59-2	0.01	0.02	0.02	0.02	40.35	ppb
Copper	63-2	0.04	0.02	-0.03	0.01	488.02	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				93		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	54-2	0.94	0.94	0.53	0.80	29.86	ppb
Iron	56-2	0.41	0.64	0.11	0.39	68.73	ppb
Iron	57-2	-0.63	0.73	-0.14	-0.02		ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.03	0.03	13.64	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P8
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:19:04 DataFile Name : 057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.03	0.04	7.75	ppb
Lead	208-1	0.04	0.03	0.03	0.03	14.76	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.09	-0.53	-0.29	-0.30		ppb
Manganese	55-2	0.15	0.13	0.17	0.15	13.83	ppb
Molybdenum	94-1	0.01	0.02	-0.01	0.01	195.68	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.02	34.94	ppb
Molybdenum	96-1	0.01	0.02	0.00	0.01	60.97	ppb
Molybdenum	97-1	0.01	0.02	0.01	0.01	41.73	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	6.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	-0.05	0.04	0.01	623.79	ppb
Phosphorus	31-2	-11.54	-18.91	-18.28	-16.24		ppb
Potassium	39-2	5.75	8.01	3.65	5.81	37.59	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	0.48	0.20	0.26	0.32	46.52	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.16	-0.53	-0.40		ppb
Silicon	28-1	-0.95	-0.71	-0.73	-0.80		ppb
Silver	107-1	0.00	0.01	0.01	0.01	44.46	ppb
Silver	109-1	0.00	0.00	0.00	0.00	25.39	ppb
Sodium	23-2	2.87	4.61	1.21	2.90	58.58	ppb
Strontium	86-1	-0.02	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-662.22	-483.85	-477.39	-541.16		ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.01	0.02	0.01	23.75	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	8.51	ppb
Tin	118-1	0.00	0.00	0.00	0.00		ppb
Titanium	47-1	0.02	0.02	0.02	0.02	10.84	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	6341.11	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P8
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:19:04 DataFile Name : 057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				90		%
Zinc	66-2	0.38	0.26	0.24	0.29	24.71	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	-0.01	0.01	0.00	559.53	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BL Instrumnet Name : P8
Client Sample ID : PBW174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:22:28 DataFile Name : 058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.21	-0.31	0.40	-0.04		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	16.21	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	0.00	0.03	0.01	0.02	83.46	ppb
Barium	137-1	0.01	0.02	0.02	0.01	38.58	ppb
Beryllium	9-1	0.05	0.06	0.05	0.05	9.67	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.03	0.13	0.04	204.36	ppb
Cadmium	106-1	-2.00	-1.78	-1.91	-1.89		ppb
Cadmium	111-1	-0.04	-0.03	-0.04	-0.04		ppb
Calcium	43-1	-0.16	-0.24	-0.32	-0.24		ppb
Calcium	44-1	-4.20	-4.49	-3.65	-4.11		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.00	0.00	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	45.93	ppb
Copper	63-2	-0.02	-0.09	0.01	-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				94		%
Holmium	165-2				95		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	0.43	0.72	0.29	0.48	45.17	ppb
Iron	56-2	0.23	0.43	0.45	0.37	32.15	ppb
Iron	57-2	0.23	0.47	0.53	0.41	39.48	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.01	0.03	0.02	41.64	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BL Instrumnet Name : P8
Client Sample ID : PBW174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:22:28 DataFile Name : 058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.01	0.02	47.77	ppb
Lead	208-1	0.03	0.02	0.02	0.02	16.05	ppb
Lithium	6-1				98		%
Magnesium	24-2	-0.73	-0.01	-0.19	-0.31		ppb
Manganese	55-2	0.13	0.14	0.12	0.13	8.59	ppb
Molybdenum	94-1	0.02	0.01	0.01	0.02	39.29	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	24.18	ppb
Molybdenum	96-1	0.02	0.01	0.01	0.01	18.57	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	75.07	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	16.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.02	-0.09	-0.02		ppb
Phosphorus	31-2	-27.58	-32.03	-23.93	-27.85		ppb
Potassium	39-2	1.38	6.69	2.68	3.58	77.31	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				95		%
Scandium	45-2				89		%
Selenium	82-1	-0.14	-0.19	0.22	-0.04		ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	1.76	0.53	-0.53	0.59	194.73	ppb
Silicon	28-1	-0.84	-1.12	-0.74	-0.90		ppb
Silver	107-1	0.01	0.01	0.01	0.01	12.36	ppb
Silver	109-1	0.00	0.00	0.00	0.00	30.20	ppb
Sodium	23-2	0.61	1.47	0.82	0.97	45.99	ppb
Strontium	86-1	-0.01	0.01	0.00	0.00	794.24	ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-535.50	-727.56	-392.28	-551.78		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.01	0.01	0.01	56.69	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.99	ppb
Tin	118-1	0.01	-0.01	0.00	0.00	708.14	ppb
Titanium	47-1	0.02	0.01	0.00	0.01	133.40	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BL Instrumnet Name : P8
Client Sample ID : PBW174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:22:28 DataFile Name : 058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	81.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				92		%
Zinc	66-2	0.13	0.46	0.22	0.27	63.50	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	80.03	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BS Instrumnet Name : P8
Client Sample ID : LCS174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:25:52 DataFile Name : 059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	44.85	39.68	37.76	40.76	8.99	ppb
Antimony	121-1	4.39	3.92	3.93	4.08	6.51	ppb
Arsenic	75-2	2.38	2.00	1.65	2.01	18.05	ppb
Barium	135-1	22.09	19.86	19.40	20.45	7.04	ppb
Barium	137-1	21.94	20.35	19.68	20.65	5.61	ppb
Beryllium	9-1	2.13	2.00	2.01	2.05	3.46	ppb
Bismuth	209-1				89		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	2.14	2.13	2.22	2.16	2.36	ppb
Cadmium	106-1	0.63	1.60	0.99	1.07	45.75	ppb
Cadmium	111-1	2.20	2.02	2.01	2.08	5.01	ppb
Calcium	43-1	1114.71	1017.83	1005.41	1045.99	5.72	ppb
Calcium	44-1	1102.25	1007.79	996.35	1035.46	5.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.76	3.58	3.27	3.54	6.96	ppb
Cobalt	59-2	2.06	1.85	1.73	1.88	8.85	ppb
Copper	63-2	4.53	4.14	3.87	4.18	7.91	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				88		%
Holmium	165-2				102		%
Indium	115-1				89		%
Indium	115-2				98		%
Iron	54-2	428.34	395.33	357.27	393.65	9.03	ppb
Iron	56-2	422.85	394.52	365.18	394.18	7.32	ppb
Iron	57-2	423.10	385.80	353.18	387.36	9.03	ppb
Krypton	83-1						cps
Lead	206-1	2.22	1.97	1.94	2.05	7.57	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BS Instrumnet Name : P8
Client Sample ID : LCS174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:25:52 DataFile Name : 059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.23	2.00	1.96	2.06	6.91	ppb
Lead	208-1	2.23	2.00	1.96	2.06	7.24	ppb
Lithium	6-1				96		%
Magnesium	24-2	1003.52	925.34	842.19	923.68	8.73	ppb
Manganese	55-2	2.15	2.21	1.87	2.08	8.84	ppb
Molybdenum	94-1	12.63	11.76	11.68	12.02	4.35	ppb
Molybdenum	95-1	10.78	9.89	9.63	10.10	5.98	ppb
Molybdenum	96-1	10.74	10.04	9.84	10.21	4.65	ppb
Molybdenum	97-1	10.68	10.00	9.93	10.20	4.06	ppb
Molybdenum	98-1	10.45	9.87	9.65	9.99	4.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.22	1.94	1.62	1.93	15.44	ppb
Phosphorus	31-2	16.51	30.15	7.72	18.13	62.35	ppb
Potassium	39-2	990.58	902.37	823.61	905.52	9.22	ppb
Rhodium	103-1				88		%
Rhodium	103-2				100		%
Scandium	45-1				89		%
Scandium	45-2				96		%
Selenium	82-1	10.80	9.50	10.64	10.31	6.90	ppb
Selenium	77-2	12.77	14.29	7.43	11.50	31.33	ppb
Selenium	78-2	8.25	11.18	8.93	9.46	16.20	ppb
Silicon	28-1	6.35	5.00	5.28	5.54	12.84	ppb
Silver	107-1	2.18	1.97	1.98	2.04	5.83	ppb
Silver	109-1	2.18	1.99	2.00	2.06	5.05	ppb
Sodium	23-2	1012.87	931.49	852.66	932.34	8.59	ppb
Strontium	86-1	2.09	1.84	1.82	1.92	7.91	ppb
Strontium	88-1	2.05	1.90	1.88	1.94	4.90	ppb
Sulfur	34-1	301.00	-260.63	-278.16	-79.26		ppb
Terbium	159-1				88		%
Terbium	159-2				100		%
Thallium	203-1	2.16	1.90	1.84	1.96	8.63	ppb
Thallium	205-1	2.13	1.90	1.88	1.97	6.92	ppb
Tin	118-1	10.93	10.12	9.94	10.33	5.09	ppb
Titanium	47-1	12.17	10.98	10.76	11.31	6.70	ppb
Uranium	238-1	2.05	1.81	1.78	1.88	7.87	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BS Instrumnet Name : P8
Client Sample ID : LCS174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:25:52 DataFile Name : 059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.79	8.72	8.33	8.95	8.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				101		%
Zinc	66-2	11.10	10.07	9.15	10.11	9.66	ppb
Zirconium	90-1	2.14	2.00	1.90	2.01	5.97	ppb
Zirconium	91-1	2.18	2.01	1.97	2.05	5.55	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-01 Instrumnet Name : P8
Client Sample ID : MC0B00 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:29:13 DataFile Name : 060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.79	15.69	13.62	14.04	10.64	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	11.69	ppb
Arsenic	75-2	0.20	0.43	0.13	0.26	60.76	ppb
Barium	135-1	112.21	116.67	115.02	114.63	1.97	ppb
Barium	137-1	113.04	117.48	116.05	115.52	1.96	ppb
Beryllium	9-1	0.42	0.40	0.42	0.42	2.55	ppb
Bismuth	209-1				87		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.94	1.13	0.78	0.95	18.29	ppb
Cadmium	106-1	-0.87	0.05	0.19	-0.21		ppb
Cadmium	111-1	0.91	0.98	1.05	0.98	7.16	ppb
Calcium	43-1	47736.90	47580.96	47750.45	47689.43	0.20	ppb
Calcium	44-1	47252.61	47170.02	47236.25	47219.62	0.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.95	4.88	4.92	4.92	0.64	ppb
Cobalt	59-2	2.03	1.93	1.89	1.95	3.64	ppb
Copper	63-2	0.38	0.43	0.34	0.39	11.67	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				92		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				88		%
Iron	54-2	23.98	21.03	22.07	22.36	6.70	ppb
Iron	56-2	17.20	17.19	17.00	17.13	0.68	ppb
Iron	57-2	20.19	17.96	16.77	18.31	9.49	ppb
Krypton	83-1						cps
Lead	206-1	0.48	0.44	0.42	0.45	7.35	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-01 Instrumnet Name : P8
Client Sample ID : MC0B00 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:29:13 DataFile Name : 060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.46	0.41	0.38	0.42	10.68	ppb
Lead	208-1	0.46	0.41	0.39	0.42	8.88	ppb
Lithium	6-1				96		%
Magnesium	24-2	25000.96	24689.19	24429.03	24706.39	1.16	ppb
Manganese	55-2	1655.66	1620.20	1595.21	1623.69	1.87	ppb
Molybdenum	94-1	0.11	0.12	0.12	0.12	7.09	ppb
Molybdenum	95-1	0.12	0.12	0.12	0.12	2.83	ppb
Molybdenum	96-1	0.11	0.09	0.11	0.10	14.63	ppb
Molybdenum	97-1	0.11	0.11	0.11	0.11	1.10	ppb
Molybdenum	98-1	0.10	0.11	0.11	0.11	4.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.84	10.02	9.80	9.88	1.18	ppb
Phosphorus	31-2	-14.22	-12.77	-17.85	-14.95		ppb
Potassium	39-2	4767.40	4685.67	4705.35	4719.47	0.90	ppb
Rhodium	103-1				87		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				88		%
Selenium	82-1	3.08	3.45	4.24	3.59	16.49	ppb
Selenium	77-2	6.70	10.34	9.07	8.71	21.22	ppb
Selenium	78-2	2.59	2.97	5.02	3.53	37.04	ppb
Silicon	28-1	1210.43	1207.90	1216.48	1211.60	0.36	ppb
Silver	107-1	0.04	0.03	0.03	0.03	23.64	ppb
Silver	109-1	0.03	0.03	0.02	0.02	17.82	ppb
Sodium	23-2	67573.19	66827.29	65699.77	66700.09	1.41	ppb
Strontium	86-1	293.43	299.06	307.46	299.98	2.35	ppb
Strontium	88-1	311.41	314.57	322.19	316.06	1.75	ppb
Sulfur	34-1	12496.69	12570.56	12512.19	12526.48	0.31	ppb
Terbium	159-1				91		%
Terbium	159-2				92		%
Thallium	203-1	0.52	0.52	0.52	0.52	0.63	ppb
Thallium	205-1	0.52	0.54	0.53	0.53	1.26	ppb
Tin	118-1	0.41	0.42	0.42	0.42	1.35	ppb
Titanium	47-1	0.69	0.79	0.69	0.72	7.81	ppb
Uranium	238-1	0.01	0.00	0.01	0.01	6.19	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-01 Instrumnet Name : P8
Client Sample ID : MC0B00 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:29:13 DataFile Name : 060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.05	0.04	0.05	18.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	9.81	9.76	9.97	9.85	1.11	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	17.68	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	21.32	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02 Instrumnet Name : P8
Client Sample ID : MC0B01 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:32:35 DataFile Name : 061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	131.83	129.05	139.87	133.58	4.21	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	2.02	ppb
Arsenic	75-2	0.32	0.27	0.30	0.30	9.09	ppb
Barium	135-1	108.94	107.06	115.16	110.39	3.84	ppb
Barium	137-1	109.45	107.90	116.34	111.23	4.04	ppb
Beryllium	9-1	0.12	0.12	0.12	0.12	2.13	ppb
Bismuth	209-1				87		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.11	0.05	0.07	49.54	ppb
Cadmium	106-1	-0.52	-2.33	0.14	-0.90		ppb
Cadmium	111-1	0.06	0.00	0.07	0.04	80.14	ppb
Calcium	43-1	26492.76	26264.70	28305.11	27020.86	4.14	ppb
Calcium	44-1	27687.00	27308.62	29303.65	28099.76	3.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.13	1.13	1.19	1.15	3.16	ppb
Cobalt	59-2	0.17	0.19	0.15	0.17	11.66	ppb
Copper	63-2	0.18	0.19	0.21	0.19	8.12	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				90		%
Holmium	165-2				95		%
Indium	115-1				89		%
Indium	115-2				91		%
Iron	54-2	334.47	338.74	344.57	339.26	1.49	ppb
Iron	56-2	338.53	340.76	336.76	338.68	0.59	ppb
Iron	57-2	329.63	336.58	330.20	332.14	1.16	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.13	0.12	0.13	12.06	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02 Instrumnet Name : P8
Client Sample ID : MC0B01 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:32:35 DataFile Name : 061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.13	0.14	0.13	6.57	ppb
Lead	208-1	0.13	0.13	0.14	0.13	1.86	ppb
Lithium	6-1				95		%
Magnesium	24-2	17313.91	17200.49	17331.24	17281.88	0.41	ppb
Manganese	55-2	8.03	8.14	7.85	8.00	1.83	ppb
Molybdenum	94-1	0.34	0.38	0.41	0.38	9.83	ppb
Molybdenum	95-1	0.08	0.07	0.09	0.08	9.33	ppb
Molybdenum	96-1	0.13	0.14	0.12	0.13	8.70	ppb
Molybdenum	97-1	0.08	0.08	0.10	0.08	11.79	ppb
Molybdenum	98-1	0.09	0.09	0.10	0.10	7.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.85	0.80	0.87	0.84	4.59	ppb
Phosphorus	31-2	-7.48	-9.04	-19.72	-12.08		ppb
Potassium	39-2	3255.12	3276.54	3235.31	3255.66	0.63	ppb
Rhodium	103-1				87		%
Rhodium	103-2				91		%
Scandium	45-1				90		%
Scandium	45-2				91		%
Selenium	82-1	4.60	4.50	5.21	4.77	8.08	ppb
Selenium	77-2	5.46	16.99	7.77	10.07	60.56	ppb
Selenium	78-2	4.61	9.00	6.65	6.76	32.53	ppb
Silicon	28-1	1108.31	1073.17	1164.34	1115.27	4.12	ppb
Silver	107-1	0.01	0.01	0.01	0.01	1.52	ppb
Silver	109-1	0.00	0.01	0.00	0.00	22.05	ppb
Sodium	23-2	23178.40	23030.72	23132.87	23114.00	0.33	ppb
Strontium	86-1	112.99	112.83	118.54	114.79	2.83	ppb
Strontium	88-1	120.14	119.63	127.12	122.30	3.42	ppb
Sulfur	34-1	14726.70	14610.05	15905.62	15080.79	4.75	ppb
Terbium	159-1				90		%
Terbium	159-2				95		%
Thallium	203-1	0.04	0.04	0.05	0.04	15.46	ppb
Thallium	205-1	0.05	0.04	0.04	0.04	9.92	ppb
Tin	118-1	0.15	0.12	0.16	0.14	11.54	ppb
Titanium	47-1	3.66	3.63	3.83	3.70	2.88	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	8.69	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02 Instrumnet Name : P8
Client Sample ID : MC0B01 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:32:35 DataFile Name : 061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.48	0.46	0.51	0.48	4.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				93		%
Zinc	66-2	3.01	3.37	3.19	3.19	5.55	ppb
Zirconium	90-1	0.17	0.16	0.16	0.16	3.44	ppb
Zirconium	91-1	0.17	0.19	0.19	0.19	6.04	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-03 Instrumnet Name : P8
Client Sample ID : MC0B01D Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:35:52 DataFile Name : 062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	143.06	144.77	145.44	144.43	0.85	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	17.86	ppb
Arsenic	75-2	0.19	0.21	0.24	0.21	12.24	ppb
Barium	135-1	107.38	107.71	107.76	107.62	0.19	ppb
Barium	137-1	109.13	109.45	107.79	108.79	0.81	ppb
Beryllium	9-1	0.11	0.12	0.11	0.11	4.35	ppb
Bismuth	209-1				90		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.13	-0.02	0.10	0.07	121.39	ppb
Cadmium	106-1	-0.21	-0.40	-0.38	-0.33		ppb
Cadmium	111-1	0.05	0.06	0.04	0.05	21.31	ppb
Calcium	43-1	25897.51	26368.75	26674.72	26313.66	1.49	ppb
Calcium	44-1	26828.83	27127.23	27676.78	27210.95	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.27	1.22	1.14	1.21	5.42	ppb
Cobalt	59-2	0.18	0.18	0.21	0.19	7.04	ppb
Copper	63-2	0.23	0.28	0.24	0.25	11.17	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				91		%
Indium	115-2				89		%
Iron	54-2	343.31	349.65	346.72	346.56	0.92	ppb
Iron	56-2	346.35	348.13	347.39	347.29	0.26	ppb
Iron	57-2	355.45	339.61	344.93	346.66	2.33	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.13	0.12	0.12	7.90	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-03 Instrumnet Name : P8
Client Sample ID : MC0B01D Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:35:52 DataFile Name : 062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.10	0.11	0.11	5.58	ppb
Lead	208-1	0.11	0.11	0.11	0.11	1.78	ppb
Lithium	6-1				96		%
Magnesium	24-2	18102.11	17795.04	17682.95	17860.03	1.22	ppb
Manganese	55-2	7.60	7.76	7.65	7.67	1.05	ppb
Molybdenum	94-1	0.36	0.32	0.37	0.35	7.46	ppb
Molybdenum	95-1	0.08	0.08	0.09	0.08	7.48	ppb
Molybdenum	96-1	0.11	0.12	0.12	0.12	6.23	ppb
Molybdenum	97-1	0.09	0.09	0.10	0.09	8.19	ppb
Molybdenum	98-1	0.09	0.08	0.09	0.09	4.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.77	0.77	0.88	0.81	7.89	ppb
Phosphorus	31-2	-1.76	-6.77	-5.04	-4.52		ppb
Potassium	39-2	3332.03	3301.66	3296.86	3310.18	0.58	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				93		%
Scandium	45-2				88		%
Selenium	82-1	4.30	4.49	4.40	4.40	2.13	ppb
Selenium	77-2	5.58	9.15	3.18	5.97	50.32	ppb
Selenium	78-2	4.01	4.02	4.34	4.12	4.48	ppb
Silicon	28-1	1080.63	1083.01	1090.66	1084.77	0.48	ppb
Silver	107-1	0.00	0.01	0.01	0.01	46.68	ppb
Silver	109-1	0.00	0.00	0.00	0.00	51.36	ppb
Sodium	23-2	24190.46	23408.59	23676.54	23758.53	1.67	ppb
Strontium	86-1	112.29	111.40	112.43	112.04	0.50	ppb
Strontium	88-1	119.78	119.53	119.01	119.44	0.33	ppb
Sulfur	34-1	14133.24	14381.80	14459.55	14324.86	1.19	ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.04	0.03	0.04	0.03	7.24	ppb
Thallium	205-1	0.03	0.04	0.04	0.04	5.06	ppb
Tin	118-1	0.14	0.12	0.13	0.13	5.89	ppb
Titanium	47-1	3.68	3.66	3.66	3.67	0.31	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	6.08	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-03 Instrumnet Name : P8
Client Sample ID : MC0B01D Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:35:52 DataFile Name : 062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.52	0.51	0.55	0.53	4.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				91		%
Zinc	66-2	3.06	3.33	3.04	3.14	5.10	ppb
Zirconium	90-1	0.15	0.16	0.16	0.16	3.02	ppb
Zirconium	91-1	0.15	0.19	0.16	0.17	13.95	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02LX5 Instrumnet Name : P8
Client Sample ID : MC0B01L Dilution Factor : 5
Date & Time Acquired : 2025-01-24 13:39:10 DataFile Name : 063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37.63	32.50	30.79	33.64	10.59	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	33.32	ppb
Arsenic	75-2	0.02	0.09	0.05	0.05	69.55	ppb
Barium	135-1	21.40	21.62	21.45	21.49	0.53	ppb
Barium	137-1	21.65	21.72	21.64	21.67	0.22	ppb
Beryllium	9-1	0.04	0.04	0.05	0.04	14.42	ppb
Bismuth	209-1				93		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.02	0.03	0.02	80.98	ppb
Cadmium	106-1	-1.54	-1.50	-2.13	-1.73		ppb
Cadmium	111-1	-0.02	-0.02	-0.04	-0.03		ppb
Calcium	43-1	5312.76	5359.05	5392.13	5354.65	0.74	ppb
Calcium	44-1	5554.63	5578.95	5579.61	5571.06	0.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.34	0.31	0.22	0.29	20.65	ppb
Cobalt	59-2	0.05	0.03	0.04	0.04	19.50	ppb
Copper	63-2	0.03	-0.03	-0.09	-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				91		%
Holmium	165-2				87		%
Indium	115-1				93		%
Indium	115-2				83		%
Iron	54-2	84.81	80.22	70.39	78.47	9.39	ppb
Iron	56-2	85.14	78.59	68.31	77.35	10.97	ppb
Iron	57-2	83.70	76.15	66.47	75.44	11.45	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.04	0.04	0.04	13.90	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02LX5 Instrumnet Name : P8
Client Sample ID : MC0B01L Dilution Factor : 5
Date & Time Acquired : 2025-01-24 13:39:10 DataFile Name : 063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.02	0.04	29.40	ppb
Lead	208-1	0.04	0.04	0.03	0.04	8.26	ppb
Lithium	6-1				97		%
Magnesium	24-2	4122.71	3816.81	3368.42	3769.31	10.06	ppb
Manganese	55-2	1.91	1.85	1.72	1.83	5.30	ppb
Molybdenum	94-1	0.08	0.09	0.08	0.09	5.01	ppb
Molybdenum	95-1	0.03	0.02	0.02	0.02	22.93	ppb
Molybdenum	96-1	0.02	0.03	0.03	0.03	21.64	ppb
Molybdenum	97-1	0.01	0.01	0.02	0.02	32.55	ppb
Molybdenum	98-1	0.02	0.02	0.03	0.02	18.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.12	0.09	0.09	0.10	12.07	ppb
Phosphorus	31-2	-12.28	-17.66	-5.75	-11.90		ppb
Potassium	39-2	800.68	749.63	661.15	737.15	9.58	ppb
Rhodium	103-1				92		%
Rhodium	103-2				84		%
Scandium	45-1				93		%
Scandium	45-2				82		%
Selenium	82-1	1.32	1.18	1.10	1.20	9.61	ppb
Selenium	77-2	1.06	-0.36	1.97	0.89	132.10	ppb
Selenium	78-2	1.15	1.42	1.53	1.37	14.52	ppb
Silicon	28-1	214.71	218.43	219.04	217.39	1.08	ppb
Silver	107-1	0.00	0.00	0.00	0.00	102.90	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	5768.65	5364.67	4648.63	5260.65	10.78	ppb
Strontium	86-1	23.52	22.61	22.81	22.98	2.08	ppb
Strontium	88-1	23.51	22.95	22.95	23.14	1.40	ppb
Sulfur	34-1	2872.89	2883.33	2936.54	2897.59	1.18	ppb
Terbium	159-1				93		%
Terbium	159-2				86		%
Thallium	203-1	0.02	0.02	0.01	0.01	11.57	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	4.40	ppb
Tin	118-1	0.04	0.04	0.03	0.03	17.99	ppb
Titanium	47-1	0.76	0.74	0.81	0.77	4.64	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	3.21	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02LX5 Instrumnet Name : P8
Client Sample ID : MC0B01L Dilution Factor : 5
Date & Time Acquired : 2025-01-24 13:39:10 DataFile Name : 063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.11	0.09	0.10	11.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				83		%
Zinc	66-2	1.42	0.79	0.82	1.01	35.53	ppb
Zirconium	90-1	0.03	0.03	0.04	0.03	12.49	ppb
Zirconium	91-1	0.05	0.03	0.02	0.03	46.73	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-04 Instrumnet Name : P8
Client Sample ID : MC0B01S Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:42:30 DataFile Name : 064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2066.41	2090.97	2080.42	2079.26	0.59	ppb
Antimony	121-1	100.53	92.41	96.56	96.50	4.21	ppb
Arsenic	75-2	39.47	38.95	40.69	39.70	2.25	ppb
Barium	135-1	2298.85	2082.96	2134.61	2172.14	5.19	ppb
Barium	137-1	2263.81	2054.65	2145.37	2154.61	4.87	ppb
Beryllium	9-1	48.77	45.30	46.54	46.87	3.76	ppb
Bismuth	209-1				91		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	43.91	39.67	41.28	41.62	5.14	ppb
Cadmium	106-1	41.50	37.98	39.04	39.51	4.57	ppb
Cadmium	111-1	50.83	46.49	48.37	48.56	4.48	ppb
Calcium	43-1	27201.56	24973.04	25663.72	25946.11	4.40	ppb
Calcium	44-1	27952.83	25528.46	26518.75	26666.68	4.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	195.48	199.08	197.56	197.37	0.91	ppb
Cobalt	59-2	520.88	528.03	527.74	525.55	0.77	ppb
Copper	63-2	261.14	263.93	264.64	263.24	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				93		%
Holmium	165-2				96		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	1575.46	1566.60	1573.47	1571.84	0.30	ppb
Iron	56-2	1488.95	1516.30	1470.51	1491.92	1.54	ppb
Iron	57-2	1391.51	1396.22	1391.92	1393.21	0.19	ppb
Krypton	83-1						cps
Lead	206-1	20.46	18.57	19.24	19.42	4.95	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-04 Instrumnet Name : P8
Client Sample ID : MC0B01S Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:42:30 DataFile Name : 064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.42	18.64	18.98	19.35	4.87	ppb
Lead	208-1	20.47	18.59	19.16	19.41	4.98	ppb
Lithium	6-1				98		%
Magnesium	24-2	16974.18	17132.81	17278.66	17128.55	0.89	ppb
Manganese	55-2	505.68	503.09	507.36	505.38	0.43	ppb
Molybdenum	94-1	0.45	0.42	1.19	0.69	63.88	ppb
Molybdenum	95-1	0.16	0.16	0.16	0.16	1.63	ppb
Molybdenum	96-1	0.21	0.19	0.21	0.21	6.14	ppb
Molybdenum	97-1	0.14	0.13	0.12	0.13	9.05	ppb
Molybdenum	98-1	0.17	0.16	0.15	0.16	7.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	525.45	529.47	528.83	527.91	0.41	ppb
Phosphorus	31-2	-21.70	-4.95	-6.37	-11.01		ppb
Potassium	39-2	3187.37	3245.92	3261.18	3231.49	1.21	ppb
Rhodium	103-1				91		%
Rhodium	103-2				92		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	105.58	98.16	97.86	100.54	4.35	ppb
Selenium	77-2	111.03	100.29	108.01	106.44	5.21	ppb
Selenium	78-2	115.55	101.79	112.61	109.98	6.59	ppb
Silicon	28-1	1125.30	1030.35	1061.73	1072.46	4.51	ppb
Silver	107-1	50.76	46.52	48.38	48.55	4.38	ppb
Silver	109-1	50.68	46.71	48.85	48.75	4.08	ppb
Sodium	23-2	22697.34	22658.23	23270.83	22875.47	1.50	ppb
Strontium	86-1	115.82	106.40	106.77	109.66	4.87	ppb
Strontium	88-1	122.56	111.07	114.36	116.00	5.10	ppb
Sulfur	34-1	14845.93	12916.31	12851.76	13538.00	8.37	ppb
Terbium	159-1				93		%
Terbium	159-2				96		%
Thallium	203-1	49.76	45.14	46.20	47.03	5.14	ppb
Thallium	205-1	49.30	45.03	45.93	46.75	4.82	ppb
Tin	118-1	0.33	0.27	0.31	0.30	9.00	ppb
Titanium	47-1	4.52	3.51	3.95	3.99	12.74	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	15.71	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-04 Instrumnet Name : P8
Client Sample ID : MC0B01S Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:42:30 DataFile Name : 064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	481.89	487.88	487.40	485.72	0.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				94		%
Zinc	66-2	503.36	505.33	508.14	505.61	0.47	ppb
Zirconium	90-1	0.18	0.16	0.18	0.17	7.12	ppb
Zirconium	91-1	0.19	0.18	0.19	0.19	3.36	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-05 Instrumnet Name : P8
Client Sample ID : MC0B06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:45:44 DataFile Name : 065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.67	6.69	6.03	6.46	5.77	ppb
Antimony	121-1	0.03	0.02	0.03	0.03	17.34	ppb
Arsenic	75-2	0.50	0.31	0.40	0.40	23.62	ppb
Barium	135-1	110.73	101.30	108.26	106.76	4.58	ppb
Barium	137-1	111.80	102.52	108.55	107.62	4.37	ppb
Beryllium	9-1	0.11	0.10	0.12	0.11	6.53	ppb
Bismuth	209-1				90		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.36	0.46	0.45	0.42	13.61	ppb
Cadmium	106-1	-1.42	-0.52	-0.79	-0.91		ppb
Cadmium	111-1	0.49	0.44	0.49	0.48	6.16	ppb
Calcium	43-1	31258.81	28679.62	29710.02	29882.82	4.34	ppb
Calcium	44-1	30804.17	28098.80	30233.77	29712.24	4.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.77	0.75	0.71	0.74	4.43	ppb
Cobalt	59-2	5.61	5.40	5.12	5.38	4.63	ppb
Copper	63-2	0.29	0.44	0.34	0.36	20.54	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				93		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				90		%
Iron	54-2	784.94	783.99	761.85	776.93	1.68	ppb
Iron	56-2	794.05	785.95	762.12	780.71	2.13	ppb
Iron	57-2	780.81	760.35	730.50	757.22	3.34	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.09	0.09	0.09	5.28	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-05 Instrumnet Name : P8
Client Sample ID : MC0B06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:45:44 DataFile Name : 065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.08	0.10	0.10	15.17	ppb
Lead	208-1	0.11	0.09	0.10	0.10	8.33	ppb
Lithium	6-1				98		%
Magnesium	24-2	28876.58	28366.31	27333.45	28192.11	2.79	ppb
Manganese	55-2	984.97	981.61	944.25	970.27	2.33	ppb
Molybdenum	94-1	0.12	0.11	0.12	0.11	4.09	ppb
Molybdenum	95-1	0.12	0.11	0.11	0.11	3.37	ppb
Molybdenum	96-1	0.10	0.09	0.10	0.10	8.68	ppb
Molybdenum	97-1	0.08	0.10	0.09	0.09	10.93	ppb
Molybdenum	98-1	0.10	0.08	0.08	0.09	8.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.51	1.31	1.10	1.31	15.77	ppb
Phosphorus	31-2	-4.95	5.59	-10.76	-3.37		ppb
Potassium	39-2	2520.46	2520.55	2449.03	2496.68	1.65	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				89		%
Selenium	82-1	0.49	0.80	0.98	0.76	32.39	ppb
Selenium	77-2	0.82	7.94	5.34	4.70	76.64	ppb
Selenium	78-2	0.87	1.22	1.49	1.19	26.23	ppb
Silicon	28-1	2005.49	1839.90	1966.64	1937.34	4.47	ppb
Silver	107-1	0.04	0.03	0.03	0.03	13.08	ppb
Silver	109-1	0.04	0.03	0.02	0.03	27.46	ppb
Sodium	23-2	39383.89	39575.70	38521.64	39160.41	1.43	ppb
Strontium	86-1	164.92	152.55	162.82	160.10	4.14	ppb
Strontium	88-1	176.70	162.06	169.58	169.45	4.32	ppb
Sulfur	34-1	21646.18	19004.47	21076.60	20575.75	6.76	ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	0.17	0.15	0.17	0.16	7.78	ppb
Thallium	205-1	0.16	0.14	0.15	0.15	7.21	ppb
Tin	118-1	3.94	3.44	3.73	3.70	6.83	ppb
Titanium	47-1	0.91	0.90	0.94	0.92	2.26	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	6.62	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-05 Instrumnet Name : P8
Client Sample ID : MC0B06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:45:44 DataFile Name : 065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.06	0.07	0.06	0.06	9.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				92		%
Zinc	66-2	15.64	14.04	13.71	14.46	7.13	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	30.10	ppb
Zirconium	91-1	0.03	0.01	0.02	0.02	27.20	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-06 Instrumnet Name : P8
Client Sample ID : MC0B07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:49:00 DataFile Name : 066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.26	4.96	3.50	4.24	17.12	ppb
Antimony	121-1	0.01	0.01	0.00	0.01	38.30	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	409.01	ppb
Barium	135-1	0.13	0.13	0.16	0.14	13.02	ppb
Barium	137-1	0.14	0.12	0.15	0.14	10.76	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	11.25	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.07	-0.02	0.02	0.02	215.62	ppb
Cadmium	106-1	-1.18	-1.61	-1.47	-1.42		ppb
Cadmium	111-1	-0.02	-0.02	-0.03	-0.03		ppb
Calcium	43-1	11.27	11.22	13.53	12.01	10.99	ppb
Calcium	44-1	9.60	10.35	11.20	10.38	7.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.61	0.57	0.60	0.59	4.01	ppb
Cobalt	59-2	0.03	0.05	0.05	0.04	19.11	ppb
Copper	63-2	0.15	0.18	0.12	0.15	19.77	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				93		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	54-2	15.92	15.85	15.22	15.67	2.47	ppb
Iron	56-2	15.27	15.44	15.44	15.38	0.66	ppb
Iron	57-2	13.88	16.02	14.29	14.73	7.70	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.05	0.05	0.04	23.92	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-06 Instrumnet Name : P8
Client Sample ID : MC0B07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:49:00 DataFile Name : 066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.05	0.04	0.05	9.39	ppb
Lead	208-1	0.04	0.04	0.05	0.04	8.66	ppb
Lithium	6-1				96		%
Magnesium	24-2	2.18	2.16	1.53	1.96	19.03	ppb
Manganese	55-2	8.82	8.96	9.12	8.96	1.67	ppb
Molybdenum	94-1	0.06	0.06	0.09	0.07	27.94	ppb
Molybdenum	95-1	0.06	0.05	0.07	0.06	10.45	ppb
Molybdenum	96-1	0.06	0.06	0.06	0.06	5.42	ppb
Molybdenum	97-1	0.05	0.06	0.06	0.06	15.25	ppb
Molybdenum	98-1	0.05	0.07	0.05	0.05	19.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.20	0.29	0.26	18.03	ppb
Phosphorus	31-2	-20.98	-28.83	-14.43	-21.41		ppb
Potassium	39-2	7.54	6.69	9.14	7.79	15.99	ppb
Rhodium	103-1				93		%
Rhodium	103-2				91		%
Scandium	45-1				92		%
Scandium	45-2				88		%
Selenium	82-1	0.09	0.17	0.11	0.12	33.03	ppb
Selenium	77-2	-0.36	0.84	-0.36	0.04	1703.01	ppb
Selenium	78-2	-0.17	0.54	0.54	0.30	134.73	ppb
Silicon	28-1	1.36	1.71	2.00	1.69	19.19	ppb
Silver	107-1	0.01	0.01	0.01	0.01	24.46	ppb
Silver	109-1	0.00	0.01	0.00	0.00	40.35	ppb
Sodium	23-2	48.39	48.07	49.39	48.62	1.42	ppb
Strontium	86-1	0.03	0.02	0.00	0.02	87.03	ppb
Strontium	88-1	0.03	0.03	0.03	0.03	11.56	ppb
Sulfur	34-1	-644.18	-608.04	-448.26	-566.83		ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.01	0.02	0.01	10.24	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	14.24	ppb
Tin	118-1	2.97	3.02	2.93	2.97	1.50	ppb
Titanium	47-1	0.08	0.06	0.06	0.07	18.90	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	115.57	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-06 Instrumnet Name : P8
Client Sample ID : MC0B07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:49:00 DataFile Name : 066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	104.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				89		%
Zinc	66-2	4.07	3.83	3.53	3.81	7.04	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	108.16	ppb
Zirconium	91-1	0.01	0.00	0.01	0.00	36.91	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-07 Instrumnet Name : P8
Client Sample ID : MC0AL9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:52:24 DataFile Name : 067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.34	36.53	32.24	35.70	8.78	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	21.34	ppb
Arsenic	75-2	0.10	0.17	0.08	0.12	38.98	ppb
Barium	135-1	93.36	95.58	97.46	95.46	2.15	ppb
Barium	137-1	93.92	96.86	98.62	96.47	2.46	ppb
Beryllium	9-1	0.10	0.09	0.11	0.10	7.84	ppb
Bismuth	209-1				90		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.17	0.19	0.13	0.16	17.01	ppb
Cadmium	106-1	-2.12	-1.45	-2.36	-1.98		ppb
Cadmium	111-1	0.08	0.09	0.07	0.08	15.08	ppb
Calcium	43-1	15933.36	16498.34	17245.08	16558.93	3.97	ppb
Calcium	44-1	16389.65	17166.47	17825.51	17127.21	4.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.49	1.46	1.48	1.48	1.05	ppb
Cobalt	59-2	1.46	1.48	1.44	1.46	1.38	ppb
Copper	63-2	0.24	0.19	0.23	0.22	10.01	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				92		%
Holmium	165-2				94		%
Indium	115-1				91		%
Indium	115-2				90		%
Iron	54-2	472.48	475.62	477.93	475.35	0.58	ppb
Iron	56-2	479.86	478.20	475.59	477.88	0.45	ppb
Iron	57-2	486.10	477.27	464.94	476.10	2.23	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.10	0.10	0.09	20.68	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-07 Instrumnet Name : P8
Client Sample ID : MC0AL9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:52:24 DataFile Name : 067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.09	0.08	0.09	11.74	ppb
Lead	208-1	0.09	0.10	0.09	0.09	6.14	ppb
Lithium	6-1				96		%
Magnesium	24-2	13576.31	12981.79	12973.88	13177.33	2.62	ppb
Manganese	55-2	234.09	234.95	234.03	234.36	0.22	ppb
Molybdenum	94-1	0.12	0.10	0.13	0.12	11.77	ppb
Molybdenum	95-1	0.10	0.10	0.10	0.10	3.67	ppb
Molybdenum	96-1	0.12	0.10	0.09	0.10	12.19	ppb
Molybdenum	97-1	0.10	0.09	0.08	0.09	8.60	ppb
Molybdenum	98-1	0.09	0.10	0.11	0.10	14.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.04	4.87	4.74	4.89	3.09	ppb
Phosphorus	31-2	-11.47	-13.34	-27.46	-17.42		ppb
Potassium	39-2	1763.69	1765.39	1737.96	1755.68	0.88	ppb
Rhodium	103-1				90		%
Rhodium	103-2				91		%
Scandium	45-1				92		%
Scandium	45-2				89		%
Selenium	82-1	2.22	2.03	2.98	2.41	20.87	ppb
Selenium	77-2	4.36	0.82	2.00	2.39	75.41	ppb
Selenium	78-2	1.21	2.25	3.64	2.37	51.46	ppb
Silicon	28-1	1063.71	1094.82	1116.33	1091.62	2.42	ppb
Silver	107-1	0.01	0.01	0.00	0.01	35.62	ppb
Silver	109-1	0.00	0.00	0.00	0.00	65.94	ppb
Sodium	23-2	18245.26	17981.74	17939.31	18055.44	0.92	ppb
Strontium	86-1	119.32	121.17	123.10	121.19	1.56	ppb
Strontium	88-1	124.01	128.57	131.52	128.03	2.96	ppb
Sulfur	34-1	15307.47	15698.51	16115.60	15707.19	2.57	ppb
Terbium	159-1				92		%
Terbium	159-2				94		%
Thallium	203-1	0.11	0.10	0.11	0.11	1.68	ppb
Thallium	205-1	0.10	0.10	0.11	0.10	4.57	ppb
Tin	118-1	0.19	0.17	0.18	0.18	7.40	ppb
Titanium	47-1	1.13	1.15	1.22	1.17	4.14	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	17.38	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-07 Instrumnet Name : P8
Client Sample ID : MC0AL9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:52:24 DataFile Name : 067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.11	0.10	0.08	0.10	12.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				91		%
Zinc	66-2	3.64	3.47	3.22	3.44	6.18	ppb
Zirconium	90-1	0.03	0.02	0.03	0.03	12.84	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	23.54	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-08 Instrumnet Name : P8
Client Sample ID : MC0AM2 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:55:41 DataFile Name : 068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1182.80	1229.11	1190.47	1200.79	2.07	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	20.67	ppb
Arsenic	75-2	0.29	0.57	0.42	0.43	33.00	ppb
Barium	135-1	90.65	91.24	91.69	91.19	0.57	ppb
Barium	137-1	91.96	92.18	93.08	92.41	0.64	ppb
Beryllium	9-1	0.18	0.18	0.19	0.19	4.60	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.01	0.14	0.08	85.04	ppb
Cadmium	106-1	-0.57	-1.06	-1.36	-1.00		ppb
Cadmium	111-1	0.06	0.03	0.00	0.03	98.03	ppb
Calcium	43-1	23258.44	23755.75	23636.20	23550.13	1.10	ppb
Calcium	44-1	24037.43	24759.29	24550.69	24449.14	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.37	6.53	6.40	6.43	1.32	ppb
Cobalt	59-2	1.33	1.37	1.38	1.36	1.91	ppb
Copper	63-2	1.07	1.04	1.10	1.07	2.85	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				92		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				89		%
Iron	54-2	1449.15	1483.93	1450.46	1461.18	1.35	ppb
Iron	56-2	1532.91	1572.03	1545.14	1550.03	1.29	ppb
Iron	57-2	1429.04	1468.69	1419.09	1438.94	1.82	ppb
Krypton	83-1						cps
Lead	206-1	0.67	0.68	0.68	0.68	0.46	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-08 Instrumnet Name : P8
Client Sample ID : MC0AM2 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:55:41 DataFile Name : 068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.64	0.69	0.65	0.66	4.14	ppb
Lead	208-1	0.65	0.67	0.66	0.66	1.49	ppb
Lithium	6-1				96		%
Magnesium	24-2	16831.36	16516.00	16501.41	16616.26	1.12	ppb
Manganese	55-2	14.97	15.87	15.21	15.35	3.06	ppb
Molybdenum	94-1	1.17	1.16	1.19	1.17	1.06	ppb
Molybdenum	95-1	0.23	0.25	0.24	0.24	4.45	ppb
Molybdenum	96-1	0.32	0.35	0.36	0.35	5.93	ppb
Molybdenum	97-1	0.26	0.24	0.22	0.24	7.47	ppb
Molybdenum	98-1	0.25	0.23	0.24	0.24	2.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.64	1.63	1.81	1.69	5.94	ppb
Phosphorus	31-2	5.14	4.43	11.42	7.00	54.99	ppb
Potassium	39-2	3438.93	3493.13	3438.55	3456.87	0.91	ppb
Rhodium	103-1				89		%
Rhodium	103-2				91		%
Scandium	45-1				93		%
Scandium	45-2				89		%
Selenium	82-1	4.55	3.64	3.93	4.04	11.57	ppb
Selenium	77-2	5.49	19.77	12.45	12.57	56.81	ppb
Selenium	78-2	6.02	5.40	7.35	6.26	15.99	ppb
Silicon	28-1	1274.02	1309.89	1304.23	1296.05	1.49	ppb
Silver	107-1	0.00	0.00	0.01	0.00	35.88	ppb
Silver	109-1	0.00	0.00	0.00	0.00	42.26	ppb
Sodium	23-2	23059.22	23912.78	23103.25	23358.42	2.06	ppb
Strontium	86-1	107.14	108.42	109.88	108.48	1.26	ppb
Strontium	88-1	115.27	114.83	116.56	115.55	0.78	ppb
Sulfur	34-1	16032.52	16987.23	16764.99	16594.91	3.01	ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.03	0.04	0.03	0.03	11.88	ppb
Thallium	205-1	0.04	0.04	0.03	0.04	7.90	ppb
Tin	118-1	1.88	1.95	1.93	1.92	1.89	ppb
Titanium	47-1	40.81	41.64	41.21	41.22	1.01	ppb
Uranium	238-1	0.04	0.04	0.04	0.04	4.47	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-08 Instrumnet Name : P8
Client Sample ID : MC0AM2 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:55:41 DataFile Name : 068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.97	1.98	2.21	2.05	6.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	5.22	5.51	5.26	5.33	2.92	ppb
Zirconium	90-1	0.53	0.61	0.53	0.56	8.64	ppb
Zirconium	91-1	0.51	0.52	0.53	0.52	1.66	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-09 Instrumnet Name : P8
Client Sample ID : MC0AZ9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:59:00 DataFile Name : 069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	44.65	45.28	42.37	44.10	3.46	ppb
Antimony	121-1	0.03	0.02	0.03	0.03	10.96	ppb
Arsenic	75-2	0.17	0.28	0.18	0.21	28.76	ppb
Barium	135-1	173.61	172.15	176.04	173.93	1.13	ppb
Barium	137-1	174.52	173.82	179.17	175.84	1.66	ppb
Beryllium	9-1	0.91	0.90	0.92	0.91	0.83	ppb
Bismuth	209-1				88		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.51	0.35	0.39	26.22	ppb
Cadmium	106-1	0.27	0.00	0.12	0.13	107.30	ppb
Cadmium	111-1	0.38	0.36	0.42	0.38	7.15	ppb
Calcium	43-1	22579.28	22769.45	23649.97	22999.57	2.48	ppb
Calcium	44-1	23731.90	23420.45	24471.41	23874.59	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.59	1.55	1.45	1.53	4.80	ppb
Cobalt	59-2	3.36	3.46	3.34	3.39	1.83	ppb
Copper	63-2	1.55	1.57	1.47	1.53	3.59	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				92		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				88		%
Iron	54-2	57.18	54.48	54.44	55.37	2.83	ppb
Iron	56-2	52.90	54.53	51.90	53.11	2.50	ppb
Iron	57-2	56.25	54.51	47.81	52.86	8.44	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.25	0.22	0.24	6.62	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-09 Instrumnet Name : P8
Client Sample ID : MC0AZ9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:59:00 DataFile Name : 069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.24	0.21	0.23	4.89	ppb
Lead	208-1	0.23	0.24	0.23	0.23	3.27	ppb
Lithium	6-1				94		%
Magnesium	24-2	14390.65	14687.41	13995.24	14357.77	2.42	ppb
Manganese	55-2	205.53	211.34	200.70	205.86	2.59	ppb
Molybdenum	94-1	0.14	0.13	0.13	0.13	5.05	ppb
Molybdenum	95-1	0.10	0.08	0.08	0.08	11.60	ppb
Molybdenum	96-1	0.08	0.08	0.10	0.09	9.65	ppb
Molybdenum	97-1	0.08	0.09	0.09	0.09	8.02	ppb
Molybdenum	98-1	0.08	0.09	0.08	0.08	6.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.27	3.38	3.11	3.25	4.13	ppb
Phosphorus	31-2	-12.45	-11.94	-22.47	-15.62		ppb
Potassium	39-2	3484.92	3564.33	3420.64	3489.97	2.06	ppb
Rhodium	103-1				89		%
Rhodium	103-2				87		%
Scandium	45-1				91		%
Scandium	45-2				86		%
Selenium	82-1	2.44	2.57	3.30	2.77	16.65	ppb
Selenium	77-2	7.91	6.89	5.41	6.74	18.65	ppb
Selenium	78-2	1.21	4.10	4.91	3.41	57.01	ppb
Silicon	28-1	1200.25	1218.27	1252.11	1223.54	2.15	ppb
Silver	107-1	0.00	0.00	0.00	0.00	11.80	ppb
Silver	109-1	0.00	0.00	0.00	0.00	27.64	ppb
Sodium	23-2	56067.34	57298.54	54509.46	55958.45	2.50	ppb
Strontium	86-1	183.60	185.01	187.75	185.45	1.14	ppb
Strontium	88-1	191.44	194.92	200.61	195.66	2.37	ppb
Sulfur	34-1	11969.57	12173.87	12753.00	12298.81	3.30	ppb
Terbium	159-1				91		%
Terbium	159-2				91		%
Thallium	203-1	0.05	0.05	0.04	0.05	3.00	ppb
Thallium	205-1	0.05	0.04	0.05	0.04	11.61	ppb
Tin	118-1	11.84	11.94	12.26	12.02	1.80	ppb
Titanium	47-1	1.38	1.35	1.42	1.38	2.79	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	4.85	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-09 Instrumnet Name : P8
Client Sample ID : MC0AZ9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:59:00 DataFile Name : 069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.30	0.29	0.28	0.29	3.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	23.61	24.43	22.77	23.60	3.52	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	3.53	ppb
Zirconium	91-1	0.02	0.04	0.03	0.03	29.77	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-10 Instrumnet Name : P8
Client Sample ID : MC0B02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:02:18 DataFile Name : 070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51.16	53.29	52.69	52.38	2.09	ppb
Antimony	121-1	0.02	0.01	0.02	0.01	25.48	ppb
Arsenic	75-2	0.78	0.92	0.86	0.85	8.22	ppb
Barium	135-1	146.77	150.91	150.54	149.41	1.53	ppb
Barium	137-1	147.38	150.42	152.29	150.03	1.65	ppb
Beryllium	9-1	0.45	0.47	0.48	0.47	3.91	ppb
Bismuth	209-1				86		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.88	0.81	0.85	0.85	3.66	ppb
Cadmium	106-1	-0.79	1.26	0.52	0.33	313.36	ppb
Cadmium	111-1	0.73	0.72	0.65	0.70	5.78	ppb
Calcium	43-1	40291.70	41691.11	42758.43	41580.42	2.98	ppb
Calcium	44-1	39819.41	41695.09	42021.49	41178.66	2.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.68	0.63	0.68	0.66	4.39	ppb
Cobalt	59-2	35.15	35.35	34.94	35.15	0.58	ppb
Copper	63-2	0.23	0.28	0.19	0.23	19.08	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				92		%
Holmium	165-2				94		%
Indium	115-1				90		%
Indium	115-2				87		%
Iron	54-2	1266.72	1263.96	1236.55	1255.74	1.33	ppb
Iron	56-2	1344.81	1333.06	1327.13	1335.00	0.67	ppb
Iron	57-2	1255.63	1254.19	1212.06	1240.63	1.99	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.17	0.15	0.15	6.63	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-10 Instrumnet Name : P8
Client Sample ID : MC0B02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:02:18 DataFile Name : 070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.14	0.15	0.14	4.88	ppb
Lead	208-1	0.15	0.15	0.15	0.15	2.29	ppb
Lithium	6-1				94		%
Magnesium	24-2	37737.31	37467.69	36694.07	37299.69	1.45	ppb
Manganese	55-2	1468.72	1482.75	1447.44	1466.30	1.21	ppb
Molybdenum	94-1	0.14	0.13	0.11	0.13	10.22	ppb
Molybdenum	95-1	0.09	0.10	0.09	0.09	6.21	ppb
Molybdenum	96-1	0.09	0.10	0.09	0.09	5.00	ppb
Molybdenum	97-1	0.08	0.08	0.07	0.08	11.74	ppb
Molybdenum	98-1	0.07	0.07	0.09	0.08	14.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.80	4.98	4.99	4.92	2.15	ppb
Phosphorus	31-2	-20.75	-6.19	-14.53	-13.82		ppb
Potassium	39-2	4800.08	4828.54	4801.78	4810.13	0.33	ppb
Rhodium	103-1				87		%
Rhodium	103-2				86		%
Scandium	45-1				92		%
Scandium	45-2				87		%
Selenium	82-1	1.86	2.40	1.93	2.06	14.21	ppb
Selenium	77-2	17.92	7.55	10.93	12.13	43.58	ppb
Selenium	78-2	4.18	5.79	4.46	4.81	17.90	ppb
Silicon	28-1	1650.33	1731.85	1721.30	1701.16	2.61	ppb
Silver	107-1	0.01	0.01	0.02	0.02	12.66	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.61	ppb
Sodium	23-2	92029.23	92609.74	89795.72	91478.23	1.62	ppb
Strontium	86-1	331.07	341.83	346.21	339.71	2.29	ppb
Strontium	88-1	332.15	347.34	344.40	341.30	2.36	ppb
Sulfur	34-1	10842.30	10885.67	11400.46	11042.81	2.81	ppb
Terbium	159-1				91		%
Terbium	159-2				92		%
Thallium	203-1	0.11	0.11	0.13	0.12	10.80	ppb
Thallium	205-1	0.11	0.12	0.13	0.12	6.60	ppb
Tin	118-1	2.56	2.65	2.65	2.62	1.88	ppb
Titanium	47-1	2.16	2.12	2.18	2.16	1.33	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	4.41	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-10 Instrumnet Name : P8
Client Sample ID : MC0B02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:02:18 DataFile Name : 070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.24	0.18	0.19	21.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				95		%
Zinc	66-2	22.39	23.12	21.73	22.42	3.11	ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	7.87	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	6.90	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-11 Instrumnet Name : P8
Client Sample ID : MC0B04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:05:33 DataFile Name : 071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	73.40	68.40	68.81	70.20	3.95	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	18.45	ppb
Arsenic	75-2	0.92	0.91	0.67	0.84	17.43	ppb
Barium	135-1	87.13	88.60	87.78	87.84	0.84	ppb
Barium	137-1	87.94	90.00	88.61	88.85	1.19	ppb
Beryllium	9-1	0.23	0.23	0.25	0.24	3.78	ppb
Bismuth	209-1				89		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.22	0.12	0.14	0.16	34.51	ppb
Cadmium	106-1	-0.93	-0.29	-0.70	-0.64		ppb
Cadmium	111-1	0.11	0.13	0.15	0.13	14.01	ppb
Calcium	43-1	36246.17	37154.56	36646.25	36682.33	1.24	ppb
Calcium	44-1	35553.48	36569.50	36033.89	36052.29	1.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.65	1.61	1.61	1.62	1.22	ppb
Cobalt	59-2	1.56	1.43	1.50	1.50	4.30	ppb
Copper	63-2	0.08	0.08	0.04	0.07	30.85	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				92		%
Holmium	165-2				93		%
Indium	115-1				90		%
Indium	115-2				88		%
Iron	54-2	107.81	109.80	109.07	108.89	0.92	ppb
Iron	56-2	107.39	107.22	107.84	107.49	0.30	ppb
Iron	57-2	108.02	105.30	108.22	107.18	1.52	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.06	0.06	0.06	2.65	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-11 Instrumnet Name : P8
Client Sample ID : MC0B04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:05:33 DataFile Name : 071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.07	0.08	0.07	13.08	ppb
Lead	208-1	0.07	0.07	0.07	0.07	1.68	ppb
Lithium	6-1				94		%
Magnesium	24-2	18545.26	18256.49	18521.04	18440.93	0.87	ppb
Manganese	55-2	85.27	86.16	85.32	85.58	0.59	ppb
Molybdenum	94-1	0.10	0.09	0.08	0.09	10.30	ppb
Molybdenum	95-1	0.06	0.06	0.06	0.06	2.05	ppb
Molybdenum	96-1	0.06	0.08	0.07	0.07	8.88	ppb
Molybdenum	97-1	0.05	0.04	0.04	0.04	13.57	ppb
Molybdenum	98-1	0.06	0.05	0.06	0.06	7.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.04	2.00	2.09	2.04	2.13	ppb
Phosphorus	31-2	7.88	3.07	-17.56	-2.20		ppb
Potassium	39-2	3287.29	3286.44	3305.99	3293.24	0.34	ppb
Rhodium	103-1				87		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				88		%
Selenium	82-1	2.91	2.53	3.63	3.02	18.53	ppb
Selenium	77-2	18.08	27.48	24.85	23.47	20.67	ppb
Selenium	78-2	8.29	7.33	6.22	7.28	14.26	ppb
Silicon	28-1	1463.83	1497.73	1483.38	1481.65	1.15	ppb
Silver	107-1	0.00	0.00	0.00	0.00	36.86	ppb
Silver	109-1	0.00	0.00	0.00	0.00	77.50	ppb
Sodium	23-2	35949.49	35414.69	35852.68	35738.96	0.80	ppb
Strontium	86-1	110.78	111.56	111.26	111.20	0.36	ppb
Strontium	88-1	118.39	117.31	116.24	117.31	0.92	ppb
Sulfur	34-1	12416.50	12611.96	12614.61	12547.69	0.91	ppb
Terbium	159-1				92		%
Terbium	159-2				92		%
Thallium	203-1	0.05	0.04	0.04	0.04	9.89	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	8.75	ppb
Tin	118-1	0.07	0.06	0.05	0.06	15.75	ppb
Titanium	47-1	1.92	1.74	1.80	1.82	4.99	ppb
Uranium	238-1	0.00	0.01	0.00	0.00	15.95	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-11 Instrumnet Name : P8
Client Sample ID : MC0B04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:05:33 DataFile Name : 071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.12	0.13	0.13	0.13	2.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	2.37	2.99	2.62	2.66	11.62	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	10.06	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	17.86	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-12 Instrumnet Name : P8
Client Sample ID : MC0B09 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:08:48 DataFile Name : 072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	36.47	36.18	37.75	36.80	2.27	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.91	ppb
Arsenic	75-2	0.25	0.29	0.22	0.25	12.67	ppb
Barium	135-1	182.30	175.83	176.22	178.11	2.04	ppb
Barium	137-1	183.90	177.07	178.10	179.69	2.05	ppb
Beryllium	9-1	0.89	0.87	0.87	0.88	1.20	ppb
Bismuth	209-1				87		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.28	0.41	0.34	18.86	ppb
Cadmium	106-1	-0.54	-0.78	-1.04	-0.79		ppb
Cadmium	111-1	0.40	0.39	0.37	0.39	3.12	ppb
Calcium	43-1	23564.17	23240.02	22881.68	23228.63	1.47	ppb
Calcium	44-1	24578.64	24175.42	23638.77	24130.94	1.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.64	0.68	0.66	0.66	2.69	ppb
Cobalt	59-2	3.23	3.28	3.35	3.29	1.83	ppb
Copper	63-2	1.42	1.36	1.31	1.36	4.25	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				89		%
Holmium	165-2				93		%
Indium	115-1				89		%
Indium	115-2				88		%
Iron	54-2	20.90	24.18	23.72	22.93	7.74	ppb
Iron	56-2	22.99	23.20	23.18	23.13	0.49	ppb
Iron	57-2	22.85	21.76	23.83	22.81	4.54	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.24	0.19	0.22	13.09	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-12 Instrumnet Name : P8
Client Sample ID : MC0B09 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:08:48 DataFile Name : 072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.21	0.21	0.22	5.23	ppb
Lead	208-1	0.23	0.21	0.21	0.22	3.91	ppb
Lithium	6-1				93		%
Magnesium	24-2	14354.04	14359.50	14149.19	14287.58	0.84	ppb
Manganese	55-2	195.04	194.99	195.18	195.07	0.05	ppb
Molybdenum	94-1	0.10	0.10	0.09	0.10	9.36	ppb
Molybdenum	95-1	0.08	0.08	0.09	0.08	4.02	ppb
Molybdenum	96-1	0.06	0.09	0.08	0.08	15.25	ppb
Molybdenum	97-1	0.10	0.06	0.06	0.07	29.73	ppb
Molybdenum	98-1	0.08	0.07	0.08	0.08	7.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.32	1.45	1.29	1.36	6.13	ppb
Phosphorus	31-2	-17.51	-1.43	-22.23	-13.72		ppb
Potassium	39-2	3427.32	3420.04	3483.97	3443.78	1.02	ppb
Rhodium	103-1				87		%
Rhodium	103-2				88		%
Scandium	45-1				90		%
Scandium	45-2				87		%
Selenium	82-1	2.77	2.71	2.82	2.77	1.96	ppb
Selenium	77-2	5.49	11.31	4.39	7.06	52.68	ppb
Selenium	78-2	3.61	3.60	4.71	3.97	16.16	ppb
Silicon	28-1	1243.78	1216.28	1197.38	1219.15	1.91	ppb
Silver	107-1	0.00	0.00	0.00	0.00	13.86	ppb
Silver	109-1	0.00	0.00	0.00	0.00	173.60	ppb
Sodium	23-2	56727.23	55687.74	55869.51	56094.83	0.99	ppb
Strontium	86-1	190.62	185.62	189.50	188.58	1.39	ppb
Strontium	88-1	203.90	197.73	198.69	200.11	1.66	ppb
Sulfur	34-1	12710.56	12176.61	11961.66	12282.94	3.14	ppb
Terbium	159-1				90		%
Terbium	159-2				93		%
Thallium	203-1	0.05	0.05	0.04	0.05	10.28	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	5.25	ppb
Tin	118-1	0.22	0.18	0.19	0.20	9.22	ppb
Titanium	47-1	1.06	1.01	1.11	1.06	4.64	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	14.19	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-12 Instrumnet Name : P8
Client Sample ID : MC0B09 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:08:48 DataFile Name : 072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.28	0.27	0.31	0.29	7.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				92		%
Zinc	66-2	18.44	18.13	18.36	18.31	0.89	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	10.26	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	18.24	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-13 Instrumnet Name : P8
Client Sample ID : MC0B10 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:12:08 DataFile Name : 073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.04	2.80	3.52	2.78	26.64	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	3.16	ppb
Arsenic	75-2	-0.02	-0.02	0.01	-0.01		ppb
Barium	135-1	0.12	0.12	0.11	0.12	8.94	ppb
Barium	137-1	0.13	0.13	0.13	0.13	1.53	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	37.06	ppb
Bismuth	209-1				92		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.13	-0.01	0.07	0.06	110.79	ppb
Cadmium	106-1	-1.62	-1.83	-2.37	-1.94		ppb
Cadmium	111-1	-0.04	-0.03	-0.05	-0.04		ppb
Calcium	43-1	21.49	20.22	22.58	21.43	5.50	ppb
Calcium	44-1	19.44	18.50	18.99	18.98	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.59	0.68	0.58	0.62	8.59	ppb
Cobalt	59-2	0.01	0.01	0.03	0.02	55.04	ppb
Copper	63-2	-0.03	-0.01	0.03	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				92		%
Holmium	165-2				94		%
Indium	115-1				91		%
Indium	115-2				90		%
Iron	54-2	6.67	6.87	6.26	6.60	4.74	ppb
Iron	56-2	6.13	6.05	6.14	6.11	0.78	ppb
Iron	57-2	6.32	7.25	4.78	6.12	20.40	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.18	0.17	0.18	2.50	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-13 Instrumnet Name : P8
Client Sample ID : MC0B10 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:12:08 DataFile Name : 073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.16	0.15	0.16	8.11	ppb
Lead	208-1	0.17	0.16	0.16	0.16	5.26	ppb
Lithium	6-1				96		%
Magnesium	24-2	2.45	3.24	2.27	2.65	19.46	ppb
Manganese	55-2	1.26	1.36	1.42	1.35	5.72	ppb
Molybdenum	94-1	0.28	0.29	0.33	0.30	7.96	ppb
Molybdenum	95-1	0.04	0.05	0.06	0.05	18.72	ppb
Molybdenum	96-1	0.09	0.07	0.09	0.08	12.66	ppb
Molybdenum	97-1	0.05	0.05	0.05	0.05	1.90	ppb
Molybdenum	98-1	0.06	0.06	0.06	0.06	5.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.33	0.28	0.21	0.27	21.80	ppb
Phosphorus	31-2	-2.12	-16.18	-15.97	-11.42		ppb
Potassium	39-2	6.23	8.82	7.49	7.51	17.26	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				93		%
Scandium	45-2				88		%
Selenium	82-1	0.32	0.11	-0.20	0.07	351.05	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	-0.18	-0.17	-0.29		ppb
Silicon	28-1	1.01	0.96	1.31	1.09	17.17	ppb
Silver	107-1	0.00	0.00	0.00	0.00	55.17	ppb
Silver	109-1	0.00	0.00	0.00	0.00	494.57	ppb
Sodium	23-2	50.26	49.83	50.37	50.15	0.57	ppb
Strontium	86-1	0.06	0.06	0.05	0.06	10.61	ppb
Strontium	88-1	0.07	0.06	0.06	0.06	12.31	ppb
Sulfur	34-1	-674.56	-765.23	-715.28	-718.36		ppb
Terbium	159-1				91		%
Terbium	159-2				94		%
Thallium	203-1	0.01	0.01	0.00	0.01	46.02	ppb
Thallium	205-1	0.01	0.00	0.01	0.01	37.08	ppb
Tin	118-1	1.46	1.48	1.62	1.52	5.66	ppb
Titanium	47-1	0.07	0.06	0.06	0.06	7.69	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-13 Instrumnet Name : P8
Client Sample ID : MC0B10 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:12:08 DataFile Name : 073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.02	0.00	0.01	102.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				90		%
Zinc	66-2	1.29	1.23	1.13	1.22	6.38	ppb
Zirconium	90-1	0.12	0.13	0.14	0.13	7.09	ppb
Zirconium	91-1	0.12	0.14	0.14	0.13	9.11	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-14 Instrumnet Name : P8
Client Sample ID : MC0B11 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:15:29 DataFile Name : 074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.65	3.39	1.76	2.27	42.96	ppb
Antimony	121-1	0.01	0.00	0.01	0.01	19.40	ppb
Arsenic	75-2	-0.02	0.00	-0.02	-0.02		ppb
Barium	135-1	0.00	0.00	-0.01	-0.01		ppb
Barium	137-1	0.02	0.01	0.00	0.01	70.54	ppb
Beryllium	9-1	0.01	0.02	0.01	0.01	17.51	ppb
Bismuth	209-1				92		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	-0.04	0.05	-0.01		ppb
Cadmium	106-1	-1.86	-1.93	-1.30	-1.70		ppb
Cadmium	111-1	-0.04	-0.04	-0.03	-0.04		ppb
Calcium	43-1	14.25	16.07	14.38	14.90	6.83	ppb
Calcium	44-1	12.49	12.70	12.56	12.59	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.63	0.64	0.68	0.65	4.16	ppb
Cobalt	59-2	0.02	0.01	0.01	0.01	52.98	ppb
Copper	63-2	0.06	-0.05	0.07	0.03	253.13	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				92		%
Indium	115-2				91		%
Iron	54-2	4.89	4.77	5.76	5.14	10.56	ppb
Iron	56-2	4.23	4.28	4.07	4.19	2.65	ppb
Iron	57-2	3.66	4.36	4.49	4.17	10.68	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.06	0.06	0.06	3.27	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-14 Instrumnet Name : P8
Client Sample ID : MC0B11 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:15:29 DataFile Name : 074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.07	0.06	0.06	14.59	ppb
Lead	208-1	0.07	0.06	0.06	0.06	4.58	ppb
Lithium	6-1				96		%
Magnesium	24-2	1.27	0.79	0.97	1.01	24.29	ppb
Manganese	55-2	3.46	3.62	3.42	3.50	3.12	ppb
Molybdenum	94-1	0.15	0.16	0.13	0.15	7.96	ppb
Molybdenum	95-1	0.17	0.16	0.17	0.17	2.71	ppb
Molybdenum	96-1	0.18	0.17	0.18	0.17	4.74	ppb
Molybdenum	97-1	0.16	0.16	0.17	0.16	1.72	ppb
Molybdenum	98-1	0.16	0.16	0.18	0.17	4.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.22	0.24	0.33	0.27	22.52	ppb
Phosphorus	31-2	-25.69	-20.98	-21.05	-22.57		ppb
Potassium	39-2	29.46	21.96	22.90	24.77	16.49	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				92		%
Scandium	45-2				89		%
Selenium	82-1	0.13	-0.41	0.05	-0.08		ppb
Selenium	77-2	-0.36	0.83	-0.36	0.03	1959.61	ppb
Selenium	78-2	0.18	0.17	0.86	0.41	97.61	ppb
Silicon	28-1	0.91	1.14	1.23	1.10	14.93	ppb
Silver	107-1	0.00	0.00	0.00	0.00	25.87	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	263.23	259.82	254.04	259.03	1.79	ppb
Strontium	86-1	0.02	0.00	0.02	0.01	84.76	ppb
Strontium	88-1	0.02	0.03	0.02	0.02	9.07	ppb
Sulfur	34-1	-285.99	-332.29	-340.58	-319.62		ppb
Terbium	159-1				93		%
Terbium	159-2				95		%
Thallium	203-1	0.01	0.01	0.01	0.01	3.73	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	4.22	ppb
Tin	118-1	0.15	0.14	0.17	0.15	8.74	ppb
Titanium	47-1	0.05	0.06	0.06	0.06	15.53	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-14 Instrumnet Name : P8
Client Sample ID : MC0B11 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:15:29 DataFile Name : 074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	49.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				90		%
Zinc	66-2	0.42	0.46	0.44	0.44	4.40	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	115.34	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	74.85	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BL Instrumnet Name : P8
Client Sample ID : PBS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:18:53 DataFile Name : 075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.47	-0.12	-0.24	0.04	1089.91	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	63.51	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		ppb
Barium	135-1	-0.01	-0.04	-0.02	-0.03		ppb
Barium	137-1	-0.05	-0.03	-0.03	-0.04		ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	13.47	ppb
Bismuth	209-1				93		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	-0.03	0.05	-0.01		ppb
Cadmium	106-1	-0.70	-1.59	-1.75	-1.35		ppb
Cadmium	111-1	-0.01	-0.03	-0.04	-0.03		ppb
Calcium	43-1	0.61	-0.48	-0.51	-0.13		ppb
Calcium	44-1	-3.74	-4.32	-3.91	-3.99		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.00	0.01	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	63.53	ppb
Copper	63-2	-0.01	-0.05	-0.10	-0.05		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				94		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	0.05	0.34	0.07	0.16	105.56	ppb
Iron	56-2	0.00	0.16	0.20	0.12	86.01	ppb
Iron	57-2	0.59	-0.19	-0.17	0.07	599.98	ppb
Krypton	83-1						cps
Lead	206-1	-0.01	-0.01	-0.01	-0.01		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BL Instrumnet Name : P8
Client Sample ID : PBS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:18:53 DataFile Name : 075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.02	-0.02	0.00	-0.01		ppb
Lead	208-1	-0.01	-0.02	-0.01	-0.01		ppb
Lithium	6-1				96		%
Magnesium	24-2	-0.44	0.21	-0.38	-0.21		ppb
Manganese	55-2	0.16	0.06	0.13	0.12	45.62	ppb
Molybdenum	94-1	-0.01	0.00	0.00	-0.01		ppb
Molybdenum	95-1	0.00	0.01	-0.01	0.00	401.88	ppb
Molybdenum	96-1	0.01	0.00	0.00	0.00	139.29	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	51.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.07	-0.12	0.04	-0.05		ppb
Phosphorus	31-2	-24.32	-25.86	-22.64	-24.28		ppb
Potassium	39-2	-0.70	-0.85	-1.45	-1.00		ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				94		%
Scandium	45-2				90		%
Selenium	82-1	0.13	0.24	-0.16	0.07	303.57	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	0.18	-0.53	-0.53	-0.29		ppb
Silicon	28-1	-0.76	-0.76	-0.62	-0.71		ppb
Silver	107-1	0.00	0.00	0.00	0.00	98.55	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	6.26	4.43	5.53	5.41	17.02	ppb
Strontium	86-1	0.01	0.01	-0.01	0.00	2918.38	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	27.61	ppb
Sulfur	34-1	-751.87	-817.34	-617.09	-728.77		ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	0.00	0.00	0.00	0.00	135.77	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	49.97	ppb
Tin	118-1	-0.02	-0.03	-0.02	-0.02		ppb
Titanium	47-1	0.00	0.02	0.00	0.01	153.18	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BL Instrumnet Name : P8
Client Sample ID : PBS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:18:53 DataFile Name : 075CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	-0.01	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				91		%
Zinc	66-2	0.17	0.32	0.20	0.23	34.92	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	-0.01	-0.01	0.00		ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BS Instrumnet Name : P8
Client Sample ID : LCS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:24:33 DataFile Name : 076LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.50	39.54	37.25	39.43	5.39	ppb
Antimony	121-1	3.91	3.94	3.91	3.92	0.37	ppb
Arsenic	75-2	2.08	2.20	2.05	2.11	3.82	ppb
Barium	135-1	19.24	19.45	19.08	19.26	0.98	ppb
Barium	137-1	19.46	19.89	19.56	19.63	1.13	ppb
Beryllium	9-1	1.92	1.98	1.94	1.95	1.49	ppb
Bismuth	209-1				92		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	1.99	2.06	1.96	2.00	2.39	ppb
Cadmium	106-1	1.32	0.35	0.42	0.70	77.72	ppb
Cadmium	111-1	2.05	2.02	1.91	1.99	3.66	ppb
Calcium	43-1	1002.79	1009.86	998.83	1003.83	0.56	ppb
Calcium	44-1	995.53	1010.00	984.26	996.60	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.84	3.69	3.71	3.75	2.29	ppb
Cobalt	59-2	2.02	1.99	2.07	2.02	1.91	ppb
Copper	63-2	4.61	4.20	4.54	4.45	4.84	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				93		%
Holmium	165-2				95		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	425.38	419.03	416.55	420.32	1.08	ppb
Iron	56-2	428.37	413.39	419.88	420.55	1.79	ppb
Iron	57-2	416.69	409.75	424.06	416.83	1.72	ppb
Krypton	83-1						cps
Lead	206-1	1.94	1.97	1.90	1.94	1.73	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BS Instrumnet Name : P8
Client Sample ID : LCS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:24:33 DataFile Name : 076LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.96	1.95	1.90	1.94	1.67	ppb
Lead	208-1	1.93	1.95	1.89	1.92	1.68	ppb
Lithium	6-1				96		%
Magnesium	24-2	1004.41	958.37	978.51	980.43	2.35	ppb
Manganese	55-2	2.24	2.11	2.31	2.22	4.61	ppb
Molybdenum	94-1	11.54	11.73	11.15	11.48	2.58	ppb
Molybdenum	95-1	9.64	9.70	9.48	9.61	1.22	ppb
Molybdenum	96-1	9.98	10.03	9.55	9.85	2.69	ppb
Molybdenum	97-1	9.67	9.74	9.55	9.66	0.97	ppb
Molybdenum	98-1	9.56	9.68	9.50	9.58	0.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.11	2.12	2.06	2.09	1.57	ppb
Phosphorus	31-2	23.12	51.16	36.61	36.96	37.94	ppb
Potassium	39-2	974.16	936.83	972.67	961.22	2.20	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				92		%
Scandium	45-2				90		%
Selenium	82-1	10.65	10.69	10.63	10.66	0.28	ppb
Selenium	77-2	5.61	8.84	16.30	10.25	53.47	ppb
Selenium	78-2	9.31	6.92	9.63	8.62	17.17	ppb
Silicon	28-1	4.64	4.95	4.57	4.72	4.29	ppb
Silver	107-1	1.95	1.96	1.95	1.95	0.37	ppb
Silver	109-1	1.97	1.94	1.97	1.96	0.80	ppb
Sodium	23-2	1010.21	963.65	995.74	989.87	2.41	ppb
Strontium	86-1	1.81	1.92	1.79	1.84	3.84	ppb
Strontium	88-1	1.87	1.90	1.81	1.86	2.33	ppb
Sulfur	34-1	-416.13	-310.53	-511.05	-412.57		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	1.85	1.90	1.81	1.85	2.58	ppb
Thallium	205-1	1.88	1.91	1.85	1.88	1.62	ppb
Tin	118-1	9.88	10.03	9.78	9.90	1.31	ppb
Titanium	47-1	11.17	11.11	11.03	11.11	0.63	ppb
Uranium	238-1	1.84	1.82	1.77	1.81	2.03	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BS Instrumnet Name : P8
Client Sample ID : LCS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:24:33 DataFile Name : 076LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.76	9.75	9.96	9.82	1.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	10.96	10.49	10.66	10.70	2.23	ppb
Zirconium	90-1	1.89	1.95	1.87	1.90	2.09	ppb
Zirconium	91-1	1.95	1.91	1.83	1.89	3.13	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1102-01 Instrumnet Name : P8
Client Sample ID : MH2H28 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:27:55 DataFile Name : 077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5703.21	5402.04	5287.32	5464.19	3.93	ppb
Antimony	121-1	10.77	11.59	11.09	11.15	3.69	ppb
Arsenic	75-2	13.32	12.88	12.28	12.82	4.07	ppb
Barium	135-1	220.33	236.37	226.18	227.63	3.57	ppb
Barium	137-1	223.64	237.06	230.09	230.26	2.91	ppb
Beryllium	9-1	0.49	0.53	0.49	0.50	4.01	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	88.80	94.41	89.53	90.91	3.35	ppb
Cadmium	106-1	68.44	73.73	67.66	69.94	4.72	ppb
Cadmium	111-1	12.29	12.83	12.82	12.65	2.44	ppb
Calcium	43-1	79663.93	85859.83	81323.95	82282.57	3.90	ppb
Calcium	44-1	81032.83	85893.85	80604.53	82510.41	3.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44.69	42.41	41.54	42.88	3.80	ppb
Cobalt	59-2	7.60	7.36	7.01	7.32	4.08	ppb
Copper	63-2	250.52	239.13	233.27	240.97	3.64	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				98		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	12422.23	11701.52	11466.28	11863.35	4.20	ppb
Iron	56-2	12800.08	12168.45	11869.52	12279.35	3.87	ppb
Iron	57-2	12242.50	11561.58	11275.12	11693.07	4.25	ppb
Krypton	83-1						cps
Lead	206-1	516.06	537.75	530.22	528.01	2.09	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1102-01 Instrumnet Name : P8
Client Sample ID : MH2H28 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:27:55 DataFile Name : 077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	491.87	518.63	498.55	503.02	2.77	ppb
Lead	208-1	498.80	527.03	505.90	510.58	2.88	ppb
Lithium	6-1				98		%
Magnesium	24-2	7077.14	6755.05	6554.22	6795.47	3.88	ppb
Manganese	55-2	497.46	472.96	461.54	477.32	3.84	ppb
Molybdenum	94-1	18.97	20.90	19.18	19.68	5.38	ppb
Molybdenum	95-1	2.61	2.64	2.53	2.60	2.26	ppb
Molybdenum	96-1	4.42	4.57	4.29	4.42	3.16	ppb
Molybdenum	97-1	2.61	2.78	2.58	2.66	4.10	ppb
Molybdenum	98-1	2.51	2.64	2.60	2.59	2.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.28	22.55	21.64	22.49	3.66	ppb
Phosphorus	31-2	4351.84	3989.52	3989.25	4110.20	5.09	ppb
Potassium	39-2	8592.24	8255.47	8073.31	8307.01	3.17	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	3.45	3.66	4.50	3.87	14.32	ppb
Selenium	77-2	24.60	14.83	16.29	18.57	28.37	ppb
Selenium	78-2	5.15	5.86	4.68	5.23	11.33	ppb
Silicon	28-1	474.49	493.49	478.80	482.26	2.06	ppb
Silver	107-1	14.27	15.01	14.45	14.57	2.64	ppb
Silver	109-1	14.19	15.19	14.61	14.66	3.43	ppb
Sodium	23-2	53255.90	50232.52	49613.77	51034.06	3.82	ppb
Strontium	86-1	406.63	424.70	400.33	410.55	3.08	ppb
Strontium	88-1	398.73	423.38	404.78	408.96	3.14	ppb
Sulfur	34-1	35092.07	35973.44	34340.66	35135.39	2.33	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.30	0.45	0.51	0.42	25.76	ppb
Thallium	205-1	0.31	0.47	0.52	0.43	25.04	ppb
Tin	118-1	22.23	23.50	22.61	22.78	2.88	ppb
Titanium	47-1	162.69	169.80	164.77	165.75	2.21	ppb
Uranium	238-1	1.19	1.26	1.19	1.21	3.30	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1102-01 Instrumnet Name : P8
Client Sample ID : MH2H28 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:27:55 DataFile Name : 077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.62	18.70	18.38	18.90	3.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	3342.35	3156.31	3087.46	3195.37	4.13	ppb
Zirconium	90-1	8.98	9.86	9.38	9.41	4.71	ppb
Zirconium	91-1	9.50	9.63	9.24	9.46	2.12	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P8
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:31:17 DataFile Name : 078CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51961.74	48517.78	50389.25	50289.59	3.43	ppb
Antimony	121-1	497.27	507.34	493.96	499.52	1.40	ppb
Arsenic	75-2	509.58	483.20	507.61	500.13	2.94	ppb
Barium	135-1	2478.67	2534.96	2425.40	2479.68	2.21	ppb
Barium	137-1	2500.50	2541.71	2400.12	2480.78	2.94	ppb
Beryllium	9-1	495.26	508.35	502.84	502.15	1.31	ppb
Bismuth	209-1				80		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	487.82	493.02	469.82	483.55	2.52	ppb
Cadmium	106-1	484.43	484.07	476.37	481.62	0.95	ppb
Cadmium	111-1	455.43	466.99	445.67	456.03	2.34	ppb
Calcium	43-1	240215.95	249514.23	236970.42	242233.53	2.69	ppb
Calcium	44-1	241990.94	249388.78	241443.71	244274.48	1.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	486.37	462.53	485.14	478.01	2.81	ppb
Cobalt	59-2	516.51	477.97	499.92	498.13	3.88	ppb
Copper	63-2	4922.65	4635.06	4958.34	4838.68	3.66	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				89		%
Holmium	165-2				89		%
Indium	115-1				84		%
Indium	115-2				80		%
Iron	54-2	130239.47	123368.73	128530.07	127379.42	2.81	ppb
Iron	56-2	130141.99	121628.08	128102.36	126624.14	3.51	ppb
Iron	57-2	130174.07	121869.66	129434.62	127159.45	3.61	ppb
Krypton	83-1						cps
Lead	206-1	2534.79	2591.54	2505.10	2543.81	1.73	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P8
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:31:17 DataFile Name : 078CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2553.77	2593.73	2501.85	2549.78	1.81	ppb
Lead	208-1	2553.23	2601.87	2518.57	2557.89	1.64	ppb
Lithium	6-1				85		%
Magnesium	24-2	257223.13	243133.19	250374.18	250243.50	2.82	ppb
Manganese	55-2	5177.96	4918.98	5187.58	5094.84	2.99	ppb
Molybdenum	94-1	4902.33	5174.29	4913.04	4996.55	3.08	ppb
Molybdenum	95-1	4878.86	5169.10	4909.62	4985.86	3.20	ppb
Molybdenum	96-1	4940.39	5137.37	4925.07	5000.94	2.37	ppb
Molybdenum	97-1	4972.60	5107.05	4912.64	4997.43	1.99	ppb
Molybdenum	98-1	4958.19	5164.81	4923.05	5015.35	2.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.85	467.35	497.39	487.86	3.64	ppb
Phosphorus	31-2	9969.64	9465.27	10055.15	9830.02	3.24	ppb
Potassium	39-2	124818.62	116921.07	123528.53	121756.07	3.48	ppb
Rhodium	103-1				79		%
Rhodium	103-2				77		%
Scandium	45-1				88		%
Scandium	45-2				84		%
Selenium	82-1	474.50	490.14	476.78	480.48	1.76	ppb
Selenium	77-2	454.83	461.18	441.21	452.41	2.25	ppb
Selenium	78-2	522.84	486.09	526.57	511.83	4.37	ppb
Silicon	28-1	769.30	775.65	764.76	769.90	0.71	ppb
Silver	107-1	478.07	479.94	459.68	472.56	2.37	ppb
Silver	109-1	480.84	486.41	465.53	477.59	2.26	ppb
Sodium	23-2	254168.95	240334.44	249913.21	248138.87	2.86	ppb
Strontium	86-1	501.51	514.47	495.44	503.80	1.93	ppb
Strontium	88-1	497.69	509.03	485.41	497.37	2.37	ppb
Sulfur	34-1	11988.52	12467.75	12045.67	12167.31	2.15	ppb
Terbium	159-1				89		%
Terbium	159-2				87		%
Thallium	203-1	523.52	518.26	507.32	516.37	1.60	ppb
Thallium	205-1	511.80	519.02	502.70	511.17	1.60	ppb
Tin	118-1	496.62	506.32	485.68	496.20	2.08	ppb
Titanium	47-1	4974.96	5134.74	4999.73	5036.48	1.71	ppb
Uranium	238-1	512.04	528.05	511.90	517.33	1.79	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P8
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:31:17 DataFile Name : 078CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	497.15	471.57	495.89	488.21	2.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				85		%
Zinc	66-2	4726.91	4449.63	4703.84	4626.79	3.33	ppb
Zirconium	90-1	499.44	518.49	494.97	504.30	2.48	ppb
Zirconium	91-1	509.44	521.88	504.05	511.79	1.79	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P8
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:37:29 DataFile Name : 080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.45	-0.28	0.41	0.19	215.15	ppb
Antimony	121-1	0.03	0.03	0.02	0.03	15.99	ppb
Arsenic	75-2	0.00	-0.02	0.01	0.00		ppb
Barium	135-1	0.05	0.04	0.04	0.04	14.18	ppb
Barium	137-1	0.05	0.04	0.02	0.03	45.48	ppb
Beryllium	9-1	0.06	0.04	0.05	0.05	21.73	ppb
Bismuth	209-1				90		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.01	-0.01	0.00	295.08	ppb
Cadmium	106-1	-2.68	-1.93	-1.97	-2.19		ppb
Cadmium	111-1	-0.05	-0.03	-0.03	-0.04		ppb
Calcium	43-1	-0.17	-0.95	-0.95	-0.69		ppb
Calcium	44-1	-3.00	-3.54	-3.24	-3.26		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.04	-0.01	-0.02	-0.02		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	19.10	ppb
Copper	63-2	-0.03	-0.08	-0.05	-0.06		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				90		%
Holmium	165-2				93		%
Indium	115-1				91		%
Indium	115-2				89		%
Iron	54-2	0.19	1.01	0.96	0.72	63.46	ppb
Iron	56-2	0.50	0.67	0.47	0.55	19.29	ppb
Iron	57-2	0.59	1.18	0.23	0.66	72.16	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.05	0.07	20.90	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P8
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:37:29 DataFile Name : 080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.07	0.08	11.05	ppb
Lead	208-1	0.08	0.08	0.07	0.08	10.72	ppb
Lithium	6-1				95		%
Magnesium	24-2	-0.15	0.80	0.15	0.27	180.61	ppb
Manganese	55-2	0.12	0.11	0.16	0.13	22.91	ppb
Molybdenum	94-1	0.10	0.05	0.03	0.06	56.63	ppb
Molybdenum	95-1	0.05	0.03	0.03	0.03	36.78	ppb
Molybdenum	96-1	0.05	0.03	0.03	0.04	22.16	ppb
Molybdenum	97-1	0.04	0.02	0.03	0.03	24.57	ppb
Molybdenum	98-1	0.05	0.03	0.03	0.03	34.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.06	-0.08	-0.06	-0.07		ppb
Phosphorus	31-2	-20.84	-20.70	-23.83	-21.79		ppb
Potassium	39-2	1.15	2.27	-0.63	0.93	157.58	ppb
Rhodium	103-1				90		%
Rhodium	103-2				92		%
Scandium	45-1				90		%
Scandium	45-2				87		%
Selenium	82-1	0.21	0.03	0.13	0.12	72.35	ppb
Selenium	77-2	-0.36	-0.36	-0.36	-0.36		ppb
Selenium	78-2	-0.53	0.19	0.19	-0.05		ppb
Silicon	28-1	-0.11	-0.49	-0.53	-0.38		ppb
Silver	107-1	0.02	0.01	0.01	0.01	13.81	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.20	ppb
Sodium	23-2	6.06	5.86	7.11	6.35	10.60	ppb
Strontium	86-1	0.00	-0.02	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-409.63	-563.07	-593.49	-522.06		ppb
Terbium	159-1				90		%
Terbium	159-2				92		%
Thallium	203-1	0.03	0.03	0.03	0.03	3.32	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	11.66	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.02	0.01	0.00	0.01	100.22	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	4.41	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P8
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:37:29 DataFile Name : 080CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	82.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				89		%
Zinc	66-2	0.27	0.30	0.27	0.28	6.64	ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	73.39	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	120.47	ppb

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P8
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:47:03 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	77	67	100	81	21.09	cps
Antimony	121-1	63	67	80	70	12.60	cps
Arsenic	75-2	0	10	3	4	114.60	cps
Barium	135-1	390	330	403	374	10.43	cps
Barium	137-1	607	693	533	611	13.11	cps
Beryllium	9-1	205	190	187	194	4.88	cps
Bismuth	209-1	8984071	7553327	9822281	8786560	13.06	cps
Bismuth	209-2	3401555	3321310	3258213	3327026	2.16	cps
Bromine	81-1	5741	6001	5938	5894	2.30	cps
Cadmium	108-1	37	27	30	31	16.37	cps
Cadmium	106-1	7185	5868	7619	6891	13.23	cps
Cadmium	111-1	1425	1182	1519	1375	12.67	cps
Calcium	43-1	407	390	423	407	4.10	cps
Calcium	44-1	9687	9326	9670	9561	2.13	cps
Carbon	12-1	2802983	2763957	2769367	2778769	0.76	cps
Carbon	12-2	18722	18942	19156	18940	1.15	cps
Chlorine	35-1	63137	63930	64459	63842	1.04	cps
Chlorine	35-2	237	267	253	252	5.96	cps
Chromium	52-2	623	563	583	590	5.18	cps
Cobalt	59-2	100	127	90	106	17.96	cps
Copper	63-2	3207	3374	3097	3226	4.32	cps
Dysprosium	156-1	143	77	113	111	30.05	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	63	53	73	63	15.79	cps
Erbium	164-2	10	23	17	17	39.99	cps
Gadolinium	160-1	63	27	70	53	43.75	cps
Gadolinium	160-2	7	7	7	7	0.00	cps
Holmium	165-1	14498610	12136272	15616701	14083861	12.62	cps
Holmium	165-2	4792681	4641287	4737377	4723781	1.62	cps
Indium	115-1	11193700	9739364	12373781	11102282	11.89	cps
Indium	115-2	1074744	1067054	1066728	1069509	0.42	cps
Iron	54-2	363	253	270	296	20.06	cps
Iron	56-2	4661	4674	4641	4659	0.36	cps
Iron	57-2	123	137	123	128	6.03	cps
Krypton	83-1	133	177	143	151	15.01	cps
Lead	206-1	1137	1160	1087	1128	3.32	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P8
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:47:03 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1057	977	920	984	6.98	cps
Lead	208-1	4657	4520	4294	4490	4.09	cps
Lithium	6-1	6494095	5737232	7201306	6477544	11.30	cps
Magnesium	24-2	547	493	433	491	11.55	cps
Manganese	55-2	210	140	160	170	21.21	cps
Molybdenum	94-1	260	233	360	284	23.48	cps
Molybdenum	95-1	167	137	130	144	13.52	cps
Molybdenum	96-1	230	207	193	210	8.84	cps
Molybdenum	97-1	93	87	83	88	5.80	cps
Molybdenum	98-1	213	177	197	196	9.39	cps
Neodymium	150-1	23	17	7	16	53.90	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1020	1097	1153	1090	6.14	cps
Phosphorus	31-2	43	43	50	46	8.45	cps
Potassium	39-2	6738	6411	6812	6654	3.20	cps
Rhodium	103-1	10500948	8825555	11426678	10251060	12.86	cps
Rhodium	103-2	3899012	3783581	3849865	3844153	1.51	cps
Scandium	45-1	8653620	7199905	9269183	8374236	12.69	cps
Scandium	45-2	148296	145696	148401	147464	1.04	cps
Selenium	82-1	0	-70	0	-23	-173.21	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	0	10	6	91.64	cps
Silicon	28-1	402866	404585	400939	402797	0.45	cps
Silver	107-1	80	123	130	111	24.43	cps
Silver	109-1	60	50	57	56	9.17	cps
Sodium	23-2	18645	18862	19520	19009	2.40	cps
Strontium	86-1	253	330	247	277	16.74	cps
Strontium	88-1	577	560	623	587	5.60	cps
Sulfur	34-1	387298	388378	386020	387232	0.30	cps
Terbium	159-1	14586481	12364203	16175157	14375280	13.32	cps
Terbium	159-2	4599222	4495917	4618547	4571229	1.44	cps
Thallium	203-1	257	203	160	207	23.43	cps
Thallium	205-1	527	440	470	479	9.19	cps
Tin	118-1	1277	1283	1327	1296	2.10	cps
Titanium	47-1	107	123	110	113	7.78	cps
Uranium	238-1	60	20	53	44	48.22	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P8
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:47:03 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	17	10	11	45.82	cps
Ytterbium	172-1	73	73	100	82	18.73	cps
Ytterbium	172-2	20	17	40	26	49.38	cps
Ytterbium	176-1	2027	1817	2250	2031	10.67	cps
Ytterbium	176-2	317	277	333	309	9.43	cps
Yttrium	89-1	20810130	17392621	22701487	20301413	13.25	cps
Yttrium	89-2	1392429	1372783	1385557	1383590	0.72	cps
Zinc	66-2	257	290	230	259	11.61	cps
Zirconium	90-1	637	567	710	638	11.24	cps
Zirconium	91-1	163	90	163	139	30.49	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P8
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:53:49 DataFile Name : 006CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1043	1110	1123	1092	3.92	cps
Antimony	121-1	21928	21637	21868	21811	0.70	cps
Arsenic	75-2	200	237	217	218	8.43	cps
Barium	135-1	28320	28667	29335	28774	1.79	cps
Barium	137-1	49466	49423	48831	49240	0.72	cps
Beryllium	9-1	4530	4726	4635	4631	2.12	cps
Bismuth	209-1	8867351	8730910	8737418	8778560	0.88	cps
Bismuth	209-2	3303077	3386968	3377645	3355897	1.37	cps
Bromine	81-1	5668	5851	5544	5688	2.71	cps
Cadmium	108-1	280	273	237	263	8.86	cps
Cadmium	106-1	7349	7119	6928	7132	2.95	cps
Cadmium	111-1	4391	4333	4184	4302	2.48	cps
Calcium	43-1	22698	23292	23202	23064	1.39	cps
Calcium	44-1	375707	379512	378283	377834	0.51	cps
Carbon	12-1	2807509	2749082	2785060	2780551	1.06	cps
Carbon	12-2	18889	18909	18495	18764	1.24	cps
Chlorine	35-1	56296	57440	56041	56592	1.32	cps
Chlorine	35-2	187	233	223	214	11.46	cps
Chromium	52-2	5364	5331	5371	5355	0.40	cps
Cobalt	59-2	4948	4841	4854	4881	1.19	cps
Copper	63-2	10130	10214	10257	10200	0.63	cps
Dysprosium	156-1	133	110	110	118	11.44	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	43	73	57	58	26.01	cps
Erbium	164-2	33	27	30	30	11.10	cps
Gadolinium	160-1	60	57	40	52	20.52	cps
Gadolinium	160-2	13	0	3	6	124.93	cps
Holmium	165-1	13987151	14013341	13972421	13990971	0.15	cps
Holmium	165-2	4649673	4684714	4640530	4658306	0.50	cps
Indium	115-1	11235188	11138564	11040957	11138236	0.87	cps
Indium	115-2	1041244	1040523	1045213	1042327	0.24	cps
Iron	54-2	5431	5488	5428	5449	0.62	cps
Iron	56-2	99279	97550	99279	98703	1.01	cps
Iron	57-2	2444	2637	2310	2464	6.67	cps
Krypton	83-1	127	133	127	129	2.99	cps
Lead	206-1	10187	10067	10371	10209	1.50	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P8
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:53:49 DataFile Name : 006CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9343	9140	8853	9112	2.70	cps
Lead	208-1	40962	40695	41306	40988	0.75	cps
Lithium	6-1	6675867	6584376	6498717	6586320	1.35	cps
Magnesium	24-2	94627	95339	95876	95281	0.66	cps
Manganese	55-2	1180	1317	1203	1233	5.93	cps
Molybdenum	94-1	24084	24325	24178	24196	0.50	cps
Molybdenum	95-1	28937	28379	28706	28674	0.98	cps
Molybdenum	96-1	32298	32027	32588	32304	0.87	cps
Molybdenum	97-1	17962	17955	17912	17943	0.15	cps
Molybdenum	98-1	45785	45244	45655	45561	0.62	cps
Neodymium	150-1	23	30	27	27	12.51	cps
Neodymium	150-2	7	7	3	6	34.70	cps
Nickel	60-2	2224	2247	2260	2244	0.83	cps
Phosphorus	31-2	147	120	117	128	12.87	cps
Potassium	39-2	56972	57022	57300	57098	0.31	cps
Rhodium	103-1	10380303	10265948	10205782	10284011	0.86	cps
Rhodium	103-2	3740454	3799561	3744200	3761405	0.88	cps
Scandium	45-1	8446861	8509751	8350218	8435610	0.95	cps
Scandium	45-2	145858	144245	145497	145200	0.58	cps
Selenium	82-1	917	903	987	936	4.79	cps
Selenium	77-2	23	30	23	26	15.07	cps
Selenium	78-2	63	83	80	76	14.18	cps
Silicon	28-1	456911	456435	457544	456963	0.12	cps
Silver	107-1	14791	14298	14544	14544	1.70	cps
Silver	109-1	13940	13630	13887	13819	1.20	cps
Sodium	23-2	200431	201836	201121	201129	0.35	cps
Strontium	86-1	4504	4297	4444	4415	2.41	cps
Strontium	88-1	34553	34813	34569	34645	0.42	cps
Sulfur	34-1	384127	387798	384883	385603	0.50	cps
Terbium	159-1	14591522	14270342	14313298	14391721	1.21	cps
Terbium	159-2	4531447	4474128	4526939	4510838	0.71	cps
Thallium	203-1	11435	11605	11849	11630	1.79	cps
Thallium	205-1	27553	28301	28027	27960	1.35	cps
Tin	118-1	48820	49322	49041	49061	0.51	cps
Titanium	47-1	9510	9703	9600	9604	1.01	cps
Uranium	238-1	36512	36118	35987	36206	0.75	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P8
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:53:49 DataFile Name : 006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9500	9427	9113	9346	2.20	cps
Ytterbium	172-1	90	70	120	93	26.96	cps
Ytterbium	172-2	7	27	13	16	65.47	cps
Ytterbium	176-1	2134	1940	1913	1996	6.02	cps
Ytterbium	176-2	300	283	277	287	4.19	cps
Yttrium	89-1	20518031	20213284	20094833	20275382	1.08	cps
Yttrium	89-2	1341779	1352632	1354999	1349803	0.52	cps
Zinc	66-2	2077	2150	1853	2027	7.63	cps
Zirconium	90-1	20352	20872	20485	20570	1.31	cps
Zirconium	91-1	4611	4567	4561	4580	0.59	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P8
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:57:11 DataFile Name : 007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	57118	57044	57911	57358	0.84	cps
Antimony	121-1	590516	599513	602378	597469	1.04	cps
Arsenic	75-2	11371	10531	11148	11017	3.95	cps
Barium	135-1	749616	758178	758325	755373	0.66	cps
Barium	137-1	1295048	1321135	1321360	1312514	1.15	cps
Beryllium	9-1	238306	239805	240251	239454	0.43	cps
Bismuth	209-1	8632581	8702375	8709880	8681612	0.49	cps
Bismuth	209-2	3294956	3260500	3374392	3309949	1.76	cps
Bromine	81-1	5454	5831	5541	5609	3.52	cps
Cadmium	108-1	12753	12756	13100	12869	1.55	cps
Cadmium	106-1	25136	24899	24959	24998	0.49	cps
Cadmium	111-1	154405	154443	155250	154699	0.31	cps
Calcium	43-1	240779	246228	243161	243389	1.12	cps
Calcium	44-1	3980136	4017540	3988571	3995416	0.49	cps
Carbon	12-1	2920796	2892928	2902707	2905477	0.49	cps
Carbon	12-2	20094	20571	20768	20478	1.69	cps
Chlorine	35-1	69285	70507	71328	70373	1.46	cps
Chlorine	35-2	277	303	273	284	5.78	cps
Chromium	52-2	133152	131793	132177	132374	0.53	cps
Cobalt	59-2	244727	244976	244993	244899	0.06	cps
Copper	63-2	1896865	1876483	1907901	1893750	0.84	cps
Dysprosium	156-1	113	100	110	108	6.44	cps
Dysprosium	156-2	13	10	7	10	33.30	cps
Erbium	164-1	70	107	83	87	21.42	cps
Erbium	164-2	30	33	27	30	11.10	cps
Gadolinium	160-1	43	53	60	52	16.07	cps
Gadolinium	160-2	10	7	20	12	56.76	cps
Holmium	165-1	13824061	14095126	14237187	14052125	1.49	cps
Holmium	165-2	4645776	4662862	4777257	4695298	1.52	cps
Indium	115-1	10918119	11043308	11107672	11023033	0.87	cps
Indium	115-2	1043387	1056672	1055270	1051776	0.69	cps
Iron	54-2	270984	272038	273305	272109	0.43	cps
Iron	56-2	5102536	5066307	5031686	5066843	0.70	cps
Iron	57-2	123031	123288	124017	123445	0.41	cps
Krypton	83-1	153	140	130	141	8.30	cps
Lead	206-1	2591235	2624426	2599675	2605112	0.66	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P8
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:57:11 DataFile Name : 007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2268512	2255458	2266076	2263349	0.31	cps
Lead	208-1	10290663	10354340	10449926	10364976	0.77	cps
Lithium	6-1	6613423	6595842	6494471	6567912	0.98	cps
Magnesium	24-2	1010005	1003302	1011679	1008329	0.44	cps
Manganese	55-2	564966	567501	564098	565521	0.31	cps
Molybdenum	94-1	2238436	2252994	2300890	2264107	1.44	cps
Molybdenum	95-1	3190685	3250458	3249052	3230065	1.06	cps
Molybdenum	96-1	3470282	3563270	3526012	3519855	1.33	cps
Molybdenum	97-1	1982139	1987716	2008885	1992913	0.71	cps
Molybdenum	98-1	5121934	5184166	5140358	5148819	0.62	cps
Neodymium	150-1	90	103	77	90	14.81	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	68886	68641	67606	68378	0.99	cps
Phosphorus	31-2	2507	2657	2540	2568	3.07	cps
Potassium	39-2	280499	277872	277474	278615	0.59	cps
Rhodium	103-1	9968193	10001491	10200099	10056594	1.25	cps
Rhodium	103-2	3751936	3761528	3862169	3791878	1.61	cps
Scandium	45-1	8301461	8412995	8415718	8376725	0.78	cps
Scandium	45-2	145864	144872	146201	145646	0.47	cps
Selenium	82-1	10191	10060	9860	10037	1.66	cps
Selenium	77-2	153	173	177	168	7.52	cps
Selenium	78-2	610	630	573	604	4.75	cps
Silicon	28-1	2817673	2909944	2828107	2851908	1.77	cps
Silver	107-1	803581	814306	820738	812875	1.07	cps
Silver	109-1	760700	768158	784624	771161	1.59	cps
Sodium	23-2	2059213	2048796	2064801	2057603	0.39	cps
Strontium	86-1	221791	224090	226118	224000	0.97	cps
Strontium	88-1	1999844	2006155	1987848	1997949	0.47	cps
Sulfur	34-1	452803	453823	453869	453498	0.13	cps
Terbium	159-1	14183560	14445991	14413697	14347750	1.00	cps
Terbium	159-2	4484730	4613802	4504293	4534275	1.53	cps
Thallium	203-1	627646	635013	641716	634792	1.11	cps
Thallium	205-1	1490641	1518913	1504283	1504612	0.94	cps
Tin	118-1	516846	524758	522764	521456	0.79	cps
Titanium	47-1	1006901	1019898	1020961	1015920	0.77	cps
Uranium	238-1	2056593	2050237	2070353	2059061	0.50	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P8
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 09:57:11 DataFile Name : 007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	102181	100576	102822	101860	1.14	cps
Ytterbium	172-1	110	57	100	89	31.89	cps
Ytterbium	172-2	23	53	27	34	47.73	cps
Ytterbium	176-1	4638	4491	4654	4594	1.96	cps
Ytterbium	176-2	1153	1220	1343	1239	7.78	cps
Yttrium	89-1	20077909	20250323	20520120	20282784	1.10	cps
Yttrium	89-2	1350446	1366281	1373238	1363322	0.86	cps
Zinc	66-2	193711	192857	192465	193011	0.33	cps
Zirconium	90-1	1060732	1078660	1089068	1076153	1.33	cps
Zirconium	91-1	236104	239014	241754	238957	1.18	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P8
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:00:22 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143041	143469	143917	143476	0.31	cps
Antimony	121-1	1466885	1482219	1552974	1500693	3.06	cps
Arsenic	75-2	27310	27363	27741	27471	0.85	cps
Barium	135-1	1972655	1987121	1946500	1968759	1.05	cps
Barium	137-1	3369346	3427359	3330375	3375693	1.45	cps
Beryllium	9-1	585939	585982	585401	585774	0.06	cps
Bismuth	209-1	8781374	8682048	8892583	8785335	1.20	cps
Bismuth	209-2	3144814	3233417	3283838	3220690	2.19	cps
Bromine	81-1	5665	5801	5601	5689	1.80	cps
Cadmium	108-1	31610	32435	32699	32248	1.76	cps
Cadmium	106-1	50512	51037	51476	51008	0.95	cps
Cadmium	111-1	373761	375469	376977	375402	0.43	cps
Calcium	43-1	599905	603782	606785	603491	0.57	cps
Calcium	44-1	9852868	9919326	9916054	9896083	0.38	cps
Carbon	12-1	2944021	2962795	3035296	2980704	1.62	cps
Carbon	12-2	20615	20334	21125	20691	1.94	cps
Chlorine	35-1	73278	74403	74842	74174	1.09	cps
Chlorine	35-2	323	307	360	330	8.27	cps
Chromium	52-2	324183	325040	329754	326326	0.92	cps
Cobalt	59-2	610054	605200	609707	608321	0.45	cps
Copper	63-2	4700179	4695609	4754217	4716668	0.69	cps
Dysprosium	156-1	120	173	143	146	18.37	cps
Dysprosium	156-2	17	10	23	17	39.99	cps
Erbium	164-1	107	97	113	106	7.95	cps
Erbium	164-2	40	53	37	43	20.34	cps
Gadolinium	160-1	77	43	60	60	27.78	cps
Gadolinium	160-2	13	20	13	16	24.76	cps
Holmium	165-1	14153769	14420352	14256526	14276882	0.94	cps
Holmium	165-2	4488010	4551220	4809656	4616295	3.69	cps
Indium	115-1	11153478	11048112	11137463	11113018	0.51	cps
Indium	115-2	995955	1028712	1062959	1029209	3.26	cps
Iron	54-2	673705	672361	675382	673816	0.22	cps
Iron	56-2	12564254	12617691	12598301	12593415	0.21	cps
Iron	57-2	308417	305137	310603	308052	0.89	cps
Krypton	83-1	117	120	170	136	22.04	cps
Lead	206-1	6346488	6315818	6403617	6355308	0.70	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P8
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:00:22 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5616723	5582818	5614622	5604721	0.34	cps
Lead	208-1	25567289	25489580	25811177	25622682	0.65	cps
Lithium	6-1	6624378	6415103	6428490	6489324	1.81	cps
Magnesium	24-2	2586060	2595147	2538995	2573401	1.17	cps
Manganese	55-2	1520885	1491204	1476849	1496313	1.50	cps
Molybdenum	94-1	5528388	5533338	5611433	5557720	0.84	cps
Molybdenum	95-1	8130252	8053106	7955986	8046448	1.09	cps
Molybdenum	96-1	8661887	8758198	8714919	8711668	0.55	cps
Molybdenum	97-1	4926725	4900868	4951558	4926384	0.51	cps
Molybdenum	98-1	12761514	12929653	13000215	12897127	0.95	cps
Neodymium	150-1	180	207	233	207	12.90	cps
Neodymium	150-2	20	7	20	16	49.47	cps
Nickel	60-2	165217	165574	168619	166470	1.12	cps
Phosphorus	31-2	6485	6448	6442	6458	0.36	cps
Potassium	39-2	685214	680470	692642	686109	0.89	cps
Rhodium	103-1	10209953	10029298	10139759	10126337	0.90	cps
Rhodium	103-2	3596616	3639796	3813494	3683302	3.12	cps
Scandium	45-1	8737323	8532823	8555981	8608709	1.30	cps
Scandium	45-2	138650	144267	149267	144061	3.69	cps
Selenium	82-1	24879	25343	25874	25365	1.96	cps
Selenium	77-2	463	433	453	450	3.40	cps
Selenium	78-2	1437	1477	1523	1479	2.93	cps
Silicon	28-1	6388489	6380549	6395262	6388100	0.12	cps
Silver	107-1	2105592	2091763	2117216	2104857	0.61	cps
Silver	109-1	2006719	2016655	2058212	2027196	1.35	cps
Sodium	23-2	5055477	4963187	5049586	5022750	1.03	cps
Strontium	86-1	553269	559467	559166	557301	0.63	cps
Strontium	88-1	4898506	4990571	4923320	4937466	0.96	cps
Sulfur	34-1	565431	563182	562691	563768	0.26	cps
Terbium	159-1	14671396	14434368	14676763	14594176	0.95	cps
Terbium	159-2	4346972	4507778	4637453	4497401	3.24	cps
Thallium	203-1	1543977	1570706	1579288	1564657	1.18	cps
Thallium	205-1	3912195	3921611	3866848	3900218	0.75	cps
Tin	118-1	1277560	1290853	1298068	1288827	0.81	cps
Titanium	47-1	2574568	2660101	2584606	2606425	1.79	cps
Uranium	238-1	5026996	5126206	5076288	5076496	0.98	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P8
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:00:22 DataFile Name : 008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	254299	254818	255472	254863	0.23	cps
Ytterbium	172-1	83	83	87	84	2.28	cps
Ytterbium	172-2	20	33	57	37	50.62	cps
Ytterbium	176-1	9050	8840	9283	9058	2.45	cps
Ytterbium	176-2	2414	2610	2630	2551	4.69	cps
Yttrium	89-1	20774736	20491732	20680626	20649031	0.70	cps
Yttrium	89-2	1362801	1344096	1436951	1381283	3.56	cps
Zinc	66-2	478888	479666	480853	479803	0.21	cps
Zirconium	90-1	2786283	2802284	2797669	2795412	0.29	cps
Zirconium	91-1	591311	597659	600564	596511	0.79	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P8
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:03:22 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	280636	284635	280739	282003	0.81	cps
Antimony	121-1	3101821	3154918	3101501	3119413	0.99	cps
Arsenic	75-2	55525	55305	55107	55312	0.38	cps
Barium	135-1	3981776	3934862	3912274	3942971	0.90	cps
Barium	137-1	6815054	6786012	6703948	6768338	0.85	cps
Beryllium	9-1	1180602	1210258	1187811	1192890	1.30	cps
Bismuth	209-1	8693267	8798788	8663149	8718401	0.82	cps
Bismuth	209-2	3240986	3298109	3254981	3264692	0.91	cps
Bromine	81-1	6101	5808	5938	5949	2.47	cps
Cadmium	108-1	63626	63378	63918	63640	0.42	cps
Cadmium	106-1	93913	95168	96481	95187	1.35	cps
Cadmium	111-1	739174	754681	750607	748154	1.07	cps
Calcium	43-1	1226277	1210891	1267682	1234950	2.38	cps
Calcium	44-1	19788075	19827496	19960229	19858600	0.45	cps
Carbon	12-1	3009750	3056878	3090576	3052401	1.33	cps
Carbon	12-2	21439	21366	21663	21489	0.72	cps
Chlorine	35-1	78582	80076	81182	79947	1.63	cps
Chlorine	35-2	307	290	323	307	5.43	cps
Chromium	52-2	655473	646514	650165	650717	0.69	cps
Cobalt	59-2	1205459	1206844	1208121	1206808	0.11	cps
Copper	63-2	9397752	9277582	9241875	9305737	0.88	cps
Dysprosium	156-1	200	183	170	184	8.15	cps
Dysprosium	156-2	7	17	10	11	45.82	cps
Erbium	164-1	110	107	137	118	13.96	cps
Erbium	164-2	40	40	33	38	10.19	cps
Gadolinium	160-1	83	37	57	59	39.75	cps
Gadolinium	160-2	20	10	13	14	35.26	cps
Holmium	165-1	14425788	14313572	14177516	14305625	0.87	cps
Holmium	165-2	4718166	4705864	4705938	4709989	0.15	cps
Indium	115-1	11113729	11134423	11037507	11095219	0.46	cps
Indium	115-2	1044625	1044155	1033310	1040697	0.62	cps
Iron	54-2	1390644	1339665	1335128	1355146	2.27	cps
Iron	56-2	24863492	24758291	25015310	24879031	0.52	cps
Iron	57-2	607263	605725	609852	607614	0.34	cps
Krypton	83-1	173	150	157	160	7.51	cps
Lead	206-1	12732046	12642613	12736551	12703736	0.42	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P8
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:03:22 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10957115	10944919	11081022	10994352	0.68	cps
Lead	208-1	50678052	50650544	51141096	50823230	0.54	cps
Lithium	6-1	6415177	6448950	6333754	6399293	0.93	cps
Magnesium	24-2	5039490	5060097	5021023	5040203	0.39	cps
Manganese	55-2	2979551	2966802	2956264	2967539	0.39	cps
Molybdenum	94-1	11108296	11085731	11182282	11125436	0.45	cps
Molybdenum	95-1	16159867	16244850	16214292	16206336	0.27	cps
Molybdenum	96-1	17393025	17845912	17560382	17599773	1.30	cps
Molybdenum	97-1	9735720	9882183	9807278	9808394	0.75	cps
Molybdenum	98-1	25805191	25863003	25791170	25819788	0.15	cps
Neodymium	150-1	420	383	483	429	11.80	cps
Neodymium	150-2	17	10	7	11	45.82	cps
Nickel	60-2	326445	327343	327928	327239	0.23	cps
Phosphorus	31-2	12525	12816	12252	12531	2.25	cps
Potassium	39-2	1411586	1421489	1398656	1410577	0.81	cps
Rhodium	103-1	10127802	10016715	9919844	10021454	1.04	cps
Rhodium	103-2	3764311	3720239	3699288	3727946	0.89	cps
Scandium	45-1	8544332	8534241	8425879	8501484	0.77	cps
Scandium	45-2	146844	147794	145848	146829	0.66	cps
Selenium	82-1	49481	50046	50140	49889	0.71	cps
Selenium	77-2	837	737	837	803	7.19	cps
Selenium	78-2	2514	2900	2580	2665	7.76	cps
Silicon	28-1	12531872	12451332	12562828	12515344	0.46	cps
Silver	107-1	4188577	4211535	4198978	4199697	0.27	cps
Silver	109-1	3943149	4022995	3974596	3980247	1.01	cps
Sodium	23-2	10072039	10028767	9951928	10017578	0.61	cps
Strontium	86-1	1107349	1121819	1120696	1116622	0.72	cps
Strontium	88-1	9840416	9922135	9896854	9886468	0.42	cps
Sulfur	34-1	755801	760039	756566	757469	0.30	cps
Terbium	159-1	14595511	14775059	14680988	14683853	0.61	cps
Terbium	159-2	4539056	4607981	4463817	4536952	1.59	cps
Thallium	203-1	3247439	3266516	3317941	3277299	1.11	cps
Thallium	205-1	7654733	7719592	7690839	7688388	0.42	cps
Tin	118-1	2679318	2718877	2718948	2705714	0.84	cps
Titanium	47-1	5141165	5155377	5189676	5162073	0.48	cps
Uranium	238-1	9976644	10141577	10238489	10118903	1.31	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P8
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:03:22 DataFile Name : 009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	508088	508357	508827	508424	0.07	cps
Ytterbium	172-1	143	100	120	121	17.91	cps
Ytterbium	172-2	57	37	30	41	33.76	cps
Ytterbium	176-1	15776	16257	16223	16085	1.67	cps
Ytterbium	176-2	4984	5158	4824	4989	3.34	cps
Yttrium	89-1	20624986	20759111	20610693	20664930	0.40	cps
Yttrium	89-2	1386016	1376542	1357013	1373190	1.08	cps
Zinc	66-2	947939	947177	945330	946815	0.14	cps
Zirconium	90-1	5573017	5675679	5589870	5612855	0.98	cps
Zirconium	91-1	1188491	1189731	1202083	1193435	0.63	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P8
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:06:18 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	560053	556358	559352	558588	0.35	cps
Antimony	121-1	6070133	6169274	6149797	6129735	0.86	cps
Arsenic	75-2	110660	109125	109329	109705	0.76	cps
Barium	135-1	7805204	7839714	7851115	7832011	0.31	cps
Barium	137-1	13446975	13521525	13397843	13455448	0.46	cps
Beryllium	9-1	2301786	2286586	2326791	2305054	0.88	cps
Bismuth	209-1	8636939	8666471	8468172	8590527	1.25	cps
Bismuth	209-2	3141187	3197739	3207812	3182246	1.13	cps
Bromine	81-1	5818	5935	6402	6051	5.10	cps
Cadmium	108-1	124731	123494	124711	124312	0.57	cps
Cadmium	106-1	180725	184310	179852	181629	1.30	cps
Cadmium	111-1	1503325	1465511	1460621	1476486	1.58	cps
Calcium	43-1	2414875	2497190	2489675	2467247	1.84	cps
Calcium	44-1	39477451	39841602	39818824	39712626	0.51	cps
Carbon	12-1	3090642	3124399	3173765	3129602	1.34	cps
Carbon	12-2	23135	22317	22421	22624	1.97	cps
Chlorine	35-1	86215	88756	91047	88673	2.73	cps
Chlorine	35-2	467	377	417	420	10.74	cps
Chromium	52-2	1389333	1294258	1290442	1324678	4.23	cps
Cobalt	59-2	2468983	2480464	2494306	2481251	0.51	cps
Copper	63-2	18395935	18302923	18082393	18260417	0.88	cps
Dysprosium	156-1	280	247	280	269	7.16	cps
Dysprosium	156-2	17	10	13	13	25.01	cps
Erbium	164-1	200	150	143	164	18.83	cps
Erbium	164-2	70	57	50	59	17.29	cps
Gadolinium	160-1	113	133	120	122	8.33	cps
Gadolinium	160-2	23	23	13	20	28.87	cps
Holmium	165-1	14436036	14561991	14272964	14423664	1.00	cps
Holmium	165-2	4674259	4677880	4758268	4703469	1.01	cps
Indium	115-1	11060232	10958490	10793310	10937344	1.23	cps
Indium	115-2	1010718	1031221	1025838	1022593	1.04	cps
Iron	54-2	2753193	2758645	2748677	2753505	0.18	cps
Iron	56-2	49800083	49486681	49232654	49506473	0.57	cps
Iron	57-2	1204626	1202799	1202301	1203242	0.10	cps
Krypton	83-1	177	150	120	149	19.04	cps
Lead	206-1	25106638	25048426	25080610	25078558	0.12	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P8
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:06:18 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	21534592	21833215	21897405	21755071	0.89	cps
Lead	208-1	99776949	99786452	100444678	100002693	0.38	cps
Lithium	6-1	6398911	6352899	6242211	6331340	1.27	cps
Magnesium	24-2	10018188	9997644	9972500	9996111	0.23	cps
Manganese	55-2	5865084	5786801	5835588	5829157	0.68	cps
Molybdenum	94-1	22142410	22216155	22366343	22241636	0.51	cps
Molybdenum	95-1	32174310	32214434	32647330	32345358	0.81	cps
Molybdenum	96-1	35185788	35060608	35375995	35207464	0.45	cps
Molybdenum	97-1	19636561	19619481	19546851	19600964	0.24	cps
Molybdenum	98-1	51887441	51417963	51555211	51620205	0.47	cps
Neodymium	150-1	780	783	717	760	4.94	cps
Neodymium	150-2	33	20	43	32	36.33	cps
Nickel	60-2	643206	642680	642326	642737	0.07	cps
Phosphorus	31-2	24985	24447	25416	24949	1.94	cps
Potassium	39-2	2831831	2800247	2830952	2821010	0.64	cps
Rhodium	103-1	9988162	10144990	9828657	9987269	1.58	cps
Rhodium	103-2	3601377	3707952	3680507	3663279	1.51	cps
Scandium	45-1	8626042	8767891	8474846	8622926	1.70	cps
Scandium	45-2	146111	146955	149437	147501	1.17	cps
Selenium	82-1	98655	99098	99339	99031	0.35	cps
Selenium	77-2	1713	1553	1573	1613	5.40	cps
Selenium	78-2	5511	5428	5401	5447	1.05	cps
Silicon	28-1	22657041	22617344	22460260	22578215	0.46	cps
Silver	107-1	8155699	8191579	8094943	8147407	0.60	cps
Silver	109-1	7644995	7770709	7796037	7737247	1.05	cps
Sodium	23-2	19945196	19852991	19984847	19927678	0.34	cps
Strontium	86-1	2344394	2348529	2301098	2331340	1.13	cps
Strontium	88-1	19693048	19571294	19590686	19618342	0.33	cps
Sulfur	34-1	1016189	1006905	1001883	1008326	0.72	cps
Terbium	159-1	14796528	15021244	14592049	14803273	1.45	cps
Terbium	159-2	4479730	4520060	4527742	4509177	0.57	cps
Thallium	203-1	6468804	6454242	6415991	6446345	0.42	cps
Thallium	205-1	15230930	15147181	15093411	15157174	0.46	cps
Tin	118-1	5247043	5318599	5245037	5270226	0.80	cps
Titanium	47-1	10336733	10392294	10385369	10371465	0.29	cps
Uranium	238-1	20323386	20236616	20402120	20320707	0.41	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P8
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:06:18 DataFile Name : 010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1015628	1020003	1018264	1017965	0.22	cps
Ytterbium	172-1	143	153	150	149	3.42	cps
Ytterbium	172-2	40	67	53	53	25.00	cps
Ytterbium	176-1	29346	29229	29907	29494	1.23	cps
Ytterbium	176-2	9527	9157	9353	9346	1.98	cps
Yttrium	89-1	21140912	20741546	20522883	20801780	1.51	cps
Yttrium	89-2	1366633	1389804	1424800	1393746	2.10	cps
Zinc	66-2	1950464	1959117	1974139	1961240	0.61	cps
Zirconium	90-1	11123407	11063119	11214443	11133657	0.68	cps
Zirconium	91-1	2496028	2522995	2545744	2521589	0.99	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P8
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:09:07 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1051593	1059724	1067075	1059464	0.73	cps
Antimony	121-1	11794492	11850361	11937152	11860668	0.61	cps
Arsenic	75-2	207609	210877	212116	210201	1.11	cps
Barium	135-1	15273670	15224676	15337867	15278738	0.37	cps
Barium	137-1	26383185	26416579	26151221	26316995	0.55	cps
Beryllium	9-1	4250622	4330732	4321844	4301066	1.02	cps
Bismuth	209-1	8303254	8427636	8431017	8387302	0.87	cps
Bismuth	209-2	3047775	3100838	3053274	3067296	0.95	cps
Bromine	81-1	6325	6145	6418	6296	2.21	cps
Cadmium	108-1	237953	240512	240867	239777	0.66	cps
Cadmium	106-1	339075	343599	340826	341167	0.67	cps
Cadmium	111-1	2914202	2964434	2991237	2956624	1.32	cps
Calcium	43-1	4744990	4784101	4843383	4790825	1.03	cps
Calcium	44-1	76576486	77874522	77041301	77164103	0.85	cps
Carbon	12-1	3142512	3233993	3252337	3209614	1.83	cps
Carbon	12-2	24644	24647	24437	24576	0.49	cps
Chlorine	35-1	92527	96220	97465	95404	2.69	cps
Chlorine	35-2	443	427	527	466	11.51	cps
Chromium	52-2	2575037	2616686	2592459	2594727	0.81	cps
Cobalt	59-2	4664274	4664489	4657121	4661961	0.09	cps
Copper	63-2	33349683	33622186	33799621	33590497	0.67	cps
Dysprosium	156-1	420	497	403	440	11.31	cps
Dysprosium	156-2	40	40	33	38	10.19	cps
Erbium	164-1	220	233	203	219	6.87	cps
Erbium	164-2	93	70	63	76	20.85	cps
Gadolinium	160-1	160	190	197	182	10.72	cps
Gadolinium	160-2	40	53	43	46	15.23	cps
Holmium	165-1	14418736	14367679	14560284	14448899	0.69	cps
Holmium	165-2	4667498	4710131	4595348	4657659	1.25	cps
Indium	115-1	10787613	10702795	10833924	10774777	0.62	cps
Indium	115-2	975462	1003795	991446	990234	1.43	cps
Iron	54-2	5186900	5192510	5206900	5195437	0.20	cps
Iron	56-2	93652632	93447645	93959405	93686561	0.27	cps
Iron	57-2	2386790	2365435	2422628	2391618	1.21	cps
Krypton	83-1	170	230	223	208	15.83	cps
Lead	206-1	48129248	48626253	48479298	48411599	0.53	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P8
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:09:07 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	42165497	41615218	42237473	42006062	0.81	cps
Lead	208-1	192872863	192820955	192774125	192822648	0.03	cps
Lithium	6-1	6184670	6232508	6169740	6195639	0.53	cps
Magnesium	24-2	18726645	19213864	19114254	19018254	1.35	cps
Manganese	55-2	10896294	10979332	11068832	10981486	0.79	cps
Molybdenum	94-1	43352161	43852124	43972914	43725733	0.75	cps
Molybdenum	95-1	62787854	63379676	63603909	63257146	0.67	cps
Molybdenum	96-1	67510457	68718537	69194751	68474582	1.27	cps
Molybdenum	97-1	38238519	38765359	38988338	38664072	1.00	cps
Molybdenum	98-1	101168658	101967608	101679222	101605163	0.40	cps
Neodymium	150-1	1433	1483	1503	1473	2.45	cps
Neodymium	150-2	53	47	57	52	9.75	cps
Nickel	60-2	1171403	1186830	1197344	1185192	1.10	cps
Phosphorus	31-2	45969	47561	47879	47136	2.17	cps
Potassium	39-2	5241296	5377445	5440095	5352945	1.90	cps
Rhodium	103-1	9620195	9807315	9739015	9722175	0.97	cps
Rhodium	103-2	3548869	3609078	3483111	3547019	1.78	cps
Scandium	45-1	8586647	8704089	8572668	8621135	0.84	cps
Scandium	45-2	146110	149410	147707	147742	1.12	cps
Selenium	82-1	187640	188969	190864	189158	0.86	cps
Selenium	77-2	3184	3057	2977	3073	3.39	cps
Selenium	78-2	10077	10617	10804	10500	3.60	cps
Silicon	28-1	49421941	49838343	48675196	49311826	1.20	cps
Silver	107-1	15526963	15448788	15418228	15464660	0.36	cps
Silver	109-1	14463343	14694778	14761641	14639921	1.07	cps
Sodium	23-2	37676629	38324972	37756981	37919527	0.93	cps
Strontium	86-1	4483566	4554265	4512198	4516677	0.79	cps
Strontium	88-1	38284510	38329434	38671227	38428390	0.55	cps
Sulfur	34-1	1608261	1595747	1578464	1594157	0.94	cps
Terbium	159-1	14702493	14698123	14827408	14742675	0.50	cps
Terbium	159-2	4463617	4578546	4544823	4528995	1.30	cps
Thallium	203-1	12268746	12388640	12304045	12320477	0.50	cps
Thallium	205-1	29216910	29689717	29491111	29465913	0.81	cps
Tin	118-1	10151992	10192135	10206067	10183398	0.28	cps
Titanium	47-1	19949236	20285560	20219822	20151540	0.88	cps
Uranium	238-1	39279727	39681695	39095039	39352154	0.76	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P8
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:09:07 DataFile Name : 011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2006711	2044043	2064400	2038385	1.44	cps
Ytterbium	172-1	253	263	243	253	3.95	cps
Ytterbium	172-2	103	97	80	93	12.88	cps
Ytterbium	176-1	56125	56095	57799	56673	1.72	cps
Ytterbium	176-2	17886	18493	18470	18283	1.88	cps
Yttrium	89-1	20787169	20901756	20901181	20863369	0.32	cps
Yttrium	89-2	1340836	1424089	1410659	1391861	3.21	cps
Zinc	66-2	3605103	3634650	3682671	3640808	1.08	cps
Zirconium	90-1	22030282	22292888	22069295	22130822	0.64	cps
Zirconium	91-1	4916198	4920884	4875272	4904118	0.51	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P8
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:11:54 DataFile Name : 012CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4620960	4546484	4554796	4574080	0.89	cps
Antimony	121-1	3914	3310	3290	3505	10.11	cps
Arsenic	75-2	113	83	83	93	18.56	cps
Barium	135-1	7242	6368	6232	6614	8.29	cps
Barium	137-1	12346	11535	10231	11370	9.39	cps
Beryllium	9-1	1225	1101	1059	1128	7.65	cps
Bismuth	209-1	6956865	6793003	6550005	6766624	3.03	cps
Bismuth	209-2	2511977	2424126	2435316	2457140	1.95	cps
Bromine	81-1	6291	6105	5858	6085	3.57	cps
Cadmium	108-1	183	163	143	163	12.24	cps
Cadmium	106-1	5755	5681	5801	5746	1.05	cps
Cadmium	111-1	1939	1812	1803	1852	4.11	cps
Calcium	43-1	20598681	20079325	19280838	19986282	3.32	cps
Calcium	44-1	332043715	322678009	313173029	322631584	2.92	cps
Carbon	12-1	2642147	2600214	2582225	2608196	1.18	cps
Carbon	12-2	22631	22981	22591	22734	0.95	cps
Chlorine	35-1	58973	58411	58210	58531	0.68	cps
Chlorine	35-2	280	300	267	282	5.95	cps
Chromium	52-2	4124	3347	5444	4305	24.62	cps
Cobalt	59-2	8022	8002	7489	7838	3.86	cps
Copper	63-2	7419	7572	7575	7522	1.19	cps
Dysprosium	156-1	563	450	573	529	12.95	cps
Dysprosium	156-2	93	140	93	109	24.75	cps
Erbium	164-1	550	567	507	541	5.72	cps
Erbium	164-2	173	160	167	167	4.00	cps
Gadolinium	160-1	417	430	457	434	4.69	cps
Gadolinium	160-2	137	177	143	152	14.08	cps
Holmium	165-1	12857949	12322284	12061486	12413906	3.27	cps
Holmium	165-2	4057529	3999510	4046852	4034630	0.77	cps
Indium	115-1	9346059	8922567	8702008	8990211	3.64	cps
Indium	115-2	848055	827494	844386	839978	1.31	cps
Iron	54-2	20781594	20684828	20351174	20605866	1.10	cps
Iron	56-2	384044688	379475568	375323501	379614585	1.15	cps
Iron	57-2	9654755	9758487	9534689	9649310	1.16	cps
Krypton	83-1	240	273	237	250	8.11	cps
Lead	206-1	9330	8760	8016	8702	7.57	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P8
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:11:54 DataFile Name : 012CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8009	7859	6665	7511	9.81	cps
Lead	208-1	36597	35279	31909	34595	6.99	cps
Lithium	6-1	5119947	5132644	5126833	5126475	0.12	cps
Magnesium	24-2	77052957	76645262	76584029	76760749	0.33	cps
Manganese	55-2	4264	4041	3707	4004	7.00	cps
Molybdenum	94-1	11125	10547	9657	10443	7.08	cps
Molybdenum	95-1	11155	9944	9580	10226	8.06	cps
Molybdenum	96-1	15148	14394	13447	14330	5.95	cps
Molybdenum	97-1	5995	5384	5158	5512	7.85	cps
Molybdenum	98-1	14271	13830	12546	13549	6.62	cps
Neodymium	150-1	320	327	323	323	1.03	cps
Neodymium	150-2	67	53	50	57	15.57	cps
Nickel	60-2	3117	3010	3020	3049	1.93	cps
Phosphorus	31-2	67	53	37	52	28.78	cps
Potassium	39-2	22678899	22326373	22512967	22506080	0.78	cps
Rhodium	103-1	8005663	7608482	7502070	7705405	3.44	cps
Rhodium	103-2	2823815	2752159	2814014	2796662	1.39	cps
Scandium	45-1	7258893	7106195	6915548	7093545	2.43	cps
Scandium	45-2	122873	118160	119041	120025	2.09	cps
Selenium	82-1	40	-23	63	27	168.18	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	7	3	100.05	cps
Silicon	28-1	519863	487378	467150	491464	5.41	cps
Silver	107-1	2060	1927	1777	1921	7.38	cps
Silver	109-1	2037	1783	1607	1809	11.95	cps
Sodium	23-2	155496298	155649081	153737354	154960911	0.69	cps
Strontium	86-1	11972	12005	11638	11872	1.71	cps
Strontium	88-1	102741	101851	98907	101166	1.98	cps
Sulfur	34-1	316292	308759	305802	310284	1.74	cps
Terbium	159-1	13147416	12613905	12384964	12715429	3.08	cps
Terbium	159-2	3926270	3797909	3919718	3881299	1.86	cps
Thallium	203-1	1250	1160	1017	1142	10.30	cps
Thallium	205-1	2940	2544	2204	2563	14.39	cps
Tin	118-1	3167	3017	2717	2967	7.72	cps
Titanium	47-1	6665	6678	6195	6513	4.23	cps
Uranium	238-1	3174	2667	2434	2758	13.72	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P8
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:11:54 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	487	553	487	509	7.56	cps
Ytterbium	172-1	587	540	603	577	5.69	cps
Ytterbium	172-2	227	153	203	194	19.27	cps
Ytterbium	176-1	2054	2130	2054	2079	2.13	cps
Ytterbium	176-2	313	387	410	370	13.63	cps
Yttrium	89-1	17964401	17522585	17072825	17519937	2.54	cps
Yttrium	89-2	1158835	1132313	1146350	1145833	1.16	cps
Zinc	66-2	1173	1307	1320	1267	6.40	cps
Zirconium	90-1	11398	11425	10801	11208	3.15	cps
Zirconium	91-1	2654	2604	2464	2574	3.83	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P8
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:23:25 DataFile Name : 013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25205	25416	25836	25486	1.26	cps
Antimony	121-1	2187198	2229317	2228991	2215169	1.09	cps
Arsenic	75-2	40555	40745	41013	40771	0.56	cps
Barium	135-1	273341	276537	279295	276391	1.08	cps
Barium	137-1	476167	482348	484413	480976	0.89	cps
Beryllium	9-1	418137	422592	424290	421673	0.75	cps
Bismuth	209-1	8324871	8427793	8363198	8371954	0.62	cps
Bismuth	209-2	3260145	3278260	3299075	3279160	0.59	cps
Bromine	81-1	5494	5771	5821	5696	3.09	cps
Cadmium	108-1	39791	40426	40643	40287	1.10	cps
Cadmium	106-1	65186	66975	66673	66278	1.44	cps
Cadmium	111-1	269480	272621	276549	272883	1.30	cps
Calcium	43-1	92924	94387	95259	94190	1.25	cps
Calcium	44-1	1519387	1564418	1568061	1550622	1.75	cps
Carbon	12-1	2719745	2770813	2787224	2759261	1.28	cps
Carbon	12-2	18585	19283	18815	18894	1.88	cps
Chlorine	35-1	61353	64188	64894	63478	2.95	cps
Chlorine	35-2	223	290	230	248	14.82	cps
Chromium	52-2	237130	239155	238072	238119	0.43	cps
Cobalt	59-2	445921	444931	446881	445911	0.22	cps
Copper	63-2	347094	347761	348514	347790	0.20	cps
Dysprosium	156-1	103	133	107	114	14.37	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	60	70	77	69	12.18	cps
Erbium	164-2	20	17	20	19	10.18	cps
Gadolinium	160-1	63	30	63	52	36.85	cps
Gadolinium	160-2	23	13	7	14	58.06	cps
Holmium	165-1	13241837	13303455	13215923	13253738	0.34	cps
Holmium	165-2	4577172	4521240	4626713	4575042	1.15	cps
Indium	115-1	10412324	10455334	10404779	10424146	0.26	cps
Indium	115-2	999572	1003980	1016688	1006747	0.88	cps
Iron	54-2	204620	206696	205154	205490	0.52	cps
Iron	56-2	3743294	3732253	3766029	3747192	0.46	cps
Iron	57-2	91605	91273	91790	91556	0.29	cps
Krypton	83-1	143	110	197	150	29.14	cps
Lead	206-1	1937453	1989104	1949532	1958697	1.38	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P8
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:23:25 DataFile Name : 013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1510124	1543984	1553164	1535757	1.48	cps
Lead	208-1	7415783	7628951	7608303	7551012	1.56	cps
Lithium	6-1	6483359	6288306	6381842	6384502	1.53	cps
Magnesium	24-2	209733	208647	210387	209589	0.42	cps
Manganese	55-2	105113	105012	104885	105004	0.11	cps
Molybdenum	94-1	19559615	19692060	19741233	19664303	0.48	cps
Molybdenum	95-1	27751112	28314398	27974339	28013283	1.01	cps
Molybdenum	96-1	30095530	30738689	30790470	30541563	1.27	cps
Molybdenum	97-1	16885604	17320913	17273652	17160056	1.39	cps
Molybdenum	98-1	44757071	45145096	45178969	45027045	0.52	cps
Neodymium	150-1	50	73	77	67	21.80	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	123087	122777	122902	122922	0.13	cps
Phosphorus	31-2	30	50	27	36	35.49	cps
Potassium	39-2	202169	202391	199922	201494	0.68	cps
Rhodium	103-1	9653928	9664511	9642127	9653522	0.12	cps
Rhodium	103-2	3703401	3661254	3717736	3694130	0.79	cps
Scandium	45-1	8019546	8026171	7893542	7979753	0.94	cps
Scandium	45-2	139374	141401	141360	140712	0.82	cps
Selenium	82-1	35910	36204	36167	36093	0.44	cps
Selenium	77-2	607	523	617	582	8.80	cps
Selenium	78-2	1997	1817	2154	1989	8.47	cps
Silicon	28-1	4641429	4688325	4662469	4664074	0.50	cps
Silver	107-1	678836	693739	693994	688856	1.26	cps
Silver	109-1	638124	646956	656986	647355	1.46	cps
Sodium	23-2	718704	722601	719611	720305	0.28	cps
Strontium	86-1	1990919	2039834	2063931	2031561	1.83	cps
Strontium	88-1	17001716	17207207	17267016	17158646	0.81	cps
Sulfur	34-1	340563	340113	343351	341342	0.51	cps
Terbium	159-1	13637319	13825190	13432223	13631577	1.44	cps
Terbium	159-2	4401024	4445204	4498344	4448191	1.10	cps
Thallium	203-1	2380440	2393795	2384731	2386322	0.29	cps
Thallium	205-1	5650185	5576922	5679386	5635498	0.94	cps
Tin	118-1	4909510	4960018	4974039	4947856	0.69	cps
Titanium	47-1	8898716	9050279	9062313	9003769	1.01	cps
Uranium	238-1	18156867	18697347	18657667	18503960	1.63	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICV001 Instrumnet Name : P8
Client Sample ID : ICV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:23:25 DataFile Name : 013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	179486	178485	179908	179293	0.41	cps
Ytterbium	172-1	87	93	90	90	3.70	cps
Ytterbium	172-2	37	23	30	30	22.23	cps
Ytterbium	176-1	26300	26961	27262	26841	1.83	cps
Ytterbium	176-2	9110	8940	9153	9068	1.24	cps
Yttrium	89-1	19128784	19381279	19239966	19250010	0.66	cps
Yttrium	89-2	1311458	1313811	1330464	1318578	0.79	cps
Zinc	66-2	71033	70300	71050	70794	0.61	cps
Zirconium	90-1	10213938	10241614	10373190	10276247	0.83	cps
Zirconium	91-1	2280425	2340951	2340741	2320706	1.50	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P8
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:30:12 DataFile Name : 015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	77	73	84	19.47	cps
Antimony	121-1	240	240	243	241	0.80	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	583	447	480	503	14.16	cps
Barium	137-1	907	947	923	926	2.17	cps
Beryllium	9-1	437	375	420	411	7.85	cps
Bismuth	209-1	8350748	8518343	8433050	8434047	0.99	cps
Bismuth	209-2	3346284	3301519	3350818	3332874	0.82	cps
Bromine	81-1	5801	6015	5645	5820	3.19	cps
Cadmium	108-1	33	13	40	29	48.05	cps
Cadmium	106-1	6478	6241	6298	6339	1.95	cps
Cadmium	111-1	1302	1279	1265	1282	1.47	cps
Calcium	43-1	407	443	453	434	5.66	cps
Calcium	44-1	8743	8843	8953	8846	1.19	cps
Carbon	12-1	2773984	2757309	2773489	2768261	0.34	cps
Carbon	12-2	18845	18745	18712	18768	0.37	cps
Chlorine	35-1	57959	59278	59696	58977	1.54	cps
Chlorine	35-2	233	280	267	260	9.25	cps
Chromium	52-2	553	517	607	559	8.10	cps
Cobalt	59-2	160	137	183	160	14.58	cps
Copper	63-2	3384	3374	3414	3390	0.61	cps
Dysprosium	156-1	87	113	123	108	17.59	cps
Dysprosium	156-2	17	7	13	12	41.65	cps
Erbium	164-1	60	97	93	83	24.33	cps
Erbium	164-2	30	37	37	34	11.18	cps
Gadolinium	160-1	47	47	30	41	23.41	cps
Gadolinium	160-2	13	7	7	9	43.25	cps
Holmium	165-1	13334549	13511047	13529615	13458404	0.80	cps
Holmium	165-2	4612582	4678951	4712440	4667991	1.09	cps
Indium	115-1	10479961	10770465	10615438	10621955	1.37	cps
Indium	115-2	1027011	1036702	1041832	1035182	0.73	cps
Iron	54-2	473	397	427	432	8.94	cps
Iron	56-2	5191	5594	5608	5464	4.34	cps
Iron	57-2	127	127	133	129	2.99	cps
Krypton	83-1	120	120	100	113	10.19	cps
Lead	206-1	1803	1783	1763	1783	1.12	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P8
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:30:12 DataFile Name : 015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1503	1463	1413	1460	3.09	cps
Lead	208-1	7007	7071	6744	6941	2.50	cps
Lithium	6-1	6367464	6543675	6562883	6491341	1.66	cps
Magnesium	24-2	420	473	543	479	12.92	cps
Manganese	55-2	310	260	270	280	9.45	cps
Molybdenum	94-1	417	450	350	406	12.55	cps
Molybdenum	95-1	293	280	390	321	18.69	cps
Molybdenum	96-1	433	397	450	427	6.39	cps
Molybdenum	97-1	200	227	203	210	6.92	cps
Molybdenum	98-1	517	497	540	518	4.19	cps
Neodymium	150-1	13	17	43	24	67.26	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1020	997	957	991	3.23	cps
Phosphorus	31-2	53	73	57	61	17.53	cps
Potassium	39-2	7008	6712	6658	6793	2.78	cps
Rhodium	103-1	9730065	9825476	10018158	9857900	1.49	cps
Rhodium	103-2	3758815	3763261	3809958	3777345	0.75	cps
Scandium	45-1	8026184	8099263	8006115	8043854	0.61	cps
Scandium	45-2	141343	140360	144882	142195	1.67	cps
Selenium	82-1	23	-17	37	14	192.15	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	0	10	7	86.60	cps
Silicon	28-1	393084	391399	390686	391723	0.31	cps
Silver	107-1	250	287	283	273	7.42	cps
Silver	109-1	230	160	170	187	20.28	cps
Sodium	23-2	21576	21246	21589	21470	0.91	cps
Strontium	86-1	267	297	277	280	5.46	cps
Strontium	88-1	620	650	587	619	5.12	cps
Sulfur	34-1	357671	355922	358710	357434	0.39	cps
Terbium	159-1	13508397	13841491	13796921	13715603	1.32	cps
Terbium	159-2	4397082	4405897	4550535	4451171	1.94	cps
Thallium	203-1	297	257	270	274	7.42	cps
Thallium	205-1	720	657	753	710	6.92	cps
Tin	118-1	1437	1503	1443	1461	2.51	cps
Titanium	47-1	233	217	210	220	5.46	cps
Uranium	238-1	87	77	83	82	6.19	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICB001 Instrumnet Name : P8
Client Sample ID : ICB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:30:12 DataFile Name : 015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	10	3	6	69.34	cps
Ytterbium	172-1	73	60	67	67	10.00	cps
Ytterbium	172-2	23	27	40	30	29.40	cps
Ytterbium	176-1	1740	1877	1803	1807	3.79	cps
Ytterbium	176-2	283	227	213	241	15.42	cps
Yttrium	89-1	19293567	19581949	19547854	19474457	0.81	cps
Yttrium	89-2	1323972	1332741	1351119	1335944	1.04	cps
Zinc	66-2	343	293	300	312	8.69	cps
Zirconium	90-1	670	540	683	631	12.55	cps
Zirconium	91-1	193	180	153	176	11.60	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P8
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:33:35 DataFile Name : 016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4901108	4957614	5011390	4956704	1.11	cps
Antimony	121-1	11445	11605	11862	11637	1.81	cps
Arsenic	75-2	60	47	57	54	12.74	cps
Barium	135-1	4517	4421	4564	4501	1.62	cps
Barium	137-1	7429	7992	7669	7697	3.67	cps
Beryllium	9-1	1462	1451	1536	1483	3.11	cps
Bismuth	209-1	8029161	7920141	7695182	7881494	2.16	cps
Bismuth	209-2	3076553	2725237	2460050	2753947	11.23	cps
Bromine	81-1	8012	8793	8893	8566	5.63	cps
Cadmium	108-1	3534	3410	3297	3414	3.47	cps
Cadmium	106-1	6302	6261	5971	6178	2.92	cps
Cadmium	111-1	2834	3109	2757	2900	6.38	cps
Calcium	43-1	4388937	4497275	4533970	4473394	1.69	cps
Calcium	44-1	70056577	71805634	72467876	71443362	1.74	cps
Carbon	12-1	34017057	34964672	35356715	34779481	1.98	cps
Carbon	12-2	237387	238762	238995	238381	0.36	cps
Chlorine	35-1	52808736	57254009	59245486	56436077	5.84	cps
Chlorine	35-2	235971	239533	242665	239390	1.40	cps
Chromium	52-2	46405	46221	46646	46424	0.46	cps
Cobalt	59-2	4881	5101	5194	5059	3.18	cps
Copper	63-2	28702	29708	28555	28989	2.16	cps
Dysprosium	156-1	123	110	107	113	7.78	cps
Dysprosium	156-2	27	30	10	22	48.22	cps
Erbium	164-1	110	130	137	126	11.05	cps
Erbium	164-2	50	47	43	47	7.15	cps
Gadolinium	160-1	143	107	83	111	27.23	cps
Gadolinium	160-2	30	23	30	28	13.86	cps
Holmium	165-1	14114502	14083022	13675259	13957594	1.76	cps
Holmium	165-2	4839672	4130141	3859162	4276325	11.84	cps
Indium	115-1	10760650	10525780	10335297	10540576	2.02	cps
Indium	115-2	1035173	895240	818791	916401	11.97	cps
Iron	54-2	9914222	9915854	9915299	9915125	0.01	cps
Iron	56-2	182133344	183506117	184159311	183266257	0.56	cps
Iron	57-2	4523052	4662043	4656379	4613825	1.70	cps
Krypton	83-1	167	147	157	157	6.38	cps
Lead	206-1	42198	41907	41824	41977	0.47	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P8
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:33:35 DataFile Name : 016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	33520	32848	33674	33347	1.32	cps
Lead	208-1	156629	155918	157424	156657	0.48	cps
Lithium	6-1	6173079	6123249	5902247	6066191	2.38	cps
Magnesium	24-2	17173928	17341772	17650684	17388795	1.39	cps
Manganese	55-2	7759	7896	7889	7848	0.98	cps
Molybdenum	94-1	6476123	6432498	6598263	6502294	1.32	cps
Molybdenum	95-1	11452394	11609811	11669994	11577399	0.97	cps
Molybdenum	96-1	12058014	12324906	12348248	12243723	1.32	cps
Molybdenum	97-1	6981968	7048584	7114519	7048357	0.94	cps
Molybdenum	98-1	18226836	18499169	18768087	18498031	1.46	cps
Neodymium	150-1	87	90	90	89	2.16	cps
Neodymium	150-2	20	13	3	12	68.66	cps
Nickel	60-2	7015	6662	7002	6893	2.91	cps
Phosphorus	31-2	233161	231752	233490	232801	0.40	cps
Potassium	39-2	10121879	10282164	10325520	10243188	1.05	cps
Rhodium	103-1	9461628	9356224	9321153	9379668	0.78	cps
Rhodium	103-2	3594971	3117320	2863266	3191852	11.64	cps
Scandium	45-1	8328380	8264494	8153872	8248915	1.07	cps
Scandium	45-2	147946	130264	117738	131983	11.50	cps
Selenium	82-1	-33	23	10	0	0.00	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	3	10	7	50.03	cps
Silicon	28-1	620057	625243	623504	622935	0.42	cps
Silver	107-1	1137	1020	850	1002	14.38	cps
Silver	109-1	1150	907	703	920	24.31	cps
Sodium	23-2	36544424	36411435	36681626	36545829	0.37	cps
Strontium	86-1	128766	131773	132975	131171	1.65	cps
Strontium	88-1	1105428	1118103	1132747	1118759	1.22	cps
Sulfur	34-1	6034441	6046232	6140711	6073795	0.96	cps
Terbium	159-1	14326915	14261221	14089071	14225736	0.86	cps
Terbium	159-2	4548473	4005213	3642906	4065530	11.21	cps
Thallium	203-1	1257	1410	1397	1355	6.27	cps
Thallium	205-1	2824	3290	3387	3167	9.51	cps
Tin	118-1	2410	2704	2914	2676	9.46	cps
Titanium	47-1	3872497	3963795	3951762	3929351	1.26	cps
Uranium	238-1	637	603	697	646	7.33	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSA001 Instrumnet Name : P8
Client Sample ID : ICSA001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:33:35 DataFile Name : 016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	277	290	237	268	10.37	cps
Ytterbium	172-1	67	73	87	76	13.48	cps
Ytterbium	172-2	20	23	20	21	9.11	cps
Ytterbium	176-1	1793	1757	1867	1806	3.10	cps
Ytterbium	176-2	270	193	180	214	22.65	cps
Yttrium	89-1	20378428	20108549	19717012	20067997	1.66	cps
Yttrium	89-2	1448361	1263731	1102350	1271481	13.62	cps
Zinc	66-2	4117	3704	4101	3974	5.89	cps
Zirconium	90-1	803	897	977	892	9.72	cps
Zirconium	91-1	233	237	193	221	10.91	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P8
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:36:45 DataFile Name : 017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5124886	5072657	5099720	5099087	0.51	cps
Antimony	121-1	230472	237215	240009	235899	2.08	cps
Arsenic	75-2	4521	4287	4384	4397	2.67	cps
Barium	135-1	63504	63789	64586	63960	0.88	cps
Barium	137-1	109327	110067	111669	110354	1.09	cps
Beryllium	9-1	86520	86691	86938	86716	0.24	cps
Bismuth	209-1	7975120	8070693	7971758	8005857	0.70	cps
Bismuth	209-2	2999167	3019331	2973818	2997438	0.76	cps
Bromine	81-1	8279	8636	8723	8546	2.75	cps
Cadmium	108-1	8423	8499	8569	8497	0.86	cps
Cadmium	106-1	13700	14895	14588	14394	4.31	cps
Cadmium	111-1	56473	58114	56815	57134	1.52	cps
Calcium	43-1	4594774	4660398	4579144	4611439	0.93	cps
Calcium	44-1	73301092	75217097	75626387	74714859	1.66	cps
Carbon	12-1	36051259	36651419	36892309	36531663	1.19	cps
Carbon	12-2	248480	246500	248714	247898	0.49	cps
Chlorine	35-1	58964424	62950056	64484166	62132882	4.59	cps
Chlorine	35-2	253643	251231	256709	253861	1.08	cps
Chromium	52-2	96814	96301	96925	96680	0.34	cps
Cobalt	59-2	95319	95286	96292	95632	0.60	cps
Copper	63-2	96676	96995	97964	97212	0.69	cps
Dysprosium	156-1	143	137	120	133	9.02	cps
Dysprosium	156-2	23	17	23	21	18.21	cps
Erbium	164-1	107	97	120	108	10.86	cps
Erbium	164-2	43	33	23	33	30.00	cps
Gadolinium	160-1	97	80	53	77	28.51	cps
Gadolinium	160-2	17	23	23	21	18.21	cps
Holmium	165-1	13891629	13992551	14145320	14009834	0.91	cps
Holmium	165-2	4625531	4622520	4682128	4643393	0.72	cps
Indium	115-1	10562276	10740088	10941603	10747989	1.77	cps
Indium	115-2	1002761	1000278	1006698	1003246	0.32	cps
Iron	54-2	10276068	10142870	10218415	10212451	0.65	cps
Iron	56-2	190239257	187045677	186609424	187964786	1.05	cps
Iron	57-2	4778537	4812411	4842939	4811296	0.67	cps
Krypton	83-1	140	160	180	160	12.50	cps
Lead	206-1	227009	228786	231613	229136	1.01	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P8
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:36:45 DataFile Name : 017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	189132	192844	193422	191799	1.21	cps
Lead	208-1	875328	892622	895325	887758	1.22	cps
Lithium	6-1	6070048	6034669	6055828	6053515	0.29	cps
Magnesium	24-2	17844476	17767882	18115308	17909222	1.02	cps
Manganese	55-2	29871	29243	30195	29770	1.63	cps
Molybdenum	94-1	7195039	7378776	7440857	7338224	1.74	cps
Molybdenum	95-1	12226885	12342474	12375141	12314833	0.63	cps
Molybdenum	96-1	12981142	13267610	13282053	13176935	1.29	cps
Molybdenum	97-1	7409752	7506484	7578822	7498353	1.13	cps
Molybdenum	98-1	19702011	19854350	20099896	19885419	1.01	cps
Neodymium	150-1	87	93	87	89	4.33	cps
Neodymium	150-2	13	10	3	9	57.30	cps
Nickel	60-2	31749	31124	30890	31254	1.42	cps
Phosphorus	31-2	241871	239844	239871	240528	0.48	cps
Potassium	39-2	10622818	10533296	10604144	10586753	0.45	cps
Rhodium	103-1	9457318	9450627	9530779	9479575	0.47	cps
Rhodium	103-2	3529108	3521914	3573863	3541628	0.79	cps
Scandium	45-1	8266122	8583208	8545764	8465031	2.05	cps
Scandium	45-2	145650	145534	147272	146152	0.66	cps
Selenium	82-1	3881	3807	4017	3902	2.73	cps
Selenium	77-2	77	90	37	68	40.95	cps
Selenium	78-2	203	220	210	211	3.97	cps
Silicon	28-1	1023419	1030305	1055773	1036499	1.64	cps
Silver	107-1	270815	278339	279235	276130	1.67	cps
Silver	109-1	260604	264387	267099	264030	1.24	cps
Sodium	23-2	37824588	38030154	37732189	37862311	0.40	cps
Strontium	86-1	316320	320329	321950	319533	0.91	cps
Strontium	88-1	2849848	2846761	2855171	2850593	0.15	cps
Sulfur	34-1	6167447	6291641	6347294	6268794	1.47	cps
Terbium	159-1	14295274	14484759	14537814	14439282	0.88	cps
Terbium	159-2	4471628	4423506	4487157	4460764	0.74	cps
Thallium	203-1	229645	234017	234928	232863	1.21	cps
Thallium	205-1	544612	559375	560574	554854	1.60	cps
Tin	118-1	433452	441783	441475	438903	1.08	cps
Titanium	47-1	4027062	4166229	4150663	4114651	1.85	cps
Uranium	238-1	1719544	1757624	1783186	1753451	1.83	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : ICSAB001 Instrumnet Name : P8
Client Sample ID : ICSAB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:36:45 DataFile Name : 017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	39347	37974	38191	38504	1.92	cps
Ytterbium	172-1	80	90	90	87	6.66	cps
Ytterbium	172-2	40	33	20	31	32.73	cps
Ytterbium	176-1	4317	4638	4421	4459	3.66	cps
Ytterbium	176-2	1023	1027	1137	1062	6.07	cps
Yttrium	89-1	20155802	20348232	20477061	20327032	0.80	cps
Yttrium	89-2	1359421	1417091	1364705	1380406	2.31	cps
Zinc	66-2	11365	11124	11124	11205	1.24	cps
Zirconium	90-1	929031	937760	955309	940700	1.42	cps
Zirconium	91-1	206327	210402	210123	208950	1.09	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P8
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:41:13 DataFile Name : 018CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2695980	2698738	2734489	2709736	0.79	cps
Antimony	121-1	5701044	5799598	5716505	5739049	0.92	cps
Arsenic	75-2	102485	101774	102294	102185	0.36	cps
Barium	135-1	7437488	7412588	7493474	7447850	0.56	cps
Barium	137-1	12932604	12939318	12878161	12916694	0.26	cps
Beryllium	9-1	2150722	2152857	2153786	2152455	0.07	cps
Bismuth	209-1	7452751	7473976	7481188	7469305	0.20	cps
Bismuth	209-2	2742485	2777926	2773964	2764791	0.70	cps
Bromine	81-1	6858	6752	6655	6755	1.51	cps
Cadmium	108-1	114050	114238	114346	114211	0.13	cps
Cadmium	106-1	166339	166143	166950	166477	0.25	cps
Cadmium	111-1	1298648	1311501	1314572	1308241	0.65	cps
Calcium	43-1	11367744	11282537	11407749	11352677	0.56	cps
Calcium	44-1	184625624	183229797	186732251	184862557	0.95	cps
Carbon	12-1	2954172	3001556	3060561	3005430	1.77	cps
Carbon	12-2	24711	24147	23733	24197	2.03	cps
Chlorine	35-1	1822999	1725408	1632923	1727110	5.50	cps
Chlorine	35-2	5581	5328	5171	5360	3.86	cps
Chromium	52-2	1208981	1194583	1203241	1202268	0.60	cps
Cobalt	59-2	2251387	2240947	2225883	2239406	0.57	cps
Copper	63-2	15910724	15980261	15831109	15907365	0.47	cps
Dysprosium	156-1	543	480	440	488	10.68	cps
Dysprosium	156-2	103	77	63	81	25.11	cps
Erbium	164-1	307	293	313	304	3.34	cps
Erbium	164-2	97	107	163	122	29.42	cps
Gadolinium	160-1	240	250	260	250	4.00	cps
Gadolinium	160-2	123	90	113	109	15.71	cps
Holmium	165-1	13575292	13557458	13356074	13496275	0.90	cps
Holmium	165-2	4373024	4418760	4454096	4415293	0.92	cps
Indium	115-1	9987146	9873819	10059893	9973619	0.94	cps
Indium	115-2	930308	934574	935489	933457	0.30	cps
Iron	54-2	12394695	12260434	12217170	12290766	0.75	cps
Iron	56-2	227987223	226939390	225742143	226889586	0.50	cps
Iron	57-2	5710920	5700653	5714364	5708645	0.12	cps
Krypton	83-1	230	257	240	242	5.56	cps
Lead	206-1	22945153	23179987	22891348	23005496	0.67	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P8
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:41:13 DataFile Name : 018CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19817439	20050023	19698512	19855325	0.90	cps
Lead	208-1	91873942	92176334	91001996	91684090	0.67	cps
Lithium	6-1	5524285	5580855	5628171	5577770	0.93	cps
Magnesium	24-2	45052434	45611671	45110206	45258104	0.68	cps
Manganese	55-2	5443889	5376349	5398720	5406320	0.64	cps
Molybdenum	94-1	21702406	21700239	21546346	21649664	0.41	cps
Molybdenum	95-1	30842926	31107165	31094030	31014707	0.48	cps
Molybdenum	96-1	33477708	34159882	34260307	33965966	1.25	cps
Molybdenum	97-1	18899745	18976276	19108209	18994743	0.56	cps
Molybdenum	98-1	49408081	49880341	49815818	49701413	0.52	cps
Neodymium	150-1	747	830	867	814	7.55	cps
Neodymium	150-2	47	53	20	40	44.09	cps
Nickel	60-2	566472	568176	565812	566820	0.22	cps
Phosphorus	31-2	23319	22891	22735	22982	1.32	cps
Potassium	39-2	13186269	13129888	13146127	13154095	0.22	cps
Rhodium	103-1	8810504	8774478	8870010	8818331	0.55	cps
Rhodium	103-2	3237179	3209997	3241380	3229518	0.53	cps
Scandium	45-1	7817109	7896097	8015560	7909589	1.26	cps
Scandium	45-2	136319	137766	139728	137937	1.24	cps
Selenium	82-1	89807	89877	90524	90069	0.44	cps
Selenium	77-2	1530	1377	1480	1462	5.35	cps
Selenium	78-2	4918	4914	4924	4919	0.10	cps
Silicon	28-1	35883204	35590792	35938382	35804126	0.52	cps
Silver	107-1	7242404	7192962	7183824	7206397	0.44	cps
Silver	109-1	6924688	6916840	6974380	6938636	0.45	cps
Sodium	23-2	90095639	91512639	91122172	90910150	0.81	cps
Strontium	86-1	2231661	2240546	2235780	2235995	0.20	cps
Strontium	88-1	18754785	18799007	19031950	18861914	0.79	cps
Sulfur	34-1	962573	963545	975559	967226	0.75	cps
Terbium	159-1	13668289	13595252	13619839	13627794	0.27	cps
Terbium	159-2	4285839	4210692	4254835	4250455	0.89	cps
Thallium	203-1	5977732	5938268	5881116	5932372	0.82	cps
Thallium	205-1	14140676	14123829	13836242	14033583	1.22	cps
Tin	118-1	4914976	4919661	5005646	4946761	1.03	cps
Titanium	47-1	9984607	9921061	9793885	9899851	0.98	cps
Uranium	238-1	19221093	19103515	18998093	19107567	0.58	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV001 Instrumnet Name : P8
Client Sample ID : CCV001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:41:13 DataFile Name : 018CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	961873	961543	960947	961455	0.05	cps
Ytterbium	172-1	453	350	357	387	14.96	cps
Ytterbium	172-2	123	140	120	128	8.38	cps
Ytterbium	176-1	28758	29406	29169	29111	1.13	cps
Ytterbium	176-2	9197	8843	9253	9098	2.44	cps
Yttrium	89-1	19208026	19420785	19364881	19331230	0.57	cps
Yttrium	89-2	1270870	1290997	1291726	1284531	0.92	cps
Zinc	66-2	1709399	1741676	1715082	1722052	1.00	cps
Zirconium	90-1	10872622	10967903	10886822	10909116	0.47	cps
Zirconium	91-1	2440124	2483264	2439090	2454160	1.03	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P8
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:45:39 DataFile Name : 019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	137	143	127	136	6.19	cps
Antimony	121-1	817	670	660	716	12.26	cps
Arsenic	75-2	10	7	7	8	24.71	cps
Barium	135-1	957	977	957	963	1.20	cps
Barium	137-1	1627	1570	1413	1537	7.19	cps
Beryllium	9-1	594	654	626	625	4.81	cps
Bismuth	209-1	8620483	8653728	8533509	8602573	0.72	cps
Bismuth	209-2	3330870	3273411	3254291	3286191	1.21	cps
Bromine	81-1	6488	6135	6058	6227	3.69	cps
Cadmium	108-1	30	27	33	30	11.10	cps
Cadmium	106-1	6572	6812	6628	6671	1.88	cps
Cadmium	111-1	1377	1414	1389	1393	1.35	cps
Calcium	43-1	590	680	647	639	7.12	cps
Calcium	44-1	12472	12042	11655	12056	3.39	cps
Carbon	12-1	2860907	2835633	2889137	2861892	0.94	cps
Carbon	12-2	19299	19093	19176	19189	0.54	cps
Chlorine	35-1	699953	668231	638036	668740	4.63	cps
Chlorine	35-2	2327	2287	2164	2259	3.77	cps
Chromium	52-2	537	657	657	617	11.24	cps
Cobalt	59-2	213	237	210	220	6.60	cps
Copper	63-2	3567	3504	3774	3615	3.91	cps
Dysprosium	156-1	77	77	103	86	17.99	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	43	83	70	66	31.07	cps
Erbium	164-2	17	20	40	26	49.38	cps
Gadolinium	160-1	27	33	53	38	36.73	cps
Gadolinium	160-2	10	23	13	16	44.60	cps
Holmium	165-1	14034903	13965571	13520414	13840296	2.02	cps
Holmium	165-2	4640936	4517934	4524085	4560985	1.52	cps
Indium	115-1	11254094	11073338	10799512	11042315	2.07	cps
Indium	115-2	1045047	1046284	1040022	1043784	0.32	cps
Iron	54-2	730	813	753	766	5.62	cps
Iron	56-2	11348	11208	11782	11446	2.61	cps
Iron	57-2	307	280	300	296	4.69	cps
Krypton	83-1	187	147	127	153	19.92	cps
Lead	206-1	3007	2927	2867	2934	2.39	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P8
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:45:39 DataFile Name : 019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2554	2620	2370	2515	5.15	cps
Lead	208-1	12072	11575	11115	11588	4.13	cps
Lithium	6-1	6608206	6596812	6351991	6519003	2.22	cps
Magnesium	24-2	1453	1520	1607	1527	5.04	cps
Manganese	55-2	400	370	380	383	3.98	cps
Molybdenum	94-1	1113	1027	973	1038	6.81	cps
Molybdenum	95-1	1143	977	1023	1048	8.21	cps
Molybdenum	96-1	1443	1350	1170	1321	10.52	cps
Molybdenum	97-1	817	777	670	754	10.05	cps
Molybdenum	98-1	2157	1667	1680	1835	15.22	cps
Neodymium	150-1	20	47	40	36	39.03	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	1070	963	990	1008	5.51	cps
Phosphorus	31-2	47	33	47	42	18.24	cps
Potassium	39-2	8046	7712	7625	7794	2.85	cps
Rhodium	103-1	10312281	10243686	10213081	10256349	0.50	cps
Rhodium	103-2	3836842	3823908	3795571	3818774	0.55	cps
Scandium	45-1	8460222	8566128	8348295	8458215	1.29	cps
Scandium	45-2	144269	143794	142885	143649	0.49	cps
Selenium	82-1	-50	13	3	-11	-306.35	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	3	0	4	114.60	cps
Silicon	28-1	389884	389488	393389	390920	0.55	cps
Silver	107-1	517	470	567	518	9.34	cps
Silver	109-1	400	400	407	402	0.96	cps
Sodium	23-2	26721	27015	26608	26781	0.79	cps
Strontium	86-1	287	273	297	286	4.10	cps
Strontium	88-1	703	707	690	700	1.26	cps
Sulfur	34-1	362418	363972	364146	363512	0.26	cps
Terbium	159-1	14404740	14223469	13892806	14173672	1.83	cps
Terbium	159-2	4564221	4525498	4414820	4501513	1.72	cps
Thallium	203-1	873	873	780	842	6.40	cps
Thallium	205-1	2134	1850	1917	1967	7.53	cps
Tin	118-1	1563	1390	1573	1509	6.83	cps
Titanium	47-1	407	367	330	368	10.43	cps
Uranium	238-1	540	427	440	469	13.21	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB001 Instrumnet Name : P8
Client Sample ID : CCB001 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 10:45:39 DataFile Name : 019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	23	37	26	39.85	cps
Ytterbium	172-1	77	57	70	68	15.02	cps
Ytterbium	172-2	23	20	37	27	33.08	cps
Ytterbium	176-1	1960	1843	1853	1886	3.43	cps
Ytterbium	176-2	253	240	303	266	12.57	cps
Yttrium	89-1	20968203	20450417	20174848	20531156	1.96	cps
Yttrium	89-2	1437576	1347487	1348827	1377963	3.75	cps
Zinc	66-2	373	363	300	346	11.51	cps
Zirconium	90-1	1080	1133	983	1066	7.14	cps
Zirconium	91-1	217	260	237	238	9.12	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-01 Instrumnet Name : P8
Client Sample ID : LOD-MDL-SOIL-01-QT4- Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:01:47 DataFile Name : 021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	463	517	567	516	10.02	cps
Antimony	121-1	4821	4601	4761	4728	2.41	cps
Arsenic	75-2	67	93	90	83	17.43	cps
Barium	135-1	6608	5968	6405	6327	5.17	cps
Barium	137-1	10681	10401	10658	10580	1.47	cps
Beryllium	9-1	2161	2217	2162	2180	1.47	cps
Bismuth	209-1	8651910	8738669	8702726	8697768	0.50	cps
Bismuth	209-2	3310902	3259100	3227622	3265875	1.29	cps
Bromine	81-1	5691	5745	5911	5782	1.99	cps
Cadmium	108-1	120	133	110	121	9.67	cps
Cadmium	106-1	6605	6655	6578	6613	0.59	cps
Cadmium	111-1	2437	2601	2455	2498	3.60	cps
Calcium	43-1	9680	9543	9583	9602	0.73	cps
Calcium	44-1	156110	156096	156504	156236	0.15	cps
Carbon	12-1	2816339	2860015	2886090	2854148	1.23	cps
Carbon	12-2	19329	18725	19286	19114	1.76	cps
Chlorine	35-1	166684	166734	165483	166301	0.43	cps
Chlorine	35-2	563	593	527	561	5.95	cps
Chromium	52-2	1407	1550	1543	1500	5.39	cps
Cobalt	59-2	1900	1907	2024	1943	3.57	cps
Copper	63-2	5895	5488	5531	5638	3.96	cps
Dysprosium	156-1	103	80	90	91	12.85	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	73	53	63	63	15.79	cps
Erbium	164-2	43	23	17	28	49.95	cps
Gadolinium	160-1	63	40	60	54	23.18	cps
Gadolinium	160-2	10	3	13	9	57.30	cps
Holmium	165-1	13843547	13802205	13634302	13760018	0.81	cps
Holmium	165-2	4612545	4639181	4596457	4616061	0.47	cps
Indium	115-1	10997421	10979608	10822244	10933091	0.88	cps
Indium	115-2	1017886	1020607	1016880	1018457	0.19	cps
Iron	54-2	3887	3697	3477	3687	5.57	cps
Iron	56-2	66832	66423	66283	66513	0.43	cps
Iron	57-2	1627	1627	1593	1616	1.19	cps
Krypton	83-1	133	133	127	131	2.94	cps
Lead	206-1	5094	5375	5231	5233	2.68	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-01 Instrumnet Name : P8
Client Sample ID : LOD-MDL-SOIL-01-QT4- Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:01:47 DataFile Name : 021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4874	4764	4684	4774	2.00	cps
Lead	208-1	21350	21187	21270	21269	0.38	cps
Lithium	6-1	6511436	6498529	6503277	6504414	0.10	cps
Magnesium	24-2	38421	38778	38374	38524	0.57	cps
Manganese	55-2	1087	1127	1033	1082	4.33	cps
Molybdenum	94-1	4691	4734	4647	4691	0.92	cps
Molybdenum	95-1	2564	2737	2447	2582	5.65	cps
Molybdenum	96-1	3137	3230	3270	3213	2.13	cps
Molybdenum	97-1	1443	1577	1563	1528	4.81	cps
Molybdenum	98-1	4094	4011	4007	4037	1.22	cps
Neodymium	150-1	17	13	33	21	50.75	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1437	1440	1347	1408	3.76	cps
Phosphorus	31-2	67	77	93	79	17.07	cps
Potassium	39-2	20421	19907	20204	20178	1.28	cps
Rhodium	103-1	10091880	10194590	10161883	10149451	0.52	cps
Rhodium	103-2	3801119	3814982	3797303	3804468	0.24	cps
Scandium	45-1	8350948	8355607	8351523	8352693	0.03	cps
Scandium	45-2	142054	142599	141525	142059	0.38	cps
Selenium	82-1	867	823	840	843	2.59	cps
Selenium	77-2	17	7	27	17	59.99	cps
Selenium	78-2	60	50	47	52	13.28	cps
Silicon	28-1	387976	387794	390187	388652	0.34	cps
Silver	107-1	6131	6408	6278	6273	2.21	cps
Silver	109-1	5588	5288	5881	5586	5.31	cps
Sodium	23-2	96453	97932	96768	97051	0.80	cps
Strontium	86-1	1960	1803	2024	1929	5.87	cps
Strontium	88-1	13867	14468	14314	14216	2.19	cps
Sulfur	34-1	371249	373754	371840	372281	0.35	cps
Terbium	159-1	14183596	14085881	13989742	14086406	0.69	cps
Terbium	159-2	4482705	4451883	4414875	4449821	0.76	cps
Thallium	203-1	5114	4794	5224	5044	4.43	cps
Thallium	205-1	12089	11932	11902	11975	0.84	cps
Tin	118-1	5024	4768	5024	4939	3.00	cps
Titanium	47-1	1063	957	1063	1028	5.99	cps
Uranium	238-1	14926	15089	15166	15060	0.81	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-01 Instrumnet Name : P8
Client Sample ID : LOD-MDL-SOIL-01-QT4- Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:01:47 DataFile Name : 021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	847	810	640	766	14.40	cps
Ytterbium	172-1	90	83	77	83	8.00	cps
Ytterbium	172-2	40	27	20	29	35.25	cps
Ytterbium	176-1	1743	1820	1723	1762	2.90	cps
Ytterbium	176-2	220	273	297	263	14.92	cps
Yttrium	89-1	20475121	20247132	20217313	20313189	0.69	cps
Yttrium	89-2	1327227	1321520	1324226	1324325	0.22	cps
Zinc	66-2	610	617	690	639	6.95	cps
Zirconium	90-1	8756	8790	8459	8668	2.10	cps
Zirconium	91-1	2097	1873	2044	2005	5.82	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-02 Instrumnet Name : P8
Client Sample ID : LOQ-SOIL-02-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:13:57 DataFile Name : 024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1093	990	1163	1082	8.06	cps
Antimony	121-1	20729	21126	20763	20873	1.06	cps
Arsenic	75-2	250	163	213	209	20.83	cps
Barium	135-1	26362	27107	26823	26764	1.40	cps
Barium	137-1	46546	46630	45690	46289	1.12	cps
Beryllium	9-1	4465	4428	4466	4453	0.49	cps
Bismuth	209-1	8413544	8409674	8290257	8371159	0.84	cps
Bismuth	209-2	3235112	3217569	3176727	3209802	0.93	cps
Bromine	81-1	5751	5581	5661	5665	1.50	cps
Cadmium	108-1	180	247	283	237	22.14	cps
Cadmium	106-1	6325	6462	6572	6453	1.92	cps
Cadmium	111-1	3979	3903	3980	3954	1.11	cps
Calcium	43-1	21693	22190	22090	21991	1.20	cps
Calcium	44-1	357321	357395	356902	357206	0.07	cps
Carbon	12-1	2786175	2811903	2818519	2805533	0.61	cps
Carbon	12-2	18552	18355	18395	18434	0.56	cps
Chlorine	35-1	112670	113168	109799	111879	1.63	cps
Chlorine	35-2	427	357	450	411	11.82	cps
Chromium	52-2	5061	5124	4918	5034	2.10	cps
Cobalt	59-2	4597	4637	4728	4654	1.43	cps
Copper	63-2	9633	9427	9296	9452	1.80	cps
Dysprosium	156-1	60	60	90	70	24.74	cps
Dysprosium	156-2	7	7	10	8	24.71	cps
Erbium	164-1	40	67	63	57	25.64	cps
Erbium	164-2	13	20	10	14	35.26	cps
Gadolinium	160-1	30	43	43	39	19.79	cps
Gadolinium	160-2	7	13	10	10	33.30	cps
Holmium	165-1	13470458	13439126	13503554	13471046	0.24	cps
Holmium	165-2	4448407	4463720	4422159	4444762	0.47	cps
Indium	115-1	10646790	10613158	10678171	10646040	0.31	cps
Indium	115-2	996790	1001582	1004599	1000991	0.39	cps
Iron	54-2	5494	5254	5324	5358	2.30	cps
Iron	56-2	95020	94047	93785	94284	0.69	cps
Iron	57-2	2520	2340	2254	2371	5.74	cps
Krypton	83-1	117	127	197	147	29.72	cps
Lead	206-1	9657	9764	9687	9703	0.57	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-02 Instrumnet Name : P8
Client Sample ID : LOQ-SOIL-02-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:13:57 DataFile Name : 024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8630	8590	8810	8676	1.35	cps
Lead	208-1	38953	39360	39728	39347	0.98	cps
Lithium	6-1	6342602	6360704	6591878	6431728	2.16	cps
Magnesium	24-2	88758	87065	89254	88359	1.30	cps
Manganese	55-2	1257	1277	1237	1257	1.59	cps
Molybdenum	94-1	22452	22308	22388	22383	0.32	cps
Molybdenum	95-1	27337	27193	27070	27200	0.49	cps
Molybdenum	96-1	29314	30073	29728	29705	1.28	cps
Molybdenum	97-1	16623	16627	17074	16775	1.54	cps
Molybdenum	98-1	43471	42813	44200	43495	1.60	cps
Neodymium	150-1	13	27	7	16	65.47	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	2200	2130	2117	2149	2.08	cps
Phosphorus	31-2	117	100	177	131	30.76	cps
Potassium	39-2	55573	54459	54365	54799	1.23	cps
Rhodium	103-1	9864040	9913084	9973824	9916983	0.55	cps
Rhodium	103-2	3652940	3649807	3668745	3657164	0.28	cps
Scandium	45-1	8161423	8166251	8056626	8128100	0.76	cps
Scandium	45-2	138769	139179	137857	138602	0.49	cps
Selenium	82-1	863	807	727	799	8.59	cps
Selenium	77-2	10	10	23	14	53.28	cps
Selenium	78-2	53	60	43	52	16.07	cps
Silicon	28-1	430326	431365	430333	430674	0.14	cps
Silver	107-1	13473	13110	14031	13538	3.43	cps
Silver	109-1	12506	13083	13103	12897	2.63	cps
Sodium	23-2	193464	191573	191735	192257	0.55	cps
Strontium	86-1	4167	3887	3884	3979	4.09	cps
Strontium	88-1	31870	33113	32772	32585	1.97	cps
Sulfur	34-1	363954	363655	363483	363697	0.07	cps
Terbium	159-1	13708308	13871700	13811699	13797236	0.60	cps
Terbium	159-2	4341388	4307738	4360786	4336637	0.62	cps
Thallium	203-1	10761	11118	11001	10960	1.66	cps
Thallium	205-1	25832	25508	25746	25695	0.65	cps
Tin	118-1	46047	45719	46388	46052	0.73	cps
Titanium	47-1	8910	9116	9176	9067	1.54	cps
Uranium	238-1	32846	33163	33601	33203	1.14	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-02 Instrumnet Name : P8
Client Sample ID : LOQ-SOIL-02-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:13:57 DataFile Name : 024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8763	8599	8623	8662	1.02	cps
Ytterbium	172-1	63	83	97	81	20.69	cps
Ytterbium	172-2	33	30	30	31	6.18	cps
Ytterbium	176-1	1857	1723	1657	1746	5.83	cps
Ytterbium	176-2	253	217	287	252	13.88	cps
Yttrium	89-1	19669596	19604416	19722538	19665516	0.30	cps
Yttrium	89-2	1293186	1298649	1314270	1302035	0.84	cps
Zinc	66-2	2084	2177	2034	2098	3.47	cps
Zirconium	90-1	19804	19614	19567	19662	0.64	cps
Zirconium	91-1	4171	4267	4394	4277	2.62	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-16 Instrumnet Name : P8
Client Sample ID : LLOQ-SOIL-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:17:22 DataFile Name : 025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1110	967	1007	1028	7.20	cps
Antimony	121-1	20349	20319	20706	20458	1.05	cps
Arsenic	75-2	213	230	173	206	14.17	cps
Barium	135-1	26623	27464	27541	27210	1.87	cps
Barium	137-1	46299	45580	46265	46048	0.88	cps
Beryllium	9-1	4431	4465	4229	4375	2.92	cps
Bismuth	209-1	8231721	8440223	8351334	8341093	1.25	cps
Bismuth	209-2	3215440	3190229	3212601	3206090	0.43	cps
Bromine	81-1	5575	5504	5801	5627	2.76	cps
Cadmium	108-1	283	247	247	259	8.18	cps
Cadmium	106-1	6452	6368	6305	6375	1.15	cps
Cadmium	111-1	3899	3805	3992	3899	2.40	cps
Calcium	43-1	22177	22761	21777	22238	2.23	cps
Calcium	44-1	356526	357940	358171	357546	0.25	cps
Carbon	12-1	2768574	2774265	2730953	2757931	0.85	cps
Carbon	12-2	18171	18058	18548	18259	1.41	cps
Chlorine	35-1	99952	98978	98875	99268	0.60	cps
Chlorine	35-2	410	383	340	378	9.35	cps
Chromium	52-2	4784	5048	5031	4954	2.98	cps
Cobalt	59-2	4487	4424	4427	4446	0.80	cps
Copper	63-2	9637	9750	9593	9660	0.84	cps
Dysprosium	156-1	103	70	57	77	31.35	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	70	63	60	64	7.90	cps
Erbium	164-2	37	20	20	26	37.66	cps
Gadolinium	160-1	50	20	57	42	46.26	cps
Gadolinium	160-2	10	7	3	7	50.03	cps
Holmium	165-1	13464434	13604971	13431926	13500444	0.68	cps
Holmium	165-2	4506297	4499000	4537181	4514159	0.45	cps
Indium	115-1	10517674	10837581	10710668	10688641	1.51	cps
Indium	115-2	1001270	999978	1002013	1001087	0.10	cps
Iron	54-2	5268	5341	5108	5239	2.28	cps
Iron	56-2	92571	92957	92906	92811	0.23	cps
Iron	57-2	2207	2417	2300	2308	4.56	cps
Krypton	83-1	153	153	160	156	2.47	cps
Lead	206-1	9887	9957	9687	9844	1.42	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-16 Instrumnet Name : P8
Client Sample ID : LLOQ-SOIL-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:17:22 DataFile Name : 025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8693	8643	8570	8635	0.72	cps
Lead	208-1	39971	39868	38826	39555	1.60	cps
Lithium	6-1	6387497	6344876	6504550	6412307	1.29	cps
Magnesium	24-2	90039	88315	88878	89077	0.99	cps
Manganese	55-2	1153	1203	1170	1176	2.17	cps
Molybdenum	94-1	22815	22785	22405	22669	1.01	cps
Molybdenum	95-1	27187	27621	26749	27185	1.60	cps
Molybdenum	96-1	30236	29952	29728	29972	0.85	cps
Molybdenum	97-1	16497	17314	16547	16786	2.73	cps
Molybdenum	98-1	43281	43384	44200	43622	1.15	cps
Neodymium	150-1	17	37	20	24	43.83	cps
Neodymium	150-2	7	0	7	4	86.60	cps
Nickel	60-2	2220	2364	2127	2237	5.33	cps
Phosphorus	31-2	113	93	120	109	12.75	cps
Potassium	39-2	54355	54693	54660	54569	0.34	cps
Rhodium	103-1	9907870	9883626	9943497	9911665	0.30	cps
Rhodium	103-2	3691132	3651033	3666120	3669428	0.55	cps
Scandium	45-1	8004403	8170335	8077650	8084129	1.03	cps
Scandium	45-2	138513	138281	138755	138516	0.17	cps
Selenium	82-1	870	763	857	830	7.00	cps
Selenium	77-2	30	23	17	23	28.56	cps
Selenium	78-2	73	33	47	51	39.85	cps
Silicon	28-1	425762	428409	427350	427173	0.31	cps
Silver	107-1	13407	13437	13530	13458	0.48	cps
Silver	109-1	12853	12649	12606	12703	1.04	cps
Sodium	23-2	191564	189720	189355	190213	0.62	cps
Strontium	86-1	4001	3981	4034	4005	0.67	cps
Strontium	88-1	32648	33096	32929	32891	0.69	cps
Sulfur	34-1	355052	353493	349932	352826	0.74	cps
Terbium	159-1	13616558	13689650	13673656	13659955	0.28	cps
Terbium	159-2	4370458	4365239	4333450	4356382	0.46	cps
Thallium	203-1	10955	11238	11018	11070	1.34	cps
Thallium	205-1	26250	25836	26036	26041	0.80	cps
Tin	118-1	45529	46331	45653	45838	0.94	cps
Titanium	47-1	9110	8749	8843	8901	2.10	cps
Uranium	238-1	33848	32695	33130	33224	1.75	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-16 Instrumnet Name : P8
Client Sample ID : LLOQ-SOIL-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:17:22 DataFile Name : 025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8803	8586	8699	8696	1.25	cps
Ytterbium	172-1	53	100	73	76	30.99	cps
Ytterbium	172-2	20	27	13	20	33.35	cps
Ytterbium	176-1	1633	1843	1850	1776	6.94	cps
Ytterbium	176-2	250	233	240	241	3.48	cps
Yttrium	89-1	19580387	19972681	19913406	19822158	1.07	cps
Yttrium	89-2	1290363	1292690	1292386	1291813	0.10	cps
Zinc	66-2	2327	2297	2127	2250	4.79	cps
Zirconium	90-1	19370	19076	19741	19396	1.72	cps
Zirconium	91-1	4347	4251	4434	4344	2.11	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-07 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-01-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:20:45 DataFile Name : 026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	573	570	507	550	6.83	cps
Antimony	121-1	4551	4421	4604	4525	2.08	cps
Arsenic	75-2	97	70	63	77	23.01	cps
Barium	135-1	6101	6098	5771	5990	3.17	cps
Barium	137-1	10204	10538	10514	10419	1.79	cps
Beryllium	9-1	2000	2050	2066	2039	1.69	cps
Bismuth	209-1	8455858	8377367	8275071	8369432	1.08	cps
Bismuth	209-2	3331027	3278437	3237083	3282183	1.43	cps
Bromine	81-1	5578	5628	5528	5578	0.90	cps
Cadmium	108-1	163	133	113	137	18.41	cps
Cadmium	106-1	6198	6408	6081	6229	2.66	cps
Cadmium	111-1	2342	2398	2234	2325	3.60	cps
Calcium	43-1	9620	9663	9170	9484	2.88	cps
Calcium	44-1	155288	155493	154530	155104	0.33	cps
Carbon	12-1	2742095	2758556	2801852	2767501	1.12	cps
Carbon	12-2	18565	18775	19082	18808	1.38	cps
Chlorine	35-1	93905	94241	94448	94198	0.29	cps
Chlorine	35-2	420	410	423	418	1.66	cps
Chromium	52-2	1410	1373	1457	1413	2.96	cps
Cobalt	59-2	1810	2017	1937	1921	5.42	cps
Copper	63-2	5281	5348	5638	5422	3.50	cps
Dysprosium	156-1	53	70	73	66	16.35	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	60	57	50	56	9.17	cps
Erbium	164-2	33	20	23	26	27.15	cps
Gadolinium	160-1	43	67	37	49	32.22	cps
Gadolinium	160-2	0	10	3	4	114.60	cps
Holmium	165-1	13283436	13278423	13433396	13331752	0.66	cps
Holmium	165-2	4652204	4573995	4487751	4571317	1.80	cps
Indium	115-1	10616047	10592879	10569636	10592854	0.22	cps
Indium	115-2	1041376	1005907	998356	1015213	2.26	cps
Iron	54-2	3687	3637	3791	3705	2.11	cps
Iron	56-2	65379	65757	65838	65658	0.37	cps
Iron	57-2	1627	1767	1770	1721	4.75	cps
Krypton	83-1	110	123	150	128	15.94	cps
Lead	206-1	5291	5334	5131	5252	2.04	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-07 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-01-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:20:45 DataFile Name : 026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4484	4267	4261	4337	2.93	cps
Lead	208-1	20803	20510	19856	20390	2.38	cps
Lithium	6-1	6288264	6502160	6488827	6426417	1.86	cps
Magnesium	24-2	37669	38324	38354	38115	1.02	cps
Manganese	55-2	1023	1113	1093	1077	4.39	cps
Molybdenum	94-1	4304	4681	4848	4611	6.04	cps
Molybdenum	95-1	2537	2484	2610	2544	2.50	cps
Molybdenum	96-1	3277	3137	3287	3234	2.59	cps
Molybdenum	97-1	1497	1533	1477	1502	1.91	cps
Molybdenum	98-1	3857	4057	3951	3955	2.53	cps
Neodymium	150-1	10	30	37	26	54.31	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1547	1440	1480	1489	3.62	cps
Phosphorus	31-2	87	77	73	79	8.80	cps
Potassium	39-2	19690	19019	19149	19286	1.84	cps
Rhodium	103-1	9902309	9683906	9691136	9759117	1.27	cps
Rhodium	103-2	3836878	3713675	3643927	3731493	2.62	cps
Scandium	45-1	8142883	8064556	8017890	8075109	0.78	cps
Scandium	45-2	144492	139997	138459	140983	2.22	cps
Selenium	82-1	860	830	827	839	2.19	cps
Selenium	77-2	7	20	20	16	49.47	cps
Selenium	78-2	57	47	57	53	10.82	cps
Silicon	28-1	378359	375857	377685	377301	0.34	cps
Silver	107-1	6308	6332	5895	6178	3.98	cps
Silver	109-1	5958	5751	5881	5864	1.78	cps
Sodium	23-2	93255	94718	93430	93801	0.85	cps
Strontium	86-1	2000	1923	1997	1973	2.20	cps
Strontium	88-1	14521	14014	15018	14518	3.46	cps
Sulfur	34-1	350462	355235	357373	354356	1.00	cps
Terbium	159-1	13943613	13633620	13661272	13746169	1.25	cps
Terbium	159-2	4522925	4355567	4329982	4402825	2.38	cps
Thallium	203-1	4704	4951	5088	4914	3.95	cps
Thallium	205-1	11699	12066	11278	11681	3.37	cps
Tin	118-1	5254	5081	4988	5108	2.65	cps
Titanium	47-1	970	883	897	917	5.09	cps
Uranium	238-1	14628	15106	14655	14796	1.81	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-07 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-01-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:20:45 DataFile Name : 026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	823	667	760	750	10.51	cps
Ytterbium	172-1	57	90	67	71	24.05	cps
Ytterbium	172-2	40	17	33	30	40.05	cps
Ytterbium	176-1	1720	1720	1837	1759	3.83	cps
Ytterbium	176-2	267	273	267	269	1.43	cps
Yttrium	89-1	19578890	19653740	19301100	19511243	0.95	cps
Yttrium	89-2	1413417	1298353	1299790	1337187	4.94	cps
Zinc	66-2	650	657	557	621	9.00	cps
Zirconium	90-1	8523	8759	8686	8656	1.40	cps
Zirconium	91-1	1990	1893	1970	1951	2.62	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-08 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-02-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:26:10 DataFile Name : 027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1073	1100	1010	1061	4.36	cps
Antimony	121-1	19921	20602	20302	20275	1.68	cps
Arsenic	75-2	230	213	197	213	7.81	cps
Barium	135-1	26756	26426	25982	26388	1.47	cps
Barium	137-1	45316	46450	46439	46068	1.41	cps
Beryllium	9-1	4370	4268	4378	4338	1.42	cps
Bismuth	209-1	8529229	8624235	8459924	8537796	0.97	cps
Bismuth	209-2	3194644	3225355	3246367	3222122	0.81	cps
Bromine	81-1	5655	5925	5608	5729	2.99	cps
Cadmium	108-1	280	247	223	250	11.39	cps
Cadmium	106-1	6478	6682	6565	6575	1.55	cps
Cadmium	111-1	3797	4014	4160	3990	4.59	cps
Calcium	43-1	21900	22565	22030	22165	1.59	cps
Calcium	44-1	357075	354814	357169	356353	0.37	cps
Carbon	12-1	2671568	2697915	2768971	2712818	1.86	cps
Carbon	12-2	17941	18432	17998	18123	1.48	cps
Chlorine	35-1	85752	86268	86999	86340	0.73	cps
Chlorine	35-2	350	323	343	339	4.10	cps
Chromium	52-2	5101	5098	4814	5004	3.29	cps
Cobalt	59-2	4547	4361	4657	4522	3.32	cps
Copper	63-2	10190	10020	9914	10041	1.39	cps
Dysprosium	156-1	60	77	57	64	16.63	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	67	77	43	62	27.50	cps
Erbium	164-2	7	23	23	18	54.11	cps
Gadolinium	160-1	47	27	57	43	35.25	cps
Gadolinium	160-2	10	7	10	9	21.63	cps
Holmium	165-1	13774362	13727528	13397177	13633022	1.51	cps
Holmium	165-2	4470129	4500090	4515459	4495226	0.51	cps
Indium	115-1	10908255	10719787	10749734	10792592	0.94	cps
Indium	115-2	1002792	1002541	1003262	1002865	0.04	cps
Iron	54-2	5164	5211	4998	5124	2.19	cps
Iron	56-2	92323	91618	93202	92381	0.86	cps
Iron	57-2	2334	2434	2430	2399	2.37	cps
Krypton	83-1	153	157	173	161	6.65	cps
Lead	206-1	9607	10061	9654	9774	2.55	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-08 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-02-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:26:10 DataFile Name : 027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8800	8743	9117	8886	2.27	cps
Lead	208-1	38876	39240	39584	39233	0.90	cps
Lithium	6-1	6561902	6444662	6365910	6457491	1.53	cps
Magnesium	24-2	89224	88801	88319	88781	0.51	cps
Manganese	55-2	1227	1243	1190	1220	2.24	cps
Molybdenum	94-1	22328	22498	22916	22581	1.34	cps
Molybdenum	95-1	26816	27043	27273	27044	0.85	cps
Molybdenum	96-1	29839	29916	29862	29872	0.13	cps
Molybdenum	97-1	16667	17254	15946	16622	3.94	cps
Molybdenum	98-1	43217	42913	44317	43482	1.70	cps
Neodymium	150-1	23	10	33	22	52.68	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	2067	2224	2197	2162	3.88	cps
Phosphorus	31-2	100	117	90	102	13.18	cps
Potassium	39-2	54369	53602	53960	53977	0.71	cps
Rhodium	103-1	10036875	9963952	9953577	9984802	0.45	cps
Rhodium	103-2	3729498	3649807	3687351	3688885	1.08	cps
Scandium	45-1	8207401	8138294	8212916	8186204	0.51	cps
Scandium	45-2	138079	139478	138331	138630	0.54	cps
Selenium	82-1	773	1023	787	861	16.33	cps
Selenium	77-2	20	20	17	19	10.18	cps
Selenium	78-2	40	93	33	56	59.20	cps
Silicon	28-1	425362	424748	425758	425289	0.12	cps
Silver	107-1	12956	13423	13020	13133	1.93	cps
Silver	109-1	12566	12636	12492	12565	0.57	cps
Sodium	23-2	192174	191429	190088	191230	0.55	cps
Strontium	86-1	3897	4147	4054	4033	3.13	cps
Strontium	88-1	32708	32986	33146	32947	0.67	cps
Sulfur	34-1	359758	362178	361615	361183	0.35	cps
Terbium	159-1	14072244	13981075	13877756	13977025	0.70	cps
Terbium	159-2	4396079	4322227	4387301	4368536	0.92	cps
Thallium	203-1	10831	10951	11205	10996	1.73	cps
Thallium	205-1	26233	26561	26120	26304	0.87	cps
Tin	118-1	45321	46157	46793	46091	1.60	cps
Titanium	47-1	9016	8953	8993	8987	0.36	cps
Uranium	238-1	33110	33467	32769	33115	1.05	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-08 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-02-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:26:10 DataFile Name : 027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8963	8353	8766	8694	3.58	cps
Ytterbium	172-1	80	70	73	74	6.84	cps
Ytterbium	172-2	13	23	23	20	28.87	cps
Ytterbium	176-1	1793	1713	1827	1778	3.28	cps
Ytterbium	176-2	227	250	267	248	8.11	cps
Yttrium	89-1	19775547	19879311	19480487	19711782	1.05	cps
Yttrium	89-2	1295013	1294640	1289450	1293034	0.24	cps
Zinc	66-2	2277	2204	2164	2215	2.60	cps
Zirconium	90-1	19904	19147	19444	19498	1.96	cps
Zirconium	91-1	3901	4074	4364	4113	5.69	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-17 Instrumnet Name : P8
Client Sample ID : LLOQ-WATER-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:29:35 DataFile Name : 028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1060	980	997	1012	4.17	cps
Antimony	121-1	20512	20766	21203	20827	1.68	cps
Arsenic	75-2	197	167	177	180	8.49	cps
Barium	135-1	26713	27107	27134	26985	0.87	cps
Barium	137-1	46590	47008	46265	46621	0.80	cps
Beryllium	9-1	4476	4381	4446	4435	1.10	cps
Bismuth	209-1	8494596	8520571	8517189	8510785	0.17	cps
Bismuth	209-2	3253226	3210808	3201090	3221708	0.86	cps
Bromine	81-1	5508	5928	5411	5616	4.89	cps
Cadmium	108-1	230	227	267	241	9.21	cps
Cadmium	106-1	6585	6645	6505	6578	1.07	cps
Cadmium	111-1	3856	3897	3828	3861	0.90	cps
Calcium	43-1	22337	21903	22107	22116	0.98	cps
Calcium	44-1	356796	358723	360666	358728	0.54	cps
Carbon	12-1	2652860	2667595	2695388	2671948	0.81	cps
Carbon	12-2	17694	17457	18408	17853	2.77	cps
Chlorine	35-1	83277	83197	82812	83095	0.30	cps
Chlorine	35-2	290	283	260	278	5.67	cps
Chromium	52-2	5061	5308	4844	5071	4.57	cps
Cobalt	59-2	4511	4464	4414	4463	1.08	cps
Copper	63-2	9633	10084	9677	9798	2.54	cps
Dysprosium	156-1	53	103	107	88	34.04	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	63	70	63	66	5.87	cps
Erbium	164-2	27	13	17	19	36.75	cps
Gadolinium	160-1	47	27	30	34	31.11	cps
Gadolinium	160-2	13	13	13	13	0.00	cps
Holmium	165-1	13608626	13549285	13586862	13581591	0.22	cps
Holmium	165-2	4589862	4434498	4522700	4515686	1.73	cps
Indium	115-1	10741959	10693856	10767219	10734344	0.35	cps
Indium	115-2	1008752	991258	997677	999229	0.89	cps
Iron	54-2	5411	5311	5271	5331	1.35	cps
Iron	56-2	94336	92725	94467	93843	1.03	cps
Iron	57-2	2270	2154	2390	2271	5.21	cps
Krypton	83-1	97	130	120	116	14.80	cps
Lead	206-1	9624	9877	9957	9819	1.77	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-17 Instrumnet Name : P8
Client Sample ID : LLOQ-WATER-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:29:35 DataFile Name : 028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8830	8446	8683	8653	2.24	cps
Lead	208-1	39344	39130	39437	39304	0.40	cps
Lithium	6-1	6488471	6335903	6415980	6413452	1.19	cps
Magnesium	24-2	91249	89767	89881	90299	0.91	cps
Manganese	55-2	1253	1240	1227	1240	1.08	cps
Molybdenum	94-1	22538	23209	23043	22930	1.52	cps
Molybdenum	95-1	27003	27961	27517	27494	1.74	cps
Molybdenum	96-1	29959	30256	30226	30147	0.54	cps
Molybdenum	97-1	16727	17324	17021	17024	1.75	cps
Molybdenum	98-1	43749	44364	43545	43886	0.97	cps
Neodymium	150-1	10	13	17	13	25.01	cps
Neodymium	150-2	7	3	3	4	43.40	cps
Nickel	60-2	2304	2254	2240	2266	1.47	cps
Phosphorus	31-2	100	147	87	111	28.35	cps
Potassium	39-2	54251	53887	53649	53929	0.56	cps
Rhodium	103-1	9997685	9953490	9861955	9937710	0.70	cps
Rhodium	103-2	3679580	3663880	3625338	3656266	0.76	cps
Scandium	45-1	8337587	8170447	8236551	8248195	1.02	cps
Scandium	45-2	137941	137652	138550	138048	0.33	cps
Selenium	82-1	900	933	893	909	2.36	cps
Selenium	77-2	17	10	30	19	53.91	cps
Selenium	78-2	53	50	53	52	3.68	cps
Silicon	28-1	425180	427197	426325	426234	0.24	cps
Silver	107-1	13373	13960	13961	13765	2.46	cps
Silver	109-1	12726	12869	13417	13004	2.80	cps
Sodium	23-2	191237	191871	191030	191380	0.23	cps
Strontium	86-1	3954	4004	4034	3997	1.01	cps
Strontium	88-1	33831	33123	32605	33186	1.85	cps
Sulfur	34-1	361233	361900	364307	362480	0.45	cps
Terbium	159-1	13972335	13919769	13875598	13922567	0.35	cps
Terbium	159-2	4367246	4319143	4273686	4320025	1.08	cps
Thallium	203-1	10661	10981	11138	10927	2.23	cps
Thallium	205-1	25913	26694	26731	26446	1.75	cps
Tin	118-1	45438	46158	46111	45902	0.88	cps
Titanium	47-1	9343	8776	9226	9115	3.29	cps
Uranium	238-1	33390	33534	33778	33568	0.58	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-17 Instrumnet Name : P8
Client Sample ID : LLOQ-WATER-QT4-2024 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:29:35 DataFile Name : 028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9073	8876	8773	8907	1.71	cps
Ytterbium	172-1	80	100	60	80	25.00	cps
Ytterbium	172-2	17	40	40	32	41.80	cps
Ytterbium	176-1	1760	1820	1773	1785	1.77	cps
Ytterbium	176-2	223	217	317	252	22.17	cps
Yttrium	89-1	19767866	19629004	19538726	19645198	0.59	cps
Yttrium	89-2	1296553	1278496	1293863	1289637	0.76	cps
Zinc	66-2	2194	2070	2254	2172	4.30	cps
Zirconium	90-1	19607	20205	20131	19981	1.63	cps
Zirconium	91-1	4334	4464	4471	4423	1.74	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-10 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-04-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:35:21 DataFile Name : 029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517	487	510	504	3.12	cps
Antimony	121-1	4591	4748	4554	4631	2.22	cps
Arsenic	75-2	113	97	120	110	10.92	cps
Barium	135-1	5911	6078	5715	5901	3.08	cps
Barium	137-1	10371	10217	10871	10486	3.26	cps
Beryllium	9-1	2019	2109	2041	2056	2.28	cps
Bismuth	209-1	8748011	8401798	7512557	8220789	7.75	cps
Bismuth	209-2	3299745	3215322	3183547	3232871	1.86	cps
Bromine	81-1	5771	5418	5488	5559	3.37	cps
Cadmium	108-1	123	113	150	129	14.71	cps
Cadmium	106-1	6221	6515	5611	6116	7.54	cps
Cadmium	111-1	2331	2440	2141	2304	6.58	cps
Calcium	43-1	8913	9226	9203	9114	1.92	cps
Calcium	44-1	151926	153024	153586	152845	0.55	cps
Carbon	12-1	2728211	2793873	2769995	2764026	1.20	cps
Carbon	12-2	18372	18802	19072	18749	1.89	cps
Chlorine	35-1	79255	78907	79778	79313	0.55	cps
Chlorine	35-2	273	290	303	289	5.20	cps
Chromium	52-2	1517	1520	1390	1476	5.02	cps
Cobalt	59-2	2030	1987	1940	1986	2.27	cps
Copper	63-2	5354	5394	5544	5431	1.85	cps
Dysprosium	156-1	57	63	80	67	18.03	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	33	60	47	47	28.58	cps
Erbium	164-2	20	23	40	28	38.58	cps
Gadolinium	160-1	30	33	33	32	5.97	cps
Gadolinium	160-2	7	0	0	2	173.21	cps
Holmium	165-1	13680346	13547706	11961060	13063037	7.32	cps
Holmium	165-2	4627766	4527299	4469557	4541541	1.76	cps
Indium	115-1	10841156	10583897	9378744	10267932	7.60	cps
Indium	115-2	1025118	997394	996464	1006325	1.62	cps
Iron	54-2	3774	3894	3677	3782	2.87	cps
Iron	56-2	63477	65134	65211	64608	1.52	cps
Iron	57-2	1667	1630	1750	1682	3.66	cps
Krypton	83-1	147	127	130	134	7.97	cps
Lead	206-1	4881	4984	4818	4894	1.72	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-10 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-04-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:35:21 DataFile Name : 029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4304	4421	4234	4320	2.18	cps
Lead	208-1	19743	19686	19363	19597	1.05	cps
Lithium	6-1	6497757	6438443	5829463	6255221	5.91	cps
Magnesium	24-2	38591	38598	37792	38327	1.21	cps
Manganese	55-2	980	1000	887	956	6.33	cps
Molybdenum	94-1	4381	4431	4441	4417	0.73	cps
Molybdenum	95-1	2424	2390	2427	2414	0.84	cps
Molybdenum	96-1	3317	3160	3107	3195	3.42	cps
Molybdenum	97-1	1383	1383	1547	1438	6.56	cps
Molybdenum	98-1	3927	3894	4087	3969	2.60	cps
Neodymium	150-1	7	7	7	7	0.00	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1350	1450	1420	1407	3.65	cps
Phosphorus	31-2	73	37	83	64	38.12	cps
Potassium	39-2	18919	19099	19303	19107	1.01	cps
Rhodium	103-1	10025527	9850728	8644239	9506831	7.91	cps
Rhodium	103-2	3756172	3592678	3658646	3669166	2.24	cps
Scandium	45-1	8224004	8109705	7063530	7799079	8.20	cps
Scandium	45-2	141505	139465	138113	139695	1.22	cps
Selenium	82-1	803	923	843	857	7.13	cps
Selenium	77-2	10	10	17	12	31.50	cps
Selenium	78-2	70	63	40	58	27.26	cps
Silicon	28-1	373182	375433	373817	374144	0.31	cps
Silver	107-1	5698	6005	5891	5865	2.65	cps
Silver	109-1	5765	5831	5695	5763	1.19	cps
Sodium	23-2	92836	92695	91625	92385	0.72	cps
Strontium	86-1	1913	1743	1823	1827	4.66	cps
Strontium	88-1	14257	14131	14624	14337	1.79	cps
Sulfur	34-1	365841	365309	364328	365159	0.21	cps
Terbium	159-1	13927910	13639622	12039559	13202364	7.71	cps
Terbium	159-2	4425459	4383779	4345622	4384953	0.91	cps
Thallium	203-1	4834	4844	4958	4879	1.40	cps
Thallium	205-1	11412	11732	11919	11688	2.19	cps
Tin	118-1	4774	4791	4878	4814	1.15	cps
Titanium	47-1	927	930	1023	960	5.72	cps
Uranium	238-1	14956	14679	14645	14760	1.15	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-10 Instrumnet Name : P8
Client Sample ID : LOD-MDL-WATER-04-Q1 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:35:21 DataFile Name : 029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	720	793	783	766	5.19	cps
Ytterbium	172-1	87	70	57	71	21.14	cps
Ytterbium	172-2	33	40	10	28	56.71	cps
Ytterbium	176-1	1640	1783	1590	1671	6.01	cps
Ytterbium	176-2	257	203	307	256	20.22	cps
Yttrium	89-1	19895742	19379832	17362243	18879272	7.09	cps
Yttrium	89-2	1313065	1285583	1291915	1296854	1.11	cps
Zinc	66-2	553	557	577	562	2.24	cps
Zirconium	90-1	8426	8583	8373	8460	1.29	cps
Zirconium	91-1	1833	1850	1863	1849	0.81	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-11 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-05-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:38:44 DataFile Name : 030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1077	1050	980	1036	4.82	cps
Antimony	121-1	19768	20148	20439	20118	1.67	cps
Arsenic	75-2	160	240	200	200	20.00	cps
Barium	135-1	26312	26129	26072	26171	0.48	cps
Barium	137-1	45844	45506	46155	45835	0.71	cps
Beryllium	9-1	4408	4315	4423	4382	1.33	cps
Bismuth	209-1	8380436	8490159	8129601	8333398	2.22	cps
Bismuth	209-2	3212325	3218180	3202095	3210867	0.25	cps
Bromine	81-1	5815	5705	5865	5795	1.41	cps
Cadmium	108-1	253	250	207	237	11.00	cps
Cadmium	106-1	6215	6672	6098	6328	4.79	cps
Cadmium	111-1	3789	3800	4215	3935	6.18	cps
Calcium	43-1	22170	22838	21943	22317	2.08	cps
Calcium	44-1	351710	350873	352221	351602	0.19	cps
Carbon	12-1	2884396	2801885	2806650	2830977	1.64	cps
Carbon	12-2	18448	18251	18014	18238	1.19	cps
Chlorine	35-1	77204	77569	77489	77421	0.25	cps
Chlorine	35-2	307	310	267	294	8.19	cps
Chromium	52-2	4991	4964	5018	4991	0.53	cps
Cobalt	59-2	4341	4474	4511	4442	2.01	cps
Copper	63-2	9650	9673	10094	9806	2.55	cps
Dysprosium	156-1	67	53	80	67	20.00	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	93	60	73	76	22.20	cps
Erbium	164-2	7	13	7	9	43.25	cps
Gadolinium	160-1	57	23	47	42	40.52	cps
Gadolinium	160-2	10	10	17	12	31.50	cps
Holmium	165-1	13341197	13748190	12690139	13259842	4.02	cps
Holmium	165-2	4546934	4427109	4493736	4489260	1.34	cps
Indium	115-1	10485127	10711316	10048965	10415136	3.23	cps
Indium	115-2	989138	985354	989885	988126	0.25	cps
Iron	54-2	5254	5224	5301	5260	0.73	cps
Iron	56-2	92199	91165	92889	92084	0.94	cps
Iron	57-2	2180	2164	2247	2197	2.01	cps
Krypton	83-1	130	140	153	141	8.30	cps
Lead	206-1	9337	9607	9734	9559	2.12	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-11 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-05-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:38:44 DataFile Name : 030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8386	8389	8463	8413	0.52	cps
Lead	208-1	38610	38723	39017	38783	0.54	cps
Lithium	6-1	6522505	6604951	6301567	6476341	2.42	cps
Magnesium	24-2	87225	87748	87782	87585	0.36	cps
Manganese	55-2	1133	1260	1173	1189	5.45	cps
Molybdenum	94-1	22071	22472	22568	22370	1.18	cps
Molybdenum	95-1	26509	26893	26689	26697	0.72	cps
Molybdenum	96-1	29461	29735	29812	29669	0.62	cps
Molybdenum	97-1	16076	16794	16407	16425	2.19	cps
Molybdenum	98-1	42107	42171	43605	42628	1.99	cps
Neodymium	150-1	17	20	30	22	31.22	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	2190	2277	2180	2216	2.40	cps
Phosphorus	31-2	100	103	93	99	5.15	cps
Potassium	39-2	54278	53218	54606	54034	1.34	cps
Rhodium	103-1	9707055	10050883	9239871	9665936	4.21	cps
Rhodium	103-2	3609428	3625461	3608833	3614574	0.26	cps
Scandium	45-1	8223330	8222306	7639865	8028500	4.19	cps
Scandium	45-2	136264	136911	138853	137343	0.98	cps
Selenium	82-1	783	807	863	818	5.03	cps
Selenium	77-2	10	10	17	12	31.50	cps
Selenium	78-2	27	33	47	36	28.64	cps
Silicon	28-1	427001	428267	429925	428398	0.34	cps
Silver	107-1	12919	13610	13193	13241	2.63	cps
Silver	109-1	12683	12766	12369	12606	1.66	cps
Sodium	23-2	189689	190365	187039	189031	0.93	cps
Strontium	86-1	4104	3981	4047	4044	1.53	cps
Strontium	88-1	32070	32671	32444	32395	0.94	cps
Sulfur	34-1	367482	370584	369511	369192	0.43	cps
Terbium	159-1	13659459	13828617	13281579	13589885	2.06	cps
Terbium	159-2	4348030	4350257	4304818	4334368	0.59	cps
Thallium	203-1	11035	10221	11228	10828	4.94	cps
Thallium	205-1	25405	25241	24991	25212	0.83	cps
Tin	118-1	44549	45164	44970	44894	0.70	cps
Titanium	47-1	9053	9270	9000	9107	1.57	cps
Uranium	238-1	32411	33083	32755	32750	1.03	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4368-11 Instrumnet Name : P8
Client Sample ID : LOQ-WATER-05-QT4-20 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:38:44 DataFile Name : 030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8763	8453	8599	8605	1.80	cps
Ytterbium	172-1	57	77	77	70	16.49	cps
Ytterbium	172-2	20	13	20	18	21.66	cps
Ytterbium	176-1	1957	1843	1884	1895	3.03	cps
Ytterbium	176-2	227	230	260	239	7.69	cps
Yttrium	89-1	19366066	19862683	18544093	19257614	3.46	cps
Yttrium	89-2	1265518	1271389	1282827	1273245	0.69	cps
Zinc	66-2	2107	2100	2187	2131	2.26	cps
Zirconium	90-1	19053	19237	18859	19050	0.99	cps
Zirconium	91-1	4214	4197	4231	4214	0.40	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P8
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:49:04 DataFile Name : 033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2495338	2516940	2484618	2498965	0.66	cps
Antimony	121-1	5116260	5213783	5098507	5142850	1.21	cps
Arsenic	75-2	93796	92829	93313	93313	0.52	cps
Barium	135-1	6645855	6752663	6620381	6672966	1.05	cps
Barium	137-1	11322365	11587934	11280481	11396927	1.46	cps
Beryllium	9-1	1985201	2042405	1994159	2007255	1.53	cps
Bismuth	209-1	6903626	7114629	6916955	6978403	1.69	cps
Bismuth	209-2	2688644	2686761	2653448	2676284	0.74	cps
Bromine	81-1	5915	5878	5965	5919	0.74	cps
Cadmium	108-1	100023	103122	101439	101528	1.53	cps
Cadmium	106-1	147475	150780	147485	148580	1.28	cps
Cadmium	111-1	1158858	1188831	1165397	1171029	1.35	cps
Calcium	43-1	10171691	10603201	10244913	10339935	2.23	cps
Calcium	44-1	164382811	170103237	167564354	167350134	1.71	cps
Carbon	12-1	2779262	2848261	2856124	2827883	1.50	cps
Carbon	12-2	22614	22517	22791	22641	0.61	cps
Chlorine	35-1	80086	83810	83060	82319	2.39	cps
Chlorine	35-2	327	373	343	348	6.80	cps
Chromium	52-2	1103534	1099704	1096700	1099979	0.31	cps
Cobalt	59-2	2099269	2075887	2071450	2082202	0.72	cps
Copper	63-2	14654471	14718743	14647086	14673433	0.27	cps
Dysprosium	156-1	330	387	353	357	7.99	cps
Dysprosium	156-2	57	73	93	74	24.66	cps
Erbium	164-1	357	307	370	344	9.69	cps
Erbium	164-2	97	123	120	113	12.82	cps
Gadolinium	160-1	290	223	210	241	17.78	cps
Gadolinium	160-2	87	103	83	91	11.76	cps
Holmium	165-1	12465705	12603139	12403370	12490738	0.82	cps
Holmium	165-2	4241118	4212303	4197618	4217013	0.52	cps
Indium	115-1	9234825	9238240	9050029	9174365	1.17	cps
Indium	115-2	886253	878924	878927	881368	0.48	cps
Iron	54-2	11390214	11299534	11232959	11307569	0.70	cps
Iron	56-2	210498324	208439217	207392984	208776841	0.76	cps
Iron	57-2	5272094	5306129	5227292	5268505	0.75	cps
Krypton	83-1	167	177	153	166	7.07	cps
Lead	206-1	21042779	20999794	21012246	21018273	0.11	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P8
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:49:04 DataFile Name : 033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18009642	18337928	17910691	18086087	1.24	cps
Lead	208-1	82849037	84977475	82502255	83442922	1.61	cps
Lithium	6-1	5576765	5624185	5516261	5572404	0.97	cps
Magnesium	24-2	42172169	42602686	42065852	42280236	0.67	cps
Manganese	55-2	5082287	5013310	4997558	5031052	0.90	cps
Molybdenum	94-1	18970992	19436682	19083491	19163722	1.27	cps
Molybdenum	95-1	27337470	28202376	27530010	27689952	1.64	cps
Molybdenum	96-1	29951678	30426212	29965857	30114582	0.90	cps
Molybdenum	97-1	16855830	17150982	16970016	16992276	0.88	cps
Molybdenum	98-1	44027904	45026891	44262314	44439037	1.18	cps
Neodymium	150-1	793	697	747	746	6.48	cps
Neodymium	150-2	60	33	60	51	30.13	cps
Nickel	60-2	517590	519970	516102	517887	0.38	cps
Phosphorus	31-2	21393	21159	22007	21519	2.04	cps
Potassium	39-2	12169264	12000637	11969196	12046366	0.89	cps
Rhodium	103-1	8099371	8131366	7978221	8069653	1.00	cps
Rhodium	103-2	3084677	3045138	3061696	3063837	0.65	cps
Scandium	45-1	7293067	7429372	7269222	7330554	1.18	cps
Scandium	45-2	130798	128245	128478	129174	1.09	cps
Selenium	82-1	80641	82508	79575	80908	1.84	cps
Selenium	77-2	1337	1200	1340	1292	6.18	cps
Selenium	78-2	4704	4647	4564	4639	1.52	cps
Silicon	28-1	32289633	33412294	32305410	32669112	1.97	cps
Silver	107-1	6364660	6640072	6499204	6501312	2.12	cps
Silver	109-1	6114029	6239671	6119310	6157670	1.15	cps
Sodium	23-2	84117694	84004655	83508722	83877024	0.39	cps
Strontium	86-1	1988740	2040213	1959892	1996282	2.04	cps
Strontium	88-1	16745426	17150068	16776332	16890609	1.33	cps
Sulfur	34-1	986747	1009023	993308	996359	1.15	cps
Terbium	159-1	12627214	12865330	12566216	12686254	1.25	cps
Terbium	159-2	4122277	4045798	4024556	4064210	1.26	cps
Thallium	203-1	5412092	5473936	5412737	5432922	0.65	cps
Thallium	205-1	12690739	12912844	12750774	12784786	0.90	cps
Tin	118-1	4429663	4534318	4407302	4457095	1.52	cps
Titanium	47-1	8766305	8957110	8843504	8855640	1.08	cps
Uranium	238-1	17106735	17824191	17216449	17382458	2.22	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV002 Instrumnet Name : P8
Client Sample ID : CCV002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:49:04 DataFile Name : 033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	885390	884632	877594	882539	0.49	cps
Ytterbium	172-1	277	390	363	343	17.26	cps
Ytterbium	172-2	133	163	120	139	15.98	cps
Ytterbium	176-1	26226	26186	25862	26091	0.77	cps
Ytterbium	176-2	8776	8539	8846	8721	1.84	cps
Yttrium	89-1	17639079	17994746	17586218	17740015	1.25	cps
Yttrium	89-2	1212964	1202412	1206372	1207249	0.44	cps
Zinc	66-2	1596477	1613340	1578747	1596188	1.08	cps
Zirconium	90-1	9573603	9909780	9675702	9719695	1.77	cps
Zirconium	91-1	2172172	2224133	2189007	2195104	1.21	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P8
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:52:24 DataFile Name : 034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	173	120	90	128	33.03	cps
Antimony	121-1	1280	1070	1010	1120	12.66	cps
Arsenic	75-2	0	10	3	4	114.60	cps
Barium	135-1	1157	1057	903	1039	12.28	cps
Barium	137-1	1900	1550	1457	1636	14.29	cps
Beryllium	9-1	845	739	732	772	8.19	cps
Bismuth	209-1	8185459	8308355	8365562	8286459	1.11	cps
Bismuth	209-2	3248555	3215736	3184453	3216248	1.00	cps
Bromine	81-1	5831	5908	5951	5897	1.03	cps
Cadmium	108-1	47	30	50	42	25.38	cps
Cadmium	106-1	5908	5995	5988	5964	0.81	cps
Cadmium	111-1	1266	1208	1236	1236	2.33	cps
Calcium	43-1	753	740	693	729	4.32	cps
Calcium	44-1	13483	11268	10978	11910	11.51	cps
Carbon	12-1	2723329	2714260	2779403	2738997	1.29	cps
Carbon	12-2	18255	18151	17871	18092	1.10	cps
Chlorine	35-1	73224	72068	73325	72872	0.96	cps
Chlorine	35-2	307	343	253	301	15.03	cps
Chromium	52-2	530	603	540	558	7.13	cps
Cobalt	59-2	173	210	147	177	18.00	cps
Copper	63-2	2990	3007	2844	2947	3.05	cps
Dysprosium	156-1	67	67	43	59	22.88	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	50	73	70	64	19.58	cps
Erbium	164-2	23	23	13	20	28.87	cps
Gadolinium	160-1	57	37	33	42	29.89	cps
Gadolinium	160-2	10	17	0	9	94.38	cps
Holmium	165-1	13115699	13189788	13112907	13139465	0.33	cps
Holmium	165-2	4574088	4569193	4478571	4540617	1.18	cps
Indium	115-1	10322056	10388519	10586749	10432442	1.32	cps
Indium	115-2	997086	994493	996890	996156	0.14	cps
Iron	54-2	670	647	693	670	3.48	cps
Iron	56-2	10631	10414	9990	10345	3.15	cps
Iron	57-2	267	317	193	259	23.96	cps
Krypton	83-1	117	123	147	129	12.22	cps
Lead	206-1	2730	2267	2430	2476	9.49	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P8
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:52:24 DataFile Name : 034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2457	2117	1777	2117	16.06	cps
Lead	208-1	11082	9505	9075	9887	10.69	cps
Lithium	6-1	6379776	6423043	6365065	6389295	0.47	cps
Magnesium	24-2	1330	1297	1330	1319	1.46	cps
Manganese	55-2	383	467	360	403	13.90	cps
Molybdenum	94-1	1557	1200	1150	1302	17.03	cps
Molybdenum	95-1	1940	1603	1353	1632	18.04	cps
Molybdenum	96-1	1937	1370	1437	1581	19.59	cps
Molybdenum	97-1	1137	807	800	914	21.05	cps
Molybdenum	98-1	2900	2224	1923	2349	21.30	cps
Neodymium	150-1	43	33	13	30	50.92	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	1030	967	840	946	10.23	cps
Phosphorus	31-2	50	47	43	47	7.15	cps
Potassium	39-2	7465	7042	7315	7274	2.95	cps
Rhodium	103-1	9709523	9581491	9839866	9710294	1.33	cps
Rhodium	103-2	3706482	3624831	3586657	3639323	1.68	cps
Scandium	45-1	8005722	8038311	8159795	8067942	1.01	cps
Scandium	45-2	137766	136497	135424	136562	0.86	cps
Selenium	82-1	3	33	30	22	74.00	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	7	3	7	50.03	cps
Silicon	28-1	373163	369777	370816	371252	0.47	cps
Silver	107-1	730	663	717	703	5.02	cps
Silver	109-1	703	623	507	611	16.18	cps
Sodium	23-2	25973	25656	25225	25618	1.47	cps
Strontium	86-1	303	260	263	276	8.75	cps
Strontium	88-1	1163	807	767	912	23.94	cps
Sulfur	34-1	350738	350206	350429	350457	0.08	cps
Terbium	159-1	13329358	13356339	13593947	13426548	1.08	cps
Terbium	159-2	4278978	4353268	4313760	4315335	0.86	cps
Thallium	203-1	623	507	443	524	17.41	cps
Thallium	205-1	1337	1203	1167	1236	7.24	cps
Tin	118-1	1730	1627	1453	1603	8.72	cps
Titanium	47-1	600	420	373	464	25.77	cps
Uranium	238-1	897	597	420	638	37.79	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB002 Instrumnet Name : P8
Client Sample ID : CCB002 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:52:24 DataFile Name : 034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	30	27	26	19.92	cps
Ytterbium	172-1	57	93	67	72	26.24	cps
Ytterbium	172-2	17	33	23	24	34.31	cps
Ytterbium	176-1	1847	1813	1810	1823	1.11	cps
Ytterbium	176-2	287	297	227	270	14.02	cps
Yttrium	89-1	19347760	19168158	19568643	19361521	1.04	cps
Yttrium	89-2	1294546	1277639	1279646	1283944	0.72	cps
Zinc	66-2	313	257	350	307	15.33	cps
Zirconium	90-1	1380	1267	1143	1263	9.37	cps
Zirconium	91-1	290	283	260	278	5.67	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW Instrumnet Name : P8
Client Sample ID : PBW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:59:10 DataFile Name : 036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	103	120	119	12.65	cps
Antimony	121-1	240	257	247	248	3.38	cps
Arsenic	75-2	0	10	17	9	94.38	cps
Barium	135-1	437	410	510	452	11.45	cps
Barium	137-1	743	710	723	726	2.31	cps
Beryllium	9-1	397	396	400	398	0.48	cps
Bismuth	209-1	8103157	8343594	8328642	8258464	1.63	cps
Bismuth	209-2	3226064	3201129	3200124	3209106	0.46	cps
Bromine	81-1	5665	5721	5441	5609	2.64	cps
Cadmium	108-1	23	13	30	22	37.76	cps
Cadmium	106-1	5671	6038	5935	5881	3.22	cps
Cadmium	111-1	1158	1235	1203	1198	3.23	cps
Calcium	43-1	380	407	493	427	13.89	cps
Calcium	44-1	7285	7295	7389	7323	0.78	cps
Carbon	12-1	2667810	2651778	2637530	2652373	0.57	cps
Carbon	12-2	17337	17707	17601	17548	1.09	cps
Chlorine	35-1	62290	61142	61881	61771	0.94	cps
Chlorine	35-2	247	210	250	236	9.42	cps
Chromium	52-2	540	517	497	518	4.19	cps
Cobalt	59-2	150	140	137	142	4.88	cps
Copper	63-2	2997	3084	3040	3040	1.43	cps
Dysprosium	156-1	40	47	57	48	17.56	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	73	27	70	57	45.94	cps
Erbium	164-2	10	20	33	21	55.45	cps
Gadolinium	160-1	30	43	30	34	22.34	cps
Gadolinium	160-2	17	10	10	12	31.50	cps
Holmium	165-1	12873836	13490037	13548202	13304025	2.81	cps
Holmium	165-2	4557260	4588994	4569045	4571766	0.35	cps
Indium	115-1	10319386	10753050	10713568	10595335	2.26	cps
Indium	115-2	1002372	1008921	1018081	1009791	0.78	cps
Iron	54-2	340	367	387	364	6.42	cps
Iron	56-2	5018	5288	5238	5181	2.77	cps
Iron	57-2	153	133	123	137	11.18	cps
Krypton	83-1	100	123	103	109	11.59	cps
Lead	206-1	1543	1527	1453	1508	3.18	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW Instrumnet Name : P8
Client Sample ID : PBW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:59:10 DataFile Name : 036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1283	1220	1260	1255	2.55	cps
Lead	208-1	5857	5767	5671	5765	1.62	cps
Lithium	6-1	6300231	6531134	6497945	6443104	1.94	cps
Magnesium	24-2	443	423	447	438	2.88	cps
Manganese	55-2	307	320	320	316	2.44	cps
Molybdenum	94-1	387	337	403	376	9.24	cps
Molybdenum	95-1	207	217	200	208	4.04	cps
Molybdenum	96-1	377	337	350	354	5.75	cps
Molybdenum	97-1	133	103	127	121	13.01	cps
Molybdenum	98-1	333	317	323	324	2.59	cps
Neodymium	150-1	30	20	23	24	20.83	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	980	1053	1030	1021	3.67	cps
Phosphorus	31-2	20	63	43	42	51.37	cps
Potassium	39-2	6445	6515	6338	6433	1.38	cps
Rhodium	103-1	9531666	9891447	9964161	9795758	2.36	cps
Rhodium	103-2	3688419	3746300	3726802	3720507	0.79	cps
Scandium	45-1	7758613	8127501	8118842	8001652	2.63	cps
Scandium	45-2	138292	138355	138449	138365	0.06	cps
Selenium	82-1	17	-20	67	21	206.06	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	358117	360590	361324	360010	0.47	cps
Silver	107-1	270	277	213	253	13.74	cps
Silver	109-1	163	160	180	168	6.39	cps
Sodium	23-2	19460	19466	19770	19565	0.91	cps
Strontium	86-1	243	237	247	242	2.10	cps
Strontium	88-1	527	503	463	498	6.43	cps
Sulfur	34-1	337796	342212	338497	339502	0.70	cps
Terbium	159-1	13342975	13789070	13821129	13651058	1.96	cps
Terbium	159-2	4351571	4379381	4482413	4404455	1.57	cps
Thallium	203-1	243	300	363	302	19.86	cps
Thallium	205-1	747	613	723	694	10.25	cps
Tin	118-1	1310	2249	1170	1576	37.22	cps
Titanium	47-1	150	157	140	149	5.64	cps
Uranium	238-1	43	43	53	47	12.37	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW Instrumnet Name : P8
Client Sample ID : PBW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 11:59:10 DataFile Name : 036CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	10	10	10	0.00	cps
Ytterbium	172-1	77	83	70	77	8.69	cps
Ytterbium	172-2	7	27	27	20	57.73	cps
Ytterbium	176-1	1620	1713	1720	1685	3.32	cps
Ytterbium	176-2	277	227	257	253	9.93	cps
Yttrium	89-1	18802591	19726288	19807174	19445351	2.87	cps
Yttrium	89-2	1290758	1298479	1301171	1296803	0.42	cps
Zinc	66-2	403	487	497	462	11.09	cps
Zirconium	90-1	663	683	650	666	2.52	cps
Zirconium	91-1	130	200	150	160	22.53	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-03 Instrumnet Name : P8
Client Sample ID : XA102 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:02:34 DataFile Name : 037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	570	473	463	502	11.73	cps
Antimony	121-1	4487	4581	4581	4550	1.18	cps
Arsenic	75-2	93	53	70	72	27.82	cps
Barium	135-1	5881	6242	6288	6137	3.63	cps
Barium	137-1	10374	10528	10848	10583	2.28	cps
Beryllium	9-1	2104	2092	2180	2125	2.24	cps
Bismuth	209-1	8628066	8884139	8507437	8673214	2.22	cps
Bismuth	209-2	3303116	3300987	3271341	3291815	0.54	cps
Bromine	81-1	5931	5521	5551	5668	4.03	cps
Cadmium	108-1	113	107	130	117	10.30	cps
Cadmium	106-1	6478	6645	6412	6512	1.85	cps
Cadmium	111-1	2346	2424	2278	2350	3.12	cps
Calcium	43-1	9163	9693	9577	9478	2.94	cps
Calcium	44-1	154365	152364	153277	153335	0.65	cps
Carbon	12-1	2658807	2744374	2740385	2714522	1.78	cps
Carbon	12-2	17818	18255	18525	18199	1.96	cps
Chlorine	35-1	63431	64101	63190	63574	0.74	cps
Chlorine	35-2	237	207	273	239	13.98	cps
Chromium	52-2	1473	1357	1320	1383	5.79	cps
Cobalt	59-2	2017	1950	1930	1966	2.31	cps
Copper	63-2	5421	5134	5548	5368	3.95	cps
Dysprosium	156-1	40	63	50	51	22.90	cps
Dysprosium	156-2	3	10	3	6	69.34	cps
Erbium	164-1	33	63	50	49	30.75	cps
Erbium	164-2	20	27	27	24	15.75	cps
Gadolinium	160-1	27	23	63	38	58.75	cps
Gadolinium	160-2	13	13	13	13	0.00	cps
Holmium	165-1	13596229	14260861	13609251	13822114	2.75	cps
Holmium	165-2	4671027	4636281	4592892	4633400	0.84	cps
Indium	115-1	10875703	11424771	10783936	11028137	3.14	cps
Indium	115-2	1032708	1023718	1018438	1024955	0.70	cps
Iron	54-2	3781	3877	3707	3788	2.25	cps
Iron	56-2	65911	65446	66383	65914	0.71	cps
Iron	57-2	1593	1640	1670	1635	2.36	cps
Krypton	83-1	130	123	117	123	5.40	cps
Lead	206-1	5091	4881	4958	4977	2.14	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-03 Instrumnet Name : P8
Client Sample ID : XA102 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:02:34 DataFile Name : 037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4207	4344	4367	4306	2.01	cps
Lead	208-1	20003	20183	19956	20047	0.60	cps
Lithium	6-1	6608968	6687166	6568976	6621703	0.91	cps
Magnesium	24-2	37521	38116	38267	37968	1.04	cps
Manganese	55-2	1023	1123	1140	1096	5.76	cps
Molybdenum	94-1	4808	4634	4524	4655	3.07	cps
Molybdenum	95-1	2614	2617	2537	2589	1.75	cps
Molybdenum	96-1	3214	3164	3350	3243	2.98	cps
Molybdenum	97-1	1513	1483	1547	1515	2.09	cps
Molybdenum	98-1	4177	3837	3904	3973	4.54	cps
Neodymium	150-1	20	20	27	22	17.33	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	1470	1393	1477	1447	3.20	cps
Phosphorus	31-2	60	67	40	56	24.98	cps
Potassium	39-2	19490	19283	20001	19591	1.89	cps
Rhodium	103-1	10119495	10668430	9992680	10260202	3.50	cps
Rhodium	103-2	3735956	3766324	3735239	3745839	0.47	cps
Scandium	45-1	8256606	8677339	8173240	8369062	3.23	cps
Scandium	45-2	141451	140290	140065	140602	0.53	cps
Selenium	82-1	827	887	840	851	3.70	cps
Selenium	77-2	30	7	10	16	81.11	cps
Selenium	78-2	57	30	70	52	39.00	cps
Silicon	28-1	368794	370189	367612	368865	0.35	cps
Silver	107-1	6025	6125	6295	6148	2.22	cps
Silver	109-1	5678	5845	5795	5772	1.48	cps
Sodium	23-2	94172	93919	93306	93799	0.47	cps
Strontium	86-1	1807	1907	1817	1843	2.99	cps
Strontium	88-1	14398	14251	14705	14451	1.60	cps
Sulfur	34-1	348184	347608	345129	346974	0.47	cps
Terbium	159-1	13962960	14707806	13834148	14168305	3.33	cps
Terbium	159-2	4505680	4423014	4396991	4441895	1.28	cps
Thallium	203-1	4798	4854	4878	4843	0.85	cps
Thallium	205-1	12002	11492	11792	11762	2.18	cps
Tin	118-1	5251	5124	4941	5105	3.05	cps
Titanium	47-1	1077	883	960	973	10.00	cps
Uranium	238-1	14695	14679	14912	14762	0.88	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-03 Instrumnet Name : P8
Client Sample ID : XA102 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:02:34 DataFile Name : 037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	750	893	890	844	9.69	cps
Ytterbium	172-1	67	73	83	74	11.26	cps
Ytterbium	172-2	30	17	33	27	33.06	cps
Ytterbium	176-1	1710	1950	1813	1825	6.60	cps
Ytterbium	176-2	180	203	253	212	17.66	cps
Yttrium	89-1	20277279	21039681	19925346	20414102	2.79	cps
Yttrium	89-2	1327450	1323369	1311185	1320668	0.64	cps
Zinc	66-2	547	653	543	581	10.77	cps
Zirconium	90-1	8656	8719	8886	8754	1.36	cps
Zirconium	91-1	1873	1807	1900	1860	2.58	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-01 Instrumnet Name : P8
Client Sample ID : XA100 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:06:45 DataFile Name : 038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	497	533	597	542	9.33	cps
Antimony	121-1	4604	4451	4581	4545	1.82	cps
Arsenic	75-2	77	107	77	87	19.98	cps
Barium	135-1	6035	6165	6158	6119	1.20	cps
Barium	137-1	10678	10297	10457	10477	1.82	cps
Beryllium	9-1	2194	2169	2094	2152	2.42	cps
Bismuth	209-1	8759875	8681149	8516232	8652419	1.44	cps
Bismuth	209-2	3342322	3232332	3303589	3292748	1.69	cps
Bromine	81-1	5695	5735	5745	5725	0.46	cps
Cadmium	108-1	107	107	87	100	11.55	cps
Cadmium	106-1	6278	6595	6278	6384	2.87	cps
Cadmium	111-1	2298	2431	2442	2390	3.36	cps
Calcium	43-1	9640	9290	9477	9469	1.85	cps
Calcium	44-1	152714	153206	152741	152887	0.18	cps
Carbon	12-1	2717160	2727129	2748760	2731016	0.59	cps
Carbon	12-2	18151	18652	18956	18586	2.19	cps
Chlorine	35-1	61480	62866	62638	62328	1.19	cps
Chlorine	35-2	210	187	237	211	11.85	cps
Chromium	52-2	1497	1353	1330	1393	6.48	cps
Cobalt	59-2	2010	1964	2107	2027	3.61	cps
Copper	63-2	5474	5471	5184	5377	3.10	cps
Dysprosium	156-1	70	33	53	52	35.16	cps
Dysprosium	156-2	10	3	10	8	49.52	cps
Erbium	164-1	53	87	73	71	23.60	cps
Erbium	164-2	37	30	23	30	22.23	cps
Gadolinium	160-1	40	37	37	38	5.09	cps
Gadolinium	160-2	0	3	10	4	114.60	cps
Holmium	165-1	14102766	13597845	13437675	13712762	2.53	cps
Holmium	165-2	4636097	4645111	4555856	4612354	1.07	cps
Indium	115-1	11209787	10889279	10956156	11018408	1.53	cps
Indium	115-2	1038010	1021969	1006836	1022271	1.52	cps
Iron	54-2	3801	3721	3697	3739	1.45	cps
Iron	56-2	65677	65586	65074	65446	0.50	cps
Iron	57-2	1597	1697	1647	1647	3.04	cps
Krypton	83-1	147	93	147	129	23.89	cps
Lead	206-1	5048	5168	5101	5105	1.18	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-01 Instrumnet Name : P8
Client Sample ID : XA100 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:06:45 DataFile Name : 038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4211	4224	4404	4280	2.52	cps
Lead	208-1	19830	19963	19823	19872	0.40	cps
Lithium	6-1	6684057	6661949	6660989	6668998	0.20	cps
Magnesium	24-2	38631	38407	37899	38313	0.98	cps
Manganese	55-2	1073	1167	1110	1117	4.21	cps
Molybdenum	94-1	4731	4427	4534	4564	3.37	cps
Molybdenum	95-1	2577	2790	2617	2661	4.26	cps
Molybdenum	96-1	3180	3254	3274	3236	1.52	cps
Molybdenum	97-1	1463	1587	1500	1517	4.18	cps
Molybdenum	98-1	3961	4064	4011	4012	1.29	cps
Neodymium	150-1	30	20	23	24	20.83	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1447	1387	1437	1423	2.26	cps
Phosphorus	31-2	57	63	67	62	8.18	cps
Potassium	39-2	20034	19553	19270	19619	1.97	cps
Rhodium	103-1	10242869	10070868	10075874	10129870	0.97	cps
Rhodium	103-2	3805512	3706937	3688804	3733751	1.68	cps
Scandium	45-1	8557272	8364070	8311468	8410937	1.54	cps
Scandium	45-2	141411	139482	138642	139845	1.02	cps
Selenium	82-1	707	943	783	811	14.89	cps
Selenium	77-2	13	7	27	16	65.47	cps
Selenium	78-2	27	60	47	44	37.74	cps
Silicon	28-1	367266	369313	367954	368178	0.28	cps
Silver	107-1	6141	6101	6195	6146	0.76	cps
Silver	109-1	5731	5951	5865	5849	1.90	cps
Sodium	23-2	93785	92729	92984	93166	0.59	cps
Strontium	86-1	1837	1883	1970	1897	3.57	cps
Strontium	88-1	14221	14508	14484	14404	1.11	cps
Sulfur	34-1	351195	350565	352568	351443	0.29	cps
Terbium	159-1	14320660	13770865	14160641	14084055	2.01	cps
Terbium	159-2	4531209	4429784	4382411	4447801	1.71	cps
Thallium	203-1	4948	4961	4811	4907	1.69	cps
Thallium	205-1	11932	11665	12099	11899	1.84	cps
Tin	118-1	5138	5058	4954	5050	1.82	cps
Titanium	47-1	927	890	953	923	3.44	cps
Uranium	238-1	14659	14799	14685	14714	0.51	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : P4476-01 Instrumnet Name : P8
Client Sample ID : XA100 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:06:45 DataFile Name : 038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	740	723	770	744	3.18	cps
Ytterbium	172-1	67	77	63	69	10.08	cps
Ytterbium	172-2	17	30	20	22	31.22	cps
Ytterbium	176-1	1760	1860	1713	1778	4.21	cps
Ytterbium	176-2	190	220	273	228	18.53	cps
Yttrium	89-1	20628653	20146213	20102809	20292559	1.44	cps
Yttrium	89-2	1405011	1305935	1295631	1335526	4.52	cps
Zinc	66-2	610	627	533	590	8.44	cps
Zirconium	90-1	8656	9076	8633	8788	2.84	cps
Zirconium	91-1	1847	2100	1867	1938	7.27	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW Instrumnet Name : P8
Client Sample ID : LCSW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:22:09 DataFile Name : 041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2300	2097	2290	2229	5.14	cps
Antimony	121-1	43362	43088	43476	43309	0.46	cps
Arsenic	75-2	430	387	363	393	8.60	cps
Barium	135-1	55881	56032	55359	55757	0.63	cps
Barium	137-1	96988	95897	95248	96044	0.92	cps
Beryllium	9-1	9244	9165	8992	9134	1.42	cps
Bismuth	209-1	8492759	8255917	8309254	8352643	1.49	cps
Bismuth	209-2	3170734	3178323	3184276	3177778	0.21	cps
Bromine	81-1	5775	5545	5931	5750	3.38	cps
Cadmium	108-1	447	453	493	464	5.43	cps
Cadmium	106-1	6622	6655	6825	6701	1.63	cps
Cadmium	111-1	6720	6582	6884	6728	2.25	cps
Calcium	43-1	45087	45388	44893	45123	0.55	cps
Calcium	44-1	727280	721954	727380	725538	0.43	cps
Carbon	12-1	2674161	2702251	2669114	2681842	0.67	cps
Carbon	12-2	17737	17801	17858	17799	0.34	cps
Chlorine	35-1	1122545	1244032	1310967	1225848	7.79	cps
Chlorine	35-2	5104	5048	5231	5128	1.83	cps
Chromium	52-2	9473	9817	9490	9593	2.02	cps
Cobalt	59-2	9040	8743	9013	8932	1.84	cps
Copper	63-2	17347	17885	17721	17651	1.56	cps
Dysprosium	156-1	53	77	53	61	22.05	cps
Dysprosium	156-2	10	0	7	6	91.64	cps
Erbium	164-1	57	67	73	66	12.79	cps
Erbium	164-2	13	23	17	18	28.64	cps
Gadolinium	160-1	40	43	37	40	8.32	cps
Gadolinium	160-2	7	7	13	9	43.25	cps
Holmium	165-1	13314861	13043906	13207181	13188649	1.03	cps
Holmium	165-2	4442422	4449847	4445654	4445975	0.08	cps
Indium	115-1	10624871	10364220	10434163	10474418	1.29	cps
Indium	115-2	989423	984236	981712	985124	0.40	cps
Iron	54-2	40230	39839	39802	39957	0.59	cps
Iron	56-2	730018	730338	724091	728149	0.48	cps
Iron	57-2	18369	18265	17891	18175	1.38	cps
Krypton	83-1	130	123	120	124	4.09	cps
Lead	206-1	19525	19779	19508	19604	0.77	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW Instrumnet Name : P8
Client Sample ID : LCSW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:22:09 DataFile Name : 041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17171	16798	16955	16975	1.11	cps
Lead	208-1	78156	78681	78825	78554	0.45	cps
Lithium	6-1	6513053	6493939	6411400	6472797	0.83	cps
Magnesium	24-2	174607	175543	175880	175343	0.38	cps
Manganese	55-2	2347	2184	2474	2335	6.23	cps
Molybdenum	94-1	46772	46996	47557	47108	0.86	cps
Molybdenum	95-1	56832	55868	57170	56623	1.19	cps
Molybdenum	96-1	62336	63069	63160	62855	0.72	cps
Molybdenum	97-1	35017	35048	35118	35061	0.15	cps
Molybdenum	98-1	90972	90774	89583	90443	0.83	cps
Neodymium	150-1	23	10	17	17	39.99	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	3257	3487	3510	3418	4.10	cps
Phosphorus	31-2	123	217	147	162	29.94	cps
Potassium	39-2	106812	106002	107436	106750	0.67	cps
Rhodium	103-1	9801041	9520839	9561002	9627627	1.57	cps
Rhodium	103-2	3645117	3623361	3560648	3609709	1.22	cps
Scandium	45-1	8020907	8115347	7955618	8030624	1.00	cps
Scandium	45-2	135491	136070	134304	135288	0.67	cps
Selenium	82-1	1833	1840	1677	1783	5.18	cps
Selenium	77-2	27	43	33	34	24.35	cps
Selenium	78-2	107	73	117	99	22.95	cps
Silicon	28-1	604730	602236	596447	601137	0.71	cps
Silver	107-1	27985	28409	28803	28399	1.44	cps
Silver	109-1	27297	26996	27110	27135	0.56	cps
Sodium	23-2	374137	371836	370149	372040	0.54	cps
Strontium	86-1	8166	7976	8159	8100	1.33	cps
Strontium	88-1	67944	67800	66655	67466	1.05	cps
Sulfur	34-1	362936	358108	358083	359709	0.78	cps
Terbium	159-1	13738245	13509304	13427708	13558419	1.19	cps
Terbium	159-2	4408926	4335348	4276587	4340287	1.53	cps
Thallium	203-1	23204	23902	23184	23430	1.75	cps
Thallium	205-1	54896	54966	55086	54983	0.18	cps
Tin	118-1	94490	94090	93895	94158	0.32	cps
Titanium	47-1	21693	20555	20995	21081	2.72	cps
Uranium	238-1	70923	70209	70588	70573	0.51	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW Instrumnet Name : P8
Client Sample ID : LCSW Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:22:09 DataFile Name : 041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	18562	18332	18722	18539	1.06	cps
Ytterbium	172-1	60	87	57	68	24.26	cps
Ytterbium	172-2	23	30	30	28	13.86	cps
Ytterbium	176-1	1964	1710	1787	1820	7.14	cps
Ytterbium	176-2	260	303	290	284	7.80	cps
Yttrium	89-1	19556818	19250245	19316396	19374486	0.83	cps
Yttrium	89-2	1268155	1280258	1260764	1269726	0.78	cps
Zinc	66-2	3891	4051	3937	3959	2.08	cps
Zirconium	90-1	40579	40375	39954	40302	0.79	cps
Zirconium	91-1	9130	8953	9030	9037	0.98	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS Instrumnet Name : P8
Client Sample ID : PBS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:26:25 DataFile Name : 042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107	87	93	96	10.66	cps
Antimony	121-1	63	97	123	94	31.83	cps
Arsenic	75-2	7	3	0	3	100.05	cps
Barium	135-1	257	277	263	266	3.83	cps
Barium	137-1	413	410	383	402	4.09	cps
Beryllium	9-1	284	239	265	262	8.61	cps
Bismuth	209-1	8363373	8338473	8047943	8249930	2.13	cps
Bismuth	209-2	3377152	3196931	3184158	3252747	3.32	cps
Bromine	81-1	5655	5805	6085	5848	3.73	cps
Cadmium	108-1	47	37	37	40	14.43	cps
Cadmium	106-1	6195	5968	5771	5978	3.55	cps
Cadmium	111-1	1230	1191	1159	1193	2.98	cps
Calcium	43-1	400	410	363	391	6.28	cps
Calcium	44-1	6682	6678	6792	6717	0.96	cps
Carbon	12-1	2652893	2629403	2628899	2637065	0.52	cps
Carbon	12-2	17504	17424	17567	17498	0.41	cps
Chlorine	35-1	141995	135682	130425	136034	4.26	cps
Chlorine	35-2	457	410	450	439	5.75	cps
Chromium	52-2	500	533	477	503	5.66	cps
Cobalt	59-2	83	110	140	111	25.52	cps
Copper	63-2	2710	2710	3087	2836	7.67	cps
Dysprosium	156-1	53	50	43	49	10.42	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	73	63	43	60	25.46	cps
Erbium	164-2	17	17	13	16	12.40	cps
Gadolinium	160-1	27	30	33	30	11.10	cps
Gadolinium	160-2	3	10	17	10	66.70	cps
Holmium	165-1	13446821	13099519	12680037	13075459	2.94	cps
Holmium	165-2	4708856	4464920	4430046	4534608	3.35	cps
Indium	115-1	10683002	10530264	9711324	10308197	5.07	cps
Indium	115-2	1034451	972191	969602	992081	3.70	cps
Iron	54-2	353	353	320	342	5.62	cps
Iron	56-2	4804	4664	4821	4763	1.81	cps
Iron	57-2	80	163	103	116	37.21	cps
Krypton	83-1	140	133	87	120	24.22	cps
Lead	206-1	1040	1120	1117	1092	4.14	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS Instrumnet Name : P8
Client Sample ID : PBS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:26:25 DataFile Name : 042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1027	947	990	988	4.05	cps
Lead	208-1	4407	4380	4547	4445	2.01	cps
Lithium	6-1	6592545	6457307	6134851	6394901	3.68	cps
Magnesium	24-2	383	470	433	429	10.14	cps
Manganese	55-2	207	203	243	218	10.19	cps
Molybdenum	94-1	243	280	307	277	11.49	cps
Molybdenum	95-1	160	150	167	159	5.28	cps
Molybdenum	96-1	207	217	220	214	3.24	cps
Molybdenum	97-1	87	77	57	73	20.83	cps
Molybdenum	98-1	263	207	217	229	13.21	cps
Neodymium	150-1	7	23	27	19	56.72	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1077	900	967	981	9.09	cps
Phosphorus	31-2	43	37	40	40	8.32	cps
Potassium	39-2	6025	6088	6235	6116	1.76	cps
Rhodium	103-1	9767378	9725373	9349794	9614182	2.39	cps
Rhodium	103-2	3815752	3588758	3630274	3678261	3.29	cps
Scandium	45-1	8049482	8038086	7592526	7893365	3.30	cps
Scandium	45-2	142005	133678	133513	136398	3.56	cps
Selenium	82-1	10	-7	47	17	163.73	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	13	6	124.93	cps
Silicon	28-1	354002	353289	353186	353492	0.13	cps
Silver	107-1	220	190	170	193	13.02	cps
Silver	109-1	133	127	137	132	3.85	cps
Sodium	23-2	17788	17594	17944	17775	0.99	cps
Strontium	86-1	270	277	220	256	12.12	cps
Strontium	88-1	597	643	610	617	3.90	cps
Sulfur	34-1	360172	360087	358699	359653	0.23	cps
Terbium	159-1	13945064	13687637	12855139	13495947	4.22	cps
Terbium	159-2	4484785	4245875	4285109	4338590	2.95	cps
Thallium	203-1	253	293	300	282	8.94	cps
Thallium	205-1	763	783	717	754	4.53	cps
Tin	118-1	1297	1193	1303	1265	4.88	cps
Titanium	47-1	140	113	130	128	10.54	cps
Uranium	238-1	40	47	27	38	26.95	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS Instrumnet Name : P8
Client Sample ID : PBS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:26:25 DataFile Name : 042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	3	3	3	0.00	cps
Ytterbium	172-1	57	57	73	62	15.46	cps
Ytterbium	172-2	17	13	27	19	36.75	cps
Ytterbium	176-1	1773	1563	1830	1722	8.16	cps
Ytterbium	176-2	240	193	223	219	10.80	cps
Yttrium	89-1	19502510	19206513	18406481	19038501	2.98	cps
Yttrium	89-2	1392250	1244773	1257315	1298113	6.30	cps
Zinc	66-2	433	363	443	413	10.55	cps
Zirconium	90-1	730	647	513	630	17.35	cps
Zirconium	91-1	173	143	140	152	12.06	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS Instrumnet Name : P8
Client Sample ID : LCSS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:29:47 DataFile Name : 043LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2044	2184	2087	2105	3.41	cps
Antimony	121-1	42121	41670	43272	42354	1.95	cps
Arsenic	75-2	427	363	343	378	11.52	cps
Barium	135-1	53197	53344	54737	53759	1.58	cps
Barium	137-1	93856	93278	95480	94205	1.21	cps
Beryllium	9-1	8964	8922	8992	8959	0.39	cps
Bismuth	209-1	7799140	8518675	7152487	7823434	8.74	cps
Bismuth	209-2	3169749	3114084	3152363	3145399	0.91	cps
Bromine	81-1	5508	5401	5181	5363	3.11	cps
Cadmium	108-1	463	477	397	446	9.62	cps
Cadmium	106-1	6311	6812	5731	6285	8.60	cps
Cadmium	111-1	6669	6486	6490	6548	1.60	cps
Calcium	43-1	42997	43582	43556	43379	0.76	cps
Calcium	44-1	708477	711055	713025	710852	0.32	cps
Carbon	12-1	2703945	2718985	2687963	2703631	0.57	cps
Carbon	12-2	17808	17931	18215	17984	1.16	cps
Chlorine	35-1	1036589	1180733	1300342	1172555	11.26	cps
Chlorine	35-2	5014	5114	4971	5033	1.46	cps
Chromium	52-2	9570	9133	9563	9422	2.66	cps
Cobalt	59-2	8893	8916	8636	8815	1.76	cps
Copper	63-2	17000	17317	17197	17172	0.93	cps
Dysprosium	156-1	60	70	57	62	11.15	cps
Dysprosium	156-2	13	3	3	7	86.65	cps
Erbium	164-1	83	60	57	67	21.79	cps
Erbium	164-2	10	13	27	17	52.93	cps
Gadolinium	160-1	20	57	40	39	47.21	cps
Gadolinium	160-2	13	7	10	10	33.30	cps
Holmium	165-1	12468056	13393009	11518125	12459730	7.52	cps
Holmium	165-2	4385252	4434516	4322597	4380788	1.28	cps
Indium	115-1	10043333	10584173	8974837	9867447	8.30	cps
Indium	115-2	959261	964903	956710	960291	0.44	cps
Iron	54-2	38809	38555	39538	38967	1.31	cps
Iron	56-2	711607	715716	710335	712553	0.39	cps
Iron	57-2	18235	17818	18052	18035	1.16	cps
Krypton	83-1	150	127	100	126	19.93	cps
Lead	206-1	19278	18807	19842	19309	2.68	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS Instrumnet Name : P8
Client Sample ID : LCSS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:29:47 DataFile Name : 043LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16567	16938	17068	16858	1.54	cps
Lead	208-1	76616	77372	79269	77752	1.76	cps
Lithium	6-1	6306157	6342622	5972631	6207137	3.29	cps
Magnesium	24-2	171074	173270	169027	171123	1.24	cps
Manganese	55-2	2347	2134	2307	2262	5.01	cps
Molybdenum	94-1	45284	46039	46210	45844	1.08	cps
Molybdenum	95-1	55256	55688	55500	55481	0.39	cps
Molybdenum	96-1	61161	61361	62302	61608	0.99	cps
Molybdenum	97-1	34282	33651	34677	34203	1.51	cps
Molybdenum	98-1	89131	88097	89560	88929	0.85	cps
Neodymium	150-1	13	23	17	18	28.64	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	3294	3264	3150	3236	2.34	cps
Phosphorus	31-2	147	140	170	152	10.35	cps
Potassium	39-2	103243	103075	102779	103032	0.23	cps
Rhodium	103-1	9056296	9722783	8327992	9035691	7.72	cps
Rhodium	103-2	3533956	3575473	3531786	3547072	0.69	cps
Scandium	45-1	7662826	8106603	6890145	7553191	8.15	cps
Scandium	45-2	131609	132901	133997	132836	0.90	cps
Selenium	82-1	1847	1890	1763	1833	3.51	cps
Selenium	77-2	47	47	23	39	34.65	cps
Selenium	78-2	83	110	120	104	18.15	cps
Silicon	28-1	588487	589413	595013	590971	0.60	cps
Silver	107-1	27320	27982	28122	27808	1.54	cps
Silver	109-1	26582	27027	26693	26767	0.86	cps
Sodium	23-2	365750	370740	363601	366697	1.00	cps
Strontium	86-1	7829	8046	7946	7940	1.37	cps
Strontium	88-1	64669	65288	66909	65622	1.76	cps
Sulfur	34-1	355230	353631	354462	354441	0.23	cps
Terbium	159-1	12898893	13442849	11820464	12720736	6.49	cps
Terbium	159-2	4214834	4221403	4207206	4214481	0.17	cps
Thallium	203-1	22610	22854	23054	22839	0.97	cps
Thallium	205-1	54095	54658	54273	54342	0.53	cps
Tin	118-1	92956	91543	92805	92435	0.84	cps
Titanium	47-1	20585	20722	20371	20559	0.86	cps
Uranium	238-1	69519	69650	69506	69558	0.11	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS Instrumnet Name : P8
Client Sample ID : LCSS Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:29:47 DataFile Name : 043LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	18125	18088	18572	18262	1.48	cps
Ytterbium	172-1	93	97	40	77	41.48	cps
Ytterbium	172-2	30	17	17	21	36.45	cps
Ytterbium	176-1	1663	1857	1627	1716	7.20	cps
Ytterbium	176-2	257	300	300	286	8.76	cps
Yttrium	89-1	18224922	19541555	16596404	18120960	8.14	cps
Yttrium	89-2	1238748	1247247	1237222	1241072	0.44	cps
Zinc	66-2	3837	3821	3754	3804	1.16	cps
Zirconium	90-1	38446	39730	39369	39182	1.69	cps
Zirconium	91-1	8983	8376	8836	8732	3.63	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 6020 Instrumnet Name : P8
Client Sample ID : PBW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:33:13 DataFile Name : 044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	67	97	117	93	26.96	cps
Antimony	121-1	130	120	80	110	24.05	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	177	237	213	209	14.48	cps
Barium	137-1	303	393	350	349	12.90	cps
Beryllium	9-1	226	221	225	224	1.16	cps
Bismuth	209-1	7787198	7812333	8052458	7883996	1.86	cps
Bismuth	209-2	3151555	3121279	3179230	3150688	0.92	cps
Bromine	81-1	5348	5721	5394	5488	3.71	cps
Cadmium	108-1	27	40	10	26	58.81	cps
Cadmium	106-1	5691	5474	5821	5662	3.09	cps
Cadmium	111-1	1143	1097	1221	1153	5.42	cps
Calcium	43-1	410	373	360	381	6.79	cps
Calcium	44-1	6472	6515	6538	6508	0.52	cps
Carbon	12-1	2615544	2635267	2630295	2627036	0.39	cps
Carbon	12-2	17073	17437	17567	17359	1.47	cps
Chlorine	35-1	152036	139599	129550	140395	8.02	cps
Chlorine	35-2	420	517	363	433	17.89	cps
Chromium	52-2	453	457	543	484	10.53	cps
Cobalt	59-2	100	110	93	101	8.30	cps
Copper	63-2	2597	2684	2794	2691	3.66	cps
Dysprosium	156-1	50	33	47	43	20.36	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	60	63	73	66	10.58	cps
Erbium	164-2	17	13	20	17	20.01	cps
Gadolinium	160-1	60	57	30	49	33.63	cps
Gadolinium	160-2	17	3	0	7	132.33	cps
Holmium	165-1	12410368	12297178	12921276	12542940	2.65	cps
Holmium	165-2	4333938	4391126	4470702	4398589	1.56	cps
Indium	115-1	9753730	9718134	10050309	9840724	1.85	cps
Indium	115-2	956978	959035	979477	965163	1.29	cps
Iron	54-2	357	307	303	322	9.27	cps
Iron	56-2	4798	4457	4684	4646	3.73	cps
Iron	57-2	127	93	110	110	15.15	cps
Krypton	83-1	153	93	157	134	26.51	cps
Lead	206-1	1040	1117	1123	1093	4.24	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 6020 Instrumnet Name : P8
Client Sample ID : PBW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:33:13 DataFile Name : 044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1010	1013	887	970	7.44	cps
Lead	208-1	4450	4554	4230	4411	3.74	cps
Lithium	6-1	6199914	6186600	6390345	6258953	1.82	cps
Magnesium	24-2	400	410	400	403	1.43	cps
Manganese	55-2	207	157	230	198	18.94	cps
Molybdenum	94-1	263	230	283	259	10.41	cps
Molybdenum	95-1	177	143	127	149	17.10	cps
Molybdenum	96-1	220	243	203	222	9.04	cps
Molybdenum	97-1	53	77	60	63	18.98	cps
Molybdenum	98-1	210	163	187	187	12.50	cps
Neodymium	150-1	7	17	30	18	65.83	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	963	960	990	971	1.69	cps
Phosphorus	31-2	60	40	47	49	20.83	cps
Potassium	39-2	5568	5821	5728	5706	2.25	cps
Rhodium	103-1	9020878	8940117	9363489	9108161	2.47	cps
Rhodium	103-2	3552369	3549971	3613314	3571885	1.01	cps
Scandium	45-1	7409878	7506072	7799650	7571867	2.68	cps
Scandium	45-2	131767	132137	133712	132538	0.78	cps
Selenium	82-1	-47	20	-7	-11	-302.08	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	0	0	0	0.00	cps
Silicon	28-1	349851	350945	349601	350132	0.20	cps
Silver	107-1	243	270	180	231	20.00	cps
Silver	109-1	183	140	167	163	13.38	cps
Sodium	23-2	16436	16713	16583	16577	0.84	cps
Strontium	86-1	207	293	270	257	17.47	cps
Strontium	88-1	600	533	533	556	6.93	cps
Sulfur	34-1	342111	340456	339665	340744	0.37	cps
Terbium	159-1	12532454	12781449	12936463	12750122	1.60	cps
Terbium	159-2	4219597	4208155	4319088	4248947	1.44	cps
Thallium	203-1	287	280	320	296	7.25	cps
Thallium	205-1	733	690	643	689	6.53	cps
Tin	118-1	1187	1333	1197	1239	6.61	cps
Titanium	47-1	177	117	123	139	23.68	cps
Uranium	238-1	40	20	37	32	33.25	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 6020 Instrumnet Name : P8
Client Sample ID : PBW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:33:13 DataFile Name : 044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	0	7	2	173.21	cps
Ytterbium	172-1	57	53	70	60	14.70	cps
Ytterbium	172-2	37	10	23	23	57.15	cps
Ytterbium	176-1	1503	1563	1613	1560	3.53	cps
Ytterbium	176-2	187	197	260	214	18.55	cps
Yttrium	89-1	18053610	18093987	18753677	18300425	2.15	cps
Yttrium	89-2	1227500	1235818	1254216	1239178	1.10	cps
Zinc	66-2	363	410	460	411	11.76	cps
Zirconium	90-1	667	653	613	644	4.31	cps
Zirconium	91-1	90	93	120	101	16.26	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 6020 Instrumnet Name : P8
Client Sample ID : LCSW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:36:35 DataFile Name : 045LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	474050	469524	479753	474442	1.08	cps
Antimony	121-1	5364884	5520605	5407941	5431143	1.48	cps
Arsenic	75-2	92800	92897	93206	92967	0.23	cps
Barium	135-1	6801317	7058836	6951383	6937179	1.86	cps
Barium	137-1	11562800	12184440	11858282	11868508	2.62	cps
Beryllium	9-1	2058778	2148645	2115669	2107697	2.16	cps
Bismuth	209-1	7424431	7709606	7592143	7575393	1.89	cps
Bismuth	209-2	2766631	2745875	2754824	2755777	0.38	cps
Bromine	81-1	5428	5418	5111	5319	3.39	cps
Cadmium	108-1	106188	111577	109240	109001	2.48	cps
Cadmium	106-1	152796	161523	157936	157418	2.79	cps
Cadmium	111-1	1244752	1312328	1282231	1279770	2.65	cps
Calcium	43-1	2193714	2251124	2193756	2212865	1.50	cps
Calcium	44-1	34140488	35957134	35148676	35082099	2.59	cps
Carbon	12-1	2825581	2900139	2924975	2883565	1.79	cps
Carbon	12-2	21079	20848	20304	20744	1.92	cps
Chlorine	35-1	120019	123168	122146	121778	1.32	cps
Chlorine	35-2	500	497	453	483	5.39	cps
Chromium	52-2	1086574	1085155	1093349	1088359	0.40	cps
Cobalt	59-2	2117291	2113178	2129696	2120055	0.41	cps
Copper	63-2	15563578	15497550	15579094	15546741	0.28	cps
Dysprosium	156-1	167	233	233	211	18.23	cps
Dysprosium	156-2	20	7	17	14	48.02	cps
Erbium	164-1	150	150	100	133	21.65	cps
Erbium	164-2	40	17	30	29	40.51	cps
Gadolinium	160-1	77	100	93	90	13.35	cps
Gadolinium	160-2	20	20	10	17	34.64	cps
Holmium	165-1	12363663	13064127	12665803	12697864	2.77	cps
Holmium	165-2	4035049	4069573	4069739	4058120	0.49	cps
Indium	115-1	9335135	9863888	9502455	9567159	2.82	cps
Indium	115-2	866508	867476	875575	869853	0.57	cps
Iron	54-2	2355895	2344723	2357686	2352768	0.30	cps
Iron	56-2	42040511	41876279	41962921	41959904	0.20	cps
Iron	57-2	1012097	1007104	1021515	1013572	0.72	cps
Krypton	83-1	130	130	150	137	8.45	cps
Lead	206-1	21962460	23081918	22211871	22418749	2.62	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 6020 Instrumnet Name : P8
Client Sample ID : LCSW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:36:35 DataFile Name : 045LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18854758	19939518	19215352	19336543	2.86	cps
Lead	208-1	87695615	91260392	88835972	89263993	2.04	cps
Lithium	6-1	5919640	6167006	6128663	6071770	2.19	cps
Magnesium	24-2	8607151	8580885	8612593	8600210	0.20	cps
Manganese	55-2	4991823	4939071	4923446	4951447	0.72	cps
Molybdenum	94-1	19495884	20082098	19608675	19728886	1.58	cps
Molybdenum	95-1	28314938	29100356	28205943	28540412	1.71	cps
Molybdenum	96-1	30282988	31946210	30791522	31006907	2.75	cps
Molybdenum	97-1	17041086	18091420	17280153	17470886	3.15	cps
Molybdenum	98-1	44795948	46627426	46155336	45859570	2.07	cps
Neodymium	150-1	563	617	760	647	15.73	cps
Neodymium	150-2	37	23	17	26	39.85	cps
Nickel	60-2	539309	541737	547578	542875	0.78	cps
Phosphorus	31-2	21416	21152	21132	21233	0.75	cps
Potassium	39-2	2394825	2370402	2407389	2390872	0.79	cps
Rhodium	103-1	8545370	8981984	8656039	8727798	2.60	cps
Rhodium	103-2	3117950	3145744	3128189	3130628	0.45	cps
Scandium	45-1	7366469	7824028	7609059	7599852	3.01	cps
Scandium	45-2	125562	123501	126407	125157	1.19	cps
Selenium	82-1	84473	89900	87562	87312	3.12	cps
Selenium	77-2	1387	1350	1540	1426	7.07	cps
Selenium	78-2	4718	4718	4674	4703	0.53	cps
Silicon	28-1	20303548	20898734	20478947	20560410	1.49	cps
Silver	107-1	6960028	7339478	7134510	7144672	2.66	cps
Silver	109-1	6642888	6926509	6761100	6776832	2.10	cps
Sodium	23-2	16964237	16768626	16735843	16822902	0.73	cps
Strontium	86-1	2014753	2146480	2075083	2078772	3.17	cps
Strontium	88-1	17021106	18052469	17508702	17527426	2.94	cps
Sulfur	34-1	999297	918568	908090	941985	5.30	cps
Terbium	159-1	12699581	13221379	12805964	12908974	2.14	cps
Terbium	159-2	3993479	3885210	4021107	3966599	1.81	cps
Thallium	203-1	5664723	5968369	5735225	5789439	2.74	cps
Thallium	205-1	13227317	14048251	13418315	13564628	3.17	cps
Tin	118-1	4567221	4797792	4656773	4673929	2.49	cps
Titanium	47-1	8808981	9517296	9165100	9163793	3.86	cps
Uranium	238-1	17348293	18121328	17874318	17781313	2.22	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 6020 Instrumnet Name : P8
Client Sample ID : LCSW 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:36:35 DataFile Name : 045LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	857271	853623	861957	857617	0.49	cps
Ytterbium	172-1	127	90	120	112	17.41	cps
Ytterbium	172-2	60	67	17	48	56.82	cps
Ytterbium	176-1	25441	27345	26530	26439	3.61	cps
Ytterbium	176-2	7642	7726	8263	7877	4.27	cps
Yttrium	89-1	17747926	18780437	18106783	18211715	2.88	cps
Yttrium	89-2	1159501	1156626	1171544	1162557	0.68	cps
Zinc	66-2	1676290	1679831	1662608	1672910	0.54	cps
Zirconium	90-1	9798964	10223201	9916132	9979432	2.20	cps
Zirconium	91-1	2183123	2257886	2217864	2219624	1.69	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS 6020 Instrumnet Name : P8
Client Sample ID : PBS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:42:49 DataFile Name : 047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	67	87	130	94	34.28	cps
Antimony	121-1	287	303	310	300	4.01	cps
Arsenic	75-2	7	3	7	6	34.70	cps
Barium	135-1	527	437	353	439	19.75	cps
Barium	137-1	807	713	673	731	9.36	cps
Beryllium	9-1	361	340	336	346	3.90	cps
Bismuth	209-1	7912694	7648647	7307984	7623108	3.98	cps
Bismuth	209-2	2842047	2805581	2845733	2831120	0.78	cps
Bromine	81-1	5678	5541	5481	5567	1.81	cps
Cadmium	108-1	53	57	27	46	36.09	cps
Cadmium	106-1	5611	5321	4948	5293	6.28	cps
Cadmium	111-1	1132	1078	1004	1071	5.97	cps
Calcium	43-1	403	353	403	387	7.47	cps
Calcium	44-1	6942	6652	6598	6731	2.75	cps
Carbon	12-1	2616229	2591881	2584464	2597525	0.64	cps
Carbon	12-2	17224	17210	16820	17084	1.34	cps
Chlorine	35-1	74021	72903	71680	72868	1.61	cps
Chlorine	35-2	223	313	220	252	20.99	cps
Chromium	52-2	533	423	473	477	11.56	cps
Cobalt	59-2	153	143	130	142	8.23	cps
Copper	63-2	2684	2707	2817	2736	2.60	cps
Dysprosium	156-1	47	57	60	54	12.74	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	53	47	60	53	12.50	cps
Erbium	164-2	10	17	20	16	32.73	cps
Gadolinium	160-1	17	53	37	36	51.62	cps
Gadolinium	160-2	7	3	7	6	34.70	cps
Holmium	165-1	12770729	12305296	11648965	12241663	4.60	cps
Holmium	165-2	3956341	3994061	4006159	3985520	0.65	cps
Indium	115-1	9902877	9742933	9231607	9625806	3.64	cps
Indium	115-2	876661	873197	872153	874004	0.27	cps
Iron	54-2	293	297	307	299	2.32	cps
Iron	56-2	4144	4397	4514	4352	4.35	cps
Iron	57-2	123	117	127	122	4.17	cps
Krypton	83-1	117	93	140	117	20.00	cps
Lead	206-1	1383	1450	1293	1376	5.72	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS 6020 Instrumnet Name : P8
Client Sample ID : PBS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:42:49 DataFile Name : 047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1220	1230	987	1146	12.02	cps
Lead	208-1	5531	5517	5120	5389	4.32	cps
Lithium	6-1	5998131	5855683	5559394	5804402	3.86	cps
Magnesium	24-2	440	387	523	450	15.31	cps
Manganese	55-2	320	387	323	343	10.94	cps
Molybdenum	94-1	357	373	373	368	2.62	cps
Molybdenum	95-1	363	337	340	347	4.19	cps
Molybdenum	96-1	390	350	327	356	9.01	cps
Molybdenum	97-1	160	193	183	179	9.56	cps
Molybdenum	98-1	477	573	427	492	15.15	cps
Neodymium	150-1	20	17	40	26	49.38	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	960	857	837	884	7.48	cps
Phosphorus	31-2	53	67	43	54	21.51	cps
Potassium	39-2	6078	6061	6198	6112	1.22	cps
Rhodium	103-1	9244633	9005984	8482579	8911065	4.37	cps
Rhodium	103-2	3249956	3222722	3222109	3231595	0.49	cps
Scandium	45-1	7604764	7300225	6986226	7297072	4.24	cps
Scandium	45-2	118494	119447	120238	119393	0.73	cps
Selenium	82-1	3	27	-17	4	487.70	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	354494	350438	341563	348832	1.90	cps
Silver	107-1	227	237	257	240	6.36	cps
Silver	109-1	193	137	147	159	19.04	cps
Sodium	23-2	16556	16616	16880	16684	1.03	cps
Strontium	86-1	213	253	270	246	11.86	cps
Strontium	88-1	643	610	577	610	5.46	cps
Sulfur	34-1	338218	335634	329223	334358	1.39	cps
Terbium	159-1	13081596	12350730	11961081	12464469	4.56	cps
Terbium	159-2	3839370	3806285	3762142	3802599	1.02	cps
Thallium	203-1	290	353	310	318	10.19	cps
Thallium	205-1	737	913	643	764	17.94	cps
Tin	118-1	1410	1253	1180	1281	9.17	cps
Titanium	47-1	160	137	137	144	9.32	cps
Uranium	238-1	100	97	70	89	18.50	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBS 6020 Instrumnet Name : P8
Client Sample ID : PBS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:42:49 DataFile Name : 047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	13	10	10	33.30	cps
Ytterbium	172-1	67	53	40	53	25.00	cps
Ytterbium	172-2	30	20	13	21	39.75	cps
Ytterbium	176-1	1703	1517	1627	1616	5.81	cps
Ytterbium	176-2	140	173	230	181	25.12	cps
Yttrium	89-1	18640456	17690937	16907072	17746155	4.89	cps
Yttrium	89-2	1120632	1130531	1124621	1125261	0.44	cps
Zinc	66-2	433	420	393	416	4.90	cps
Zirconium	90-1	623	527	600	583	8.65	cps
Zirconium	91-1	113	100	117	110	8.02	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS 6020 Instrumnet Name : P8
Client Sample ID : LCSS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:46:13 DataFile Name : 048LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	512068	514548	515310	513975	0.33	cps
Antimony	121-1	5731929	5737296	5730970	5733398	0.06	cps
Arsenic	75-2	102123	103043	103120	102762	0.54	cps
Barium	135-1	7266251	7285576	7342870	7298232	0.55	cps
Barium	137-1	12414662	12491983	12538468	12481705	0.50	cps
Beryllium	9-1	2154285	2176169	2137077	2155843	0.91	cps
Bismuth	209-1	7947093	7849018	7931848	7909319	0.67	cps
Bismuth	209-2	3008589	3064313	3067762	3046888	1.09	cps
Bromine	81-1	5915	6175	5825	5971	3.05	cps
Cadmium	108-1	114111	115774	114628	114838	0.74	cps
Cadmium	106-1	167263	167725	166575	167188	0.35	cps
Cadmium	111-1	1332373	1350036	1350295	1344235	0.76	cps
Calcium	43-1	2328187	2313325	2310043	2317185	0.42	cps
Calcium	44-1	36641419	36564102	37135329	36780284	0.84	cps
Carbon	12-1	2794509	2885553	2930740	2870267	2.42	cps
Carbon	12-2	20494	20905	20842	20747	1.07	cps
Chlorine	35-1	95502	97777	99127	97469	1.88	cps
Chlorine	35-2	407	367	307	360	13.98	cps
Chromium	52-2	1185159	1188813	1194604	1189526	0.40	cps
Cobalt	59-2	2300760	2293591	2291047	2295133	0.22	cps
Copper	63-2	16949540	16756289	16940349	16882059	0.65	cps
Dysprosium	156-1	253	177	203	211	18.44	cps
Dysprosium	156-2	37	33	30	33	10.01	cps
Erbium	164-1	150	133	140	141	5.94	cps
Erbium	164-2	37	37	53	42	22.78	cps
Gadolinium	160-1	67	100	103	90	22.53	cps
Gadolinium	160-2	30	23	23	26	15.07	cps
Holmium	165-1	13208319	13397012	13253206	13286179	0.74	cps
Holmium	165-2	4487474	4541688	4479938	4503033	0.75	cps
Indium	115-1	10185061	10166575	10156892	10169509	0.14	cps
Indium	115-2	953915	951469	955099	953494	0.19	cps
Iron	54-2	2573054	2531138	2549822	2551338	0.82	cps
Iron	56-2	45600056	45674543	46060343	45778314	0.54	cps
Iron	57-2	1111463	1109036	1114919	1111806	0.27	cps
Krypton	83-1	133	167	163	154	11.89	cps
Lead	206-1	23177134	23184216	23497505	23286285	0.79	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS 6020 Instrumnet Name : P8
Client Sample ID : LCSS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:46:13 DataFile Name : 048LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	20119621	20346252	20304061	20256645	0.59	cps
Lead	208-1	92209639	93105338	93104674	92806550	0.56	cps
Lithium	6-1	6081202	6029661	6142759	6084540	0.93	cps
Magnesium	24-2	9269721	9223038	9244016	9245592	0.25	cps
Manganese	55-2	5395482	5349997	5448281	5397920	0.91	cps
Molybdenum	94-1	20269846	20715754	20860331	20615310	1.49	cps
Molybdenum	95-1	29796883	30062445	29777058	29878795	0.53	cps
Molybdenum	96-1	32491543	32677585	32601180	32590103	0.29	cps
Molybdenum	97-1	17976323	18338368	18471131	18261941	1.40	cps
Molybdenum	98-1	47649969	48409008	48823653	48294210	1.23	cps
Neodymium	150-1	727	643	667	679	6.33	cps
Neodymium	150-2	13	10	27	17	52.93	cps
Nickel	60-2	588254	591148	592097	590499	0.34	cps
Phosphorus	31-2	22888	22861	23449	23066	1.44	cps
Potassium	39-2	2638277	2605742	2618652	2620890	0.63	cps
Rhodium	103-1	9120651	9129827	9246406	9165628	0.76	cps
Rhodium	103-2	3481658	3404873	3399062	3428531	1.34	cps
Scandium	45-1	7903563	7913458	7946088	7921036	0.28	cps
Scandium	45-2	138692	136372	139502	138189	1.18	cps
Selenium	82-1	91014	92235	91919	91723	0.69	cps
Selenium	77-2	1547	1357	1440	1448	6.58	cps
Selenium	78-2	5181	4871	4958	5003	3.20	cps
Silicon	28-1	21436998	21393936	21661397	21497444	0.67	cps
Silver	107-1	7524689	7544027	7512571	7527096	0.21	cps
Silver	109-1	7085199	7057486	7118085	7086923	0.43	cps
Sodium	23-2	18322747	18439103	18347925	18369925	0.33	cps
Strontium	86-1	2190872	2208875	2180243	2193330	0.66	cps
Strontium	88-1	18290819	18337377	18463519	18363905	0.49	cps
Sulfur	34-1	931415	942094	946504	940005	0.83	cps
Terbium	159-1	13599277	13595832	13497917	13564342	0.42	cps
Terbium	159-2	4297628	4277500	4327044	4300724	0.58	cps
Thallium	203-1	6014283	5936353	6103002	6017879	1.39	cps
Thallium	205-1	14123110	14191392	14046325	14120276	0.51	cps
Tin	118-1	4967543	5024707	4897123	4963124	1.29	cps
Titanium	47-1	9579697	9535277	9642978	9585984	0.56	cps
Uranium	238-1	18346322	18512318	18385774	18414805	0.47	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSS 6020 Instrumnet Name : P8
Client Sample ID : LCSS 6020 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:46:13 DataFile Name : 048LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	933264	935006	937735	935335	0.24	cps
Ytterbium	172-1	153	167	113	144	19.22	cps
Ytterbium	172-2	53	60	67	60	11.12	cps
Ytterbium	176-1	27181	27348	27285	27272	0.31	cps
Ytterbium	176-2	8426	8950	8850	8742	3.18	cps
Yttrium	89-1	19083753	19295031	19559959	19312914	1.24	cps
Yttrium	89-2	1277236	1271457	1272396	1273697	0.24	cps
Zinc	66-2	1818120	1832614	1833515	1828083	0.47	cps
Zirconium	90-1	10338551	10430696	10460173	10409807	0.61	cps
Zirconium	91-1	2340741	2371698	2335393	2349277	0.83	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P8
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:49:30 DataFile Name : 049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2510403	2444199	2421817	2458806	1.87	cps
Antimony	121-1	5241238	5246623	5222526	5236796	0.24	cps
Arsenic	75-2	91944	91444	90434	91274	0.84	cps
Barium	135-1	6763617	6743843	6698883	6735447	0.49	cps
Barium	137-1	11491182	11590688	11637439	11573103	0.65	cps
Beryllium	9-1	2009626	2034875	1962876	2002459	1.82	cps
Bismuth	209-1	7184755	7137066	7060979	7127600	0.88	cps
Bismuth	209-2	2701662	2643751	2950341	2765251	5.89	cps
Bromine	81-1	6165	5878	6168	6070	2.74	cps
Cadmium	108-1	102951	103192	101772	102638	0.74	cps
Cadmium	106-1	150520	150103	148412	149678	0.75	cps
Cadmium	111-1	1185904	1192625	1185643	1188057	0.33	cps
Calcium	43-1	10416347	10418470	10453810	10429542	0.20	cps
Calcium	44-1	167936291	168427917	165644888	167336365	0.89	cps
Carbon	12-1	2731209	2709239	2749421	2729956	0.74	cps
Carbon	12-2	21933	21442	21426	21600	1.33	cps
Chlorine	35-1	80784	79584	79986	80118	0.76	cps
Chlorine	35-2	340	357	343	347	2.54	cps
Chromium	52-2	1073250	1074107	1061536	1069631	0.66	cps
Cobalt	59-2	2032132	2059269	1994228	2028543	1.61	cps
Copper	63-2	14275700	14389858	14008586	14224715	1.38	cps
Dysprosium	156-1	447	317	397	387	16.96	cps
Dysprosium	156-2	63	63	73	67	8.66	cps
Erbium	164-1	330	350	373	351	6.18	cps
Erbium	164-2	113	97	103	104	8.03	cps
Gadolinium	160-1	260	240	280	260	7.69	cps
Gadolinium	160-2	130	70	83	94	33.36	cps
Holmium	165-1	12777984	12632249	12649347	12686526	0.63	cps
Holmium	165-2	4170742	4233822	4672449	4359004	6.27	cps
Indium	115-1	9432242	9249592	9134254	9272029	1.62	cps
Indium	115-2	871254	873773	957679	900902	5.46	cps
Iron	54-2	10947735	11190424	10827404	10988521	1.68	cps
Iron	56-2	203058784	205182257	199955377	202732139	1.30	cps
Iron	57-2	5172932	5119553	5118121	5136868	0.61	cps
Krypton	83-1	163	183	157	168	8.27	cps
Lead	206-1	21195440	21433539	21244247	21291075	0.59	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P8
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:49:30 DataFile Name : 049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18570841	18596128	18348081	18505017	0.74	cps
Lead	208-1	84814325	85183828	84451143	84816432	0.43	cps
Lithium	6-1	5543722	5547124	5522229	5537692	0.24	cps
Magnesium	24-2	41407094	40350852	40473538	40743828	1.42	cps
Manganese	55-2	4849334	4898089	4812934	4853453	0.88	cps
Molybdenum	94-1	19544038	19583717	19595427	19574394	0.14	cps
Molybdenum	95-1	28055968	28122122	28171049	28116380	0.21	cps
Molybdenum	96-1	30813172	30729260	30516670	30686367	0.50	cps
Molybdenum	97-1	17098001	17302288	17197528	17199273	0.59	cps
Molybdenum	98-1	45437343	45666778	45226276	45443465	0.48	cps
Neodymium	150-1	900	733	767	800	11.02	cps
Neodymium	150-2	17	53	20	30	67.58	cps
Nickel	60-2	507656	507601	495555	503604	1.38	cps
Phosphorus	31-2	20802	21005	20454	20754	1.34	cps
Potassium	39-2	11725773	11734923	11667561	11709419	0.31	cps
Rhodium	103-1	8186701	8096208	8118783	8133897	0.58	cps
Rhodium	103-2	3031433	2993417	3335737	3120196	6.01	cps
Scandium	45-1	7487644	7329333	7396629	7404536	1.07	cps
Scandium	45-2	128650	126706	138796	131384	4.94	cps
Selenium	82-1	81952	81339	82626	81972	0.79	cps
Selenium	77-2	1273	1433	1210	1306	8.82	cps
Selenium	78-2	4377	4411	4564	4451	2.24	cps
Silicon	28-1	32587975	32385260	32124016	32365750	0.72	cps
Silver	107-1	6647329	6550565	6540238	6579377	0.90	cps
Silver	109-1	6237558	6264963	6178762	6227094	0.71	cps
Sodium	23-2	82741112	81757829	81384982	81961308	0.85	cps
Strontium	86-1	2038351	2039709	2015979	2031347	0.66	cps
Strontium	88-1	17183093	16929274	17073906	17062091	0.75	cps
Sulfur	34-1	1002107	993690	979457	991751	1.15	cps
Terbium	159-1	12825329	12719019	12658601	12734317	0.66	cps
Terbium	159-2	4088700	4115106	4460259	4221355	4.91	cps
Thallium	203-1	5470085	5490197	5477043	5479109	0.19	cps
Thallium	205-1	13113122	12959689	12871058	12981290	0.94	cps
Tin	118-1	4535560	4576219	4519730	4543837	0.64	cps
Titanium	47-1	9122969	8938725	8984430	9015375	1.06	cps
Uranium	238-1	17445584	17647215	17694722	17595840	0.75	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV003 Instrumnet Name : P8
Client Sample ID : CCV003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:49:30 DataFile Name : 049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	859134	852144	849927	853735	0.56	cps
Ytterbium	172-1	333	317	323	324	2.59	cps
Ytterbium	172-2	140	113	133	129	10.76	cps
Ytterbium	176-1	27158	26600	26356	26705	1.54	cps
Ytterbium	176-2	8409	8209	8479	8366	1.68	cps
Yttrium	89-1	18158509	17992033	18019268	18056603	0.49	cps
Yttrium	89-2	1190209	1196729	1311071	1232669	5.51	cps
Zinc	66-2	1539352	1552764	1462385	1518167	3.21	cps
Zirconium	90-1	9934786	9879804	9902382	9905657	0.28	cps
Zirconium	91-1	2234926	2228560	2233602	2232363	0.15	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P8
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:56:19 DataFile Name : 050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	80	60	107	82	28.48	cps
Antimony	121-1	517	503	527	516	2.27	cps
Arsenic	75-2	0	13	3	6	124.93	cps
Barium	135-1	767	693	723	728	5.07	cps
Barium	137-1	1273	1220	1193	1229	3.31	cps
Beryllium	9-1	542	551	530	541	1.97	cps
Bismuth	209-1	8294439	8000586	7939587	8078204	2.35	cps
Bismuth	209-2	3144853	3096324	3085857	3109011	1.01	cps
Bromine	81-1	5698	5371	5471	5513	3.04	cps
Cadmium	108-1	40	40	23	34	27.94	cps
Cadmium	106-1	5921	5521	6005	5816	4.44	cps
Cadmium	111-1	1200	1133	1265	1199	5.49	cps
Calcium	43-1	497	420	447	454	8.56	cps
Calcium	44-1	8059	7122	7115	7432	7.31	cps
Carbon	12-1	2620615	2604237	2669032	2631295	1.28	cps
Carbon	12-2	17424	17340	17574	17446	0.68	cps
Chlorine	35-1	65025	65912	66087	65675	0.87	cps
Chlorine	35-2	193	247	250	230	13.82	cps
Chromium	52-2	540	587	477	534	10.33	cps
Cobalt	59-2	217	227	223	222	2.29	cps
Copper	63-2	2387	2544	2384	2438	3.75	cps
Dysprosium	156-1	47	53	63	54	15.40	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	60	93	70	74	22.98	cps
Erbium	164-2	13	17	13	14	13.35	cps
Gadolinium	160-1	33	27	47	36	28.64	cps
Gadolinium	160-2	3	7	10	7	50.03	cps
Holmium	165-1	13176362	12884599	12779012	12946657	1.59	cps
Holmium	165-2	4227449	4347293	4297604	4290782	1.40	cps
Indium	115-1	10474502	10189479	10247700	10303894	1.46	cps
Indium	115-2	940257	941202	951555	944338	0.66	cps
Iron	54-2	457	510	397	454	12.48	cps
Iron	56-2	6875	7145	6925	6982	2.06	cps
Iron	57-2	120	137	163	140	15.61	cps
Krypton	83-1	137	127	130	131	3.88	cps
Lead	206-1	1837	1660	1620	1706	6.76	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P8
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:56:19 DataFile Name : 050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1423	1380	1390	1398	1.62	cps
Lead	208-1	6927	6517	6454	6633	3.87	cps
Lithium	6-1	6365013	6218276	6203701	6262330	1.42	cps
Magnesium	24-2	763	763	727	751	2.82	cps
Manganese	55-2	330	337	370	346	6.20	cps
Molybdenum	94-1	670	653	553	626	10.09	cps
Molybdenum	95-1	710	597	550	619	13.30	cps
Molybdenum	96-1	907	690	700	766	15.98	cps
Molybdenum	97-1	387	347	317	350	10.04	cps
Molybdenum	98-1	1170	937	960	1022	12.57	cps
Neodymium	150-1	27	30	27	28	6.92	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	817	920	840	859	6.31	cps
Phosphorus	31-2	43	27	43	38	25.46	cps
Potassium	39-2	6978	6575	6525	6693	3.72	cps
Rhodium	103-1	9561349	9296023	9457440	9438271	1.42	cps
Rhodium	103-2	3497375	3506862	3573023	3525753	1.17	cps
Scandium	45-1	7884504	7679218	7562730	7708818	2.11	cps
Scandium	45-2	128999	127697	128555	128417	0.52	cps
Selenium	82-1	-23	-20	-17	-20	-16.67	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	0	10	13	8	89.21	cps
Silicon	28-1	355237	352827	352937	353667	0.38	cps
Silver	107-1	250	360	367	326	20.13	cps
Silver	109-1	243	203	250	232	10.87	cps
Sodium	23-2	19990	20508	19640	20046	2.18	cps
Strontium	86-1	303	227	240	257	15.96	cps
Strontium	88-1	503	527	550	527	4.43	cps
Sulfur	34-1	343418	342793	342588	342933	0.13	cps
Terbium	159-1	13312386	12997570	12966328	13092094	1.46	cps
Terbium	159-2	4108700	4235601	4194578	4179626	1.55	cps
Thallium	203-1	437	317	373	376	15.98	cps
Thallium	205-1	893	873	913	893	2.24	cps
Tin	118-1	1390	1243	1317	1317	5.57	cps
Titanium	47-1	207	207	190	201	4.79	cps
Uranium	238-1	263	180	170	204	25.07	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB003 Instrumnet Name : P8
Client Sample ID : CCB003 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:56:19 DataFile Name : 050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	10	17	14	26.66	cps
Ytterbium	172-1	57	77	67	67	15.00	cps
Ytterbium	172-2	43	17	27	29	46.62	cps
Ytterbium	176-1	1640	1653	1683	1659	1.34	cps
Ytterbium	176-2	190	240	283	238	19.64	cps
Yttrium	89-1	19105216	18608187	18514093	18742499	1.69	cps
Yttrium	89-2	1215510	1213045	1230840	1219798	0.79	cps
Zinc	66-2	290	267	257	271	6.31	cps
Zirconium	90-1	790	787	850	809	4.41	cps
Zirconium	91-1	190	157	177	174	9.62	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 200.8 Instrumnet Name : P8
Client Sample ID : PBW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:59:45 DataFile Name : 051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107	103	110	107	3.13	cps
Antimony	121-1	250	213	247	237	8.57	cps
Arsenic	75-2	0	17	3	7	132.33	cps
Barium	135-1	447	523	567	512	11.86	cps
Barium	137-1	837	900	930	889	5.36	cps
Beryllium	9-1	471	426	432	443	5.50	cps
Bismuth	209-1	8187374	8289436	8748070	8408293	3.55	cps
Bismuth	209-2	3365443	2763675	3081875	3070331	9.81	cps
Bromine	81-1	5471	5701	5421	5531	2.70	cps
Cadmium	108-1	33	47	30	37	24.06	cps
Cadmium	106-1	5625	5961	6241	5942	5.20	cps
Cadmium	111-1	1148	1210	1251	1203	4.28	cps
Calcium	43-1	357	390	407	384	6.62	cps
Calcium	44-1	7242	6788	6852	6961	3.53	cps
Carbon	12-1	2621392	2601627	2622482	2615167	0.45	cps
Carbon	12-2	17524	17080	17023	17209	1.59	cps
Chlorine	35-1	58738	58625	58300	58554	0.39	cps
Chlorine	35-2	200	257	207	221	14.01	cps
Chromium	52-2	587	583	497	556	9.18	cps
Cobalt	59-2	213	163	137	171	22.75	cps
Copper	63-2	3087	3010	3014	3037	1.43	cps
Dysprosium	156-1	57	57	57	57	0.00	cps
Dysprosium	156-2	3	10	3	6	69.34	cps
Erbium	164-1	83	80	67	77	11.50	cps
Erbium	164-2	13	13	27	18	43.33	cps
Gadolinium	160-1	30	20	50	33	45.83	cps
Gadolinium	160-2	17	7	13	12	41.65	cps
Holmium	165-1	12837159	13330141	13802774	13323358	3.62	cps
Holmium	165-2	4654642	3819430	4256985	4243686	9.84	cps
Indium	115-1	10219281	10432065	11182131	10611159	4.77	cps
Indium	115-2	1025473	837002	940894	934456	10.10	cps
Iron	54-2	300	327	327	318	4.84	cps
Iron	56-2	4824	4818	5031	4891	2.48	cps
Iron	57-2	123	127	100	117	12.45	cps
Krypton	83-1	127	137	153	139	9.70	cps
Lead	206-1	1473	1440	1453	1456	1.15	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 200.8 Instrumnet Name : P8
Client Sample ID : PBW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:59:45 DataFile Name : 051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1253	1133	1357	1248	8.96	cps
Lead	208-1	5867	5507	5994	5789	4.36	cps
Lithium	6-1	6374225	6446654	6622709	6481196	1.97	cps
Magnesium	24-2	373	407	423	401	6.35	cps
Manganese	55-2	310	273	333	306	9.90	cps
Molybdenum	94-1	387	410	303	367	15.29	cps
Molybdenum	95-1	203	217	233	218	6.90	cps
Molybdenum	96-1	403	257	343	334	22.05	cps
Molybdenum	97-1	150	103	117	123	19.49	cps
Molybdenum	98-1	413	377	373	388	5.72	cps
Neodymium	150-1	37	33	27	32	15.80	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	983	900	973	952	4.78	cps
Phosphorus	31-2	43	43	40	42	4.55	cps
Potassium	39-2	6688	6395	6361	6482	2.77	cps
Rhodium	103-1	9626520	9496404	10159867	9760930	3.60	cps
Rhodium	103-2	3807140	3085394	3462545	3451693	10.46	cps
Scandium	45-1	7627557	7957246	8395031	7993278	4.82	cps
Scandium	45-2	140859	113408	128367	127545	10.78	cps
Selenium	82-1	-3	-3	-60	-22	-147.25	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	17	0	0	6	173.21	cps
Silicon	28-1	352734	352339	352120	352398	0.09	cps
Silver	107-1	203	157	223	194	17.59	cps
Silver	109-1	110	120	167	132	22.88	cps
Sodium	23-2	18605	18936	18755	18765	0.88	cps
Strontium	86-1	280	257	253	263	5.52	cps
Strontium	88-1	593	600	567	587	3.01	cps
Sulfur	34-1	345117	345373	343196	344562	0.35	cps
Terbium	159-1	13158913	13538824	14290795	13662844	4.22	cps
Terbium	159-2	4480059	3681410	4157388	4106286	9.78	cps
Thallium	203-1	347	333	273	318	12.29	cps
Thallium	205-1	760	717	697	724	4.47	cps
Tin	118-1	1337	1353	1283	1325	2.76	cps
Titanium	47-1	100	120	157	126	22.89	cps
Uranium	238-1	13	23	20	19	26.96	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PBW 200.8 Instrumnet Name : P8
Client Sample ID : PBW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 12:59:45 DataFile Name : 051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	10	0	7	86.60	cps
Ytterbium	172-1	67	93	60	73	24.05	cps
Ytterbium	172-2	23	27	33	28	18.33	cps
Ytterbium	176-1	1573	1650	1687	1637	3.53	cps
Ytterbium	176-2	257	230	217	234	8.69	cps
Yttrium	89-1	18711359	18989478	20189896	19296911	4.07	cps
Yttrium	89-2	1309420	1082030	1216491	1202647	9.51	cps
Zinc	66-2	380	460	407	416	9.80	cps
Zirconium	90-1	663	627	650	647	2.87	cps
Zirconium	91-1	107	140	137	128	14.37	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 200.8 Instrumnet Name : P8
Client Sample ID : LCSW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:03:08 DataFile Name : 052LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	500820	504345	500568	501911	0.42	cps
Antimony	121-1	5539317	5595453	5622215	5585662	0.76	cps
Arsenic	75-2	98968	98648	99169	98928	0.27	cps
Barium	135-1	6895773	7081693	7058496	7011988	1.44	cps
Barium	137-1	11992319	12290075	12179946	12154114	1.24	cps
Beryllium	9-1	2114323	2192239	2157244	2154602	1.81	cps
Bismuth	209-1	8095476	7224294	7981843	7767204	6.10	cps
Bismuth	209-2	3035593	3022584	2942161	3000113	1.69	cps
Bromine	81-1	5488	5758	5778	5675	2.86	cps
Cadmium	108-1	110172	113775	112853	112267	1.67	cps
Cadmium	106-1	161061	164042	165141	163415	1.29	cps
Cadmium	111-1	1278549	1317289	1323675	1306504	1.87	cps
Calcium	43-1	2229403	2294356	2248973	2257577	1.48	cps
Calcium	44-1	35430884	36125311	35500500	35685565	1.07	cps
Carbon	12-1	2770838	2853729	2932260	2852275	2.83	cps
Carbon	12-2	20514	20468	20431	20471	0.20	cps
Chlorine	35-1	81323	83764	86805	83964	3.27	cps
Chlorine	35-2	420	360	357	379	9.41	cps
Chromium	52-2	1153234	1160197	1166790	1160074	0.58	cps
Cobalt	59-2	2271219	2247059	2243475	2253918	0.67	cps
Copper	63-2	16409786	16435206	16366503	16403831	0.21	cps
Dysprosium	156-1	233	243	197	224	10.95	cps
Dysprosium	156-2	23	10	20	18	39.03	cps
Erbium	164-1	137	150	123	137	9.75	cps
Erbium	164-2	40	57	53	50	17.64	cps
Gadolinium	160-1	63	123	107	98	31.68	cps
Gadolinium	160-2	27	30	50	36	35.49	cps
Holmium	165-1	13772378	12100036	13594411	13155608	6.98	cps
Holmium	165-2	4430378	4345095	4384199	4386558	0.97	cps
Indium	115-1	10317357	9288228	10373721	9993102	6.12	cps
Indium	115-2	942553	940266	934696	939172	0.43	cps
Iron	54-2	2482929	2478492	2566573	2509331	1.98	cps
Iron	56-2	44755858	45095436	44990839	44947378	0.39	cps
Iron	57-2	1078804	1082970	1090056	1083943	0.52	cps
Krypton	83-1	157	173	137	156	11.80	cps
Lead	206-1	22485795	23225490	22556636	22755974	1.79	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 200.8 Instrumnet Name : P8
Client Sample ID : LCSW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:03:08 DataFile Name : 052LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19426345	19747336	19816973	19663551	1.06	cps
Lead	208-1	89461837	91246968	90601840	90436882	1.00	cps
Lithium	6-1	6314796	5700913	6203357	6073022	5.39	cps
Magnesium	24-2	8963447	9087756	8963715	9004973	0.80	cps
Manganese	55-2	5253482	5307119	5259739	5273447	0.56	cps
Molybdenum	94-1	19916672	20258329	20338737	20171246	1.11	cps
Molybdenum	95-1	29188363	28960232	29536408	29228334	0.99	cps
Molybdenum	96-1	31303810	31653050	31595854	31517571	0.59	cps
Molybdenum	97-1	17570121	17834118	18100944	17835061	1.49	cps
Molybdenum	98-1	45848181	47119751	47419001	46795644	1.78	cps
Neodymium	150-1	543	767	697	669	17.08	cps
Neodymium	150-2	23	17	23	21	18.21	cps
Nickel	60-2	572495	572163	574205	572954	0.19	cps
Phosphorus	31-2	22377	22087	22110	22191	0.73	cps
Potassium	39-2	2493569	2535657	2528337	2519188	0.89	cps
Rhodium	103-1	9347518	8249196	9423429	9006714	7.30	cps
Rhodium	103-2	3443204	3402440	3394389	3413345	0.77	cps
Scandium	45-1	8170096	7107402	8081158	7786219	7.57	cps
Scandium	45-2	133890	134788	133302	133993	0.56	cps
Selenium	82-1	87465	88712	89336	88504	1.08	cps
Selenium	77-2	1450	1537	1547	1511	3.52	cps
Selenium	78-2	4954	4637	4821	4804	3.31	cps
Silicon	28-1	20620433	20917018	21006418	20847956	0.97	cps
Silver	107-1	7360480	7414528	7347064	7374024	0.48	cps
Silver	109-1	6881461	6899341	7035234	6938679	1.21	cps
Sodium	23-2	18012733	18106169	17774152	17964352	0.95	cps
Strontium	86-1	2099737	2133160	2123594	2118831	0.81	cps
Strontium	88-1	17684223	17892051	18205662	17927312	1.46	cps
Sulfur	34-1	915850	913741	917876	915822	0.23	cps
Terbium	159-1	13702125	12225526	13997086	13308245	7.13	cps
Terbium	159-2	4273722	4310256	4292847	4292275	0.43	cps
Thallium	203-1	5783582	5921909	5966199	5890563	1.62	cps
Thallium	205-1	13659446	13958841	13764749	13794345	1.10	cps
Tin	118-1	4789202	4881505	4809984	4826897	1.00	cps
Titanium	47-1	9212522	9424518	9298404	9311815	1.15	cps
Uranium	238-1	17870956	18152289	18007871	18010372	0.78	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : LCSW 200.8 Instrumnet Name : P8
Client Sample ID : LCSW 200.8 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:03:08 DataFile Name : 052LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	910808	910497	911768	911025	0.07	cps
Ytterbium	172-1	137	120	150	136	11.09	cps
Ytterbium	172-2	47	43	33	41	16.89	cps
Ytterbium	176-1	26186	26981	27445	26871	2.37	cps
Ytterbium	176-2	8743	8403	8840	8662	2.65	cps
Yttrium	89-1	19505766	17458738	19768573	18911026	6.69	cps
Yttrium	89-2	1259501	1255454	1253542	1256166	0.24	cps
Zinc	66-2	1822125	1782239	1796345	1800236	1.12	cps
Zirconium	90-1	9963716	10196699	10197841	10119419	1.33	cps
Zirconium	91-1	2263485	2278987	2315745	2286073	1.17	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P8
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:05:58 DataFile Name : 053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2388890	2383523	2366132	2379515	0.50	cps
Antimony	121-1	5041180	5128397	5044255	5071277	0.98	cps
Arsenic	75-2	89730	88898	90039	89555	0.66	cps
Barium	135-1	6567765	6659515	6599496	6608925	0.71	cps
Barium	137-1	11397572	11356896	11383949	11379472	0.18	cps
Beryllium	9-1	1967529	1962331	1945993	1958618	0.57	cps
Bismuth	209-1	6970429	7027929	6999668	6999342	0.41	cps
Bismuth	209-2	2655301	2667443	2641563	2654769	0.49	cps
Bromine	81-1	6065	5928	5678	5890	3.33	cps
Cadmium	108-1	100328	99418	100049	99932	0.47	cps
Cadmium	106-1	145696	146936	145420	146017	0.55	cps
Cadmium	111-1	1145593	1157465	1156167	1153075	0.56	cps
Calcium	43-1	10159734	10187000	9973578	10106771	1.15	cps
Calcium	44-1	163992281	163139154	163529401	163553612	0.26	cps
Carbon	12-1	2735041	2716994	2806857	2752964	1.73	cps
Carbon	12-2	21366	21239	21179	21261	0.45	cps
Chlorine	35-1	69697	70393	70943	70344	0.89	cps
Chlorine	35-2	313	273	263	283	9.34	cps
Chromium	52-2	1054411	1041307	1042705	1046141	0.69	cps
Cobalt	59-2	1987275	1984914	1975397	1982528	0.32	cps
Copper	63-2	14045839	13966502	14008029	14006790	0.28	cps
Dysprosium	156-1	347	350	367	354	3.02	cps
Dysprosium	156-2	63	97	70	77	23.01	cps
Erbium	164-1	273	283	330	296	10.23	cps
Erbium	164-2	90	113	97	100	12.02	cps
Gadolinium	160-1	243	283	237	254	9.92	cps
Gadolinium	160-2	93	90	100	94	5.39	cps
Holmium	165-1	12423922	12306636	12482638	12404399	0.72	cps
Holmium	165-2	4187514	4188437	4190340	4188764	0.03	cps
Indium	115-1	9155850	9034107	9185450	9125136	0.88	cps
Indium	115-2	855729	855148	854239	855039	0.09	cps
Iron	54-2	10920525	10807563	10762604	10830231	0.75	cps
Iron	56-2	198920310	197074390	197369330	197788010	0.50	cps
Iron	57-2	5073593	5044127	5013922	5043881	0.59	cps
Krypton	83-1	210	170	220	200	13.23	cps
Lead	206-1	20588358	20647947	20892597	20709634	0.78	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P8
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:05:58 DataFile Name : 053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17787484	17922809	17843349	17851214	0.38	cps
Lead	208-1	82001068	82419562	82090701	82170444	0.27	cps
Lithium	6-1	5626063	5568053	5701247	5631788	1.19	cps
Magnesium	24-2	40469181	39887818	39650635	40002545	1.05	cps
Manganese	55-2	4800721	4753215	4700889	4751608	1.05	cps
Molybdenum	94-1	18830428	19185559	18847185	18954391	1.06	cps
Molybdenum	95-1	26990835	27809906	26949611	27250117	1.78	cps
Molybdenum	96-1	29961862	30312598	29742538	30005666	0.96	cps
Molybdenum	97-1	16741156	16959908	16781964	16827676	0.69	cps
Molybdenum	98-1	43710293	43816864	43672389	43733182	0.17	cps
Neodymium	150-1	727	760	897	794	11.34	cps
Neodymium	150-2	63	33	57	51	30.82	cps
Nickel	60-2	497189	491220	494215	494208	0.60	cps
Phosphorus	31-2	20124	19847	19947	19973	0.70	cps
Potassium	39-2	11623671	11459036	11313781	11465496	1.35	cps
Rhodium	103-1	8139551	8008600	8071634	8073262	0.81	cps
Rhodium	103-2	2989147	3007840	2974007	2990331	0.57	cps
Scandium	45-1	7408713	7206178	7313488	7309460	1.39	cps
Scandium	45-2	124601	125398	124244	124748	0.47	cps
Selenium	82-1	79421	78114	78365	78633	0.88	cps
Selenium	77-2	1343	1310	1253	1302	3.49	cps
Selenium	78-2	4504	4331	4434	4423	1.97	cps
Silicon	28-1	32014061	31312501	31479287	31601950	1.16	cps
Silver	107-1	6361077	6468844	6379191	6403038	0.90	cps
Silver	109-1	6032636	6081709	6090594	6068313	0.51	cps
Sodium	23-2	80530714	80150597	79088847	79923386	0.94	cps
Strontium	86-1	1944262	1958869	1968673	1957268	0.63	cps
Strontium	88-1	16670316	16764350	16578951	16671206	0.56	cps
Sulfur	34-1	964860	957878	955625	959455	0.50	cps
Terbium	159-1	12645111	12805982	12535736	12662276	1.07	cps
Terbium	159-2	4047276	3984774	3969719	4000590	1.03	cps
Thallium	203-1	5281056	5317939	5422491	5340495	1.37	cps
Thallium	205-1	12793009	12735814	12696401	12741741	0.38	cps
Tin	118-1	4341425	4493997	4407905	4414442	1.73	cps
Titanium	47-1	8748953	8717055	8747571	8737860	0.21	cps
Uranium	238-1	16968091	17145503	16970713	17028103	0.60	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV004 Instrumnet Name : P8
Client Sample ID : CCV004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:05:58 DataFile Name : 053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	840591	839366	830831	836929	0.64	cps
Ytterbium	172-1	303	310	387	333	13.89	cps
Ytterbium	172-2	150	103	160	138	21.95	cps
Ytterbium	176-1	25568	26059	25505	25711	1.18	cps
Ytterbium	176-2	8189	8453	8476	8373	1.90	cps
Yttrium	89-1	17875193	17701249	17940076	17838839	0.69	cps
Yttrium	89-2	1176568	1168729	1169431	1171576	0.37	cps
Zinc	66-2	1432591	1523718	1439775	1465361	3.46	cps
Zirconium	90-1	9619081	9628874	9464895	9570950	0.96	cps
Zirconium	91-1	2164448	2204858	2189024	2186110	0.93	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P8
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:19:04 DataFile Name : 057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	70	80	67	72	9.61	cps
Antimony	121-1	233	213	273	240	12.73	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	500	437	477	471	6.80	cps
Barium	137-1	760	820	827	802	4.58	cps
Beryllium	9-1	482	467	447	466	3.77	cps
Bismuth	209-1	8282459	8320493	8325789	8309580	0.28	cps
Bismuth	209-2	3135431	3079964	3229080	3148158	2.39	cps
Bromine	81-1	5668	5561	5444	5558	2.01	cps
Cadmium	108-1	43	33	37	38	13.48	cps
Cadmium	106-1	5878	6248	5965	6030	3.21	cps
Cadmium	111-1	1209	1270	1201	1226	3.08	cps
Calcium	43-1	370	370	357	366	2.11	cps
Calcium	44-1	5938	6058	6071	6022	1.22	cps
Carbon	12-1	2479338	2484409	2501523	2488423	0.47	cps
Carbon	12-2	16763	16413	16586	16587	1.06	cps
Chlorine	35-1	49969	48193	48799	48987	1.84	cps
Chlorine	35-2	170	180	120	157	20.52	cps
Chromium	52-2	517	543	490	517	5.16	cps
Cobalt	59-2	133	173	193	167	18.33	cps
Copper	63-2	2984	2834	2824	2880	3.11	cps
Dysprosium	156-1	60	57	43	53	16.54	cps
Dysprosium	156-2	10	3	0	4	114.60	cps
Erbium	164-1	63	77	50	63	21.06	cps
Erbium	164-2	17	17	13	16	12.40	cps
Gadolinium	160-1	17	37	43	32	43.06	cps
Gadolinium	160-2	20	13	10	14	35.26	cps
Holmium	165-1	13440907	13117701	12906546	13155051	2.05	cps
Holmium	165-2	4453376	4298233	4498760	4416789	2.38	cps
Indium	115-1	10598236	10287134	10311335	10398901	1.66	cps
Indium	115-2	977684	938810	984031	966842	2.53	cps
Iron	54-2	347	337	317	333	4.58	cps
Iron	56-2	4814	5045	4417	4759	6.67	cps
Iron	57-2	87	140	110	112	23.82	cps
Krypton	83-1	107	100	80	96	14.52	cps
Lead	206-1	1310	1307	1370	1329	2.68	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P8
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:19:04 DataFile Name : 057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1250	1247	1213	1237	1.64	cps
Lead	208-1	5647	5377	5377	5467	2.85	cps
Lithium	6-1	6499469	6484037	6280189	6421231	1.91	cps
Magnesium	24-2	420	337	397	384	11.18	cps
Manganese	55-2	297	273	330	300	9.49	cps
Molybdenum	94-1	327	360	220	302	24.20	cps
Molybdenum	95-1	227	197	257	227	13.24	cps
Molybdenum	96-1	293	307	220	273	17.07	cps
Molybdenum	97-1	117	143	113	124	13.22	cps
Molybdenum	98-1	310	310	293	304	3.16	cps
Neodymium	150-1	13	3	17	11	62.48	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	1010	883	1033	976	8.27	cps
Phosphorus	31-2	53	37	40	43	20.34	cps
Potassium	39-2	6465	6495	6408	6456	0.68	cps
Rhodium	103-1	9635940	9451913	9626486	9571446	1.08	cps
Rhodium	103-2	3642736	3521827	3637521	3600695	1.90	cps
Scandium	45-1	8007561	7784338	7729407	7840435	1.88	cps
Scandium	45-2	130802	127054	133923	130593	2.63	cps
Selenium	82-1	60	10	20	30	88.19	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	0	1	173.21	cps
Silicon	28-1	347431	347948	344937	346772	0.46	cps
Silver	107-1	173	180	247	200	20.28	cps
Silver	109-1	90	107	110	102	10.48	cps
Sodium	23-2	17831	17891	17684	17802	0.60	cps
Strontium	86-1	200	233	223	219	7.82	cps
Strontium	88-1	493	470	513	492	4.41	cps
Sulfur	34-1	332957	333460	331459	332626	0.31	cps
Terbium	159-1	13758390	13158042	13312712	13409715	2.32	cps
Terbium	159-2	4342337	4091967	4343687	4259330	3.40	cps
Thallium	203-1	333	327	393	351	10.46	cps
Thallium	205-1	787	847	800	811	3.88	cps
Tin	118-1	1233	1157	1190	1193	3.22	cps
Titanium	47-1	147	140	147	144	2.67	cps
Uranium	238-1	60	27	37	41	41.60	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB004 Instrumnet Name : P8
Client Sample ID : CCB004 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:19:04 DataFile Name : 057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	7	3	8	65.47	cps
Ytterbium	172-1	90	67	83	80	15.02	cps
Ytterbium	172-2	37	37	37	37	0.00	cps
Ytterbium	176-1	1660	1643	1777	1693	4.29	cps
Ytterbium	176-2	223	197	187	202	9.37	cps
Yttrium	89-1	19435357	18931782	18805716	19057618	1.75	cps
Yttrium	89-2	1259504	1207589	1268870	1245321	2.65	cps
Zinc	66-2	353	307	317	326	7.55	cps
Zirconium	90-1	613	550	583	582	5.44	cps
Zirconium	91-1	163	90	153	136	29.34	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BL Instrumnet Name : P8
Client Sample ID : PBW174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:22:28 DataFile Name : 058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	63	57	90	70	25.20	cps
Antimony	121-1	217	190	177	194	10.47	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	357	450	380	396	12.28	cps
Barium	137-1	617	697	643	652	6.25	cps
Beryllium	9-1	416	464	409	430	6.94	cps
Bismuth	209-1	8125105	8497938	8182683	8268576	2.43	cps
Bismuth	209-2	3330515	3152620	3150668	3211268	3.22	cps
Bromine	81-1	5484	5488	5818	5597	3.42	cps
Cadmium	108-1	33	23	57	38	45.29	cps
Cadmium	106-1	5765	6101	5681	5849	3.80	cps
Cadmium	111-1	1166	1241	1137	1181	4.54	cps
Calcium	43-1	377	390	363	377	3.54	cps
Calcium	44-1	6045	6105	6328	6159	2.43	cps
Carbon	12-1	2492371	2515820	2507750	2505314	0.48	cps
Carbon	12-2	16416	17023	16082	16507	2.89	cps
Chlorine	35-1	47013	47712	48478	47734	1.53	cps
Chlorine	35-2	207	150	163	173	17.09	cps
Chromium	52-2	460	523	510	498	6.71	cps
Cobalt	59-2	120	153	153	142	13.53	cps
Copper	63-2	2884	2597	2840	2774	5.57	cps
Dysprosium	156-1	40	37	43	40	8.32	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	87	93	67	82	16.87	cps
Erbium	164-2	17	13	23	18	28.64	cps
Gadolinium	160-1	57	43	20	40	46.40	cps
Gadolinium	160-2	7	13	3	8	65.47	cps
Holmium	165-1	13138895	13401824	13042180	13194300	1.41	cps
Holmium	165-2	4620193	4427755	4469113	4505687	2.25	cps
Indium	115-1	10442753	10841224	10337771	10540583	2.52	cps
Indium	115-2	995249	966321	961456	974342	1.87	cps
Iron	54-2	310	327	283	307	7.13	cps
Iron	56-2	4657	4838	4794	4763	1.97	cps
Iron	57-2	127	133	133	131	2.94	cps
Krypton	83-1	127	133	120	127	5.27	cps
Lead	206-1	1207	1230	1323	1253	4.93	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BL Instrumnet Name : P8
Client Sample ID : PBW174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:22:28 DataFile Name : 058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1170	1197	1013	1127	8.79	cps
Lead	208-1	5157	5120	5114	5130	0.46	cps
Lithium	6-1	6324260	6496578	6318511	6379783	1.59	cps
Magnesium	24-2	323	433	397	384	14.57	cps
Manganese	55-2	290	290	263	281	5.48	cps
Molybdenum	94-1	350	317	310	326	6.58	cps
Molybdenum	95-1	217	193	213	208	6.07	cps
Molybdenum	96-1	297	277	273	282	4.47	cps
Molybdenum	97-1	87	113	120	107	16.53	cps
Molybdenum	98-1	313	310	273	299	7.43	cps
Neodymium	150-1	27	20	43	30	40.05	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1003	983	860	949	8.18	cps
Phosphorus	31-2	20	10	27	19	44.42	cps
Potassium	39-2	6221	6558	6058	6279	4.06	cps
Rhodium	103-1	9523654	9894940	9383666	9600753	2.75	cps
Rhodium	103-2	3673471	3550742	3505269	3576494	2.43	cps
Scandium	45-1	7839551	8196931	7709814	7915432	3.19	cps
Scandium	45-2	134823	130826	128548	131399	2.42	cps
Selenium	82-1	-50	-60	13	-32	-123.44	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	10	0	11	105.35	cps
Silicon	28-1	344922	347758	343242	345307	0.66	cps
Silver	107-1	197	210	177	194	8.63	cps
Silver	109-1	87	83	100	90	9.80	cps
Sodium	23-2	17594	17360	16843	17266	2.23	cps
Strontium	86-1	227	313	273	271	16.00	cps
Strontium	88-1	463	550	457	490	10.63	cps
Sulfur	34-1	332972	337057	335243	335091	0.61	cps
Terbium	159-1	13292276	13909905	13040435	13414205	3.34	cps
Terbium	159-2	4374892	4264014	4193064	4277323	2.14	cps
Thallium	203-1	397	310	263	323	20.93	cps
Thallium	205-1	773	730	743	749	2.96	cps
Tin	118-1	1317	1203	1180	1233	5.93	cps
Titanium	47-1	137	123	103	121	13.86	cps
Uranium	238-1	33	23	30	29	17.63	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BL Instrumnet Name : P8
Client Sample ID : PBW174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:22:28 DataFile Name : 058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	17	10	14	26.66	cps
Ytterbium	172-1	43	53	73	57	26.96	cps
Ytterbium	172-2	37	13	17	22	56.80	cps
Ytterbium	176-1	1720	1727	1617	1688	3.65	cps
Ytterbium	176-2	243	230	203	226	9.03	cps
Yttrium	89-1	18807821	19508612	18633515	18983316	2.44	cps
Yttrium	89-2	1340554	1246342	1226751	1271216	4.79	cps
Zinc	66-2	280	380	297	319	16.80	cps
Zirconium	90-1	607	713	630	650	8.63	cps
Zirconium	91-1	133	123	120	126	5.53	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BS Instrumnet Name : P8
Client Sample ID : LCS174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:25:52 DataFile Name : 059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2317	2217	2280	2271	2.23	cps
Antimony	121-1	42355	41433	42389	42059	1.29	cps
Arsenic	75-2	457	440	390	429	8.09	cps
Barium	135-1	55028	54141	54007	54392	1.02	cps
Barium	137-1	94040	95456	94252	94583	0.81	cps
Beryllium	9-1	9023	9065	9193	9094	0.97	cps
Bismuth	209-1	7211903	8082556	8206938	7833799	6.92	cps
Bismuth	209-2	3148717	3383440	3640220	3390792	7.25	cps
Bromine	81-1	5518	5558	5608	5561	0.81	cps
Cadmium	108-1	443	483	513	480	7.32	cps
Cadmium	106-1	5865	6705	6658	6409	7.37	cps
Cadmium	111-1	6367	6517	6610	6498	1.89	cps
Calcium	43-1	44041	44151	43967	44053	0.21	cps
Calcium	44-1	705528	708465	706150	706714	0.22	cps
Carbon	12-1	2521948	2518843	2493238	2511343	0.63	cps
Carbon	12-2	16613	16766	16563	16647	0.64	cps
Chlorine	35-1	975945	1143461	1198181	1105862	10.47	cps
Chlorine	35-2	4544	4711	4818	4691	2.94	cps
Chromium	52-2	9256	9510	9443	9403	1.40	cps
Cobalt	59-2	8786	8519	8596	8634	1.59	cps
Copper	63-2	16750	16750	17127	16876	1.29	cps
Dysprosium	156-1	47	40	67	51	27.15	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	63	80	97	80	20.84	cps
Erbium	164-2	20	43	27	30	40.05	cps
Gadolinium	160-1	53	40	33	42	24.12	cps
Gadolinium	160-2	7	13	0	7	99.98	cps
Holmium	165-1	11644429	12649788	12898979	12397732	5.36	cps
Holmium	165-2	4484112	4843348	5097185	4808215	6.41	cps
Indium	115-1	9257926	10032163	10236975	9842355	5.25	cps
Indium	115-2	971698	1048684	1128586	1049656	7.47	cps
Iron	54-2	39060	38846	37913	38606	1.58	cps
Iron	56-2	708938	712656	712205	711266	0.29	cps
Iron	57-2	18035	17721	17518	17758	1.47	cps
Krypton	83-1	140	177	107	141	24.81	cps
Lead	206-1	19498	19518	19495	19504	0.06	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BS Instrumnet Name : P8
Client Sample ID : LCS174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:25:52 DataFile Name : 059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16941	17195	17081	17072	0.74	cps
Lead	208-1	78066	78617	78403	78362	0.35	cps
Lithium	6-1	5909613	6310592	6361684	6193963	4.00	cps
Magnesium	24-2	169584	168444	165484	167837	1.26	cps
Manganese	55-2	2294	2534	2337	2388	5.36	cps
Molybdenum	94-1	45594	46023	46307	45975	0.78	cps
Molybdenum	95-1	56230	55895	55109	55744	1.03	cps
Molybdenum	96-1	60772	61522	61090	61128	0.62	cps
Molybdenum	97-1	33971	34446	34663	34360	1.03	cps
Molybdenum	98-1	87350	89359	88523	88410	1.14	cps
Neodymium	150-1	53	23	27	34	47.73	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	3367	3304	3167	3279	3.12	cps
Phosphorus	31-2	113	153	110	126	19.21	cps
Potassium	39-2	103605	102212	101275	102364	1.15	cps
Rhodium	103-1	8378948	9250420	9396213	9008527	6.11	cps
Rhodium	103-2	3521214	3880004	4129874	3843698	7.96	cps
Scandium	45-1	6960164	7636118	7697436	7431239	5.51	cps
Scandium	45-2	131607	141736	152951	142098	7.51	cps
Selenium	82-1	1670	1587	1803	1687	6.48	cps
Selenium	77-2	37	47	27	37	27.27	cps
Selenium	78-2	83	127	110	107	20.50	cps
Silicon	28-1	584926	584409	601003	590113	1.60	cps
Silver	107-1	27654	27377	27985	27672	1.10	cps
Silver	109-1	26115	26188	26776	26360	1.38	cps
Sodium	23-2	361347	359359	356644	359116	0.66	cps
Strontium	86-1	8009	7659	7679	7782	2.53	cps
Strontium	88-1	65412	65513	65774	65566	0.28	cps
Sulfur	34-1	336651	339123	340895	338890	0.63	cps
Terbium	159-1	11876639	12992529	13260200	12709789	5.77	cps
Terbium	159-2	4281076	4537688	4944886	4587883	7.30	cps
Thallium	203-1	23144	22803	22500	22816	1.41	cps
Thallium	205-1	54333	54450	54765	54516	0.41	cps
Tin	118-1	91560	92868	93087	92505	0.89	cps
Titanium	47-1	20054	19861	19627	19847	1.08	cps
Uranium	238-1	69539	68896	68654	69030	0.66	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166174BS Instrumnet Name : P8
Client Sample ID : LCS174 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:25:52 DataFile Name : 059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17798	17074	17594	17489	2.14	cps
Ytterbium	172-1	53	53	80	62	24.75	cps
Ytterbium	172-2	10	53	20	28	81.68	cps
Ytterbium	176-1	1513	1733	1823	1690	9.44	cps
Ytterbium	176-2	243	233	273	250	8.33	cps
Yttrium	89-1	17045391	18459226	18702527	18069048	4.95	cps
Yttrium	89-2	1246692	1421228	1527023	1398314	10.12	cps
Zinc	66-2	3897	3831	3781	3836	1.53	cps
Zirconium	90-1	39372	39887	38433	39231	1.88	cps
Zirconium	91-1	8906	8890	8823	8873	0.50	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-01 Instrumnet Name : P8
Client Sample ID : MC0B00 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:29:13 DataFile Name : 060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	693	840	750	761	9.72	cps
Antimony	121-1	313	263	320	299	10.36	cps
Arsenic	75-2	43	87	30	53	55.56	cps
Barium	135-1	310815	312964	313753	312510	0.49	cps
Barium	137-1	538934	542395	544875	542068	0.55	cps
Beryllium	9-1	2017	1964	2047	2009	2.11	cps
Bismuth	209-1	7704231	7566969	7734760	7668654	1.17	cps
Bismuth	209-2	3003326	2987478	3046494	3012432	1.01	cps
Bromine	81-1	74337	95724	108862	92974	18.74	cps
Cadmium	108-1	233	267	197	232	15.08	cps
Cadmium	106-1	6095	6175	6322	6197	1.86	cps
Cadmium	111-1	3703	3742	4014	3819	4.43	cps
Calcium	43-1	2053388	2057174	2095447	2068670	1.12	cps
Calcium	44-1	32811690	32922269	33462674	33065544	1.05	cps
Carbon	12-1	5774607	6789252	7372037	6645299	12.16	cps
Carbon	12-2	53239	54464	55360	54354	1.96	cps
Chlorine	35-1	9432790	10536613	11005280	10324895	7.82	cps
Chlorine	35-2	43214	44418	43559	43730	1.42	cps
Chromium	52-2	11692	11625	11882	11733	1.14	cps
Cobalt	59-2	8413	8072	8016	8167	2.63	cps
Copper	63-2	3937	4124	3914	3992	2.88	cps
Dysprosium	156-1	18586	19571	19685	19281	3.13	cps
Dysprosium	156-2	4854	4774	5168	4932	4.22	cps
Erbium	164-1	11692	11895	12026	11871	1.42	cps
Erbium	164-2	3987	3827	3824	3880	2.41	cps
Gadolinium	160-1	13874	13951	14178	14001	1.13	cps
Gadolinium	160-2	5531	5511	5414	5486	1.14	cps
Holmium	165-1	12913507	12826506	13026642	12922218	0.78	cps
Holmium	165-2	4326753	4364730	4423544	4371676	1.12	cps
Indium	115-1	10056450	9823343	9885922	9921905	1.22	cps
Indium	115-2	937642	934710	941280	937877	0.35	cps
Iron	54-2	2370	2124	2250	2248	5.49	cps
Iron	56-2	31942	32143	32307	32131	0.57	cps
Iron	57-2	943	857	820	873	7.25	cps
Krypton	83-1	187	167	157	170	8.99	cps
Lead	206-1	5324	4818	4778	4973	6.13	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-01 Instrumnet Name : P8
Client Sample ID : MC0B00 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:29:13 DataFile Name : 060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4464	3971	3797	4077	8.49	cps
Lead	208-1	20326	18312	17785	18808	7.13	cps
Lithium	6-1	6229190	6252571	6229586	6237116	0.21	cps
Magnesium	24-2	4101194	4076508	4095230	4090977	0.31	cps
Manganese	55-2	1603886	1579795	1579214	1587631	0.89	cps
Molybdenum	94-1	703	743	747	731	3.30	cps
Molybdenum	95-1	833	823	843	833	1.20	cps
Molybdenum	96-1	940	750	883	858	11.37	cps
Molybdenum	97-1	487	490	480	486	1.05	cps
Molybdenum	98-1	1160	1230	1183	1191	2.99	cps
Neodymium	150-1	24001	24349	24312	24221	0.79	cps
Neodymium	150-2	5728	5968	6061	5919	2.91	cps
Nickel	60-2	11281	11541	11481	11435	1.19	cps
Phosphorus	31-2	47	50	40	46	11.18	cps
Potassium	39-2	463199	458331	467268	462932	0.97	cps
Rhodium	103-1	8873364	8931132	8868220	8890906	0.39	cps
Rhodium	103-2	3345346	3368642	3343981	3352656	0.41	cps
Scandium	45-1	7635528	7674671	7789714	7699971	1.04	cps
Scandium	45-2	128071	128908	130879	129286	1.11	cps
Selenium	82-1	523	583	710	606	15.74	cps
Selenium	77-2	20	30	27	26	19.92	cps
Selenium	78-2	30	33	53	39	32.45	cps
Silicon	28-1	51859966	52017933	53169896	52349265	1.37	cps
Silver	107-1	650	463	463	526	20.51	cps
Silver	109-1	387	393	297	359	15.04	cps
Sodium	23-2	22374591	22272318	22231618	22292842	0.33	cps
Strontium	86-1	1239953	1250830	1263678	1251487	0.95	cps
Strontium	88-1	11199374	11197354	11269846	11222191	0.37	cps
Sulfur	34-1	1025544	1034797	1047104	1035815	1.04	cps
Terbium	159-1	13267344	12848285	13065929	13060520	1.60	cps
Terbium	159-2	4257591	4191220	4180253	4209688	0.99	cps
Thallium	203-1	6091	6038	6102	6077	0.56	cps
Thallium	205-1	14588	14682	14869	14713	0.97	cps
Tin	118-1	5018	4888	5041	4982	1.66	cps
Titanium	47-1	1347	1530	1373	1417	6.99	cps
Uranium	238-1	237	210	223	223	5.97	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-01 Instrumnet Name : P8
Client Sample ID : MC0B00 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:29:13 DataFile Name : 060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	100	103	77	93	15.56	cps
Ytterbium	172-1	3691	3337	3467	3498	5.11	cps
Ytterbium	172-2	1317	1450	1280	1349	6.63	cps
Ytterbium	176-1	3854	3697	3984	3845	3.73	cps
Ytterbium	176-2	960	983	1037	993	3.96	cps
Yttrium	89-1	19389502	19191365	18858691	19146520	1.40	cps
Yttrium	89-2	1263489	1250709	1262003	1258733	0.56	cps
Zinc	66-2	3377	3384	3504	3422	2.08	cps
Zirconium	90-1	850	877	923	883	4.20	cps
Zirconium	91-1	227	200	190	206	9.22	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02 Instrumnet Name : P8
Client Sample ID : MC0B01 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:32:35 DataFile Name : 061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6782	6645	7155	6861	3.85	cps
Antimony	121-1	300	303	293	299	1.70	cps
Arsenic	75-2	67	57	63	62	8.18	cps
Barium	135-1	295158	297553	299809	297507	0.78	cps
Barium	137-1	510393	516138	521291	515941	1.06	cps
Beryllium	9-1	722	704	701	709	1.64	cps
Bismuth	209-1	7762377	7891273	7350454	7668035	3.68	cps
Bismuth	209-2	3165255	3087138	3074996	3109130	1.58	cps
Bromine	81-1	35027	36484	36735	36082	2.56	cps
Cadmium	108-1	40	53	37	43	20.34	cps
Cadmium	106-1	6065	5671	6018	5918	3.63	cps
Cadmium	111-1	1388	1284	1358	1343	4.01	cps
Calcium	43-1	1130225	1150761	1163261	1148083	1.45	cps
Calcium	44-1	19068585	19316083	19441834	19275501	0.99	cps
Carbon	12-1	6727059	7587468	8099089	7471205	9.28	cps
Carbon	12-2	56505	56357	58238	57033	1.83	cps
Chlorine	35-1	3158681	3328479	3488314	3325158	4.96	cps
Chlorine	35-2	13290	13723	13506	13506	1.61	cps
Chromium	52-2	3197	3217	3337	3250	2.33	cps
Cobalt	59-2	843	907	733	828	10.60	cps
Copper	63-2	3490	3530	3570	3530	1.13	cps
Dysprosium	156-1	7626	7656	7522	7601	0.92	cps
Dysprosium	156-2	3084	3007	2984	3025	1.73	cps
Erbium	164-1	7175	7325	7385	7295	1.48	cps
Erbium	164-2	2420	2450	2294	2388	3.48	cps
Gadolinium	160-1	8736	8379	9026	8714	3.72	cps
Gadolinium	160-2	3400	3400	3511	3437	1.85	cps
Holmium	165-1	12917290	12936979	12086169	12646813	3.84	cps
Holmium	165-2	4538419	4457587	4501697	4499234	0.90	cps
Indium	115-1	9971281	10068127	9520015	9853141	2.97	cps
Indium	115-2	970396	974396	969687	971493	0.26	cps
Iron	54-2	31067	31485	31839	31464	1.23	cps
Iron	56-2	577883	582099	572040	577340	0.87	cps
Iron	57-2	14311	14621	14264	14398	1.35	cps
Krypton	83-1	127	180	120	142	23.12	cps
Lead	206-1	2384	2214	1990	2196	8.99	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02 Instrumnet Name : P8
Client Sample ID : MC0B01 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:32:35 DataFile Name : 061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1870	1887	1873	1877	0.47	cps
Lead	208-1	8825	8845	8401	8690	2.88	cps
Lithium	6-1	6210535	6219987	6033761	6154761	1.70	cps
Magnesium	24-2	2967425	2950220	2955687	2957777	0.30	cps
Manganese	55-2	8279	8396	8056	8244	2.10	cps
Molybdenum	94-1	1603	1780	1827	1737	6.78	cps
Molybdenum	95-1	600	563	623	596	5.08	cps
Molybdenum	96-1	993	1083	903	993	9.06	cps
Molybdenum	97-1	353	367	403	374	6.91	cps
Molybdenum	98-1	1010	1060	1093	1054	3.98	cps
Neodymium	150-1	11625	11775	12342	11914	3.18	cps
Neodymium	150-2	2810	2744	2850	2801	1.92	cps
Nickel	60-2	1923	1863	1933	1907	1.99	cps
Phosphorus	31-2	63	60	37	53	27.24	cps
Potassium	39-2	332333	334733	328711	331925	0.91	cps
Rhodium	103-1	9001101	9103985	8593822	8899636	3.03	cps
Rhodium	103-2	3459814	3554417	3514161	3509464	1.35	cps
Scandium	45-1	7571755	7776254	7294246	7547418	3.21	cps
Scandium	45-2	133802	133903	133140	133615	0.31	cps
Selenium	82-1	770	757	843	790	5.91	cps
Selenium	77-2	17	50	23	30	58.79	cps
Selenium	78-2	50	93	70	71	30.50	cps
Silicon	28-1	47119321	46869704	47669219	47219415	0.87	cps
Silver	107-1	200	203	193	199	2.56	cps
Silver	109-1	110	127	93	110	15.15	cps
Sodium	23-2	8029495	7984485	7974081	7996020	0.37	cps
Strontium	86-1	463043	465112	467939	465365	0.53	cps
Strontium	88-1	4188847	4195773	4269732	4218117	1.06	cps
Sulfur	34-1	1135969	1160257	1154935	1150387	1.11	cps
Terbium	159-1	12976119	13310990	12469262	12918790	3.28	cps
Terbium	159-2	4347866	4371042	4330913	4349940	0.46	cps
Thallium	203-1	657	643	737	679	7.44	cps
Thallium	205-1	1767	1550	1560	1626	7.52	cps
Tin	118-1	2514	2364	2490	2456	3.29	cps
Titanium	47-1	6632	6752	6675	6686	0.91	cps
Uranium	238-1	470	453	493	472	4.25	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02 Instrumnet Name : P8
Client Sample ID : MC0B01 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:32:35 DataFile Name : 061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	897	863	940	900	4.27	cps
Ytterbium	172-1	1954	2210	2180	2115	6.64	cps
Ytterbium	172-2	937	840	787	854	8.90	cps
Ytterbium	176-1	2944	2924	3067	2978	2.61	cps
Ytterbium	176-2	800	757	713	757	5.73	cps
Yttrium	89-1	18796472	18907852	18107491	18603938	2.33	cps
Yttrium	89-2	1278257	1286211	1280618	1281695	0.32	cps
Zinc	66-2	1247	1367	1300	1305	4.61	cps
Zirconium	90-1	3984	3784	3701	3823	3.81	cps
Zirconium	91-1	893	977	950	940	4.53	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-03 Instrumnet Name : P8
Client Sample ID : MC0B01D Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:35:52 DataFile Name : 062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7122	7262	7262	7215	1.12	cps
Antimony	121-1	270	233	310	271	14.14	cps
Arsenic	75-2	40	43	50	44	11.46	cps
Barium	135-1	293267	296924	299980	296724	1.13	cps
Barium	137-1	512991	519321	516443	516252	0.61	cps
Beryllium	9-1	656	706	685	682	3.68	cps
Bismuth	209-1	7802560	8035884	7871709	7903384	1.52	cps
Bismuth	209-2	3115937	3081856	3063780	3087191	0.86	cps
Bromine	81-1	26836	29364	32214	29471	9.13	cps
Cadmium	108-1	57	23	50	43	40.71	cps
Cadmium	106-1	6208	6208	6275	6230	0.62	cps
Cadmium	111-1	1372	1432	1393	1399	2.17	cps
Calcium	43-1	1138842	1156338	1163873	1153018	1.11	cps
Calcium	44-1	19046498	19204773	19495176	19248816	1.18	cps
Carbon	12-1	7094405	8010333	8573238	7892659	9.46	cps
Carbon	12-2	60380	60798	61130	60769	0.62	cps
Chlorine	35-1	2911988	3261287	3353577	3175617	7.33	cps
Chlorine	35-2	12569	12712	13316	12866	3.08	cps
Chromium	52-2	3414	3327	3127	3289	4.47	cps
Cobalt	59-2	857	863	957	892	6.27	cps
Copper	63-2	3544	3724	3564	3610	2.73	cps
Dysprosium	156-1	7649	7589	7472	7570	1.19	cps
Dysprosium	156-2	2937	3037	2870	2948	2.85	cps
Erbium	164-1	7492	7272	7506	7423	1.77	cps
Erbium	164-2	2477	2390	2650	2506	5.28	cps
Gadolinium	160-1	8623	8790	8469	8627	1.86	cps
Gadolinium	160-2	3544	3377	3394	3438	2.67	cps
Holmium	165-1	12883992	12912681	13176766	12991146	1.24	cps
Holmium	165-2	4459785	4399124	4440926	4433278	0.70	cps
Indium	115-1	9990942	10207245	10215243	10137810	1.26	cps
Indium	115-2	953949	949511	955410	952957	0.32	cps
Iron	54-2	30880	31688	31281	31283	1.29	cps
Iron	56-2	572566	579934	576057	576185	0.64	cps
Iron	57-2	14938	14387	14544	14623	1.94	cps
Krypton	83-1	103	147	167	139	23.31	cps
Lead	206-1	1997	2217	2154	2122	5.34	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-03 Instrumnet Name : P8
Client Sample ID : MC0B01D Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:35:52 DataFile Name : 062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1753	1713	1743	1737	1.20	cps
Lead	208-1	8118	8258	8051	8142	1.30	cps
Lithium	6-1	6175312	6240761	6255388	6223820	0.69	cps
Magnesium	24-2	3005008	2976881	2944574	2975488	1.02	cps
Manganese	55-2	7599	7812	7669	7693	1.41	cps
Molybdenum	94-1	1730	1567	1753	1683	6.04	cps
Molybdenum	95-1	593	603	663	620	6.11	cps
Molybdenum	96-1	890	990	957	946	5.39	cps
Molybdenum	97-1	393	403	447	414	6.84	cps
Molybdenum	98-1	1013	987	1060	1020	3.64	cps
Neodymium	150-1	11685	11939	11615	11746	1.45	cps
Neodymium	150-2	2847	2920	2804	2857	2.06	cps
Nickel	60-2	1780	1793	1903	1826	3.71	cps
Phosphorus	31-2	73	63	67	68	7.51	cps
Potassium	39-2	329358	328933	326957	328416	0.39	cps
Rhodium	103-1	9099118	9161735	9143887	9134913	0.35	cps
Rhodium	103-2	3443939	3377254	3506915	3442703	1.88	cps
Scandium	45-1	7804787	7783117	7744003	7777302	0.40	cps
Scandium	45-2	129598	130600	130001	130066	0.39	cps
Selenium	82-1	730	770	753	751	2.67	cps
Selenium	77-2	17	27	10	18	47.19	cps
Selenium	78-2	43	43	47	44	4.34	cps
Silicon	28-1	47366129	47337711	47429853	47377898	0.10	cps
Silver	107-1	147	227	190	188	21.33	cps
Silver	109-1	70	87	110	89	22.60	cps
Sodium	23-2	8116051	7914997	7968709	7999919	1.30	cps
Strontium	86-1	467498	468085	472259	469281	0.55	cps
Strontium	88-1	4242932	4273220	4253111	4256421	0.36	cps
Sulfur	34-1	1138289	1148762	1147232	1144761	0.49	cps
Terbium	159-1	13080653	13203391	13332168	13205404	0.95	cps
Terbium	159-2	4194980	4311935	4262134	4256350	1.38	cps
Thallium	203-1	610	570	597	592	3.44	cps
Thallium	205-1	1380	1523	1463	1456	4.95	cps
Tin	118-1	2467	2347	2447	2420	2.66	cps
Titanium	47-1	6872	6815	6785	6824	0.65	cps
Uranium	238-1	440	507	473	473	7.04	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-03 Instrumnet Name : P8
Client Sample ID : MC0B01D Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:35:52 DataFile Name : 062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	947	923	1000	957	4.11	cps
Ytterbium	172-1	2180	2184	2370	2245	4.85	cps
Ytterbium	172-2	843	787	737	789	6.77	cps
Ytterbium	176-1	2940	3110	3070	3040	2.92	cps
Ytterbium	176-2	703	780	817	767	7.54	cps
Yttrium	89-1	19095972	19273189	19266577	19211913	0.52	cps
Yttrium	89-2	1253358	1251887	1260422	1255222	0.36	cps
Zinc	66-2	1223	1320	1220	1255	4.53	cps
Zirconium	90-1	3717	3897	3937	3851	3.04	cps
Zirconium	91-1	787	1003	870	887	12.33	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02LX5 Instrumnet Name : P8
Client Sample ID : MC0B01L Dilution Factor : 5
Date & Time Acquired : 2025-01-24 13:39:10 DataFile Name : 063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1627	1533	1630	1597	3.44	cps
Antimony	121-1	150	210	147	169	21.10	cps
Arsenic	75-2	7	20	13	13	49.99	cps
Barium	135-1	59988	61258	60032	60426	1.19	cps
Barium	137-1	104432	105950	104221	104868	0.90	cps
Beryllium	9-1	366	377	416	387	6.78	cps
Bismuth	209-1	8152038	8104036	8158839	8138304	0.37	cps
Bismuth	209-2	2574386	2860100	3234442	2889642	11.46	cps
Bromine	81-1	14858	14888	14354	14700	2.04	cps
Cadmium	108-1	30	33	37	33	10.01	cps
Cadmium	106-1	5935	6011	5745	5897	2.33	cps
Cadmium	111-1	1226	1232	1160	1206	3.32	cps
Calcium	43-1	233593	235421	236005	235007	0.54	cps
Calcium	44-1	3944792	3958585	3944580	3949319	0.20	cps
Carbon	12-1	3781295	3761935	3710487	3751239	0.98	cps
Carbon	12-2	24824	24230	24367	24474	1.27	cps
Chlorine	35-1	863892	883192	888336	878473	1.47	cps
Chlorine	35-2	3430	3260	3457	3383	3.15	cps
Chromium	52-2	1097	1130	1060	1096	3.20	cps
Cobalt	59-2	247	210	257	238	10.33	cps
Copper	63-2	2464	2517	2630	2537	3.36	cps
Dysprosium	156-1	1520	1443	1520	1495	2.96	cps
Dysprosium	156-2	557	587	633	592	6.52	cps
Erbium	164-1	1537	1610	1557	1568	2.42	cps
Erbium	164-2	493	540	440	491	10.19	cps
Gadolinium	160-1	1777	1797	1730	1768	1.94	cps
Gadolinium	160-2	750	737	787	758	3.42	cps
Holmium	165-1	12742096	13101667	12782428	12875397	1.53	cps
Holmium	165-2	3784555	4029415	4542760	4118910	9.39	cps
Indium	115-1	10268109	10304906	10371369	10314794	0.51	cps
Indium	115-2	807973	872706	980503	887061	9.83	cps
Iron	54-2	6608	6795	6708	6704	1.39	cps
Iron	56-2	121495	121976	119253	120908	1.20	cps
Iron	57-2	3044	3014	2960	3006	1.40	cps
Krypton	83-1	123	107	97	109	12.37	cps
Lead	206-1	1503	1417	1403	1441	3.77	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02LX5 Instrumnet Name : P8
Client Sample ID : MC0B01L Dilution Factor : 5
Date & Time Acquired : 2025-01-24 13:39:10 DataFile Name : 063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1247	1273	1120	1213	6.75	cps
Lead	208-1	5737	5597	5511	5615	2.04	cps
Lithium	6-1	6335256	6329612	6277476	6314115	0.50	cps
Magnesium	24-2	578352	580998	574156	577835	0.60	cps
Manganese	55-2	1707	1800	1883	1797	4.92	cps
Molybdenum	94-1	593	630	600	608	3.21	cps
Molybdenum	95-1	300	267	243	270	10.55	cps
Molybdenum	96-1	320	383	390	364	10.60	cps
Molybdenum	97-1	133	130	167	143	14.15	cps
Molybdenum	98-1	397	357	437	397	10.08	cps
Neodymium	150-1	2414	2254	2304	2324	3.52	cps
Neodymium	150-2	597	620	623	613	2.37	cps
Nickel	60-2	913	970	1087	990	8.93	cps
Phosphorus	31-2	43	37	67	49	32.22	cps
Potassium	39-2	70601	72062	71871	71511	1.11	cps
Rhodium	103-1	9238898	9495726	9506101	9413575	1.61	cps
Rhodium	103-2	2925611	3119210	3655321	3233381	11.69	cps
Scandium	45-1	7793489	7786724	7758248	7779487	0.24	cps
Scandium	45-2	109466	118774	132988	120409	9.84	cps
Selenium	82-1	203	180	167	183	10.12	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	13	17	20	17	20.01	cps
Silicon	28-1	9701321	9854308	9844888	9800172	0.87	cps
Silver	107-1	100	147	143	130	20.03	cps
Silver	109-1	30	47	47	41	23.41	cps
Sodium	23-2	1645516	1661473	1614290	1640426	1.46	cps
Strontium	86-1	96503	94020	95000	95174	1.31	cps
Strontium	88-1	819377	810559	811857	813931	0.58	cps
Sulfur	34-1	518209	518332	519346	518629	0.12	cps
Terbium	159-1	13363592	13510410	13343265	13405756	0.68	cps
Terbium	159-2	3540221	3903094	4370604	3937973	10.57	cps
Thallium	203-1	380	387	350	372	5.25	cps
Thallium	205-1	1023	1050	1007	1027	2.13	cps
Tin	118-1	1570	1600	1473	1548	4.28	cps
Titanium	47-1	1507	1460	1583	1517	4.11	cps
Uranium	238-1	103	107	107	106	1.82	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-02LX5 Instrumnet Name : P8
Client Sample ID : MC0B01L Dilution Factor : 5
Date & Time Acquired : 2025-01-24 13:39:10 DataFile Name : 063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	143	190	180	171	14.36	cps
Ytterbium	172-1	493	573	433	500	14.05	cps
Ytterbium	172-2	163	200	200	188	11.27	cps
Ytterbium	176-1	1950	1897	2010	1952	2.90	cps
Ytterbium	176-2	310	297	337	314	6.48	cps
Yttrium	89-1	18777311	19026632	19059773	18954572	0.81	cps
Yttrium	89-2	1047152	1126668	1276501	1150107	10.13	cps
Zinc	66-2	583	443	507	511	13.72	cps
Zirconium	90-1	1247	1173	1340	1253	6.67	cps
Zirconium	91-1	350	247	227	274	24.12	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-04 Instrumnet Name : P8
Client Sample ID : MC0B01S Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:42:30 DataFile Name : 064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	107674	108303	107440	107806	0.41	cps
Antimony	121-1	1029035	1048921	1065052	1047670	1.72	cps
Arsenic	75-2	7902	7749	8116	7922	2.33	cps
Barium	135-1	6048173	6077304	6052152	6059210	0.26	cps
Barium	137-1	10251898	10318544	10469953	10346798	1.08	cps
Beryllium	9-1	206619	209627	211738	209328	1.23	cps
Bismuth	209-1	7440321	8319887	8205766	7988658	5.99	cps
Bismuth	209-2	3133618	3128000	3123112	3128243	0.17	cps
Bromine	81-1	21190	24688	27089	24323	12.20	cps
Cadmium	108-1	9130	9150	9250	9176	0.70	cps
Cadmium	106-1	18045	18883	18683	18537	2.36	cps
Cadmium	111-1	129732	131706	133114	131518	1.29	cps
Calcium	43-1	1126126	1143516	1157063	1142235	1.36	cps
Calcium	44-1	18682106	18871593	19301880	18951860	1.68	cps
Carbon	12-1	6493755	7529428	8098784	7373989	11.04	cps
Carbon	12-2	57589	58720	59640	58650	1.75	cps
Chlorine	35-1	30043055	32297148	33091146	31810450	4.97	cps
Chlorine	35-2	129295	132779	131568	131214	1.35	cps
Chromium	52-2	472931	478747	473711	475130	0.66	cps
Cobalt	59-2	2285316	2302842	2294781	2294313	0.38	cps
Copper	63-2	835565	839432	839177	838058	0.26	cps
Dysprosium	156-1	7322	7879	7686	7629	3.71	cps
Dysprosium	156-2	3177	3024	2904	3035	4.52	cps
Erbium	164-1	7352	7315	7262	7310	0.62	cps
Erbium	164-2	2540	2327	2480	2449	4.49	cps
Gadolinium	160-1	8323	9173	8503	8666	5.17	cps
Gadolinium	160-2	3584	3367	3444	3465	3.17	cps
Holmium	165-1	12329979	13661392	13425333	13138901	5.41	cps
Holmium	165-2	4545235	4516142	4520132	4527170	0.35	cps
Indium	115-1	9495743	10775230	10582799	10284591	6.71	cps
Indium	115-2	986668	986713	987871	987084	0.07	cps
Iron	54-2	148735	147017	147226	147659	0.63	cps
Iron	56-2	2586311	2618016	2531616	2578648	1.69	cps
Iron	57-2	61438	61278	60909	61208	0.44	cps
Krypton	83-1	133	147	143	141	4.92	cps
Lead	206-1	177189	179882	183800	180291	1.84	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-04 Instrumnet Name : P8
Client Sample ID : MC0B01S Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:42:30 DataFile Name : 064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	153437	156746	157380	155854	1.36	cps
Lead	208-1	706618	717771	729527	717972	1.60	cps
Lithium	6-1	6017338	6573431	6461595	6350788	4.63	cps
Magnesium	24-2	2977098	2986975	3003530	2989201	0.45	cps
Manganese	55-2	523842	518051	520905	520932	0.56	cps
Molybdenum	94-1	1977	2050	5310	3112	61.17	cps
Molybdenum	95-1	1043	1123	1137	1101	4.58	cps
Molybdenum	96-1	1483	1490	1620	1531	5.03	cps
Molybdenum	97-1	547	590	520	552	6.40	cps
Molybdenum	98-1	1710	1750	1667	1709	2.44	cps
Neodymium	150-1	11925	12119	12082	12042	0.85	cps
Neodymium	150-2	2787	2740	3010	2846	5.07	cps
Nickel	60-2	591037	591992	589537	590855	0.21	cps
Phosphorus	31-2	33	70	67	57	35.79	cps
Potassium	39-2	333138	337119	337678	335978	0.74	cps
Rhodium	103-1	8544501	9763503	9574731	9294245	7.06	cps
Rhodium	103-2	3530858	3521302	3561856	3538005	0.60	cps
Scandium	45-1	7347775	8126827	8001876	7825493	5.35	cps
Scandium	45-2	136925	136107	135706	136246	0.46	cps
Selenium	82-1	17628	18149	17992	17923	1.49	cps
Selenium	77-2	327	293	317	312	5.48	cps
Selenium	78-2	1157	1013	1123	1098	6.83	cps
Silicon	28-1	46420881	47043781	47719676	47061446	1.38	cps
Silver	107-1	681790	692866	700209	691622	1.34	cps
Silver	109-1	644919	659114	669938	657990	1.91	cps
Sodium	23-2	8046707	7984908	8176173	8069263	1.21	cps
Strontium	86-1	459269	467254	466241	464255	0.94	cps
Strontium	88-1	4134796	4149782	4248990	4177856	1.49	cps
Sulfur	34-1	1108540	1115563	1094772	1106292	0.96	cps
Terbium	159-1	12614666	13989089	13594146	13399301	5.28	cps
Terbium	159-2	4404674	4372629	4404309	4393871	0.42	cps
Thallium	203-1	546646	554550	559762	553653	1.19	cps
Thallium	205-1	1290549	1318019	1326167	1311578	1.42	cps
Tin	118-1	4037	3954	4191	4061	2.96	cps
Titanium	47-1	7933	6832	7556	7440	7.52	cps
Uranium	238-1	450	613	460	508	18.03	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-04 Instrumnet Name : P8
Client Sample ID : MC0B01S Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:42:30 DataFile Name : 064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	910924	916746	913151	913607	0.32	cps
Ytterbium	172-1	2064	2214	2250	2176	4.55	cps
Ytterbium	172-2	863	907	787	852	7.13	cps
Ytterbium	176-1	2820	3027	2870	2906	3.71	cps
Ytterbium	176-2	693	737	707	712	3.12	cps
Yttrium	89-1	18188376	20142200	20029538	19453372	5.64	cps
Yttrium	89-2	1308807	1300773	1304113	1304564	0.31	cps
Zinc	66-2	173164	172799	173248	173070	0.14	cps
Zirconium	90-1	4054	4057	4515	4209	6.30	cps
Zirconium	91-1	950	1000	1047	999	4.84	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-05 Instrumnet Name : P8
Client Sample ID : MC0B06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:45:44 DataFile Name : 065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	400	407	383	397	3.03	cps
Antimony	121-1	417	350	347	371	10.64	cps
Arsenic	75-2	100	63	83	82	22.33	cps
Barium	135-1	297761	297458	298617	297946	0.20	cps
Barium	137-1	517459	518176	515365	517000	0.28	cps
Beryllium	9-1	659	686	715	687	4.10	cps
Bismuth	209-1	7668426	8436959	7701456	7935614	5.48	cps
Bismuth	209-2	2979692	3055166	3037407	3024088	1.30	cps
Bromine	81-1	136828	172919	200414	170054	18.75	cps
Cadmium	108-1	103	137	127	122	14.00	cps
Cadmium	106-1	5755	6575	6095	6141	6.71	cps
Cadmium	111-1	2509	2593	2567	2556	1.69	cps
Calcium	43-1	1349386	1341245	1305057	1331896	1.77	cps
Calcium	44-1	21467416	21214630	21439885	21373977	0.65	cps
Carbon	12-1	9150695	10180273	10896572	10075847	8.71	cps
Carbon	12-2	75211	75311	76005	75509	0.57	cps
Chlorine	35-1	8291040	8749170	8755735	8598648	3.10	cps
Chlorine	35-2	32887	33051	33769	33236	1.41	cps
Chromium	52-2	2287	2267	2224	2259	1.43	cps
Cobalt	59-2	23409	22855	22197	22821	2.66	cps
Copper	63-2	3727	4221	4021	3989	6.22	cps
Dysprosium	156-1	11171	11365	11535	11357	1.60	cps
Dysprosium	156-2	3661	3521	3397	3526	3.74	cps
Erbium	164-1	8353	8343	8596	8431	1.70	cps
Erbium	164-2	2680	2534	2797	2670	4.94	cps
Gadolinium	160-1	10271	10377	10468	10372	0.95	cps
Gadolinium	160-2	4311	4127	4154	4197	2.36	cps
Holmium	165-1	12397456	13869498	12878758	13048571	5.75	cps
Holmium	165-2	4347866	4447889	4473805	4423187	1.50	cps
Indium	115-1	9806408	10796574	10186959	10263314	4.87	cps
Indium	115-2	945690	949819	977423	957644	1.80	cps
Iron	54-2	70295	71193	70948	70812	0.66	cps
Iron	56-2	1307853	1312682	1305367	1308634	0.28	cps
Iron	57-2	32691	32283	31809	32261	1.37	cps
Krypton	83-1	210	127	143	160	27.56	cps
Lead	206-1	1870	1984	1797	1883	4.99	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-05 Instrumnet Name : P8
Client Sample ID : MC0B06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:45:44 DataFile Name : 065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1703	1633	1640	1659	2.33	cps
Lead	208-1	7701	7848	7548	7699	1.95	cps
Lithium	6-1	6068139	6610522	6268743	6315801	4.34	cps
Magnesium	24-2	4795077	4776330	4719413	4763607	0.83	cps
Manganese	55-2	965952	976139	962857	968316	0.72	cps
Molybdenum	94-1	717	750	733	733	2.27	cps
Molybdenum	95-1	800	830	783	804	2.94	cps
Molybdenum	96-1	833	800	810	814	2.10	cps
Molybdenum	97-1	360	467	393	407	13.42	cps
Molybdenum	98-1	1057	1027	960	1014	4.88	cps
Neodymium	150-1	16814	16687	16677	16726	0.46	cps
Neodymium	150-2	4061	3894	3997	3984	2.11	cps
Nickel	60-2	2564	2387	2210	2387	7.40	cps
Phosphorus	31-2	67	90	57	71	24.05	cps
Potassium	39-2	250652	254171	253408	252744	0.73	cps
Rhodium	103-1	8903100	9687017	9071138	9220418	4.48	cps
Rhodium	103-2	3445515	3398082	3538017	3460538	2.06	cps
Scandium	45-1	7662040	8300507	7796521	7919689	4.25	cps
Scandium	45-2	129645	131461	134802	131969	1.98	cps
Selenium	82-1	60	123	147	110	40.76	cps
Selenium	77-2	3	23	17	14	70.51	cps
Selenium	78-2	13	17	20	17	20.01	cps
Silicon	28-1	85977162	85484542	85798972	85753559	0.29	cps
Silver	107-1	610	633	507	583	11.56	cps
Silver	109-1	593	537	367	499	23.64	cps
Sodium	23-2	13207811	13457956	13432934	13366234	1.03	cps
Strontium	86-1	673904	681507	679088	678166	0.57	cps
Strontium	88-1	6144054	6160575	6018513	6107714	1.27	cps
Sulfur	34-1	1523131	1495527	1518570	1512409	0.98	cps
Terbium	159-1	12879654	14062979	13210717	13384450	4.56	cps
Terbium	159-2	4252992	4183355	4367283	4267877	2.18	cps
Thallium	203-1	2070	2067	2170	2102	2.79	cps
Thallium	205-1	4811	4644	4591	4682	2.45	cps
Tin	118-1	36552	34975	35593	35707	2.23	cps
Titanium	47-1	1747	1870	1830	1816	3.47	cps
Uranium	238-1	603	593	550	582	4.87	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-05 Instrumnet Name : P8
Client Sample ID : MC0B06 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:45:44 DataFile Name : 065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	123	140	120	128	8.39	cps
Ytterbium	172-1	2660	2860	2527	2683	6.26	cps
Ytterbium	172-2	1060	1087	1150	1099	4.21	cps
Ytterbium	176-1	3300	3417	3324	3347	1.84	cps
Ytterbium	176-2	800	907	853	853	6.25	cps
Yttrium	89-1	18746128	20494759	19133455	19458114	4.72	cps
Yttrium	89-2	1258380	1254263	1303996	1272213	2.17	cps
Zinc	66-2	5314	4861	4874	5016	5.14	cps
Zirconium	90-1	763	927	933	874	11.01	cps
Zirconium	91-1	240	210	217	222	7.09	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-06 Instrumnet Name : P8
Client Sample ID : MC0B07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:49:00 DataFile Name : 066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	283	317	243	281	13.06	cps
Antimony	121-1	150	123	103	126	18.65	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	707	707	797	737	7.05	cps
Barium	137-1	1230	1160	1307	1232	5.95	cps
Beryllium	9-1	340	299	320	320	6.45	cps
Bismuth	209-1	8341073	8038659	8017551	8132428	2.23	cps
Bismuth	209-2	3149624	3104031	3168625	3140760	1.06	cps
Bromine	81-1	44066	38476	33420	38654	13.78	cps
Cadmium	108-1	43	23	33	33	30.00	cps
Cadmium	106-1	5978	5821	5891	5897	1.33	cps
Cadmium	111-1	1202	1205	1175	1194	1.38	cps
Calcium	43-1	880	867	957	901	5.39	cps
Calcium	44-1	15859	16179	16593	16210	2.27	cps
Carbon	12-1	4908921	5613020	5945511	5489151	9.64	cps
Carbon	12-2	42307	43728	42882	42973	1.66	cps
Chlorine	35-1	1361967	1298967	1262955	1307963	3.83	cps
Chlorine	35-2	4377	4301	4264	4314	1.34	cps
Chromium	52-2	1933	1823	1897	1885	2.97	cps
Cobalt	59-2	237	287	300	274	12.17	cps
Copper	63-2	3307	3400	3200	3303	3.03	cps
Dysprosium	156-1	90	87	63	80	18.17	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	50	60	90	67	31.22	cps
Erbium	164-2	33	23	23	27	21.65	cps
Gadolinium	160-1	27	50	60	46	37.54	cps
Gadolinium	160-2	7	13	10	10	33.30	cps
Holmium	165-1	13248559	13106901	12821217	13058893	1.67	cps
Holmium	165-2	4448111	4354128	4402653	4401630	1.07	cps
Indium	115-1	10374897	10356904	10440740	10390847	0.42	cps
Indium	115-2	958561	961779	960028	960123	0.17	cps
Iron	54-2	1693	1680	1613	1662	2.58	cps
Iron	56-2	29387	29551	29374	29437	0.33	cps
Iron	57-2	697	783	707	729	6.51	cps
Krypton	83-1	130	123	133	129	3.95	cps
Lead	206-1	1393	1470	1527	1463	4.57	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-06 Instrumnet Name : P8
Client Sample ID : MC0B07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:49:00 DataFile Name : 066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1343	1297	1233	1291	4.28	cps
Lead	208-1	5911	5731	5941	5861	1.94	cps
Lithium	6-1	6291791	6059730	6259457	6203659	2.03	cps
Magnesium	24-2	800	793	683	759	8.63	cps
Manganese	55-2	8863	8966	9063	8964	1.12	cps
Molybdenum	94-1	490	497	623	537	14.00	cps
Molybdenum	95-1	477	447	517	480	7.32	cps
Molybdenum	96-1	553	593	577	574	3.50	cps
Molybdenum	97-1	247	297	300	281	10.63	cps
Molybdenum	98-1	603	803	673	693	14.64	cps
Neodymium	150-1	30	33	27	30	11.10	cps
Neodymium	150-2	0	0	10	3	173.21	cps
Nickel	60-2	1257	1180	1267	1235	3.84	cps
Phosphorus	31-2	33	17	47	32	46.65	cps
Potassium	39-2	6632	6522	6718	6624	1.49	cps
Rhodium	103-1	9588339	9519205	9462323	9523289	0.66	cps
Rhodium	103-2	3508490	3514178	3525275	3515981	0.24	cps
Scandium	45-1	7829334	7727821	7644454	7733869	1.20	cps
Scandium	45-2	130644	130102	129288	130011	0.52	cps
Selenium	82-1	-10	3	-7	-4	-156.10	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	10	10	8	49.52	cps
Silicon	28-1	440144	449886	457333	449121	1.92	cps
Silver	107-1	177	177	213	189	11.21	cps
Silver	109-1	80	120	110	103	20.15	cps
Sodium	23-2	33174	32927	33164	33089	0.42	cps
Strontium	86-1	403	333	277	338	18.78	cps
Strontium	88-1	1530	1777	1610	1639	7.68	cps
Sulfur	34-1	326542	324276	329386	326735	0.78	cps
Terbium	159-1	13218042	13158531	13217553	13198042	0.26	cps
Terbium	159-2	4247973	4283138	4275511	4268874	0.43	cps
Thallium	203-1	363	347	377	362	4.15	cps
Thallium	205-1	1020	960	850	943	9.14	cps
Tin	118-1	28613	28878	28186	28559	1.22	cps
Titanium	47-1	257	210	217	228	11.08	cps
Uranium	238-1	67	47	40	51	27.15	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-06 Instrumnet Name : P8
Client Sample ID : MC0B07 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:49:00 DataFile Name : 066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	17	10	18	47.19	cps
Ytterbium	172-1	100	80	63	81	22.64	cps
Ytterbium	172-2	30	37	33	33	10.01	cps
Ytterbium	176-1	1643	1630	1610	1628	1.03	cps
Ytterbium	176-2	210	257	233	233	10.00	cps
Yttrium	89-1	18981337	18970153	18913674	18955054	0.19	cps
Yttrium	89-2	1225950	1233163	1230579	1229897	0.30	cps
Zinc	66-2	1563	1480	1373	1472	6.47	cps
Zirconium	90-1	667	587	697	650	8.75	cps
Zirconium	91-1	153	140	153	149	5.17	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-07 Instrumnet Name : P8
Client Sample ID : MC0AL9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:52:24 DataFile Name : 067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1974	1907	1703	1861	7.56	cps
Antimony	121-1	170	207	217	198	12.42	cps
Arsenic	75-2	23	37	20	27	33.08	cps
Barium	135-1	263415	264204	263340	263653	0.18	cps
Barium	137-1	456116	460823	458663	458534	0.51	cps
Beryllium	9-1	609	595	645	616	4.19	cps
Bismuth	209-1	8015577	7997420	7763882	7925626	1.77	cps
Bismuth	209-2	3075706	3103893	3065811	3081803	0.64	cps
Bromine	81-1	32611	37029	39669	36436	9.79	cps
Cadmium	108-1	67	70	57	64	10.76	cps
Cadmium	106-1	5821	5905	5504	5743	3.68	cps
Cadmium	111-1	1511	1515	1418	1481	3.71	cps
Calcium	43-1	708277	719889	728937	719034	1.44	cps
Calcium	44-1	11762853	12093353	12164804	12007004	1.79	cps
Carbon	12-1	6478269	7391852	7719916	7196679	8.94	cps
Carbon	12-2	54748	54537	55180	54822	0.60	cps
Chlorine	35-1	2131754	2348543	2400107	2293468	6.21	cps
Chlorine	35-2	9213	9597	9393	9401	2.04	cps
Chromium	52-2	3961	3937	4004	3967	0.85	cps
Cobalt	59-2	6188	6352	6225	6255	1.37	cps
Copper	63-2	3570	3487	3614	3557	1.81	cps
Dysprosium	156-1	3774	3901	3947	3874	2.32	cps
Dysprosium	156-2	1480	1427	1567	1491	4.74	cps
Erbium	164-1	4031	3971	4074	4025	1.29	cps
Erbium	164-2	1227	1377	1320	1308	5.79	cps
Gadolinium	160-1	4297	4634	4287	4406	4.48	cps
Gadolinium	160-2	1863	1863	1670	1799	6.21	cps
Holmium	165-1	13137573	13044696	12625471	12935913	2.11	cps
Holmium	165-2	4480584	4366522	4511062	4452723	1.71	cps
Indium	115-1	10398454	10220224	9817467	10145382	2.93	cps
Indium	115-2	964308	965789	964788	964962	0.08	cps
Iron	54-2	42673	43489	44007	43390	1.55	cps
Iron	56-2	796786	803910	805191	801962	0.56	cps
Iron	57-2	20518	20398	20014	20310	1.30	cps
Krypton	83-1	127	170	133	143	16.28	cps
Lead	206-1	1653	1947	1867	1822	8.32	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-07 Instrumnet Name : P8
Client Sample ID : MC0AL9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:52:24 DataFile Name : 067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1717	1617	1500	1611	6.73	cps
Lead	208-1	7381	7784	7334	7500	3.30	cps
Lithium	6-1	6192120	6292584	6128716	6204473	1.33	cps
Magnesium	24-2	2268329	2195966	2210113	2224803	1.72	cps
Manganese	55-2	231083	234806	235539	233810	1.02	cps
Molybdenum	94-1	737	663	750	717	6.51	cps
Molybdenum	95-1	730	690	687	702	3.43	cps
Molybdenum	96-1	927	807	763	832	10.17	cps
Molybdenum	97-1	420	410	360	397	8.10	cps
Molybdenum	98-1	977	1080	1203	1087	10.44	cps
Neodymium	150-1	5705	5835	5951	5830	2.12	cps
Neodymium	150-2	1447	1403	1630	1493	8.06	cps
Nickel	60-2	6358	6251	6155	6255	1.63	cps
Phosphorus	31-2	53	50	20	41	44.65	cps
Potassium	39-2	178226	180608	179150	179328	0.67	cps
Rhodium	103-1	9441642	9299117	8890552	9210437	3.11	cps
Rhodium	103-2	3497603	3525923	3488904	3504143	0.55	cps
Scandium	45-1	7887872	7742796	7500795	7710488	2.54	cps
Scandium	45-2	130432	132053	132985	131823	0.98	cps
Selenium	82-1	360	327	480	389	20.74	cps
Selenium	77-2	13	3	7	8	65.47	cps
Selenium	78-2	17	27	40	28	42.13	cps
Silicon	28-1	47126814	47601826	47012783	47247141	0.66	cps
Silver	107-1	210	217	153	193	18.00	cps
Silver	109-1	70	63	90	74	18.64	cps
Sodium	23-2	6164940	6151638	6180462	6165680	0.23	cps
Strontium	86-1	490362	498814	494412	494530	0.85	cps
Strontium	88-1	4336182	4503342	4494348	4444624	2.12	cps
Sulfur	34-1	1215678	1214656	1198738	1209691	0.79	cps
Terbium	159-1	13511190	13237226	12939654	13229357	2.16	cps
Terbium	159-2	4262262	4341789	4284890	4296314	0.95	cps
Thallium	203-1	1470	1427	1393	1430	2.69	cps
Thallium	205-1	3360	3250	3414	3342	2.49	cps
Tin	118-1	3064	2757	2790	2870	5.86	cps
Titanium	47-1	2210	2204	2264	2226	1.48	cps
Uranium	238-1	297	233	223	251	15.84	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-07 Instrumnet Name : P8
Client Sample ID : MC0AL9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:52:24 DataFile Name : 067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	203	193	163	187	11.15	cps
Ytterbium	172-1	1350	1317	1357	1341	1.60	cps
Ytterbium	172-2	547	600	587	578	4.80	cps
Ytterbium	176-1	2617	2357	2410	2461	5.58	cps
Ytterbium	176-2	553	507	543	534	4.60	cps
Yttrium	89-1	18851241	18883559	18422616	18719138	1.37	cps
Yttrium	89-2	1260352	1262074	1261426	1261284	0.07	cps
Zinc	66-2	1420	1380	1307	1369	4.20	cps
Zirconium	90-1	1147	1030	1110	1096	5.45	cps
Zirconium	91-1	187	220	190	199	9.23	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-08 Instrumnet Name : P8
Client Sample ID : MC0AM2 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:55:41 DataFile Name : 068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	59836	60904	60127	60289	0.92	cps
Antimony	121-1	267	257	343	289	16.41	cps
Arsenic	75-2	60	113	87	87	30.77	cps
Barium	135-1	248062	252546	254082	251564	1.24	cps
Barium	137-1	433114	439139	443956	438736	1.24	cps
Beryllium	9-1	986	965	1042	998	4.01	cps
Bismuth	209-1	7944376	7837545	7891567	7891163	0.68	cps
Bismuth	209-2	3080259	3057828	3081737	3073275	0.44	cps
Bromine	81-1	29441	32394	35545	32460	9.40	cps
Cadmium	108-1	50	30	60	47	32.73	cps
Cadmium	106-1	6111	6031	5948	6030	1.36	cps
Cadmium	111-1	1407	1359	1268	1344	5.27	cps
Calcium	43-1	1027435	1037037	1039128	1034533	0.60	cps
Calcium	44-1	17142619	17449199	17424813	17338877	0.98	cps
Carbon	12-1	6383541	7234749	7573088	7063793	8.68	cps
Carbon	12-2	53323	53972	53698	53664	0.61	cps
Chlorine	35-1	2479281	2816910	2890706	2728966	8.04	cps
Chlorine	35-2	11261	10958	11338	11186	1.80	cps
Chromium	52-2	15472	15522	15515	15503	0.18	cps
Cobalt	59-2	5775	5815	5978	5856	1.84	cps
Copper	63-2	6211	5998	6301	6170	2.53	cps
Dysprosium	156-1	11815	11508	11722	11682	1.35	cps
Dysprosium	156-2	4334	4447	4351	4377	1.40	cps
Erbium	164-1	11195	11699	11622	11505	2.36	cps
Erbium	164-2	3737	3654	3844	3745	2.54	cps
Gadolinium	160-1	12760	12973	13307	13013	2.12	cps
Gadolinium	160-2	5098	5348	5411	5286	3.14	cps
Holmium	165-1	12837894	12945886	13050114	12944631	0.82	cps
Holmium	165-2	4489986	4388263	4449497	4442582	1.15	cps
Indium	115-1	10037850	10167134	10317017	10174000	1.37	cps
Indium	115-2	951059	951989	963131	955393	0.70	cps
Iron	54-2	132774	133174	132682	132877	0.20	cps
Iron	56-2	2583587	2595217	2600013	2592939	0.33	cps
Iron	57-2	61221	61629	60698	61183	0.76	cps
Krypton	83-1	137	140	163	147	9.91	cps
Lead	206-1	7215	7169	7215	7200	0.37	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-08 Instrumnet Name : P8
Client Sample ID : MC0AM2 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:55:41 DataFile Name : 068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6021	6332	6021	6125	2.92	cps
Lead	208-1	28045	28376	28129	28183	0.61	cps
Lithium	6-1	6161758	6228491	6246332	6212194	0.72	cps
Magnesium	24-2	2864501	2753344	2803875	2807240	1.98	cps
Manganese	55-2	15192	15776	15415	15461	1.91	cps
Molybdenum	94-1	5034	4994	5084	5038	0.90	cps
Molybdenum	95-1	1493	1617	1543	1551	4.00	cps
Molybdenum	96-1	2274	2454	2520	2416	5.28	cps
Molybdenum	97-1	1023	960	890	958	6.96	cps
Molybdenum	98-1	2527	2407	2424	2452	2.65	cps
Neodymium	150-1	18282	19104	18483	18623	2.30	cps
Neodymium	150-2	4467	4547	4784	4600	3.58	cps
Nickel	60-2	2767	2707	2950	2808	4.52	cps
Phosphorus	31-2	90	87	103	93	9.45	cps
Potassium	39-2	348297	346458	347704	347486	0.27	cps
Rhodium	103-1	9093470	9233407	9191540	9172806	0.78	cps
Rhodium	103-2	3502854	3466518	3514528	3494633	0.72	cps
Scandium	45-1	7839944	7747609	7802485	7796680	0.60	cps
Scandium	45-2	132864	130146	132652	131887	1.15	cps
Selenium	82-1	783	620	670	691	12.11	cps
Selenium	77-2	17	57	37	37	54.54	cps
Selenium	78-2	63	57	77	66	15.54	cps
Silicon	28-1	56025706	56914301	57071237	56670415	0.99	cps
Silver	107-1	157	153	197	169	14.28	cps
Silver	109-1	90	80	117	96	19.84	cps
Sodium	23-2	7932269	8057016	7934707	7974664	0.89	cps
Strontium	86-1	451738	456489	461826	456684	1.11	cps
Strontium	88-1	4134796	4113219	4167871	4138629	0.67	cps
Sulfur	34-1	1248350	1285773	1282660	1272261	1.63	cps
Terbium	159-1	13102811	13253981	13269303	13208698	0.70	cps
Terbium	159-2	4262353	4163008	4296734	4240698	1.64	cps
Thallium	203-1	587	633	543	588	7.66	cps
Thallium	205-1	1443	1533	1387	1455	5.09	cps
Tin	118-1	18372	19247	19030	18883	2.41	cps
Titanium	47-1	75473	76111	75849	75811	0.42	cps
Uranium	238-1	1473	1363	1493	1443	4.85	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-08 Instrumnet Name : P8
Client Sample ID : MC0AM2 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:55:41 DataFile Name : 068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3627	3567	4051	3748	7.03	cps
Ytterbium	172-1	3360	3694	3594	3549	4.82	cps
Ytterbium	172-2	1323	1543	1380	1416	8.07	cps
Ytterbium	176-1	3837	3911	3927	3892	1.23	cps
Ytterbium	176-2	970	1090	1140	1067	8.19	cps
Yttrium	89-1	19338007	19311198	19277153	19308786	0.16	cps
Yttrium	89-2	1271614	1256622	1277933	1268723	0.86	cps
Zinc	66-2	1973	2027	1984	1995	1.42	cps
Zirconium	90-1	11475	13202	11498	12058	8.21	cps
Zirconium	91-1	2470	2497	2540	2502	1.41	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-09 Instrumnet Name : P8
Client Sample ID : MC0AZ9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:59:00 DataFile Name : 069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2230	2214	2164	2202	1.58	cps
Antimony	121-1	357	307	350	338	8.04	cps
Arsenic	75-2	37	57	40	44	24.11	cps
Barium	135-1	473823	475045	475200	474689	0.16	cps
Barium	137-1	819808	825589	832481	825960	0.77	cps
Beryllium	9-1	4091	4131	3996	4073	1.70	cps
Bismuth	209-1	7677885	7778188	7662230	7706101	0.82	cps
Bismuth	209-2	2984265	2903054	3012669	2966662	1.92	cps
Bromine	81-1	83419	106753	120427	103533	18.07	cps
Cadmium	108-1	97	140	103	113	20.59	cps
Cadmium	106-1	6352	6338	6235	6308	1.01	cps
Cadmium	111-1	2236	2226	2315	2259	2.14	cps
Calcium	43-1	982780	992185	999254	991406	0.83	cps
Calcium	44-1	16676001	16476048	16692376	16614808	0.72	cps
Carbon	12-1	7426739	8289832	8666792	8127788	7.82	cps
Carbon	12-2	59677	61377	60735	60596	1.42	cps
Chlorine	35-1	5525850	6047421	6449976	6007749	7.71	cps
Chlorine	35-2	25215	24995	25726	25312	1.48	cps
Chromium	52-2	4087	3911	3844	3947	3.19	cps
Cobalt	59-2	13770	13890	14007	13889	0.85	cps
Copper	63-2	7362	7282	7272	7305	0.68	cps
Dysprosium	156-1	14738	15252	14985	14992	1.71	cps
Dysprosium	156-2	5031	5188	5438	5219	3.93	cps
Erbium	164-1	15225	14765	15039	15010	1.54	cps
Erbium	164-2	4884	4981	5194	5020	3.16	cps
Gadolinium	160-1	14878	15219	15529	15209	2.14	cps
Gadolinium	160-2	6462	6065	6145	6224	3.37	cps
Holmium	165-1	12967705	12991489	12849060	12936085	0.59	cps
Holmium	165-2	4384236	4324961	4427996	4379064	1.18	cps
Indium	115-1	9926226	10163627	9940484	10010112	1.33	cps
Indium	115-2	938532	918242	956942	937905	2.06	cps
Iron	54-2	5261	4921	5124	5102	3.35	cps
Iron	56-2	89250	89968	89438	89552	0.42	cps
Iron	57-2	2414	2294	2110	2272	6.72	cps
Krypton	83-1	153	123	127	134	12.23	cps
Lead	206-1	3140	3307	2977	3142	5.25	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-09 Instrumnet Name : P8
Client Sample ID : MC0AZ9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:59:00 DataFile Name : 069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2647	2720	2517	2628	3.92	cps
Lead	208-1	12112	12693	11999	12268	3.03	cps
Lithium	6-1	6078291	6211599	5918784	6069558	2.42	cps
Magnesium	24-2	2345153	2343904	2327629	2338895	0.42	cps
Manganese	55-2	197911	199280	197233	198141	0.53	cps
Molybdenum	94-1	830	803	770	801	3.75	cps
Molybdenum	95-1	700	610	587	632	9.47	cps
Molybdenum	96-1	740	710	810	753	6.81	cps
Molybdenum	97-1	367	413	397	392	6.03	cps
Molybdenum	98-1	973	1027	927	976	5.13	cps
Neodymium	150-1	14862	15442	15796	15367	3.07	cps
Neodymium	150-2	3741	3677	3757	3725	1.13	cps
Nickel	60-2	4351	4371	4271	4331	1.22	cps
Phosphorus	31-2	50	50	30	43	26.65	cps
Potassium	39-2	337887	338296	338583	338255	0.10	cps
Rhodium	103-1	9046825	9123102	9087926	9085951	0.42	cps
Rhodium	103-2	3347079	3321052	3383275	3350469	0.93	cps
Scandium	45-1	7724677	7733491	7498718	7652295	1.74	cps
Scandium	45-2	127220	124584	129836	127213	2.06	cps
Selenium	82-1	407	427	553	462	17.21	cps
Selenium	77-2	23	20	17	20	16.65	cps
Selenium	78-2	17	43	53	38	50.16	cps
Silicon	28-1	52027468	52863049	52672048	52520855	0.83	cps
Silver	107-1	167	170	153	163	5.40	cps
Silver	109-1	80	103	97	93	12.88	cps
Sodium	23-2	18444209	18458258	18300947	18401138	0.47	cps
Strontium	86-1	770773	773108	782032	775304	0.77	cps
Strontium	88-1	6838911	6931227	7110536	6960224	1.98	cps
Sulfur	34-1	1008824	1021109	1020713	1016882	0.69	cps
Terbium	159-1	13076935	13222032	12934160	13077709	1.10	cps
Terbium	159-2	4145927	4062203	4325931	4178021	3.23	cps
Thallium	203-1	720	727	690	712	2.74	cps
Thallium	205-1	1703	1473	1680	1619	7.82	cps
Tin	118-1	109154	111277	111698	110710	1.23	cps
Titanium	47-1	2610	2564	2620	2598	1.16	cps
Uranium	238-1	410	387	413	403	3.60	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-09 Instrumnet Name : P8
Client Sample ID : MC0AZ9 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 13:59:00 DataFile Name : 069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	530	500	507	512	3.08	cps
Ytterbium	172-1	5134	5264	5221	5207	1.27	cps
Ytterbium	172-2	1997	1990	2094	2027	2.85	cps
Ytterbium	176-1	4801	5081	5028	4970	2.99	cps
Ytterbium	176-2	1643	1517	1363	1508	9.30	cps
Yttrium	89-1	19260097	19170938	19109360	19180132	0.40	cps
Yttrium	89-2	1258157	1230761	1288100	1259006	2.28	cps
Zinc	66-2	7759	7856	7645	7753	1.36	cps
Zirconium	90-1	1220	1180	1173	1191	2.12	cps
Zirconium	91-1	243	317	247	269	15.40	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-10 Instrumnet Name : P8
Client Sample ID : MC0B02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:02:18 DataFile Name : 070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2577	2667	2674	2639	2.05	cps
Antimony	121-1	230	163	223	206	17.86	cps
Arsenic	75-2	160	190	177	176	8.56	cps
Barium	135-1	406880	411849	408789	409173	0.61	cps
Barium	137-1	703221	706623	711804	707216	0.61	cps
Beryllium	9-1	2135	2227	2211	2191	2.25	cps
Bismuth	209-1	7691997	7552858	7501534	7582130	1.30	cps
Bismuth	209-2	2956058	2986591	2927673	2956774	1.00	cps
Bromine	81-1	118122	143998	158345	140155	14.54	cps
Cadmium	108-1	220	203	210	211	3.97	cps
Cadmium	106-1	6128	6645	6392	6388	4.05	cps
Cadmium	111-1	3208	3140	2951	3100	4.29	cps
Calcium	43-1	1771607	1794373	1834185	1800055	1.76	cps
Calcium	44-1	28264400	28969716	29099401	28777839	1.56	cps
Carbon	12-1	7788692	8689919	8921637	8466749	7.07	cps
Carbon	12-2	62070	63369	64497	63312	1.92	cps
Chlorine	35-1	13657069	14742033	15465611	14621571	6.23	cps
Chlorine	35-2	59244	59840	60737	59940	1.25	cps
Chromium	52-2	2064	1937	2077	2026	3.81	cps
Cobalt	59-2	145161	145198	145484	145281	0.12	cps
Copper	63-2	3504	3627	3410	3514	3.09	cps
Dysprosium	156-1	37937	38776	38128	38280	1.15	cps
Dysprosium	156-2	13467	13791	13547	13601	1.24	cps
Erbium	164-1	37473	38195	37783	37817	0.96	cps
Erbium	164-2	12302	12803	12236	12447	2.49	cps
Gadolinium	160-1	39886	40461	40468	40272	0.83	cps
Gadolinium	160-2	16383	16110	15603	16032	2.47	cps
Holmium	165-1	13136930	12751334	12774971	12887745	1.68	cps
Holmium	165-2	4450125	4421623	4403170	4424972	0.53	cps
Indium	115-1	10201719	9867482	9750065	9939756	2.36	cps
Indium	115-2	929594	933477	932526	931865	0.22	cps
Iron	54-2	112545	111709	110775	111676	0.79	cps
Iron	56-2	2197804	2167150	2186810	2183921	0.71	cps
Iron	57-2	52162	51827	50770	51586	1.41	cps
Krypton	83-1	153	143	200	166	18.27	cps
Lead	206-1	2334	2440	2264	2346	3.79	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-10 Instrumnet Name : P8
Client Sample ID : MC0B02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:02:18 DataFile Name : 070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1913	1930	1970	1938	1.50	cps
Lead	208-1	9215	9281	9055	9184	1.27	cps
Lithium	6-1	6179746	6129102	5968249	6092365	1.81	cps
Magnesium	24-2	6225664	6148599	6103394	6159219	1.00	cps
Manganese	55-2	1430945	1436994	1421819	1429919	0.53	cps
Molybdenum	94-1	873	797	743	804	8.12	cps
Molybdenum	95-1	687	733	713	711	3.29	cps
Molybdenum	96-1	847	833	780	820	4.30	cps
Molybdenum	97-1	410	370	333	371	10.33	cps
Molybdenum	98-1	857	900	1037	931	10.09	cps
Neodymium	150-1	59953	60258	60385	60199	0.37	cps
Neodymium	150-2	14107	14388	14605	14367	1.74	cps
Nickel	60-2	6025	6175	6278	6159	2.07	cps
Phosphorus	31-2	33	63	47	48	31.46	cps
Potassium	39-2	469000	469260	473026	470428	0.48	cps
Rhodium	103-1	9114343	8904595	8699383	8906107	2.33	cps
Rhodium	103-2	3348987	3331799	3277208	3319331	1.13	cps
Scandium	45-1	7804759	7639767	7614378	7686301	1.34	cps
Scandium	45-2	128804	128125	129864	128931	0.68	cps
Selenium	82-1	320	407	323	350	14.03	cps
Selenium	77-2	53	23	33	37	41.66	cps
Selenium	78-2	47	63	50	53	16.53	cps
Silicon	28-1	72136234	74081122	73387381	73201579	1.35	cps
Silver	107-1	310	290	340	313	8.03	cps
Silver	109-1	210	207	230	216	5.86	cps
Sodium	23-2	30640630	30671236	30143479	30485115	0.97	cps
Strontium	86-1	1465215	1464287	1491573	1473691	1.05	cps
Strontium	88-1	12510605	12662846	12627669	12600373	0.63	cps
Sulfur	34-1	957281	939379	963881	953514	1.33	cps
Terbium	159-1	13281161	13075358	13009882	13122134	1.08	cps
Terbium	159-2	4216020	4203301	4228539	4215953	0.30	cps
Thallium	203-1	1470	1393	1650	1505	8.76	cps
Thallium	205-1	3454	3704	3771	3643	4.58	cps
Tin	118-1	24950	25337	25220	25169	0.79	cps
Titanium	47-1	4084	3927	4014	4008	1.96	cps
Uranium	238-1	460	417	433	437	5.01	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-10 Instrumnet Name : P8
Client Sample ID : MC0B02 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:02:18 DataFile Name : 070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	287	427	330	348	20.61	cps
Ytterbium	172-1	10201	10114	10317	10211	1.00	cps
Ytterbium	172-2	4271	4381	4124	4259	3.02	cps
Ytterbium	176-1	7849	8069	8393	8104	3.37	cps
Ytterbium	176-2	2760	2904	2760	2808	2.95	cps
Yttrium	89-1	20307213	19655533	19768524	19910423	1.75	cps
Yttrium	89-2	1302066	1316301	1317036	1311801	0.64	cps
Zinc	66-2	7462	7659	7309	7476	2.35	cps
Zirconium	90-1	1143	1180	1120	1148	2.63	cps
Zirconium	91-1	270	263	280	271	3.09	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-11 Instrumnet Name : P8
Client Sample ID : MC0B04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:05:33 DataFile Name : 071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3681	3437	3444	3520	3.94	cps
Antimony	121-1	140	150	173	154	11.08	cps
Arsenic	75-2	187	183	137	169	16.55	cps
Barium	135-1	239368	242446	242236	241350	0.71	cps
Barium	137-1	415801	423913	420883	420199	0.98	cps
Beryllium	9-1	1167	1170	1250	1196	3.92	cps
Bismuth	209-1	7817727	7733861	7797342	7782977	0.56	cps
Bismuth	209-2	3000251	2954560	3002340	2985717	0.90	cps
Bromine	81-1	82307	95391	100258	92652	10.02	cps
Cadmium	108-1	77	53	60	63	18.98	cps
Cadmium	106-1	6025	6195	6121	6114	1.40	cps
Cadmium	111-1	1548	1605	1649	1601	3.16	cps
Calcium	43-1	1571093	1601732	1602582	1591803	1.13	cps
Calcium	44-1	24878327	25450388	25439006	25255907	1.29	cps
Carbon	12-1	5633652	6375356	6779663	6262890	9.28	cps
Carbon	12-2	48152	48152	48654	48319	0.60	cps
Chlorine	35-1	7018201	7704608	7986753	7569854	6.58	cps
Chlorine	35-2	30723	31157	30840	30906	0.73	cps
Chromium	52-2	4274	4194	4187	4218	1.14	cps
Cobalt	59-2	6572	6041	6281	6298	4.22	cps
Copper	63-2	3070	3067	2950	3029	2.26	cps
Dysprosium	156-1	37877	39207	39291	38792	2.05	cps
Dysprosium	156-2	14435	14875	14631	14647	1.51	cps
Erbium	164-1	37710	38492	37957	38053	1.05	cps
Erbium	164-2	12539	12763	12196	12499	2.29	cps
Gadolinium	160-1	45005	45848	44063	44972	1.99	cps
Gadolinium	160-2	17805	17992	17411	17736	1.67	cps
Holmium	165-1	12897712	12772584	13028258	12899518	0.99	cps
Holmium	165-2	4414290	4371177	4377550	4387672	0.53	cps
Indium	115-1	9861666	10008103	10031623	9967131	0.92	cps
Indium	115-2	936236	933285	944914	938145	0.64	cps
Iron	54-2	9854	10037	9934	9941	0.93	cps
Iron	56-2	179964	179804	180115	179961	0.09	cps
Iron	57-2	4607	4497	4601	4569	1.35	cps
Krypton	83-1	177	220	163	187	15.87	cps
Lead	206-1	1607	1560	1593	1587	1.51	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-11 Instrumnet Name : P8
Client Sample ID : MC0B04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:05:33 DataFile Name : 071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1357	1407	1493	1419	4.87	cps
Lead	208-1	6514	6391	6524	6476	1.15	cps
Lithium	6-1	6116863	6004140	6152806	6091270	1.27	cps
Magnesium	24-2	3071776	3025972	3057859	3051869	0.77	cps
Manganese	55-2	83543	84474	83321	83779	0.73	cps
Molybdenum	94-1	687	643	623	651	4.97	cps
Molybdenum	95-1	473	497	487	486	2.41	cps
Molybdenum	96-1	620	710	650	660	6.94	cps
Molybdenum	97-1	267	230	240	246	7.72	cps
Molybdenum	98-1	753	707	783	748	5.17	cps
Neodymium	150-1	75373	77736	78518	77209	2.12	cps
Neodymium	150-2	18716	19257	19084	19019	1.45	cps
Nickel	60-2	3120	3077	3157	3118	1.28	cps
Phosphorus	31-2	93	83	40	72	39.25	cps
Potassium	39-2	324297	324431	325056	324595	0.12	cps
Rhodium	103-1	8907584	8965925	8932453	8935321	0.33	cps
Rhodium	103-2	3357283	3328841	3393916	3360013	0.97	cps
Scandium	45-1	7693730	7652047	7762276	7702684	0.72	cps
Scandium	45-2	129312	129399	128895	129202	0.21	cps
Selenium	82-1	497	437	637	523	19.61	cps
Selenium	77-2	53	80	73	69	20.15	cps
Selenium	78-2	87	77	67	77	13.04	cps
Silicon	28-1	63116514	64219819	64524077	63953470	1.16	cps
Silver	107-1	147	170	137	151	11.32	cps
Silver	109-1	57	80	100	79	27.49	cps
Sodium	23-2	12026590	11855844	11955521	11945985	0.72	cps
Strontium	86-1	472603	485231	482305	480046	1.38	cps
Strontium	88-1	4297133	4341306	4287154	4308531	0.67	cps
Sulfur	34-1	1029014	1033979	1049018	1037337	1.00	cps
Terbium	159-1	13154016	13102702	13213038	13156586	0.42	cps
Terbium	159-2	4162972	4245035	4172078	4193362	1.07	cps
Thallium	203-1	733	677	633	681	7.36	cps
Thallium	205-1	1467	1637	1620	1575	5.95	cps
Tin	118-1	1873	1787	1697	1786	4.95	cps
Titanium	47-1	3580	3237	3407	3408	5.04	cps
Uranium	238-1	180	230	220	210	12.60	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-11 Instrumnet Name : P8
Client Sample ID : MC0B04 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:05:33 DataFile Name : 071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	227	240	233	233	2.86	cps
Ytterbium	172-1	9767	10531	10327	10208	3.88	cps
Ytterbium	172-2	3927	3867	3997	3931	1.66	cps
Ytterbium	176-1	7706	7852	7919	7826	1.40	cps
Ytterbium	176-2	2724	2877	2690	2764	3.60	cps
Yttrium	89-1	19568248	19950099	19883587	19800645	1.03	cps
Yttrium	89-2	1290848	1282246	1298300	1290465	0.62	cps
Zinc	66-2	997	1197	1073	1089	9.27	cps
Zirconium	90-1	1120	1057	1137	1105	3.82	cps
Zirconium	91-1	227	273	257	252	9.38	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-12 Instrumnet Name : P8
Client Sample ID : MC0B09 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:08:48 DataFile Name : 072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1853	1837	1903	1865	1.86	cps
Antimony	121-1	297	303	327	309	5.10	cps
Arsenic	75-2	53	60	47	53	12.50	cps
Barium	135-1	473558	483696	482966	480073	1.18	cps
Barium	137-1	822289	838440	840186	833638	1.18	cps
Beryllium	9-1	3835	3905	3953	3898	1.52	cps
Bismuth	209-1	7377328	7671787	7765308	7604808	2.66	cps
Bismuth	209-2	3027433	3018976	2970309	3005573	1.03	cps
Bromine	81-1	87670	106164	114916	102917	13.52	cps
Cadmium	108-1	93	90	117	100	14.53	cps
Cadmium	106-1	5815	6085	5981	5960	2.29	cps
Cadmium	111-1	2184	2287	2241	2238	2.31	cps
Calcium	43-1	980359	995822	996549	990910	0.92	cps
Calcium	44-1	16508332	16723729	16620797	16617619	0.65	cps
Carbon	12-1	6629846	7379636	7854048	7287843	8.47	cps
Carbon	12-2	54665	55902	56050	55539	1.37	cps
Chlorine	35-1	6760502	7308747	7455296	7174848	5.10	cps
Chlorine	35-2	29183	29139	29580	29301	0.83	cps
Chromium	52-2	1967	2044	2004	2005	1.91	cps
Cobalt	59-2	13386	13593	13790	13590	1.49	cps
Copper	63-2	7078	6872	6688	6880	2.84	cps
Dysprosium	156-1	14341	15005	15252	14866	3.17	cps
Dysprosium	156-2	5101	5124	5081	5102	0.43	cps
Erbium	164-1	14905	15139	15452	15165	1.81	cps
Erbium	164-2	4854	4918	4968	4913	1.16	cps
Gadolinium	160-1	15456	15813	15296	15521	1.71	cps
Gadolinium	160-2	6132	5878	6145	6051	2.48	cps
Holmium	165-1	12085123	12675886	12953159	12571389	3.53	cps
Holmium	165-2	4421604	4318681	4370179	4370155	1.18	cps
Indium	115-1	9631363	10016842	9949100	9865768	2.09	cps
Indium	115-2	942102	944073	926369	937515	1.03	cps
Iron	54-2	2107	2394	2340	2280	6.69	cps
Iron	56-2	41497	41778	41524	41599	0.37	cps
Iron	57-2	1057	1010	1090	1052	3.82	cps
Krypton	83-1	130	140	150	140	7.14	cps
Lead	206-1	3000	3147	2717	2955	7.40	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-12 Instrumnet Name : P8
Client Sample ID : MC0B09 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:08:48 DataFile Name : 072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2540	2504	2510	2518	0.78	cps
Lead	208-1	11559	11569	11589	11572	0.13	cps
Lithium	6-1	5860472	6103498	6125534	6029834	2.44	cps
Magnesium	24-2	2363670	2361160	2314706	2346512	1.18	cps
Manganese	55-2	189776	189459	188675	189304	0.30	cps
Molybdenum	94-1	630	690	610	643	6.47	cps
Molybdenum	95-1	583	637	640	620	5.13	cps
Molybdenum	96-1	587	760	707	684	12.97	cps
Molybdenum	97-1	423	300	307	343	20.20	cps
Molybdenum	98-1	910	857	930	899	4.22	cps
Neodymium	150-1	15119	14945	15209	15091	0.89	cps
Neodymium	150-2	3614	3714	3674	3667	1.37	cps
Nickel	60-2	2347	2477	2300	2375	3.86	cps
Phosphorus	31-2	40	73	30	48	47.49	cps
Potassium	39-2	335875	334691	339099	336555	0.68	cps
Rhodium	103-1	8628546	8988918	9016968	8878144	2.44	cps
Rhodium	103-2	3369763	3400340	3387003	3385702	0.45	cps
Scandium	45-1	7383703	7604736	7729421	7572620	2.31	cps
Scandium	45-2	128552	128366	127711	128210	0.34	cps
Selenium	82-1	443	453	467	454	2.58	cps
Selenium	77-2	17	33	13	21	50.75	cps
Selenium	78-2	40	40	50	43	13.32	cps
Silicon	28-1	51521664	51898833	51935734	51785410	0.44	cps
Silver	107-1	160	153	163	159	3.20	cps
Silver	109-1	63	43	67	58	21.85	cps
Sodium	23-2	18856421	18484488	18450099	18597003	1.21	cps
Strontium	86-1	764844	778082	784538	775821	1.29	cps
Strontium	88-1	6961966	7053130	6999947	7005014	0.65	cps
Sulfur	34-1	1002850	1004255	1009012	1005372	0.32	cps
Terbium	159-1	12447485	13181143	13132457	12920362	3.18	cps
Terbium	159-2	4215765	4286587	4252390	4251581	0.83	cps
Thallium	203-1	737	733	667	712	5.54	cps
Thallium	205-1	1640	1650	1807	1699	5.50	cps
Tin	118-1	3034	2884	2974	2964	2.55	cps
Titanium	47-1	1940	1913	2124	1992	5.74	cps
Uranium	238-1	447	373	380	400	10.14	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-12 Instrumnet Name : P8
Client Sample ID : MC0B09 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:08:48 DataFile Name : 072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	500	493	557	517	6.74	cps
Ytterbium	172-1	5004	5148	5528	5227	5.18	cps
Ytterbium	172-2	2104	2120	2064	2096	1.39	cps
Ytterbium	176-1	4664	4744	4881	4763	2.30	cps
Ytterbium	176-2	1487	1460	1530	1492	2.37	cps
Yttrium	89-1	18408010	19231101	18993722	18877611	2.24	cps
Yttrium	89-2	1271073	1274118	1253139	1266110	0.90	cps
Zinc	66-2	6175	6065	6108	6116	0.91	cps
Zirconium	90-1	947	980	910	946	3.70	cps
Zirconium	91-1	243	233	213	230	6.64	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-13 Instrumnet Name : P8
Client Sample ID : MC0B10 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:12:08 DataFile Name : 073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	173	210	243	209	16.76	cps
Antimony	121-1	133	133	130	132	1.46	cps
Arsenic	75-2	0	0	7	2	173.21	cps
Barium	135-1	680	683	633	666	4.20	cps
Barium	137-1	1203	1193	1210	1202	0.70	cps
Beryllium	9-1	247	220	229	232	6.05	cps
Bismuth	209-1	8015167	8140506	8078452	8078042	0.78	cps
Bismuth	209-2	3166792	3190446	3147810	3168349	0.67	cps
Bromine	81-1	32093	28606	25734	28811	11.05	cps
Cadmium	108-1	57	27	43	42	35.60	cps
Cadmium	106-1	5788	5758	5595	5713	1.82	cps
Cadmium	111-1	1155	1173	1125	1151	2.09	cps
Calcium	43-1	1310	1273	1363	1316	3.44	cps
Calcium	44-1	22504	22164	22291	22320	0.77	cps
Carbon	12-1	4817390	5469529	5834463	5373794	9.59	cps
Carbon	12-2	41649	42077	42351	42025	0.84	cps
Chlorine	35-1	1317506	1293509	1270625	1293880	1.81	cps
Chlorine	35-2	4764	4664	4514	4647	2.71	cps
Chromium	52-2	1893	2084	1843	1940	6.53	cps
Cobalt	59-2	157	133	210	167	23.58	cps
Copper	63-2	2764	2834	2914	2837	2.65	cps
Dysprosium	156-1	100	107	107	104	3.69	cps
Dysprosium	156-2	7	10	13	10	33.30	cps
Erbium	164-1	60	63	60	61	3.15	cps
Erbium	164-2	23	17	17	19	20.36	cps
Gadolinium	160-1	40	73	27	47	51.50	cps
Gadolinium	160-2	17	7	10	11	45.82	cps
Holmium	165-1	12815561	13166904	12835469	12939311	1.53	cps
Holmium	165-2	4433574	4490116	4450826	4458172	0.65	cps
Indium	115-1	10135616	10268289	10053823	10152576	1.07	cps
Indium	115-2	965034	973062	964190	967429	0.51	cps
Iron	54-2	863	877	813	851	3.92	cps
Iron	56-2	14301	14097	14097	14165	0.83	cps
Iron	57-2	380	417	310	369	14.69	cps
Krypton	83-1	110	117	153	127	18.42	cps
Lead	206-1	2684	2747	2647	2693	1.88	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-13 Instrumnet Name : P8
Client Sample ID : MC0B10 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:12:08 DataFile Name : 073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2357	2230	2170	2252	4.23	cps
Lead	208-1	10542	10172	10052	10255	2.49	cps
Lithium	6-1	6107463	6233895	6222627	6187995	1.13	cps
Magnesium	24-2	847	973	803	874	10.10	cps
Manganese	55-2	1403	1490	1530	1475	4.39	cps
Molybdenum	94-1	1390	1413	1550	1451	5.96	cps
Molybdenum	95-1	393	433	503	443	12.56	cps
Molybdenum	96-1	770	650	733	718	8.57	cps
Molybdenum	97-1	260	257	253	257	1.30	cps
Molybdenum	98-1	743	697	710	717	3.35	cps
Neodymium	150-1	17	27	23	22	22.91	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	1323	1263	1177	1255	5.88	cps
Phosphorus	31-2	73	43	43	53	32.48	cps
Potassium	39-2	6518	6735	6538	6597	1.82	cps
Rhodium	103-1	9262482	9583699	9301758	9382646	1.87	cps
Rhodium	103-2	3576033	3595024	3555450	3575502	0.55	cps
Scandium	45-1	7707330	7819509	7741897	7756246	0.74	cps
Scandium	45-2	130943	130217	128898	130019	0.80	cps
Selenium	82-1	30	-7	-60	-12	-370.24	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	3	2	86.60	cps
Silicon	28-1	418631	422232	433125	424662	1.78	cps
Silver	107-1	140	140	113	131	11.74	cps
Silver	109-1	57	70	37	54	30.81	cps
Sodium	23-2	33883	33549	33388	33606	0.75	cps
Strontium	86-1	527	527	477	510	5.66	cps
Strontium	88-1	3050	2697	2514	2754	9.91	cps
Sulfur	34-1	319803	319462	319016	319427	0.12	cps
Terbium	159-1	13089918	13161361	13158006	13136428	0.31	cps
Terbium	159-2	4314161	4267974	4277062	4286399	0.57	cps
Thallium	203-1	313	300	237	283	14.46	cps
Thallium	205-1	717	577	643	646	10.85	cps
Tin	118-1	14475	14806	16024	15102	5.40	cps
Titanium	47-1	230	227	213	223	3.95	cps
Uranium	238-1	40	47	17	34	45.73	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-13 Instrumnet Name : P8
Client Sample ID : MC0B10 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:12:08 DataFile Name : 073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	47	17	27	64.94	cps
Ytterbium	172-1	73	97	77	82	15.35	cps
Ytterbium	172-2	17	27	33	26	32.81	cps
Ytterbium	176-1	1710	1620	1623	1651	3.09	cps
Ytterbium	176-2	203	220	323	249	26.12	cps
Yttrium	89-1	18813380	19010711	18719188	18847760	0.79	cps
Yttrium	89-2	1232366	1256358	1228873	1239199	1.21	cps
Zinc	66-2	653	630	593	626	4.84	cps
Zirconium	90-1	3037	3210	3387	3212	5.45	cps
Zirconium	91-1	660	753	757	723	7.59	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-14 Instrumnet Name : P8
Client Sample ID : MC0B11 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:15:29 DataFile Name : 074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	153	240	160	184	26.15	cps
Antimony	121-1	137	117	127	127	7.89	cps
Arsenic	75-2	0	3	0	1	173.21	cps
Barium	135-1	333	343	320	332	3.52	cps
Barium	137-1	677	653	597	642	6.41	cps
Beryllium	9-1	244	259	237	247	4.43	cps
Bismuth	209-1	8111209	8088205	8043311	8080908	0.43	cps
Bismuth	209-2	3140556	3139748	3172035	3150780	0.58	cps
Bromine	81-1	15328	15168	13810	14769	5.65	cps
Cadmium	108-1	20	20	40	27	43.30	cps
Cadmium	106-1	5745	5901	5971	5872	1.98	cps
Cadmium	111-1	1162	1193	1190	1181	1.46	cps
Calcium	43-1	993	1077	1003	1024	4.44	cps
Calcium	44-1	17594	17811	17721	17709	0.62	cps
Carbon	12-1	4985857	5707632	6233179	5642223	11.10	cps
Carbon	12-2	43447	44771	45544	44587	2.38	cps
Chlorine	35-1	827619	846778	859430	844609	1.90	cps
Chlorine	35-2	3224	3394	3377	3332	2.81	cps
Chromium	52-2	1967	2000	2100	2022	3.43	cps
Cobalt	59-2	170	117	147	144	18.51	cps
Copper	63-2	3040	2707	3074	2940	6.90	cps
Dysprosium	156-1	63	57	63	61	6.29	cps
Dysprosium	156-2	17	7	0	8	107.84	cps
Erbium	164-1	43	63	53	53	18.75	cps
Erbium	164-2	40	20	7	22	75.49	cps
Gadolinium	160-1	37	23	23	28	27.73	cps
Gadolinium	160-2	20	13	0	11	91.66	cps
Holmium	165-1	13031912	13048516	12986604	13022344	0.25	cps
Holmium	165-2	4408914	4494290	4412461	4438555	1.09	cps
Indium	115-1	10190496	10220501	10336852	10249283	0.75	cps
Indium	115-2	968627	974678	983195	975500	0.75	cps
Iron	54-2	700	690	783	724	7.07	cps
Iron	56-2	11104	11208	10908	11073	1.38	cps
Iron	57-2	267	297	303	289	6.76	cps
Krypton	83-1	137	197	123	152	25.66	cps
Lead	206-1	1623	1630	1647	1633	0.74	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-14 Instrumnet Name : P8
Client Sample ID : MC0B11 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:15:29 DataFile Name : 074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1387	1523	1397	1436	5.31	cps
Lead	208-1	6664	6431	6521	6538	1.80	cps
Lithium	6-1	6209179	6200331	6164701	6191403	0.38	cps
Magnesium	24-2	647	567	600	604	6.65	cps
Manganese	55-2	3560	3731	3544	3612	2.86	cps
Molybdenum	94-1	847	897	810	851	5.11	cps
Molybdenum	95-1	1117	1087	1147	1117	2.69	cps
Molybdenum	96-1	1297	1240	1353	1297	4.37	cps
Molybdenum	97-1	643	663	673	660	2.31	cps
Molybdenum	98-1	1683	1700	1840	1741	4.94	cps
Neodymium	150-1	17	20	30	22	31.22	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1200	1227	1330	1252	5.48	cps
Phosphorus	31-2	23	33	33	30	19.25	cps
Potassium	39-2	8759	8042	8172	8325	4.59	cps
Rhodium	103-1	9341660	9477391	9543188	9454080	1.09	cps
Rhodium	103-2	3507072	3528933	3620823	3552276	1.70	cps
Scandium	45-1	7687653	7719329	7722221	7709734	0.25	cps
Scandium	45-2	130378	130620	131242	130747	0.34	cps
Selenium	82-1	-3	-97	-17	-39	-129.81	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	7	13	9	43.25	cps
Silicon	28-1	413265	424840	428742	422282	1.91	cps
Silver	107-1	120	120	127	122	3.15	cps
Silver	109-1	33	20	50	34	43.64	cps
Sodium	23-2	105471	104518	103053	104347	1.17	cps
Strontium	86-1	327	267	337	310	12.21	cps
Strontium	88-1	1343	1490	1370	1401	5.58	cps
Sulfur	34-1	340038	338920	338596	339185	0.22	cps
Terbium	159-1	13150191	13562541	13283899	13332210	1.58	cps
Terbium	159-2	4299434	4357520	4395039	4350664	1.11	cps
Thallium	203-1	267	270	263	267	1.25	cps
Thallium	205-1	553	543	547	548	0.93	cps
Tin	118-1	2607	2570	2767	2648	3.95	cps
Titanium	47-1	190	217	220	209	7.87	cps
Uranium	238-1	30	10	27	22	48.22	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1089-14 Instrumnet Name : P8
Client Sample ID : MC0B11 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:15:29 DataFile Name : 074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	20	13	17	20.01	cps
Ytterbium	172-1	100	80	57	79	27.49	cps
Ytterbium	172-2	13	10	23	16	44.60	cps
Ytterbium	176-1	1723	1617	1587	1642	4.37	cps
Ytterbium	176-2	203	273	253	243	14.82	cps
Yttrium	89-1	18809778	18968821	19126400	18968333	0.83	cps
Yttrium	89-2	1240260	1251446	1258916	1250207	0.75	cps
Zinc	66-2	367	380	377	374	1.85	cps
Zirconium	90-1	663	690	587	647	8.30	cps
Zirconium	91-1	137	137	160	144	9.32	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BL Instrumnet Name : P8
Client Sample ID : PBS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:18:53 DataFile Name : 075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	97	67	60	74	26.24	cps
Antimony	121-1	97	93	70	87	16.77	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	327	227	283	279	17.98	cps
Barium	137-1	357	467	410	411	13.38	cps
Beryllium	9-1	232	242	224	233	4.03	cps
Bismuth	209-1	8195133	8323834	8051637	8190202	1.66	cps
Bismuth	209-2	3229395	3156187	3117257	3167613	1.80	cps
Bromine	81-1	10381	10504	10224	10369	1.35	cps
Cadmium	108-1	20	23	40	28	38.58	cps
Cadmium	106-1	6225	5995	5771	5997	3.78	cps
Cadmium	111-1	1251	1203	1163	1205	3.66	cps
Calcium	43-1	417	367	357	380	8.46	cps
Calcium	44-1	6462	6025	6171	6219	3.57	cps
Carbon	12-1	3487788	3370381	3243103	3367091	3.63	cps
Carbon	12-2	19957	19997	19687	19880	0.85	cps
Chlorine	35-1	313546	296351	287691	299196	4.40	cps
Chlorine	35-2	1037	1087	917	1013	8.62	cps
Chromium	52-2	493	520	557	523	6.08	cps
Cobalt	59-2	103	97	103	101	3.80	cps
Copper	63-2	2867	2734	2574	2725	5.39	cps
Dysprosium	156-1	50	57	33	47	25.76	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	43	93	67	68	36.91	cps
Erbium	164-2	10	17	10	12	31.50	cps
Gadolinium	160-1	37	53	30	40	30.04	cps
Gadolinium	160-2	7	17	7	10	57.72	cps
Holmium	165-1	13260406	13239064	13011729	13170399	1.05	cps
Holmium	165-2	4557925	4397407	4489598	4481643	1.80	cps
Indium	115-1	10517888	10576440	10307539	10467289	1.35	cps
Indium	115-2	980936	986344	976011	981097	0.53	cps
Iron	54-2	270	297	270	279	5.52	cps
Iron	56-2	4197	4447	4494	4380	3.64	cps
Iron	57-2	140	107	107	118	16.34	cps
Krypton	83-1	140	117	160	139	15.61	cps
Lead	206-1	937	993	923	951	3.91	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BL Instrumnet Name : P8
Client Sample ID : PBS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:18:53 DataFile Name : 075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	807	790	900	832	7.12	cps
Lead	208-1	3757	3730	3804	3764	0.99	cps
Lithium	6-1	6300471	6254241	6007698	6187470	2.54	cps
Magnesium	24-2	367	477	373	406	15.21	cps
Manganese	55-2	313	210	280	268	19.70	cps
Molybdenum	94-1	223	257	250	243	7.25	cps
Molybdenum	95-1	150	203	100	151	34.20	cps
Molybdenum	96-1	250	207	203	220	11.83	cps
Molybdenum	97-1	73	83	83	80	7.22	cps
Molybdenum	98-1	237	213	203	218	7.85	cps
Neodymium	150-1	20	20	10	17	34.64	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	900	850	1020	923	9.46	cps
Phosphorus	31-2	27	23	30	27	12.51	cps
Potassium	39-2	5915	5891	5788	5865	1.15	cps
Rhodium	103-1	9630865	9717239	9479633	9609246	1.25	cps
Rhodium	103-2	3591698	3558845	3574860	3575135	0.46	cps
Scandium	45-1	7953428	7929808	7738319	7873852	1.50	cps
Scandium	45-2	132635	132460	131468	132188	0.48	cps
Selenium	82-1	-3	17	-53	-13	-270.48	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	0	0	2	173.21	cps
Silicon	28-1	353424	352411	349875	351903	0.52	cps
Silver	107-1	113	127	170	137	21.68	cps
Silver	109-1	43	30	27	33	26.45	cps
Sodium	23-2	19243	18592	18826	18887	1.75	cps
Strontium	86-1	293	303	217	271	17.49	cps
Strontium	88-1	627	687	657	657	4.57	cps
Sulfur	34-1	325682	321056	324223	323654	0.73	cps
Terbium	159-1	13433583	13533112	13138967	13368554	1.53	cps
Terbium	159-2	4314179	4273923	4227079	4271727	1.02	cps
Thallium	203-1	247	193	210	217	12.59	cps
Thallium	205-1	507	637	570	571	11.38	cps
Tin	118-1	1077	970	1000	1016	5.42	cps
Titanium	47-1	117	143	103	121	16.82	cps
Uranium	238-1	20	30	20	23	24.74	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BL Instrumnet Name : P8
Client Sample ID : PBS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:18:53 DataFile Name : 075CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	0	7	4	86.60	cps
Ytterbium	172-1	77	57	43	59	28.49	cps
Ytterbium	172-2	17	23	7	16	53.90	cps
Ytterbium	176-1	1650	1733	1630	1671	3.28	cps
Ytterbium	176-2	273	187	223	228	19.10	cps
Yttrium	89-1	19241989	19553660	18861833	19219161	1.80	cps
Yttrium	89-2	1247128	1261491	1259480	1256033	0.62	cps
Zinc	66-2	290	340	297	309	8.79	cps
Zirconium	90-1	613	590	580	594	2.88	cps
Zirconium	91-1	170	100	93	121	35.07	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BS Instrumnet Name : P8
Client Sample ID : LCS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:24:33 DataFile Name : 076LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2137	2120	1943	2067	5.18	cps
Antimony	121-1	42192	42392	42767	42450	0.69	cps
Arsenic	75-2	400	440	397	412	5.85	cps
Barium	135-1	53592	54084	53860	53845	0.46	cps
Barium	137-1	93272	95131	95010	94471	1.10	cps
Beryllium	9-1	8553	8748	8804	8701	1.52	cps
Bismuth	209-1	7984599	8047533	8259357	8097163	1.78	cps
Bismuth	209-2	3222083	3289732	3173908	3228574	1.80	cps
Bromine	81-1	7989	8096	7942	8009	0.98	cps
Cadmium	108-1	463	477	463	468	1.65	cps
Cadmium	106-1	6762	6455	6578	6598	2.34	cps
Cadmium	111-1	6729	6622	6442	6598	2.20	cps
Calcium	43-1	43900	43713	44542	44052	0.99	cps
Calcium	44-1	706328	708458	711427	708737	0.36	cps
Carbon	12-1	2751560	2682982	2691696	2708746	1.38	cps
Carbon	12-2	17310	17641	17761	17571	1.33	cps
Chlorine	35-1	1158397	1265625	1339712	1254578	7.27	cps
Chlorine	35-2	5311	5254	5038	5201	2.77	cps
Chromium	52-2	9400	9393	9166	9320	1.43	cps
Cobalt	59-2	8553	8763	8833	8716	1.67	cps
Copper	63-2	16900	16293	16843	16679	2.01	cps
Dysprosium	156-1	70	97	77	81	17.11	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	53	63	67	61	11.36	cps
Erbium	164-2	7	27	10	14	74.18	cps
Gadolinium	160-1	47	30	37	38	22.21	cps
Gadolinium	160-2	0	7	10	6	91.64	cps
Holmium	165-1	12948035	12914737	13366892	13076555	1.93	cps
Holmium	165-2	4466657	4574254	4474119	4505010	1.33	cps
Indium	115-1	10214466	10270233	10514677	10333125	1.55	cps
Indium	115-2	967751	1002632	970249	980211	1.99	cps
Iron	54-2	38569	39498	38124	38730	1.81	cps
Iron	56-2	714013	716412	706457	712294	0.73	cps
Iron	57-2	17661	18055	18138	17951	1.42	cps
Krypton	83-1	103	103	127	111	12.13	cps
Lead	206-1	18957	19405	19274	19212	1.20	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BS Instrumnet Name : P8
Client Sample ID : LCS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:24:33 DataFile Name : 076LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16617	16674	16691	16661	0.23	cps
Lead	208-1	75285	76666	76264	76072	0.93	cps
Lithium	6-1	6188437	6151221	6309287	6216315	1.33	cps
Magnesium	24-2	168757	167404	165945	167369	0.84	cps
Manganese	55-2	2370	2327	2460	2386	2.85	cps
Molybdenum	94-1	46053	46708	45952	46238	0.89	cps
Molybdenum	95-1	55557	55755	56360	55891	0.75	cps
Molybdenum	96-1	62326	62510	61586	62140	0.79	cps
Molybdenum	97-1	33992	34135	34660	34262	1.03	cps
Molybdenum	98-1	88278	89144	90550	89324	1.28	cps
Neodymium	150-1	20	20	7	16	49.47	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	3230	3367	3204	3267	2.68	cps
Phosphorus	31-2	127	193	157	159	21.01	cps
Potassium	39-2	101399	101601	102195	101732	0.41	cps
Rhodium	103-1	9312759	9440009	9696732	9483167	2.06	cps
Rhodium	103-2	3561786	3704731	3565881	3610799	2.25	cps
Scandium	45-1	7705674	7619514	7849024	7724738	1.50	cps
Scandium	45-2	130849	136019	132066	132978	2.03	cps
Selenium	82-1	1817	1820	1874	1837	1.73	cps
Selenium	77-2	17	27	47	30	50.91	cps
Selenium	78-2	93	73	97	88	14.38	cps
Silicon	28-1	574382	580887	581616	578962	0.69	cps
Silver	107-1	27594	27748	28052	27798	0.84	cps
Silver	109-1	26362	25951	26716	26343	1.45	cps
Sodium	23-2	358367	356165	356765	357099	0.32	cps
Strontium	86-1	7696	8126	7849	7890	2.76	cps
Strontium	88-1	65894	66591	65871	66119	0.62	cps
Sulfur	34-1	333768	335706	334727	334734	0.29	cps
Terbium	159-1	13268124	13245876	13449394	13321131	0.84	cps
Terbium	159-2	4202808	4443397	4293285	4313163	2.82	cps
Thallium	203-1	22052	22790	22222	22355	1.73	cps
Thallium	205-1	53115	54517	54196	53943	1.36	cps
Tin	118-1	92607	93845	92875	93109	0.70	cps
Titanium	47-1	20385	20054	20508	20316	1.16	cps
Uranium	238-1	68959	68839	68594	68797	0.27	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : PB166148BS Instrumnet Name : P8
Client Sample ID : LCS148 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:24:33 DataFile Name : 076LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17634	18322	18165	18040	2.00	cps
Ytterbium	172-1	63	67	73	68	7.51	cps
Ytterbium	172-2	23	30	13	22	37.76	cps
Ytterbium	176-1	1703	1777	1850	1777	4.13	cps
Ytterbium	176-2	267	267	257	263	2.19	cps
Yttrium	89-1	18822738	18780206	19434074	19012340	1.92	cps
Yttrium	89-2	1246071	1293309	1250417	1263266	2.07	cps
Zinc	66-2	3827	3817	3764	3803	0.90	cps
Zirconium	90-1	38409	39469	39262	39047	1.44	cps
Zirconium	91-1	8776	8583	8526	8628	1.52	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1102-01 Instrumnet Name : P8
Client Sample ID : MH2H28 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:27:55 DataFile Name : 077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	295339	293550	293932	294274	0.32	cps
Antimony	121-1	123189	126731	126370	125430	1.55	cps
Arsenic	75-2	2674	2704	2687	2688	0.56	cps
Barium	135-1	647789	664610	662650	658350	1.40	cps
Barium	137-1	1131739	1147266	1160286	1146430	1.25	cps
Beryllium	9-1	2434	2502	2401	2446	2.11	cps
Bismuth	209-1	8336734	7969706	8374827	8227089	2.72	cps
Bismuth	209-2	3048957	3148145	3172015	3123039	2.09	cps
Bromine	81-1	21200	21600	21607	21469	1.09	cps
Cadmium	108-1	20589	20933	20686	20736	0.86	cps
Cadmium	106-1	28857	29231	28503	28864	1.26	cps
Cadmium	111-1	36068	35956	37428	36484	2.25	cps
Calcium	43-1	3777640	3940763	3915243	3877882	2.26	cps
Calcium	44-1	62028174	63638656	62642642	62769824	1.29	cps
Carbon	12-1	37918815	39163474	39550683	38877657	2.19	cps
Carbon	12-2	263346	264985	263471	263934	0.35	cps
Chlorine	35-1	121016598	128088685	132619988	127241757	4.60	cps
Chlorine	35-2	513766	520692	521296	518585	0.81	cps
Chromium	52-2	107926	107490	107725	107714	0.20	cps
Cobalt	59-2	33252	33800	32918	33323	1.34	cps
Copper	63-2	797091	798543	796973	797536	0.11	cps
Dysprosium	156-1	30628	31594	32032	31418	2.29	cps
Dysprosium	156-2	9240	9163	9167	9190	0.47	cps
Erbium	164-1	22987	23487	23394	23289	1.14	cps
Erbium	164-2	7556	7622	7135	7438	3.55	cps
Gadolinium	160-1	26116	26383	25888	26129	0.95	cps
Gadolinium	160-2	10394	10534	10024	10317	2.56	cps
Holmium	165-1	13885366	13396333	13982156	13754618	2.28	cps
Holmium	165-2	4527632	4610680	4679745	4606019	1.65	cps
Indium	115-1	10795236	10323433	10840492	10653054	2.69	cps
Indium	115-2	980625	1022267	1023898	1008930	2.43	cps
Iron	54-2	1164136	1150716	1153550	1156134	0.61	cps
Iron	56-2	22073486	22019796	21973512	22022265	0.23	cps
Iron	57-2	536508	531672	530440	532873	0.60	cps
Krypton	83-1	200	197	177	191	6.60	cps
Lead	206-1	4981258	4962038	5141316	5028204	1.96	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1102-01 Instrumnet Name : P8
Client Sample ID : MH2H28 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:27:55 DataFile Name : 077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4119879	4152714	4194943	4155845	0.91	cps
Lead	208-1	19188085	19381560	19550393	19373346	0.94	cps
Lithium	6-1	6458674	6233207	6371554	6354478	1.79	cps
Magnesium	24-2	1234395	1236367	1227244	1232669	0.39	cps
Manganese	55-2	512364	511174	510326	511288	0.20	cps
Molybdenum	94-1	82841	87904	84161	84969	3.09	cps
Molybdenum	95-1	16613	16206	16183	16334	1.48	cps
Molybdenum	96-1	30407	30263	29648	30106	1.34	cps
Molybdenum	97-1	10140	10404	10070	10205	1.72	cps
Molybdenum	98-1	25624	25887	26642	26051	2.03	cps
Neodymium	150-1	48206	48751	48711	48556	0.63	cps
Neodymium	150-2	11598	11852	11612	11687	1.22	cps
Nickel	60-2	26996	27473	27012	27160	1.00	cps
Phosphorus	31-2	9660	9300	9513	9491	1.91	cps
Potassium	39-2	882473	889971	890517	887654	0.51	cps
Rhodium	103-1	9770089	9399811	9693969	9621290	2.03	cps
Rhodium	103-2	3560403	3670636	3680980	3637340	1.84	cps
Scandium	45-1	8418076	8147936	8546634	8370882	2.43	cps
Scandium	45-2	136138	142855	146144	141712	3.60	cps
Selenium	82-1	627	643	830	700	16.13	cps
Selenium	77-2	73	47	53	58	24.02	cps
Selenium	78-2	57	67	57	60	9.62	cps
Silicon	28-1	22661958	22796908	23213209	22890692	1.26	cps
Silver	107-1	214082	215354	216144	215193	0.48	cps
Silver	109-1	201654	206486	207028	205056	1.44	cps
Sodium	23-2	18748331	18557501	18751156	18685663	0.59	cps
Strontium	86-1	1829932	1841369	1810654	1827318	0.85	cps
Strontium	88-1	15271458	15622866	15581547	15491957	1.24	cps
Sulfur	34-1	2471070	2442380	2463551	2459000	0.60	cps
Terbium	159-1	14089380	13474798	14039987	13868055	2.46	cps
Terbium	159-2	4340293	4447211	4446919	4411475	1.40	cps
Thallium	203-1	3921	5538	6555	5338	24.89	cps
Thallium	205-1	9517	13497	15633	12882	24.09	cps
Tin	118-1	219569	221995	222523	221362	0.71	cps
Titanium	47-1	322746	326040	331871	326886	1.41	cps
Uranium	238-1	46552	47147	46880	46859	0.64	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : Q1102-01 Instrumnet Name : P8
Client Sample ID : MH2H28 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:27:55 DataFile Name : 077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	36884	36897	37095	36959	0.32	cps
Ytterbium	172-1	6905	7215	7359	7160	3.24	cps
Ytterbium	172-2	2710	2730	2934	2791	4.43	cps
Ytterbium	176-1	6655	6635	6672	6654	0.28	cps
Ytterbium	176-2	2157	2057	2097	2104	2.39	cps
Yttrium	89-1	20649968	19894936	20754096	20433000	2.29	cps
Yttrium	89-2	1311119	1371211	1429091	1370473	4.30	cps
Zinc	66-2	1141858	1131516	1132323	1135232	0.51	cps
Zirconium	90-1	197938	209431	207685	205018	3.02	cps
Zirconium	91-1	46478	45410	45439	45776	1.33	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P8
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:31:17 DataFile Name : 078CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2411083	2370772	2339863	2373906	1.50	cps
Antimony	121-1	5149579	5176643	5200011	5175411	0.49	cps
Arsenic	75-2	90139	89535	88898	89524	0.69	cps
Barium	135-1	6598062	6648705	6563212	6603326	0.65	cps
Barium	137-1	11457130	11474751	11179340	11370407	1.46	cps
Beryllium	9-1	1946910	1965348	1938266	1950174	0.71	cps
Bismuth	209-1	7050171	6885469	7114395	7016678	1.68	cps
Bismuth	209-2	2627830	2756263	2564274	2649456	3.69	cps
Bromine	81-1	7565	7759	7232	7519	3.55	cps
Cadmium	108-1	102333	101903	100191	101475	1.12	cps
Cadmium	106-1	147835	145558	147885	147093	0.90	cps
Cadmium	111-1	1166408	1178416	1160354	1168393	0.79	cps
Calcium	43-1	10155502	10227132	9847975	10076869	2.00	cps
Calcium	44-1	165140728	165002634	161966081	164036481	1.09	cps
Carbon	12-1	2936555	2965273	2985913	2962580	0.84	cps
Carbon	12-2	23125	22631	22771	22842	1.11	cps
Chlorine	35-1	4312778	3938277	3634290	3961782	8.58	cps
Chlorine	35-2	11681	10704	10100	10829	7.37	cps
Chromium	52-2	1047819	1049378	1045951	1047716	0.16	cps
Cobalt	59-2	2019319	1967858	1955940	1981039	1.70	cps
Copper	63-2	13987874	13869894	14099772	13985847	0.82	cps
Dysprosium	156-1	417	430	400	416	3.62	cps
Dysprosium	156-2	60	70	80	70	14.29	cps
Erbium	164-1	340	303	257	300	13.92	cps
Erbium	164-2	117	117	113	116	1.66	cps
Gadolinium	160-1	270	290	200	253	18.66	cps
Gadolinium	160-2	80	70	103	84	20.26	cps
Holmium	165-1	12641634	12219140	12566700	12475825	1.81	cps
Holmium	165-2	4073174	4316593	4153637	4181135	2.97	cps
Indium	115-1	9396383	9071317	9353866	9273855	1.91	cps
Indium	115-2	845380	887876	839620	857625	3.07	cps
Iron	54-2	10936515	10909416	10801018	10882316	0.66	cps
Iron	56-2	201105364	197924784	198101144	199043764	0.90	cps
Iron	57-2	5111732	5039638	5086483	5079284	0.72	cps
Krypton	83-1	197	187	167	183	8.33	cps
Lead	206-1	20687430	20656465	20631421	20658439	0.14	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P8
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:31:17 DataFile Name : 078CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18085911	17939732	17879608	17968417	0.59	cps
Lead	208-1	83046720	82651955	82665962	82788212	0.27	cps
Lithium	6-1	5588409	5496073	5479713	5521398	1.06	cps
Magnesium	24-2	40195281	40010049	39154187	39786506	1.40	cps
Manganese	55-2	4778445	4780388	4790895	4783243	0.14	cps
Molybdenum	94-1	18981781	19301148	18943396	19075442	1.03	cps
Molybdenum	95-1	27365069	27931300	27422029	27572799	1.13	cps
Molybdenum	96-1	30032150	30085990	29813388	29977176	0.48	cps
Molybdenum	97-1	17011735	16831923	16736069	16859909	0.83	cps
Molybdenum	98-1	44594208	44751574	44092346	44479376	0.77	cps
Neodymium	150-1	877	737	750	788	9.81	cps
Neodymium	150-2	27	33	63	41	47.50	cps
Nickel	60-2	500057	493401	498965	497474	0.72	cps
Phosphorus	31-2	19740	19740	19924	19801	0.54	cps
Potassium	39-2	11414974	11260612	11305467	11327018	0.70	cps
Rhodium	103-1	8139934	7981662	8166975	8096190	1.24	cps
Rhodium	103-2	2948015	3050529	2924789	2974444	2.25	cps
Scandium	45-1	7505595	7276871	7377992	7386819	1.55	cps
Scandium	45-2	122013	128488	122103	124201	2.99	cps
Selenium	82-1	80111	79723	80158	79997	0.30	cps
Selenium	77-2	1180	1253	1133	1189	5.09	cps
Selenium	78-2	4611	4491	4597	4566	1.44	cps
Silicon	28-1	32532368	31798400	31792874	32041214	1.33	cps
Silver	107-1	6495841	6425416	6349434	6423564	1.14	cps
Silver	109-1	6190561	6170240	6092743	6151182	0.84	cps
Sodium	23-2	80134595	79795427	78851822	79593948	0.84	cps
Strontium	86-1	2007877	1984342	1975254	1989158	0.85	cps
Strontium	88-1	16958895	16710116	16471115	16713375	1.46	cps
Sulfur	34-1	981214	975888	967504	974869	0.71	cps
Terbium	159-1	12763261	12575646	12974650	12771186	1.56	cps
Terbium	159-2	3952949	4075488	3908039	3978825	2.18	cps
Thallium	203-1	5448115	5267433	5327634	5347727	1.72	cps
Thallium	205-1	12691168	12569600	12579054	12613274	0.54	cps
Tin	118-1	4419423	4439460	4393672	4417518	0.52	cps
Titanium	47-1	8796724	8802560	8690224	8763169	0.72	cps
Uranium	238-1	16954073	17075678	17103961	17044571	0.47	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCV005 Instrumnet Name : P8
Client Sample ID : CCV005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:31:17 DataFile Name : 078CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	837438	836509	835932	836626	0.09	cps
Ytterbium	172-1	330	393	340	354	9.61	cps
Ytterbium	172-2	127	130	130	129	1.49	cps
Ytterbium	176-1	25962	25839	25799	25866	0.33	cps
Ytterbium	176-2	8496	8273	8459	8409	1.43	cps
Yttrium	89-1	18372106	17699358	18294986	18122150	2.03	cps
Yttrium	89-2	1157022	1212008	1145522	1171517	3.03	cps
Zinc	66-2	1447223	1434647	1441233	1441034	0.44	cps
Zirconium	90-1	9763795	9765114	9635934	9721614	0.76	cps
Zirconium	91-1	2210949	2182017	2178392	2190453	0.81	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P8
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:37:29 DataFile Name : 080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	93	57	90	80	25.34	cps
Antimony	121-1	370	370	297	346	12.25	cps
Arsenic	75-2	3	0	7	3	100.05	cps
Barium	135-1	470	453	453	459	2.10	cps
Barium	137-1	763	740	647	717	8.61	cps
Beryllium	9-1	459	369	400	409	11.17	cps
Bismuth	209-1	7750239	7934975	7947972	7877729	1.40	cps
Bismuth	209-2	3192062	3116094	3061317	3123158	2.10	cps
Bromine	81-1	6308	6398	6388	6365	0.78	cps
Cadmium	108-1	30	30	27	29	6.65	cps
Cadmium	106-1	5311	5688	5675	5558	3.85	cps
Cadmium	111-1	1085	1167	1166	1139	4.15	cps
Calcium	43-1	357	333	333	341	3.95	cps
Calcium	44-1	6535	6348	6568	6484	1.83	cps
Carbon	12-1	2586975	2608656	2596795	2597475	0.42	cps
Carbon	12-2	16583	16780	16549	16637	0.75	cps
Chlorine	35-1	657454	629502	604246	630401	4.22	cps
Chlorine	35-2	2150	2217	1973	2114	5.95	cps
Chromium	52-2	433	500	473	469	7.16	cps
Cobalt	59-2	137	123	123	128	6.02	cps
Copper	63-2	2740	2557	2637	2645	3.48	cps
Dysprosium	156-1	17	33	27	26	32.81	cps
Dysprosium	156-2	3	3	7	4	43.40	cps
Erbium	164-1	77	83	63	74	13.68	cps
Erbium	164-2	37	10	23	23	57.15	cps
Gadolinium	160-1	40	37	47	41	12.39	cps
Gadolinium	160-2	3	17	10	10	66.70	cps
Holmium	165-1	12416190	12721875	12784963	12641009	1.56	cps
Holmium	165-2	4419813	4401784	4317702	4379766	1.24	cps
Indium	115-1	9969383	10187859	10152307	10103183	1.16	cps
Indium	115-2	953531	959543	953801	955625	0.36	cps
Iron	54-2	277	347	340	321	12.03	cps
Iron	56-2	4904	5141	4798	4948	3.55	cps
Iron	57-2	137	160	120	139	14.47	cps
Krypton	83-1	147	137	107	130	16.01	cps
Lead	206-1	1727	1787	1540	1685	7.64	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P8
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:37:29 DataFile Name : 080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1523	1527	1433	1495	3.54	cps
Lead	208-1	7014	6884	6597	6832	3.12	cps
Lithium	6-1	6071415	6154205	6139504	6121708	0.72	cps
Magnesium	24-2	407	560	450	472	16.74	cps
Manganese	55-2	267	250	303	273	9.98	cps
Molybdenum	94-1	624	453	390	489	24.70	cps
Molybdenum	95-1	397	293	283	324	19.34	cps
Molybdenum	96-1	470	397	403	423	9.58	cps
Molybdenum	97-1	200	160	193	184	11.62	cps
Molybdenum	98-1	573	427	413	471	18.84	cps
Neodymium	150-1	23	13	17	18	28.64	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	890	863	880	878	1.53	cps
Phosphorus	31-2	33	33	27	31	12.36	cps
Potassium	39-2	5955	6011	5695	5887	2.87	cps
Rhodium	103-1	9098441	9263420	9408918	9256926	1.68	cps
Rhodium	103-2	3590700	3520462	3496815	3535992	1.38	cps
Scandium	45-1	7429765	7642826	7650995	7574529	1.66	cps
Scandium	45-2	129507	128411	127566	128495	0.76	cps
Selenium	82-1	10	-20	-3	-4	-338.02	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	7	7	4	86.60	cps
Silicon	28-1	356833	351230	349737	352600	1.06	cps
Silver	107-1	303	277	263	281	7.25	cps
Silver	109-1	183	203	170	186	9.04	cps
Sodium	23-2	18722	18498	18789	18670	0.81	cps
Strontium	86-1	253	197	217	222	12.93	cps
Strontium	88-1	597	463	540	533	12.55	cps
Sulfur	34-1	322158	323132	321837	322376	0.21	cps
Terbium	159-1	12708647	13071659	13064334	12948213	1.60	cps
Terbium	159-2	4144760	4274142	4213958	4210953	1.54	cps
Thallium	203-1	553	543	550	549	0.93	cps
Thallium	205-1	1390	1263	1237	1297	6.32	cps
Tin	118-1	1093	1177	1120	1130	3.77	cps
Titanium	47-1	130	127	103	120	12.11	cps
Uranium	238-1	77	80	77	78	2.47	cps

LB Number : LB134440 Operator : Jaswal
Lab Sample ID : CCB005 Instrumnet Name : P8
Client Sample ID : CCB005 Dilution Factor : 1
Date & Time Acquired : 2025-01-24 14:37:29 DataFile Name : 080CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	17	17	14	26.66	cps
Ytterbium	172-1	53	57	107	72	41.37	cps
Ytterbium	172-2	23	33	40	32	26.04	cps
Ytterbium	176-1	1640	1540	1443	1541	6.38	cps
Ytterbium	176-2	193	233	217	214	9.37	cps
Yttrium	89-1	18024334	18942703	18531774	18499604	2.49	cps
Yttrium	89-2	1226523	1229892	1221969	1226128	0.32	cps
Zinc	66-2	317	323	310	317	2.10	cps
Zirconium	90-1	587	737	760	694	13.55	cps
Zirconium	91-1	120	137	147	134	10.02	cps

Prep Standard - Chemical Standard Summary

Order ID : Q1089

Test : Metals CLP MS

Prepbatch ID : PB166174,

Sequence ID/Qc Batch ID: LB134440,

Standard ID :

MP83499,MP84041,MP84042,MP84043,MP84044,MP84045,MP84046,MP84047,MP84048,MP84049,MP84050,MP84051,MP84052,MP84053,MP84054,MP84055,MP84056,MP84057,MP84073,MP84074,MP84099,

Chemical ID :

M5288,M5289,M5295,M5298,M5304,M5472,M5476,M5496,M5497,M5498,M5513,M5516,M5519,M5658,M5697,M5739,M5751,M5768,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5819,M5820,M5873,M5874,M5961,M5962,M5976,M5978,M5981,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6032,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>
170	1:1HCL	MP83499	12/09/2024	01/30/2025	Eman Mughal	None	None	Sarabjit Jaswal
								12/09/2024

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 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	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal
								01/16/2025

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)	MP84042	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIP ETTE_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

<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_PIP ETTE_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

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)	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

<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

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)	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

<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

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)	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

<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

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)	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

<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

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	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

<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

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>
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

<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

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	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

<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
<u>FROM</u>	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							

<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	MP84074	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025
<u>FROM</u> 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP84042 = 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>
3963	CONC.LCSW SPIKE	MP84099	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 0.05000ml of M5472 + 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 M5289 + 0.10000ml of M5658 + 0.10000ml of M5697 + 0.10000ml of M5802 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.25000ml of M6128 + 0.50000ml of M6032 + 1.00000ml of M5298 + 1.25000ml of M5816 + 1.25000ml of M5820 + 1.25000ml of M6121 + 2.50000ml of M5497 + 2.50000ml of M5516 + 2.50000ml of M5519 + 2.50000ml of M5768 + 2.50000ml of M6126 + 226.35000ml of W3112 = Final Quantity:
250.000 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.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

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.	58111 / Na, 10000 PPM, 500 ml	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

CHEMICAL RECEIPT LOG BOOK

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.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

CHEMICAL RECEIPT LOG BOOK

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.	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

CHEMICAL RECEIPT LOG BOOK

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

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	CGT11-1 / 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

CHEMICAL RECEIPT LOG BOOK

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

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	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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



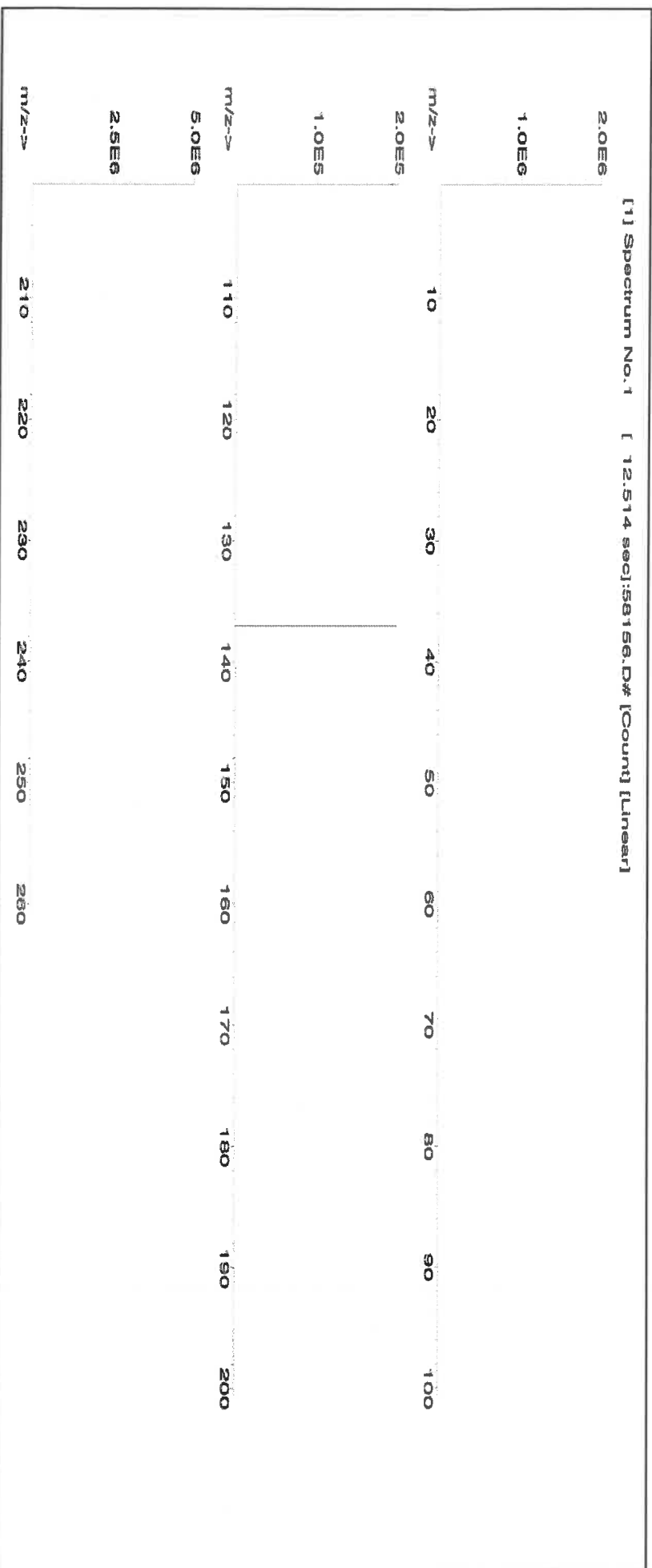
**CERTIFIED WEIGHT REPORT:**

Formulated By:	Giovanni Esposito	010924
Reviewed By:	Pedro L. Rentas	010924

SDS information

[illegible]

1. Barium nitrate (Ba)	IN023	BAD02019A1	1000	99.999	0.10	52.3	3.82417	3.82441	1000.1	2.0	10022-31-8	0.5 mg/m3	ort-rat 355 mg/kg	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

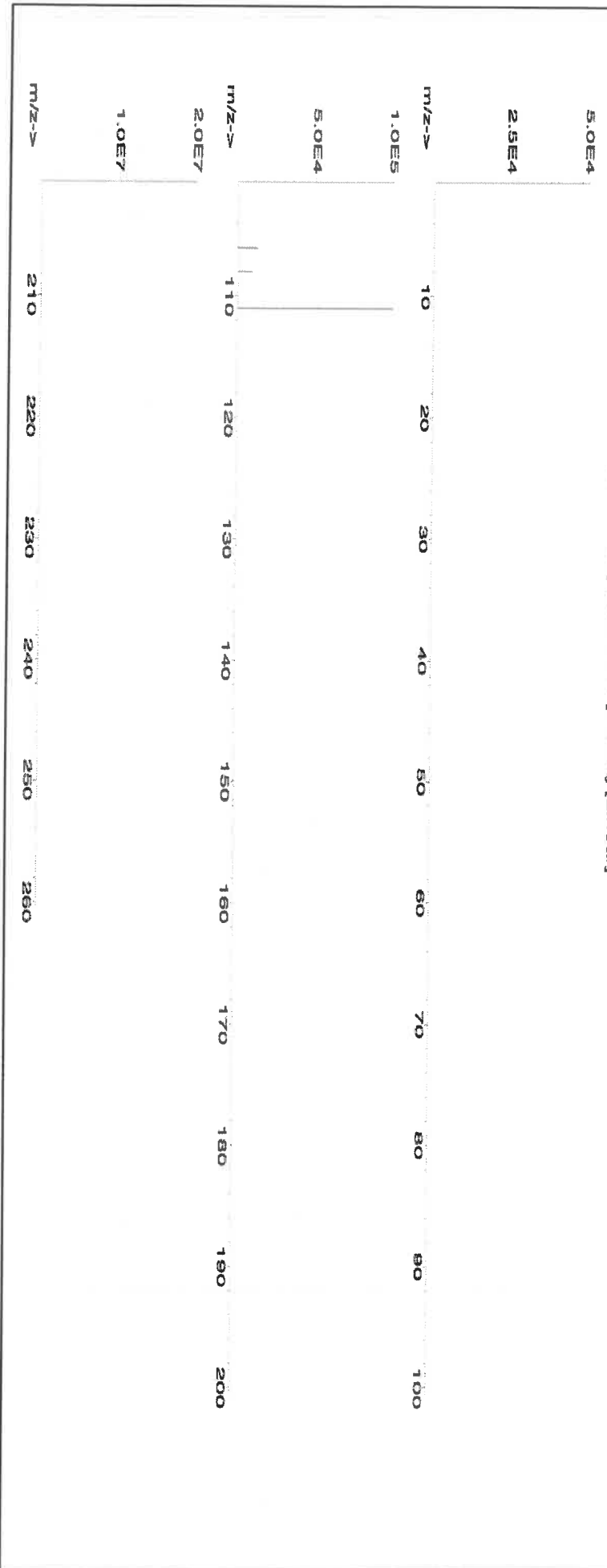
SDS Information

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**
Lot Number: **110923**
Description: **Lead (Pb)**

Solvent: **24002546 Nitric Acid**
Lot #: **M6025**

Expiration Date: **110926**
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** **0.058** **Flask Uncertainty**

Formulated By:	Lawrence Barry
	110923
Reviewed By:	Pedro L. Rentas
	110923

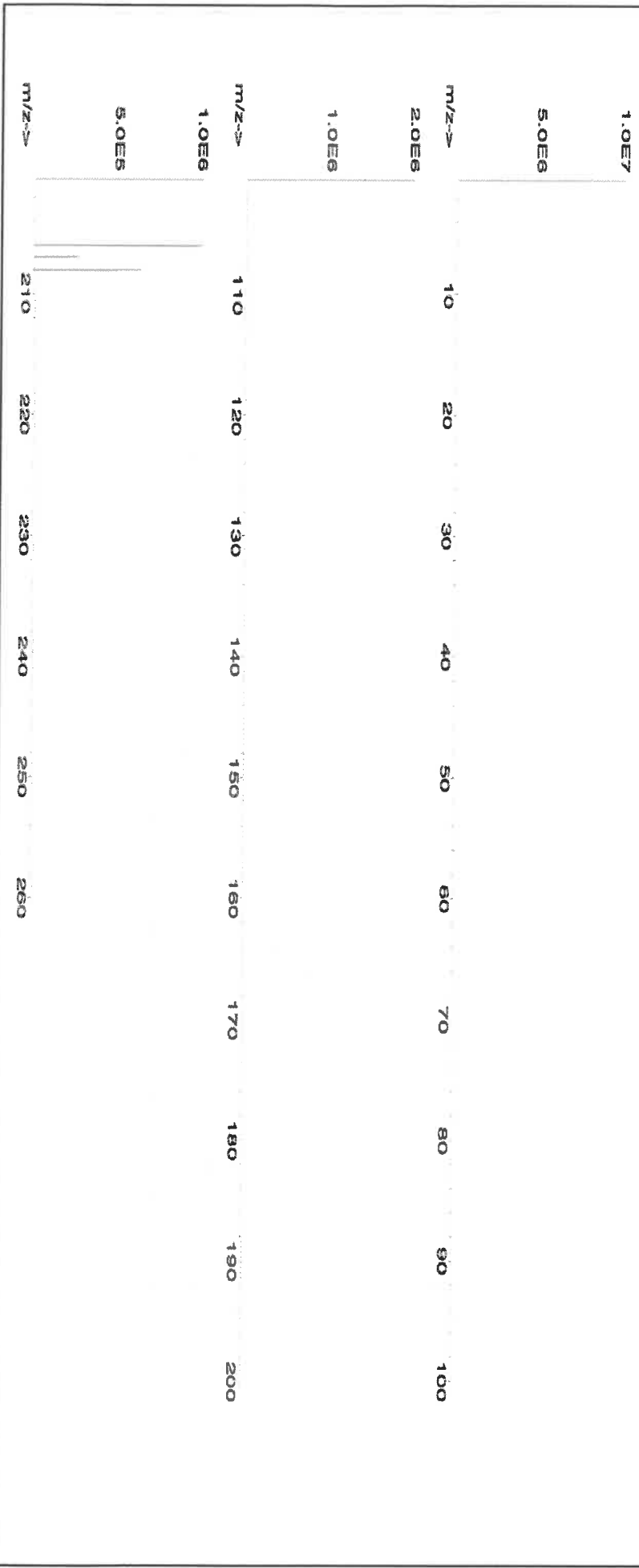
Compound

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

SDS Information

1. **Lead(II) nitrate (Pb)** **IN029** **PED12016A1** **10000** **99.999** **0.10** **62.5** **32.0006** **32.0040** **10001.1** **20.0** **10099-74-8** **0.05 mg/m3** **inhalant 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

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



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122

Solvent: 20510011 Nitric Acid

Lot #

Description: Potassium (K)

Expiration Date: 071125

2% 40.0 (mL) Nitric Acid

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

<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)

LD50

NIST SRM

SDS Information

(Solvent Safety Info. On Attached pg.)

1. Potassium nitrate (K)

IN034 KD022021A1

10000

99.999

0.10

37.6

53.1925

53.1934

10000.2

20.0

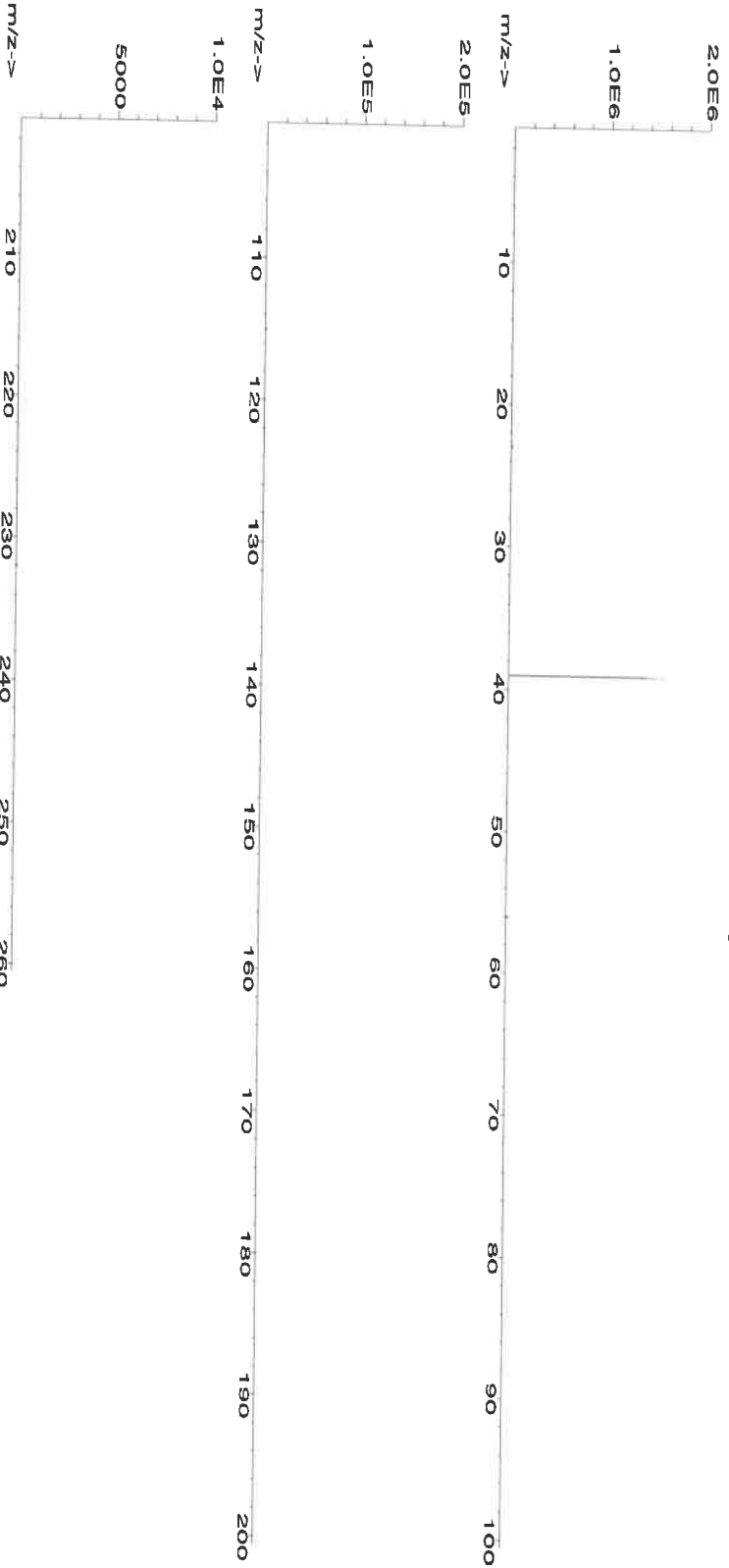
7757-79-1

5 mg/m3

oral 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)

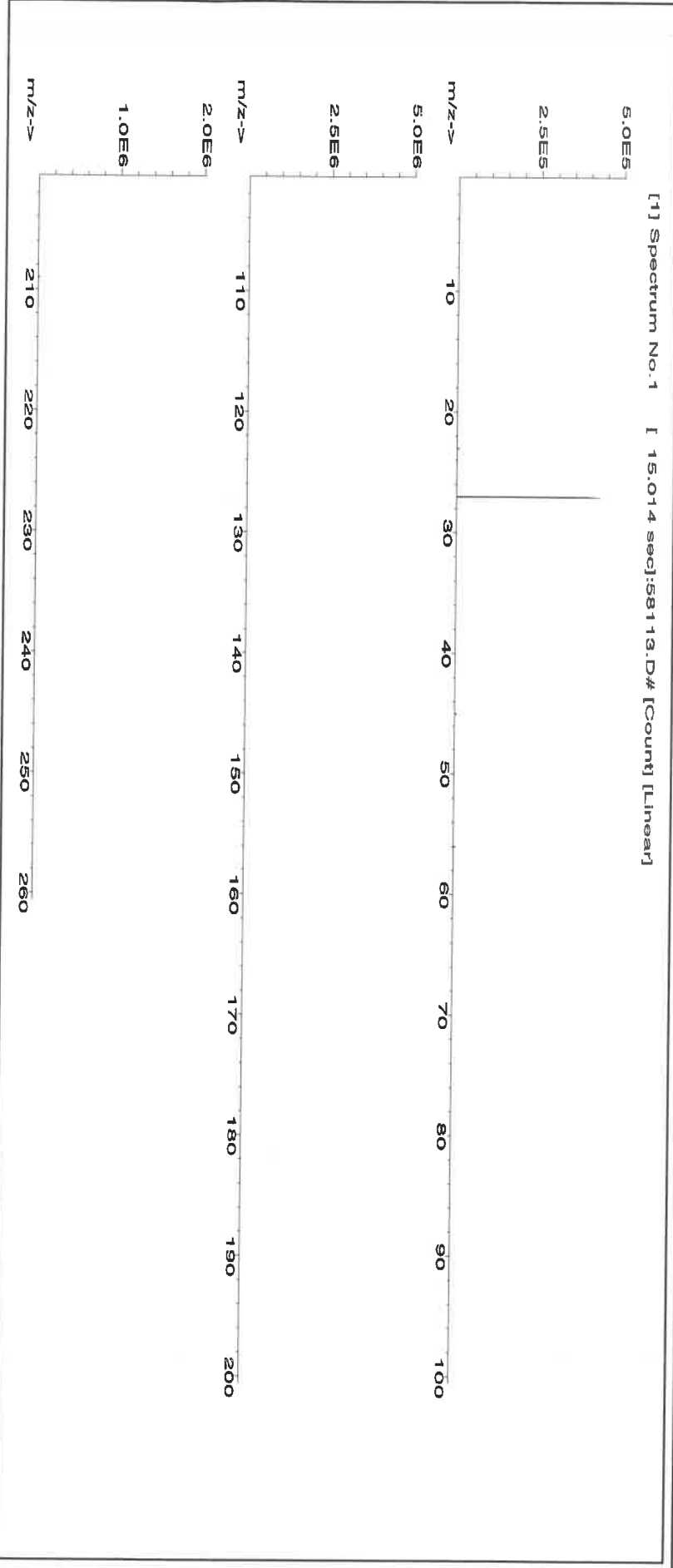
Lot #
Solvent: 20370011 Nitric Acid

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
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																			
Compound		Lot		Nominal		Purity		Uncertainty		Assay		Target		Actual		Actual		Expanded	
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	± (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM						

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.
- * 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: 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

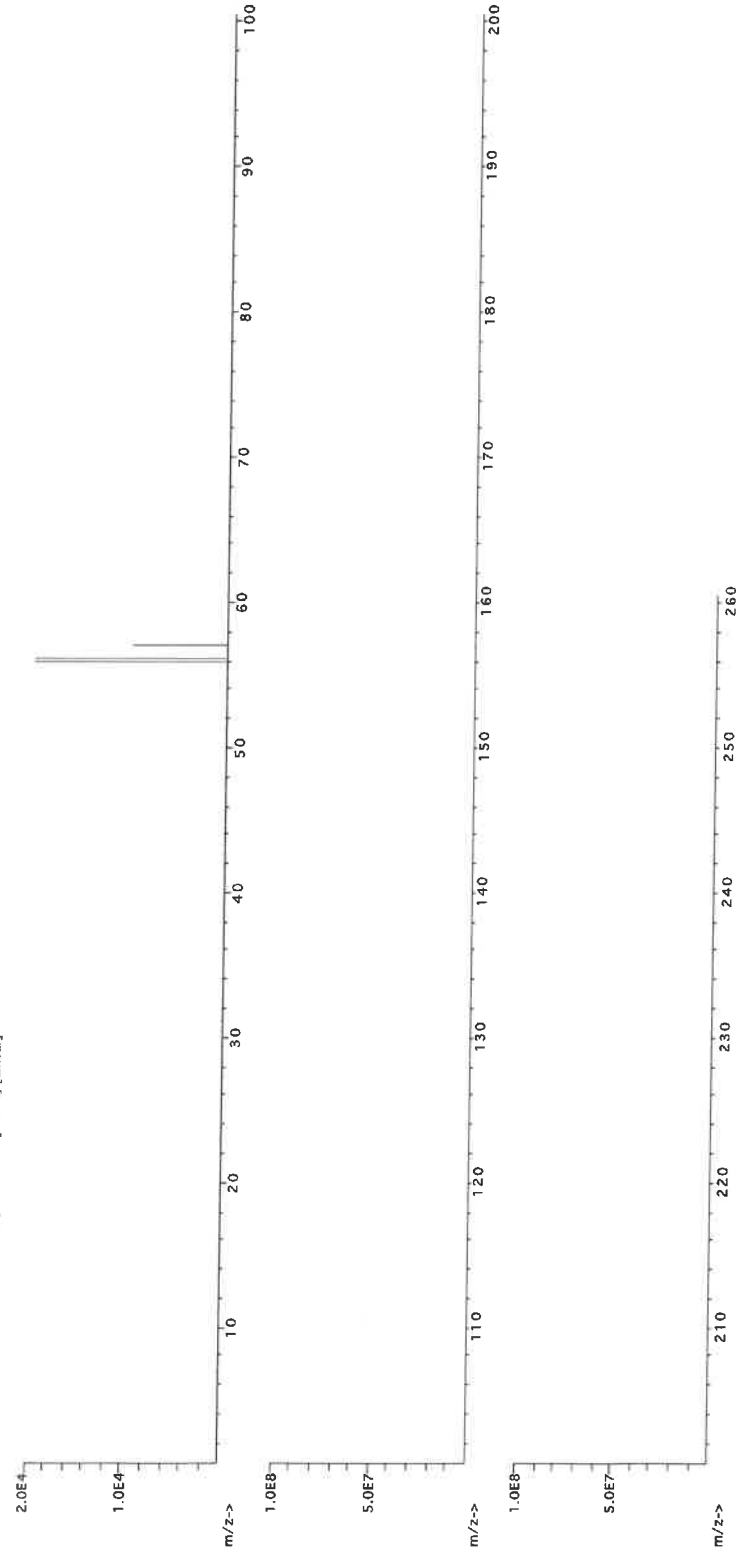
5.0%
150.0
(mL)
Nitric Acid

Giovanni Esposito	
Formulated By:	Giovanni Esposito 020422
Pedro L. Rentas	
Reviewed By:	Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. ($\mu\text{g/mL}$)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. ($\mu\text{g/mL}$)	Expanded Uncertainty +/- ($\mu\text{g/mL}$)	SDS Information		
											(Solvent Safety Info. On Attached pg.)	LD50	NIST SRM

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.
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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





Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: **58113**
Lot Number: **011623**
Description: **Aluminum (Al)**

Solvent: **20510011 Nitric Acid**

Lot #

R 17/20/23

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: **6UTB**

Weight shown below was diluted to (mL): **2000.02**

5E-05 Balance Uncertainty

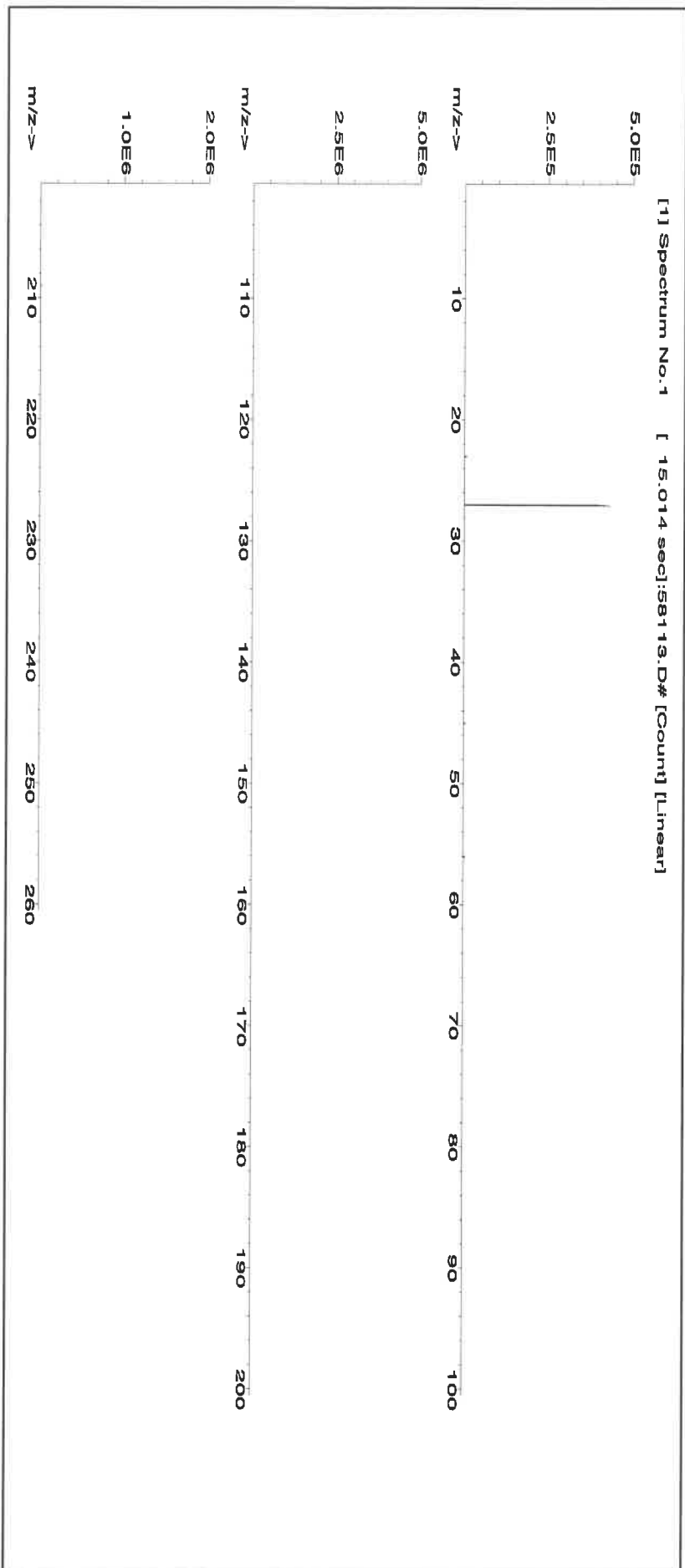
0.058 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
	011623
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	011623

SDS Information									
Compound	Lot	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
1. Aluminum nitrate nonahydrate (Al)	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	10001.1	20.0
									7784-27-2
									2 mg/mL
									or 1 rat 3671 mg/kg
									3101a

[1] Spectrum No. 1 [15.014 sec]:58113.D# [Count] [Linear]





CERTIFIED WEIGHT REPORT:

Part Number:

Lot Number: 031523

Description:

Calcium (Ca)

Expiration Date:

031526

Recommended Storage: Ambient (20 °C)

10000

NIST Test Number:

617B

Weight shown below was diluted to (mL): 3000.41

5E-05 Balance Uncertainty

0.058 Flask Uncertainty

卷一

Solvent: 21110221 Nitric Acid

Nitric Acid

2% Nitric Acid

(mL)

Nitric Acid

Formulated By: Giovanni Esposito

031523

Reviewed By: Pedro L. Rentas

031523

SDS Information

Expanded

Uncertainty

Actual

Actual

Target

Integrity Assay

Purity Unk

Nominal

Lot

1

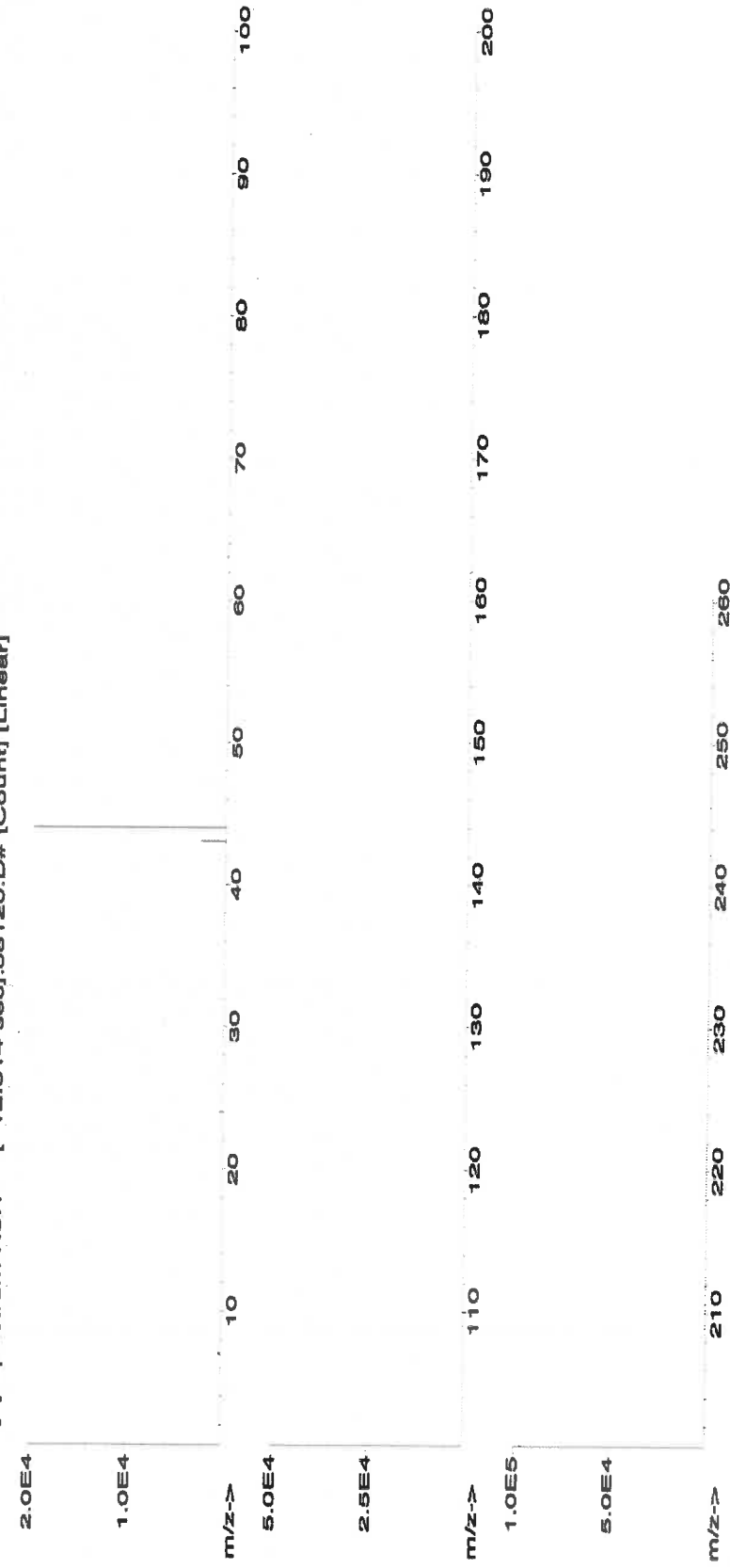
(Solvent Safety Info. On Attached pg.)

NIST

SRM

[illegible]

[1] Spectrum No.1 [12.514 sec]:58120.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	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).



15497-15498 R203/17/23(2)

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58120
031523
Calcium (Ca)

Solvent: 21110221 Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

031526
Ambient (20 °C)
10000
6UTB
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

2%
60.0
Nitric Acid
(mL)

Weight shown below was diluted to (mL): 3000.41

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito 031523
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas 031523

SDS Information

(Solvent Safety Info. On Attached pg.)
NIST
SRM

Expanded
Uncertainty

Actual
Conc. (µg/mL)

Actual
Weight (g)

Target
Weight (g)

Assay
(%)

Purity
(%)

Nominal
Conc. (µg/mL)

Lot
Number

RM#

Compound

1. Calcium carbonate (Ca)

IN014 CAD072022A1

10000

99.999

0.10

39.9

75.1990

75.2093

10001.4

20.0

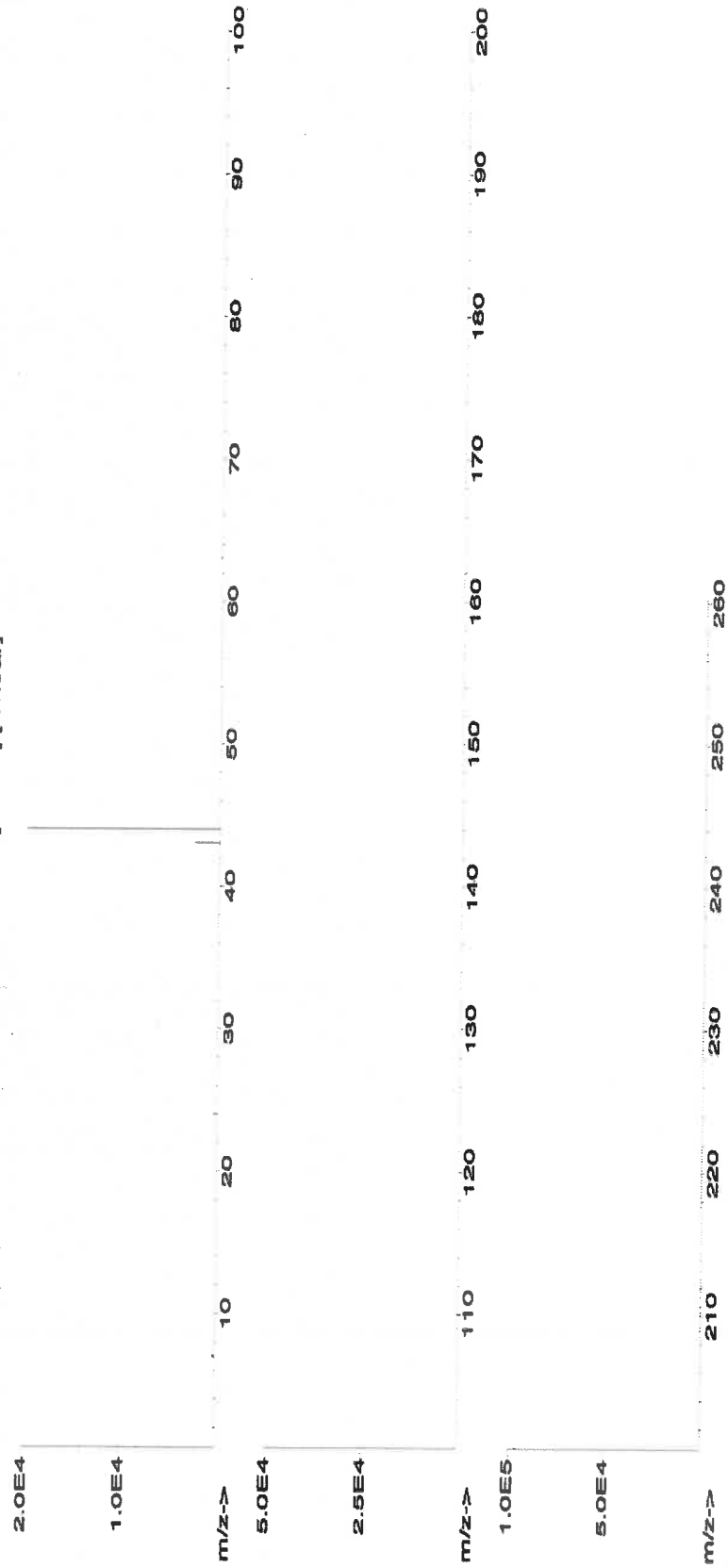
471-34-1

5 mg/m3

or-rat >2000mg/kg

3109a

[1] Spectrum No.1 [12.514 sec]:58120.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
Sb	<0.02	Ca	<0.02	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<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
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
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
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	Tl	<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 (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.
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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).



Certified Reference Material CRM



M586 M587 R:03/17/22

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

Solvent: 21110221 Nitric Acid

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

2% 60.0 Nitric Acid (mL)

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

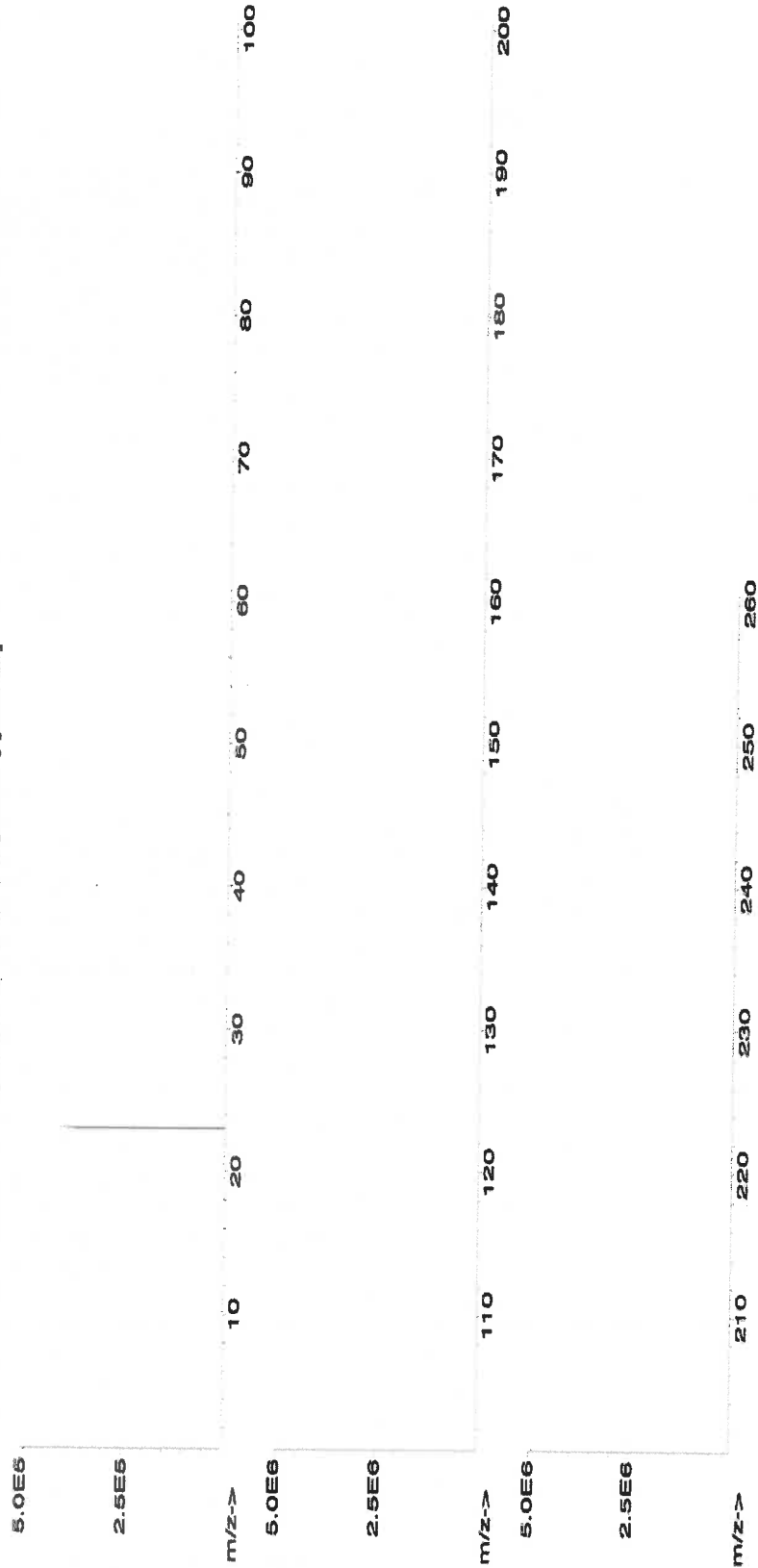
Formulated By:	Lawrence Barry 022123
Reviewed By:	Pedro L. Rentas 022123

SDS Information

Expanded Uncertainty (Solvent Safety Info. On Attached pg.) NIST SRM
+/- (µg/mL) CAS# OSHA PEL (TWA) LD50

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

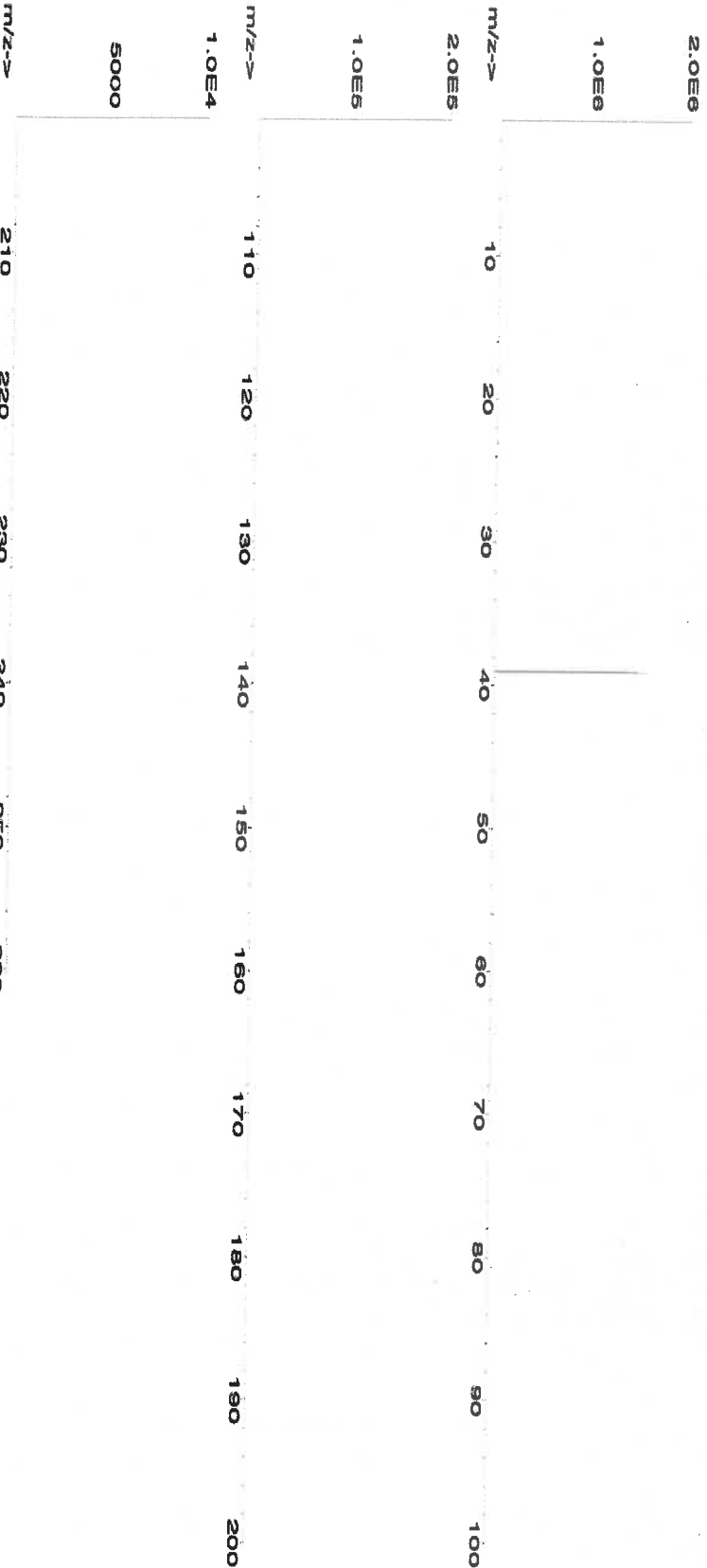
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	120822

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

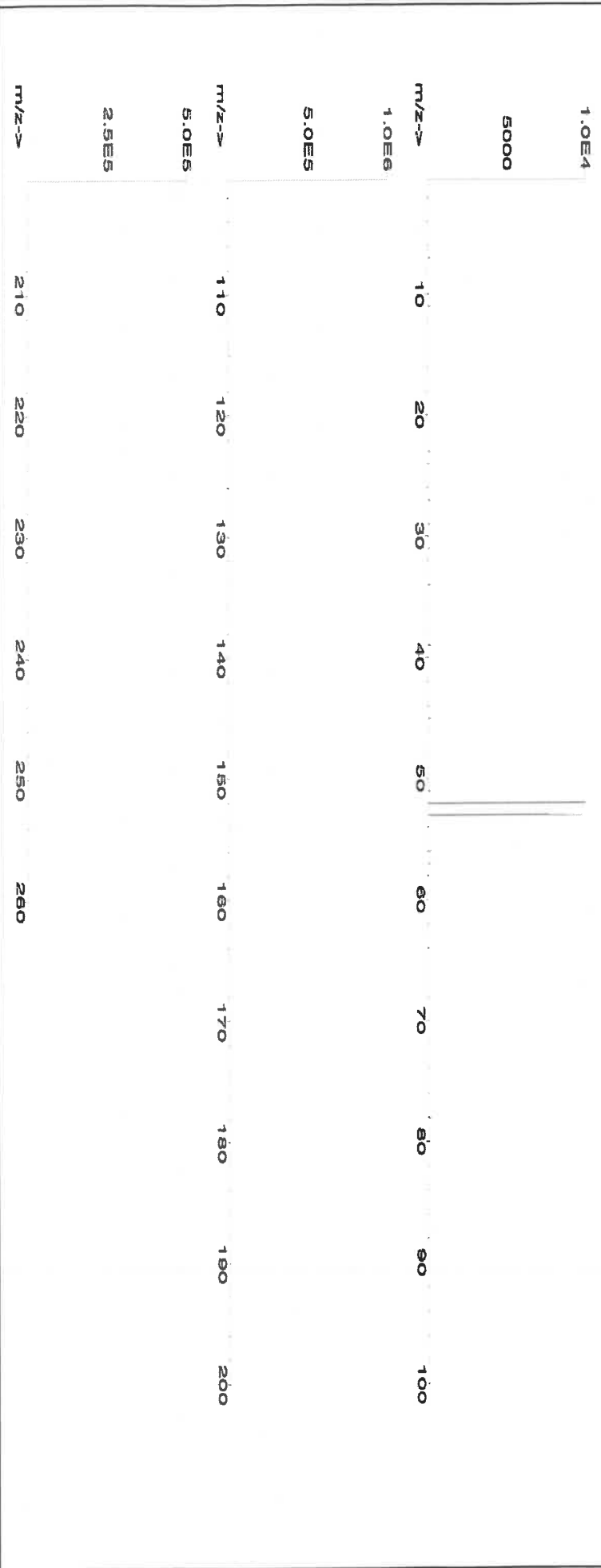
Volume shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

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

[1] Spectrum No.1 [31.393 sec]:57024.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	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).



CERTIFIED WEIGHT REPORT:

Part Number: 58029
Lot Number: 102523
Description: Copper (Cu)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date: 102526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.058

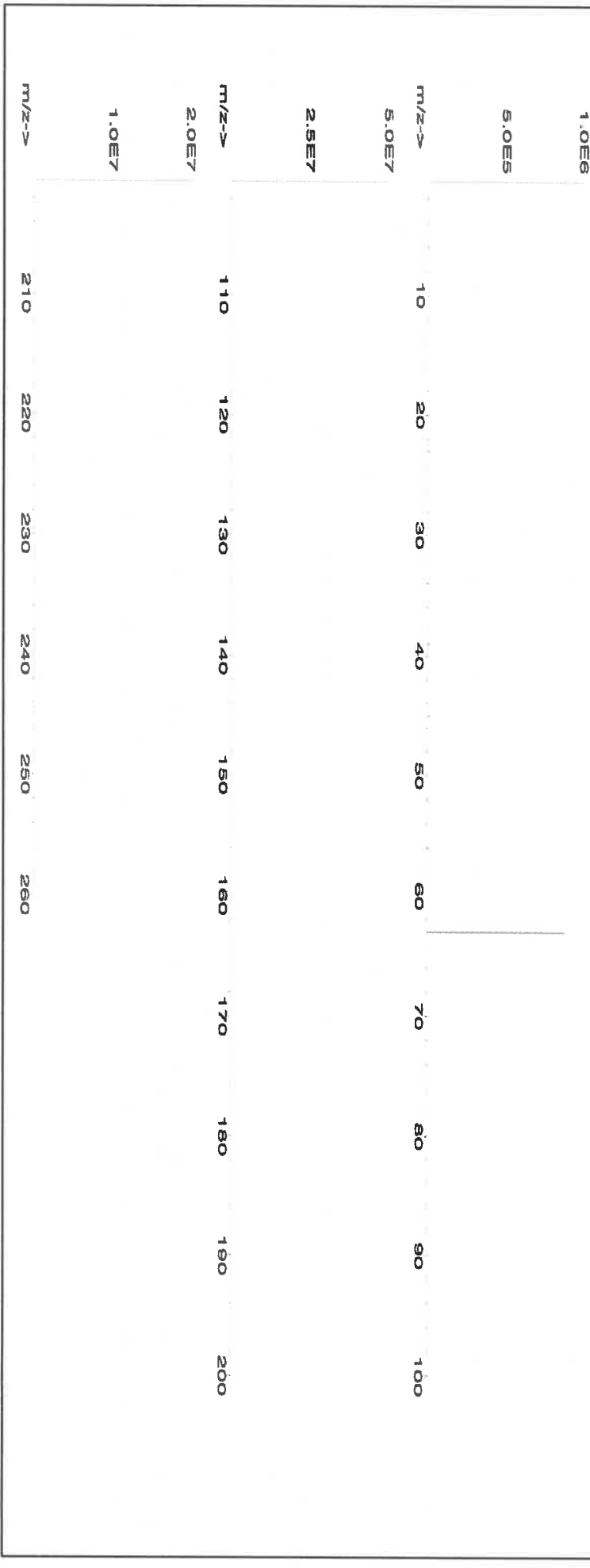
Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Copper(II) nitrate trihydrate (Cu) 58129 100223 0.1000 200.0 0.084 1000 10000.1 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]





CERTIFIED WEIGHT REPORT:

Part Number: **58029**
Lot Number: **071723**
Description: **Copper (Cu)**

Lot #: **2110221**
Solvent: **Nitric Acid**

2.0% 40.0 (mL) Nitric Acid

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**

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Ruelas	071723

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

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.
- * 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).



M5768 M5769
Certified Reference Material CRM
R: 1/13/24



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58112
091823
Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date:

091826

2% 40.0 (mL) Nitric Acid

Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

Ambient (20 °C)
10000
6UTB

M5768 M5769

BP R: 1/13/24

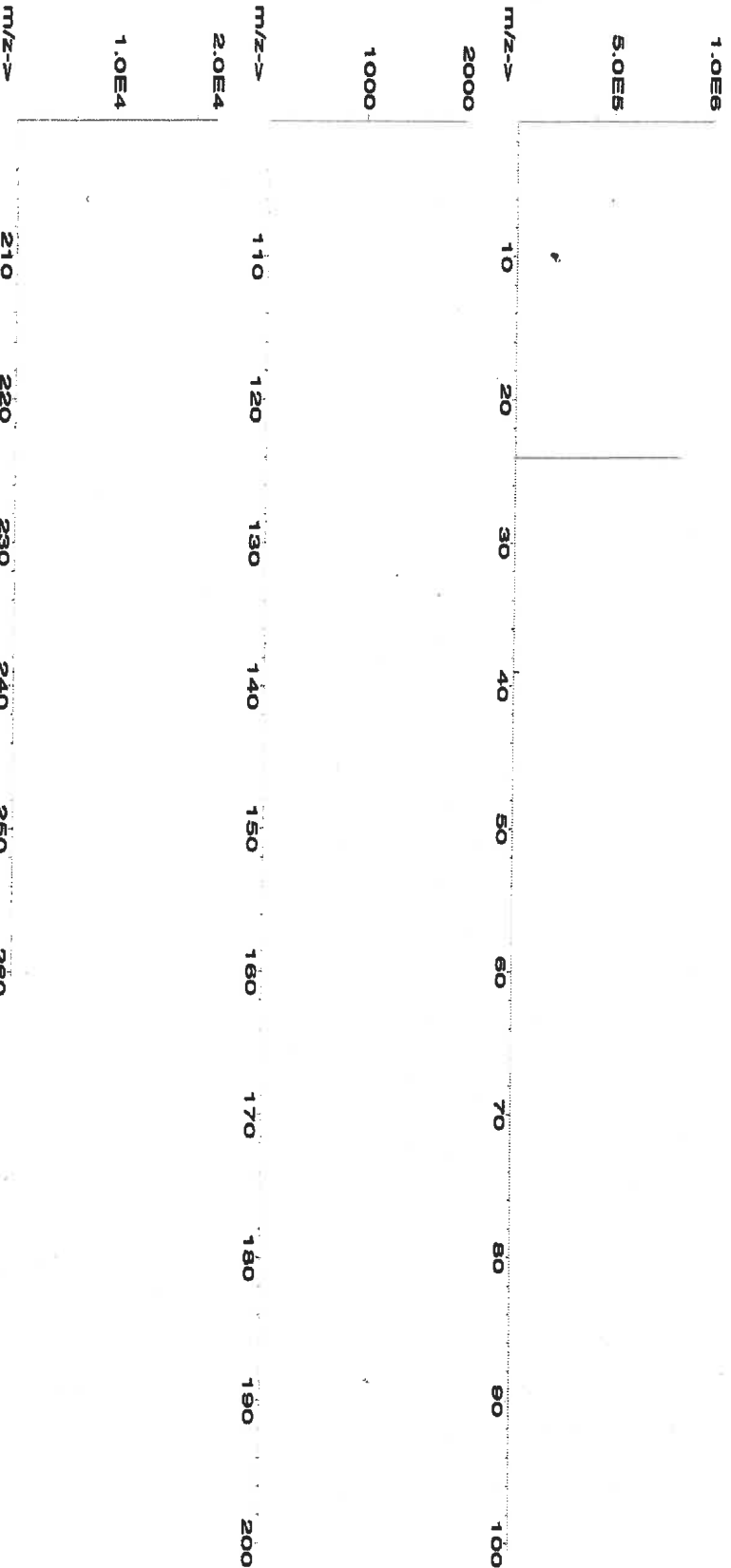
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Compound

Compound	Lot	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. 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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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:
Nominal Concentration (µg/mL):

Ambient (20 °C)

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

5E-05

Balance Uncertainty
0.058

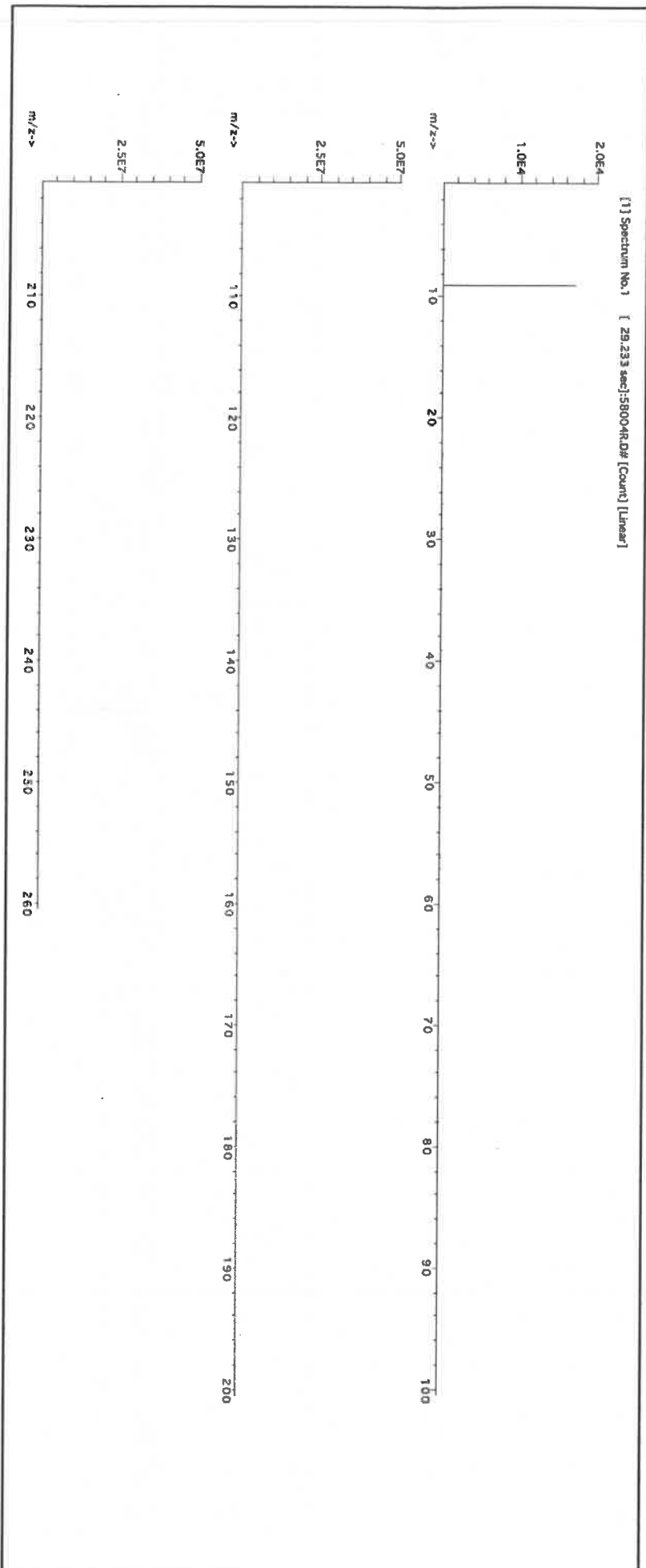
Flask Uncertainty

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

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





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	Ta	<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:

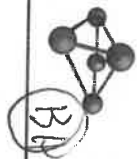
Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid
22D0562008 Hydrochloric acid

Lot #

R-02509124

M599



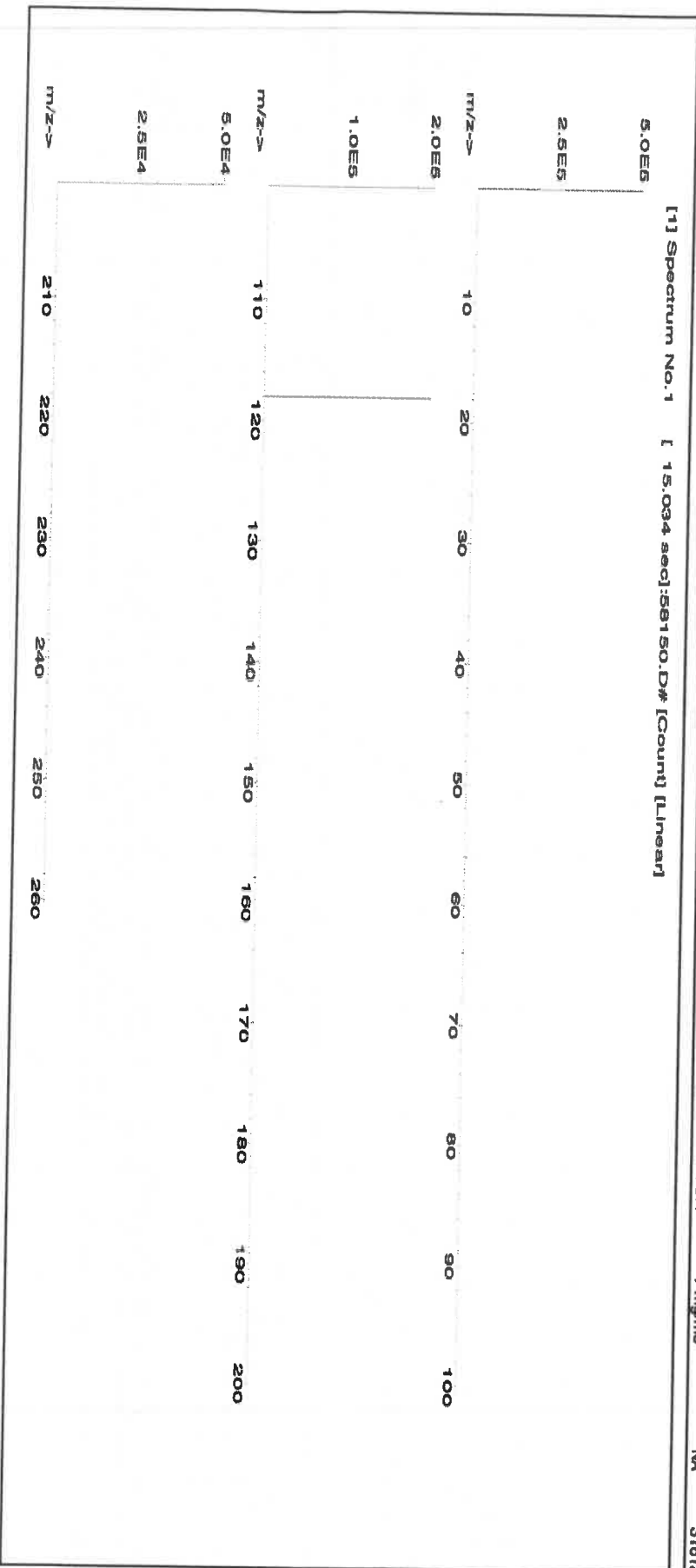
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan
	071123
Reviewed By:	Pedro L. Rentas
	071123

SDS Information														NIST				
Compound		Lot		Nominal		Purity		Uncertainty		Assay		Target			Actual		Expanded	
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	(%)	(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# [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	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.
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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: 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)

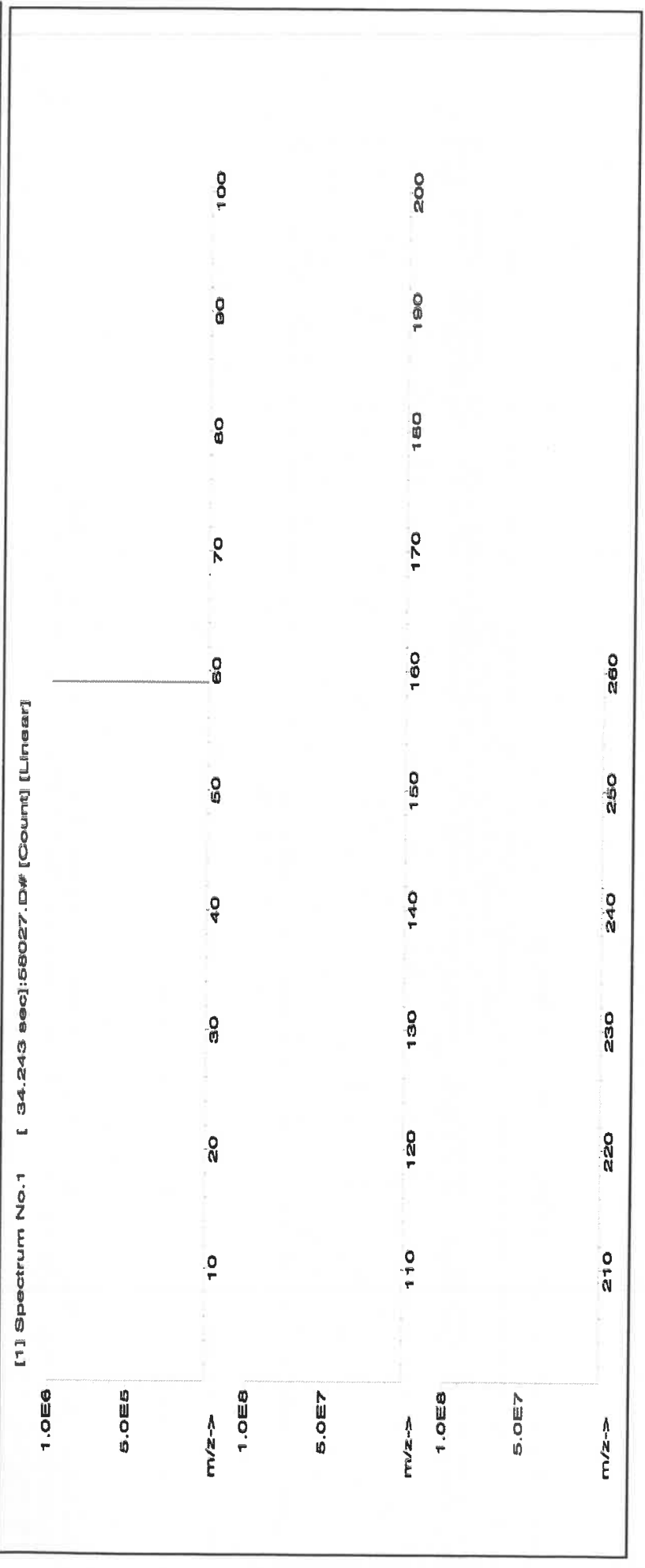
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

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	<0.02	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:

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CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57033
111323
Arsenic (As)

Lot #
Solvent:

24002546
Nitric Acid

2.0%

80.0

Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):

111326
Ambient (20 °C)
1000

NIST Test Number:
Volume shown below was diluted to (mL):

6UTB
4000.0

5E-05
Balance Uncertainty
0.06
Flask Uncertainty

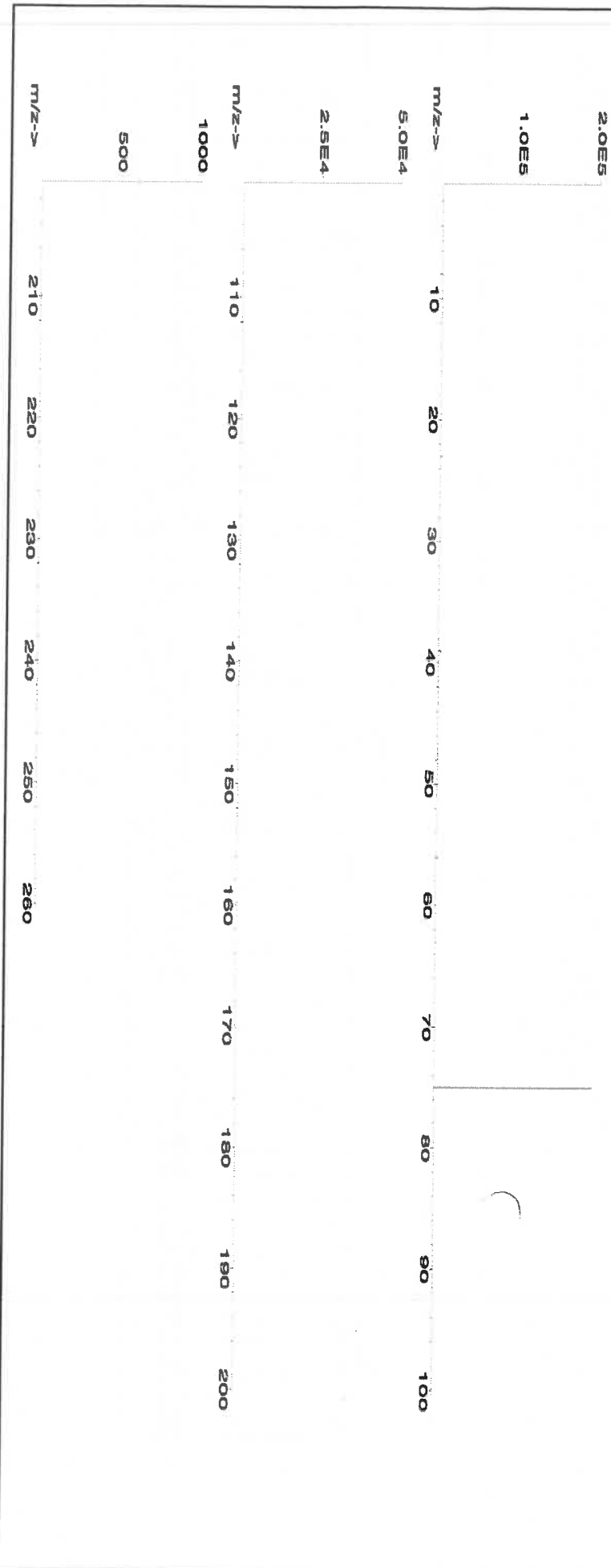
Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rendas	111323

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

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-rat 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	<0.02	Yb	<0.02
Bc	<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	Su	<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:

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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: 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

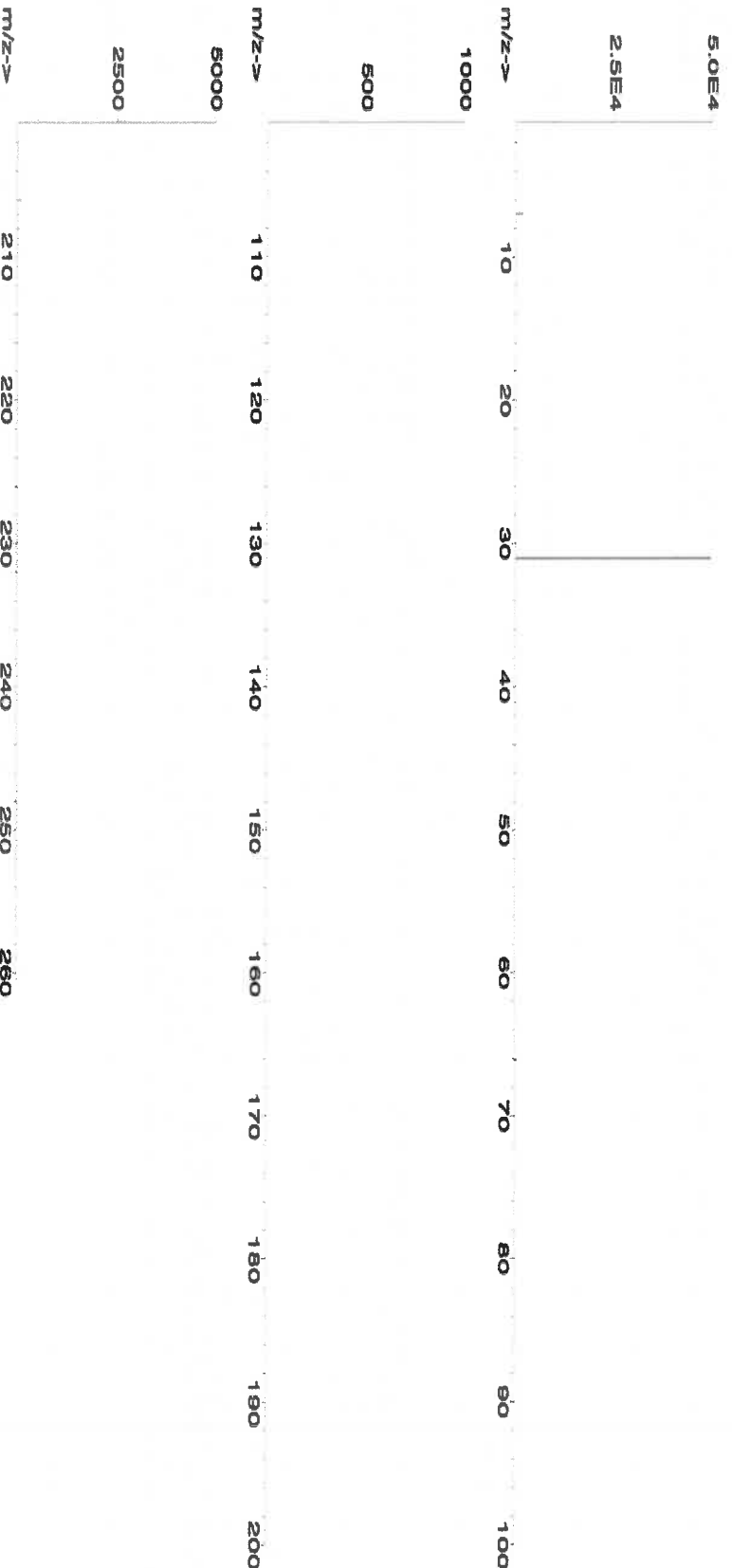
Formulated By: Lawrence Barry	041723
Reviewed By: Pedro L. Rentas	041723

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. 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 (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	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
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

SDS Information

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

or-rel 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).
- * 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: **57116**
Lot Number: **071123**
Description: **Sulfur (S)**

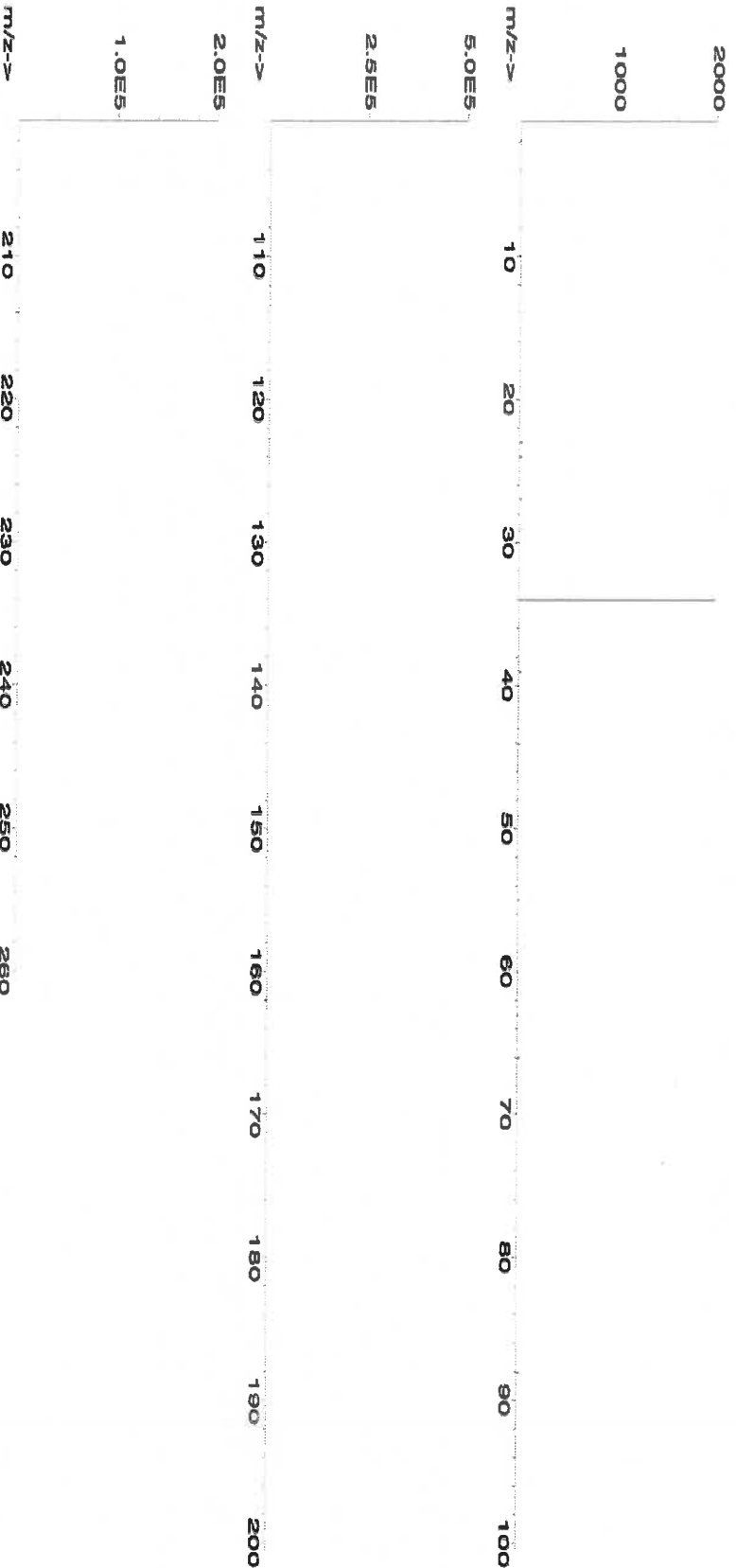
Lot #
Solvent: 071123
ASTM Type 1 Water

Formulated By:	Lawrence Barry
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	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	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: 58030
Lot Number: 111623
Description: Zinc (Zn)

Solvent: 24002546 Nitric Acid

2% 60.0 (mL) Nitric Acid

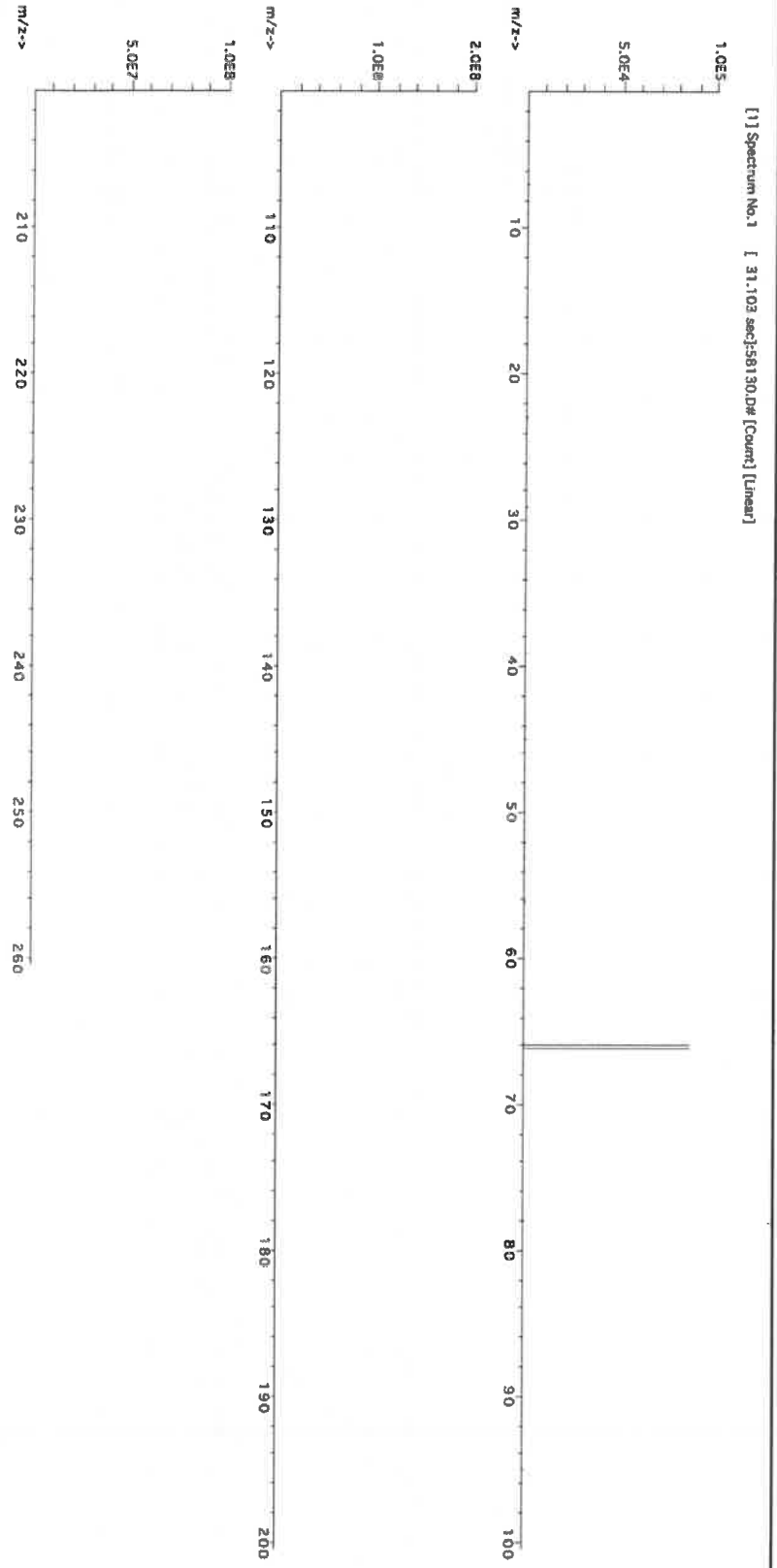
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Reintas
111623	

Weight shown below was diluted to (mL): 3000.4 0.06 Balance Uncertainty Flask Uncertainty

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)	LDSO	NIST SRM

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/m³ or-rat 1190mg/kg 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: **57015**
Lot Number: **091123**
Description: **Phosphorous (P)**

Solvent: **24002546 Nitric Acid**

Lot #

R: 02109124 M5820

Expiration Date: **091126**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6LJB**

2% 40.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): **2000.02** 5E-05 Balance Uncertainty
0.058 Flask Uncertainty

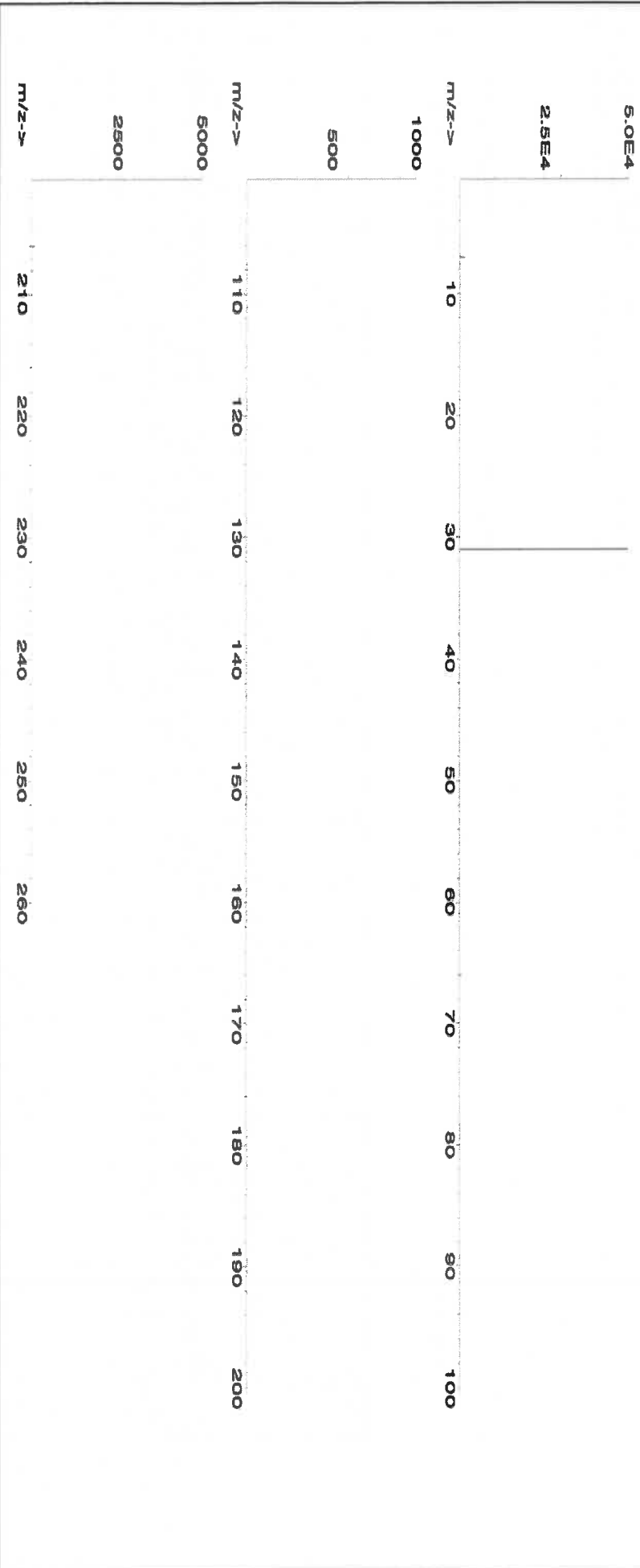
Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

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. 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.
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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: **57028**

Lot Number: **041124**

Description: **Nickel (NI)**

Solvent: **24002546 Nitric Acid**

Lot #

MS961 R-1 6/11/24

Expiration Date:

041127

2% 5.0 Nitric Acid (mL)

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

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

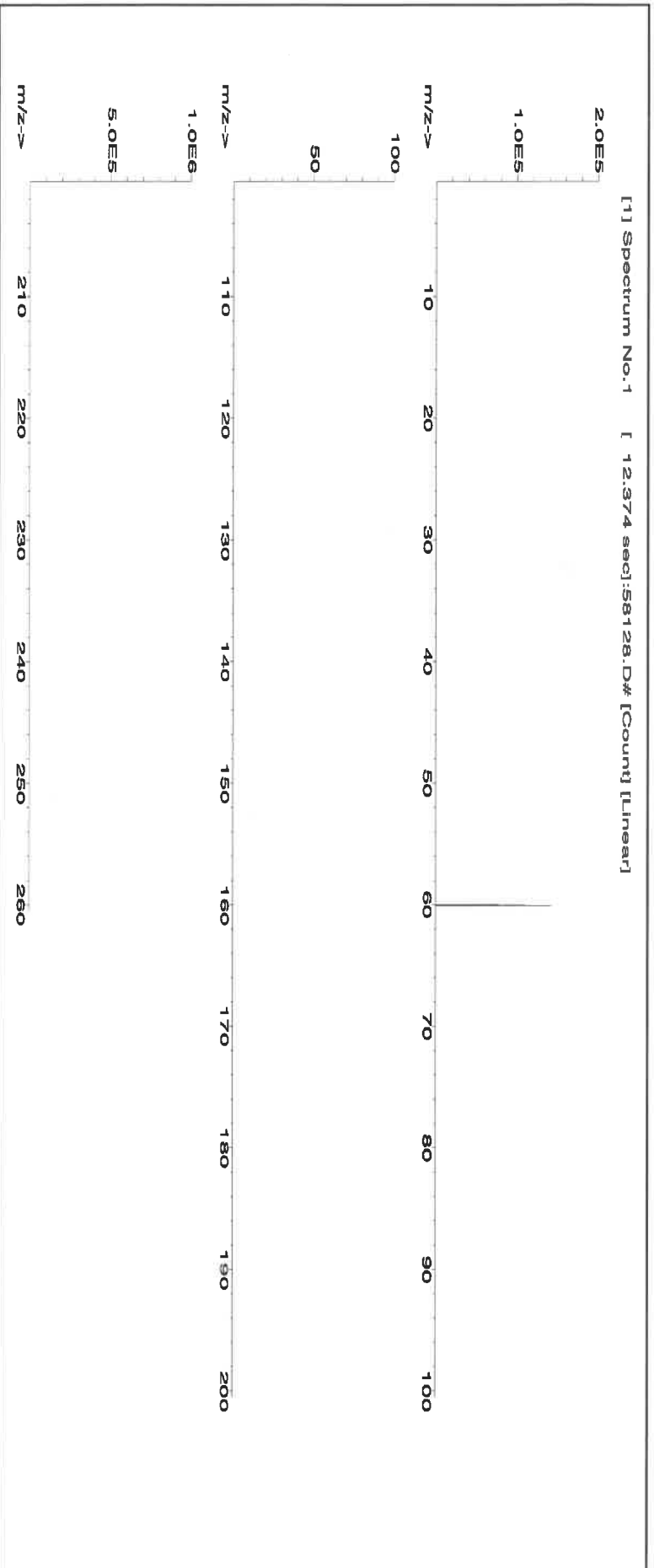
SDS Information

Compound

Compound	Lot	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

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

[1] Spectrum No.1 [12.374 sec]:58128.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	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	<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	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	<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:

MS962 **R10614124**

Lot # **24002546** Solvent: **Nitric Acid**

Part Number: **57034**
Lot Number: **060624**
Description: **Selenium (Se)**

2.0% 40.0 (mL) Nitric Acid

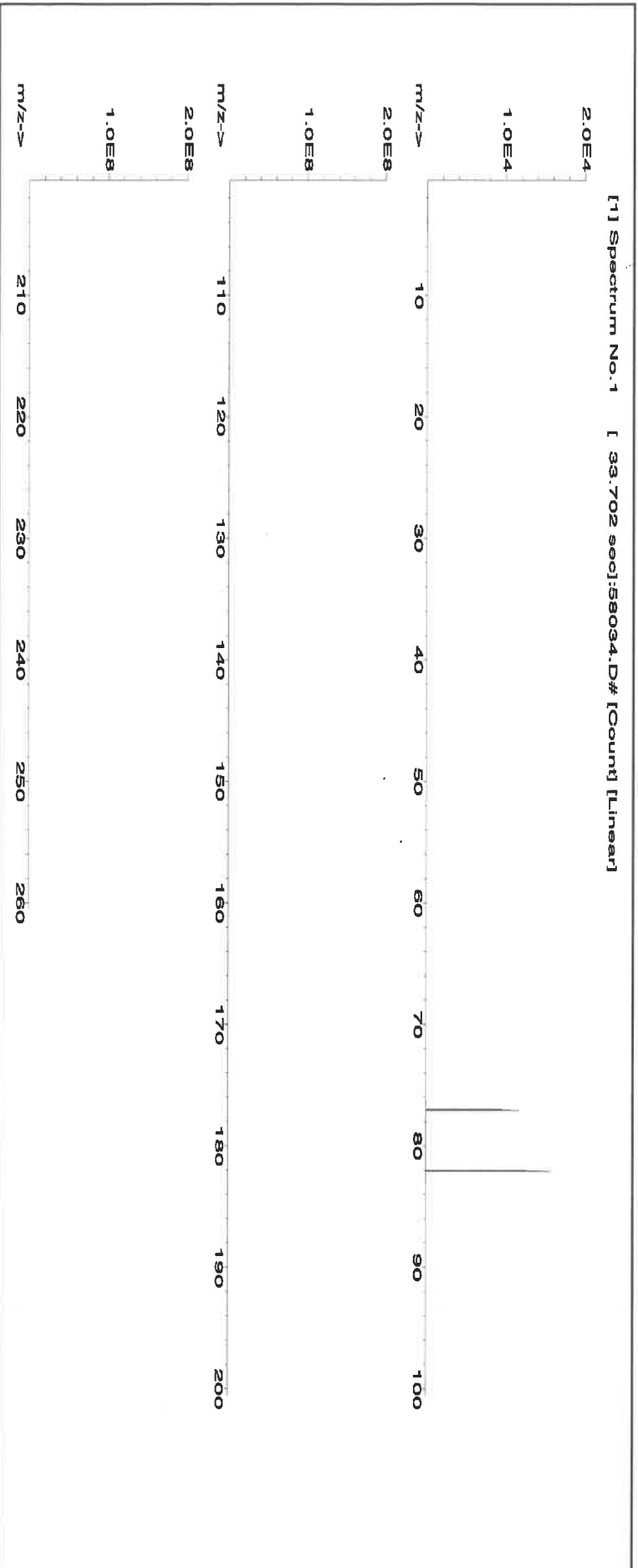
Expiration Date: **060627**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Volume shown below was diluted to (mL): **2000.07**
SE-05 Balance Uncertainty **0.100** Flask Uncertainty

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rantas	060624

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	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)	LDSO	NIST SRM

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





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.
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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).

Certificate of Analysis

M5976, M5977

R: 02/22/24

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: 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

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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 Lot#: T1 Metal

Starting Material Purity: 2094

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

CRM/RM Expanded Uncertainty (U) = $U_{CRM} = k \cdot (U_{CRM}^2 + U_{lab}^2 + U_{hom}^2 + U_{stb}^2)^{1/2}$

k = coverage factor = 2

$U_{CRM}^2 = (2/(n-1)) \cdot (U_{CRM}^2 + U_{lab}^2 + U_{hom}^2 + U_{stb}^2)$ where U_{CRM} is the error from each characterization method

U_{lab} = bottle to bottle homogeneity standard uncertainty

U_{hom} = long term stability standard uncertainty (storage)

U_{stb} = 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 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

- 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 - 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); K₂SiO₃ - no KF if silica not present); Organic Matrices (Dry ash at 450°C 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	
ICP-OES 334.941 nm	0.0038 / 0.00028 µg/mL	
ICP-OES 336.121 nm	0.0053 / 0.00034 µg/mL	
HF Note: This standard should not be prepared or stored in glass.		
W, Mo, Co	1	
Nb, Ta, Cr, U	1	
Ce, Ar, Ni	1	
Ru	1	
(where X = Zr, Mo,		
14N17N2, 36Ar12C,		
48Ca, 196X=2		
14N16O18O,		
32S16O, 32S14N,		
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

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)

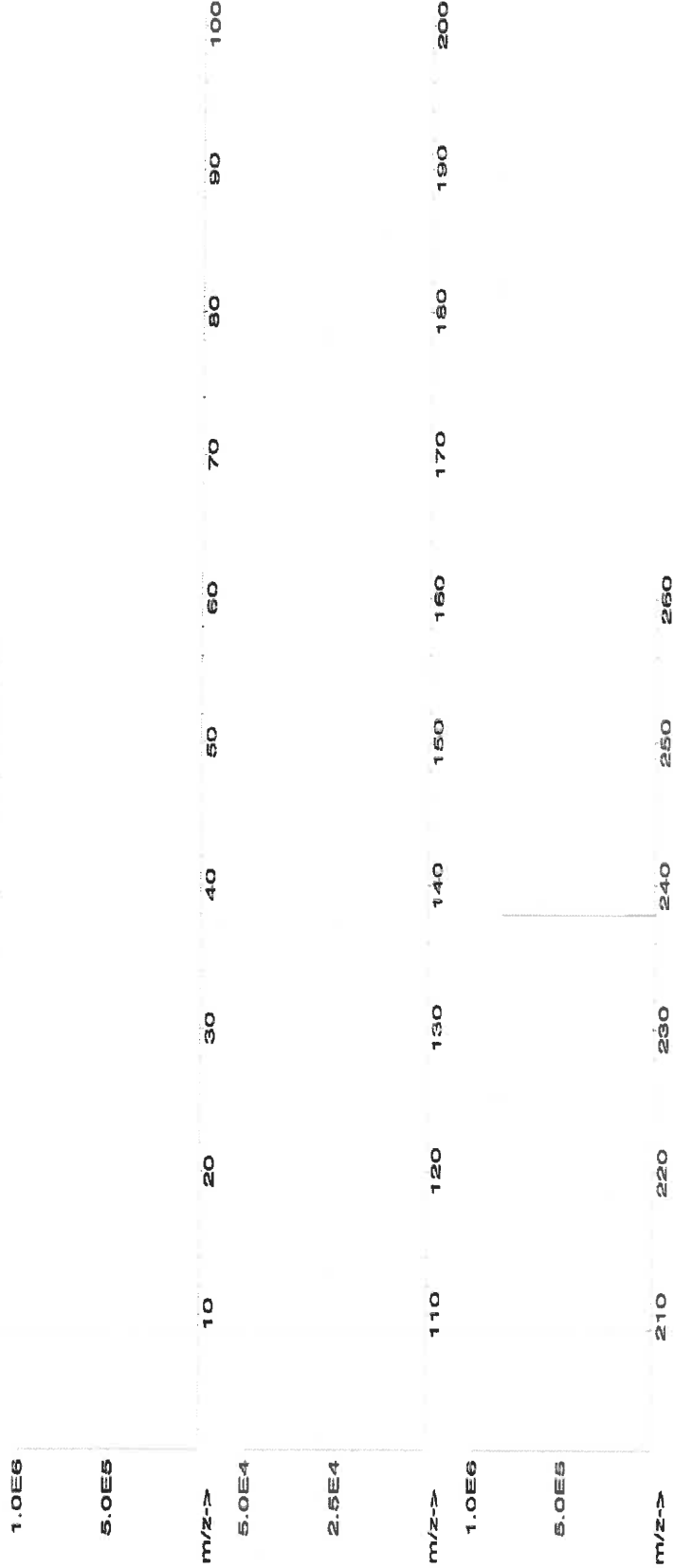
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas

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 [23.254 sec]:57092.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	<0.02	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	<0.02	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	<0.02	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:

[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)

Final
Conc. (µg/mL)

Nominal
Conc. (µg/mL)

Initial
Vol. (mL)

Dilution
Factor

Part
Number

Lot
Number

Compound

1. Zirconyl chloride octahydrate (Zr)

NIST
SRM

LD50

CAS# OSHA PEL (TWA)

13520-92-8

2.2

1000.0

10000.3

1000

0.084

200.0

0.1000

58140

070621

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

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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



8/19/24, M6055

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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, $X_{CRM/RM}$, 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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

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_{ts} = 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{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

 **avantorsm**



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

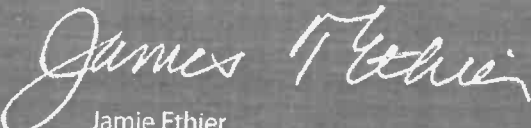
Product Information (not specifications):

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

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) Nitric Acid

Expiration Date: 11/13/25
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

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 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	Tm	<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	Sn	<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	Ti	<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			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: **58025**
Lot Number: **101124**
Description: **Manganese (Mn)**

R-71113128

Lot #: **24002546**
Solvent: **Nitric Acid**

Expiration Date: **101127**

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

Weight shown below was diluted to (mL): **4000.2**

0.10 Flask Uncertainty

2% **80.0** **Nitric Acid**
(mL)

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	Pedro L. Renteria
	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

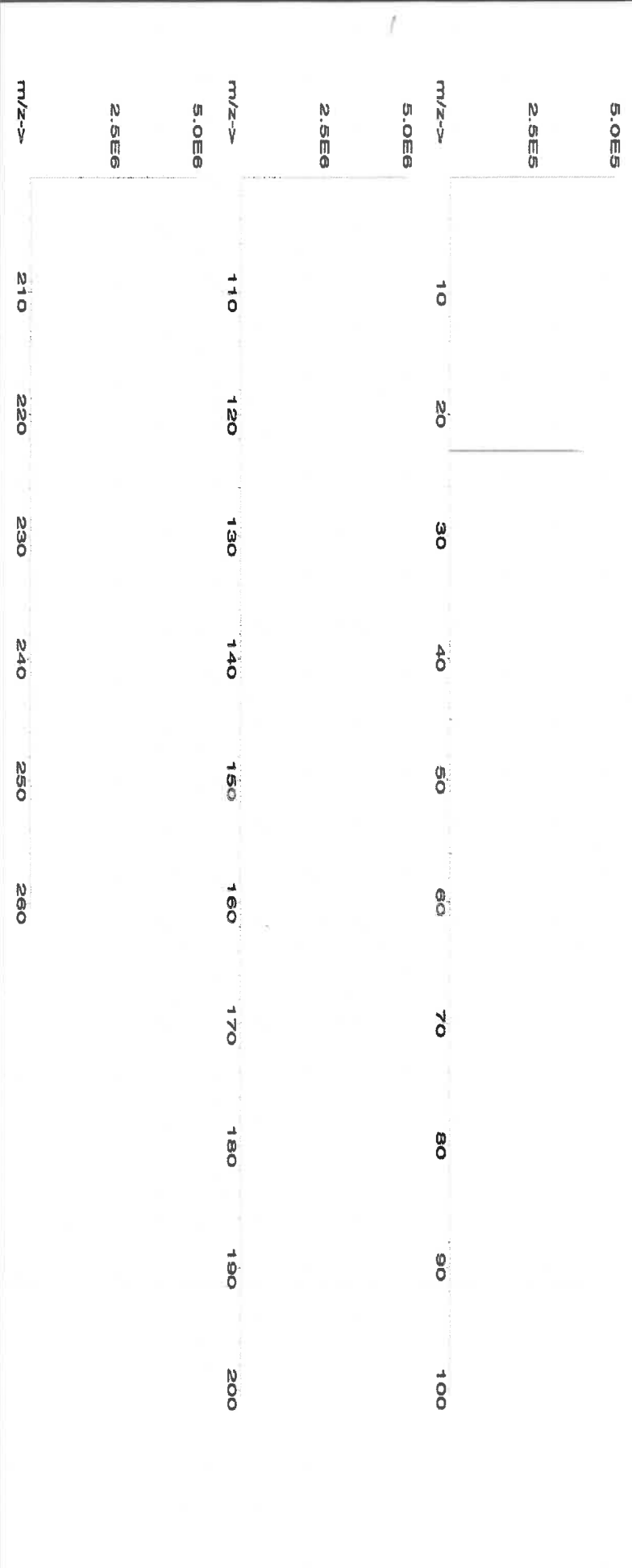
Expanded

SDS Information

Compound	Lot	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

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	Te	<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	Th	<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	Tm	<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	Sn	<0.02	Zn	<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	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: 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
 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.



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

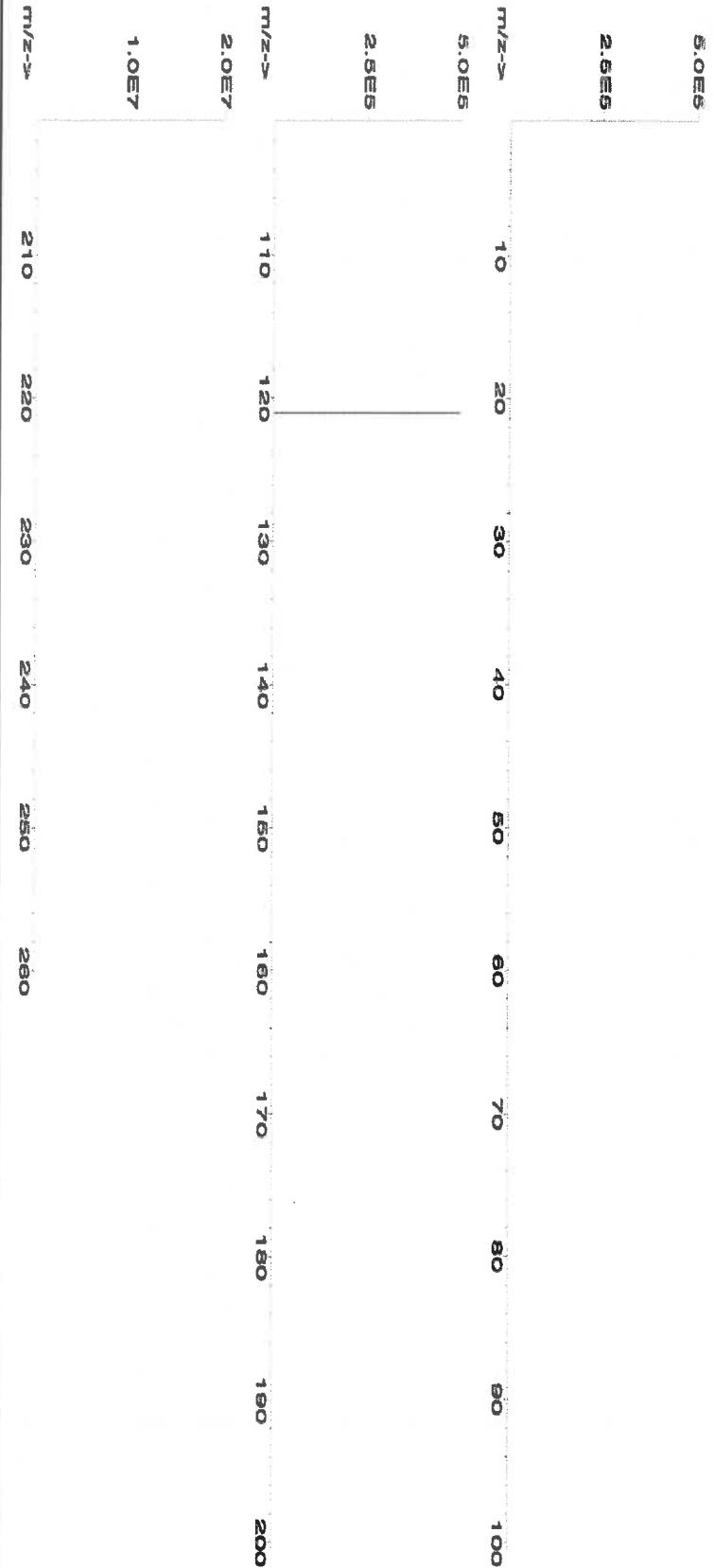
Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Renteria	120523

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

[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



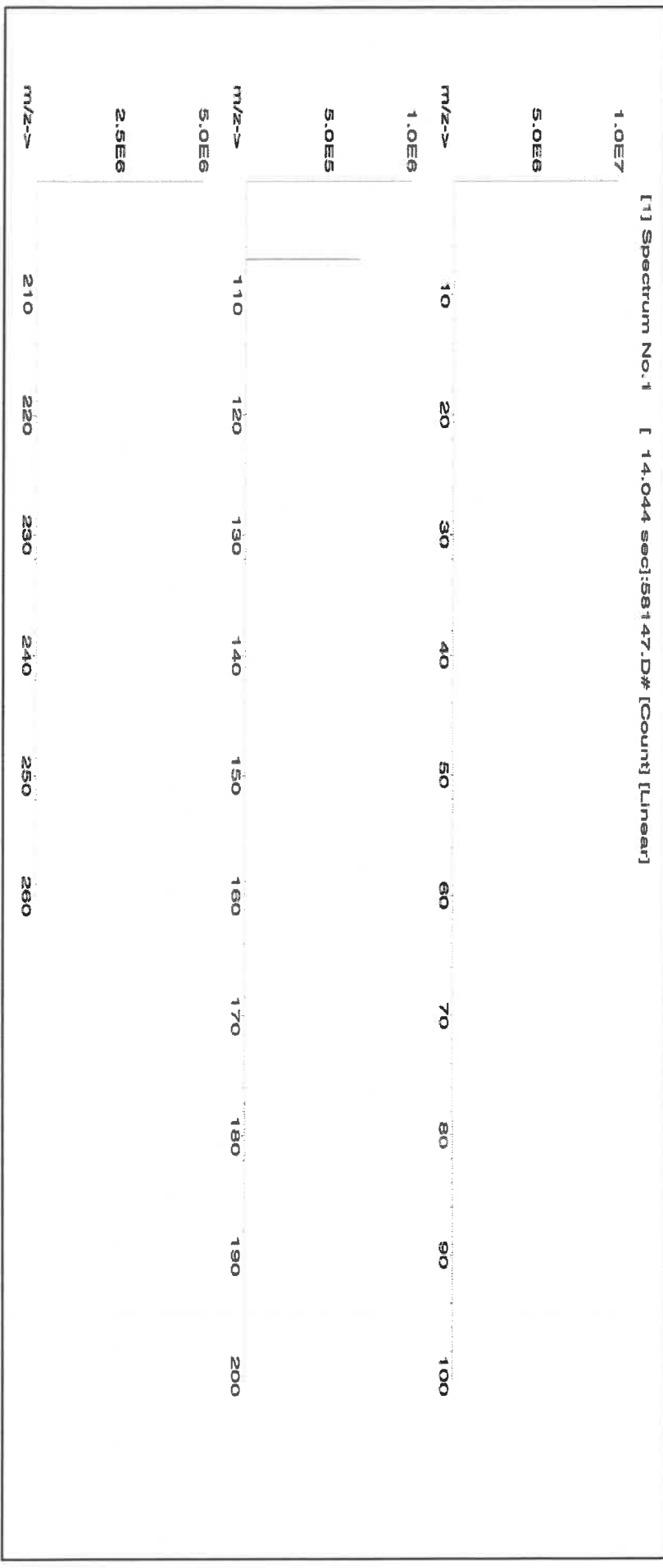
CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)
Solvent: 24002546 Nitric Acid
Lot #

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	99.9996	0.10	63.7	6.27992	6.27998	1000.0
							2.0	7761-88-8	10 µg/mL
									NA
									3151





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).

R: 8/5/24

M6019

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: Single Analyte Custom Grade Solution
Catalog Number: CGSR1
Lot Number: U2-SR730227
Matrix: 0.1% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Strontium
Starting Material: SrCO₃
Starting Material Lot#: M2-2192
Starting Material Purity: 99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 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 Traceable to 3153a Lot Number: K2-SR650985
Assay Method #2	1001 ± 3 µg/mL EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	1001 ± 2 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2

- 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:

$$w_i = (1/u_{char\ i})^2 / (\sum (1/u_{char\ i})^2)$$

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

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_{ts} = 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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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	<	0.001980	M	Eu	<	0.000495	O	Na	0.000200	M	Se	<	0.013862	O	Zn	0.000143	
O	Al	0.000370	O	Fe	0.000410	M	Nb	<	0.000495	i	Si	<			M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495			
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990			
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<				
M	Ba	0.006486	M	Hf	<	0.000495	i	P	<			M	Ta	<	0.000495			
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495			
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724			
O	Ca	0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd	0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495			
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495			
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485			
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980			
M	Cu	0.000099	O	Mg	0.000064	i	S	<				M	W	<	0.003960			
M	Dy	<	0.000495	O	Mn	0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495			

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 Sr(H₂O)₆+2

Chemical Compatibility - Soluble in HCl, and HNO₃. Avoid H₂SO₄, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO₃ / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO₃); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute 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 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

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 03, 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

- March 03, 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





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

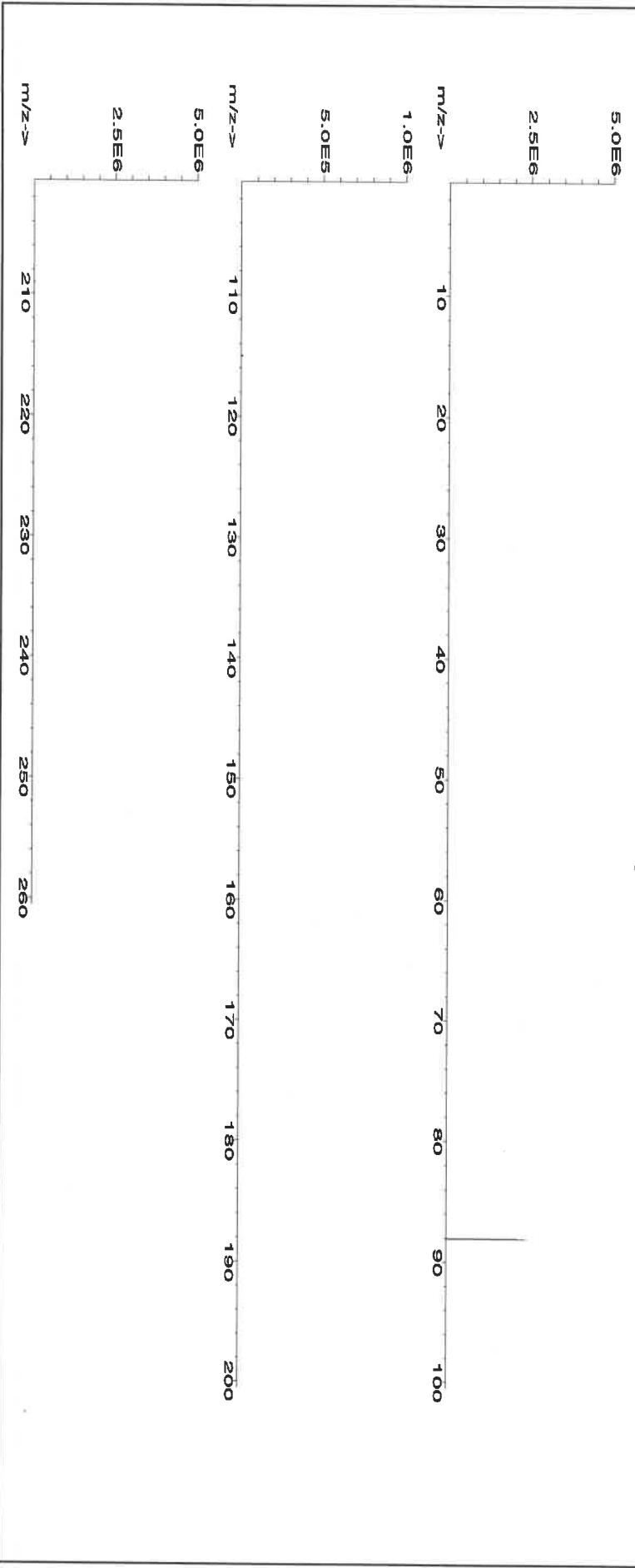
SDS Information

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

1.	Strontium nitrate (Sr)	IN017	SF2022018A1	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

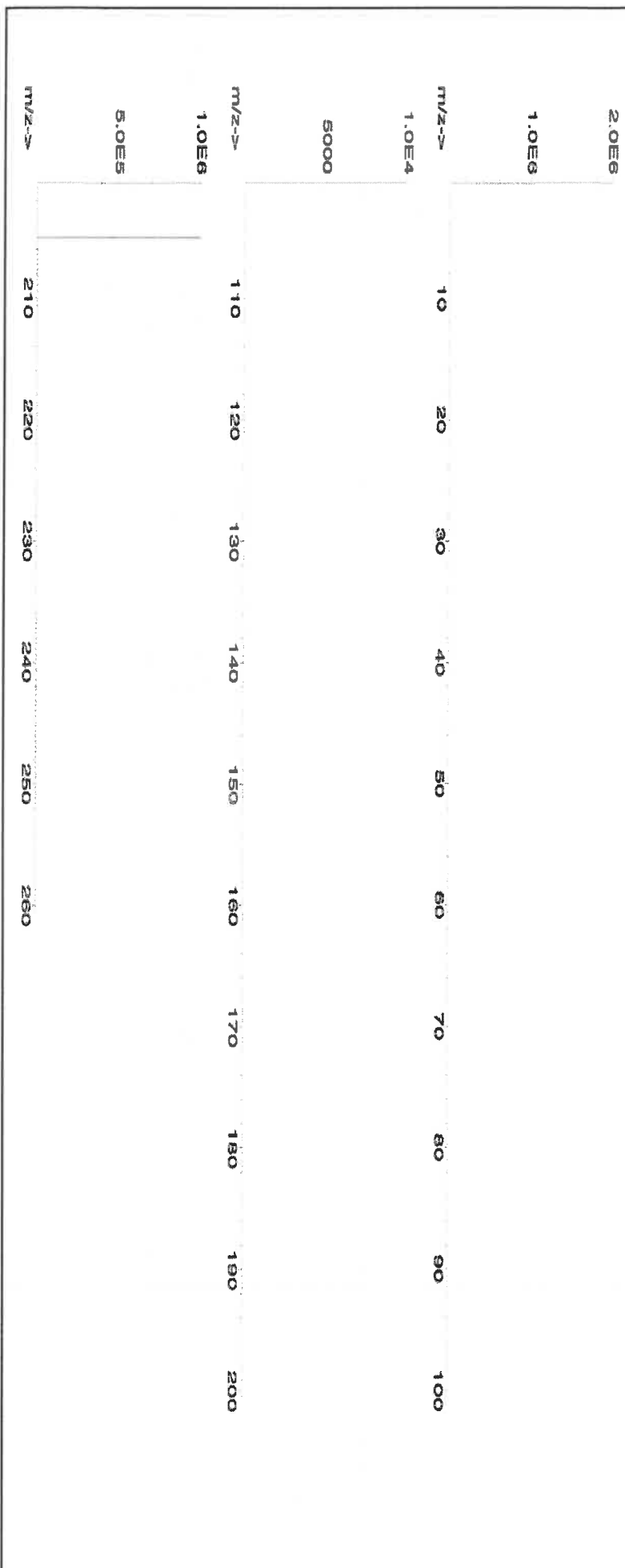
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	062724
Reviewed By:	<i>Pedro L. Renias</i>
	Pedro L. Renias
	062724

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 orl-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:

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

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**

<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
Reviewed By:	Pedro L. Rantas
	062424

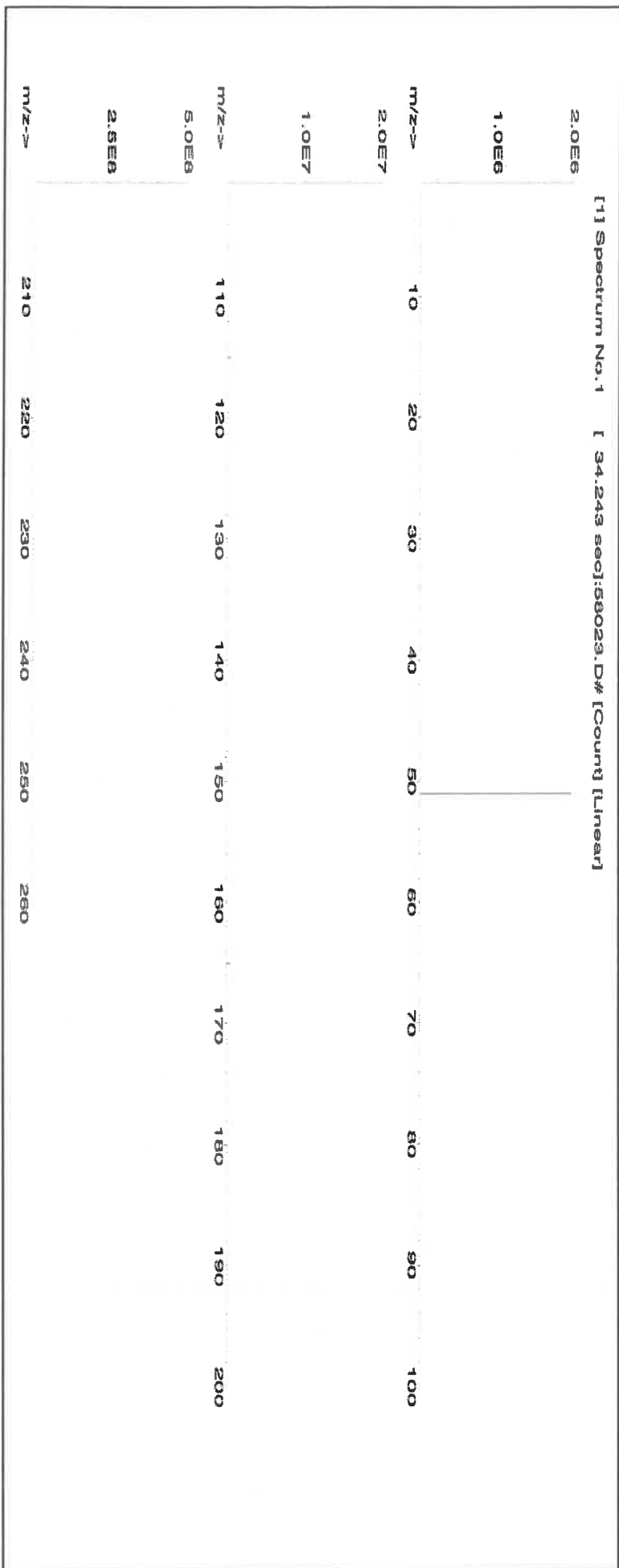
Expiration Date: **062427**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**

Volume shown below was diluted to (mL): **2000.3**
5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Volume shown below was diluted to (mL): **2000.3**

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]



SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : MC0B00

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 01/22/2025 **Time :** 10:45 **Temp :** 96 °C

End Digest Date: 01/22/2025 **Time :** 12:50 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: S/R

Supervisor Signature: [Signature]

Temp : 1. 96°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP84099
Spike Sol. B	0.50	MP84074
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	1.00	MP84041
1:1 HCL	050	MP83499
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#55 : 96

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/22/25 13:50	S/R met. div.	[Signature] Metals Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166174BL	PBW174	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	18
PB166174BS	LCS174	<2	50	50	Colorless	Colorless	Clear	Clear	MP84099	19
Q1089-01	MC0B00	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	20
Q1089-02	MC0B01	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	21
Q1089-03	MC0B01D	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	22
Q1089-04	MC0B01S	<2	50	50	Colorless	Colorless	Clear	Clear	MP84074	23
Q1089-05	MC0B06	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	24
Q1089-06	MC0B07	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	25
Q1089-07	MC0AL9	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	26
Q1089-08	MC0AM2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	27
Q1089-09	MC0AZ9	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	28
Q1089-10	MC0B02	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	29
Q1089-11	MC0B04	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	30
Q1089-12	MC0B09	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	31
Q1089-13	MC0B10	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	32
Q1089-14	MC0B11	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	33

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM
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	MP84099		
Chk Standard	MP84057,MP84056		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	01/24/25 08:56		Jaswal	OK
2	S00	S0	CAL1	01/24/25 09:47		Jaswal	OK
3	S02	S02	CAL3	01/24/25 09:53		Jaswal	OK
4	S03	S03	CAL4	01/24/25 09:57		Jaswal	OK
5	S04	S04	CAL5	01/24/25 10:00		Jaswal	OK
6	S05	S05	CAL6	01/24/25 10:03		Jaswal	OK
7	S06	S06	CAL7	01/24/25 10:06		Jaswal	OK
8	S07	S07	CAL8	01/24/25 10:09		Jaswal	OK
9	S08	S08	CAL9	01/24/25 10:11		Jaswal	OK
10	ICV001	ICV001	ICV	01/24/25 10:23	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	01/24/25 10:30	Inst. paused for review	Jaswal	OK
12	ICSA001	ICSA001	ICSA	01/24/25 10:33		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	01/24/25 10:36		Jaswal	OK
14	CCV001	CCV001	CCV	01/24/25 10:41		Jaswal	OK
15	CCB001	CCB001	CCB	01/24/25 10:45		Jaswal	OK
16	P4368-01	LOD-MDL-SOIL-01-Q	SAM	01/24/25 11:01	Not Use	Jaswal	Not Ok
17	P4368-02	LOQ-SOIL-02-QT4-20	SAM	01/24/25 11:13	Not Use	Jaswal	Not Ok
18	P4368-16	LLOQ-SOIL-QT4-2024	SAM	01/24/25 11:17	Not Use	Jaswal	Not Ok

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

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	MP84099
Chk Standard	MP84057,MP84056

19	P4368-07	LOD-MDL-WATER-01	SAM	01/24/25 11:20	Not Use	Jaswal	Not Ok
20	P4368-08	LOQ-WATER-02-QT4	SAM	01/24/25 11:26	Not Use	Jaswal	Not Ok
21	P4368-17	LLOQ-WATER-QT4-2	SAM	01/24/25 11:29	Not Use	Jaswal	Not Ok
22	P4368-10	LOD-MDL-WATER-04	SAM	01/24/25 11:35	Not Use	Jaswal	Not Ok
23	P4368-11	LOQ-WATER-05-QT4	SAM	01/24/25 11:38	Not Use	Jaswal	Not Ok
24	CCV002	CCV002	CCV	01/24/25 11:49		Jaswal	OK
25	CCB002	CCB002	CCB	01/24/25 11:52		Jaswal	OK
26	PBW	PBW	SAM	01/24/25 11:59	Not Use	Jaswal	Not Ok
27	P4476-03	XA102	SAM	01/24/25 12:02	Not Use	Jaswal	Not Ok
28	P4476-01	XA100	SAM	01/24/25 12:06	Not Use	Jaswal	Not Ok
29	LCSW	LCSW	SAM	01/24/25 12:22	Not Use	Jaswal	Not Ok
30	PBS	PBS	LCS	01/24/25 12:26	Not Use	Jaswal	Not Ok
31	LCSS	LCSS	SAM	01/24/25 12:29	Not Use	Jaswal	Not Ok
32	PBW 6020	PBW 6020	SAM	01/24/25 12:33	Not Use	Jaswal	Not Ok
33	LCSW 6020	LCSW 6020	SAM	01/24/25 12:36	Not Use	Jaswal	Not Ok
34	PBS 6020	PBS 6020	SAM	01/24/25 12:42	Not Use	Jaswal	Not Ok
35	LCSS 6020	LCSS 6020	SAM	01/24/25 12:46	Not Use	Jaswal	Not Ok
36	CCV003	CCV003	CCV	01/24/25 12:49		Jaswal	OK
37	CCB003	CCB003	CCB	01/24/25 12:56	Inst. paused for review	Jaswal	OK
38	PBW 200.8	PBW 200.8	SAM	01/24/25 12:59	Not Use	Jaswal	Not Ok

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM
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	MP84099		
Chk Standard	MP84057,MP84056		

39	LCSW 200.8	LCSW 200.8	SAM	01/24/25 13:03	Not Use	Jaswal	Not Ok
40	CCV004	CCV004	CCV	01/24/25 13:05		Jaswal	OK
41	CCB004	CCB004	CCB	01/24/25 13:19	Inst. paused for review	Jaswal	OK
42	PB166174BL	PBW174	MB	01/24/25 13:22		Jaswal	OK
43	PB166174BS	LCS174	LCS	01/24/25 13:25		Jaswal	OK
44	Q1089-01	MC0B00	SAM	01/24/25 13:29		Jaswal	OK
45	Q1089-02	MC0B01	SAM	01/24/25 13:32		Jaswal	OK
46	Q1089-03	MC0B01D	DUP	01/24/25 13:35		Jaswal	OK
47	Q1089-02L	MC0B01L	SD	01/24/25 13:39		Jaswal	OK
48	Q1089-04	MC0B01S	MS	01/24/25 13:42		Jaswal	OK
49	Q1089-05	MC0B06	SAM	01/24/25 13:45		Jaswal	OK
50	Q1089-06	MC0B07	SAM	01/24/25 13:49		Jaswal	OK
51	Q1089-07	MC0AL9	SAM	01/24/25 13:52		Jaswal	OK
52	Q1089-08	MC0AM2	SAM	01/24/25 13:55		Jaswal	OK
53	Q1089-09	MC0AZ9	SAM	01/24/25 13:59		Jaswal	OK
54	Q1089-10	MC0B02	SAM	01/24/25 14:02		Jaswal	OK
55	Q1089-11	MC0B04	SAM	01/24/25 14:05		Jaswal	OK
56	Q1089-12	MC0B09	SAM	01/24/25 14:08		Jaswal	OK
57	Q1089-13	MC0B10	SAM	01/24/25 14:12		Jaswal	OK
58	Q1089-14	MC0B11	SAM	01/24/25 14:15		Jaswal	OK

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM

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	MP84099
Chk Standard	MP84057,MP84056

59	PB166148BL	PBS148	MB	01/24/25 14:18		Jaswal	OK
60	PB166148BS	LCS148	LCS	01/24/25 14:24		Jaswal	OK
61	Q1102-01	MH2H28	SAM	01/24/25 14:27		Jaswal	OK
62	CCV005	CCV005	CCV	01/24/25 14:31		Jaswal	OK
63	CCB005	CCB005	CCB	01/24/25 14:37	Inst. paused for review	Jaswal	OK
64	Q1102-02	MH2H29	SAM	01/24/25 14:40		Jaswal	OK
65	Q1102-03	MH2H30	SAM	01/24/25 14:44		Jaswal	OK
66	Q1102-04	MH2H30D	DUP	01/24/25 14:47		Jaswal	OK
67	Q1102-03L	MH2H30L	SD	01/24/25 14:50		Jaswal	OK
68	Q1102-05	MH2H30S	MS	01/24/25 14:53	MS Fail For As,Cu	Jaswal	OK
69	Q1102-06	MH2H31	SAM	01/24/25 14:57		Jaswal	OK
70	PB166154BL	PBS154	MB	01/24/25 15:03		Jaswal	OK
71	PB166154BS	LCS154	LCS	01/24/25 15:33		Jaswal	OK
72	Q1105-01	YE8G3	SAM	01/24/25 15:36		Jaswal	OK
73	Q1105-02	YE8G5	SAM	01/24/25 15:39		Jaswal	OK
74	Q1105-03	YE8G6	SAM	01/24/25 15:42	Sr High	Jaswal	Dilution
75	Q1105-04	YE8G6D	DUP	01/24/25 15:46	Sr High	Jaswal	Dilution
76	Q1105-03L	YE8G6L	SD	01/24/25 15:49	Sr High	Jaswal	Dilution
77	Q1105-05	YE8G6S	MS	01/24/25 15:52	Sr High , MS Fail For Mn	Jaswal	Dilution
78	Q1105-06	YE8H0	SAM	01/24/25 15:56		Jaswal	OK

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM
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	MP84099		
Chk Standard	MP84057,MP84056		

79	Q1105-07	YE8H1	SAM	01/24/25 15:59		Jaswal	OK
80	Q1105-08	YE8H2	SAM	01/24/25 16:02	As High	Jaswal	Dilution
81	Q1105-09	YE8H3	SAM	01/24/25 16:05		Jaswal	OK
82	Q1105-10	YE8H4	SAM	01/24/25 16:09		Jaswal	OK
83	CCV006	CCV006	CCV	01/24/25 16:12		Jaswal	OK
84	CCB006	CCB006	CCB	01/24/25 16:18	Inst. paused for review	Jaswal	OK
85	Q1105-11	YE8H5	SAM	01/24/25 16:22		Jaswal	OK
86	Q1105-12	YE8H6	SAM	01/24/25 16:25		Jaswal	OK
87	Q1105-13	YE8E9	SAM	01/24/25 16:28		Jaswal	OK
88	Q1105-14	YE8F0	SAM	01/24/25 16:31		Jaswal	OK
89	Q1105-15	YE8F1	SAM	01/24/25 16:35		Jaswal	OK
90	Q1105-16	YE8F2	SAM	01/24/25 16:38		Jaswal	OK
91	Q1105-17	YE8F3	SAM	01/24/25 16:41		Jaswal	OK
92	Q1105-18	YE8F4	SAM	01/24/25 16:45		Jaswal	OK
93	Q1105-19	YE8F6	SAM	01/24/25 16:48		Jaswal	OK
94	Q1105-20	YE8G0	SAM	01/24/25 16:51		Jaswal	OK
95	Q1105-21	YE8G1	SAM	01/24/25 16:54		Jaswal	OK
96	Q1105-22	YE8G2	SAM	01/24/25 16:58		Jaswal	OK
97	PB166195BL	PBS195	MB	01/24/25 17:01		Jaswal	OK
98	PB166195BS	LCS195	LCS	01/24/25 17:11		Jaswal	OK

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM
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	MP84099		
Chk Standard	MP84057,MP84056		

99	Q1135-01	YE8F5	SAM	01/24/25 17:14		Jaswal	OK
100	Q1135-02	YE8F7	SAM	01/24/25 17:17	Sr High	Jaswal	Dilution
101	Q1135-03	YE8F7D	DUP	01/24/25 17:21	Sr High	Jaswal	Dilution
102	Q1135-02L	YE8F7L	SD	01/24/25 17:24	Sr High	Jaswal	Dilution
103	Q1135-04	YE8F7S	MS	01/24/25 17:27	Sr High,MS Fail For MO(4.33ppb)	Jaswal	Dilution
104	Q1135-05	YE8F8	SAM	01/24/25 17:30		Jaswal	OK
105	Q1135-06	YE8F9	SAM	01/24/25 17:34		Jaswal	OK
106	Q1135-07	YE8H9	SAM	01/24/25 17:37		Jaswal	OK
107	Q1135-08	YE8J0	SAM	01/24/25 17:40		Jaswal	OK
108	Q1135-10	YE8J1	SAM	01/24/25 17:43		Jaswal	OK
109	Q1135-11	YE8E3	SAM	01/24/25 17:47		Jaswal	OK
110	Q1135-12	YE8E4	SAM	01/24/25 17:50		Jaswal	OK
111	CCV007	CCV007	CCV	01/24/25 17:58		Jaswal	OK
112	CCB007	CCB007	CCB	01/24/25 18:01		Jaswal	OK
113	Q1135-13	YE8E5	SAM	01/24/25 18:04		Jaswal	OK
114	Q1135-14	YE8E6	SAM	01/24/25 18:08		Jaswal	OK
115	Q1135-15	YE8E7	SAM	01/24/25 18:12		Jaswal	OK
116	Q1135-16	YE8E8	SAM	01/24/25 18:16		Jaswal	OK
117	Q1135-17	YE8D2	SAM	01/24/25 18:19		Jaswal	OK

Instrument ID: P8

Daily Analysis Runlog For Sequence/QC Batch ID # LB134440

Review By	Sarabjit Jaswal	Review On	1/28/2025 10:53:54 AM
Supervise By	Mohan Bera	Supervise On	1/28/2025 4:22:54 PM
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	MP84099		
Chk Standard	MP84057,MP84056		

118	Q1135-18	YE8D4	SAM	01/24/25 18:23		Jaswal	OK
119	Q1135-19	YE8C3	SAM	01/24/25 18:26		Jaswal	OK
120	Q1135-21	YE8D0	SAM	01/24/25 18:29		Jaswal	OK
121	Q1135-22	YE8D5	SAM	01/24/25 18:33		Jaswal	OK
122	Q1105-03DL	YE8G6	SAM	01/24/25 18:36	5X For Sr	Jaswal	Confirms
123	Q1105-04DL	YE8G6D	DUP	01/24/25 18:39	5X For Sr	Jaswal	Confirms
124	Q1105-03LDL	YE8G6L	SD	01/24/25 18:43	5X For Sr	Jaswal	Confirms
125	Q1105-05DL	YE8G6S	MS	01/24/25 18:46	5X For Sr	Jaswal	Confirms
126	Q1105-08DL	YE8H2	SAM	01/24/25 18:49	2X For As	Jaswal	Confirms
127	Q1135-02DL	YE8F7	SAM	01/24/25 18:53	5X For Sr	Jaswal	Confirms
128	Q1135-03DL	YE8F7D	DUP	01/24/25 18:56	5X For Sr	Jaswal	Confirms
129	Q1135-02LDL	YE8F7L	SD	01/24/25 18:59	5X For Sr	Jaswal	Confirms
130	Q1135-04DL	YE8F7S	MS	01/24/25 19:03	5X For Sr	Jaswal	Confirms
131	Q1102-03A	MH2H30A	PS	01/24/25 19:06	PS For As,Cu(0.0027ml mp84220,0.0023ml m5751-10ml sample)	Jaswal	OK
132	Q1105-03A	YE8G6A	PS	01/24/25 19:09	PS For Mn(0.005ml m6128-10ml sample)	Jaswal	OK
133	CCV008	CCV008	CCV	01/24/25 19:19		Jaswal	OK
134	CCB008	CCB008	CCB	01/24/25 19:22		Jaswal	OK