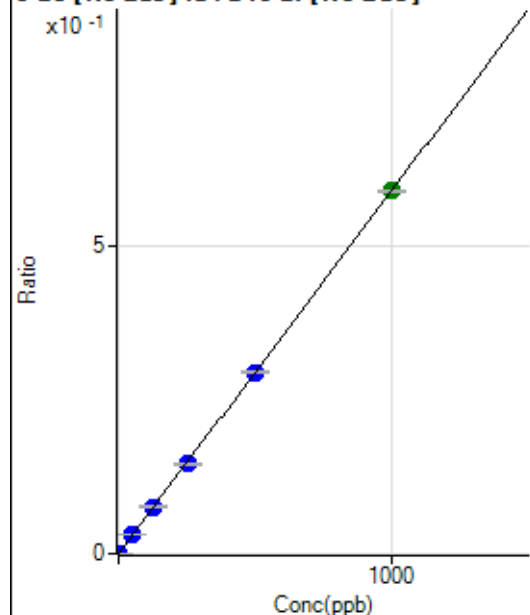


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012122MS1.b\
Analysis File: P8012122MS1.batch.bin
DA Date-Time: 2022-01-25 16:33:42
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-01-21 13:22:55
2	005CALS.d	S02	2022-01-21 13:29:05
3	006CALS.d	S03	2022-01-21 13:32:12
4	007CALS.d	S04	2022-01-21 13:35:15
5	008CALS.d	S05	2022-01-21 13:38:21
6	009CALS.d	S06	2022-01-21 13:41:24
7	010CALS.d	S07	2022-01-21 13:44:30
8	011CALS.d	S08	2022-01-21 13:47:33

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	67.32	0.0000	P	23.5
2	☐	1.000	1.144	1073.16	0.0007	P	2.7
3	☐	50.000	52.857	49089.65	0.0311	P	2.9
4	☐	125.000	128.569	123406.39	0.0756	P	2.8
5	☐	250.000	246.780	242837.63	0.1451	P	3.3
6	☐	500.000	500.415	486314.96	0.2943	P	1.3
7	☐	1000.000	1000.008	1008027.10	0.5880	A	0.4
8	☐			704.55	0.0004	P	6.3

$$y = 5.8797\text{E-}004 * x + 4.4005\text{E-}005$$

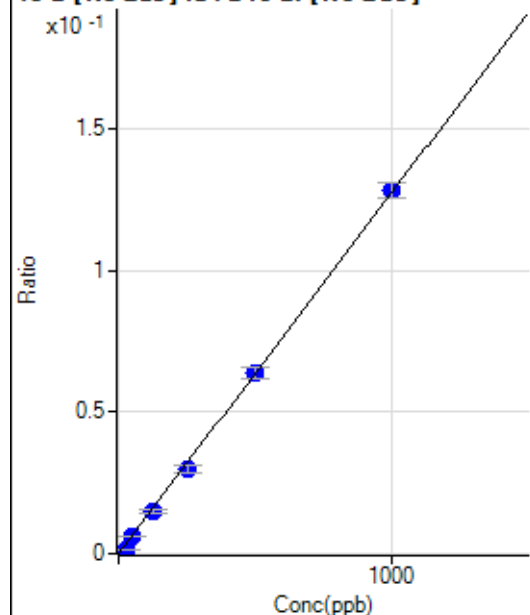
$$R = 1.0000$$

$$DL = 0.05282$$

$$BEC = 0.07484$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	171.30	0.0001	P	3.9
2	☐	25.000	10.267	2125.07	0.0014	P	3.0
3	☐	50.000	46.280	9455.87	0.0060	P	6.8
4	☐	125.000	116.758	24379.48	0.0150	P	9.7
5	☐	250.000	233.764	49883.81	0.0298	P	7.7
6	☐	500.000	500.043	105226.42	0.0637	P	5.9
7	☐	1000.000	1005.622	219373.65	0.1280	P	4.2
8	☐			27884.26	0.0166	P	8.4

$$y = 1.2715\text{E-}004 * x + 1.1207\text{E-}004$$

$$R = 0.9998$$

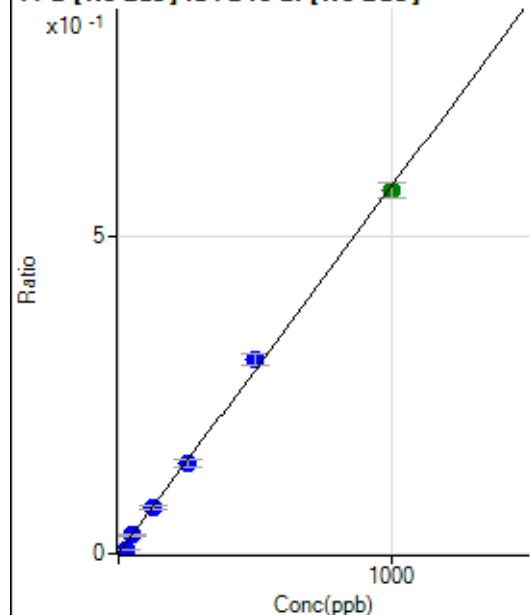
$$DL = 0.1019$$

$$BEC = 0.8814$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	868.52	0.0006	P	5.5
2	☐	25.000	10.368	9834.71	0.0066	P	6.4
3	☐	50.000	49.149	45687.17	0.0290	P	6.9
4	☐	125.000	122.625	116476.65	0.0714	P	8.1
5	☐	250.000	244.768	237517.79	0.1420	P	7.6
6	☐	500.000	528.277	505390.55	0.3059	P	5.9
7	☐	1000.000	987.875	979789.59	0.5716	A	4.2
8	☐			130457.78	0.0775	P	9.2

$$y = 5.7799\text{E-}004 * x + 5.6839\text{E-}004$$

$$R = 0.9993$$

$$DL = 0.1614$$

$$BEC = 0.9834$$

Weight: <None>

Min Conc: 0

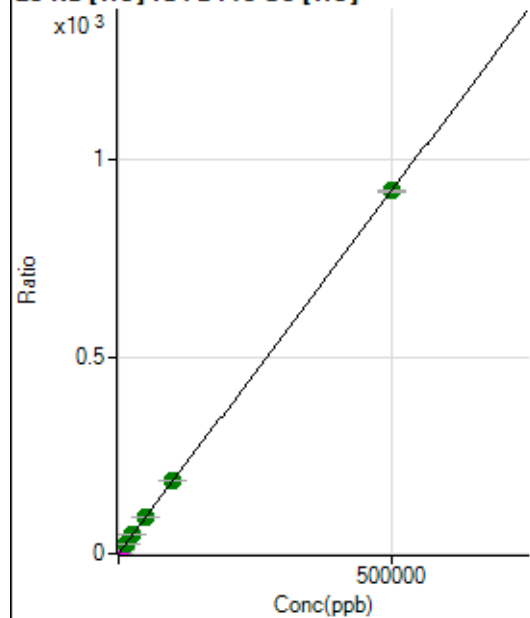
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4390246.36		A	1.7
2	☐			4607610.56		A	2.1
3	☐			4900921.81		A	2.0
4	☐			4961609.01		A	1.7
5	☐			5060773.98		A	1.8
6	☐			5326941.13		A	1.8
7	☐			5691196.83		A	2.6
8	☐			5328757.80		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			45716.08		P	1.4
2	☐			47387.92		P	3.5
3	☐			49832.42		P	1.6
4	☐			49559.15		P	1.2
5	☐			51064.29		P	0.8
6	☐			53447.90		P	0.9
7	☐			58357.95		P	1.3
8	☐			57038.79		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16584.82	0.1565	P	3.0
2	☐	500.000	457.183	106921.41	0.9992	P	1.4
3	☐	5000.000	5222.659	1045752.14	9.7831	M	2.0
4	☐	12500.000	13221.357	2521965.27	24.5265	A	3.1
5	☐	25000.000	25552.181	4873069.12	47.2551	A	0.9
6	☐	50000.000	50133.326	9530310.80	92.5639	A	2.3
7	☐	100000.00	99471.806	18975052.16	183.5061	A	0.2
8	☐	500000.00	500044.47	94246903.49	921.8546	A	0.5

$$y = 0.0018 * x + 0.1565$$

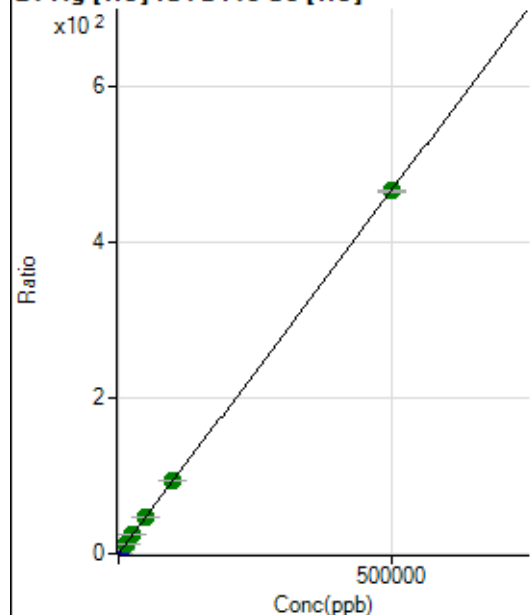
$$R = 1.0000$$

$$DL = 7.555$$

$$BEC = 84.91$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	547.25	0.0052	P	9.9
2	☐	500.000	469.706	47450.17	0.4435	P	2.7
3	☐	5000.000	5236.456	522909.07	4.8922	P	1.0
4	☐	12500.000	13661.505	1311725.76	12.7552	A	1.4
5	☐	25000.000	26350.555	2536552.25	24.5976	A	1.0
6	☐	50000.000	50690.320	4872308.36	47.3134	A	0.6
7	☐	100000.00	101625.88	9807850.31	94.8505	A	0.3
8	☐	500000.00	499506.89	47660354.19	466.1848	A	0.2

$$y = 9.3328\text{E-}004 * x + 0.0052$$

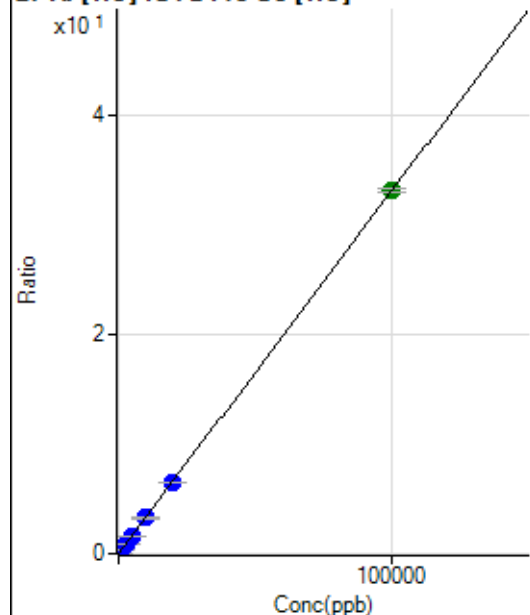
R = 1.0000

DL = 1.647

BEC = 5.534

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	112.49	0.0011	P	5.9
2	☐	20.000	18.367	763.26	0.0071	P	4.4
3	☐	1000.000	1035.310	36704.68	0.3434	P	1.2
4	☐	2500.000	2582.077	87928.49	0.8549	P	0.4
5	☐	5000.000	5005.814	170812.12	1.6564	P	0.3
6	☐	10000.000	9834.467	334928.74	3.2531	P	2.5
7	☐	20000.000	19661.178	672357.60	6.5025	P	0.6
8	☐	100000.00	100081.62	3383540.92	33.0955	A	1.0

$$y = 3.3067\text{E-}004 * x + 0.0011$$

R = 1.0000

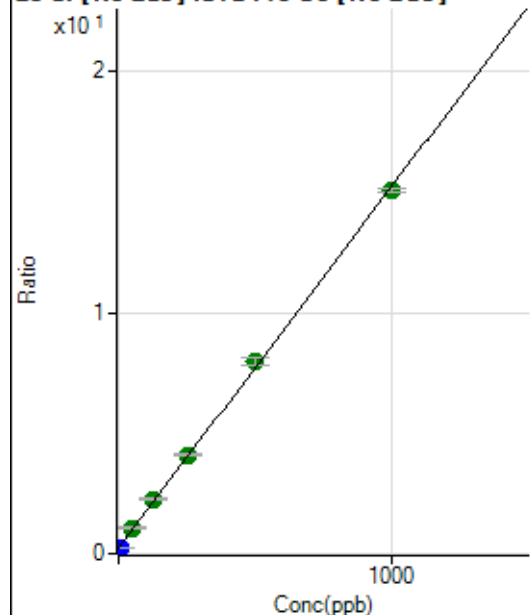
DL = 0.5696

BEC = 3.211

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	660837.19	0.2401	P	0.7
2	☐	10.000	0.796	699269.47	0.2520	P	3.1
3	☐	50.000	55.558	2958314.59	1.0721	A	3.6
4	☐	125.000	134.767	6420519.72	2.2582	A	1.4
5	☐	250.000	256.161	11844525.96	4.0761	A	1.7
6	☐	500.000	516.186	23201105.38	7.9699	A	3.7
7	☐	1000.000	988.960	44942555.87	15.0496	A	1.2
8	☐			1529027.40	0.5120	A	2.3

$$y = 0.0150 * x + 0.2401$$

$$R = 0.9996$$

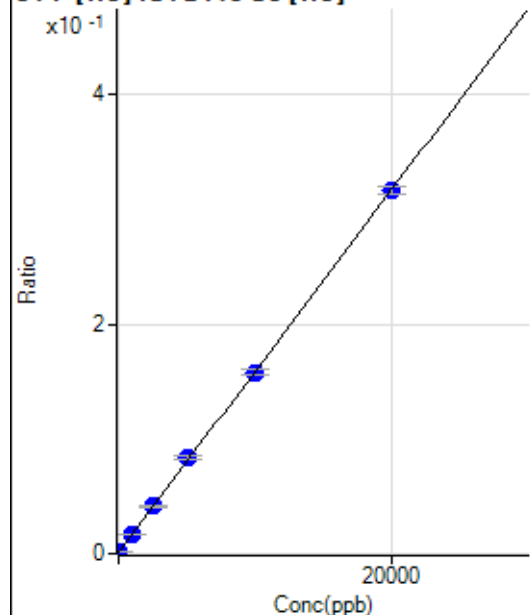
$$DL = 0.3457$$

$$BEC = 16.03$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-1.407	97.23	0.0009	P	13.7
2	☐	0.000	1.407	102.78	0.0010	P	21.8
3	☐	1000.000	999.696	1789.05	0.0167	P	6.1
4	☐	2500.000	2567.641	4272.96	0.0415	P	3.4
5	☐	5000.000	5261.048	8675.04	0.0841	P	4.4
6	☐	10000.000	9952.863	16298.33	0.1583	P	2.4
7	☐	20000.000	19949.867	32709.70	0.3164	P	2.1
8	☐			111.12	0.0011	P	63.0

$$y = 1.5811E-005 * x + 9.4032E-004$$

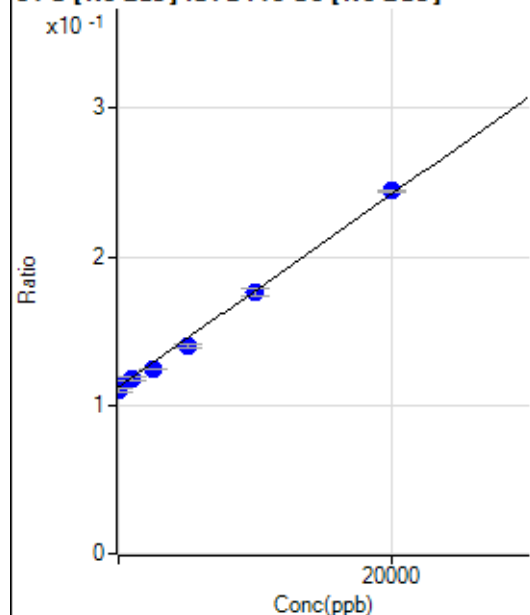
$$R = 0.9999$$

$$DL = 31.87$$

$$BEC = 59.47$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	325.328	314856.39	0.1144	P	0.6
2	☐	0.000	-325.328	305701.45	0.1102	P	2.7
3	☐	1000.000	845.629	324997.21	0.1178	P	3.1
4	☐	2500.000	1852.949	353451.57	0.1243	P	1.0
5	☐	5000.000	4259.001	406680.15	0.1400	P	1.5
6	☐	10000.000	9903.959	514308.65	0.1766	P	2.8
7	☐	20000.000	20321.870	729675.37	0.2443	P	0.8
8	☐			278338.89	0.0932	P	1.6

$$y = 6.4984\text{E-}006 * x + 0.1123$$

$$R = 0.9987$$

$$DL = 840.6$$

$$BEC = 1.728\text{E}+04$$

Weight: <None>

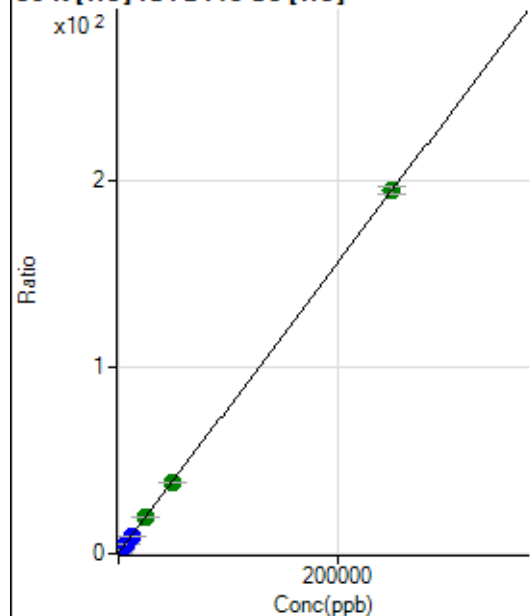
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			268214.86		P	0.7
2	☐			265136.92		P	0.5
3	☐			251667.47		P	0.5
4	☐			235891.26		P	0.6
5	☐			215309.89		P	0.7
6	☐			199384.06		P	0.6
7	☐			195789.66		P	0.4
8	☐			211204.44		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2139.09		P	6.9
2	☐			2369.70		P	5.1
3	☐			1886.28		P	7.0
4	☐			1839.06		P	4.1
5	☐			1425.11		P	12.2
6	☐			1400.11		P	11.6
7	☐			1436.22		P	7.1
8	☐			1472.34		P	6.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	18754.25	0.1770	P	1.8
2	☐	500.000	452.901	56631.10	0.5292	P	0.8
3	☐	2500.000	2553.227	231190.24	2.1628	P	0.7
4	☐	6250.000	6372.822	527959.80	5.1336	P	1.1
5	☐	12500.000	12257.219	1001369.57	9.7104	P	0.7
6	☐	25000.000	25079.824	2026181.83	19.6836	A	3.5
7	☐	50000.000	49186.521	3973977.26	38.4334	A	0.7
8	☐	250000.00	250163.34	19912623.88	194.7500	A	2.2

$$y = 7.7778E-004 * x + 0.1770$$

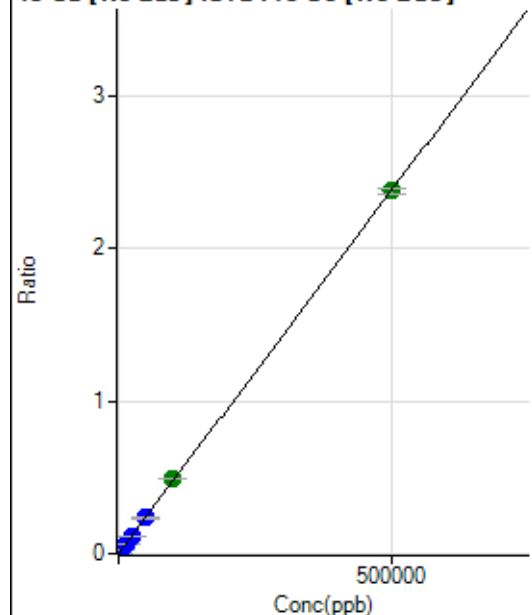
$$R = 1.0000$$

$$DL = 12.58$$

$$BEC = 227.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	261.22	0.0001	P	8.1
2	☐	500.000	458.854	6317.70	0.0023	P	1.8
3	☐	5000.000	5272.020	69422.66	0.0252	P	2.6
4	☐	12500.000	12643.593	171113.14	0.0602	P	2.1
5	☐	25000.000	24462.154	338127.33	0.1164	P	2.4
6	☐	50000.000	49397.067	683834.05	0.2349	P	3.4
7	☐	100000.00	102605.62	1456766.30	0.4878	A	1.1
8	☐	500000.00	499559.79	7089602.82	2.3747	A	1.5

$$y = 4.7534\text{E-}006 * x + 9.4906\text{E-}005$$

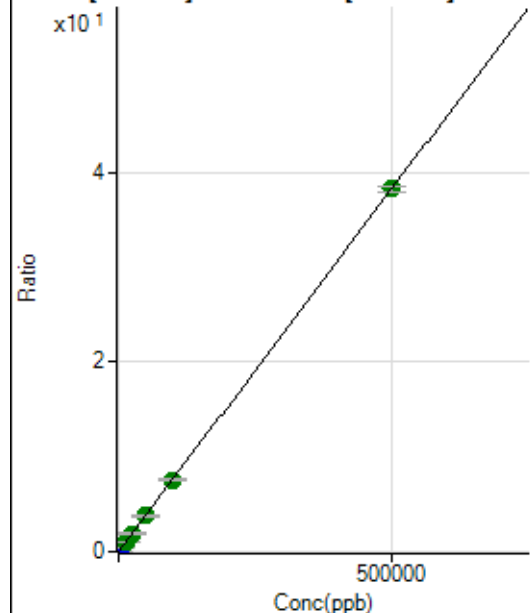
$$R = 1.0000$$

$$DL = 4.879$$

$$BEC = 19.97$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19753.59	0.0072	P	1.6
2	☐	500.000	461.864	117839.06	0.0425	P	3.0
3	☐	5000.000	5210.535	1118504.90	0.4053	P	2.7
4	☐	12500.000	12912.822	2825389.72	0.9938	A	1.4
5	☐	25000.000	24958.159	5562550.78	1.9142	A	1.3
6	☐	50000.000	49140.068	10953956.29	3.7619	A	2.5
7	☐	100000.00	98856.435	22577244.76	7.5607	A	1.4
8	☐	500000.00	500304.41	114146296.0	38.2349	A	1.9

$$y = 7.6409\text{E-}005 * x + 0.0072$$

$$R = 1.0000$$

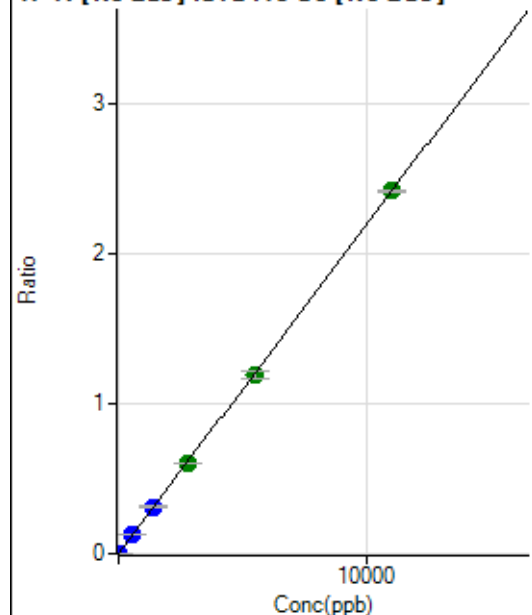
$$DL = 4.515$$

$$BEC = 93.93$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	188.89	0.0001	P	29.3
2	☐	5.000	5.023	3253.25	0.0012	P	1.8
3	☐	550.000	590.921	358371.89	0.1299	P	3.5
4	☐	1375.000	1428.279	892300.11	0.3138	P	1.8
5	☐	2750.000	2753.272	1757781.88	0.6049	A	0.6
6	☐	5500.000	5446.143	3483071.54	1.1965	A	4.3
7	☐	11000.000	11017.404	7228000.94	2.4203	A	0.6
8	☐			1930.74	0.0006	P	13.0

$$y = 2.1968\text{E-}004 * x + 6.8620\text{E-}005$$

$$R = 1.0000$$

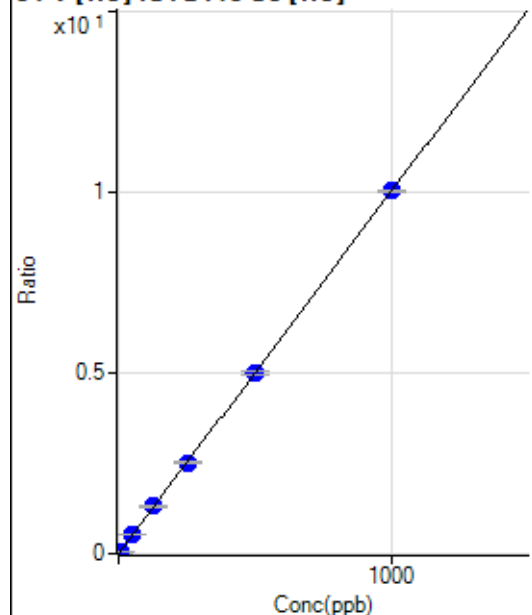
$$DL = 0.2747$$

$$BEC = 0.3124$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	4.745	5087.62	0.0475	P	1.2
3	☐	50.000	52.188	55885.37	0.5228	P	0.7
4	☐	125.000	130.296	134262.38	1.3053	P	1.5
5	☐	250.000	251.365	259684.59	2.5182	P	0.9
6	☐	500.000	496.945	512549.16	4.9785	P	2.4
7	☐	1000.000	1000.416	1036282.95	10.0223	P	0.8
8	☐			454.46	0.0044	P	16.7

$$y = 0.0100 * x + 1.0499\text{E-}005$$

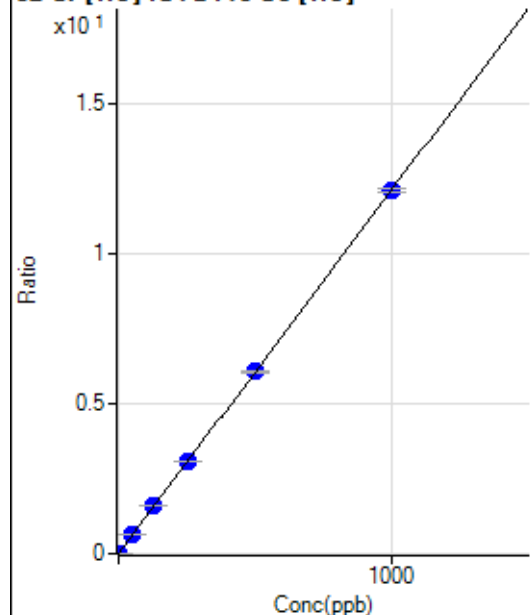
$$R = 1.0000$$

$$DL = 0.005446$$

$$BEC = 0.001048$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	524.46	0.0050	P	15.1
2	☐	2.000	1.853	2929.22	0.0274	P	3.0
3	☐	50.000	52.953	68998.79	0.6456	P	1.1
4	☐	125.000	130.621	163025.67	1.5851	P	0.7
5	☐	250.000	254.676	318230.53	3.0859	P	0.6
6	☐	500.000	499.803	623058.82	6.0513	P	1.8
7	☐	1000.000	998.079	1248957.39	12.0792	P	0.9
8	☐			3803.88	0.0372	P	2.5

$$y = 0.0121 * x + 0.0050$$

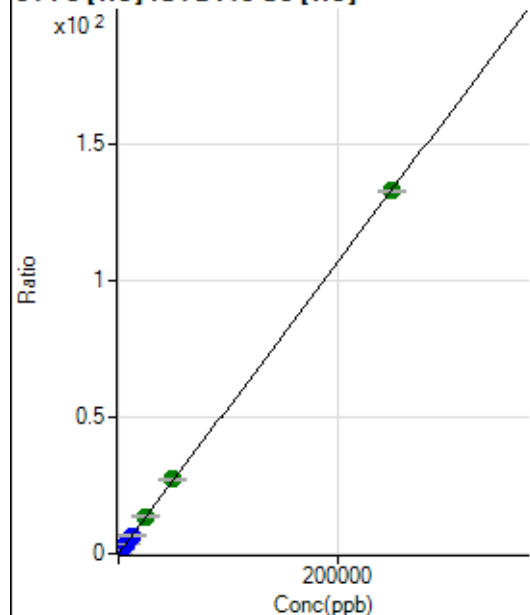
$$R = 1.0000$$

$$DL = 0.1857$$

$$BEC = 0.4092$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	451.86	0.0043	P	8.4
2	☐	50.000	49.518	3270.80	0.0306	P	4.5
3	☐	2500.000	2576.249	146752.13	1.3730	P	0.8
4	☐	6250.000	6427.921	351664.32	3.4192	P	1.3
5	☐	12500.000	12513.307	685996.29	6.6522	P	1.1
6	☐	25000.000	25726.680	1407730.95	13.6721	A	1.7
7	☐	50000.000	51441.022	2826422.37	27.3335	A	2.2
8	☐	250000.00	249633.25	13558718.82	132.6276	A	0.5

$$y = 5.3127E-004 * x + 0.0043$$

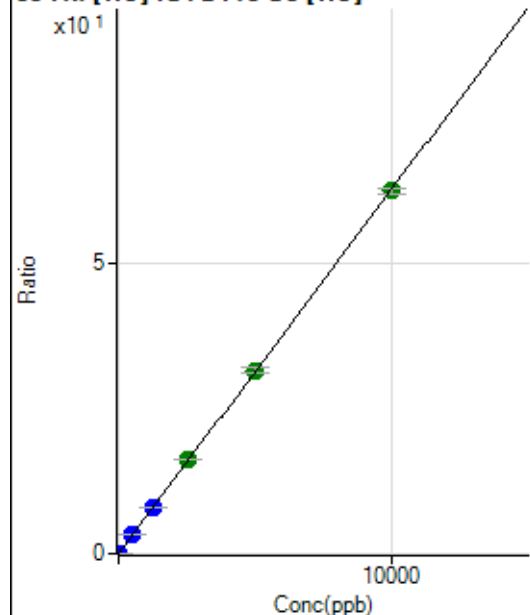
$$R = 1.0000$$

$$DL = 2.01$$

$$BEC = 8.022$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	53.33	0.0005	P	11.1
2	☐	1.000	1.227	878.93	0.0082	P	4.2
3	☐	500.000	507.974	341309.99	3.1932	P	1.2
4	☐	1250.000	1254.608	811078.02	7.8860	P	0.4
5	☐	2500.000	2577.547	1670757.70	16.2010	A	0.9
6	☐	5000.000	5037.596	3259631.52	31.6630	A	2.9
7	☐	10000.000	9960.840	6473609.97	62.6067	A	1.5
8	☐			4808.77	0.0471	P	11.9

$$y = 0.0063 * x + 5.0336E-004$$

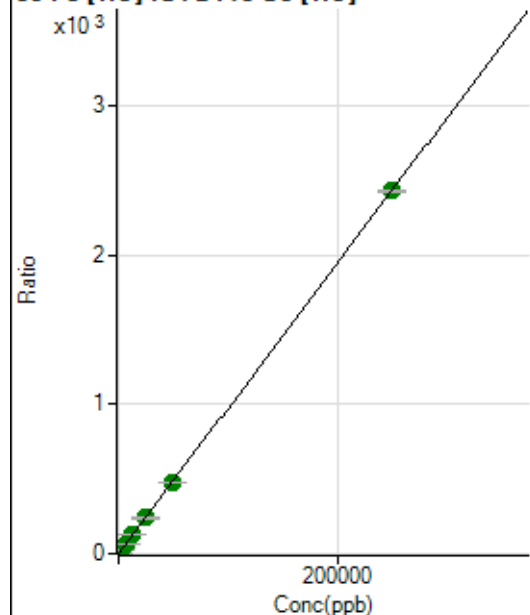
$$R = 1.0000$$

$$DL = 0.02659$$

$$BEC = 0.08009$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3081.88	0.0291	P	3.7
2	☐	50.000	47.105	52136.02	0.4873	P	3.5
3	☐	2500.000	2641.048	2749227.49	25.7191	A	0.5
4	☐	6250.000	6519.698	6526604.37	63.4476	A	0.9
5	☐	12500.000	12857.669	12901203.53	125.0985	A	0.7
6	☐	25000.000	24824.527	24859384.58	241.5027	A	4.1
7	☐	50000.000	49200.660	49488422.86	478.6147	A	0.9
8	☐	250000.00	250151.37	248764431.4	2,433.306	A	0.5

$$y = 0.0097 * x + 0.0291$$

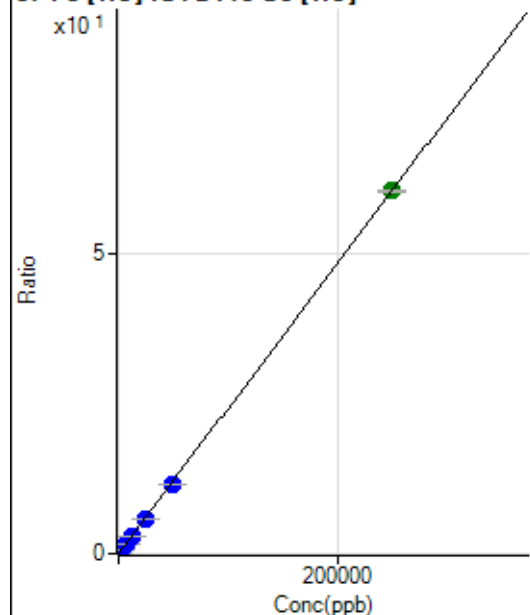
$$R = 1.0000$$

$$DL = 0.333$$

$$BEC = 2.99$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	248.16	0.0023	P	6.1
2	☐	50.000	43.730	1381.57	0.0129	P	8.3
3	☐	2500.000	2492.011	64699.95	0.6054	P	2.0
4	☐	6250.000	6365.063	158660.58	1.5426	P	1.4
5	☐	12500.000	12331.737	307969.62	2.9864	P	0.8
6	☐	25000.000	24099.005	600596.61	5.8339	P	3.0
7	☐	50000.000	48191.923	1206062.16	11.6640	P	0.5
8	☐	250000.00	250457.33	6196054.07	60.6092	A	0.8

$$y = 2.4198E-004 * x + 0.0023$$

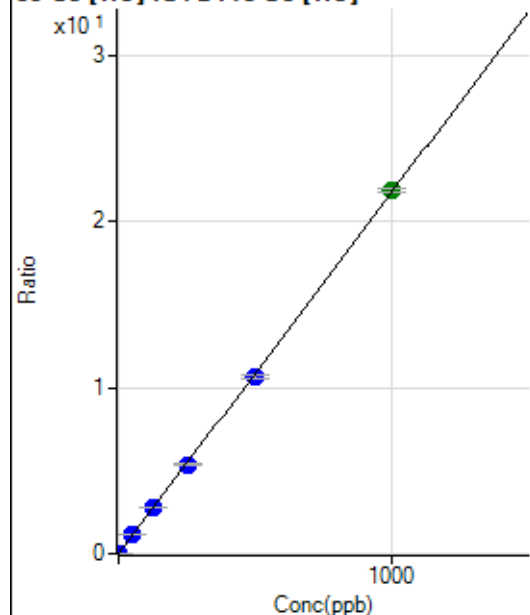
$$R = 1.0000$$

$$DL = 1.775$$

$$BEC = 9.674$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0006	P	4.8
2	☐	1.000	0.945	2264.65	0.0212	P	5.5
3	☐	50.000	51.238	119155.26	1.1148	P	0.7
4	☐	125.000	127.695	285646.77	2.7772	P	0.7
5	☐	250.000	247.502	555024.21	5.3823	P	1.8
6	☐	500.000	490.406	1098028.07	10.6641	P	1.6
7	☐	1000.000	1005.023	2259717.64	21.8540	A	0.9
8	☐			5742.33	0.0562	P	3.5

$$y = 0.0217 * x + 6.2906E-004$$

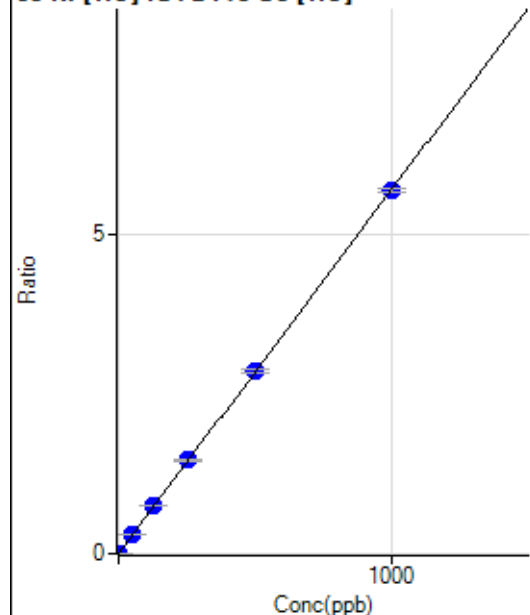
$$R = 0.9999$$

$$DL = 0.004204$$

$$BEC = 0.02893$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	135.56	0.0013	P	19.6
2	☐	1.000	1.038	768.92	0.0072	P	11.3
3	☐	50.000	53.333	32595.22	0.3050	P	3.5
4	☐	125.000	131.120	76949.04	0.7481	P	1.9
5	☐	250.000	256.925	151025.43	1.4646	P	1.4
6	☐	500.000	500.273	293478.56	2.8505	P	2.4
7	☐	1000.000	997.201	587365.89	5.6807	P	0.9
8	☐			1877.92	0.0184	P	6.8

$$y = 0.0057 * x + 0.0013$$

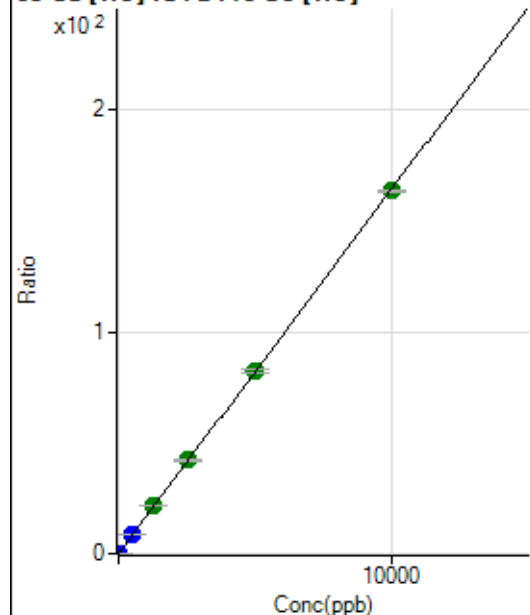
$$R = 1.0000$$

$$DL = 0.1321$$

$$BEC = 0.2248$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	408.90	0.0039	P	6.3
2	☐	2.000	1.915	3779.43	0.0353	P	4.0
3	☐	500.000	511.793	899443.98	8.4150	P	0.9
4	☐	1250.000	1339.097	2264100.52	22.0114	A	0.5
5	☐	2500.000	2564.859	4347257.99	42.1563	A	1.7
6	☐	5000.000	5026.965	8506199.52	82.6200	A	2.3
7	☐	10000.000	9958.576	16923551.97	163.6691	A	0.4
8	☐			9472.67	0.0927	P	10.2

$$y = 0.0164 * x + 0.0039$$

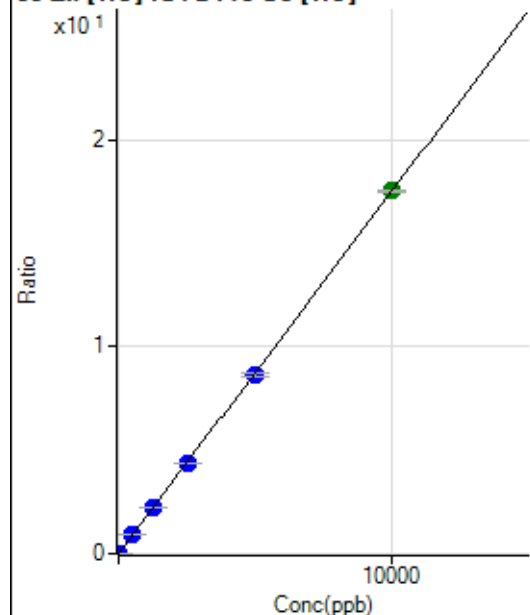
$$R = 0.9999$$

$$DL = 0.04418$$

$$BEC = 0.2349$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	146.67	0.0014	P	10.4
2	☐	2.000	2.356	588.91	0.0055	P	5.2
3	☐	500.000	508.428	95255.42	0.8912	P	1.0
4	☐	1250.000	1270.075	228735.45	2.2241	P	1.2
5	☐	2500.000	2507.180	452648.50	4.3892	P	0.2
6	☐	5000.000	4948.775	891809.53	8.6623	P	2.5
7	☐	10000.000	10020.887	1813616.46	17.5390	A	0.8
8	☐			5413.31	0.0530	P	4.1

$$y = 0.0018 * x + 0.0014$$

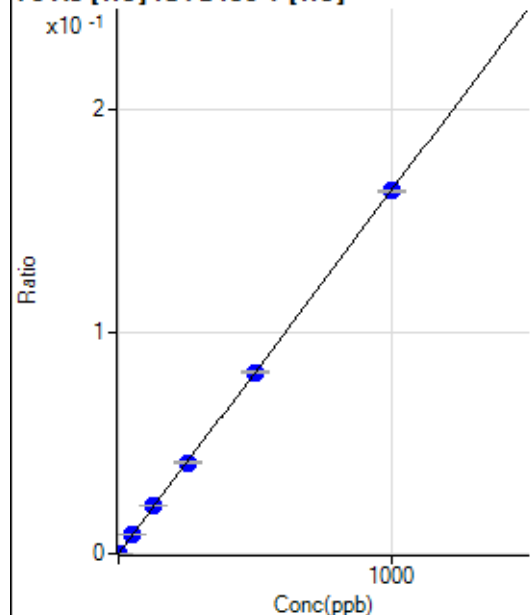
$$R = 1.0000$$

$$DL = 0.2467$$

$$BEC = 0.7908$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.67	0.0000	P	57.0
2	☐	1.000	0.979	118.01	0.0002	P	6.0
3	☐	50.000	52.773	6089.93	0.0086	P	3.0
4	☐	125.000	130.535	14663.40	0.0214	P	0.7
5	☐	250.000	250.910	28597.66	0.0411	P	0.8
6	☐	500.000	500.199	56786.94	0.0819	P	1.6
7	☐	1000.000	998.842	114111.41	0.1635	P	0.3
8	☐			64.01	0.0001	P	19.8

$$y = 1.6369E-004 * x + 8.1494E-006$$

$$R = 1.0000$$

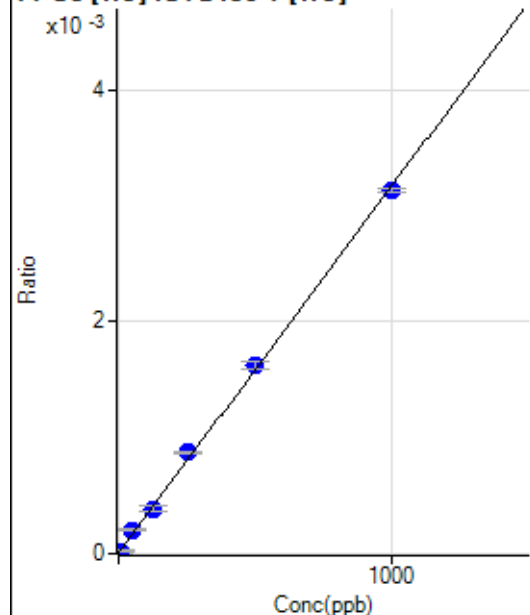
$$DL = 0.0851$$

$$BEC = 0.04979$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.44	0.0000	P	43.4
2	☐	5.000	5.058	15.56	0.0000	P	76.6
3	☐	50.000	63.380	145.56	0.0002	P	4.8
4	☐	125.000	119.416	263.34	0.0004	P	11.8
5	☐	250.000	274.239	607.80	0.0009	P	2.4
6	☐	500.000	512.986	1128.95	0.0016	P	3.9
7	☐	1000.000	987.476	2182.42	0.0031	P	1.2
8	☐			2.22	0.0000	P	86.6

$$y = 3.1603\text{E-}006 * x + 6.3845\text{E-}006$$

$$R = 0.9994$$

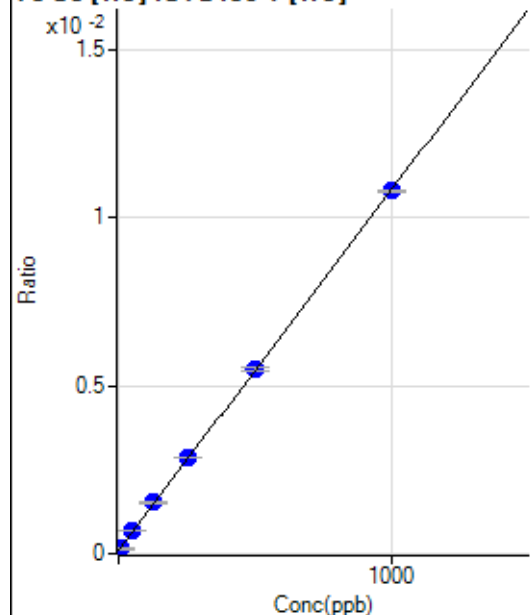
$$DL = 2.627$$

$$BEC = 2.02$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	68.01	0.0001	P	6.8
2	☐	5.000	4.227	100.34	0.0001	P	2.9
3	☐	50.000	54.009	477.39	0.0007	P	0.9
4	☐	125.000	132.868	1045.48	0.0015	P	2.1
5	☐	250.000	257.375	1991.68	0.0029	P	1.2
6	☐	500.000	500.936	3797.57	0.0055	P	2.3
7	☐	1000.000	996.508	7534.45	0.0108	P	0.8
8	☐			65.68	0.0001	P	9.1

$$y = 1.0736\text{E-}005 * x + 9.7772\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.868$$

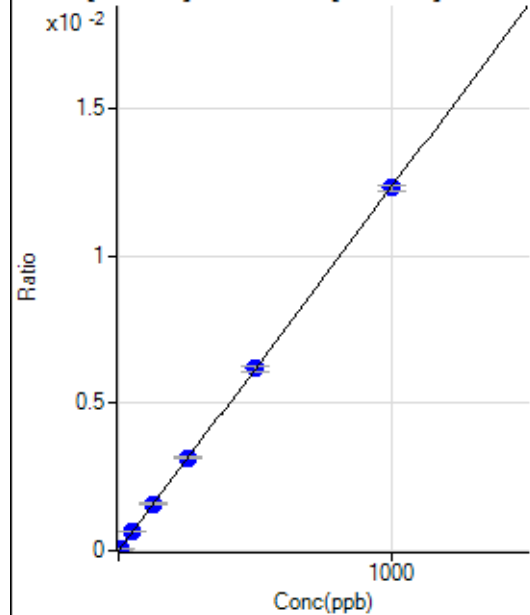
$$BEC = 9.107$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			15234.01		P	2.3
2	☐			14392.23		P	2.7
3	☐			15608.19		P	2.2
4	☐			14455.84		P	6.3
5	☐			16266.42		P	1.3
6	☐			15377.81		P	5.2
7	☐			15835.42		P	4.3
8	☐			15180.67		P	4.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-1.20	0.0000	P	-4130.
2	☐	5.000	4.508	310.51	0.0001	P	19.4
3	☐	50.000	53.363	3660.09	0.0007	P	0.3
4	☐	125.000	129.129	8967.18	0.0016	P	2.1
5	☐	250.000	255.245	17854.78	0.0032	P	2.1
6	☐	500.000	500.835	36000.40	0.0062	P	3.1
7	☐	1000.000	997.589	73189.89	0.0123	P	1.4
8	☐			127.42	0.0000	P	29.0

$$y = 1.2357E-005 * x - 2.1337E-007$$

$$R = 1.0000$$

$$DL = 2.14$$

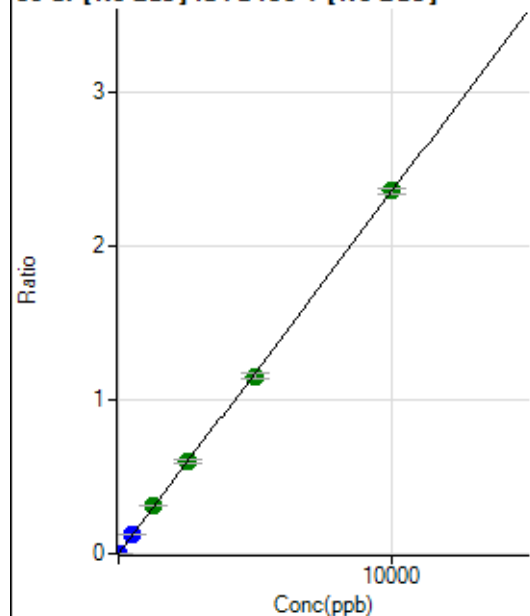
$$BEC = -0.01727$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			682.25		P	8.1
2	☐			665.58		P	10.0
3	☐			673.36		P	8.2
4	☐			718.92		P	8.4
5	☐			724.47		P	6.0
6	☐			704.47		P	8.9
7	☐			745.58		P	5.0
8	☐			698.91		P	6.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1172.30	0.0002	P	12.2
2	☐	1.000	0.959	2450.28	0.0004	P	5.3
3	☐	500.000	523.100	683603.36	0.1231	P	1.9
4	☐	1250.000	1336.590	1766319.59	0.3143	A	2.0
5	☐	2500.000	2557.190	3402347.51	0.6011	A	2.8
6	☐	5000.000	4905.468	6705402.84	1.1528	A	3.9
7	☐	10000.000	10020.989	13981763.16	2.3548	A	1.5
8	☐			12931.57	0.0022	P	4.8

$$y = 2.3497E-004 * x + 2.1310E-004$$

$$R = 0.9999$$

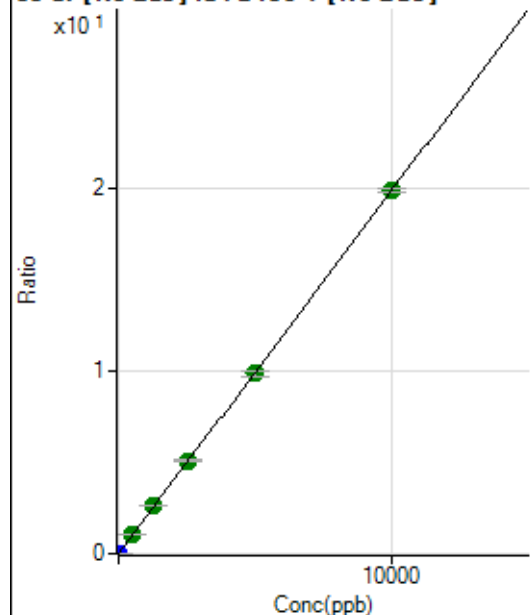
$$DL = 0.3314$$

$$BEC = 0.9069$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	244.45	0.0000	P	20.9
2	☐	1.000	0.979	11118.68	0.0020	P	4.7
3	☐	500.000	525.893	5798168.32	1.0443	A	1.5
4	☐	1250.000	1318.328	14714099.11	2.6178	A	1.4
5	☐	2500.000	2557.004	28750049.25	5.0774	A	1.3
6	☐	5000.000	4957.556	57265838.08	9.8441	A	3.1
7	☐	10000.000	9997.135	117868651.2	19.8511	A	1.2
8	☐			99459.76	0.0166	P	0.6

$$y = 0.0020 * x + 4.4567E-005$$

$$R = 1.0000$$

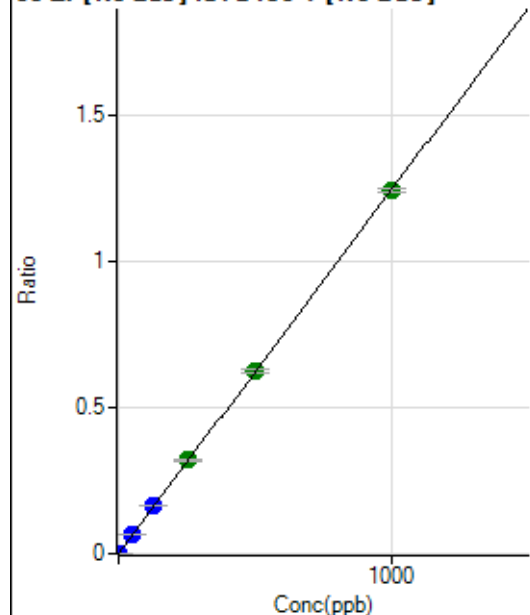
$$DL = 0.01409$$

$$BEC = 0.02244$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	363.91	0.0001	P	10.4
2	☐	1.000	0.915	6726.81	0.0012	P	3.2
3	☐	50.000	52.502	362884.11	0.0653	P	2.3
4	☐	125.000	131.007	916032.90	0.1630	P	0.3
5	☐	250.000	257.342	1811964.84	0.3200	A	1.4
6	☐	500.000	500.475	3620841.05	0.6223	A	2.5
7	☐	1000.000	997.051	7361360.67	1.2398	A	0.9
8	☐			5195.56	0.0009	P	3.1

$$y = 0.0012 * x + 6.6244E-005$$

$$R = 1.0000$$

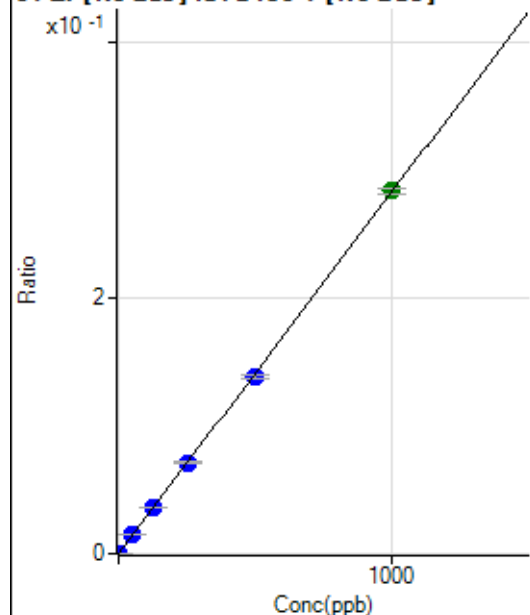
$$DL = 0.01661$$

$$BEC = 0.05328$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	21.8
2	☐	1.000	0.911	1514.02	0.0003	P	6.8
3	☐	50.000	51.996	81643.49	0.0147	P	0.6
4	☐	125.000	127.169	202006.90	0.0359	P	2.1
5	☐	250.000	251.904	403023.80	0.0712	P	1.1
6	☐	500.000	489.643	804942.54	0.1383	P	2.2
7	☐	1000.000	1004.332	1684667.66	0.2838	A	1.9
8	☐			1238.98	0.0002	P	16.3

$$y = 2.8252\text{E-}004 * x + 1.3640\text{E-}005$$

$$R = 0.9999$$

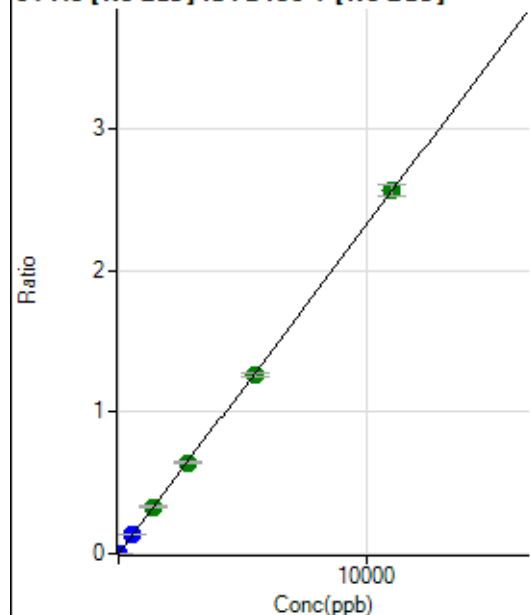
$$DL = 0.03158$$

$$BEC = 0.04828$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	152.78	0.0000	P	12.1
2	☐	5.000	5.749	7632.86	0.0014	P	0.8
3	☐	550.000	581.410	751422.74	0.1353	P	0.1
4	☐	1375.000	1429.434	1869728.90	0.3327	A	2.6
5	☐	2750.000	2774.086	3655482.81	0.6456	A	1.3
6	☐	5500.000	5427.955	7349336.62	1.2632	A	2.4
7	☐	11000.000	11021.626	15226796.00	2.5650	A	3.1
8	☐			6599.01	0.0011	P	8.4

$$y = 2.3272\text{E-}004 * x + 2.7754\text{E-}005$$

$$R = 1.0000$$

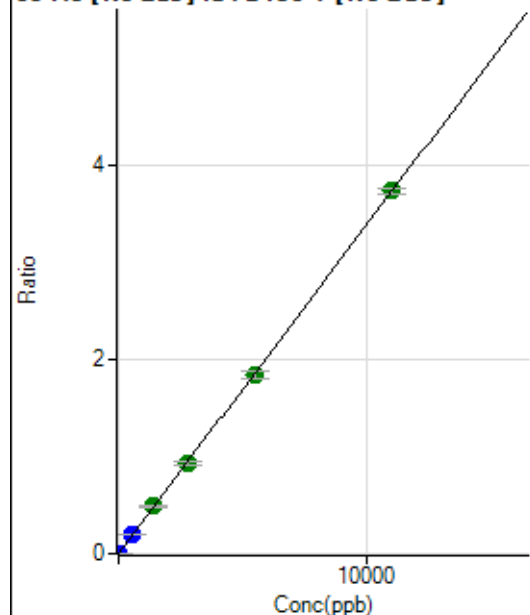
$$DL = 0.04323$$

$$BEC = 0.1193$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	27.3
2	☐	5.000	5.053	9589.68	0.0017	P	1.6
3	☐	550.000	573.743	1077834.06	0.1941	P	1.7
4	☐	1375.000	1438.751	2735811.52	0.4868	A	2.8
5	☐	2750.000	2752.333	5271207.06	0.9312	A	2.6
6	☐	5500.000	5428.278	10681599.11	1.8365	A	4.2
7	☐	11000.000	11026.122	22150518.20	3.7305	A	1.6
8	☐			7783.07	0.0013	P	8.5

$$y = 3.3833\text{E-}004 * x + 6.5791\text{E-}006$$

$$R = 0.9999$$

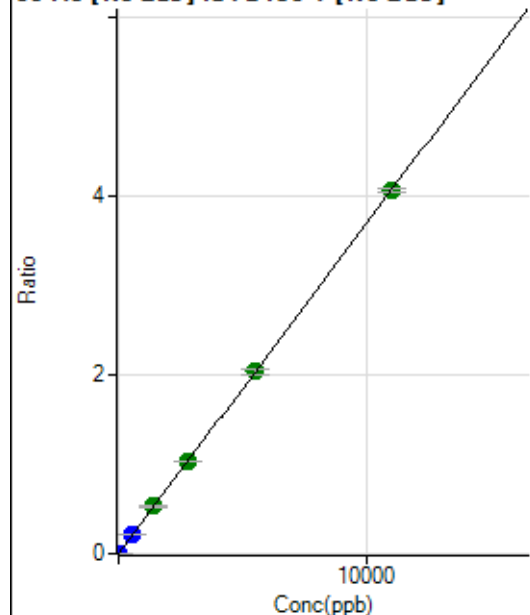
$$DL = 0.01593$$

$$BEC = 0.01945$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	177.79	0.0000	P	22.4
2	☐	5.000	4.921	10356.90	0.0019	P	1.8
3	☐	550.000	576.144	1183612.03	0.2132	P	0.1
4	☐	1375.000	1437.557	2989043.12	0.5318	A	2.6
5	☐	2750.000	2790.609	5845017.36	1.0324	A	1.5
6	☐	5500.000	5511.030	11858830.56	2.0388	A	3.7
7	☐	11000.000	10975.206	24108859.39	4.0602	A	1.1
8	☐			14241.60	0.0024	P	9.6

$$y = 3.6994\text{E-}004 * x + 3.2381\text{E-}005$$

$$R = 1.0000$$

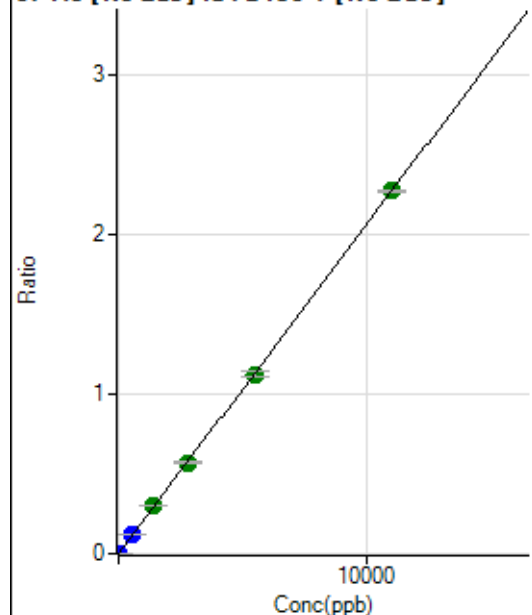
$$DL = 0.05871$$

$$BEC = 0.08753$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	43.0
2	☐	5.000	4.880	5670.76	0.0010	P	5.0
3	☐	550.000	579.466	665409.22	0.1198	P	1.4
4	☐	1375.000	1451.992	1687755.81	0.3003	A	2.6
5	☐	2750.000	2752.917	3222890.28	0.5693	A	2.6
6	☐	5500.000	5450.550	6557708.74	1.1273	A	3.0
7	☐	11000.000	11012.898	13525772.61	2.2776	A	0.6
8	☐			4448.12	0.0007	P	17.8

$$y = 2.0681\text{E-}004 * x + 5.5794\text{E-}006$$

$$R = 1.0000$$

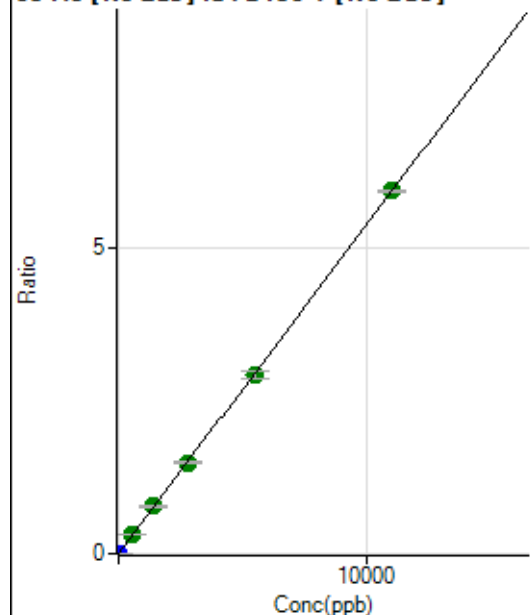
$$DL = 0.03477$$

$$BEC = 0.02698$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	86.11	0.0000	P	18.4
2	☐	5.000	4.935	14947.34	0.0027	P	4.1
3	☐	550.000	579.068	1732760.24	0.3120	A	2.6
4	☐	1375.000	1437.881	4354626.27	0.7748	A	1.8
5	☐	2750.000	2756.672	8407659.21	1.4853	A	2.9
6	☐	5500.000	5434.576	17033763.75	2.9282	A	3.4
7	☐	11000.000	11021.731	35266802.18	5.9386	A	0.5
8	☐			12274.08	0.0020	P	13.1

$$y = 5.3880\text{E-}004 * x + 1.5627\text{E-}005$$

$$R = 1.0000$$

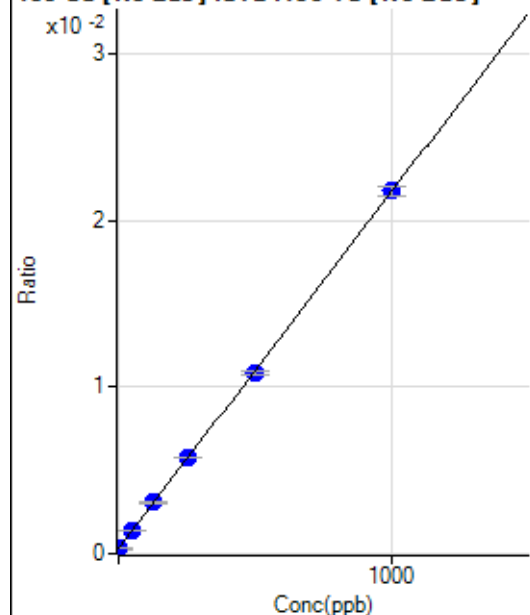
$$DL = 0.01604$$

$$BEC = 0.029$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1219.54	0.0003	P	14.1
2	☐	1.000	0.929	1316.76	0.0003	P	5.0
3	☐	50.000	50.784	5706.89	0.0014	P	5.5
4	☐	125.000	130.045	12500.47	0.0031	P	5.0
5	☐	250.000	254.454	24185.77	0.0058	P	0.9
6	☐	500.000	491.934	47148.19	0.0109	P	2.2
7	☐	1000.000	1002.250	95162.06	0.0218	P	2.4
8	☐			1275.09	0.0003	P	5.5

$$y = 2.1438\text{E-}005 * x + 3.0683\text{E-}004$$

$$R = 0.9999$$

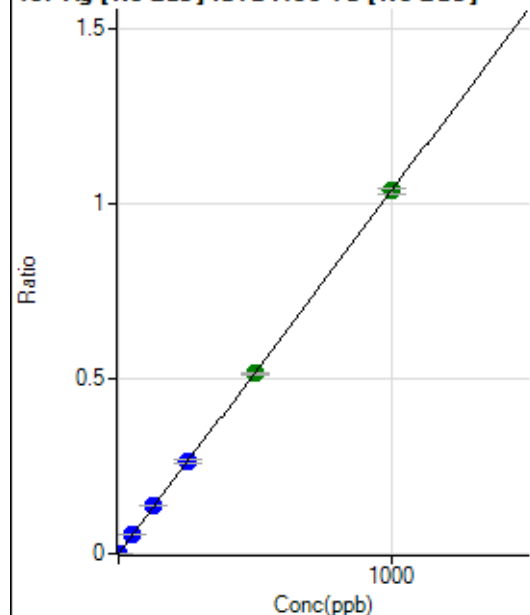
$$DL = 6.046$$

$$BEC = 14.31$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	78.0
2	☐	1.000	0.915	3853.44	0.0010	P	2.9
3	☐	50.000	52.912	224782.64	0.0549	P	1.8
4	☐	125.000	133.633	560584.64	0.1388	P	2.0
5	☐	250.000	254.153	1107280.80	0.2639	P	3.4
6	☐	500.000	495.670	2236568.43	0.5147	A	0.8
7	☐	1000.000	999.902	4534505.61	1.0382	A	1.5
8	☐			1533.46	0.0003	P	14.5

$$y = 0.0010 * x + 5.5953\text{E-}006$$

$$R = 0.9999$$

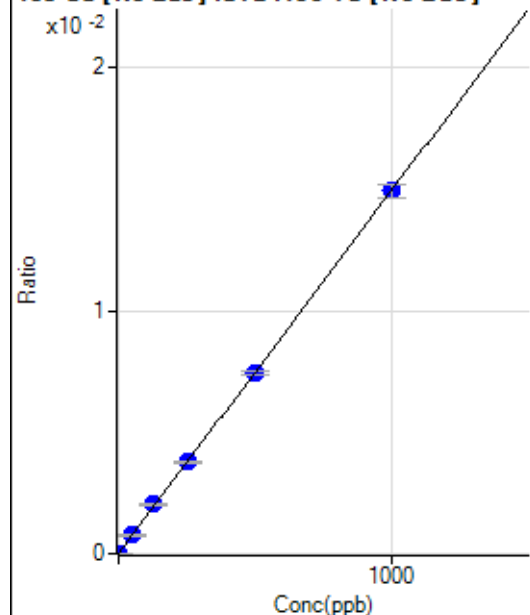
$$DL = 0.0126$$

$$BEC = 0.005389$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	37.50	0.0000	P	18.1
2	☐	1.000	0.754	83.33	0.0000	P	24.8
3	☐	50.000	50.062	3099.00	0.0008	P	2.9
4	☐	125.000	135.537	8216.43	0.0020	P	2.3
5	☐	250.000	251.315	15788.35	0.0038	P	3.8
6	☐	500.000	497.985	32356.23	0.0074	P	2.5
7	☐	1000.000	999.359	65207.79	0.0149	P	3.8
8	☐			72.22	0.0000	P	27.2

$$y = 1.4937E-005 * x + 9.4138E-006$$

$$R = 0.9999$$

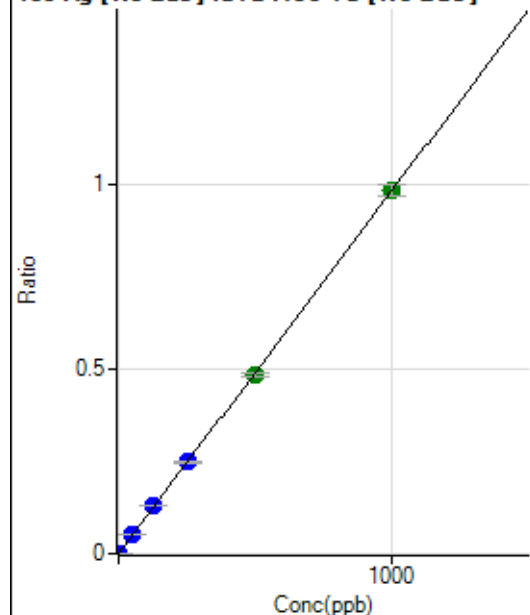
$$DL = 0.3415$$

$$BEC = 0.6302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	35.5
2	☐	1.000	0.967	3853.41	0.0010	P	6.8
3	☐	50.000	52.760	211270.82	0.0517	P	3.2
4	☐	125.000	132.977	525842.85	0.1302	P	2.8
5	☐	250.000	252.946	1039061.97	0.2476	P	3.0
6	☐	500.000	493.881	2100370.42	0.4835	A	2.3
7	☐	1000.000	1001.188	4279353.09	0.9801	A	3.0
8	☐			1597.36	0.0004	P	16.8

$$y = 9.7893E-004 * x + 9.0868E-006$$

$$R = 0.9999$$

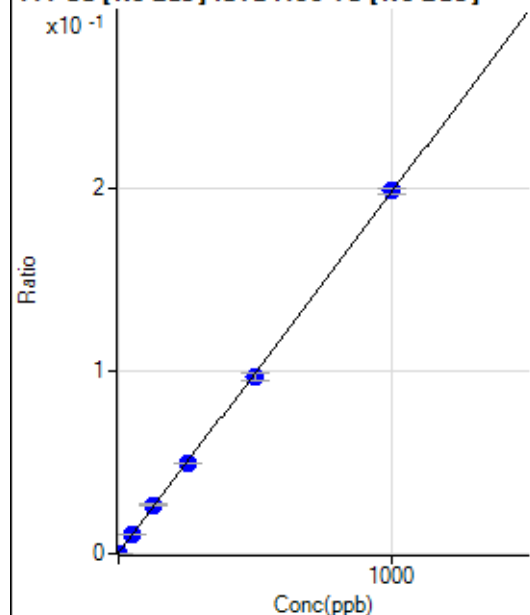
$$DL = 0.009875$$

$$BEC = 0.009282$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	862.15	0.0002	P	15.1
2	☐	1.000	0.987	1660.66	0.0004	P	3.5
3	☐	50.000	52.234	43153.02	0.0105	P	1.2
4	☐	125.000	133.733	107710.99	0.0267	P	3.1
5	☐	250.000	250.326	208781.70	0.0497	P	0.2
6	☐	500.000	490.558	422355.12	0.0972	P	4.1
7	☐	1000.000	1003.436	867894.30	0.1987	P	1.7
8	☐			1187.85	0.0003	P	8.6

$$y = 1.9779\text{E-}004 * x + 2.1694\text{E-}004$$

$$R = 0.9999$$

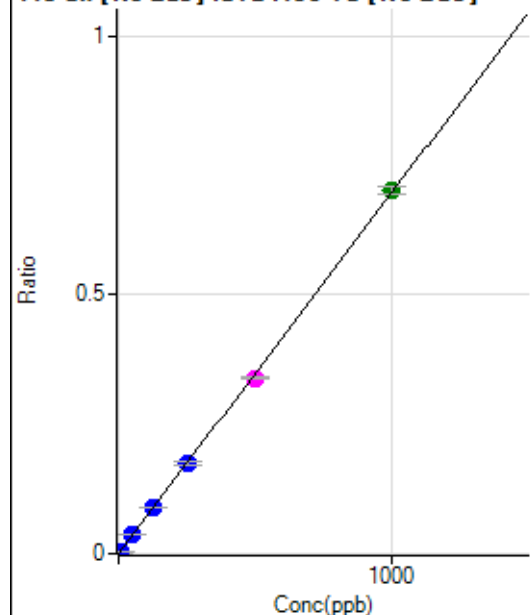
$$DL = 0.4959$$

$$BEC = 1.097$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	444.47	0.0001	P	10.8
2	☐	5.000	4.906	14210.60	0.0035	P	2.2
3	☐	50.000	51.578	147325.72	0.0360	P	0.7
4	☐	125.000	128.148	360736.37	0.0893	P	2.4
5	☐	250.000	251.805	735826.73	0.1754	P	3.3
6	☐	500.000	486.289	1471046.14	0.3386	M	1.5
7	☐	1000.000	1005.932	3058293.15	0.7002	A	2.2
8	☐			2747.59	0.0006	P	9.0

$$y = 6.9601\text{E-}004 * x + 1.1172\text{E-}004$$

$$R = 0.9999$$

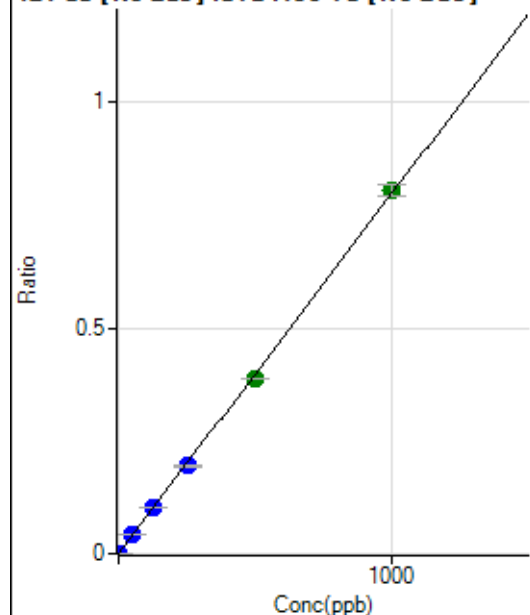
$$DL = 0.05216$$

$$BEC = 0.1605$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	99.0
2	☐	2.000	1.902	6123.77	0.0015	P	5.7
3	☐	50.000	50.926	165922.18	0.0406	P	0.3
4	☐	125.000	128.685	413927.86	0.1025	P	2.1
5	☐	250.000	244.013	815274.43	0.1943	P	3.0
6	☐	500.000	484.883	1677678.10	0.3861	A	0.1
7	☐	1000.000	1008.548	3506396.83	0.8030	A	3.3
8	☐			3094.91	0.0007	P	6.6

$$y = 7.9621\text{E-}004 * x + 4.8873\text{E-}006$$

$$R = 0.9998$$

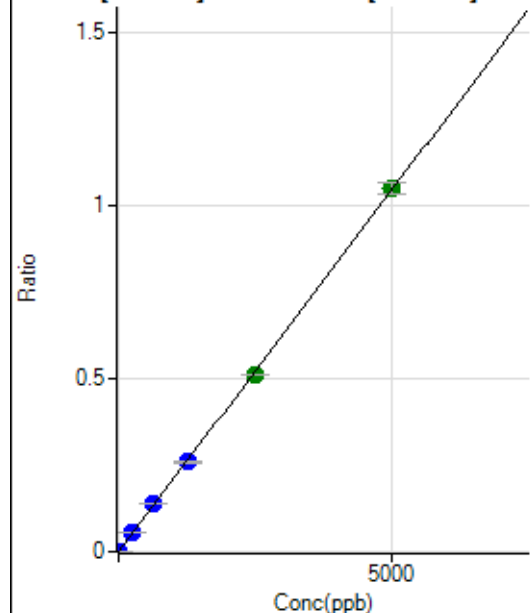
$$DL = 0.01823$$

$$BEC = 0.006138$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	27.5
2	☐	10.000	9.635	8149.91	0.0020	P	1.9
3	☐	250.000	253.450	216718.86	0.0530	P	0.4
4	☐	625.000	664.161	560625.29	0.1388	P	2.6
5	☐	1250.000	1240.607	1087726.56	0.2592	P	3.4
6	☐	2500.000	2454.259	2228576.70	0.5128	A	0.3
7	☐	5000.000	5020.152	4581188.51	1.0490	A	3.0
8	☐			2294.75	0.0005	P	6.0

$$y = 2.0896\text{E-}004 * x + 9.0970\text{E-}006$$

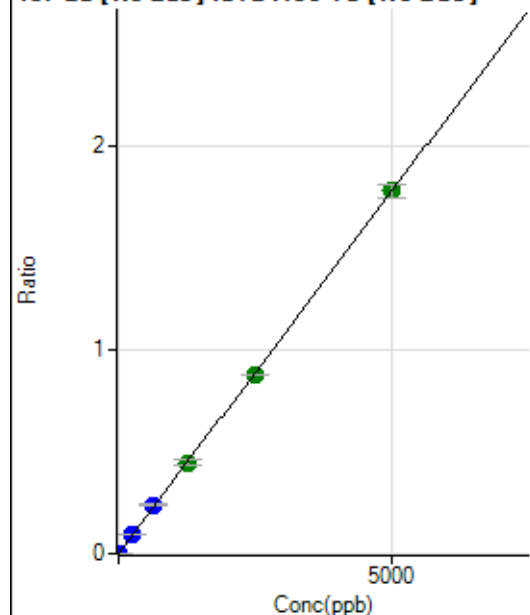
$$R = 0.9999$$

$$DL = 0.03597$$

$$BEC = 0.04354$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	12.5
2	☐	10.000	9.397	13507.11	0.0034	P	2.1
3	☐	250.000	257.264	374341.28	0.0915	P	0.7
4	☐	625.000	676.315	971686.47	0.2405	P	2.1
5	☐	1250.000	1259.797	1879200.50	0.4480	A	5.1
6	☐	2500.000	2463.158	3806679.99	0.8760	A	0.5
7	☐	5000.000	5009.196	7778353.04	1.7814	A	4.0
8	☐			4122.98	0.0009	P	10.7

$$y = 3.5562E-004 * x + 9.7776E-006$$

$$R = 0.9999$$

$$DL = 0.0103$$

$$BEC = 0.02749$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	86.6
2	☐			8.89		P	43.3
3	☐			31.11		P	44.6
4	☐			42.22		P	9.1
5	☐			64.45		P	46.7
6	☐			157.78		P	12.9
7	☐			324.46		P	23.1
8	☐			60.00		P	19.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			2.22		P	173.2
4	☐			6.67		P	50.0
5	☐			8.89		P	21.6
6	☐			20.00		P	28.9
7	☐			31.11		P	27.0
8	☐			12.22		P	31.5

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	99.0
2	☐			27.78		P	45.8
3	☐			33.33		P	86.6
4	☐			44.45		P	10.8
5	☐			66.67		P	45.1
6	☐			130.56		P	13.3
7	☐			208.34		P	30.2
8	☐			666.70		P	9.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	114.6
2	☐			1.11		P	173.2
3	☐			10.00		P	57.7
4	☐			15.56		P	65.5
5	☐			20.00		P	44.1
6	☐			55.56		P	18.3
7	☐			106.67		P	6.3
8	☐			288.89		P	3.7

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			50.00		P	44.1
2	☐			36.11		P	48.0
3	☐			25.00		P	57.7
4	☐			44.44		P	39.0
5	☐			72.22		P	24.0
6	☐			88.89		P	27.1
7	☐			169.45		P	10.2
8	☐			630.59		P	18.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	48.2
2	☐			28.89		P	43.7
3	☐			25.55		P	41.9
4	☐			28.89		P	35.2
5	☐			57.78		P	21.8
6	☐			87.78		P	12.2
7	☐			114.45		P	9.4
8	☐			385.57		P	11.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	43.3
2	☐			25.00		P	33.3
3	☐			41.67		P	40.0
4	☐			25.00		P	33.3
5	☐			33.34		P	43.3
6	☐			72.22		P	54.5
7	☐			77.78		P	44.6
8	☐			127.78		P	22.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	17.3
2	☐			13.33		P	25.0
3	☐			17.78		P	28.6
4	☐			15.56		P	32.7
5	☐			27.78		P	30.2
6	☐			20.00		P	16.7
7	☐			55.56		P	25.0
8	☐			42.22		P	16.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	173.2
2	☐			19.44		P	89.2
3	☐			25.00		P	0.0
4	☐			33.33		P	50.0
5	☐			41.67		P	20.0
6	☐			52.78		P	9.1
7	☐			94.45		P	27.0
8	☐			69.45		P	25.0

172 Yb [He] No available calibration points

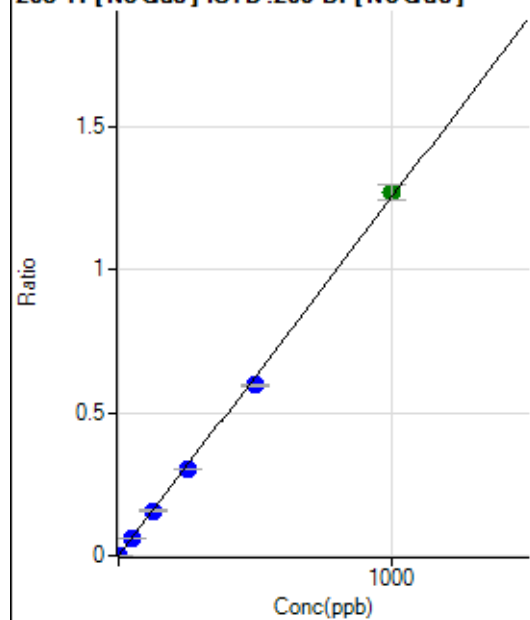
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.71		P	86.6
2	☐			11.11		P	0.0
3	☐			16.67		P	88.2
4	☐			16.67		P	57.7
5	☐			9.26		P	91.7
6	☐			22.22		P	66.1
7	☐			44.45		P	50.0
8	☐			42.59		P	27.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			330.57		P	8.1
2	☐			400.02		P	5.5
3	☐			925.06		P	10.8
4	☐			1889.08		P	2.7
5	☐			3383.87		P	2.6
6	☐			6757.47		P	2.4
7	☐			13223.63		P	5.3
8	☐			483.36		P	9.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2239.12		P	3.5
2	☐			2270.61		P	2.6
3	☐			2472.50		P	6.6
4	☐			3089.31		P	7.3
5	☐			3778.39		P	3.8
6	☐			5473.45		P	4.2
7	☐			8951.32		P	2.4
8	☐			2268.76		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	250.01	0.0001	P	18.6
2	☐	1.000	0.881	2750.39	0.0012	P	7.0
3	☐	50.000	50.420	144133.80	0.0633	P	1.9
4	☐	125.000	125.801	360787.85	0.1578	P	0.8
5	☐	250.000	243.030	712103.23	0.3047	P	0.8
6	☐	500.000	477.338	1436917.87	0.5983	P	1.1
7	☐	1000.000	1012.953	3159877.09	1.2695	A	4.2
8	☐			1244.54	0.0005	P	12.9

$$y = 0.0013 * x + 1.1364E-004$$

$$R = 0.9996$$

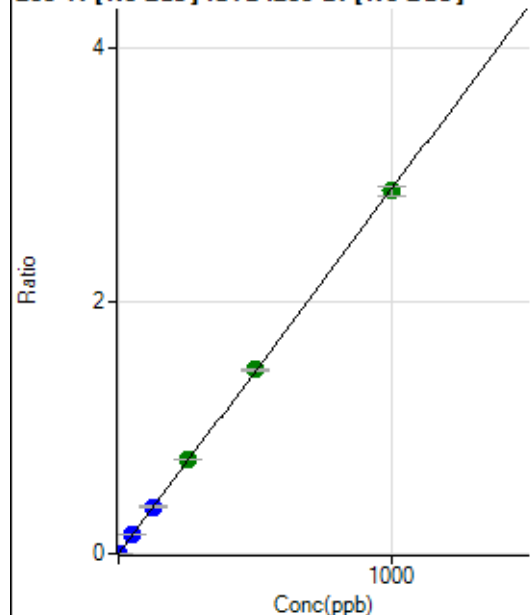
$$DL = 0.05063$$

$$BEC = 0.09068$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	527.81	0.0002	P	5.9
2	☐	1.000	0.909	6474.03	0.0029	P	1.2
3	☐	50.000	51.155	336847.67	0.1480	P	2.7
4	☐	125.000	128.203	847133.27	0.3704	P	1.6
5	☐	250.000	258.345	1744126.54	0.7462	A	1.1
6	☐	500.000	504.303	3498680.03	1.4565	A	1.8
7	☐	1000.000	995.304	7154816.04	2.8743	A	2.9
8	☐			3158.85	0.0013	P	13.7

$$y = 0.0029 * x + 2.3969E-004$$

$$R = 0.9999$$

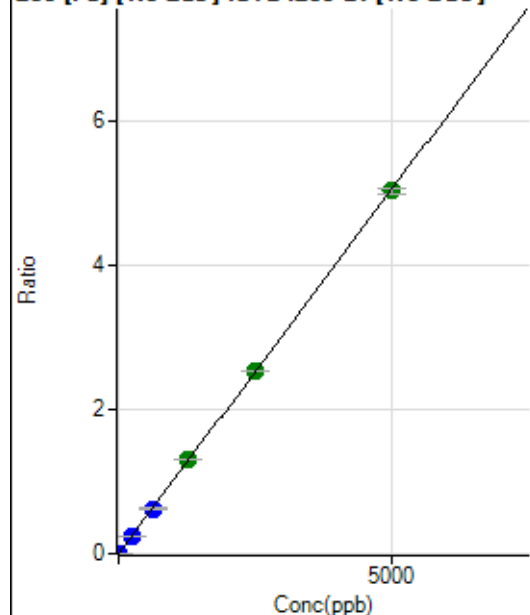
$$DL = 0.01472$$

$$BEC = 0.08301$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	387.05	0.0002	P	8.8
2	☐	1.000	0.975	2616.98	0.0012	P	2.9
3	☐	250.000	245.955	564806.28	0.2481	P	2.2
4	☐	625.000	619.714	1428806.31	0.6248	P	1.6
5	☐	1250.000	1301.868	3067458.55	1.3123	A	0.4
6	☐	2500.000	2510.038	6077568.02	2.5300	A	0.7
7	☐	5000.000	4982.877	12503728.17	5.0224	A	1.4
8	☐			8078.60	0.0034	P	2.8

$$y = 0.0010 * x + 1.7562E-004$$

$$R = 0.9999$$

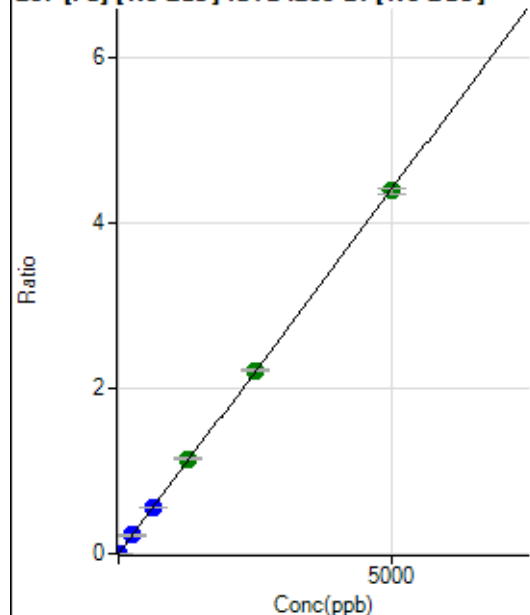
$$DL = 0.0458$$

$$BEC = 0.1742$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	374.09	0.0002	P	7.9
2	☐	1.000	0.950	2278.02	0.0010	P	2.4
3	☐	250.000	251.361	505176.60	0.2219	P	1.9
4	☐	625.000	626.577	1264262.44	0.5528	P	1.3
5	☐	1250.000	1298.832	2677874.19	1.1457	A	1.3
6	☐	2500.000	2514.737	5328449.19	2.2182	A	1.2
7	☐	5000.000	4980.158	10935856.26	4.3927	A	1.8
8	☐			7420.86	0.0031	P	1.9

$$y = 8.8200\text{E-}004 * x + 1.6971\text{E-}004$$

$$R = 0.9999$$

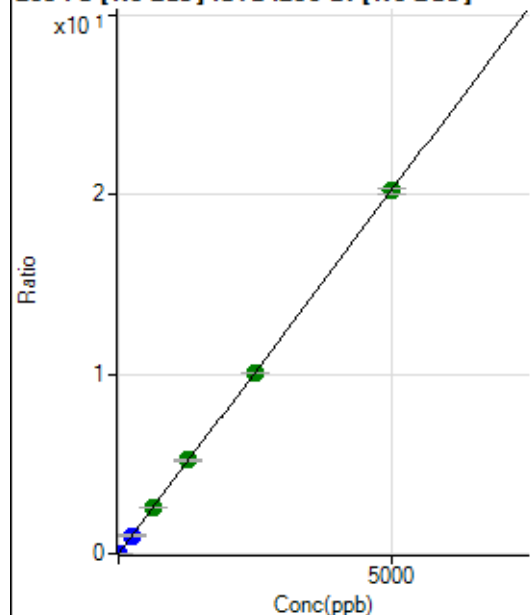
$$DL = 0.04539$$

$$BEC = 0.1924$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1496.36	0.0007	P	6.0
2	☐	1.000	0.945	10164.71	0.0045	P	1.7
3	☐	250.000	249.417	2297215.27	1.0089	P	1.6
4	☐	625.000	642.939	5945060.84	2.5996	A	1.6
5	☐	1250.000	1285.589	12148243.71	5.1974	A	1.0
6	☐	2500.000	2490.994	24187707.78	10.0700	A	0.5
7	☐	5000.000	4993.393	50250304.71	20.1855	A	1.8
8	☐			33984.50	0.0144	P	3.7

$$y = 0.0040 * x + 6.7897\text{E-}004$$

$$R = 1.0000$$

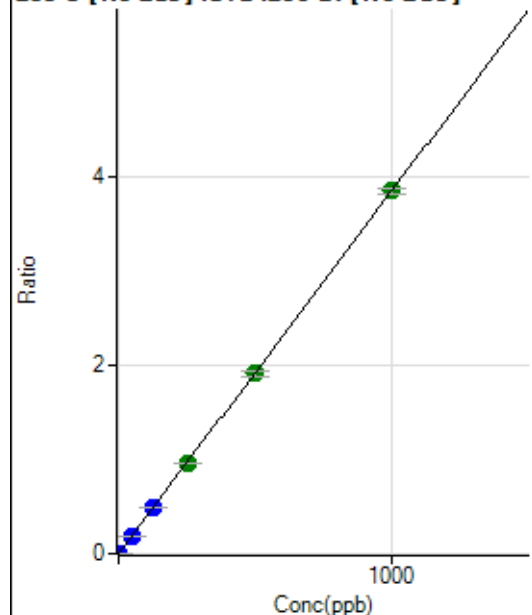
$$DL = 0.03008$$

$$BEC = 0.168$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	34.0
2	☐	1.000	0.915	8002.73	0.0035	P	4.5
3	☐	50.000	48.801	427757.50	0.1879	P	3.7
4	☐	125.000	125.363	1103876.85	0.4827	P	0.5
5	☐	250.000	250.593	2255082.67	0.9649	A	1.0
6	☐	500.000	497.376	4598431.61	1.9150	A	2.7
7	☐	1000.000	1001.179	9597107.59	3.8548	A	1.3
8	☐			2422.56	0.0010	P	7.7

$$y = 0.0039 * x + 1.8874E-005$$

$$R = 1.0000$$

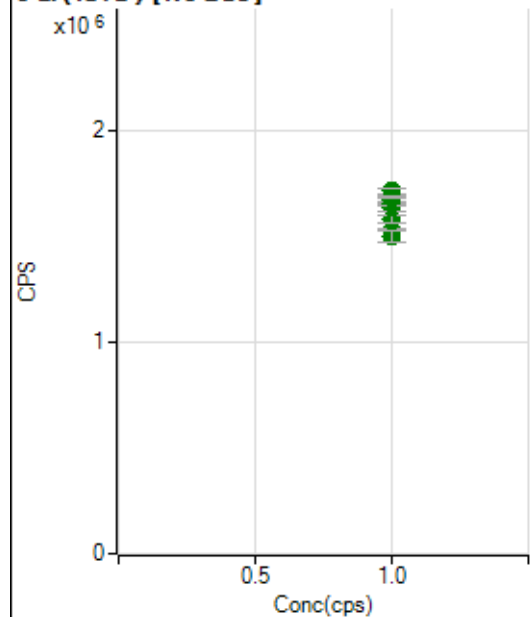
$$DL = 0.004995$$

$$BEC = 0.004902$$

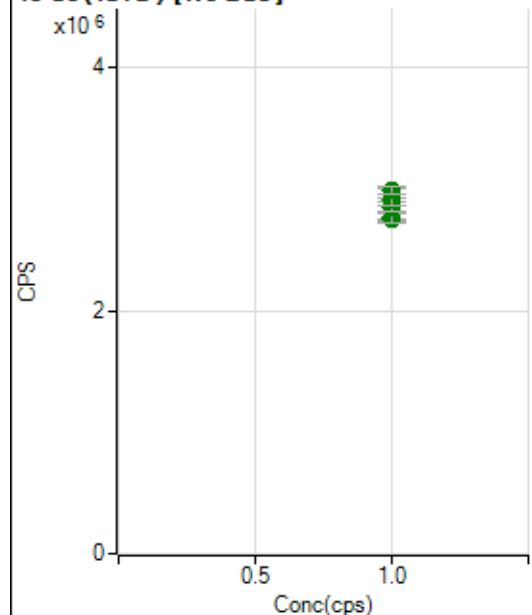
Weight: <None>

Min Conc: 0

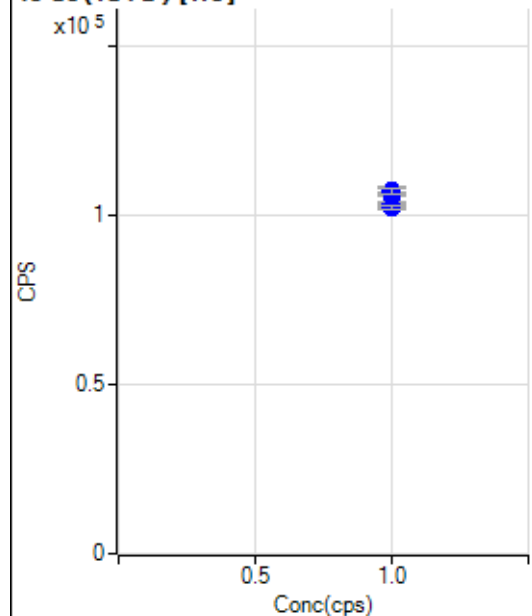
6 Li (ISTD) [No Gas]



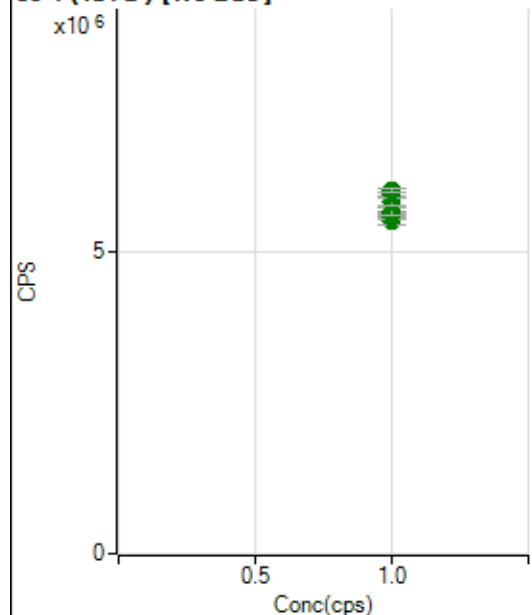
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1528344.20		A	0.6
2	☐	1.000		1498945.48		A	3.8
3	☐	1.000		1577980.05		A	2.3
4	☐	1.000		1632119.24		A	2.2
5	☐	1.000		1674193.89		A	3.1
6	☐	1.000		1652732.28		A	1.0
7	☐	1.000		1714296.61		A	1.7
8	☐	1.000		1683455.30		A	0.5

45 Sc (ISTD) [No Gas]

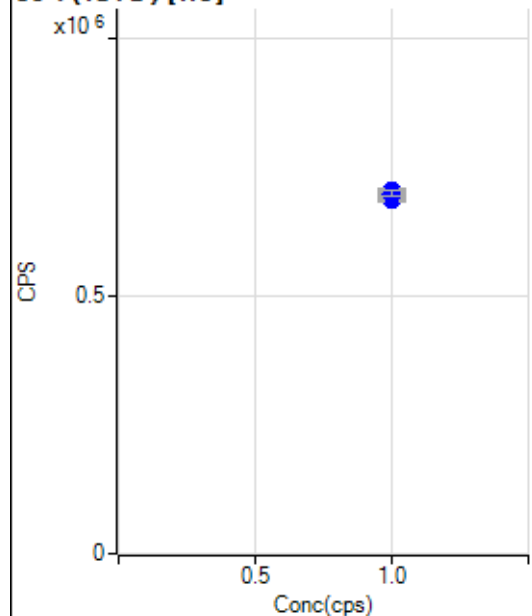
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2752356.45		A	0.2
2	☐	1.000		2776243.57		A	2.7
3	☐	1.000		2761053.38		A	2.8
4	☐	1.000		2843231.28		A	1.5
5	☐	1.000		2906017.91		A	1.0
6	☐	1.000		2913231.76		A	3.1
7	☐	1.000		2986492.91		A	1.3
8	☐	1.000		2986146.72		A	2.2

45 Sc (ISTD) [He]

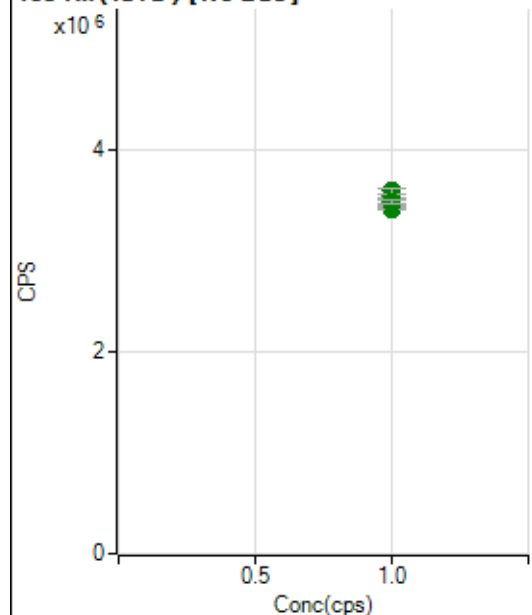
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		105975.07		P	0.9
2	☐	1.000		107020.67		P	2.0
3	☐	1.000		106896.40		P	1.6
4	☐	1.000		102854.96		P	1.8
5	☐	1.000		103126.63		P	0.7
6	☐	1.000		102987.30		P	2.1
7	☐	1.000		103403.21		P	1.0
8	☐	1.000		102233.61		P	1.0

89 Y (ISTD) [No Gas]

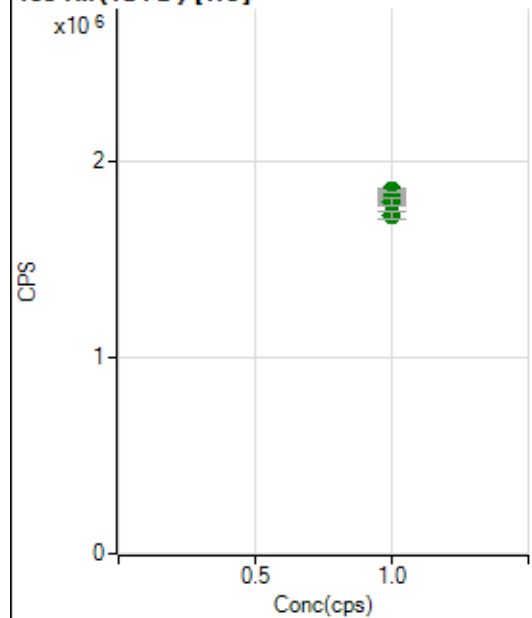
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5497596.10		A	1.9
2	☐	1.000		5588789.29		A	1.2
3	☐	1.000		5552452.21		A	1.2
4	☐	1.000		5621425.68		A	1.3
5	☐	1.000		5662910.40		A	2.3
6	☐	1.000		5820483.87		A	2.7
7	☐	1.000		5938288.31		A	1.6
8	☐	1.000		5996456.02		A	1.0

89 Y (ISTD) [He]

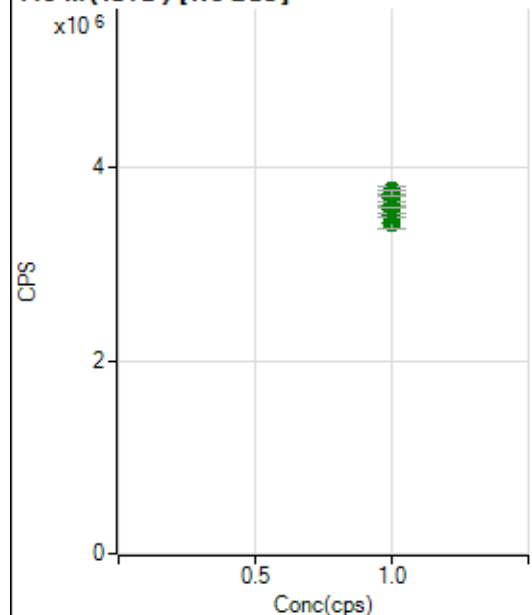
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		695903.28		P	1.0
2	☐	1.000		701090.62		P	2.0
3	☐	1.000		704559.46		P	1.6
4	☐	1.000		685991.06		P	0.8
5	☐	1.000		696175.80		P	0.2
6	☐	1.000		693638.64		P	2.1
7	☐	1.000		697904.55		P	0.7
8	☐	1.000		699715.05		P	1.5

103 Rh (ISTD) [No Gas]

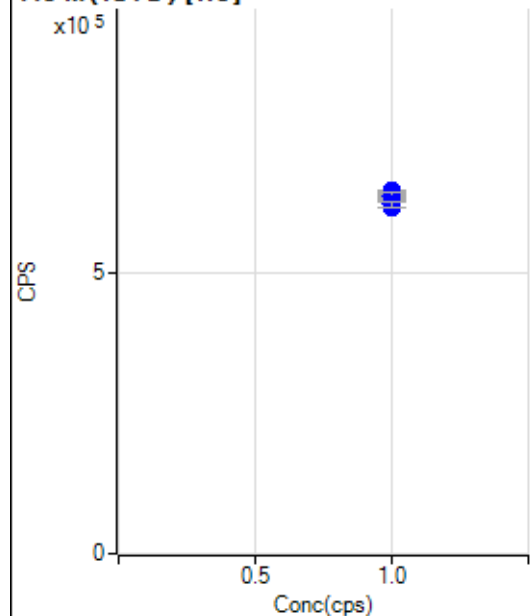
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3423193.52		A	0.9
2	☐	1.000		3479966.40		A	1.4
3	☐	1.000		3488221.86		A	1.3
4	☐	1.000		3544812.19		A	1.2
5	☐	1.000		3486886.89		A	1.3
6	☐	1.000		3551669.96		A	1.3
7	☐	1.000		3599565.49		A	1.8
8	☐	1.000		3499284.32		A	1.0

103 Rh (ISTD) [He]

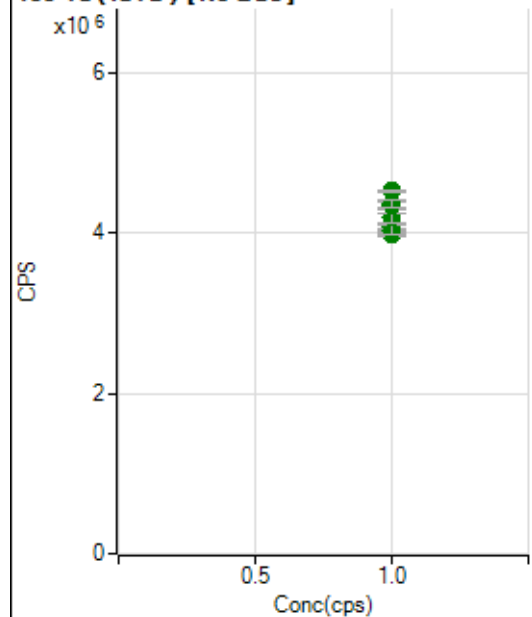
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1814857.56		A	0.7
2	☐	1.000		1851897.87		A	0.4
3	☐	1.000		1843243.53		A	2.3
4	☐	1.000		1791471.64		A	0.6
5	☐	1.000		1845346.57		A	1.0
6	☐	1.000		1819879.80		A	2.5
7	☐	1.000		1797382.85		A	1.9
8	☐	1.000		1725515.11		A	2.3

115 In (ISTD) [No Gas]

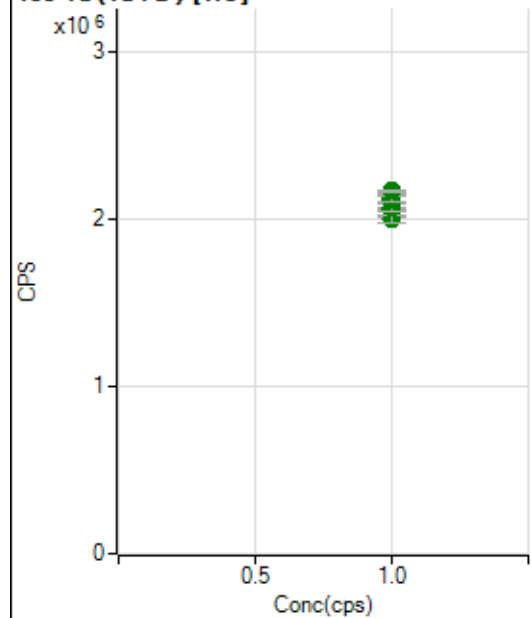
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3428098.78		A	3.6
2	☐	1.000		3501505.49		A	1.3
3	☐	1.000		3558116.60		A	2.2
4	☐	1.000		3610814.48		A	1.2
5	☐	1.000		3677587.45		A	2.1
6	☐	1.000		3682083.51		A	2.5
7	☐	1.000		3754594.94		A	2.3
8	☐	1.000		3725783.87		A	1.8

115 In (ISTD) [He]

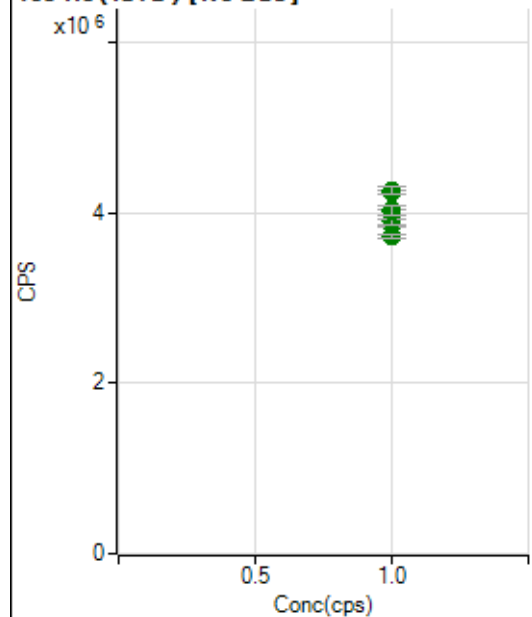
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		640085.57		P	0.6
2	☐	1.000		644183.33		P	1.1
3	☐	1.000		646287.45		P	0.3
4	☐	1.000		629155.25		P	1.0
5	☐	1.000		639272.10		P	0.8
6	☐	1.000		636019.71		P	2.3
7	☐	1.000		617051.69		P	0.1
8	☐	1.000		622280.07		P	1.6

159 Tb (ISTD) [No Gas]

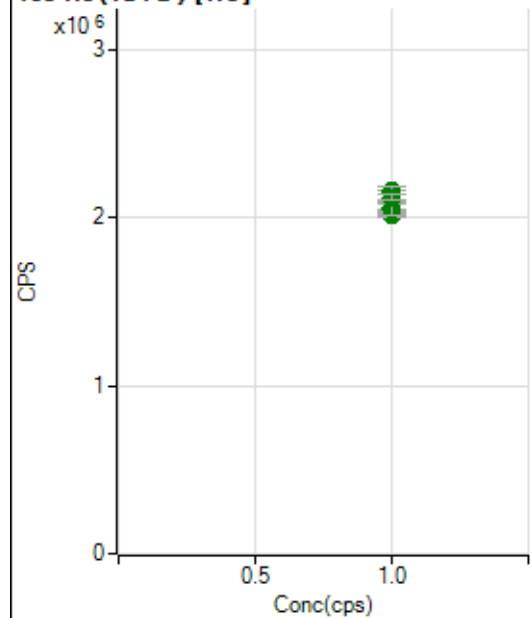
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3977997.27		A	1.3
2	☐	1.000		4030025.39		A	0.3
3	☐	1.000		4091621.33		A	2.1
4	☐	1.000		4041255.35		A	2.7
5	☐	1.000		4198306.71		A	2.7
6	☐	1.000		4345524.21		A	1.9
7	☐	1.000		4368371.11		A	2.5
8	☐	1.000		4531375.94		A	0.2

159 Tb (ISTD) [He]

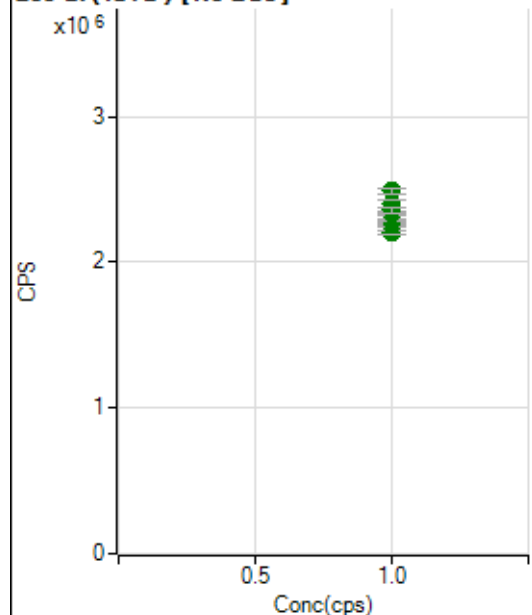
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2017215.70		A	0.8
2	☐	1.000		2039967.25		A	1.3
3	☐	1.000		2055476.27		A	1.0
4	☐	1.000		1999927.85		A	2.6
5	☐	1.000		2070040.28		A	2.3
6	☐	1.000		2126273.30		A	2.4
7	☐	1.000		2115286.41		A	1.6
8	☐	1.000		2167418.49		A	0.7

165 Ho (ISTD) [No Gas]

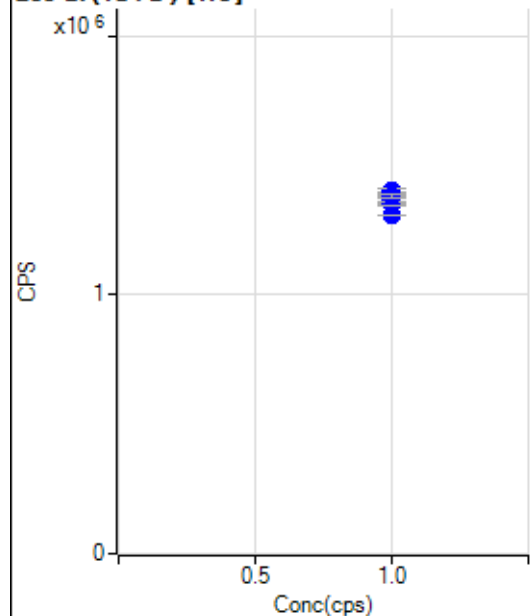
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3730550.91		A	1.3
2	☐	1.000		3894752.08		A	1.5
3	☐	1.000		3855929.64		A	0.6
4	☐	1.000		3896982.85		A	2.0
5	☐	1.000		4006781.95		A	1.4
6	☐	1.000		4033961.89		A	2.9
7	☐	1.000		4242815.77		A	1.2
8	☐	1.000		4255115.59		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2047014.14		A	0.7
2	☐	1.000		2016327.05		A	1.0
3	☐	1.000		2060637.25		A	1.9
4	☐	1.000		2052344.24		A	3.4
5	☐	1.000		2118586.22		A	1.9
6	☐	1.000		2151219.03		A	1.3
7	☐	1.000		2161757.54		A	2.3
8	☐	1.000		2125457.49		A	2.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2202962.07		A	1.1
2	☐	1.000		2260283.87		A	1.1
3	☐	1.000		2277317.69		A	1.7
4	☐	1.000		2286955.73		A	0.6
5	☐	1.000		2337358.14		A	0.9
6	☐	1.000		2401977.40		A	1.7
7	☐	1.000		2489861.18		A	1.5
8	☐	1.000		2357090.87		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1353535.69		P	0.4
2	☐	1.000		1364940.26		P	0.9
3	☐	1.000		1357756.47		P	0.7
4	☐	1.000		1350304.38		P	1.3
5	☐	1.000		1401213.64		P	1.1
6	☐	1.000		1393495.40		P	2.0
7	☐	1.000		1382314.37		P	0.8
8	☐	1.000		1305602.45		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012122MS1.b
Acq. Date-Time 2022-01-21 12:49:18
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		4505	45050.10			1.027	5.000
24		42686	426855.81			0.791	5.000
25		5664	56638.03			0.726	5.000
26		6374	63743.32			0.983	5.000
59		10007	100072.11			0.858	5.000
113		3956	39564.10			0.996	5.000
115		13842	138416.36			1.457	5.000
206		5156	51563.24			1.122	5.000
207		4279	42787.27			1.158	5.000
208		10561	105605.52			0.933	5.000
220		1	13.50			22.222	

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

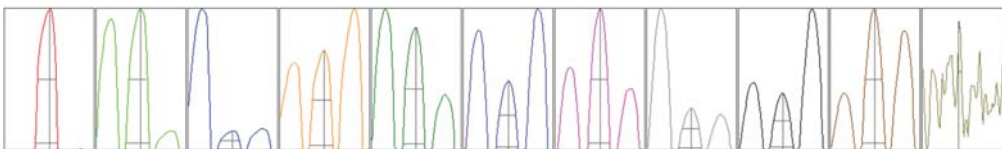
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4506	4453	4569	4527	4470
24	42395	42764	43236	42568	42464
25	5652	5707	5706	5637	5616
26	6373	6350	6479	6358	6312
59	9956	10066	10129	9941	9944
113	3977	3978	3999	3914	3915
115	13910	14136	13849	13621	13692
206	5154	5210	5210	5070	5138
207	4252	4350	4289	4216	4286
208	10548	10684	10629	10434	10508

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7768.17	9.05	8.90 - 9.10	
24	72366.73	24.00	23.90 - 24.10	
25	9632.61	25.00	24.90 - 25.10	
26	10901.33	26.00	25.90 - 26.10	
59	18008.40	59.00	58.90 - 59.10	
113	7631.02	113.05	112.90 - 113.10	
115	26596.48	115.05	114.90 - 115.10	
206	9544.21	206.00	205.90 - 206.10	
207	8109.14	207.00	206.90 - 207.10	
208	19901.33	208.00	207.90 - 208.10	
220	2.15	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.741	0.900	
24	0.62	0.786	0.900	
25	0.63	0.786	0.900	
26	0.63	0.785	0.900	
59	0.59	0.737	0.900	
113	0.54	0.730	0.900	
115	0.54	0.729	0.900	
206	0.57	0.780	0.900	
207	0.55	0.785	0.900	
208	0.56	0.779	0.900	
220	0.13			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.73 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	11.5 V	Deflect	15.2 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
---------	--------	---------	---------

EM

Discriminator	4.1 mV	Analog HV	2291 V	Pulse HV	1613 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2550	25495.11			1.467	
89		9718	97176.03			1.776	
205		10542	105417.07			2.266	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2590	2584	2548	2522	2504
89	9956	9839	9609	9639	9546
205	10900	10673	10364	10350	10422

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 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	11.5 V	Deflect	4.8 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
---------	--------	---------	---------

EM

Discriminator	4.1 mV	Analog HV	2291 V	Pulse HV	1613 V
---------------	--------	-----------	--------	----------	--------