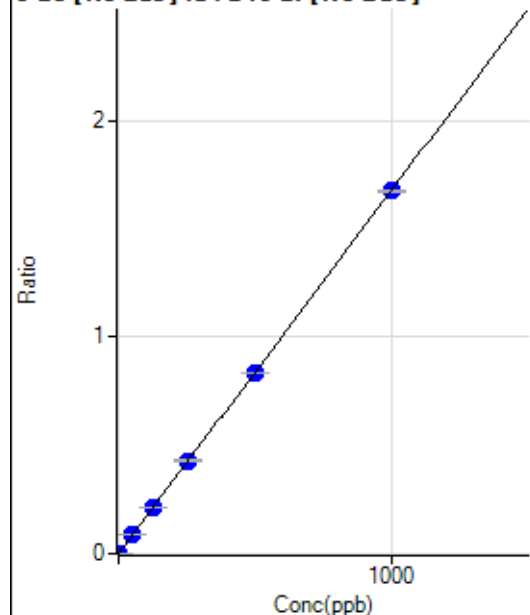


Batch Folder: D:\ICP-MS Data\P7022618- MS .b\
Analysis File: P7022618- MS .batch.bin
DA Date-Time:
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB P7022618- MS.D	S00	2018-02-26 13:44:07
2			
3	005CALS P7022618- MS.D	S02	2018-02-26 13:52:13
4	006CALS P7022618- MS.D	S03	2018-02-26 13:56:05
5	007CALS P7022618- MS.D	S04	2018-02-26 14:00:10
6	008CALS P7022618- MS.D	S05	2018-02-26 14:03:57
7	009CALS P7022618- MS.D	S06	2018-02-26 14:07:41
8	010CALS P7022618- MS.D	S07	2018-02-26 14:11:23
9	011CALS P7022618- MS.D	S08	2018-02-26 14:15:07

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	87.7
2	☐	0.100					
3	☐	1.000	0.928	725.97	0.0016	P	8.5
4	☐	50.000	51.691	41217.57	0.0868	P	1.0
5	☐	125.000	127.477	105462.13	0.2141	P	0.4
6	☐	250.000	255.236	211077.37	0.4287	P	1.3
7	☐	500.000	499.594	407249.25	0.8390	P	0.2
8	☐	1000.000	998.500	790550.52	1.6768	P	0.5
9	☐			100.00	0.0002	P	6.1

$$y = 0.0017 * x + 3.6791E-005$$

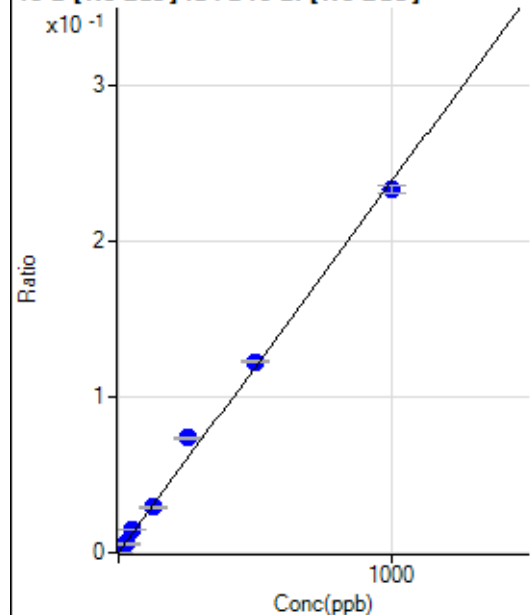
$$R = 1.0000$$

$$DL = 0.05765$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69.45	0.0002	P	29.9
2	☐	2.500					
3	☐	25.000	23.141	2578.10	0.0057	P	11.5
4	☐	50.000	62.846	7176.99	0.0151	P	4.1
5	☐	125.000	121.790	14365.68	0.0292	P	4.9
6	☐	250.000	308.818	36302.78	0.0737	P	0.6
7	☐	500.000	514.334	59546.08	0.1227	P	1.1
8	☐	1000.000	977.934	109906.22	0.2331	P	2.0
9	☐			1264.00	0.0030	P	11.6

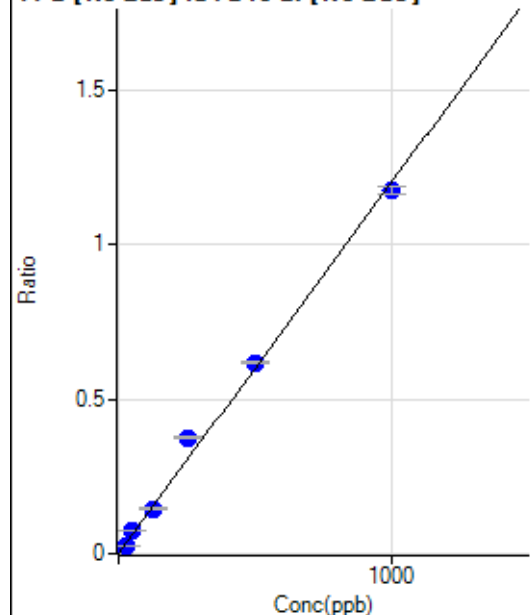
$$y = 2.3822E-004 * x + 1.5347E-004$$

$$R = 0.9977$$

$$DL = 0.5771$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	288.90	0.0006	P	12.9
2	☐	2.500					
3	☐	25.000	21.636	12122.05	0.0266	P	3.7
4	☐	50.000	61.253	35233.65	0.0742	P	4.4
5	☐	125.000	120.775	71779.47	0.1457	P	1.5
6	☐	250.000	311.823	184776.31	0.3752	P	1.4
7	☐	500.000	514.426	300269.56	0.6186	P	1.4
8	☐	1000.000	977.381	553844.40	1.1748	P	2.1
9	☐			6682.27	0.0156	P	8.2

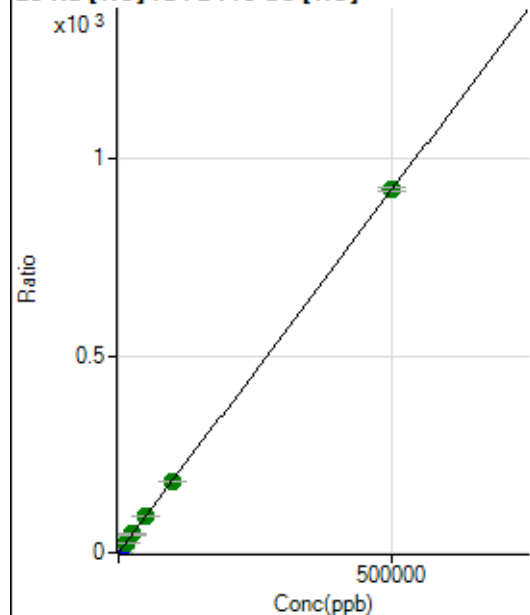
$$y = 0.0012 * x + 6.3895E-004$$

$$R = 0.9974$$

$$DL = 0.2056$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16854.59	0.0590	P	4.3
2	☐	50.000					
3	☐	500.000	462.832	255841.60	0.9120	P	1.8
4	☐	5000.000	5165.063	2656174.12	9.5778	P	0.4
5	☐	12500.000	12790.654	6420155.96	23.6312	A	0.2
6	☐	25000.000	25326.093	12667885.61	46.7331	A	1.3
7	☐	50000.000	49627.026	25060391.18	91.5178	A	0.6
8	☐	100000.00	98421.334	50176454.59	181.4420	A	0.2
9	☐	500000.00	500327.84	268562636.5	922.1249	A	1.0

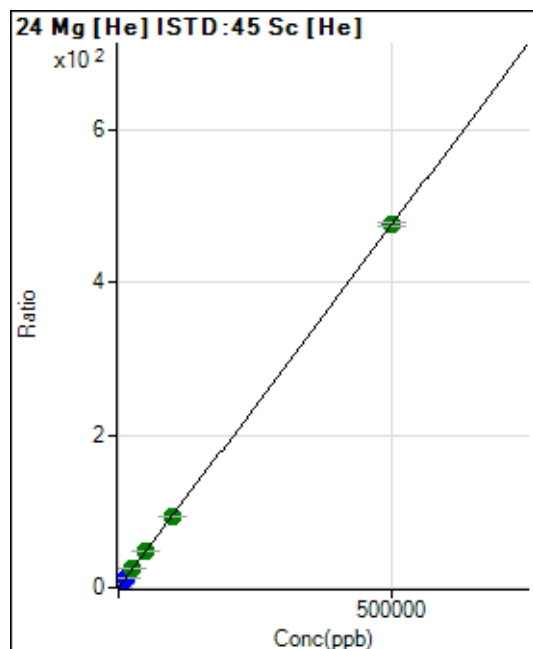
$$y = 0.0018 * x + 0.0590$$

$$R = 1.0000$$

$$DL = 4.165$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	186.12	0.0007	P	14.3
2	☐	50.000					
3	☐	500.000	472.077	126112.61	0.4495	P	1.5
4	☐	5000.000	5207.981	1373560.57	4.9528	P	0.2
5	☐	12500.000	13095.034	3383084.41	12.4524	P	0.5
6	☐	25000.000	25691.510	6622361.78	24.4301	A	1.1
7	☐	50000.000	50195.482	13070011.75	47.7303	A	0.6
8	☐	100000.00	98973.166	26025705.79	94.1117	A	0.4
9	☐	500000.00	500134.31	138505568.3	475.5657	A	1.0

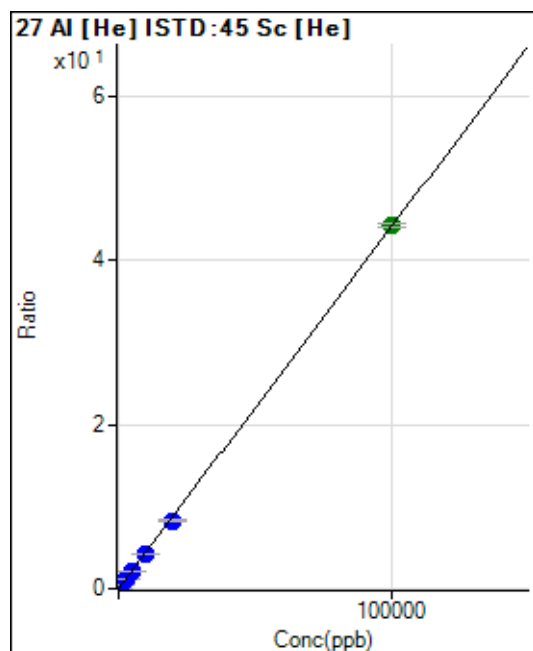
$$y = 9.5087\text{E-}004 * x + 6.5180\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2936$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.11	0.0002	P	20.9
2	☐	2.000					
3	☐	20.000	18.859	2391.96	0.0085	P	6.4
4	☐	1000.000	987.040	120680.83	0.4352	P	1.2
5	☐	2500.000	2453.351	293763.45	1.0813	P	0.8
6	☐	5000.000	4855.817	580106.61	2.1400	P	0.8
7	☐	10000.000	9531.984	1150257.63	4.2005	P	0.5
8	☐	20000.000	18858.698	2298194.63	8.3104	P	0.4
9	☐	100000.00	100283.56	12870430.84	44.1908	A	1.2

$$y = 4.4066\text{E-}004 * x + 2.1405\text{E-}004$$

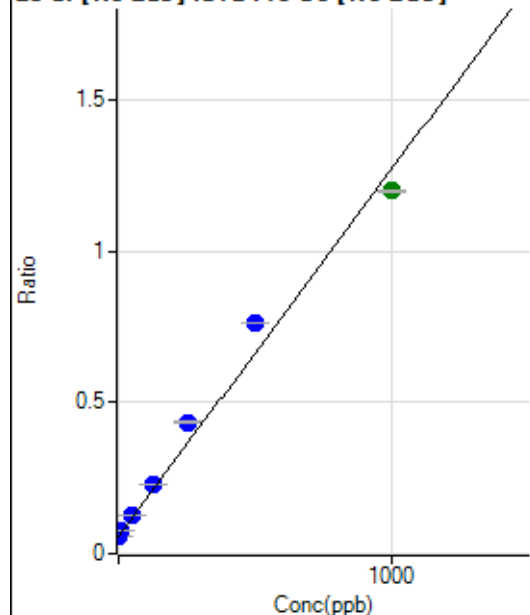
$$R = 0.9999$$

$$DL = 0.3043$$

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	228358.07	0.0572	P	0.8
2	☐	1.000					
3	☐	10.000	13.806	292468.49	0.0739	P	2.1
4	☐	50.000	59.567	510943.83	0.1294	P	0.8
5	☐	125.000	142.398	887958.67	0.2298	P	0.6
6	☐	250.000	311.134	1665730.35	0.4344	P	0.8
7	☐	500.000	581.494	2915481.10	0.7622	P	0.8
8	☐	1000.000	941.279	4605075.84	1.1984	A	0.5
9	☐			352825.14	0.0908	P	0.6

$$y = 0.0012 * x + 0.0572$$

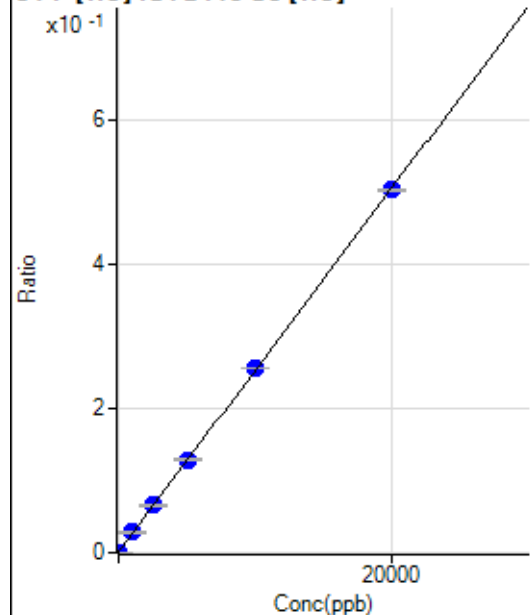
$$R = 0.9925$$

$$DL = 1.136$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-2.451	244.46	0.0009	P	14.3
2	☐	0.000					
3	☐	0.000	2.451	275.01	0.0010	P	26.0
4	☐	1000.000	1078.142	7780.14	0.0280	P	4.9
5	☐	2500.000	2570.889	17825.22	0.0656	P	2.0
6	☐	5000.000	5074.108	34866.66	0.1286	P	0.8
7	☐	10000.000	10096.252	69824.85	0.2550	P	0.4
8	☐	20000.000	19920.579	138882.07	0.5022	P	0.6
9	☐			305.57	0.0010	P	11.2

$$y = 2.5164E-005 * x + 9.1793E-004$$

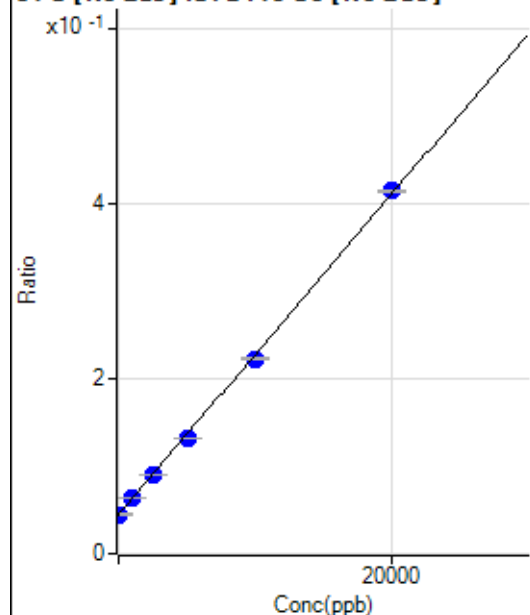
$$R = 1.0000$$

$$DL = 22.5$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-13.241	177885.57	0.0445	P	0.7
2	☐	0.000					
3	☐	0.000	13.241	178138.25	0.0450	P	2.1
4	☐	1000.000	1061.461	253650.13	0.0642	P	0.7
5	☐	2500.000	2452.361	346710.78	0.0897	P	0.6
6	☐	5000.000	4757.852	506151.75	0.1320	P	1.6
7	☐	10000.000	9728.423	853545.14	0.2231	P	0.5
8	☐	20000.000	20199.207	1595188.50	0.4151	P	0.2
9	☐			154271.32	0.0397	P	1.7

$$y = 1.8336E-005 * x + 0.0448$$

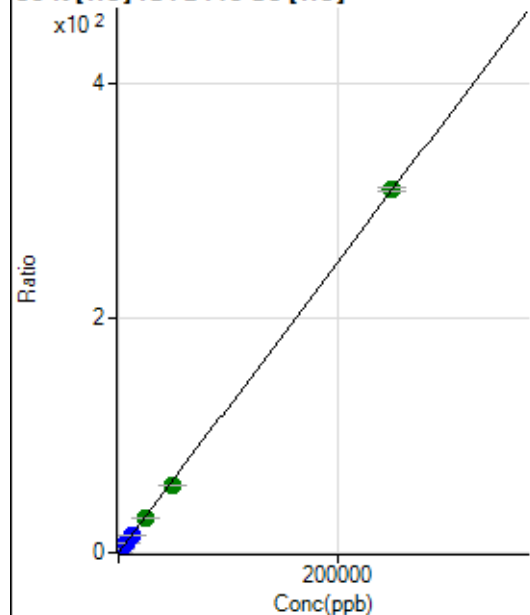
$$R = 0.9998$$

$$DL = 102.3$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28472.60	0.0997	P	1.6
2	☐	50.000					
3	☐	500.000	451.167	184145.13	0.6564	P	0.9
4	☐	2500.000	2445.417	864371.32	3.1168	P	0.5
5	☐	6250.000	6103.827	2073054.19	7.6305	P	0.4
6	☐	12500.000	12322.733	4148315.80	15.3033	P	1.2
7	☐	25000.000	23708.394	8037171.10	29.3507	A	0.5
8	☐	50000.000	46896.099	16028240.29	57.9593	A	0.3
9	☐	250000.00	250763.10	90136865.21	309.4871	A	1.0

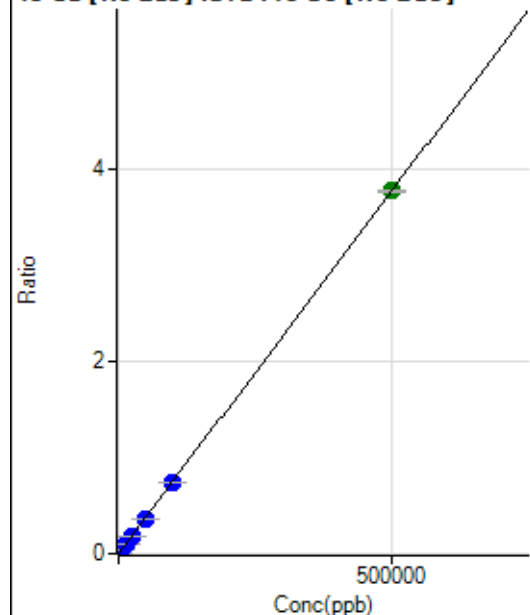
$$y = 0.0012 * x + 0.0997$$

$$R = 0.9999$$

$$DL = 3.823$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	688.93	0.0002	P	8.2
2	☐	50.000					
3	☐	500.000	429.181	13467.76	0.0034	P	3.0
4	☐	5000.000	4858.688	145117.44	0.0367	P	1.3
5	☐	12500.000	11997.917	349628.14	0.0905	P	0.4
6	☐	25000.000	24326.768	702819.52	0.1833	P	1.2
7	☐	50000.000	48260.994	1390241.73	0.3635	P	0.3
8	☐	100000.00	97095.161	2809105.03	0.7311	P	0.2
9	☐	500000.00	500802.56	14643256.57	3.7699	A	0.4

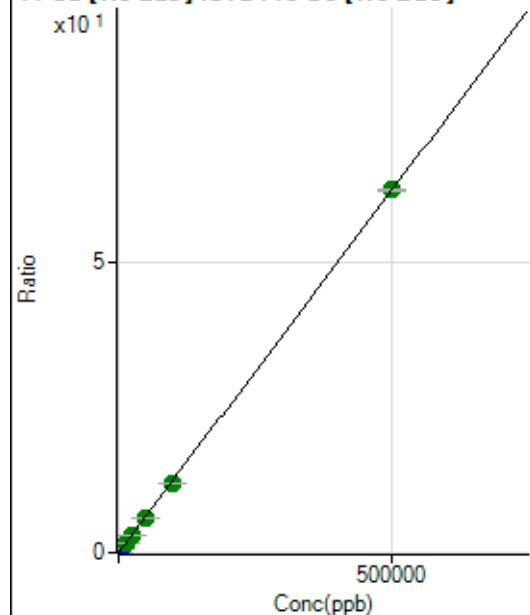
$$y = 7.5275\text{E-}006 * x + 1.7244\text{E-}004$$

$$R = 1.0000$$

$$DL = 5.61$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30805.19	0.0077	P	2.7
2	☐	50.000					
3	☐	500.000	427.478	241640.48	0.0611	P	2.1
4	☐	5000.000	4823.670	2407522.11	0.6096	P	0.1
5	☐	12500.000	11916.638	5775218.05	1.4947	A	0.3
6	☐	25000.000	24045.284	11534473.26	3.0081	A	1.0
7	☐	50000.000	47861.066	22873122.39	5.9798	A	0.7
8	☐	100000.00	95864.607	45994197.21	11.9697	A	0.3
9	☐	500000.00	501105.12	242902516.5	62.5356	A	0.4

$$y = 1.2478\text{E-}004 * x + 0.0077$$

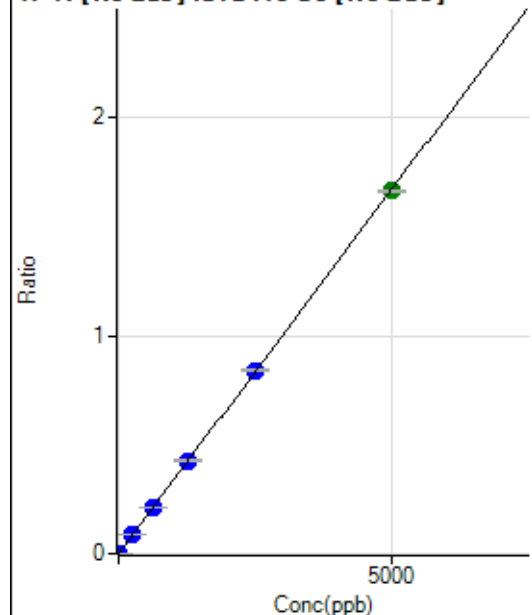
$$R = 1.0000$$

$$DL = 4.916$$

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	91.67	0.0000	P	47.3
2	☐	0.500					
3	☐	5.000	4.531	6076.50	0.0015	P	3.4
4	☐	250.000	256.464	337995.80	0.0856	P	0.4
5	☐	625.000	622.565	802607.39	0.2077	P	0.4
6	☐	1250.000	1279.403	1636805.06	0.4269	P	0.8
7	☐	2500.000	2519.816	3215651.38	0.8407	P	0.4
8	☐	5000.000	4982.723	6387641.50	1.6623	A	0.3
9	☐			2097.47	0.0005	P	9.8

$$y = 3.3362E-004 * x + 2.2953E-005$$

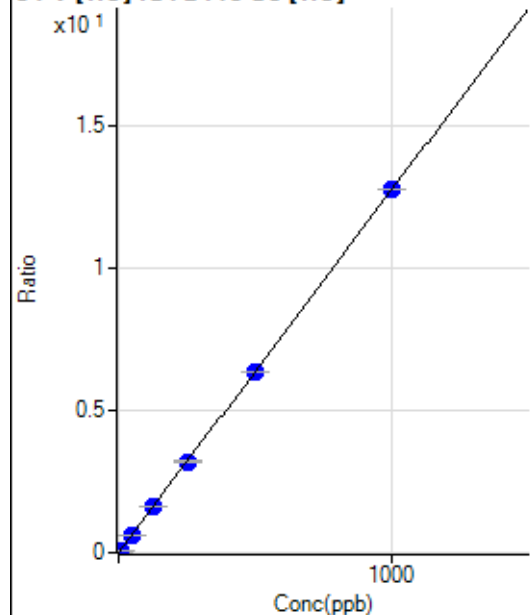
$$R = 1.0000$$

$$DL = 0.09766$$

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	27.78	0.0001	P	34.6
2	☐	0.500					
3	☐	5.000	4.555	16276.95	0.0580	P	2.1
4	☐	50.000	50.143	176859.73	0.6377	P	0.1
5	☐	125.000	126.420	436773.44	1.6077	P	0.4
6	☐	250.000	250.633	863953.40	3.1872	P	1.2
7	☐	500.000	498.125	1734541.71	6.3343	P	0.3
8	☐	1000.000	1000.597	3518658.53	12.7237	P	0.1
9	☐			1038.94	0.0036	P	6.3

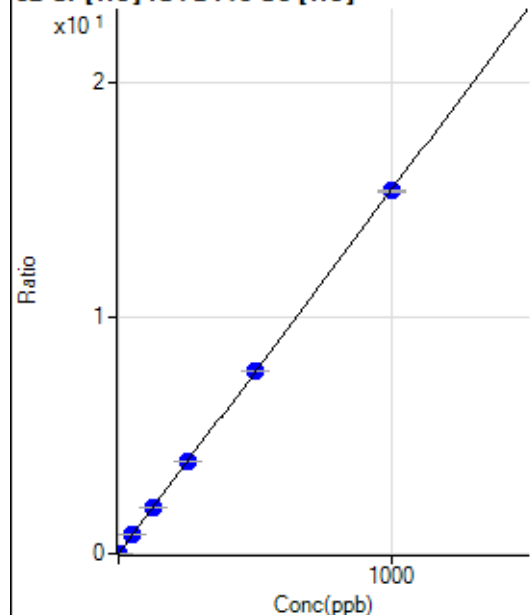
$$y = 0.0127 * x + 9.7276E-005$$

$$R = 1.0000$$

$$DL = 0.007941$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2216.87	0.0078	P	2.5
2	☐	0.200					
3	☐	2.000	1.983	10758.54	0.0384	P	3.4
4	☐	50.000	51.012	220346.52	0.7945	P	0.6
5	☐	125.000	128.090	538808.44	1.9833	P	0.6
6	☐	250.000	254.799	1067369.43	3.9375	P	0.9
7	☐	500.000	501.904	2121758.49	7.7485	P	0.8
8	☐	1000.000	997.412	4256179.17	15.3906	P	0.3
9	☐			108543.35	0.3727	P	0.7

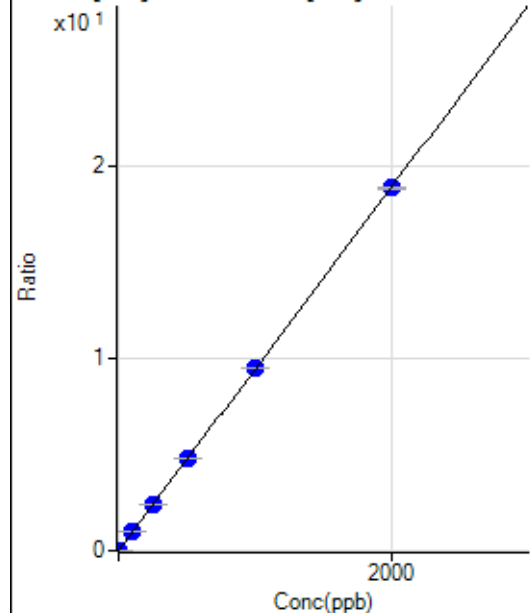
$$y = 0.0154 * x + 0.0078$$

$$R = 1.0000$$

$$DL = 0.0372$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0003	P	7.3
2	☐	0.100					
3	☐	1.000	1.033	2815.87	0.0100	P	2.3
4	☐	100.000	103.099	269992.39	0.9735	P	0.1
5	☐	250.000	255.124	654393.95	2.4087	P	0.3
6	☐	500.000	509.320	1303408.17	4.8083	P	1.1
7	☐	1000.000	1001.360	2588609.86	9.4532	P	0.3
8	☐	2000.000	1996.194	5211365.93	18.8445	P	0.7
9	☐			19966.02	0.0686	P	0.3

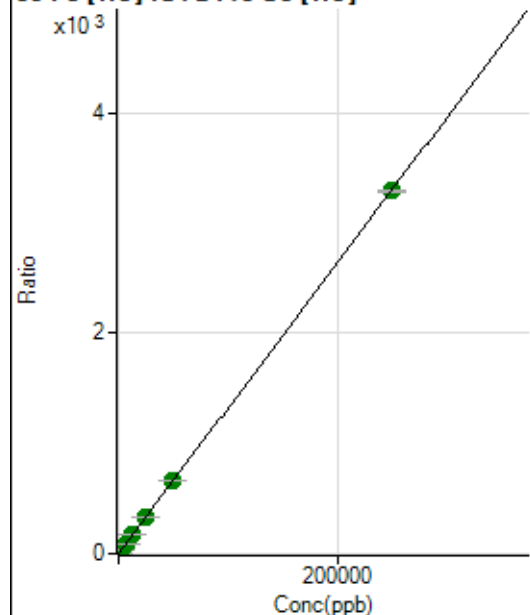
$$y = 0.0094 * x + 2.8021E-004$$

$$R = 1.0000$$

$$DL = 0.006527$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4958.38	0.0174	P	2.4
2	☐	5.000					
3	☐	50.000	48.516	184158.05	0.6565	P	1.8
4	☐	2500.000	2634.979	9631270.93	34.7280	A	0.5
5	☐	6250.000	6580.663	23555979.00	86.7045	A	0.3
6	☐	12500.000	13049.685	46601375.58	171.9210	A	1.6
7	☐	25000.000	25622.716	92430659.47	337.5456	A	0.6
8	☐	50000.000	50414.220	183658280.0	664.1243	A	0.2
9	☐	250000.00	249817.78	958435999.2	3,290.869	A	0.7

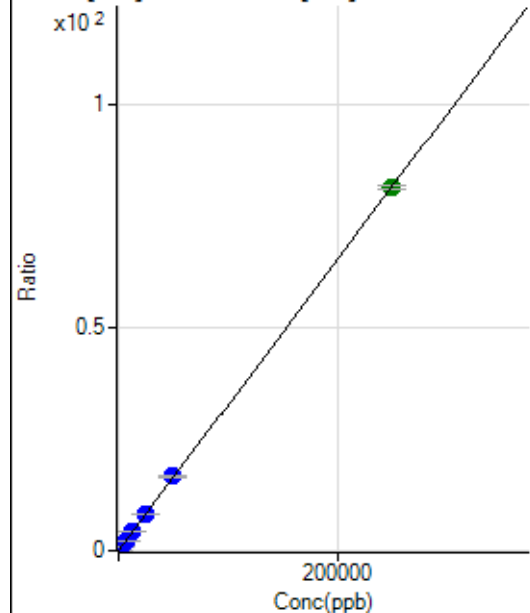
$$y = 0.0132 * x + 0.0174$$

$$R = 1.0000$$

$$DL = 0.0968$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	268.53	0.0009	P	10.4
2	☐	5.000					
3	☐	50.000	48.479	4699.04	0.0168	P	4.5
4	☐	2500.000	2621.641	237437.22	0.8561	P	1.0
5	☐	6250.000	6544.186	580219.41	2.1357	P	0.1
6	☐	12500.000	13073.299	1156236.69	4.2654	P	1.3
7	☐	25000.000	25657.024	2292057.46	8.3703	P	0.5
8	☐	50000.000	50968.487	4598019.95	16.6269	P	0.6
9	☐	250000.00	249703.36	23723106.78	81.4541	A	1.0

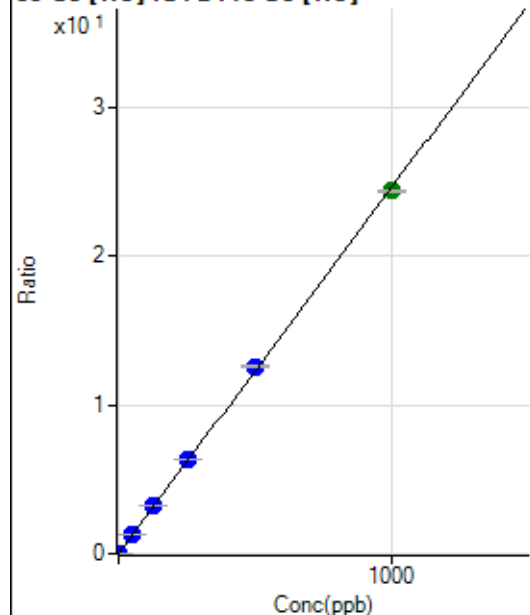
$$y = 3.2620E-004 * x + 9.4049E-004$$

$$R = 1.0000$$

$$DL = 0.9022$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0009	P	2.2
2	☐	0.100					
3	☐	1.000	0.995	7114.05	0.0254	P	2.0
4	☐	50.000	51.997	354870.29	1.2796	P	0.5
5	☐	125.000	131.239	877088.46	3.2284	P	0.8
6	☐	250.000	257.558	1717274.02	6.3350	P	1.0
7	☐	500.000	511.495	3444787.38	12.5800	P	0.9
8	☐	1000.000	991.483	6743259.83	24.3843	A	0.3
9	☐			10080.29	0.0346	P	1.5

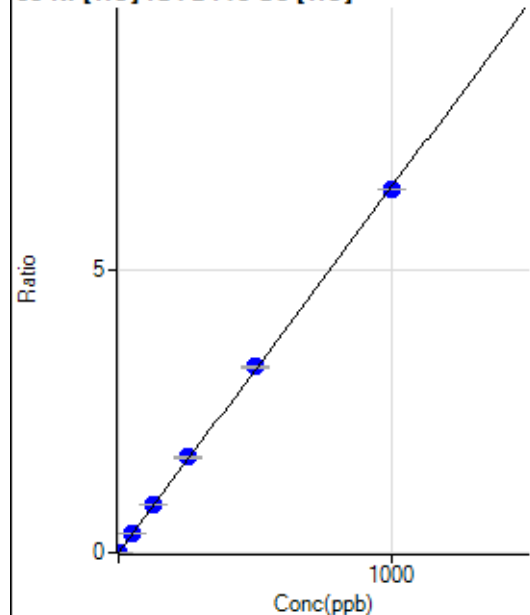
$$y = 0.0246 * x + 8.8727E-004$$

$$R = 0.9999$$

$$DL = 0.002432$$

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	74.45	0.0003	P	11.4
2	☐	0.100					
3	☐	1.000	1.033	1944.61	0.0069	P	4.3
4	☐	50.000	52.989	95001.88	0.3426	P	0.9
5	☐	125.000	132.495	232600.14	0.8562	P	1.0
6	☐	250.000	261.112	457322.46	1.6870	P	0.8
7	☐	500.000	508.159	898985.52	3.2829	P	0.4
8	☐	1000.000	992.056	1772327.94	6.4089	P	0.2
9	☐			27474.85	0.0943	P	0.3

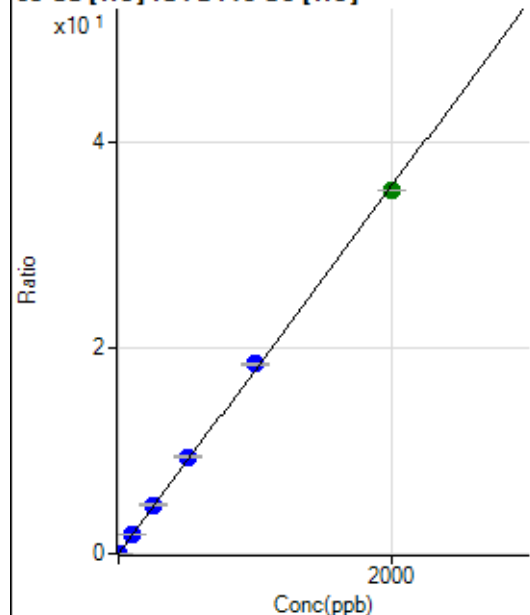
$$y = 0.0065 * x + 2.6076E-004$$

$$R = 0.9999$$

$$DL = 0.01377$$

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	1853.48	0.0065	P	1.1
2	☐	0.200					
3	☐	2.000	1.997	11813.81	0.0421	P	4.0
4	☐	100.000	106.682	529623.94	1.9097	P	0.4
5	☐	250.000	265.673	1289389.10	4.7461	P	1.0
6	☐	500.000	526.106	2545953.48	9.3922	P	1.3
7	☐	1000.000	1032.551	5046042.04	18.4272	P	0.3
8	☐	2000.000	1974.905	9745019.78	35.2388	A	0.1
9	☐			16404.92	0.0563	P	1.5

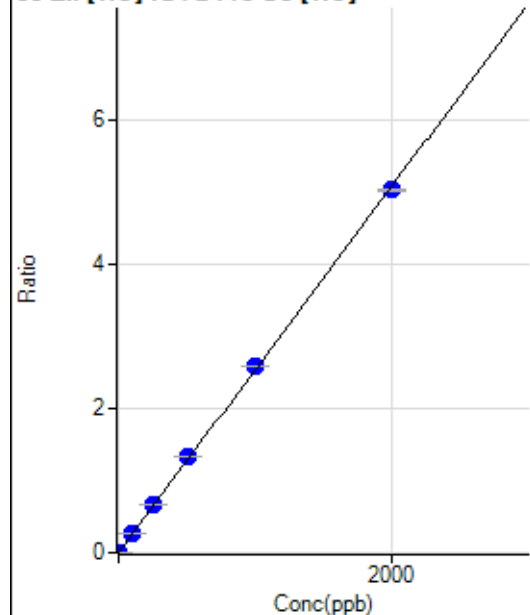
$$y = 0.0178 * x + 0.0065$$

$$R = 0.9997$$

$$DL = 0.01205$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	265.56	0.0009	P	5.7
2	☐	0.200					
3	☐	2.000	2.173	1810.15	0.0065	P	1.0
4	☐	100.000	106.000	74975.69	0.2703	P	1.0
5	☐	250.000	264.313	182758.76	0.6727	P	0.8
6	☐	500.000	523.184	360715.71	1.3307	P	0.8
7	☐	1000.000	1018.612	709193.66	2.5898	P	0.3
8	☐	2000.000	1982.808	1393901.04	5.0404	P	0.4
9	☐			5116.53	0.0176	P	1.4

$$y = 0.0025 * x + 9.3013E-004$$

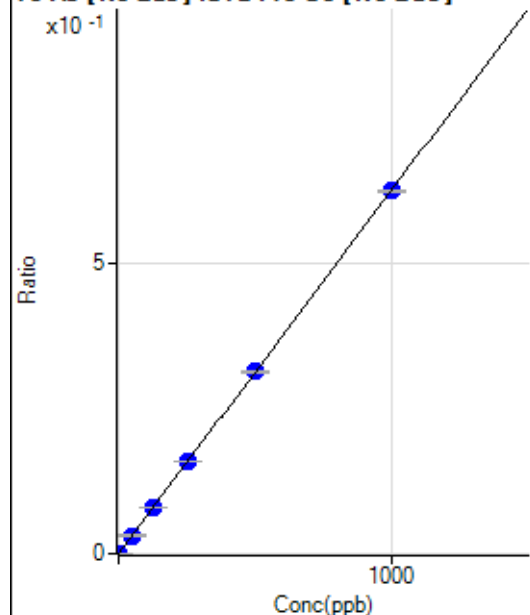
$$R = 0.9999$$

$$DL = 0.06309$$

Weight: <None>

Min Conc: 0

75 As [No Gas] ISTD:45 Sc [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	10.9
2	☐	0.100					
3	☐	1.000	0.940	2397.52	0.0006	P	8.7
4	☐	50.000	50.228	124078.75	0.0314	P	1.1
5	☐	125.000	125.548	303326.39	0.0785	P	0.3
6	☐	250.000	254.624	610416.69	0.1592	P	1.2
7	☐	500.000	500.808	1197591.29	0.3131	P	0.4
8	☐	1000.000	998.360	2398239.05	0.6241	P	0.5
9	☐			1238.99	0.0003	P	10.2

$$y = 6.2513\text{E-}004 * x + 1.8768\text{E-}005$$

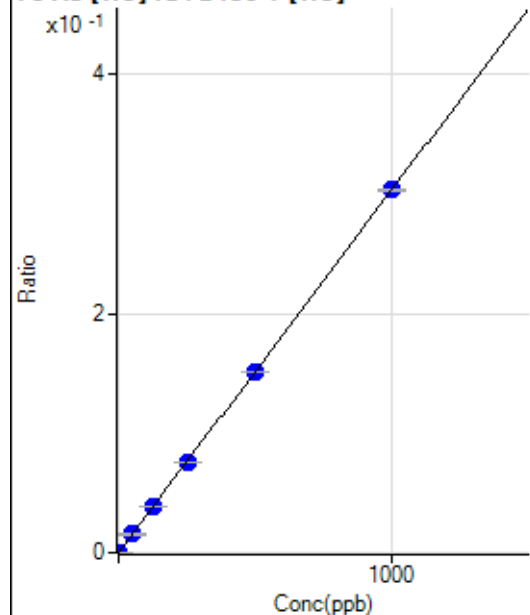
$$R = 1.0000$$

$$DL = 0.009777$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.05	0.0000	P	57.0
2	☐	0.100					
3	☐	1.000	0.936	509.89	0.0003	P	6.0
4	☐	50.000	50.670	26710.39	0.0154	P	1.3
5	☐	125.000	125.593	65490.82	0.0381	P	0.6
6	☐	250.000	250.219	130689.72	0.0758	P	0.3
7	☐	500.000	497.734	260036.17	0.1508	P	0.2
8	☐	1000.000	1000.971	522434.85	0.3032	P	0.4
9	☐			283.34	0.0002	P	10.2

$$y = 3.0295\text{E-}004 * x + 8.9717\text{E-}006$$

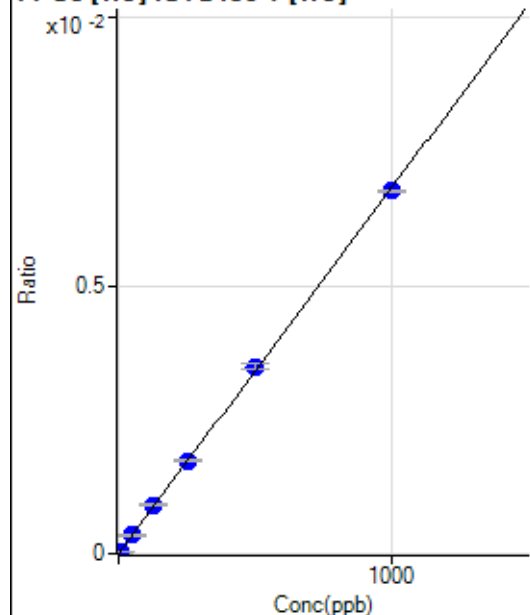
$$R = 1.0000$$

$$DL = 0.05064$$

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	☐	0.500					
3	☐	5.000	4.971	60.00	0.0000	P	40.4
4	☐	50.000	50.497	600.02	0.0003	P	5.7
5	☐	125.000	133.422	1566.78	0.0009	P	4.3
6	☐	250.000	253.498	2981.47	0.0017	P	2.4
7	☐	500.000	511.691	6019.13	0.0035	P	3.1
8	☐	1000.000	992.202	11659.29	0.0068	P	0.5
9	☐			12.22	0.0000	P	103.

$$y = 6.8203\text{E-}006 * x + 6.1825\text{E-}007$$

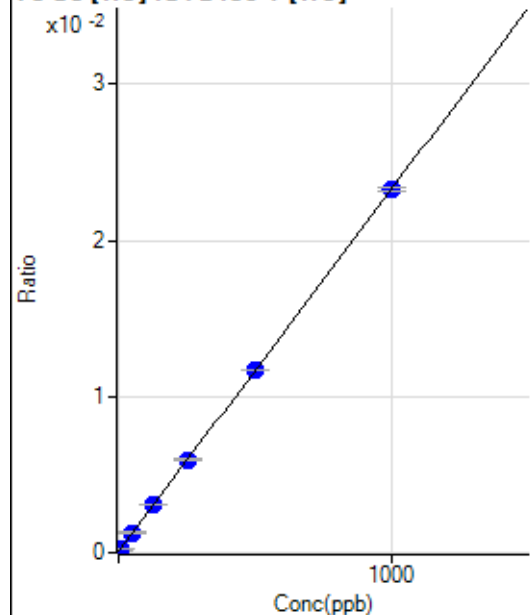
$$R = 0.9999$$

$$DL = 0.471$$

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	143.83	0.0001	P	6.1
2	☐	0.500					
3	☐	5.000	5.049	344.45	0.0002	P	2.8
4	☐	50.000	51.149	2203.89	0.0013	P	4.5
5	☐	125.000	130.627	5355.35	0.0031	P	1.3
6	☐	250.000	252.727	10248.75	0.0059	P	2.1
7	☐	500.000	501.011	20188.80	0.0117	P	0.8
8	☐	1000.000	998.052	40043.93	0.0232	P	0.9
9	☐			185.19	0.0001	P	12.5

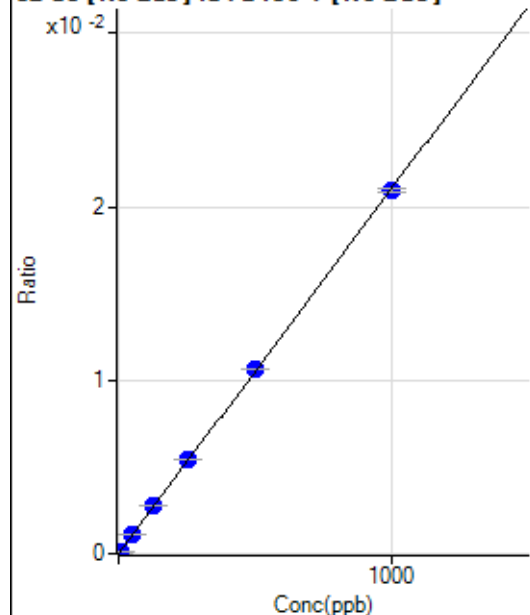
$$y = 2.3208\text{E-}005 * x + 8.0332\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.6312$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.83	0.0000	P	328.
2	☐	0.500					
3	☐	5.000	5.106	841.13	0.0001	P	1.0
4	☐	50.000	52.312	8607.21	0.0011	P	0.4
5	☐	125.000	130.517	21402.78	0.0027	P	0.9
6	☐	250.000	259.167	42470.41	0.0055	P	0.4
7	☐	500.000	505.077	83022.88	0.0106	P	0.3
8	☐	1000.000	994.364	164463.41	0.0209	P	1.2
9	☐			218.15	0.0000	P	10.1

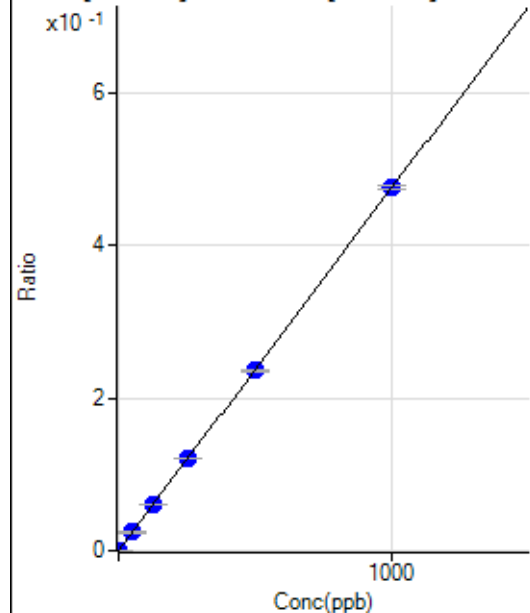
$$y = 2.1040\text{E-}005 * x + 8.4091\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.3938$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1019.52	0.0001	P	11.5
2	☐	0.100					
3	☐	1.000	0.890	4259.15	0.0005	P	3.6
4	☐	50.000	50.212	187350.77	0.0240	P	1.0
5	☐	125.000	125.186	464295.96	0.0596	P	0.7
6	☐	250.000	253.239	937740.13	0.1204	P	0.8
7	☐	500.000	496.985	1845095.00	0.2362	P	0.7
8	☐	1000.000	1000.664	3737320.83	0.4754	P	0.9
9	☐			123362.69	0.0165	P	0.7

$$y = 4.7499\text{E-}004 * x + 1.2574\text{E-}004$$

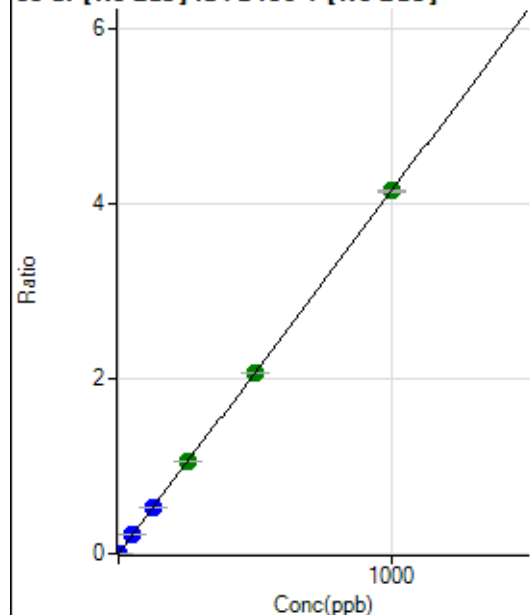
$$R = 1.0000$$

$$DL = 0.09129$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.23	0.0000	P	26.3
2	☐	0.100					
3	☐	1.000	0.940	30444.21	0.0039	P	0.6
4	☐	50.000	50.516	1639028.09	0.2097	P	0.5
5	☐	125.000	126.612	4096123.44	0.5257	P	0.6
6	☐	250.000	252.410	8161318.33	1.0480	A	0.4
7	☐	500.000	498.374	16164460.43	2.0692	A	0.6
8	☐	1000.000	999.983	32637406.29	4.1518	A	0.5
9	☐			1066941.06	0.1427	P	0.3

$$y = 0.0042 * x + 1.8189E-005$$

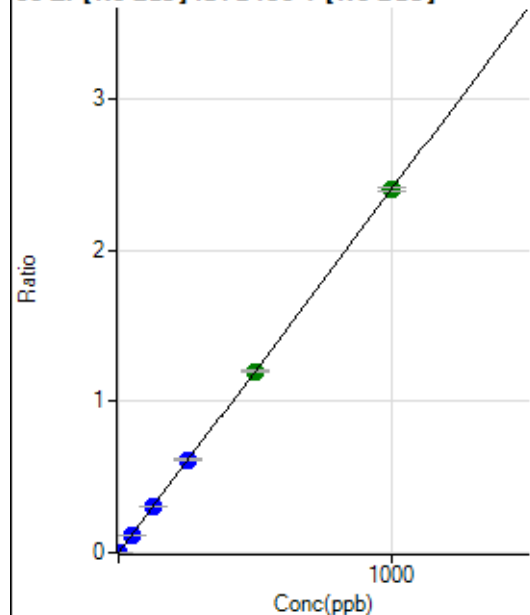
$$R = 1.0000$$

$$DL = 0.003457$$

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	591.71	0.0001	P	9.1
2	☐	0.100					
3	☐	1.000	0.884	17049.68	0.0022	P	3.4
4	☐	50.000	49.182	922934.93	0.1181	P	0.8
5	☐	125.000	125.140	2340663.66	0.3004	P	0.6
6	☐	250.000	255.657	4778542.86	0.6136	P	1.0
7	☐	500.000	499.825	9371389.45	1.1996	A	0.2
8	☐	1000.000	998.696	18841446.60	2.3969	A	1.0
9	☐			5845.89	0.0008	P	2.0

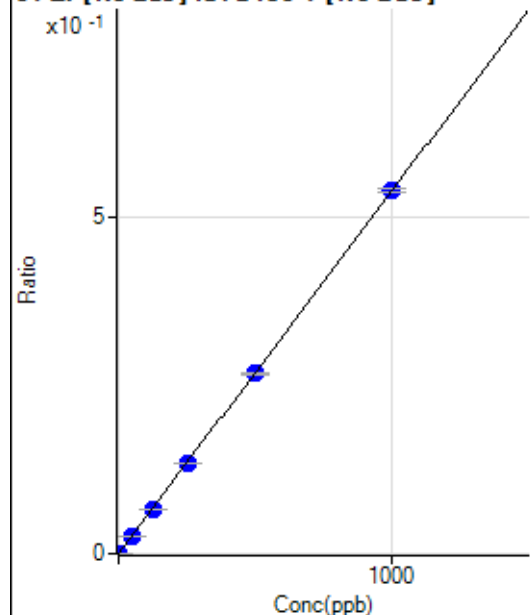
$$y = 0.0024 * x + 7.2959E-005$$

$$R = 1.0000$$

$$DL = 0.008299$$

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	141.67	0.0000	P	15.0
2	☐	0.100					
3	☐	1.000	0.830	3614.51	0.0005	P	2.4
4	☐	50.000	49.238	207759.46	0.0266	P	1.1
5	☐	125.000	123.469	519255.75	0.0666	P	0.6
6	☐	250.000	249.744	1049569.89	0.1348	P	1.5
7	☐	500.000	497.250	2096227.02	0.2683	P	0.5
8	☐	1000.000	1001.669	4248949.18	0.5405	P	1.0
9	☐			1419.57	0.0002	P	5.1

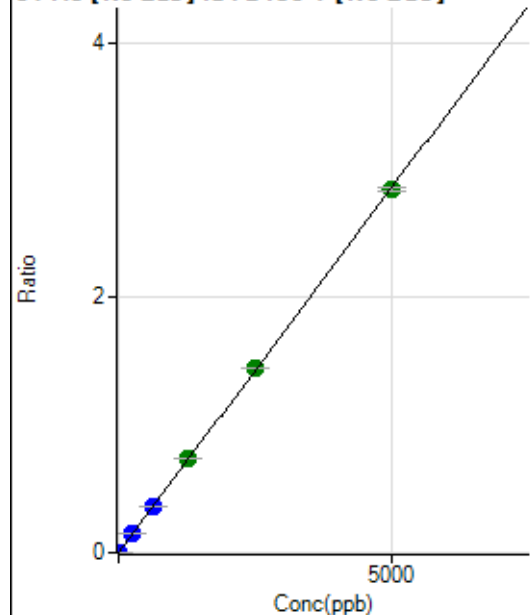
$$y = 5.3960\text{E-}004 * x + 1.7466\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01453$$

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	255.57	0.0000	P	14.2
2	☐	0.500					
3	☐	5.000	4.429	19920.12	0.0026	P	2.0
4	☐	250.000	261.144	1167241.61	0.1494	P	0.7
5	☐	625.000	628.220	2799562.15	0.3593	P	0.7
6	☐	1250.000	1295.555	5770019.70	0.7409	A	1.1
7	☐	2500.000	2527.950	11294010.15	1.4457	A	0.3
8	☐	5000.000	4973.677	22359298.59	2.8444	A	1.1
9	☐			20501.50	0.0027	P	3.1

$$y = 5.7188\text{E-}004 * x + 3.1513\text{E-}005$$

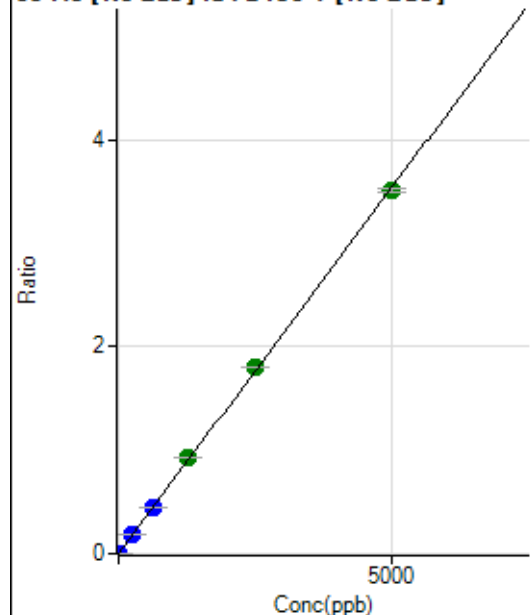
$$R = 0.9999$$

$$DL = 0.02354$$

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	183.34	0.0000	P	23.8
2	☐	0.500					
3	☐	5.000	4.464	24666.70	0.0032	P	4.3
4	☐	250.000	265.859	1467695.25	0.1878	P	0.3
5	☐	625.000	627.829	3455797.43	0.4435	P	0.8
6	☐	1250.000	1312.188	7218666.48	0.9270	A	1.0
7	☐	2500.000	2545.286	14046220.28	1.7980	A	0.4
8	☐	5000.000	4960.664	27546239.16	3.5042	A	1.2
9	☐			33278.82	0.0045	P	1.4

$$y = 7.0640\text{E-}004 * x + 2.2609\text{E-}005$$

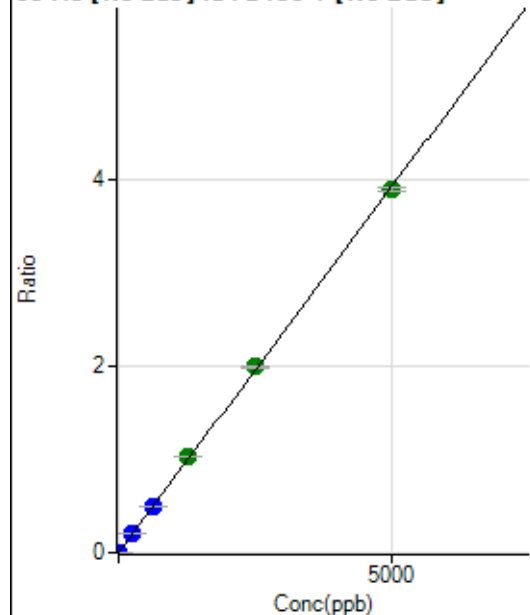
$$R = 0.9998$$

$$DL = 0.02289$$

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	183.34	0.0000	P	16.1
2	☐	0.500					
3	☐	5.000	4.484	27416.18	0.0035	P	0.7
4	☐	250.000	264.842	1618757.18	0.2072	P	0.1
5	☐	625.000	627.124	3821687.58	0.4905	P	1.4
6	☐	1250.000	1309.328	7974864.76	1.0240	A	0.4
7	☐	2500.000	2544.345	15545605.21	1.9900	A	0.5
8	☐	5000.000	4961.989	30506206.24	3.8808	A	1.2
9	☐			45147.66	0.0060	P	2.1

$$y = 7.8210\text{E-}004 * x + 2.2611\text{E-}005$$

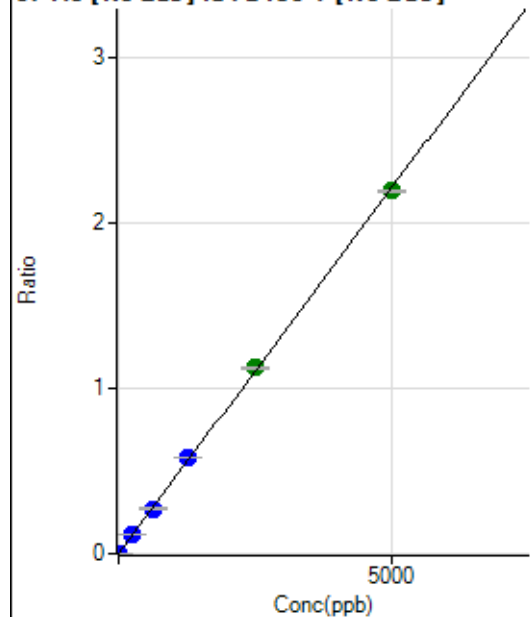
$$R = 0.9999$$

$$DL = 0.01398$$

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	116.67	0.0000	P	19.8
2	☐	0.500					
3	☐	5.000	4.428	15308.71	0.0020	P	2.0
4	☐	250.000	263.588	910136.49	0.1165	P	0.3
5	☐	625.000	618.038	2127672.29	0.2731	P	1.4
6	☐	1250.000	1322.275	4549632.96	0.5842	P	0.6
7	☐	2500.000	2539.430	8765037.44	1.1220	A	0.8
8	☐	5000.000	4962.408	17235296.04	2.1925	A	0.8
9	☐			20376.42	0.0027	P	5.4

$$y = 4.4182E-004 * x + 1.4409E-005$$

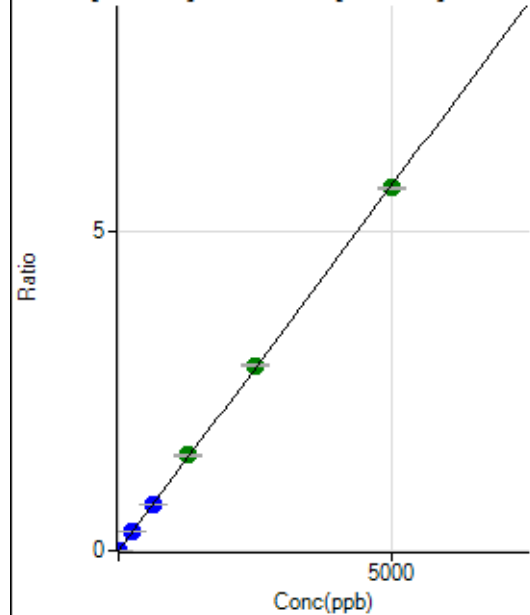
$$R = 0.9998$$

$$DL = 0.01933$$

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	244.46	0.0000	P	22.4
2	☐	0.500					
3	☐	5.000	4.371	39071.23	0.0050	P	0.8
4	☐	250.000	262.405	2345672.56	0.3002	P	0.5
5	☐	625.000	627.591	5593549.52	0.7179	P	1.3
6	☐	1250.000	1305.692	11630804.86	1.4936	A	1.0
7	☐	2500.000	2534.637	22649453.98	2.8993	A	1.0
8	☐	5000.000	4967.815	44669978.08	5.6825	A	0.8
9	☐			51703.34	0.0069	P	2.6

$$y = 0.0011 * x + 3.0172E-005$$

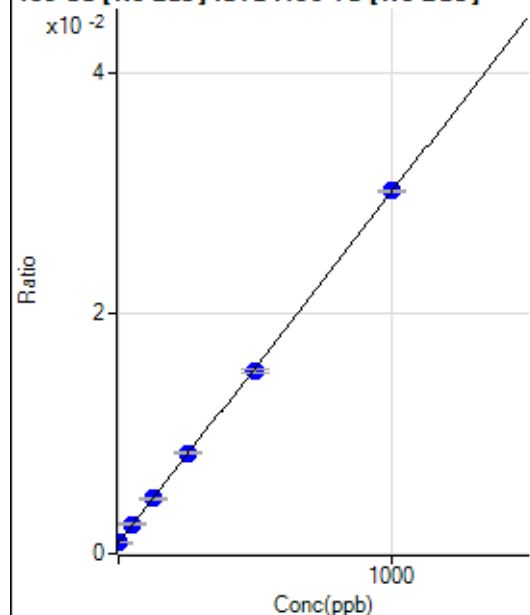
$$R = 0.9999$$

$$DL = 0.01771$$

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	8216.62	0.0009	P	4.8
2	☐	0.100					
3	☐	1.000	2.593	8539.00	0.0010	P	1.1
4	☐	50.000	54.525	22671.77	0.0025	P	2.2
5	☐	125.000	126.324	43080.47	0.0046	P	1.1
6	☐	250.000	255.285	79275.45	0.0083	P	1.6
7	☐	500.000	489.469	145785.17	0.0152	P	2.5
8	☐	1000.000	1003.551	287776.76	0.0302	P	0.3
9	☐			7952.58	0.0009	P	4.1

$$y = 2.9176E-005 * x + 8.8552E-004$$

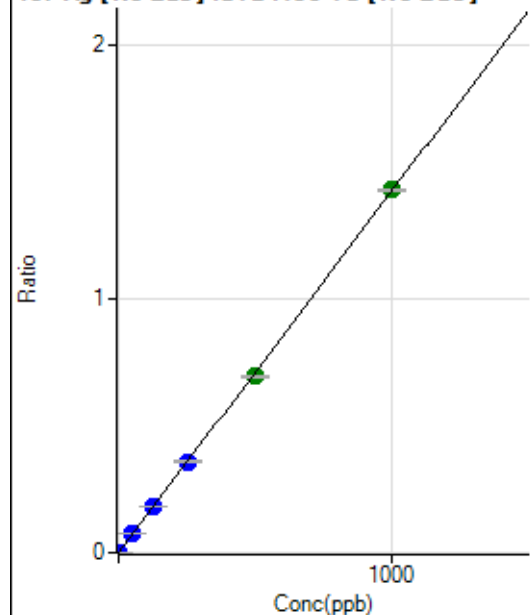
$$R = 0.9999$$

$$DL = 4.374$$

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	297.24	0.0000	P	5.0
2	☐	0.100					
3	☐	1.000	0.984	12739.59	0.0014	P	0.5
4	☐	50.000	52.161	680772.87	0.0744	P	1.1
5	☐	125.000	126.442	1698285.22	0.1802	P	0.8
6	☐	250.000	252.845	3427638.27	0.3603	P	0.9
7	☐	500.000	488.488	6691515.82	0.6961	A	0.6
8	☐	1000.000	1004.756	13659012.46	1.4318	A	0.5
9	☐			1652.96	0.0002	P	16.3

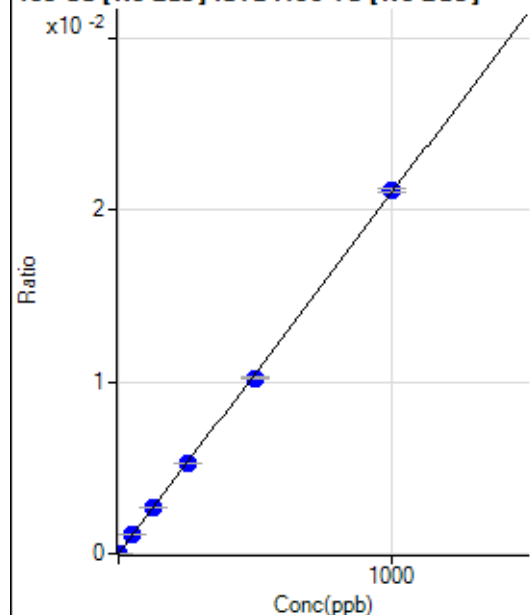
$$y = 0.0014 * x + 3.2019E-005$$

$$R = 0.9999$$

$$DL = 0.003349$$

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	16.67	0.0000	P	25.5
2	☐	0.100					
3	☐	1.000	1.060	213.90	0.0000	P	9.9
4	☐	50.000	52.497	10113.54	0.0011	P	1.7
5	☐	125.000	127.094	25181.06	0.0027	P	0.8
6	☐	250.000	252.124	50404.79	0.0053	P	0.6
7	☐	500.000	486.822	98332.60	0.0102	P	0.7
8	☐	1000.000	1005.671	201572.41	0.0211	P	1.2
9	☐			40.28	0.0000	P	40.8

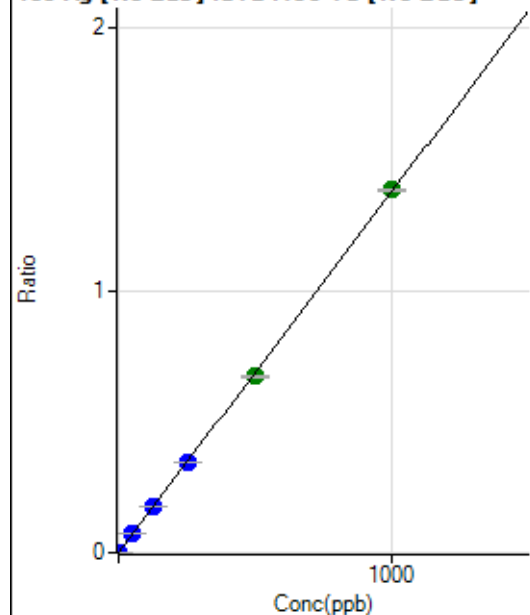
$$y = 2.1009\text{E-}005 * x + 1.7978\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.06546$$

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	186.12	0.0000	P	37.1
2	☐	0.100					
3	☐	1.000	1.019	12622.79	0.0014	P	1.1
4	☐	50.000	51.776	652055.24	0.0712	P	0.7
5	☐	125.000	125.808	1630691.16	0.1730	P	0.4
6	☐	250.000	251.377	3288517.50	0.3457	P	1.3
7	☐	500.000	488.494	6457850.62	0.6718	A	0.5
8	☐	1000.000	1005.219	13187990.22	1.3824	A	0.5
9	☐			1458.47	0.0002	P	4.6

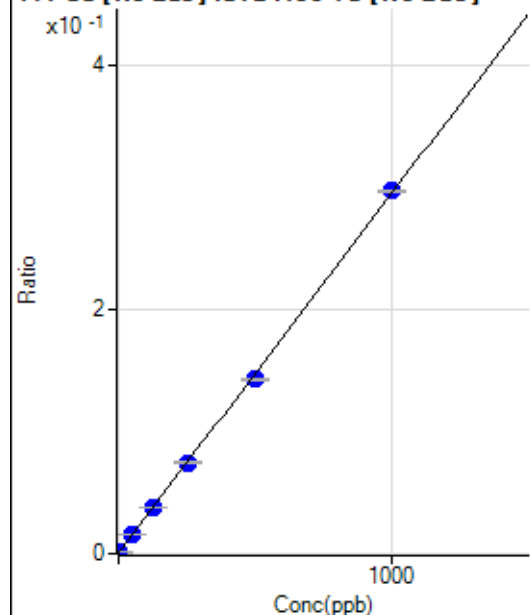
$$y = 0.0014 * x + 2.0035\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01621$$

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	5766.36	0.0006	P	4.8
2	☐	0.100					
3	☐	1.000	1.039	8232.00	0.0009	P	0.7
4	☐	50.000	51.710	144764.48	0.0158	P	0.6
5	☐	125.000	124.952	351792.76	0.0373	P	0.7
6	☐	250.000	250.529	705949.65	0.0742	P	2.2
7	☐	500.000	484.008	1372781.31	0.1428	P	1.0
8	☐	1000.000	1007.784	2830280.17	0.2967	P	0.8
9	☐			5801.12	0.0007	P	4.3

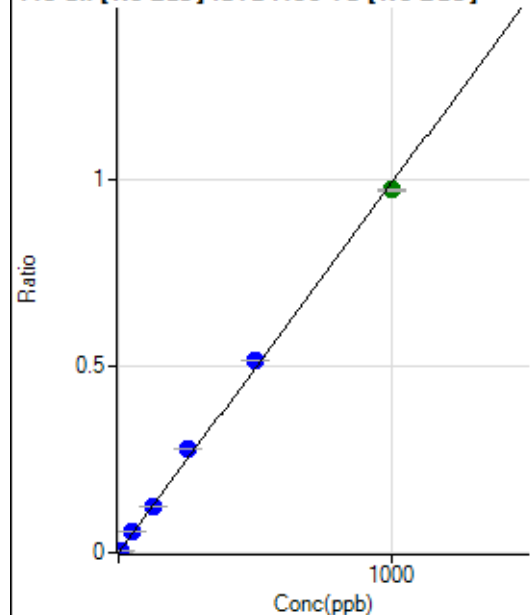
$$y = 2.9377\text{E-}004 * x + 6.2145\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.3066$$

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	1694.63	0.0002	P	5.6
2	☐	0.500					
3	☐	5.000	4.676	42688.01	0.0048	P	0.6
4	☐	50.000	58.352	529772.36	0.0579	P	1.4
5	☐	125.000	124.683	1163277.33	0.1234	P	0.9
6	☐	250.000	280.223	2636919.14	0.2772	P	0.5
7	☐	500.000	519.402	4937485.35	0.5136	P	0.5
8	☐	1000.000	982.367	9266245.00	0.9713	A	0.2
9	☐			14605.39	0.0017	P	2.4

$$y = 9.8854\text{E-}004 * x + 1.8258\text{E-}004$$

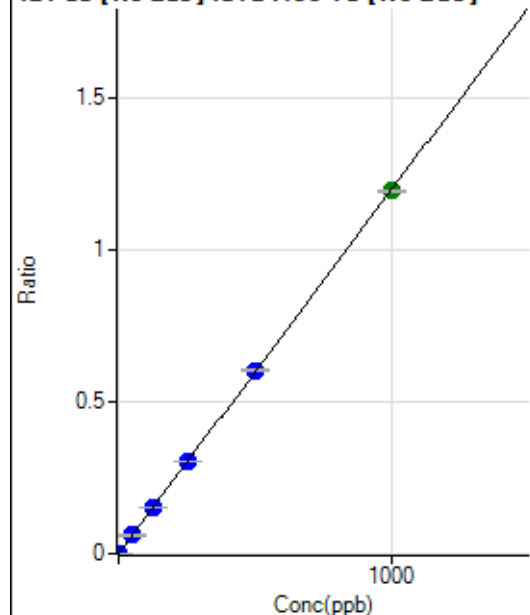
$$R = 0.9992$$

$$DL = 0.03078$$

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	255.57	0.0000	P	14.2
2	☐	0.200					
3	☐	2.000	1.815	19531.04	0.0022	P	1.8
4	☐	50.000	50.214	550144.87	0.0601	P	2.0
5	☐	125.000	125.012	1409505.32	0.1496	P	0.7
6	☐	250.000	253.754	2887610.48	0.3036	P	1.0
7	☐	500.000	504.207	5797875.09	0.6031	P	0.6
8	☐	1000.000	996.946	11376976.55	1.1925	A	0.2
9	☐			24129.88	0.0028	P	0.7

$$y = 0.0012 * x + 2.7518E-005$$

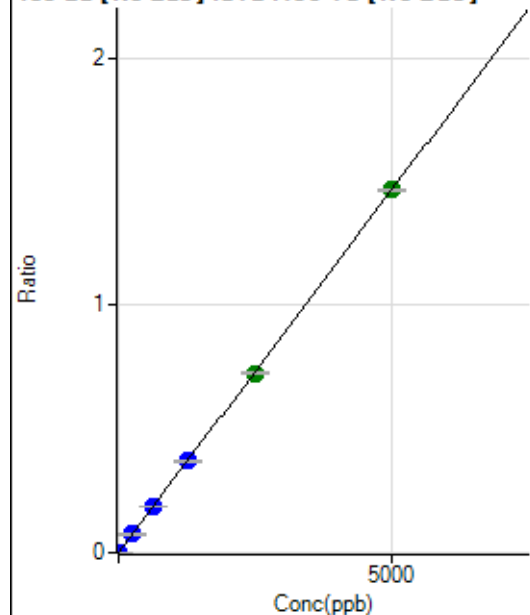
$$R = 1.0000$$

$$DL = 0.009785$$

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	58.34	0.0000	P	24.3
2	☐	1.000					
3	☐	10.000	9.283	24224.80	0.0027	P	1.7
4	☐	250.000	254.213	682075.66	0.0745	P	2.0
5	☐	625.000	628.419	1735579.18	0.1842	P	0.7
6	☐	1250.000	1269.742	3539467.05	0.3721	P	1.6
7	☐	2500.000	2479.780	6985699.03	0.7267	A	0.5
8	☐	5000.000	5004.538	13991052.22	1.4666	A	0.7
9	☐			4075.80	0.0005	P	2.1

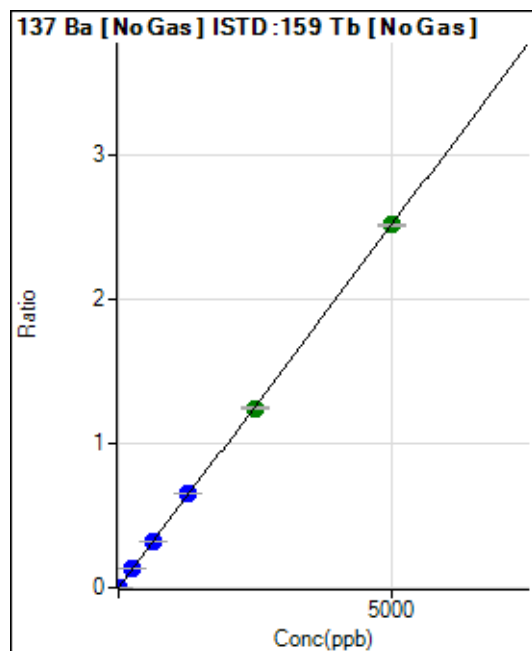
$$y = 2.9305E-004 * x + 6.2802E-006$$

$$R = 1.0000$$

$$DL = 0.01561$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	27.4
2	☐	1.000					
3	☐	10.000	9.381	42025.83	0.0047	P	1.6
4	☐	250.000	256.657	1182886.16	0.1292	P	0.7
5	☐	625.000	636.657	3020342.12	0.3205	P	0.5
6	☐	1250.000	1294.116	6196767.37	0.6514	P	1.1
7	☐	2500.000	2475.271	11977739.33	1.2460	A	1.0
8	☐	5000.000	4999.547	24009020.50	2.5167	A	0.5
9	☐			7263.30	0.0009	P	4.3

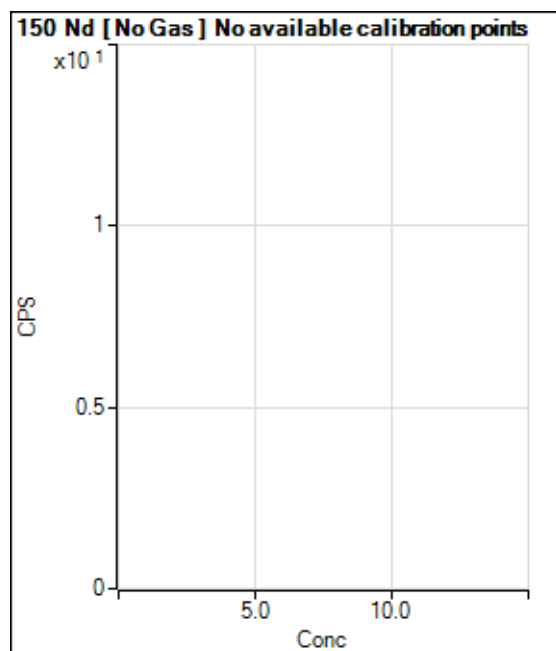
$$y = 5.0338E-004 * x + 8.3900E-006$$

$$R = 0.9999$$

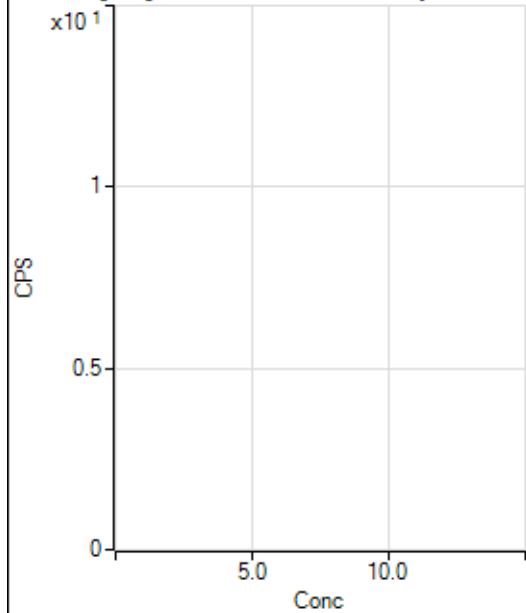
$$DL = 0.01371$$

Weight: <None>

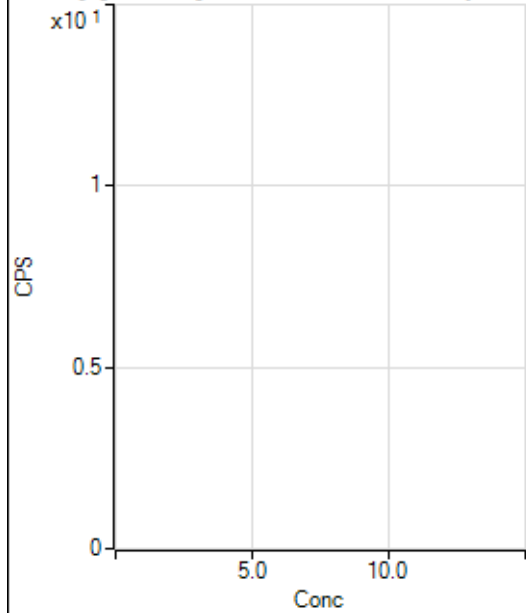
Min Conc: 0



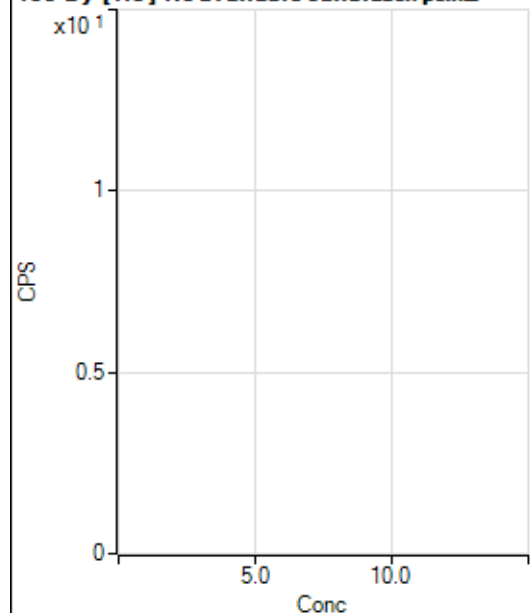
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	173.
2	☐						
3	☐			2.22		P	173.
4	☐			31.11		P	61.9
5	☐			46.67		P	28.6
6	☐			193.34		P	12.4
7	☐			286.68		P	24.3
8	☐			497.81		P	5.1
9	☐			117.78		P	3.3

150 Nd [He] No available calibration points

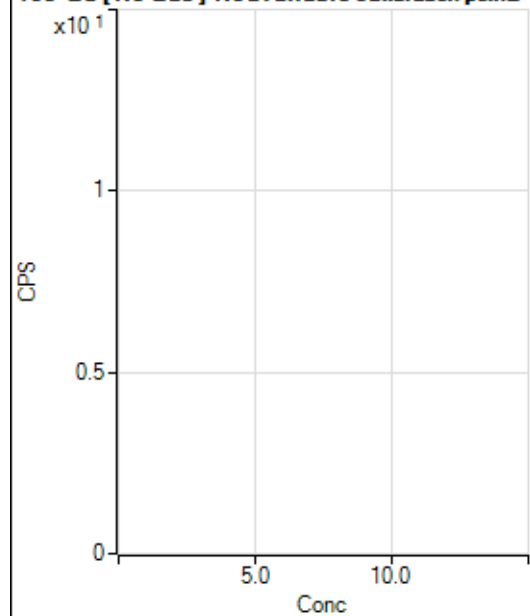
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐						
3	☐			3.33		P	100.
4	☐			18.89		P	27.0
5	☐			12.22		P	87.7
6	☐			26.67		P	25.0
7	☐			61.11		P	16.7
8	☐			81.11		P	24.8
9	☐			71.11		P	15.1

156 Dy [No Gas] No available calibration points

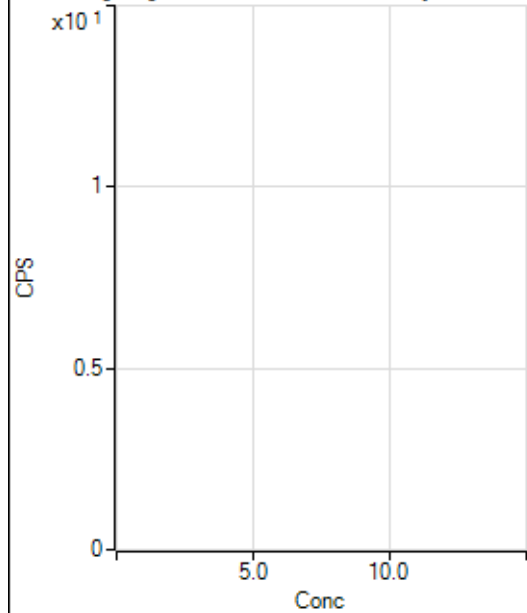
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐						
3	☐			8.33		P	100.
4	☐			16.67		P	86.6
5	☐			52.78		P	18.2
6	☐			111.12		P	60.6
7	☐			152.79		P	11.4
8	☐			313.91		P	12.5
9	☐			97.23		P	40.5

156 Dy [He] No available calibration points

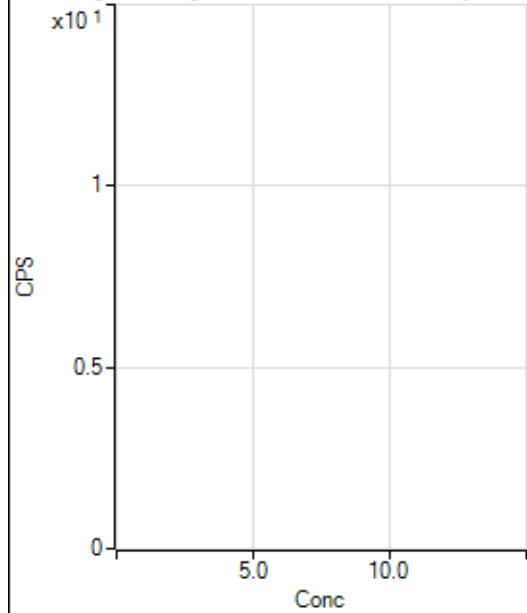
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐						
3	☐			7.78		P	65.5
4	☐			20.00		P	16.7
5	☐			28.89		P	53.3
6	☐			55.55		P	12.5
7	☐			87.78		P	28.5
8	☐			160.00		P	9.1
9	☐			53.34		P	10.8

160 Gd [No Gas] Noavailable calibration poin_

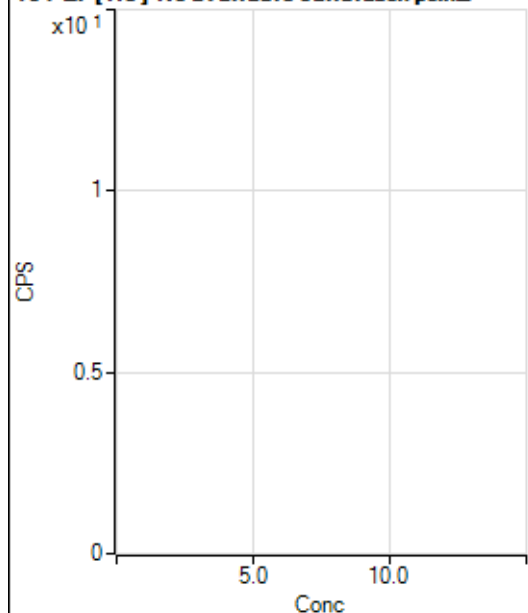
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.67		P	24.1
2	☐						
3	☐			86.11		P	14.8
4	☐			86.12		P	34.0
5	☐			86.11		P	11.2
6	☐			138.90		P	17.3
7	☐			113.89		P	18.4
8	☐			127.78		P	10.0
9	☐			147.23		P	17.3

160 Gd [He] No available calibration points

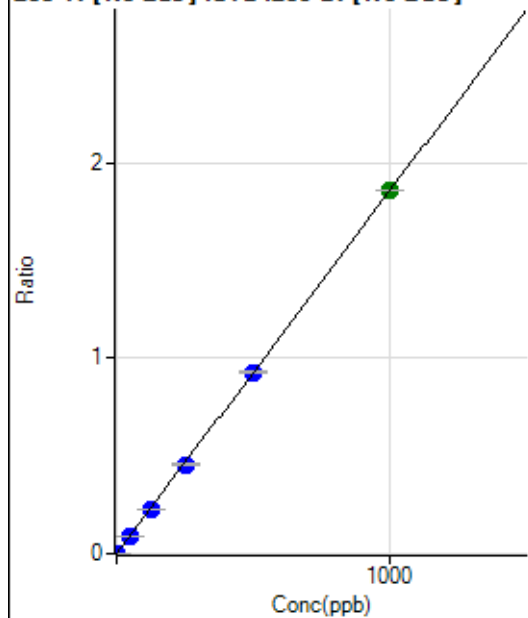
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			113.34		P	10.2
2	☐						
3	☐			132.23		P	27.7
4	☐			117.78		P	42.4
5	☐			124.45		P	14.8
6	☐			122.22		P	5.7
7	☐			141.11		P	22.3
8	☐			133.34		P	16.4
9	☐			135.56		P	19.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐						
3	☐			44.45		P	10.8
4	☐			38.89		P	53.9
5	☐			38.89		P	32.7
6	☐			44.45		P	28.7
7	☐			66.67		P	33.1
8	☐			63.89		P	27.2
9	☐			22.22		P	43.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	7.9
2	☐						
3	☐			34.45		P	11.2
4	☐			17.78		P	21.7
5	☐			22.22		P	56.8
6	☐			31.11		P	22.3
7	☐			32.22		P	26.0
8	☐			32.22		P	15.8
9	☐			34.44		P	72.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.12	0.0000	P	6.1
2	☐	0.100					
3	☐	1.000	0.915	8725.50	0.0017	P	2.3
4	☐	50.000	48.830	482491.88	0.0905	P	0.9
5	☐	125.000	120.935	1242758.07	0.2241	P	0.3
6	☐	250.000	245.586	2566702.60	0.4550	P	2.0
7	☐	500.000	501.066	5141727.41	0.9283	P	0.8
8	☐	1000.000	1001.137	10038402.22	1.8547	A	0.2
9	☐			2819.87	0.0006	P	5.1

$$y = 0.0019 * x + 1.6841E-005$$

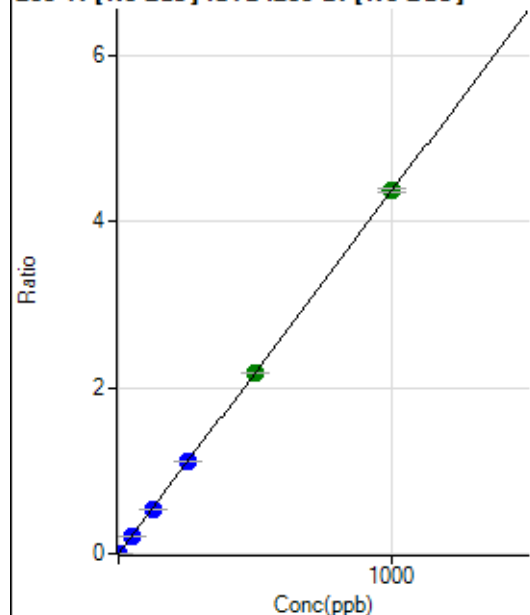
$$R = 1.0000$$

$$DL = 0.001668$$

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	180.57	0.0000	P	9.8
2	☐	0.100					
3	☐	1.000	0.938	21011.82	0.0041	P	4.9
4	☐	50.000	49.469	1150277.86	0.2157	P	0.2
5	☐	125.000	123.683	2990835.44	0.5392	P	0.1
6	☐	250.000	253.433	6233559.56	1.1049	P	1.1
7	☐	500.000	496.912	11999486.81	2.1663	A	0.3
8	☐	1000.000	1000.877	23615597.75	4.3634	A	0.9
9	☐			6952.15	0.0016	P	3.2

$$y = 0.0044 * x + 3.5308E-005$$

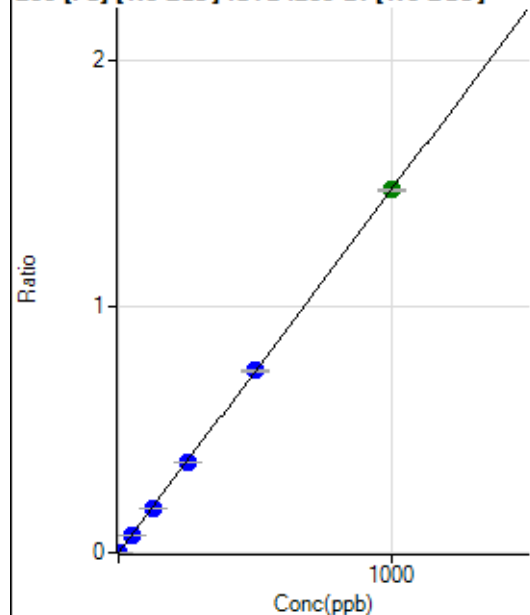
$$R = 1.0000$$

$$DL = 0.002376$$

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	229.64	0.0000	P	29.7
2	☐	0.100					
3	☐	1.000	0.920	7146.56	0.0014	P	1.3
4	☐	50.000	49.626	390540.05	0.0732	P	0.7
5	☐	125.000	123.467	1010190.51	0.1821	P	0.2
6	☐	250.000	248.418	2067310.68	0.3664	P	0.6
7	☐	500.000	501.995	4101074.89	0.7404	P	0.7
8	☐	1000.000	999.608	7979020.32	1.4742	A	0.6
9	☐			14365.49	0.0032	P	1.6

$$y = 0.0015 * x + 4.4965E-005$$

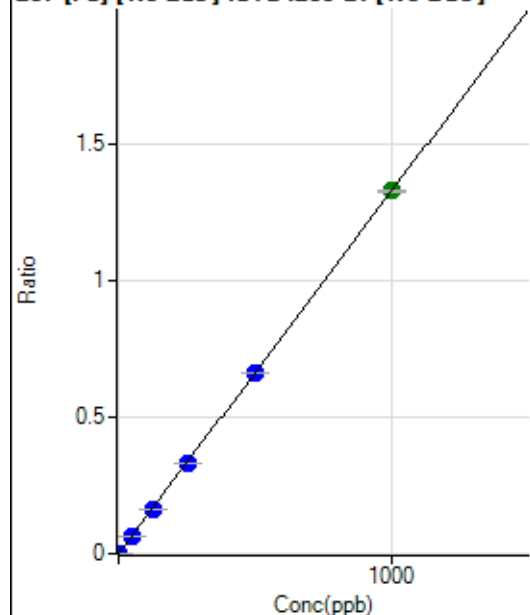
$$R = 1.0000$$

$$DL = 0.02717$$

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	185.19	0.0000	P	15.8
2	☐	0.100					
3	☐	1.000	0.922	6416.56	0.0013	P	2.5
4	☐	50.000	49.080	347168.92	0.0651	P	0.3
5	☐	125.000	122.850	903472.26	0.1629	P	0.8
6	☐	250.000	249.837	1868871.84	0.3312	P	0.6
7	☐	500.000	498.947	3664028.70	0.6615	P	0.2
8	☐	1000.000	1000.882	7181296.81	1.3269	A	0.8
9	☐			12222.64	0.0028	P	5.0

$$y = 0.0013 * x + 3.6238E-005$$

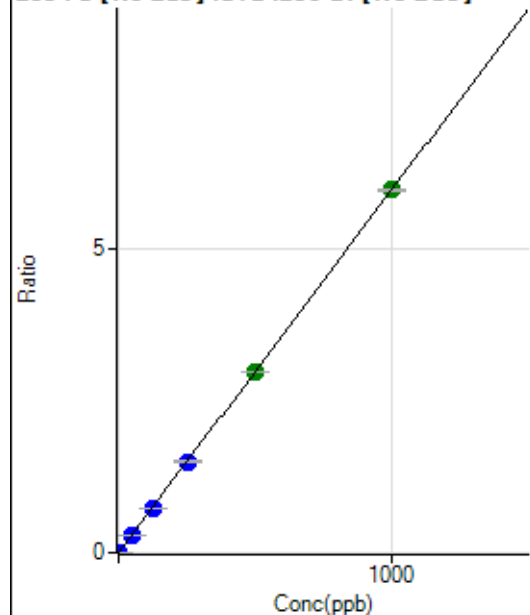
$$R = 1.0000$$

$$DL = 0.01297$$

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	907.45	0.0002	P	13.6
2	☐	0.100					
3	☐	1.000	0.925	29004.00	0.0057	P	2.9
4	☐	50.000	49.503	1573646.01	0.2951	P	0.4
5	☐	125.000	123.540	4082836.38	0.7361	P	0.6
6	☐	250.000	251.761	8462972.61	1.5000	P	0.7
7	☐	500.000	498.316	16444276.30	2.9688	A	0.1
8	☐	1000.000	1000.609	32262688.23	5.9610	A	0.5
9	☐			56687.73	0.0128	P	2.6

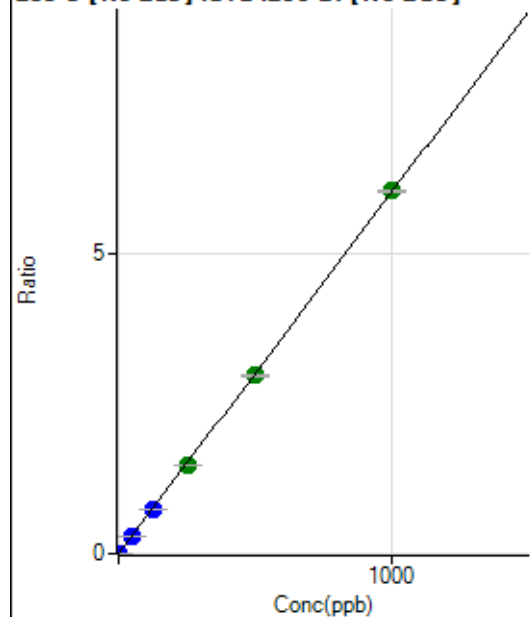
$$y = 0.0060 * x + 1.7755E-004$$

$$R = 1.0000$$

$$DL = 0.01219$$

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	166.68	0.0000	P	22.1
2	☐	0.100					
3	☐	1.000	0.871	26917.79	0.0053	P	2.9
4	☐	50.000	47.413	1524141.15	0.2858	P	1.3
5	☐	125.000	122.796	4105577.70	0.7402	P	1.2
6	☐	250.000	244.546	8315732.22	1.4740	A	1.7
7	☐	500.000	494.369	16505526.58	2.9799	A	0.8
8	☐	1000.000	1004.584	32772044.83	6.0552	A	0.7
9	☐			3217.20	0.0007	P	5.1

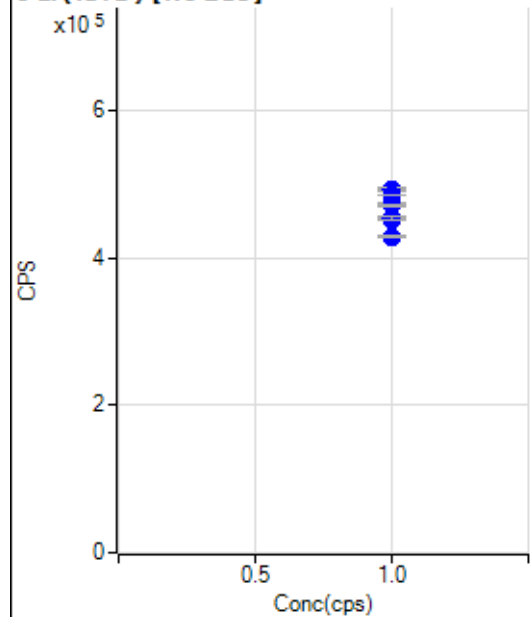
$$y = 0.0060 * x + 3.2599E-005$$

$$R = 1.0000$$

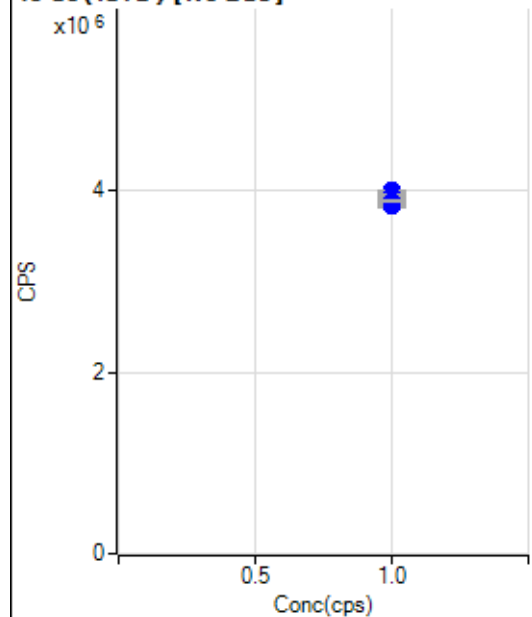
$$DL = 0.00358$$

Weight: <None>

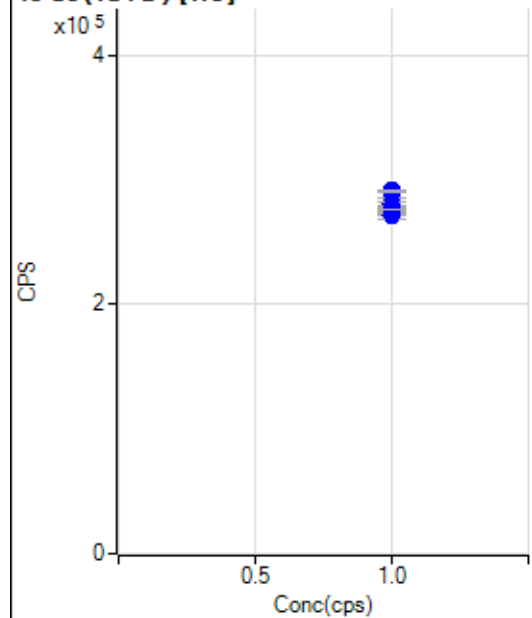
Min Conc: 0

6 Li (ISTD) [No Gas]

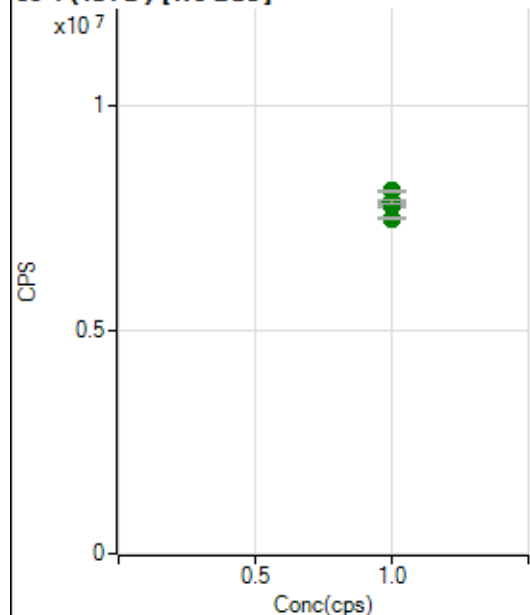
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		452128.77		P	0.6
2	☐	1.000					
3	☐	1.000		455324.37		P	1.2
4	☐	1.000		474604.48		P	0.7
5	☐	1.000		492561.59		P	0.7
6	☐	1.000		492452.96		P	1.1
7	☐	1.000		485388.54		P	0.4
8	☐	1.000		471457.50		P	0.4
9	☐	1.000		428196.17		P	0.6

45 Sc (ISTD) [No Gas]

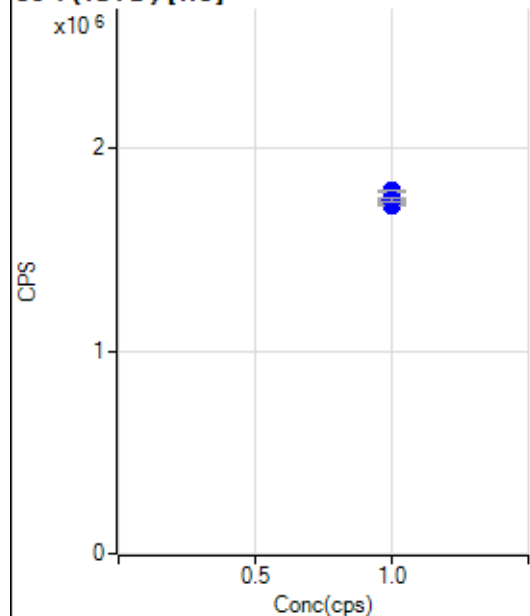
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3995488.28		P	0.3
2	☐	1.000					
3	☐	1.000		3958883.12		P	1.7
4	☐	1.000		3949306.95		P	0.5
5	☐	1.000		3863877.43		P	0.1
6	☐	1.000		3834729.12		P	0.9
7	☐	1.000		3825085.72		P	0.2
8	☐	1.000		3842553.34		P	0.0
9	☐	1.000		3884308.11		P	0.9

45 Sc (ISTD) [He]

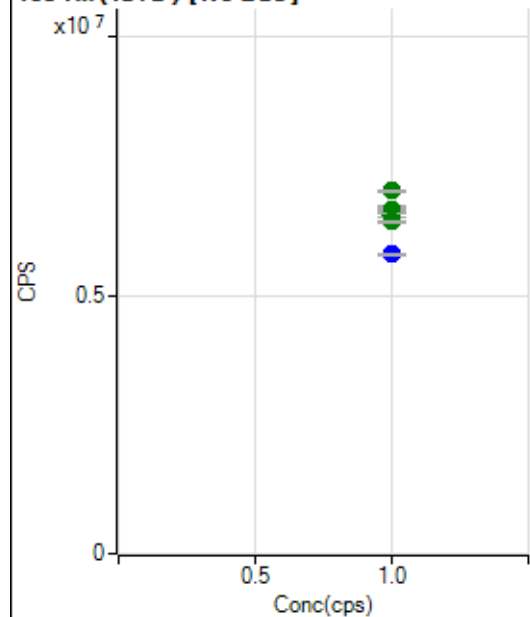
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		285523.18		P	0.1
2	☐	1.000					
3	☐	1.000		280569.38		P	1.2
4	☐	1.000		277329.14		P	0.7
5	☐	1.000		271683.28		P	0.5
6	☐	1.000		271100.60		P	1.3
7	☐	1.000		273836.66		P	0.6
8	☐	1.000		276543.02		P	0.3
9	☐	1.000		291239.68		P	0.7

89 Y (ISTD) [No Gas]

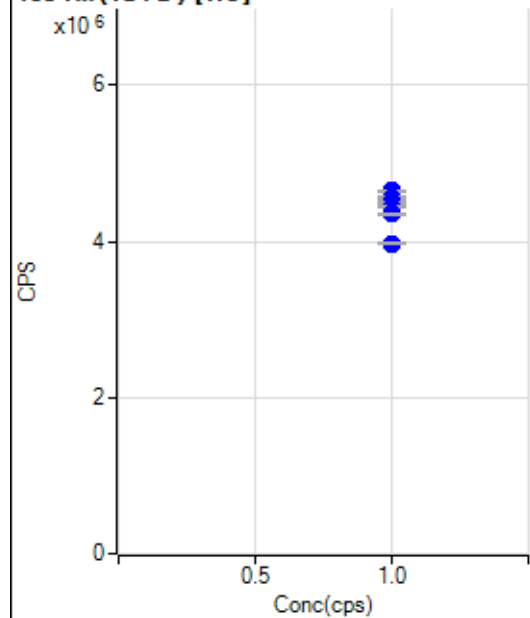
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8106157.38		A	0.8
2	☐	1.000					
3	☐	1.000		7768375.93		A	0.6
4	☐	1.000		7814238.01		A	0.7
5	☐	1.000		7792045.23		A	0.8
6	☐	1.000		7787677.94		A	0.7
7	☐	1.000		7812062.04		A	0.2
8	☐	1.000		7861293.15		A	0.8
9	☐	1.000		7478511.07		A	0.5

89 Y (ISTD) [He]

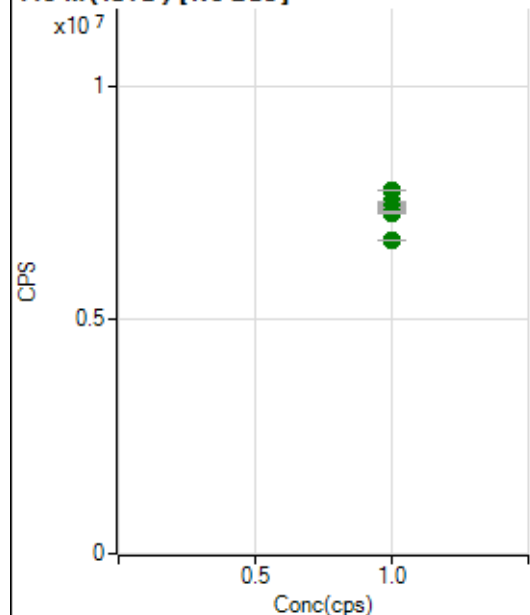
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1790540.42		P	0.2
2	☐	1.000					
3	☐	1.000		1744245.04		P	1.4
4	☐	1.000		1739079.51		P	0.4
5	☐	1.000		1720908.22		P	0.7
6	☐	1.000		1723898.62		P	0.8
7	☐	1.000		1724429.73		P	0.6
8	☐	1.000		1722799.89		P	0.4
9	☐	1.000		1746454.09		P	0.7

103 Rh (ISTD) [No Gas]

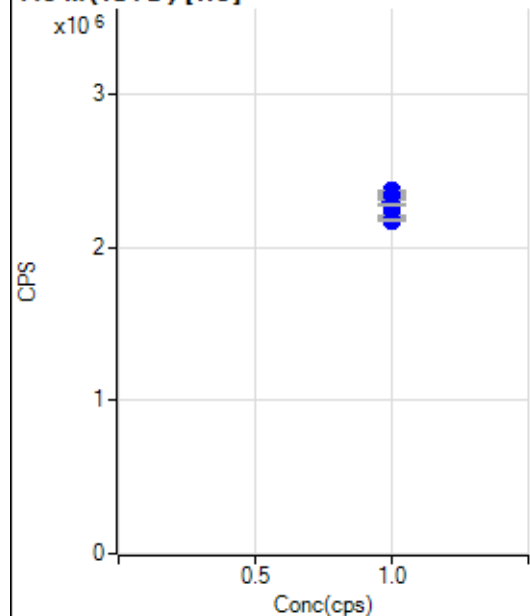
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7020507.62		A	0.3
2	☐	1.000					
3	☐	1.000		6676777.36		A	1.3
4	☐	1.000		6677133.70		A	0.7
5	☐	1.000		6631012.04		A	0.5
6	☐	1.000		6607895.11		A	0.4
7	☐	1.000		6545372.80		A	0.9
8	☐	1.000		6420271.11		A	0.2
9	☐	1.000		5797229.34		P	0.4

103 Rh (ISTD) [He]

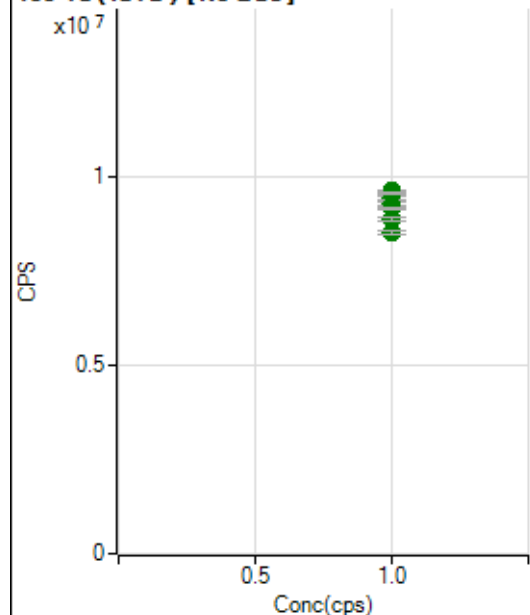
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4644167.74		P	0.5
2	☐	1.000					
3	☐	1.000		4529344.66		P	1.9
4	☐	1.000		4561413.68		P	0.4
5	☐	1.000		4514562.99		P	0.3
6	☐	1.000		4485713.23		P	0.6
7	☐	1.000		4435575.18		P	0.4
8	☐	1.000		4353071.71		P	0.5
9	☐	1.000		3968331.64		P	0.6

115 In (ISTD) [No Gas]

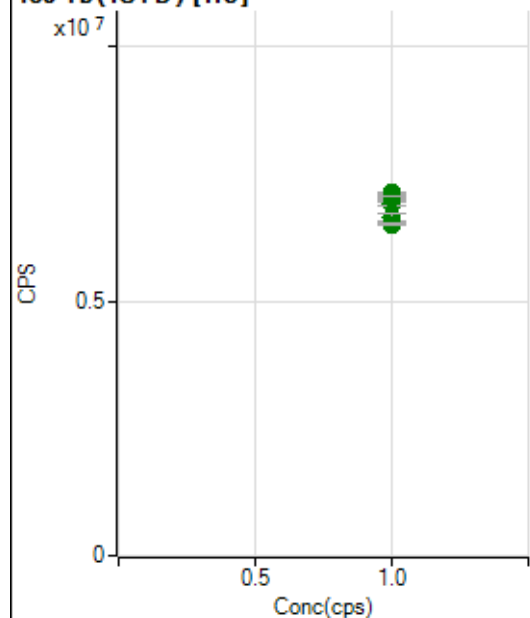
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7762198.03		A	0.1
2	☐	1.000					
3	☐	1.000		7412837.04		A	1.3
4	☐	1.000		7491159.22		A	0.6
5	☐	1.000		7509648.18		A	0.2
6	☐	1.000		7509097.21		A	0.8
7	☐	1.000		7401927.96		A	0.3
8	☐	1.000		7295139.09		A	0.2
9	☐	1.000		6721317.48		A	0.0

115 In (ISTD) [He]

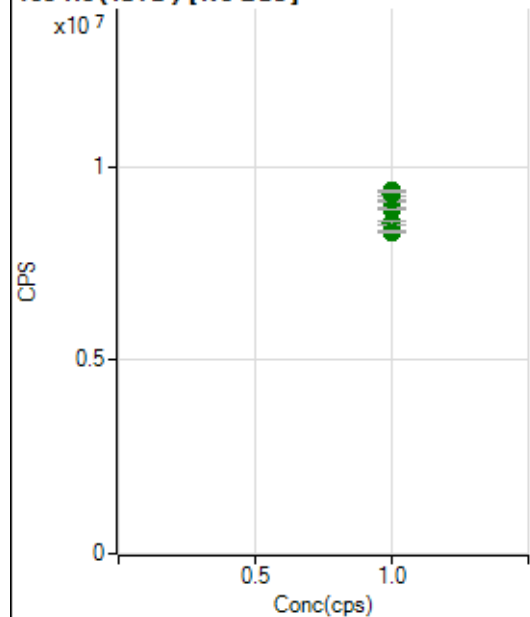
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2370342.31		P	0.4
2	☐	1.000					
3	☐	1.000		2308652.82		P	1.4
4	☐	1.000		2339487.75		P	0.6
5	☐	1.000		2319028.72		P	0.4
6	☐	1.000		2298844.46		P	1.0
7	☐	1.000		2279066.40		P	0.2
8	☐	1.000		2207964.91		P	0.5
9	☐	1.000		2178963.27		P	0.9

159 Tb (ISTD) [No Gas]

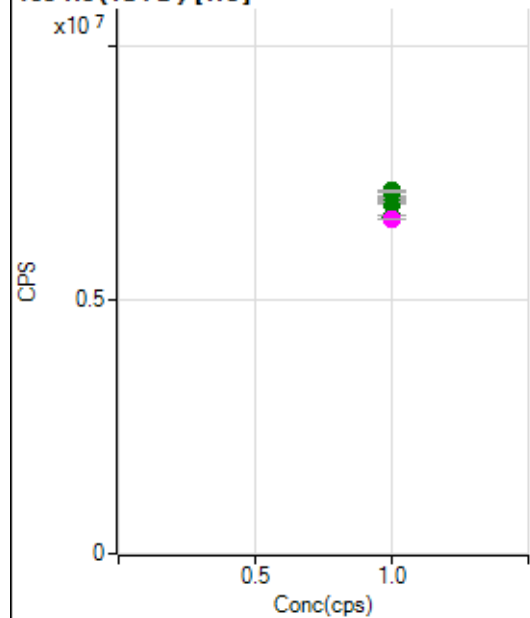
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9280382.85		A	0.9
2	☐	1.000					
3	☐	1.000		8884644.87		A	1.2
4	☐	1.000		9155250.28		A	0.2
5	☐	1.000		9424391.11		A	0.6
6	☐	1.000		9513194.93		A	1.1
7	☐	1.000		9612909.86		A	0.3
8	☐	1.000		9540155.07		A	0.5
9	☐	1.000		8515814.25		A	1.0

159 Tb (ISTD) [He]

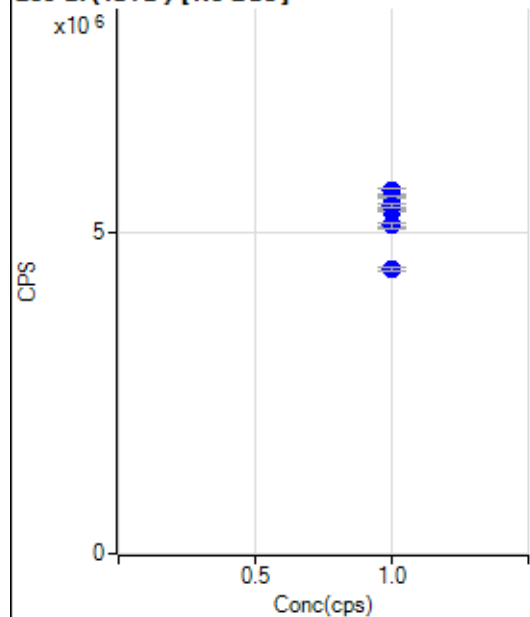
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6958752.12		A	0.5
2	☐	1.000					
3	☐	1.000		6649407.96		A	1.8
4	☐	1.000		6929067.33		A	1.1
5	☐	1.000		7030838.99		A	0.5
6	☐	1.000		7125392.88		A	0.5
7	☐	1.000		7117502.39		A	0.2
8	☐	1.000		7061899.20		A	0.5
9	☐	1.000		6506384.90		A	0.6

165 Ho (ISTD) [No Gas]

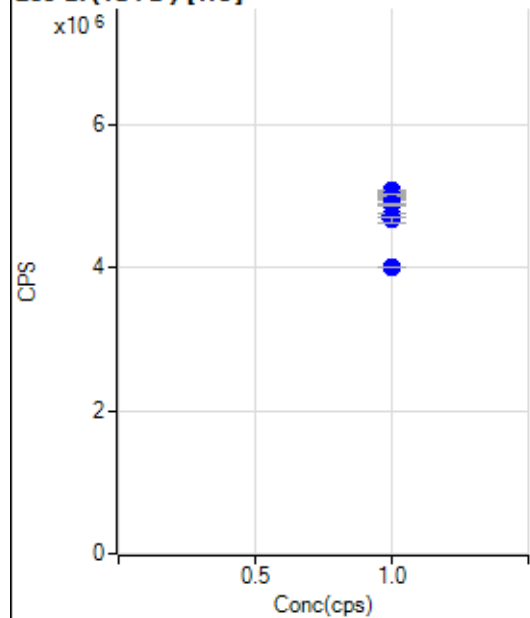
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8908807.92		A	0.7
2	☐	1.000					
3	☐	1.000		8545235.96		A	1.6
4	☐	1.000		8926235.27		A	0.5
5	☐	1.000		9121789.01		A	0.6
6	☐	1.000		9287783.37		A	1.4
7	☐	1.000		9365674.69		A	0.3
8	☐	1.000		9352960.19		A	0.3
9	☐	1.000		8299718.68		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6900219.55		A	0.7
2	☐	1.000					
3	☐	1.000		6635038.72		A	1.1
4	☐	1.000		6932397.05		A	0.7
5	☐	1.000		7022255.52		A	0.4
6	☐	1.000		7125501.91		A	0.5
7	☐	1.000		7128358.51		A	0.4
8	☐	1.000		7136077.88		A	0.5
9	☐	1.000		6580354.62		M	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5114666.31		P	0.8
2	☐	1.000					
3	☐	1.000		5099306.11		P	2.1
4	☐	1.000		5332852.94		P	0.8
5	☐	1.000		5546477.97		P	0.7
6	☐	1.000		5642406.44		P	1.5
7	☐	1.000		5539129.22		P	0.6
8	☐	1.000		5412420.75		P	0.8
9	☐	1.000		4425809.73		P	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4736974.27		P	0.9
2	☐	1.000					
3	☐	1.000		4667088.09		P	2.2
4	☐	1.000		4967627.04		P	0.4
5	☐	1.000		5048438.85		P	0.6
6	☐	1.000		5075011.10		P	0.8
7	☐	1.000		5015564.37		P	0.2
8	☐	1.000		4882416.35		P	0.3
9	☐	1.000		4001098.55		P	0.1

US EPA Tune Check Sample Report

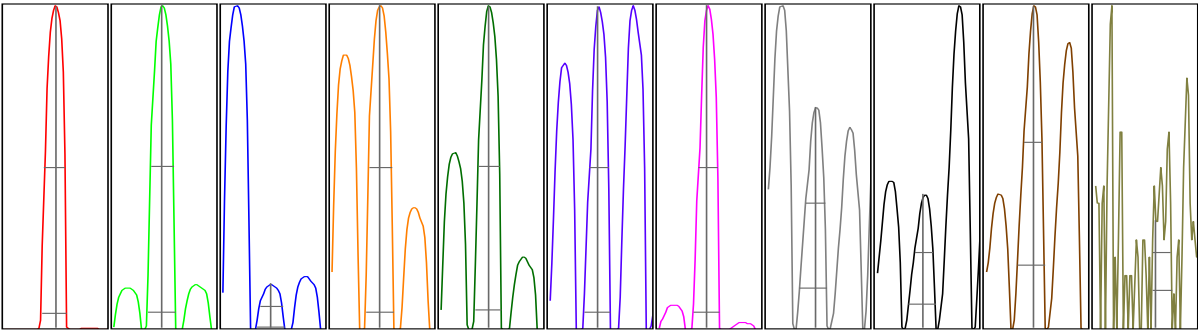
Batch Folder D:\ICP-MS Data\P7022618- MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	3634	1.48	5.00	
24	406905	1.26	5.00	
25	56055	1.00	5.00	
26	66054	1.37	5.00	
59	87835	1.13	5.00	
113	12839	0.29	5.00	
115	169545	1.16	5.00	
206	34629	1.40	5.00	
207	33634	1.73	5.00	
208	73772	1.36	5.00	
220	0	29.17		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	3577	3592	3623	3677	3701
24	399658	403868	408265	410690	412044
25	55213	55860	56098	56481	56621
26	64794	65476	66287	66899	66813
59	86248	87564	88266	88293	88806
113	12828	12875	12787	12831	12874
115	172119	170980	168934	168435	167258
206	33977	34430	34623	34831	35286
207	32839	33292	33891	33799	34351
208	72221	73494	73860	74591	74695
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	6208	9.05	8.9 - 9.1		0.741	0.900	
24	652251	23.95	23.9 - 24.1		0.827	0.900	
25	90184	24.95	24.9 - 25.1		0.829	0.900	
26	106352	25.95	25.9 - 26.1		0.827	0.900	
59	148496	58.95	58.9 - 59.1		0.783	0.900	
113	23721	112.95	112.9 - 113.1		0.772	0.900	
115	313304	114.95	114.9 - 115.1		0.762	0.900	
206	60417	205.95	205.9 - 206.1		0.774	0.900	
207	54930	206.90	206.9 - 207.1		0.768	0.900	
208	131111	207.95	207.9 - 208.1		0.773	0.900	
220	0	220.35	-		0.562		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	5.3	V	Deflect	13.6	V
Extract 2	-195.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-115	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	180	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	32861	0.47	
89	138947	0.38	
205	46441	0.51	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	32599	32834	32940	32972	32959
89	138934	138880	138424	138673	139821
205	46082	46698	46385	46450	46592

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.7	V	Deflect	1.8	V
Extract 2	-185.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-115	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	200	V			