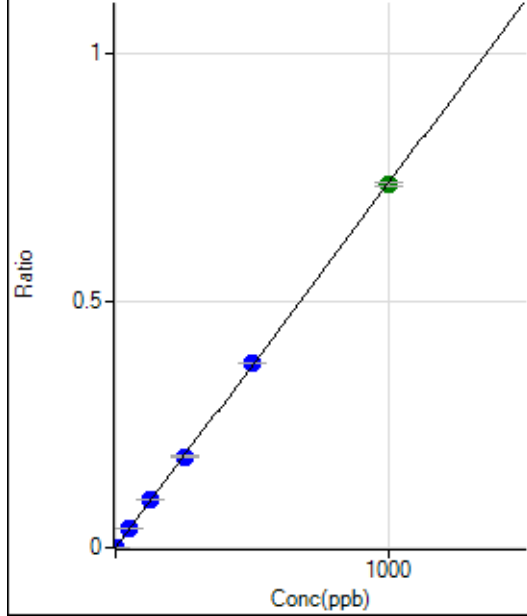


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030823MS.b\
Analysis File: P8030823MS.batch.bin
DA Date-Time: 2023-03-08 13:19:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-08 08:18:21
2	006CALS.d	S02	2023-03-08 08:24:32
3	008CALS.d	S03	2023-03-08 08:30:40
4	009CALS.d	S04	2023-03-08 08:33:41
5	010CALS.d	S05	2023-03-08 08:36:42
6	011CALS.d	S06	2023-03-08 08:39:40
7	012CALS.d	S07	2023-03-08 08:42:41
8	013CALS.d	S08	2023-03-08 08:45:40

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.50	0.0000	P	19.4
2	☐	1.000	1.025	1851.97	0.0008	P	2.2
3	☐	50.000	52.473	93089.25	0.0387	P	2.3
4	☐	125.000	130.916	230431.21	0.0966	P	0.6
5	☐	250.000	250.371	445870.85	0.1847	P	0.8
6	☐	500.000	507.283	875163.68	0.3742	P	0.5
7	☐	1000.000	995.403	1679058.94	0.7343	A	1.2
8	☐			387.88	0.0002	P	8.5

$$y = 7.3768\text{E-}004 * x + 1.1661\text{E-}005$$

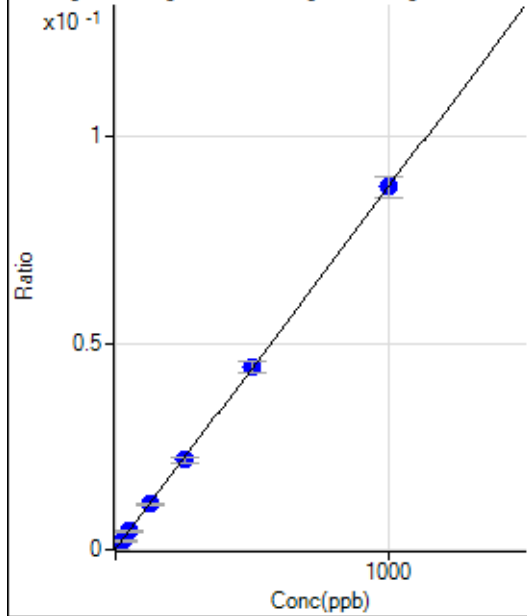
$$R = 0.9999$$

$$DL = 0.009191$$

$$BEC = 0.01581$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.64	0.0001	P	1.1
2	☐	25.000	23.555	5169.91	0.0021	P	5.8
3	☐	50.000	50.368	10811.87	0.0045	P	7.2
4	☐	125.000	124.649	26282.24	0.0110	P	6.7
5	☐	250.000	246.129	52340.85	0.0217	P	8.2
6	☐	500.000	502.352	103320.90	0.0442	P	6.7
7	☐	1000.000	999.853	200909.01	0.0879	P	5.6
8	☐			19173.40	0.0088	P	9.9

$$y = 8.7804\text{E-}005 * x + 7.4933\text{E-}005$$

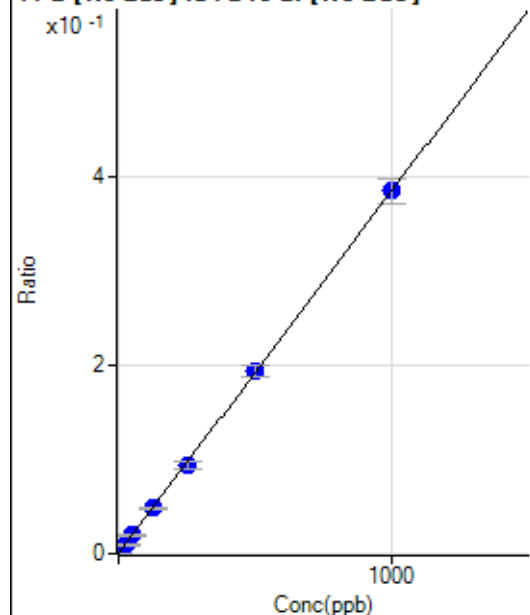
$$R = 1.0000$$

$$DL = 0.02731$$

$$BEC = 0.8534$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	763.20	0.0003	P	2.3
2	☐	25.000	23.662	22753.81	0.0094	P	6.6
3	☐	50.000	50.509	47529.21	0.0198	P	5.6
4	☐	125.000	124.244	114834.70	0.0482	P	7.8
5	☐	250.000	244.233	227692.90	0.0943	P	7.7
6	☐	500.000	501.044	451777.01	0.1932	P	6.3
7	☐	1000.000	1001.022	881791.18	0.3857	P	6.7
8	☐			85286.59	0.0391	P	9.1

$$y = 3.8494\text{E-}004 * x + 3.2377\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.05784$$

$$BEC = 0.8411$$

Weight: <None>

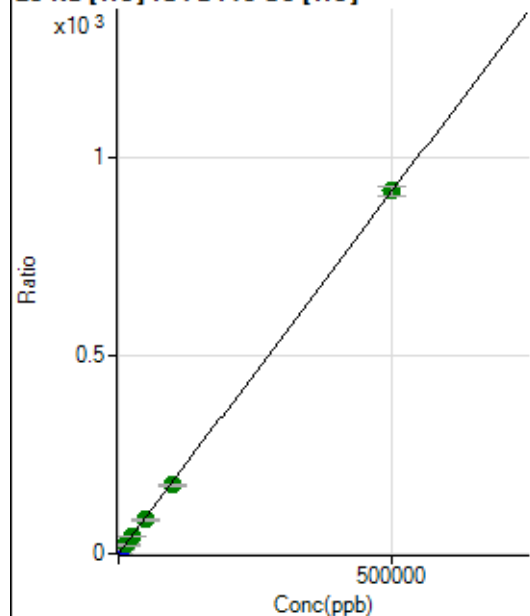
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3137491.61		A	1.3
2	☐			3107503.24		A	0.9
3	☐			3281026.37		A	1.4
4	☐			3271793.95		A	1.8
5	☐			3275058.54		A	2.5
6	☐			3341203.76		A	0.8
7	☐			3530895.13		A	2.6
8	☐			3277889.18		A	3.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38492.50		P	1.6
2	☐			38119.30		P	2.7
3	☐			40216.97		P	2.7
4	☐			40890.86		P	1.6
5	☐			41085.76		P	1.2
6	☐			41977.20		P	1.0
7	☐			46574.24		P	1.3
8	☐			45286.84		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15049.76	0.1452	P	0.9
2	☐	500.000	444.196	97394.61	0.9573	P	1.7
3	☐	5000.000	4762.834	906808.81	8.8527	P	1.4
4	☐	12500.000	12046.917	2195557.34	22.1697	A	5.7
5	☐	25000.000	23193.401	4275596.97	42.5480	A	2.3
6	☐	50000.000	46657.947	8422893.42	85.4466	A	1.0
7	☐	100000.00	94567.793	16757443.43	173.0368	A	0.7
8	☐	500000.00	501524.73	92577793.04	917.0476	A	2.8

$$y = 0.0018 * x + 0.1452$$

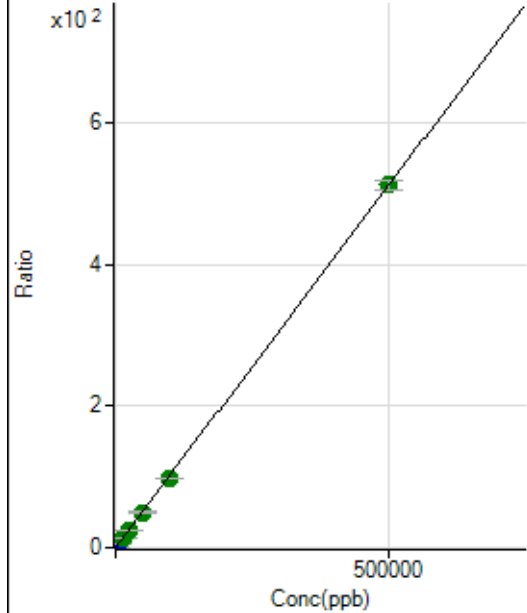
$$R = 0.9999$$

$$DL = 2.055$$

$$BEC = 79.41$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	208.34	0.0020	P	6.8
2	☐	500.000	451.104	47235.71	0.4642	P	2.3
3	☐	5000.000	4826.506	506752.11	4.9477	P	0.8
4	☐	12500.000	12529.788	1271631.99	12.8411	A	5.1
5	☐	25000.000	24051.585	2476820.50	24.6473	A	2.7
6	☐	50000.000	48944.219	4944131.23	50.1544	A	3.2
7	☐	100000.00	96130.026	9535302.39	98.5051	A	1.6
8	☐	500000.00	500928.03	51819362.27	513.2958	A	2.7

$$y = 0.0010 * x + 0.0020$$

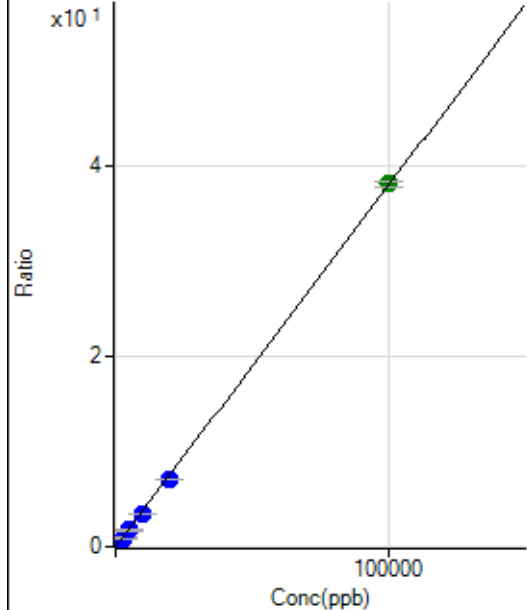
$$R = 1.0000$$

$$DL = 0.402$$

$$BEC = 1.961$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	85.41	0.0008	P	13.2
2	☐	20.000	16.789	731.60	0.0072	P	5.4
3	☐	1000.000	907.657	35342.43	0.3450	P	2.0
4	☐	2500.000	2363.340	88906.87	0.8971	P	3.2
5	☐	5000.000	4572.981	174352.21	1.7350	P	2.8
6	☐	10000.000	9138.118	341698.03	3.4663	P	2.7
7	☐	20000.000	18561.381	681503.75	7.0398	P	1.9
8	☐	100000.00	100399.60	3843699.44	38.0752	A	1.5

$$y = 3.7923E-004 * x + 8.2389E-004$$

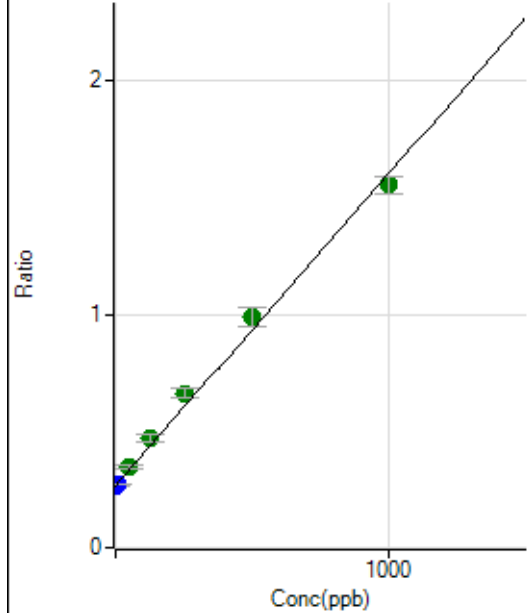
$$R = 0.9999$$

$$DL = 0.86$$

$$BEC = 2.173$$

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	787652.82	0.2664	P	1.9
2	☐	10.000	3.442	829989.40	0.2710	P	0.6
3	☐	50.000	59.368	1032768.44	0.3457	A	3.7
4	☐	125.000	153.323	1416346.08	0.4712	A	7.6
5	☐	250.000	295.105	1984652.26	0.6605	A	6.6
6	☐	500.000	541.129	2959629.43	0.9890	A	8.2
7	☐	1000.000	964.216	4537764.73	1.5539	A	4.7
8	☐			1064696.00	0.3552	A	4.4

$$y = 0.0013 * x + 0.2664$$

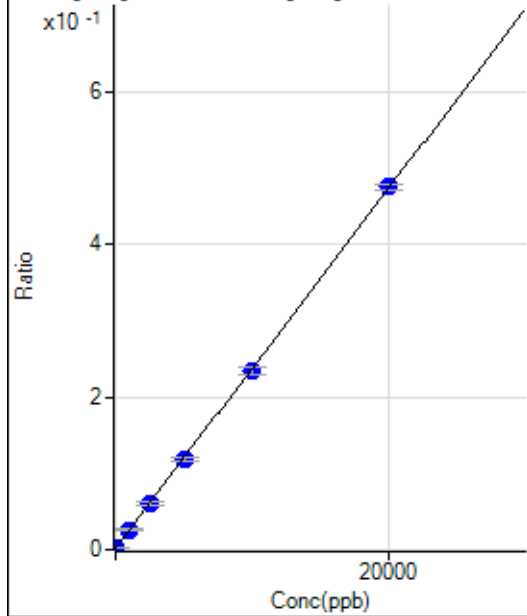
$$R = 0.9971$$

$$DL = 11.55$$

$$BEC = 199.5$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-12.288	188.90	0.0018	P	14.6
2	☐	0.000	12.288	244.45	0.0024	P	10.8
3	☐	1000.000	1029.277	2703.11	0.0264	P	3.5
4	☐	2500.000	2477.721	5995.84	0.0605	P	5.3
5	☐	5000.000	4922.241	11877.36	0.1182	P	4.1
6	☐	10000.000	9851.835	23113.34	0.2345	P	3.6
7	☐	20000.000	20094.843	46099.07	0.4760	P	1.6
8	☐			202.79	0.0020	P	32.8

$$y = 2.3584E-005 * x + 0.0021$$

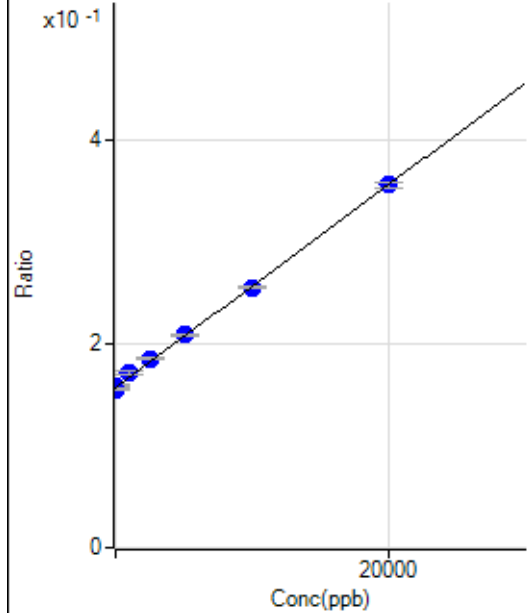
$$R = 0.9999$$

$$DL = 33.4$$

$$BEC = 89.58$$

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	200.527	470956.20	0.1593	P	1.9
2	☐	0.000	-200.527	475574.85	0.1553	P	1.2
3	☐	1000.000	1453.557	513090.09	0.1718	P	2.5
4	☐	2500.000	2840.283	558333.65	0.1856	P	1.4
5	☐	5000.000	5171.432	627318.02	0.2088	P	1.5
6	☐	10000.000	9833.190	764362.62	0.2553	P	0.9
7	☐	20000.000	19975.334	1040142.24	0.3564	P	1.7
8	☐			424848.86	0.1416	P	1.7

$$y = 9.9654\text{E-}006 * x + 0.1573$$

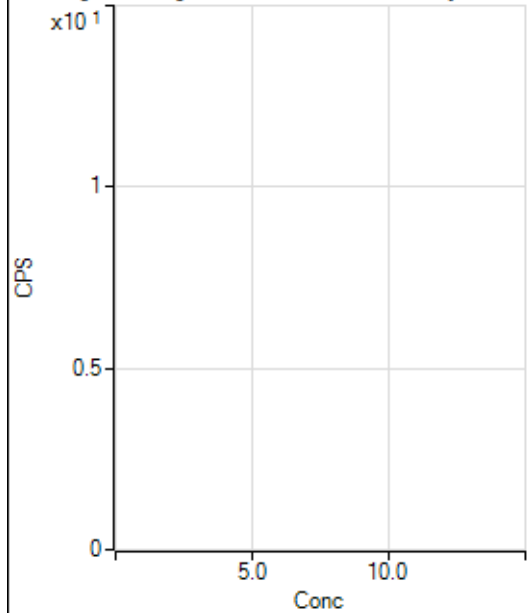
$$R = 0.9995$$

$$DL = 728.2$$

$$BEC = 1.578\text{E}+04$$

Weight: <None>

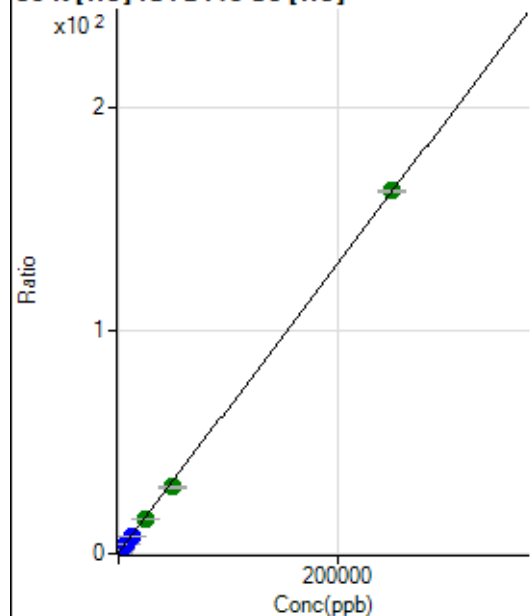
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			321223.32		P	2.1
2	☐			303116.92		P	1.6
3	☐			296282.42		P	2.4
4	☐			293175.30		P	2.4
5	☐			285921.17		P	1.7
6	☐			279764.80		P	2.2
7	☐			276961.29		P	1.4
8	☐			277423.99		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2050.21		P	4.3
2	☐			2055.76		P	6.3
3	☐			1927.96		P	2.9
4	☐			1983.53		P	7.0
5	☐			1750.16		P	8.3
6	☐			1969.63		P	6.6
7	☐			1800.16		P	2.3
8	☐			1850.16		P	9.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23333.48	0.2251	P	2.7
2	☐	500.000	426.219	51013.18	0.5014	P	1.6
3	☐	2500.000	2264.999	173435.64	1.6934	P	1.4
4	☐	6250.000	5863.859	398652.63	4.0264	P	5.8
5	☐	12500.000	11512.515	772566.44	7.6882	P	0.8
6	☐	25000.000	23115.333	1499315.96	15.2098	A	1.2
7	☐	50000.000	46139.575	2916185.57	30.1355	A	2.8
8	☐	250000.00	251022.07	16450844.64	162.9527	A	0.8

$$y = 6.4826E-004 * x + 0.2251$$

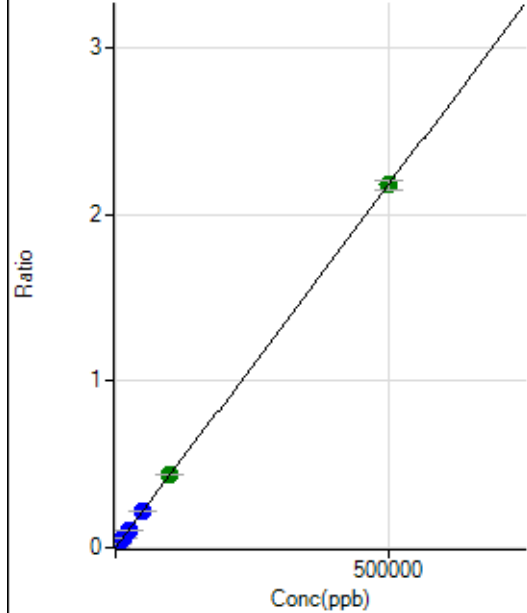
$$R = 0.9999$$

$$DL = 27.71$$

$$BEC = 347.2$$

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	94.99	0.0000	P	11.6
2	☐	500.000	441.720	5990.09	0.0020	P	1.3
3	☐	5000.000	5153.820	67127.06	0.0225	P	3.6
4	☐	12500.000	12777.304	167495.71	0.0557	P	1.4
5	☐	25000.000	24775.476	324254.71	0.1079	P	1.5
6	☐	50000.000	49775.873	649152.28	0.2168	P	1.1
7	☐	100000.00	100699.25	1280386.32	0.4386	A	1.1
8	☐	500000.00	499885.37	6528955.77	2.1771	A	2.9

$$y = 4.3551\text{E-}006 * x + 3.2103\text{E-}005$$

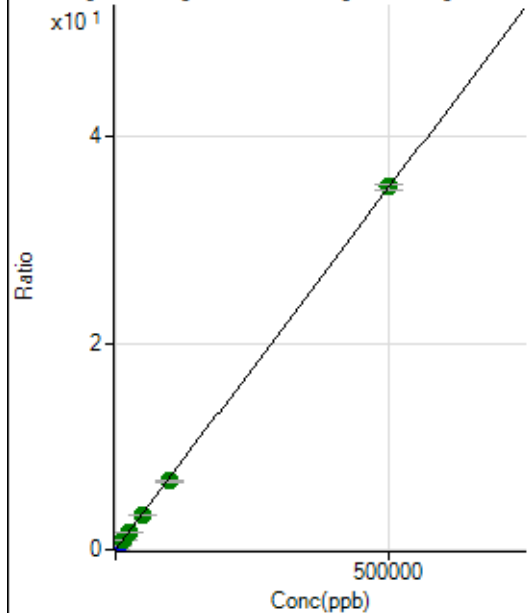
$$R = 1.0000$$

$$DL = 2.56$$

$$BEC = 7.371$$

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	16434.84	0.0056	P	0.8
2	☐	500.000	433.578	109983.12	0.0359	P	0.8
3	☐	5000.000	4965.533	1054975.92	0.3532	P	2.1
4	☐	12500.000	12015.954	2547315.99	0.8468	A	1.4
5	☐	25000.000	23322.156	4922283.26	1.6383	A	0.5
6	☐	50000.000	47110.689	9891945.40	3.3038	A	1.1
7	☐	100000.00	94350.414	19300384.57	6.6110	A	1.2
8	☐	500000.00	501515.25	105294640.8	35.1166	A	1.8

$$y = 7.0010\text{E-}005 * x + 0.0056$$

$$R = 0.9999$$

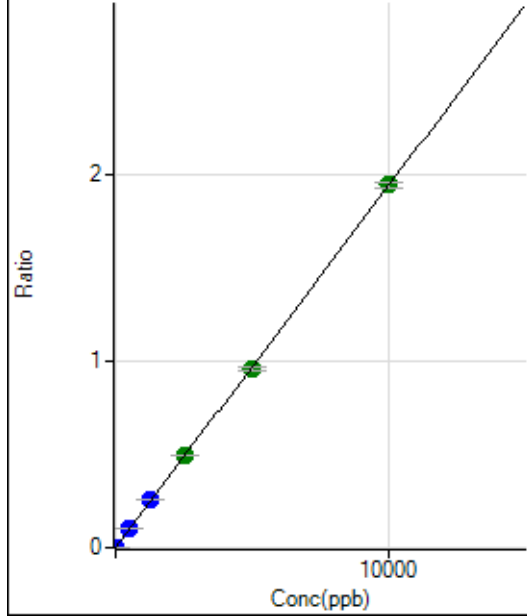
$$DL = 1.925$$

$$BEC = 79.4$$

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	150.00	0.0001	P	15.7
2	☐	5.000	4.770	2992.05	0.0010	P	6.1
3	☐	500.000	525.530	304909.83	0.1021	P	1.5
4	☐	1250.000	1317.518	769513.35	0.2558	P	1.8
5	☐	2500.000	2531.218	1476337.85	0.4914	A	0.5
6	☐	5000.000	4919.540	2859533.05	0.9551	A	2.0
7	☐	10000.000	10022.709	5679580.55	1.9457	A	1.4
8	☐			1686.25	0.0006	P	6.5

$$y = 1.9413\text{E-}004 * x + 5.0684\text{E-}005$$

$$R = 0.9999$$

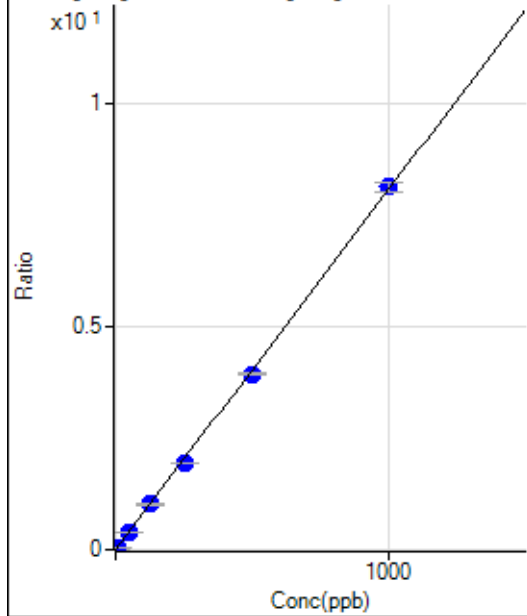
$$DL = 0.1233$$

$$BEC = 0.2611$$

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	7.78	0.0001	P	89.1
2	☐	5.000	4.520	3720.52	0.0366	P	2.8
3	☐	50.000	48.297	39944.58	0.3900	P	2.3
4	☐	125.000	125.589	100481.86	1.0140	P	3.6
5	☐	250.000	242.021	196342.71	1.9539	P	0.7
6	☐	500.000	487.993	388350.02	3.9397	P	0.6
7	☐	1000.000	1008.012	787753.57	8.1378	P	2.6
8	☐			306.67	0.0030	P	13.5

$$y = 0.0081 * x + 7.5133\text{E-}005$$

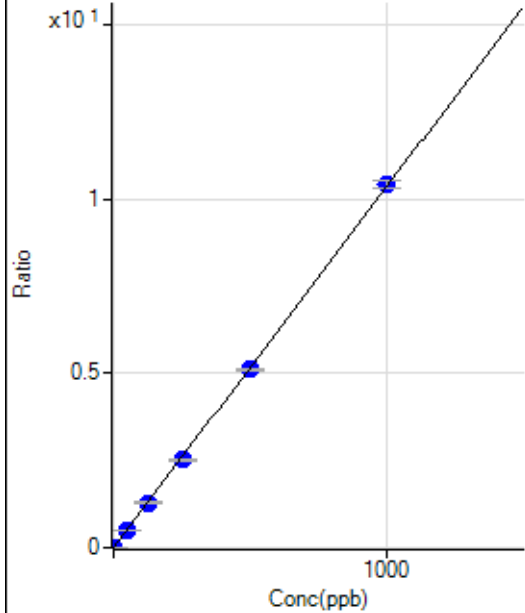
$$R = 0.9999$$

$$DL = 0.02488$$

$$BEC = 0.009307$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	504.46	0.0049	P	5.7
2	☐	2.000	1.843	2434.68	0.0239	P	1.8
3	☐	50.000	47.708	51048.64	0.4984	P	2.4
4	☐	125.000	124.432	128040.40	1.2920	P	3.4
5	☐	250.000	242.241	252277.94	2.5106	P	1.5
6	☐	500.000	493.456	503645.11	5.1092	P	1.3
7	☐	1000.000	1005.398	1007407.40	10.4048	P	2.3
8	☐			11586.99	0.1148	P	1.3

$$y = 0.0103 * x + 0.0049$$

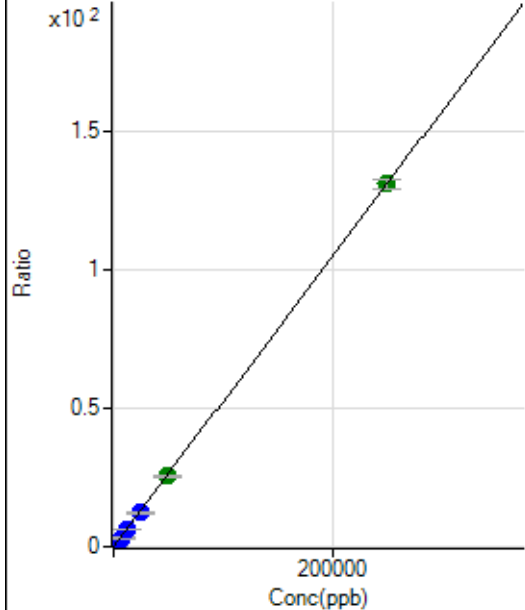
$$R = 0.9999$$

$$DL = 0.0811$$

$$BEC = 0.4703$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	455.57	0.0044	P	17.3
2	☐	50.000	46.217	2911.46	0.0286	P	5.5
3	☐	2500.000	2315.875	124753.78	1.2180	P	0.7
4	☐	6250.000	5937.311	308623.98	3.1158	P	4.9
5	☐	12500.000	11634.742	613119.23	6.1015	P	1.9
6	☐	25000.000	23320.236	1205105.36	12.2252	P	1.2
7	☐	50000.000	48936.566	2482370.63	25.6493	A	2.4
8	☐	250000.00	250433.58	13250353.54	131.2425	A	2.4

$$y = 5.2404E-004 * x + 0.0044$$

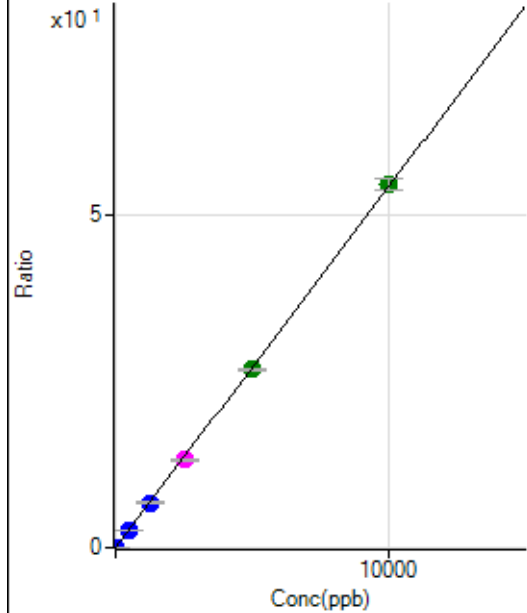
$$R = 1.0000$$

$$DL = 4.341$$

$$BEC = 8.387$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	34.44	0.0003	P	29.3
2	☐	1.000	0.973	572.24	0.0056	P	4.5
3	☐	500.000	486.685	271063.35	2.6462	P	1.7
4	☐	1250.000	1251.761	674511.67	6.8056	P	3.2
5	☐	2500.000	2439.106	1332521.40	13.2607	M	2.3
6	☐	5000.000	4928.139	2640962.72	26.7925	A	1.6
7	☐	10000.000	10051.600	5287512.87	54.6465	A	3.2
8	☐			6636.06	0.0657	P	3.7

$$y = 0.0054 * x + 3.3199E-004$$

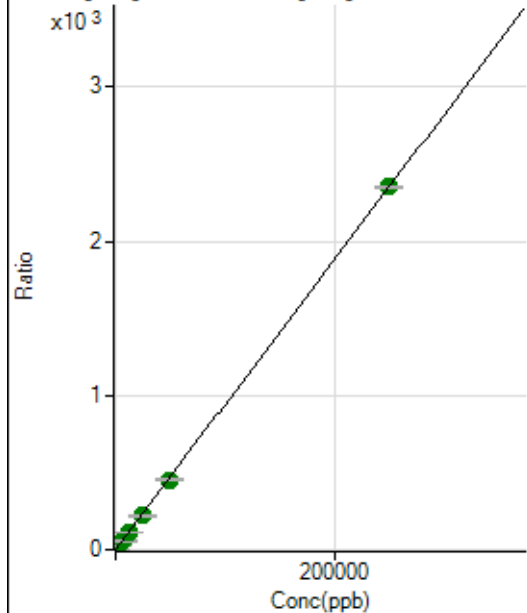
$$R = 0.9999$$

$$DL = 0.05364$$

$$BEC = 0.06107$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1918.68	0.0185	P	4.4
2	☐	50.000	43.804	43732.22	0.4298	P	0.9
3	☐	2500.000	2326.215	2239546.25	21.8613	A	2.9
4	☐	6250.000	5978.817	5561679.70	56.1587	A	5.3
5	☐	12500.000	11575.981	10924297.58	108.7152	A	1.1
6	☐	25000.000	23425.658	21684214.37	219.9819	A	1.7
7	☐	50000.000	48086.102	43703000.05	451.5396	A	2.3
8	☐	250000.00	250594.93	237558268.2	2,353.066	A	0.9

$$y = 0.0094 * x + 0.0185$$

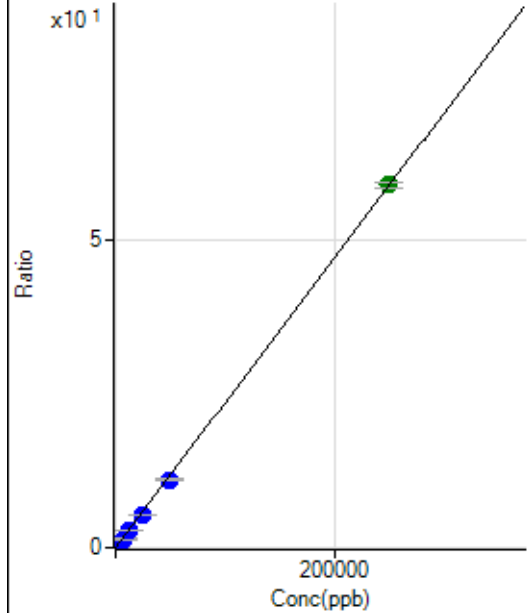
$$R = 1.0000$$

$$DL = 0.2608$$

$$BEC = 1.971$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0014	P	13.8
2	☐	50.000	47.005	1268.60	0.0125	P	6.0
3	☐	2500.000	2284.444	55283.11	0.5397	P	3.3
4	☐	6250.000	5845.421	136559.07	1.3787	P	4.7
5	☐	12500.000	11411.836	270335.00	2.6903	P	1.5
6	☐	25000.000	22939.371	532946.36	5.4064	P	1.9
7	☐	50000.000	46878.910	1069313.42	11.0471	P	2.0
8	☐	250000.00	250896.96	5968223.40	59.1183	A	1.3

$$y = 2.3562E-004 * x + 0.0014$$

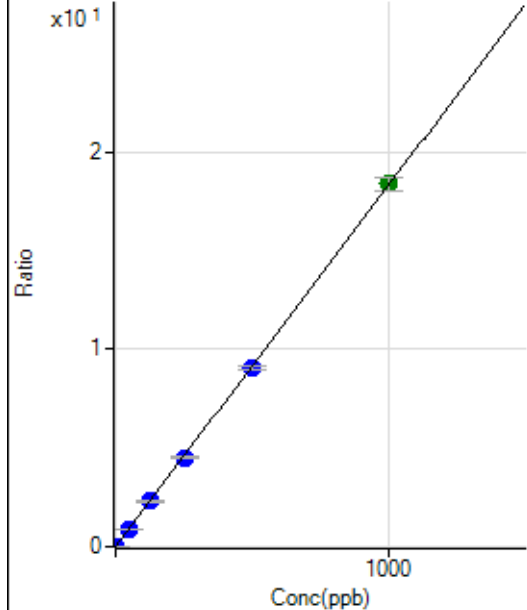
$$R = 0.9999$$

$$DL = 2.452$$

$$BEC = 5.916$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.56	0.0008	P	29.2
2	☐	1.000	0.938	1834.58	0.0180	P	6.3
3	☐	50.000	49.331	92746.00	0.9054	P	2.3
4	☐	125.000	126.626	230062.26	2.3228	P	4.8
5	☐	250.000	246.610	454493.87	4.5229	P	2.2
6	☐	500.000	494.023	893074.37	9.0597	P	1.8
7	☐	1000.000	1003.666	1781378.37	18.4050	A	3.4
8	☐			1774.57	0.0176	P	3.2

$$y = 0.0183 * x + 8.2460E-004$$

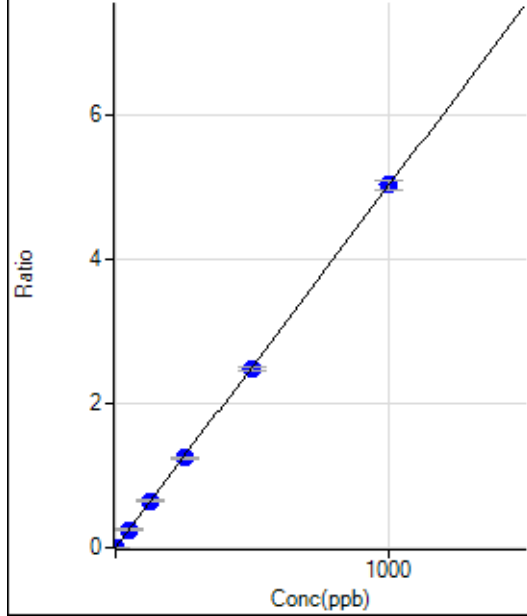
$$R = 1.0000$$

$$DL = 0.03935$$

$$BEC = 0.04497$$

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	30.00	0.0003	P	51.3
2	☐	1.000	0.955	517.79	0.0051	P	5.7
3	☐	50.000	50.135	25829.15	0.2521	P	1.9
4	☐	125.000	128.413	63934.08	0.6454	P	4.3
5	☐	250.000	247.703	125073.29	1.2446	P	1.9
6	☐	500.000	495.421	245363.86	2.4891	P	1.7
7	☐	1000.000	1002.430	487382.58	5.0361	P	2.6
8	☐			1763.46	0.0175	P	1.1

$$y = 0.0050 * x + 2.8978E-004$$

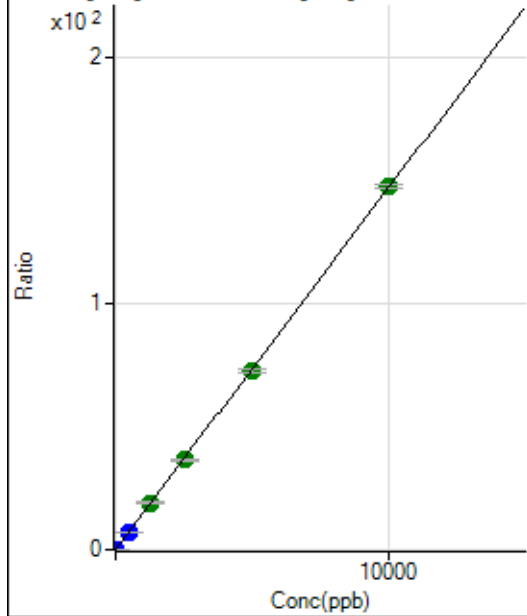
$$R = 1.0000$$

$$DL = 0.08872$$

$$BEC = 0.05768$$

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	306.68	0.0030	P	15.0
2	☐	2.000	1.977	3258.18	0.0320	P	3.1
3	☐	500.000	487.290	734002.07	7.1659	P	1.3
4	☐	1250.000	1293.800	1884927.11	19.0213	A	3.4
5	☐	2500.000	2477.183	3659416.99	36.4165	A	1.3
6	☐	5000.000	4949.827	7172746.14	72.7632	A	1.6
7	☐	10000.000	10025.951	14268153.40	147.3800	A	1.2
8	☐			5414.42	0.0536	P	3.6

$$y = 0.0147 * x + 0.0030$$

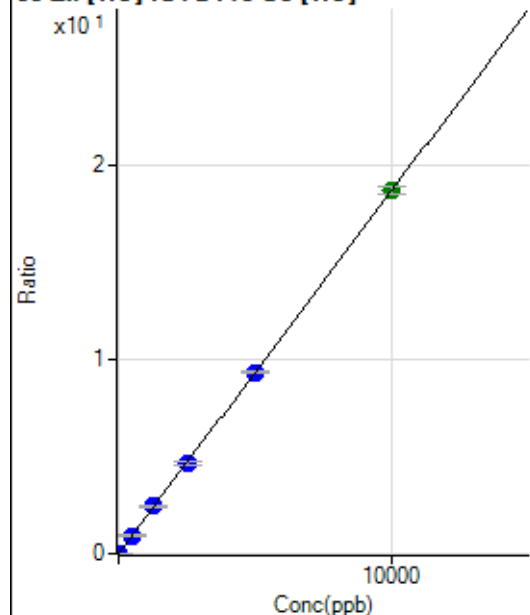
$$R = 1.0000$$

$$DL = 0.09042$$

$$BEC = 0.2012$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0007	P	19.4
2	☐	2.000	2.464	538.91	0.0053	P	7.8
3	☐	500.000	501.614	95980.40	0.9370	P	2.1
4	☐	1250.000	1310.099	242340.55	2.4462	P	4.1
5	☐	2500.000	2495.975	468254.12	4.6597	P	2.8
6	☐	5000.000	4987.526	917790.27	9.3105	P	1.3
7	☐	10000.000	9999.650	1806399.57	18.6663	A	2.3
8	☐			2592.48	0.0257	P	4.6

$$y = 0.0019 * x + 6.9686E-004$$

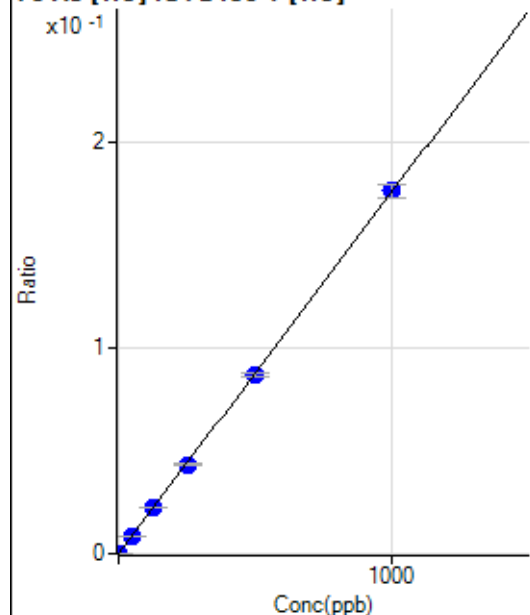
$$R = 1.0000$$

$$DL = 0.2177$$

$$BEC = 0.3733$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.00	0.0000	P	67.1
2	☐	1.000	0.969	115.01	0.0002	P	7.2
3	☐	50.000	49.037	5634.36	0.0086	P	0.8
4	☐	125.000	127.777	14166.52	0.0225	P	2.4
5	☐	250.000	245.781	27680.80	0.0432	P	1.9
6	☐	500.000	493.386	54866.99	0.0867	P	2.2
7	☐	1000.000	1004.062	109131.33	0.1765	P	3.7
8	☐			42.33	0.0001	P	17.8

$$y = 1.7581E-004 * x + 4.6130E-006$$

$$R = 0.9999$$

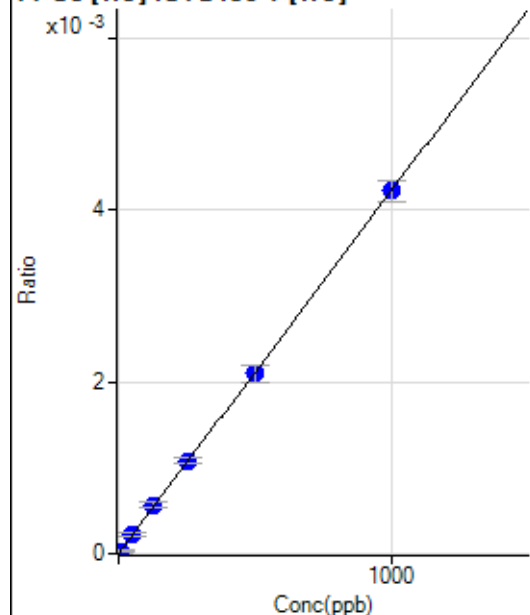
$$DL = 0.05283$$

$$BEC = 0.02624$$

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	6.793	20.00	0.0000	P	43.7
3	☐	50.000	53.194	147.78	0.0002	P	16.7
4	☐	125.000	134.511	358.90	0.0006	P	8.6
5	☐	250.000	256.472	694.47	0.0011	P	5.5
6	☐	500.000	495.567	1323.41	0.0021	P	9.9
7	☐	1000.000	999.241	2606.93	0.0042	P	5.8
8	☐			3.33	0.0000	P	173.2

$$y = 4.2202\text{E-}006 * x + 1.6968\text{E-}006$$

$$R = 0.9999$$

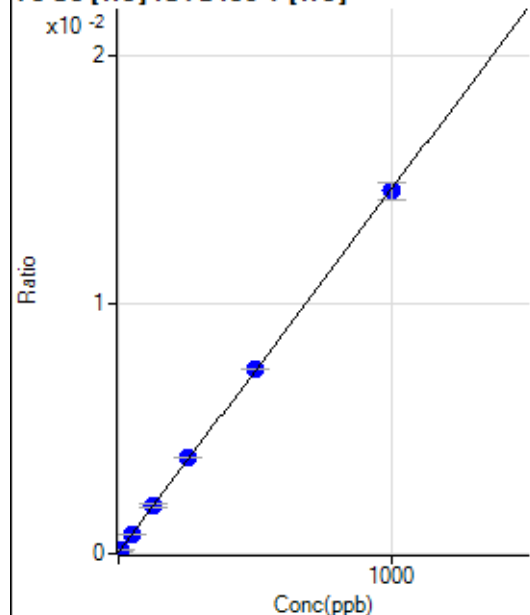
$$DL = 2.089$$

$$BEC = 0.4021$$

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	36.33	0.0001	P	13.4
2	☐	5.000	5.397	88.34	0.0001	P	15.2
3	☐	50.000	49.699	509.73	0.0008	P	0.2
4	☐	125.000	129.293	1222.84	0.0019	P	5.1
5	☐	250.000	259.663	2460.47	0.0038	P	0.4
6	☐	500.000	503.864	4682.26	0.0074	P	0.8
7	☐	1000.000	995.129	9004.79	0.0146	P	4.5
8	☐			47.00	0.0001	P	5.5

$$y = 1.4581\text{E-}005 * x + 5.5749\text{E-}005$$

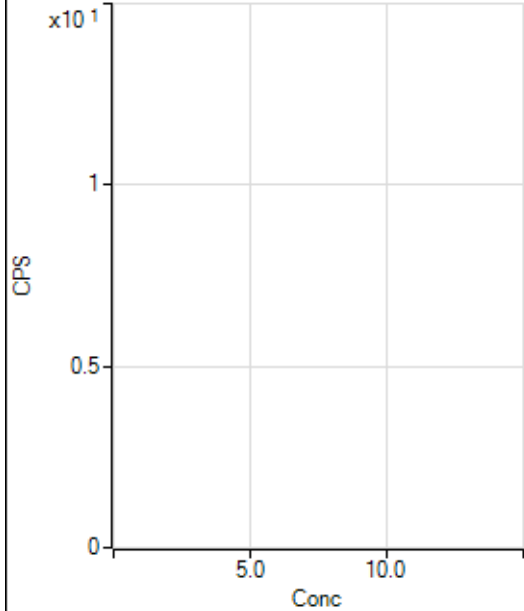
$$R = 0.9999$$

$$DL = 1.536$$

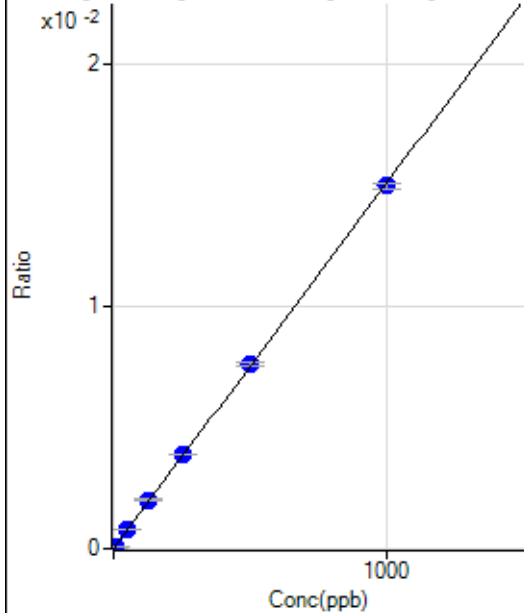
$$BEC = 3.823$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17418.87		P	2.5
2	☐			17335.37		P	3.8
3	☐			17071.28		P	3.8
4	☐			16296.32		P	0.7
5	☐			16750.65		P	9.4
6	☐			16663.80		P	2.6
7	☐			17101.47		P	2.3
8	☐			16680.55		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-10.42	0.0000	P	-167.
2	☐	5.000	5.666	481.63	0.0001	P	7.0
3	☐	50.000	53.431	4656.54	0.0008	P	0.6
4	☐	125.000	134.115	11485.56	0.0020	P	1.4
5	☐	250.000	258.281	22400.44	0.0039	P	1.1
6	☐	500.000	507.096	43937.87	0.0076	P	2.2
7	☐	1000.000	993.067	86470.46	0.0150	P	1.8
8	☐			120.82	0.0000	P	20.4

$$y = 1.5079E-005 * x - 1.8269E-006$$

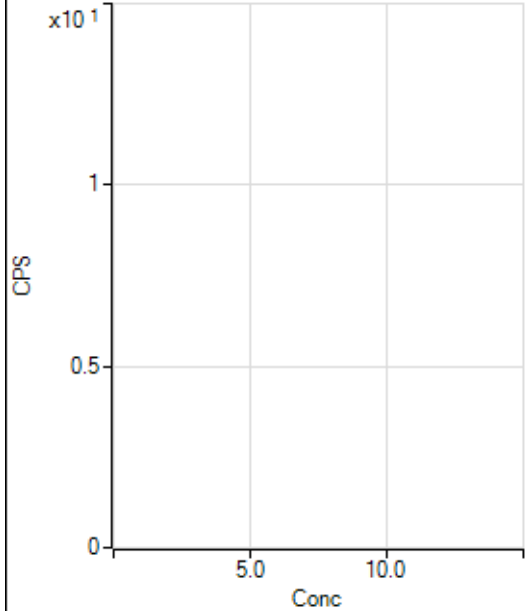
$$R = 0.9999$$

$$DL = 0.6073$$

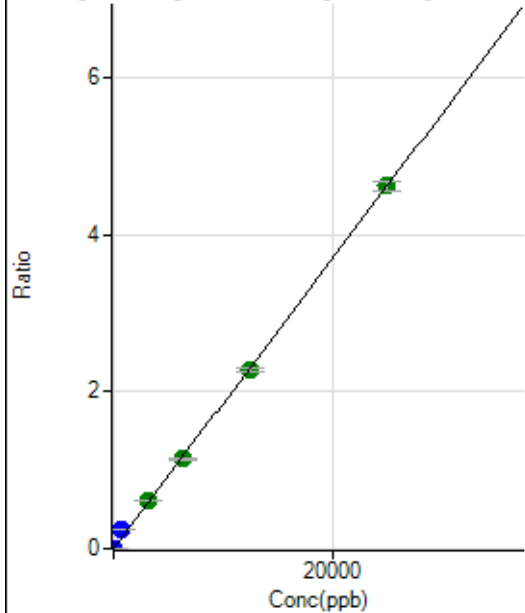
$$BEC = -0.1212$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			268.72		P	5.6
2	☐			267.47		P	0.5
3	☐			256.22		P	3.2
4	☐			252.47		P	1.0
5	☐			277.05		P	2.3
6	☐			272.47		P	3.9
7	☐			270.80		P	4.0
8	☐			251.64		P	7.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	397.24	0.0001	P	13.4
2	☐	1.000	1.019	1486.23	0.0003	P	4.7
3	☐	625.000	1310.335	1400296.72	0.2418	P	1.3
4	☐	3125.000	3271.057	3430343.61	0.6034	A	0.6
5	☐	6250.000	6206.363	6586663.17	1.1448	A	1.4
6	☐	12500.000	12334.911	13076732.67	2.2752	A	2.4
7	☐	25000.000	25058.063	26690756.67	4.6219	A	2.6
8	☐			10292.92	0.0018	P	3.2

$$y = 1.8444\text{E-}004 * x + 7.0285\text{E-}005$$

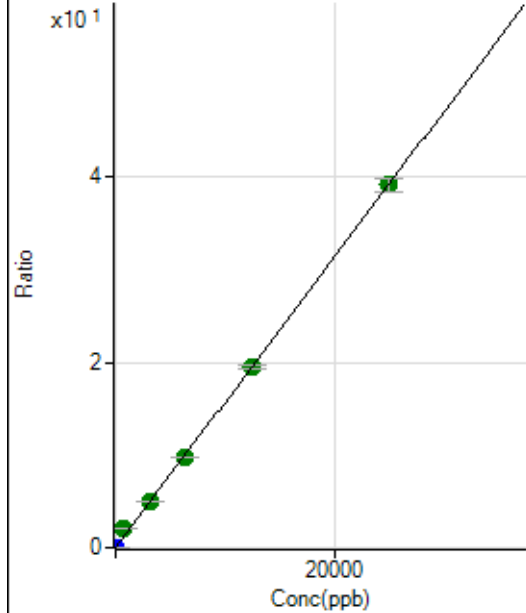
$$R = 0.9996$$

$$DL = 0.1529$$

$$BEC = 0.3811$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	191.68	0.0000	P	33.9
2	☐	1.000	0.970	8942.02	0.0016	P	1.7
3	☐	625.000	1269.261	11518391.75	1.9884	A	0.6
4	☐	3125.000	3189.405	28402952.37	4.9965	A	2.0
5	☐	6250.000	6195.969	55853438.75	9.7065	A	0.8
6	☐	12500.000	12473.949	112347126.1	19.5414	A	1.3
7	☐	25000.000	25002.376	226158735.6	39.1680	A	4.0
8	☐			84269.27	0.0147	P	6.0

$$y = 0.0016 * x + 3.3918E-005$$

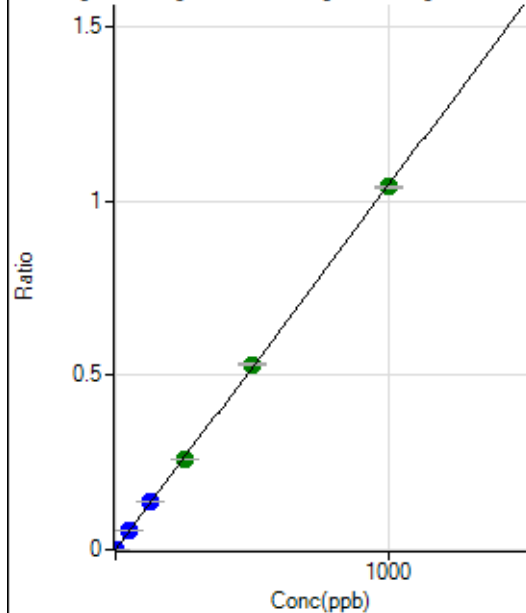
$$R = 0.9997$$

$$DL = 0.02201$$

$$BEC = 0.02165$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	347.24	0.0001	P	20.0
2	☐	1.000	0.999	6376.65	0.0011	P	1.3
3	☐	50.000	51.654	313634.53	0.0541	P	0.2
4	☐	125.000	131.258	781550.85	0.1375	P	1.5
5	☐	250.000	248.814	1499241.42	0.2606	A	1.4
6	☐	500.000	508.097	3058620.64	0.5320	A	0.7
7	☐	1000.000	995.383	6019972.66	1.0422	A	0.8
8	☐			2336.37	0.0004	P	2.9

$$y = 0.0010 * x + 6.1167E-005$$

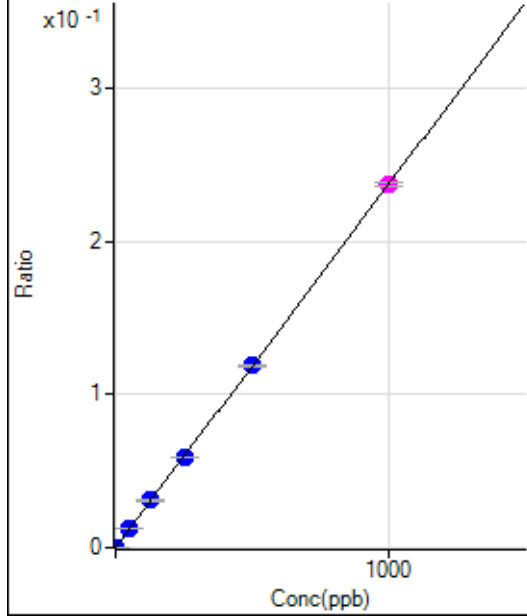
$$R = 0.9999$$

$$DL = 0.03506$$

$$BEC = 0.05842$$

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	66.67	0.0000	P	45.0
2	☐	1.000	0.949	1364.00	0.0002	P	7.9
3	☐	50.000	50.630	69681.01	0.0120	P	1.4
4	☐	125.000	130.166	175702.60	0.0309	P	1.7
5	☐	250.000	248.462	339424.71	0.0590	P	0.3
6	☐	500.000	501.485	684317.56	0.1190	P	1.3
7	☐	1000.000	998.965	1369673.47	0.2371	M	1.0
8	☐			519.47	0.0001	P	3.5

$$y = 2.3737\text{E-}004 * x + 1.1887\text{E-}005$$

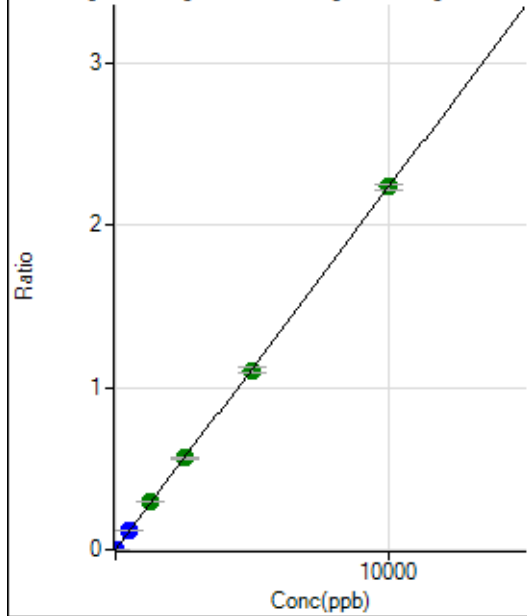
$$R = 1.0000$$

$$DL = 0.06757$$

$$BEC = 0.05008$$

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	111.12	0.0000	P	19.8
2	☐	5.000	5.592	7316.01	0.0013	P	2.6
3	☐	500.000	522.328	676828.72	0.1169	P	1.5
4	☐	1250.000	1314.085	1671090.98	0.2940	A	1.2
5	☐	2500.000	2520.520	3244033.90	0.5638	A	1.1
6	☐	5000.000	4954.040	6368802.66	1.1081	A	3.1
7	☐	10000.000	10008.723	12930665.22	2.2388	A	1.5
8	☐			5295.58	0.0009	P	6.8

$$y = 2.2368\text{E-}004 * x + 1.9690\text{E-}005$$

$$R = 1.0000$$

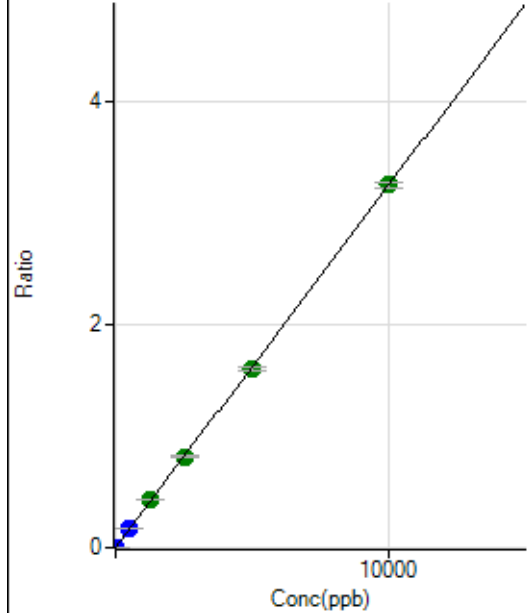
$$DL = 0.05228$$

$$BEC = 0.08803$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.45	0.0000	P	27.9
2	☐	5.000	4.738	8875.30	0.0015	P	5.3
3	☐	500.000	524.085	985704.13	0.1702	P	1.8
4	☐	1250.000	1318.373	2433372.54	0.4281	A	2.3
5	☐	2500.000	2507.842	4685801.45	0.8144	A	1.2
6	☐	5000.000	4949.422	9237954.63	1.6072	A	1.9
7	☐	10000.000	10013.578	18780104.41	3.2516	A	1.4
8	☐			7374.36	0.0013	P	5.4

$$y = 3.2472\text{E-}004 * x + 3.4577\text{E-}006$$

$$R = 1.0000$$

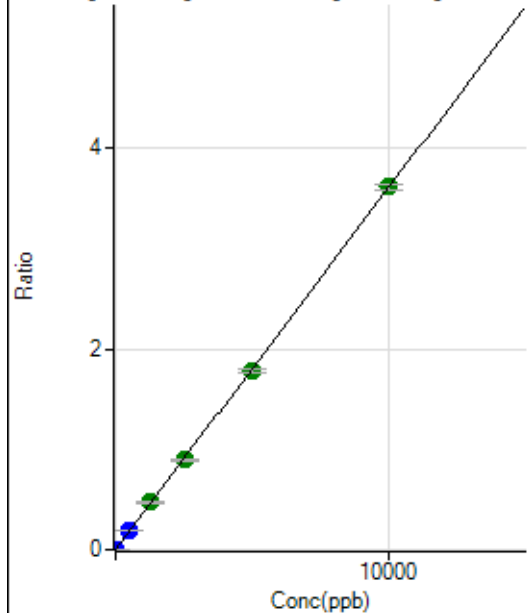
$$DL = 0.008905$$

$$BEC = 0.01065$$

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	83.34	0.0000	P	18.7
2	☐	5.000	4.682	9803.74	0.0017	P	4.3
3	☐	500.000	511.634	1068643.57	0.1845	P	0.3
4	☐	1250.000	1304.505	2673575.67	0.4704	A	2.2
5	☐	2500.000	2476.634	5138313.96	0.8930	A	0.9
6	☐	5000.000	4947.788	10253904.40	1.7839	A	2.0
7	☐	10000.000	10024.553	20876596.47	3.6144	A	1.4
8	☐			11352.24	0.0020	P	7.0

$$y = 3.6055\text{E-}004 * x + 1.4713\text{E-}005$$

$$R = 1.0000$$

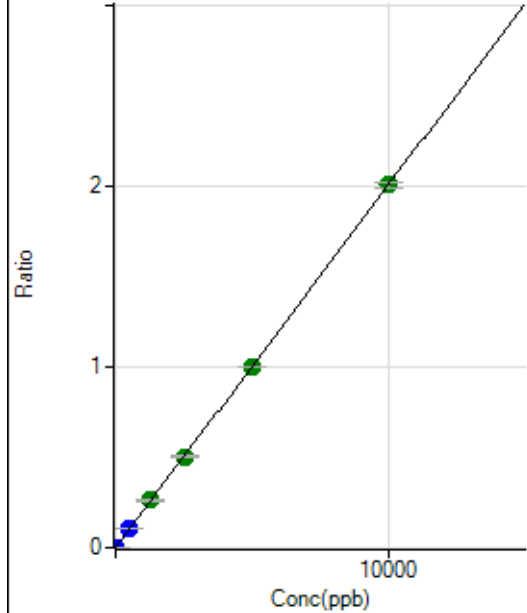
$$DL = 0.0229$$

$$BEC = 0.04081$$

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	22.22	0.0000	P	80.9
2	☐	5.000	4.865	5654.09	0.0010	P	4.0
3	☐	500.000	525.299	611217.86	0.1055	P	1.4
4	☐	1250.000	1309.525	1495112.73	0.2630	A	2.0
5	☐	2500.000	2516.321	2908377.37	0.5054	A	1.8
6	☐	5000.000	4980.635	5750960.50	1.0004	A	0.8
7	☐	10000.000	9996.897	11597320.48	2.0079	A	1.6
8	☐			4756.52	0.0008	P	5.5

$$y = 2.0086\text{E-}004 * x + 3.9828\text{E-}006$$

$$R = 1.0000$$

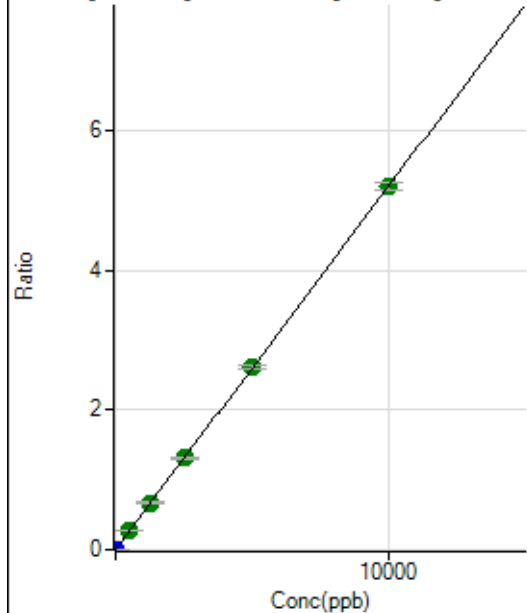
$$DL = 0.04814$$

$$BEC = 0.01983$$

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	41.67	0.0000	P	18.6
2	☐	5.000	4.806	14466.22	0.0025	P	1.1
3	☐	500.000	516.437	1558993.76	0.2691	A	1.3
4	☐	1250.000	1296.181	3839244.35	0.6755	A	3.3
5	☐	2500.000	2522.887	7565424.22	1.3148	A	2.7
6	☐	5000.000	5007.472	14999520.47	2.6095	A	2.0
7	☐	10000.000	9983.948	30048076.02	5.2029	A	2.0
8	☐			12264.58	0.0021	P	5.8

$$y = 5.2113\text{E-}004 * x + 7.3606\text{E-}006$$

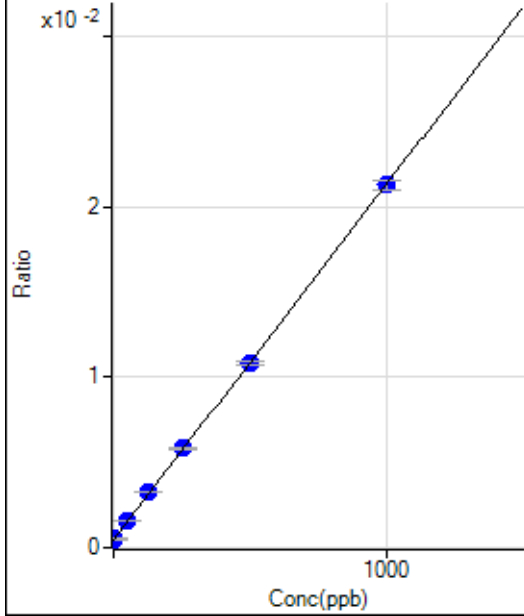
$$R = 1.0000$$

$$DL = 0.007881$$

$$BEC = 0.01412$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2147.44	0.0005	P	1.7
2	☐	1.000	2.471	2444.74	0.0005	P	7.0
3	☐	50.000	51.955	7463.35	0.0015	P	1.1
4	☐	125.000	135.777	15937.42	0.0033	P	0.8
5	☐	250.000	257.836	28608.09	0.0058	P	2.1
6	☐	500.000	496.488	54300.12	0.0108	P	1.6
7	☐	1000.000	998.351	105950.95	0.0213	P	2.4
8	☐			2108.56	0.0004	P	4.9

$$y = 2.0852E-005 * x + 4.5671E-004$$

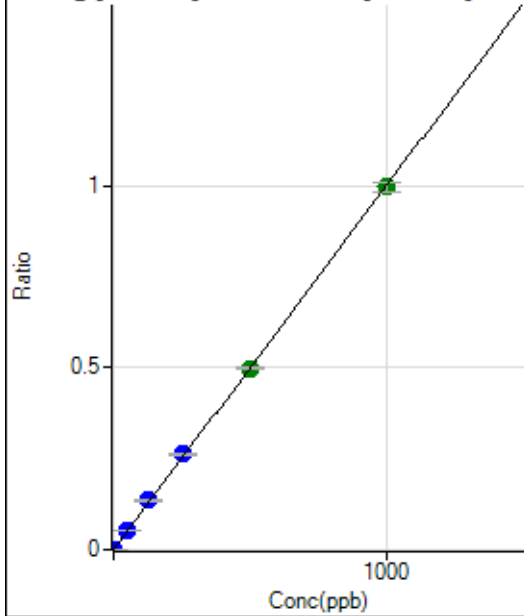
$$R = 0.9999$$

$$DL = 1.145$$

$$BEC = 21.9$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.85	0.0000	P	48.4
2	☐	1.000	0.982	4786.59	0.0010	P	0.7
3	☐	50.000	54.065	262221.26	0.0541	P	1.6
4	☐	125.000	134.814	653871.78	0.1349	P	3.0
5	☐	250.000	261.576	1283784.01	0.2618	P	0.3
6	☐	500.000	498.186	2504515.68	0.4985	A	1.2
7	☐	1000.000	996.583	4966598.97	0.9973	A	2.5
8	☐			2487.77	0.0005	P	3.8

$$y = 0.0010 * x + 1.1998E-005$$

$$R = 0.9999$$

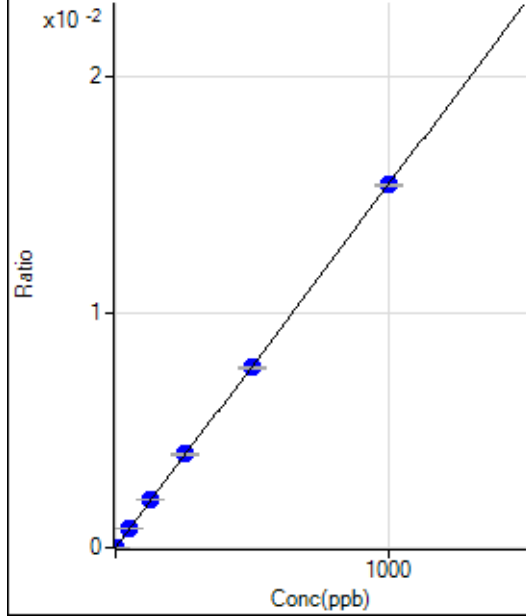
$$DL = 0.01741$$

$$BEC = 0.01199$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	46.8
2	☐	1.000	1.029	84.72	0.0000	P	15.8
3	☐	50.000	51.866	3883.93	0.0008	P	5.3
4	☐	125.000	131.226	9817.49	0.0020	P	1.2
5	☐	250.000	256.902	19443.04	0.0040	P	2.4
6	☐	500.000	496.774	38494.01	0.0077	P	1.2
7	☐	1000.000	999.016	76742.55	0.0154	P	0.8
8	☐			70.83	0.0000	P	43.6

$$y = 1.5422\text{E-}005 * x + 1.7529\text{E-}006$$

$$R = 1.0000$$

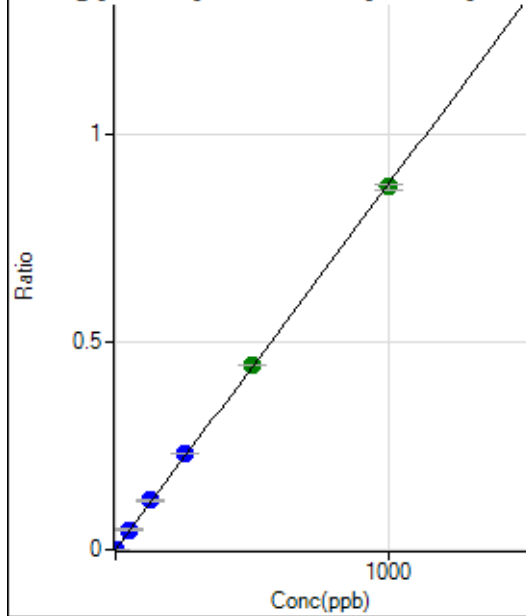
$$DL = 0.1597$$

$$BEC = 0.1137$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	48.2
2	☐	1.000	0.977	4164.64	0.0009	P	3.3
3	☐	50.000	54.946	234305.24	0.0484	P	1.9
4	☐	125.000	135.198	576583.05	0.1190	P	2.0
5	☐	250.000	263.430	1136678.93	0.2318	P	0.8
6	☐	500.000	504.779	2231350.18	0.4442	A	0.6
7	☐	1000.000	992.731	4350624.75	0.8735	A	1.8
8	☐			2380.83	0.0005	P	5.4

$$y = 8.7990\text{E-}004 * x + 5.9387\text{E-}006$$

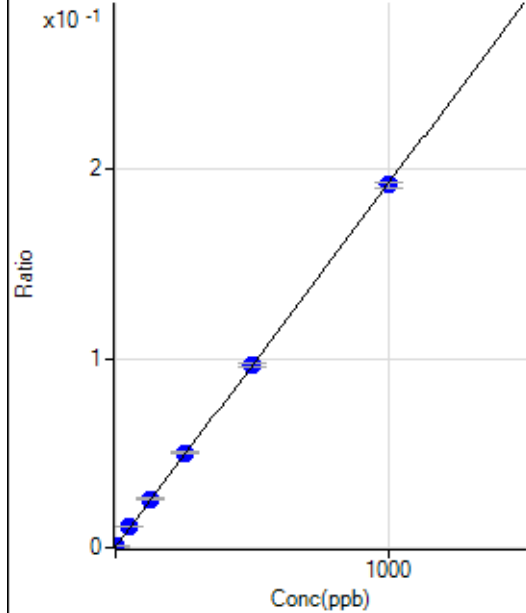
$$R = 0.9999$$

$$DL = 0.009752$$

$$BEC = 0.006749$$

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	1509.88	0.0003	P	1.9
2	☐	1.000	1.179	2635.40	0.0005	P	5.7
3	☐	50.000	54.438	52294.03	0.0108	P	1.9
4	☐	125.000	133.134	125680.94	0.0259	P	0.5
5	☐	250.000	259.723	246579.00	0.0503	P	0.8
6	☐	500.000	500.571	485266.30	0.0966	P	1.5
7	☐	1000.000	996.045	955750.87	0.1919	P	1.8
8	☐			1833.36	0.0004	P	5.9

$$y = 1.9234\text{E-}004 * x + 3.2113\text{E-}004$$

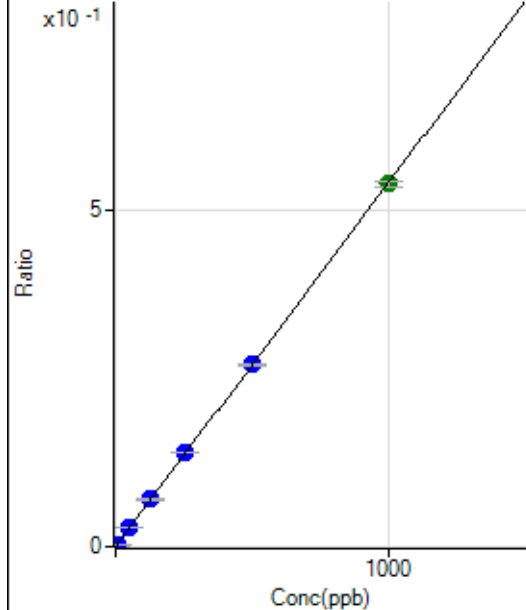
$$R = 0.9999$$

$$DL = 0.09716$$

$$BEC = 1.67$$

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	202.79	0.0000	P	24.8
2	☐	5.000	4.927	13056.58	0.0027	P	1.9
3	☐	50.000	52.221	137356.38	0.0283	P	2.0
4	☐	125.000	130.393	342720.14	0.0707	P	1.6
5	☐	250.000	258.670	687653.84	0.1402	P	1.0
6	☐	500.000	499.959	1361306.43	0.2710	P	1.8
7	☐	1000.000	997.068	2691506.83	0.5404	A	1.4
8	☐			4064.61	0.0008	P	7.4

$$y = 5.4197\text{E-}004 * x + 4.3305\text{E-}005$$

$$R = 1.0000$$

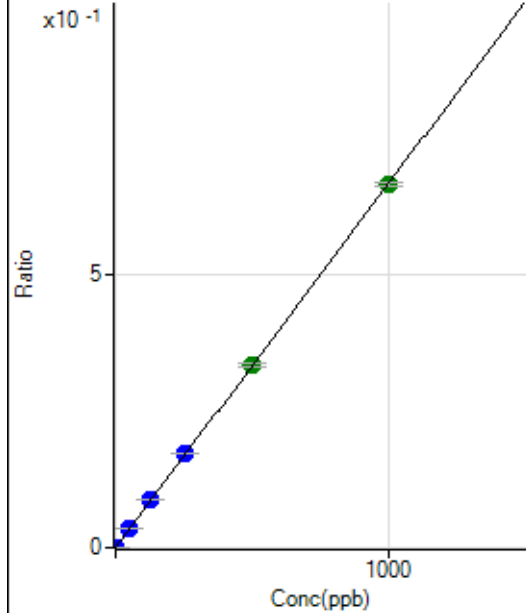
$$DL = 0.05935$$

$$BEC = 0.0799$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	70.3
2	☐	2.000	2.087	6710.15	0.0014	P	1.3
3	☐	50.000	52.039	167808.15	0.0346	P	0.7
4	☐	125.000	131.385	423706.71	0.0874	P	1.7
5	☐	250.000	260.395	849665.62	0.1733	P	0.2
6	☐	500.000	499.723	1670234.32	0.3325	A	1.9
7	☐	1000.000	996.639	3302480.63	0.6631	A	0.9
8	☐			2658.68	0.0005	P	14.2

$$y = 6.6534\text{E-}004 * x + 5.9368\text{E-}006$$

$$R = 0.9999$$

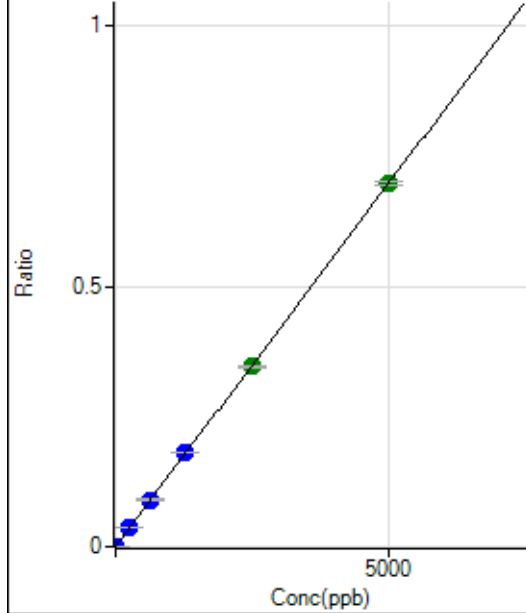
$$DL = 0.01882$$

$$BEC = 0.008923$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	65.5
2	☐	10.000	9.622	6468.39	0.0013	P	7.1
3	☐	250.000	263.364	178050.04	0.0367	P	1.1
4	☐	625.000	648.751	438672.25	0.0905	P	0.9
5	☐	1250.000	1296.007	886638.48	0.1808	P	0.4
6	☐	2500.000	2477.422	1736050.02	0.3456	A	1.4
7	☐	5000.000	4996.151	3471219.61	0.6969	A	1.0
8	☐			2650.33	0.0005	P	2.3

$$y = 1.3950\text{E-}004 * x + 2.9077\text{E-}006$$

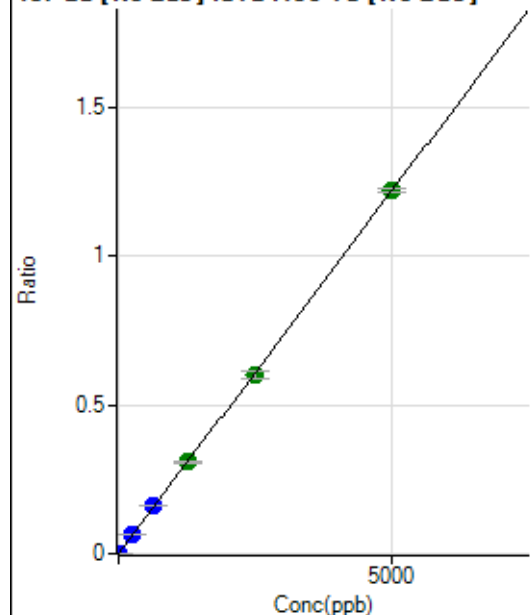
$$R = 0.9999$$

$$DL = 0.04097$$

$$BEC = 0.02084$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	51.4
2	☐	10.000	9.486	11124.32	0.0023	P	1.4
3	☐	250.000	267.689	315652.32	0.0651	P	1.2
4	☐	625.000	656.347	774185.85	0.1597	P	0.2
5	☐	1250.000	1264.618	1508931.92	0.3077	A	0.8
6	☐	2500.000	2471.619	3020911.35	0.6014	A	3.6
7	☐	5000.000	5005.734	6066197.01	1.2180	A	1.2
8	☐			4345.25	0.0009	P	5.0

$$y = 2.4332E-004 * x + 4.1842E-006$$

$$R = 1.0000$$

$$DL = 0.02651$$

$$BEC = 0.0172$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	173.2
2	☐			4.45		P	86.6
3	☐			15.55		P	24.8
4	☐			51.11		P	82.8
5	☐			86.67		P	20.4
6	☐			164.45		P	35.0
7	☐			311.12		P	15.2
8	☐			33.33		P	20.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			3.33		P	100.1
5	☐			11.11		P	45.8
6	☐			4.44		P	43.4
7	☐			18.89		P	20.4
8	☐			8.89		P	57.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			2.78		P	173.2
3	☐			8.33		P	100.0
4	☐			36.11		P	35.3
5	☐			66.67		P	57.3
6	☐			127.78		P	26.4
7	☐			202.78		P	16.6
8	☐			836.16		P	5.1

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			6.67		P	50.0
4	☐			10.00		P	57.8
5	☐			28.89		P	59.2
6	☐			65.56		P	12.8
7	☐			102.22		P	16.4
8	☐			308.90		P	11.4

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	52.9
2	☐			30.56		P	41.7
3	☐			55.56		P	43.3
4	☐			77.78		P	6.2
5	☐			86.12		P	24.4
6	☐			91.67		P	24.1
7	☐			222.23		P	43.3
8	☐			930.61		P	9.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	34.0
2	☐			83.33		P	35.6
3	☐			91.11		P	29.3
4	☐			84.45		P	30.7
5	☐			83.33		P	12.0
6	☐			120.00		P	2.8
7	☐			166.67		P	18.3
8	☐			495.57		P	3.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	41.7
2	☐			41.67		P	40.0
3	☐			33.34		P	66.1
4	☐			36.11		P	53.3
5	☐			25.00		P	0.0
6	☐			69.44		P	48.5
7	☐			44.45		P	10.8
8	☐			75.00		P	40.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	66.1
2	☐			16.67		P	NaN
3	☐			15.56		P	32.7
4	☐			20.00		P	16.7
5	☐			15.56		P	65.5
6	☐			13.33		P	25.0
7	☐			16.67		P	20.0
8	☐			28.89		P	13.3

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	96.4
2	☐			13.89		P	91.6
3	☐			25.00		P	33.3
4	☐			33.33		P	43.3
5	☐			44.45		P	10.8
6	☐			38.89		P	12.4
7	☐			66.67		P	57.3
8	☐			269.46		P	9.4

172 Yb [He] No available calibration points

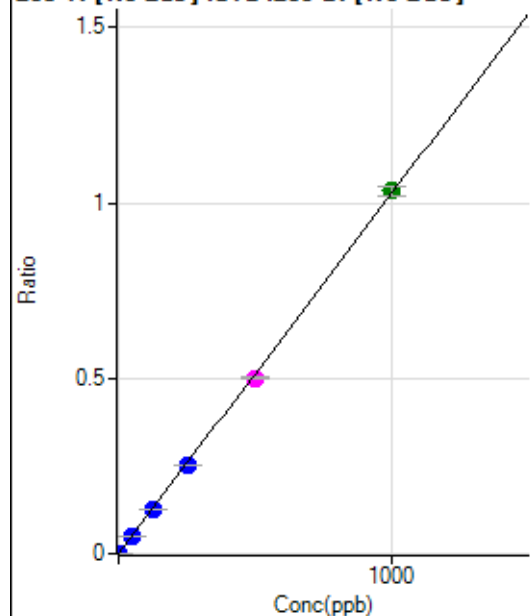
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.41		P	43.2
2	☐			11.11		P	86.6
3	☐			3.71		P	86.6
4	☐			3.71		P	86.6
5	☐			18.52		P	62.4
6	☐			14.82		P	21.7
7	☐			33.34		P	28.9
8	☐			98.15		P	6.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1016.73		P	4.6
2	☐			941.73		P	2.7
3	☐			1708.49		P	9.7
4	☐			2472.52		P	7.0
5	☐			4139.63		P	1.7
6	☐			7535.70		P	4.4
7	☐			14494.47		P	0.8
8	☐			1002.85		P	6.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5784.70		P	3.9
2	☐			5842.14		P	3.1
3	☐			6218.27		P	3.2
4	☐			6438.74		P	1.9
5	☐			7463.38		P	3.4
6	☐			8688.23		P	5.7
7	☐			11497.80		P	4.2
8	☐			6018.16		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	200.01	0.0001	P	31.3
2	☐	1.000	0.901	3094.89	0.0010	P	5.3
3	☐	50.000	49.251	157730.22	0.0506	P	1.4
4	☐	125.000	123.286	387462.61	0.1266	P	2.9
5	☐	250.000	244.922	791359.82	0.2515	P	1.2
6	☐	500.000	487.419	1597178.86	0.5004	M	1.5
7	☐	1000.000	1007.812	3212140.24	1.0345	A	2.8
8	☐			1283.43	0.0004	P	2.0

$$y = 0.0010 * x + 6.5230E-005$$

$$R = 0.9999$$

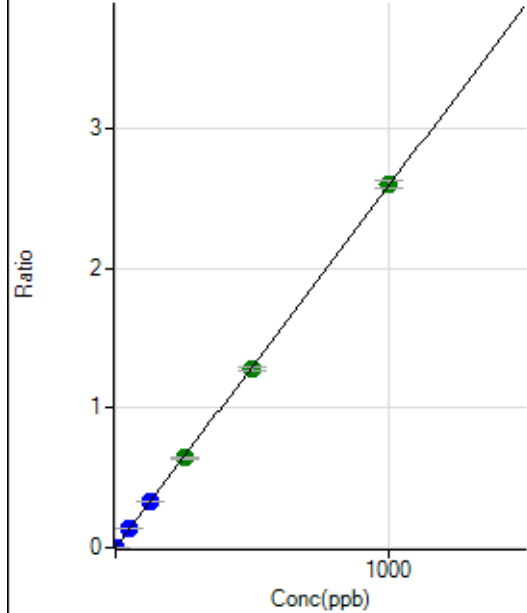
$$DL = 0.05959$$

$$BEC = 0.06355$$

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	545.05	0.0002	P	12.3
2	☐	1.000	0.821	7190.12	0.0023	P	2.4
3	☐	50.000	50.901	410653.18	0.1318	P	0.3
4	☐	125.000	128.151	1014537.27	0.3315	P	2.1
5	☐	250.000	247.852	2016872.90	0.6410	A	1.3
6	☐	500.000	493.421	4071985.34	1.2759	A	2.2
7	☐	1000.000	1003.388	8055793.65	2.5943	A	2.2
8	☐			3581.11	0.0012	P	6.7

$$y = 0.0026 * x + 1.7861E-004$$

$$R = 1.0000$$

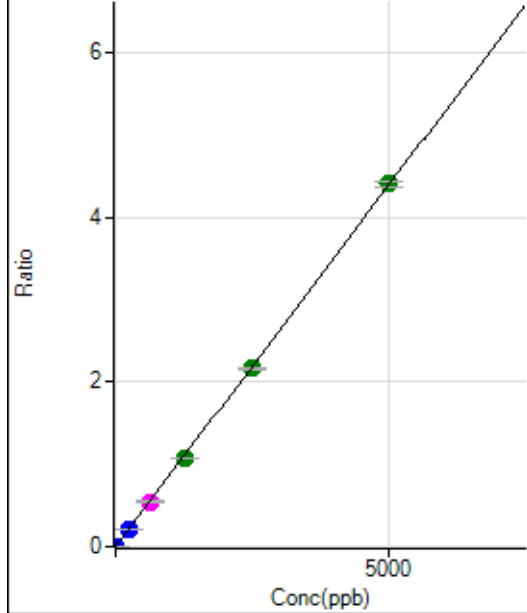
$$DL = 0.02539$$

$$BEC = 0.06908$$

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	400.01	0.0001	P	4.7
2	☐	1.000	0.873	2802.20	0.0009	P	2.5
3	☐	250.000	242.316	663284.42	0.2128	P	1.5
4	☐	625.000	618.093	1660626.54	0.5427	M	4.0
5	☐	1250.000	1217.176	3363059.85	1.0686	A	0.5
6	☐	2500.000	2469.424	6919064.97	2.1679	A	1.4
7	☐	5000.000	5024.742	13698691.86	4.4111	A	1.5
8	☐			4463.81	0.0016	P	1.9

$$y = 8.7785E-004 * x + 1.3091E-004$$

$$R = 0.9999$$

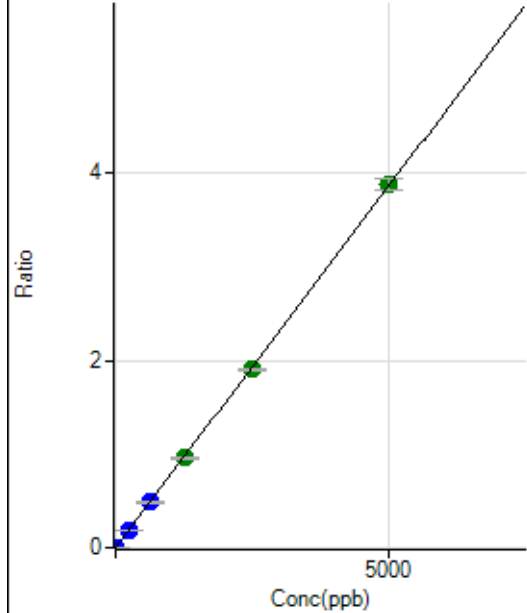
$$DL = 0.02123$$

$$BEC = 0.1491$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	377.79	0.0001	P	10.5
2	☐	1.000	0.880	2509.54	0.0008	P	2.2
3	☐	250.000	249.212	599976.83	0.1925	P	1.7
4	☐	625.000	628.991	1486775.32	0.4858	P	1.8
5	☐	1250.000	1239.557	3012654.84	0.9572	A	1.5
6	☐	2500.000	2467.461	6081372.24	1.9053	A	0.8
7	☐	5000.000	5018.421	12029975.62	3.8749	A	3.3
8	☐			3950.67	0.0014	P	7.1

$$y = 7.7211\text{E-}004 * x + 1.2378\text{E-}004$$

$$R = 1.0000$$

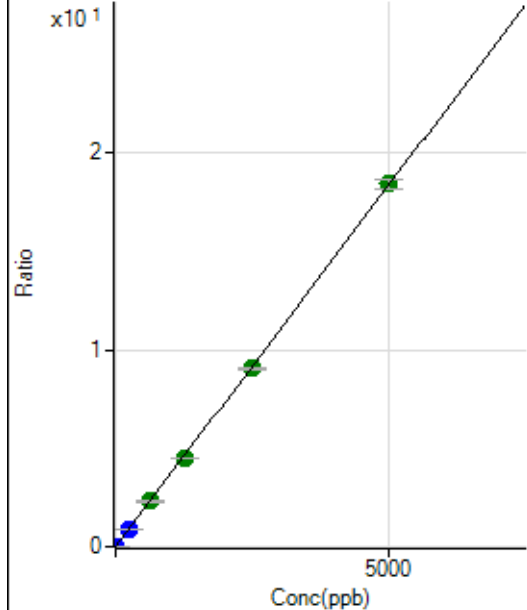
$$DL = 0.05054$$

$$BEC = 0.1603$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1607.54	0.0005	P	6.4
2	☐	1.000	0.858	11486.04	0.0037	P	1.9
3	☐	250.000	245.940	2815073.58	0.9034	P	1.6
4	☐	625.000	629.831	7077162.14	2.3127	A	2.8
5	☐	1250.000	1226.373	14170537.03	4.5026	A	0.7
6	☐	2500.000	2464.609	28878760.77	9.0482	A	0.8
7	☐	5000.000	5023.201	57260335.35	18.4409	A	2.4
8	☐			19137.03	0.0067	P	2.8

$$y = 0.0037 * x + 5.2647\text{E-}004$$

$$R = 0.9999$$

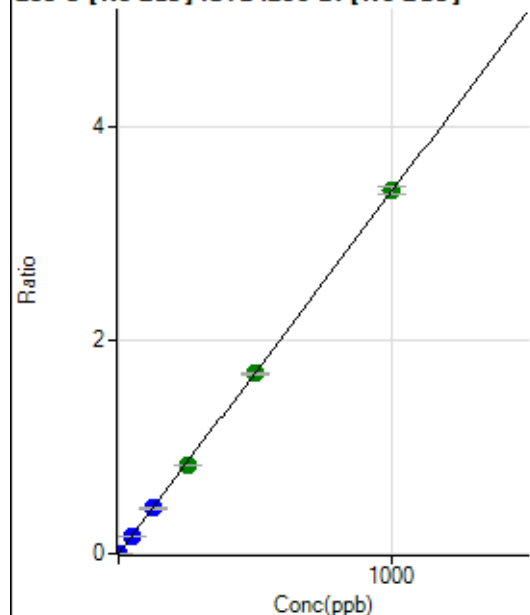
$$DL = 0.02758$$

$$BEC = 0.1434$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	31.8
2	☐	1.000	0.942	10020.89	0.0032	P	1.4
3	☐	50.000	49.860	526136.33	0.1688	P	0.8
4	☐	125.000	124.902	1294545.31	0.4229	P	0.9
5	☐	250.000	246.205	2623554.16	0.8337	A	0.2
6	☐	500.000	497.541	5376970.48	1.6847	A	0.8
7	☐	1000.000	1002.198	10536938.86	3.3934	A	2.3
8	☐			1269.55	0.0004	P	27.5

$$y = 0.0034 * x + 1.7228E-005$$

$$R = 1.0000$$

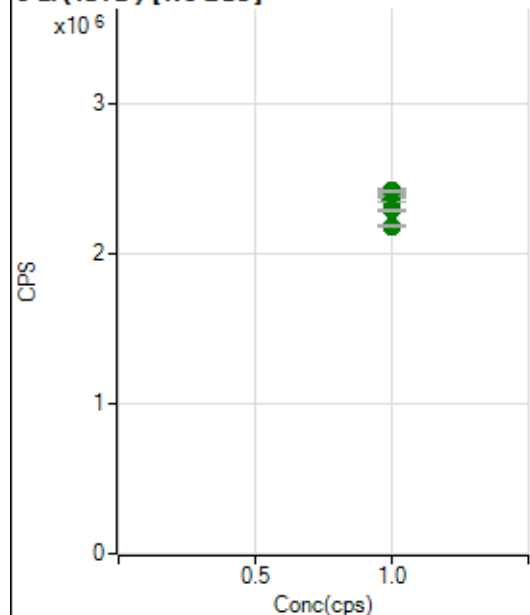
$$DL = 0.004849$$

$$BEC = 0.005088$$

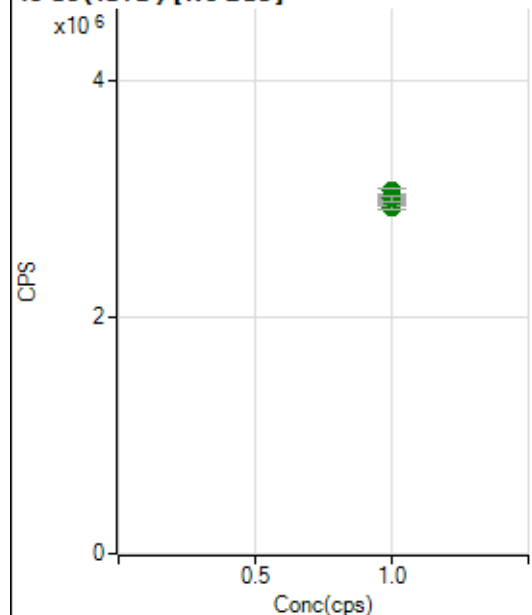
Weight: <None>

Min Conc: 0

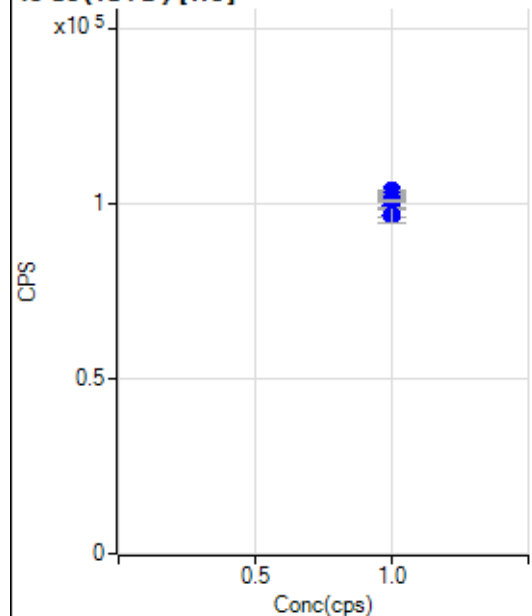
6 Li (ISTD) [No Gas]



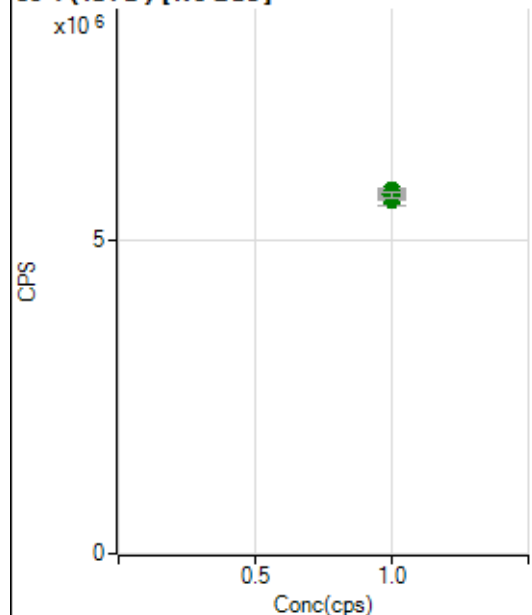
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2357209.52		A	1.1
2	☐	1.000		2412214.75		A	0.4
3	☐	1.000		2404838.28		A	2.0
4	☐	1.000		2385835.45		A	0.7
5	☐	1.000		2414019.74		A	0.6
6	☐	1.000		2338631.09		A	0.2
7	☐	1.000		2286672.50		A	0.4
8	☐	1.000		2180706.82		A	0.7

45 Sc (ISTD) [No Gas]

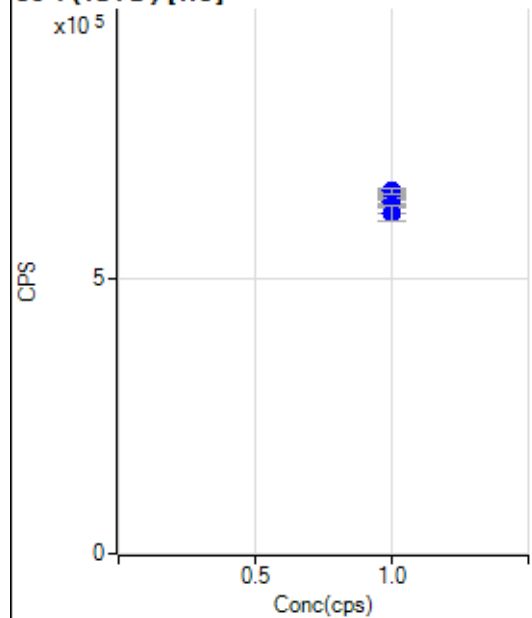
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2956790.79		A	1.1
2	☐	1.000		3062593.77		A	1.4
3	☐	1.000		2987737.32		A	1.9
4	☐	1.000		3008728.56		A	1.9
5	☐	1.000		3004321.69		A	1.5
6	☐	1.000		2994258.81		A	1.0
7	☐	1.000		2919140.30		A	1.2
8	☐	1.000		2998796.66		A	1.9

45 Sc (ISTD) [He]

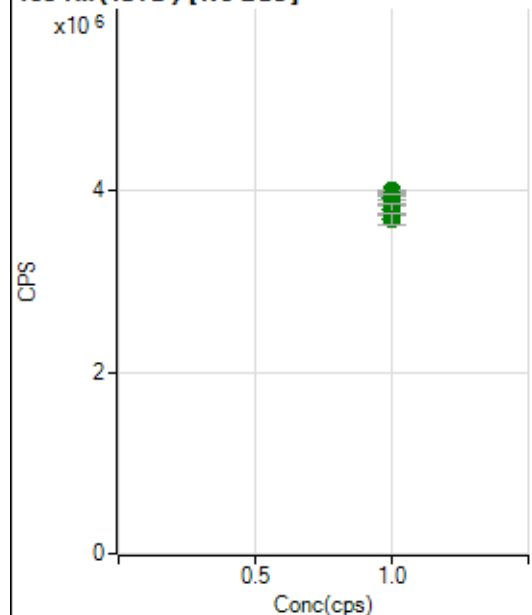
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		103671.61		P	0.5
2	☐	1.000		101744.12		P	0.3
3	☐	1.000		102424.80		P	1.0
4	☐	1.000		99225.72		P	5.8
5	☐	1.000		100485.82		P	0.3
6	☐	1.000		98572.60		P	0.4
7	☐	1.000		96842.78		P	4.7
8	☐	1.000		100954.09		P	0.5

89 Y (ISTD) [No Gas]

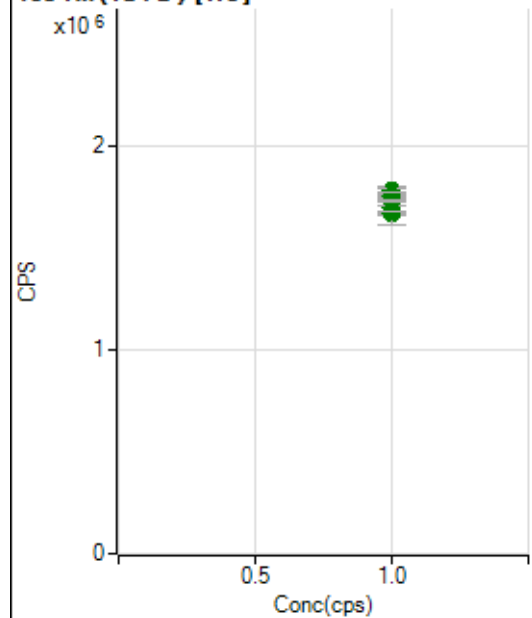
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5654275.78		A	3.1
2	☐	1.000		5759876.58		A	2.3
3	☐	1.000		5792661.02		A	1.0
4	☐	1.000		5685026.16		A	1.1
5	☐	1.000		5754098.18		A	1.0
6	☐	1.000		5748922.90		A	1.5
7	☐	1.000		5776411.30		A	1.5
8	☐	1.000		5734487.97		A	1.4

89 Y (ISTD) [He]

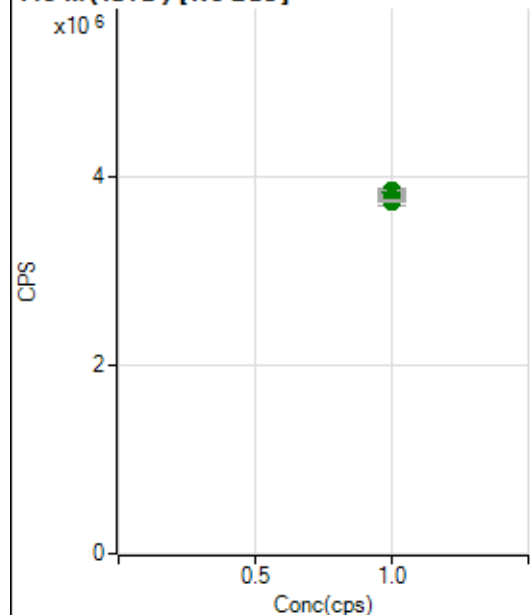
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		651647.36		P	0.6
2	☐	1.000		657506.37		P	0.6
3	☐	1.000		653139.39		P	1.4
4	☐	1.000		630832.08		P	4.1
5	☐	1.000		640426.10		P	1.7
6	☐	1.000		632509.73		P	0.6
7	☐	1.000		618861.35		P	5.0
8	☐	1.000		659837.32		P	1.5

103 Rh (ISTD) [No Gas]

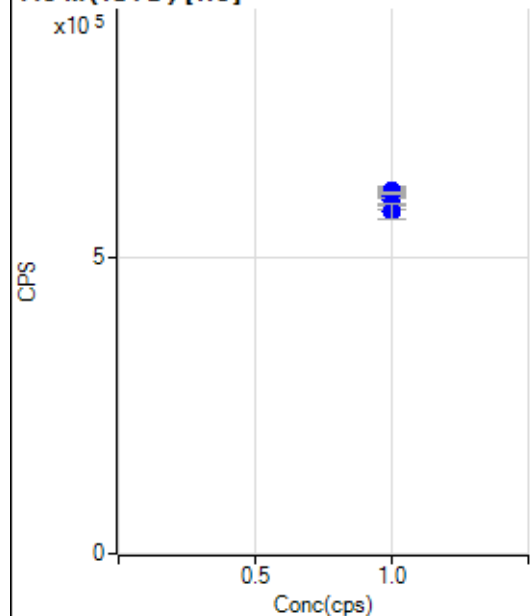
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3886836.07		A	2.7
2	☐	1.000		3994454.12		A	0.8
3	☐	1.000		3933179.69		A	1.5
4	☐	1.000		3944276.48		A	0.7
5	☐	1.000		3906296.61		A	2.6
6	☐	1.000		3853574.48		A	0.5
7	☐	1.000		3785590.75		A	3.1
8	☐	1.000		3684693.44		A	3.8

103 Rh (ISTD) [He]

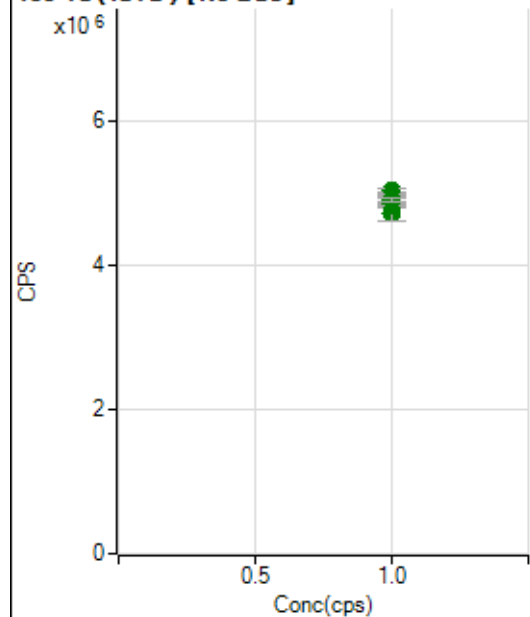
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1778672.86		A	2.2
2	☐	1.000		1771943.48		A	1.9
3	☐	1.000		1757824.89		A	2.0
4	☐	1.000		1694100.18		A	3.3
5	☐	1.000		1722696.07		A	1.9
6	☐	1.000		1682462.60		A	2.6
7	☐	1.000		1669323.83		A	6.5
8	☐	1.000		1676707.73		A	0.3

115 In (ISTD) [No Gas]

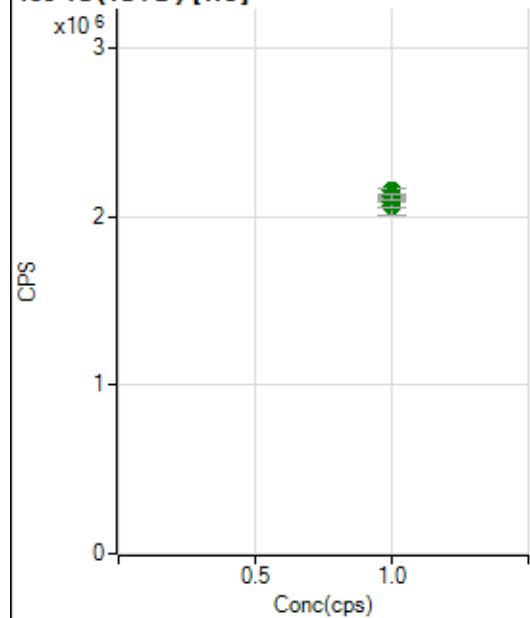
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3779980.86		A	3.9
2	☐	1.000		3825390.49		A	2.5
3	☐	1.000		3817897.25		A	1.7
4	☐	1.000		3813551.30		A	0.6
5	☐	1.000		3855579.68		A	1.0
6	☐	1.000		3841431.66		A	1.6
7	☐	1.000		3776302.29		A	0.4
8	☐	1.000		3744218.35		A	0.6

115 In (ISTD) [He]

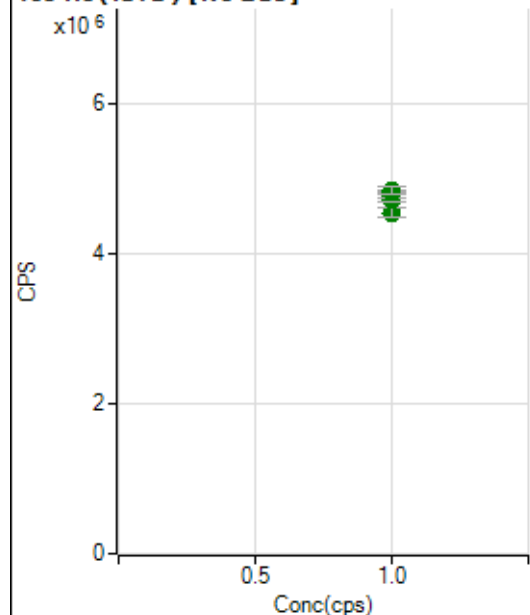
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		611733.88		P	1.9
2	☐	1.000		613731.84		P	2.2
3	☐	1.000		613867.66		P	1.0
4	☐	1.000		597903.87		P	5.3
5	☐	1.000		605428.11		P	0.8
6	☐	1.000		589106.40		P	0.5
7	☐	1.000		578228.11		P	4.5
8	☐	1.000		610822.47		P	0.8

159 Tb (ISTD) [No Gas]

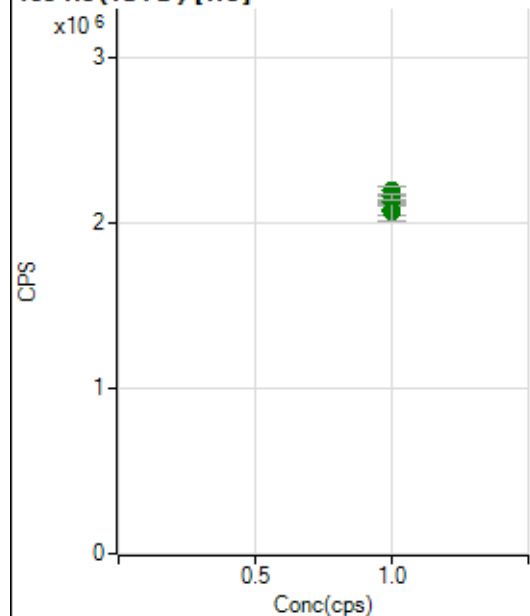
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4703779.51		A	3.6
2	☐	1.000		4811371.46		A	1.2
3	☐	1.000		4845883.61		A	0.5
4	☐	1.000		4847449.06		A	1.4
5	☐	1.000		4904161.35		A	1.8
6	☐	1.000		5023775.17		A	1.0
7	☐	1.000		4980438.54		A	0.5
8	☐	1.000		4891003.23		A	1.2

159 Tb (ISTD) [He]

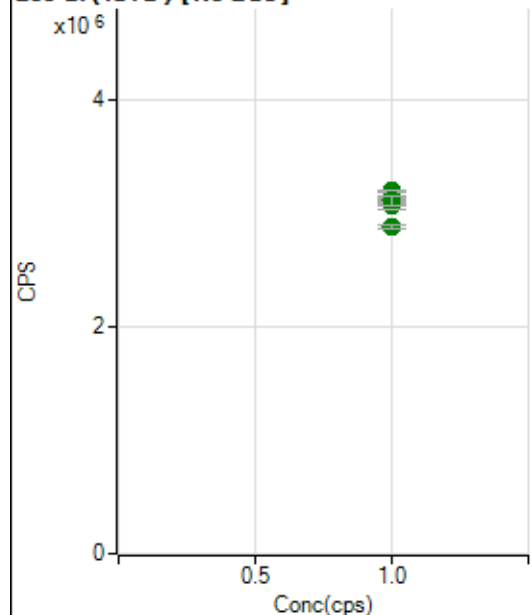
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2096150.12		A	0.8
2	☐	1.000		2115574.90		A	1.5
3	☐	1.000		2114912.05		A	2.0
4	☐	1.000		2064578.99		A	5.0
5	☐	1.000		2152266.25		A	1.5
6	☐	1.000		2099924.99		A	0.7
7	☐	1.000		2086760.40		A	3.4
8	☐	1.000		2116465.37		A	1.4

165 Ho (ISTD) [No Gas]

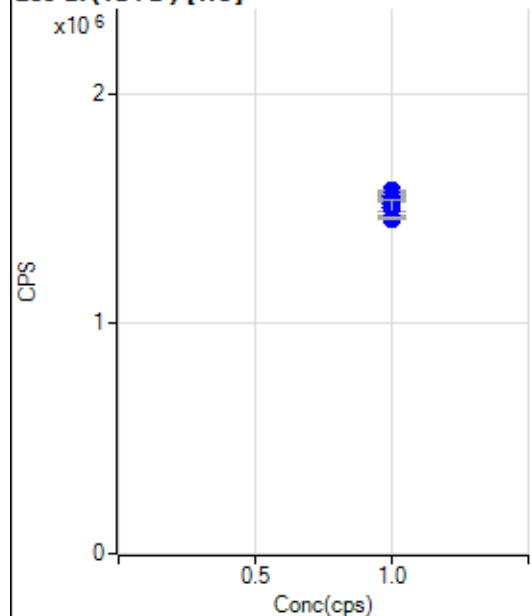
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4557845.24		A	2.5
2	☐	1.000		4724970.51		A	1.3
3	☐	1.000		4775127.97		A	1.0
4	☐	1.000		4797569.03		A	1.4
5	☐	1.000		4726749.19		A	1.1
6	☐	1.000		4830036.65		A	0.7
7	☐	1.000		4829602.45		A	0.7
8	☐	1.000		4847147.68		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2124173.06		A	0.5
2	☐	1.000		2137470.16		A	1.9
3	☐	1.000		2115474.97		A	1.6
4	☐	1.000		2080713.65		A	3.8
5	☐	1.000		2193270.83		A	2.1
6	☐	1.000		2122046.95		A	1.7
7	☐	1.000		2074781.65		A	5.7
8	☐	1.000		2160371.81		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3055617.42		A	1.7
2	☐	1.000		3124108.29		A	1.1
3	☐	1.000		3116283.91		A	1.1
4	☐	1.000		3061109.50		A	1.6
5	☐	1.000		3147060.16		A	1.9
6	☐	1.000		3191758.67		A	0.6
7	☐	1.000		3106224.92		A	2.4
8	☐	1.000		2871709.09		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1548764.37		P	1.3
2	☐	1.000		1547324.98		P	1.8
3	☐	1.000		1578000.60		P	0.7
4	☐	1.000		1525201.68		P	4.8
5	☐	1.000		1554426.90		P	1.2
6	☐	1.000		1540019.51		P	0.2
7	☐	1.000		1503693.50		P	4.3
8	☐	1.000		1458663.38		P	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8030823MS.b

Acq. Date-Time 2023-03-08 07:37:39

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		7895	78953.28			2.714	5.000
24		48444	484443.88			3.034	5.000
25		6657	66573.03			3.300	5.000
26		7620	76204.41			2.768	5.000
59		35847	358467.16			2.990	5.000
113		3433	34333.09			3.006	5.000
115		42574	425739.08			3.198	5.000
206		9976	99757.80			3.333	5.000
207		9027	90268.88			3.040	5.000
208		21629	216285.54			3.267	5.000
220		0	4.60			17.861	

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

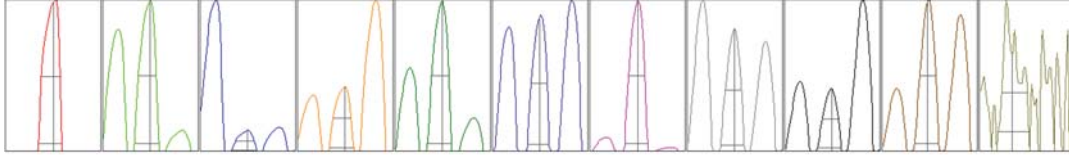
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7529	7987	8089	7951	7920
24	45829	49199	48906	49001	49285
25	6273	6769	6816	6690	6739
26	7254	7790	7651	7690	7717
59	33973	36375	35926	36476	36483
113	3249	3491	3473	3471	3482
115	40317	43923	42954	42507	43168
206	9391	10184	10070	10055	10178
207	8540	9207	9143	9134	9110
208	20370	22031	21891	21876	21976

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14253.16	9.05	8.90 - 9.10	
24	89791.24	24.00	23.90 - 24.10	
25	12129.58	25.00	24.90 - 25.10	
26	14025.43	26.00	25.90 - 26.10	
59	69882.12	59.00	58.90 - 59.10	
113	7075.77	113.00	112.90 - 113.10	
115	87604.53	115.05	114.90 - 115.10	
206	20251.56	206.00	205.90 - 206.10	
207	18152.58	207.00	206.90 - 207.10	
208	43605.97	207.95	207.90 - 208.10	
220	0.65	219.55	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.737	0.900	
24	0.56	0.778	0.900	
25	0.58	0.781	0.900	
26	0.57	0.777	0.900	
59	0.54	0.762	0.900	
113	0.51	0.683	0.900	
115	0.50	0.724	0.900	
206	0.50	0.738	0.900	
207	0.51	0.759	0.900	
208	0.50	0.766	0.900	
220	0.79	0.982		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	16.0 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2315 V	Pulse HV	1733 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7733	77334.71			0.746	
89		8079	80789.83			1.178	
205		6375	63753.57			1.760	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7774	7782	7639	7749	7723
89	8163	8132	7929	8130	8042
205	6380	6426	6234	6528	6309

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2315 V	Pulse HV	1733 V
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