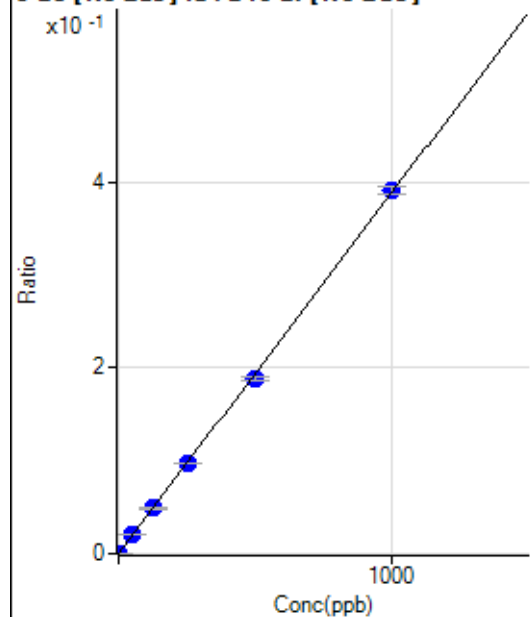


Calibration for 003CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102020MS.b\
 Analysis File: P8102020MS.batch.bin
 DA Date-Time: 2020-10-21 01:09:46
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-10-20 11:32:23
2	004CALS.d	S02	2020-10-20 11:35:33
3	005CALS.d	S03	2020-10-20 11:38:41
4	006CALS.d	S04	2020-10-20 11:41:51
5	007CALS.d	S05	2020-10-20 11:44:53
6	008CALS.d	S06	2020-10-20 11:47:53
7	009CALS.d	S07	2020-10-20 11:50:52
8	010CALS.d	S08	2020-10-20 11:53:52

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	49.99	0.0000	P	20.4
2	☐	1.000	0.951	693.22	0.0004	P	6.4
3	☐	50.000	50.956	34776.52	0.0198	P	0.9
4	☐	125.000	125.537	87275.56	0.0487	P	0.5
5	☐	250.000	251.762	174792.95	0.0976	P	1.1
6	☐	500.000	487.000	342369.68	0.1888	P	2.0
7	☐	1000.000	1005.945	693944.32	0.3900	P	2.2
8	☐			323.27	0.0002	P	4.2

$$y = 3.8769\text{E-}004 * x + 2.9039\text{E-}005$$

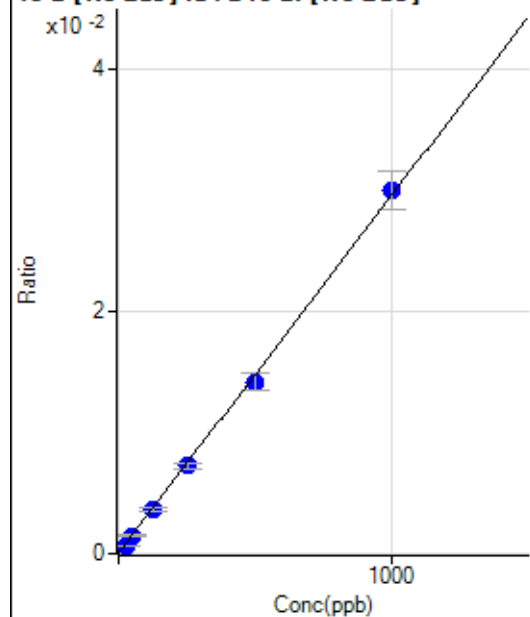
$$R = 0.9999$$

$$DL = 0.04591$$

$$BEC = 0.0749$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	95.32	0.0001	P	16.2
2	☐	25.000	21.080	1178.49	0.0007	P	9.0
3	☐	50.000	48.883	2627.73	0.0015	P	11.9
4	☐	125.000	122.754	6579.52	0.0037	P	8.6
5	☐	250.000	243.672	12956.50	0.0072	P	7.7
6	☐	500.000	477.632	25596.53	0.0141	P	10.0
7	☐	1000.000	1013.201	53145.81	0.0299	P	10.5
8	☐			8021.96	0.0045	P	7.9

$$y = 2.9454\text{E-}005 * x + 5.5435\text{E-}005$$

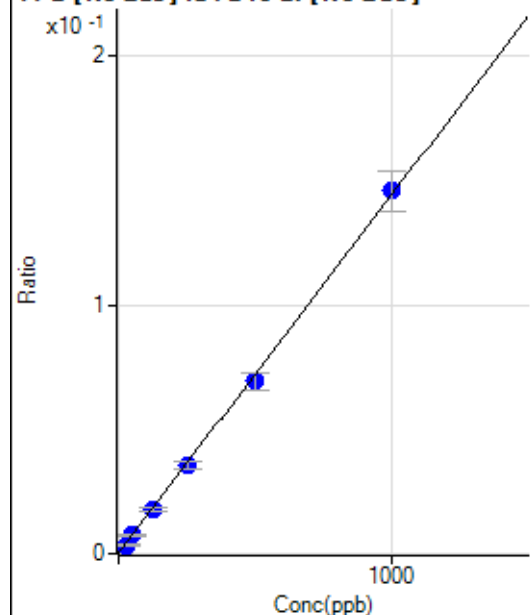
$$R = 0.9996$$

$$DL = 0.9167$$

$$BEC = 1.882$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.92	0.0003	P	5.6
2	☐	25.000	21.375	5834.70	0.0033	P	11.5
3	☐	50.000	49.661	13045.92	0.0074	P	11.2
4	☐	125.000	121.298	31796.68	0.0177	P	7.6
5	☐	250.000	244.982	63689.80	0.0356	P	7.1
6	☐	500.000	480.618	125952.21	0.0695	P	9.9
7	☐	1000.000	1011.516	259446.28	0.1460	P	11.0
8	☐			38475.41	0.0215	P	8.2

$$y = 1.4404\text{E-}004 * x + 2.6960\text{E-}004$$

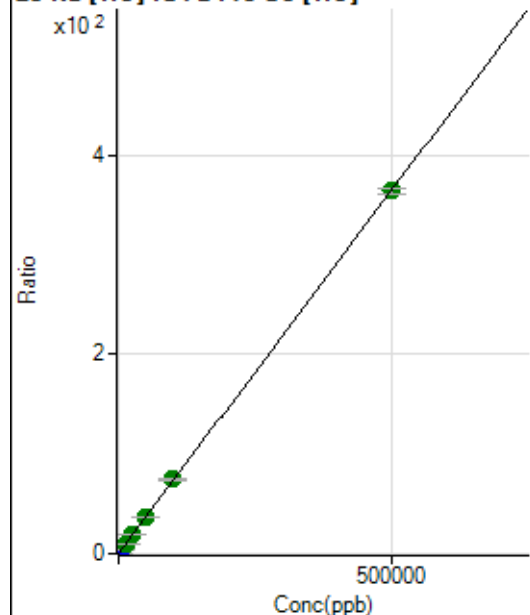
$$R = 0.9997$$

$$DL = 0.3166$$

$$BEC = 1.872$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25851.00	0.2040	P	0.6
2	☐	500.000	472.007	70785.81	0.5482	P	1.5
3	☐	5000.000	5078.109	513362.09	3.9071	P	0.5
4	☐	12500.000	12976.882	1249749.21	9.6673	A	2.4
5	☐	25000.000	25478.013	2437854.46	18.7837	A	0.4
6	☐	50000.000	50665.654	4725424.80	37.1516	A	1.8
7	☐	100000.00	102702.84	9493995.44	75.0995	A	2.8
8	☐	500000.00	499356.29	46988418.76	364.3570	A	1.7

$$y = 7.2924\text{E-}004 * x + 0.2040$$

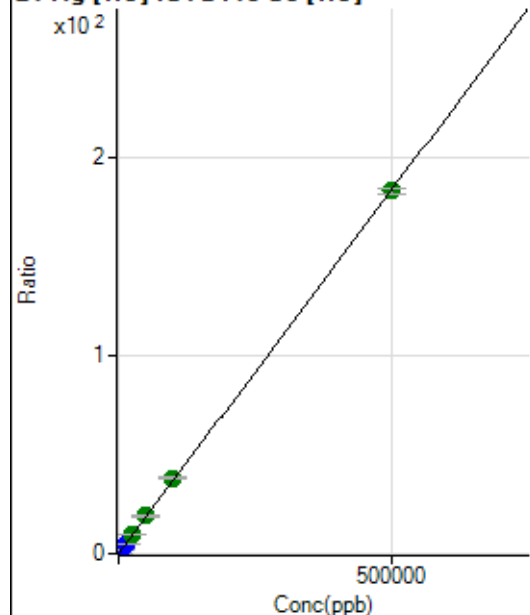
$$R = 1.0000$$

$$DL = 5.034$$

$$BEC = 279.7$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	361.13	0.0028	P	19.5
2	☐	500.000	481.005	23160.53	0.1794	P	2.0
3	☐	5000.000	5301.440	255978.02	1.9484	P	1.5
4	☐	12500.000	13393.912	635801.06	4.9181	P	2.1
5	☐	25000.000	26362.646	1255976.29	9.6774	A	1.8
6	☐	50000.000	51844.535	2420340.55	19.0287	A	2.1
7	☐	100000.00	103620.85	4807625.06	38.0294	A	2.8
8	☐	500000.00	498997.90	23617547.06	183.1242	A	1.2

$$y = 3.6698\text{E-}004 * x + 0.0028$$

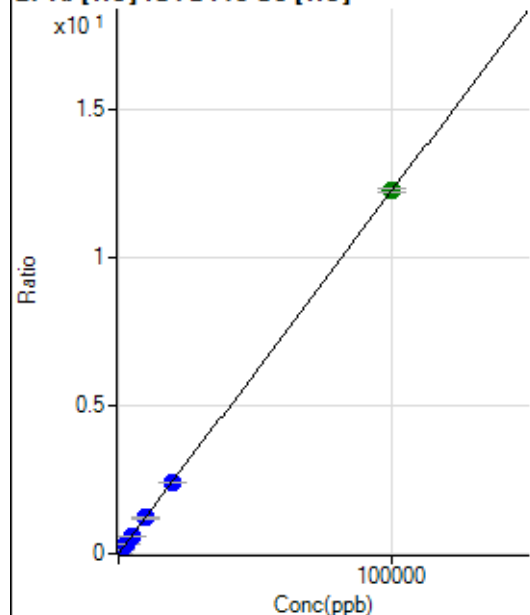
$$R = 1.0000$$

$$DL = 4.53$$

$$BEC = 7.762$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	307.47	0.0024	P	2.7
2	☐	20.000	17.980	597.86	0.0046	P	4.8
3	☐	1000.000	968.132	15919.61	0.1212	P	1.6
4	☐	2500.000	2469.614	39473.63	0.3053	P	2.1
5	☐	5000.000	4908.313	78448.93	0.6045	P	0.1
6	☐	10000.000	9806.199	153293.15	1.2052	P	0.9
7	☐	20000.000	19735.252	306363.34	2.4230	P	0.7
8	☐	100000.00	100077.99	1583475.39	12.2775	A	1.1

$$y = 1.2265\text{E-}004 * x + 0.0024$$

$$R = 1.0000$$

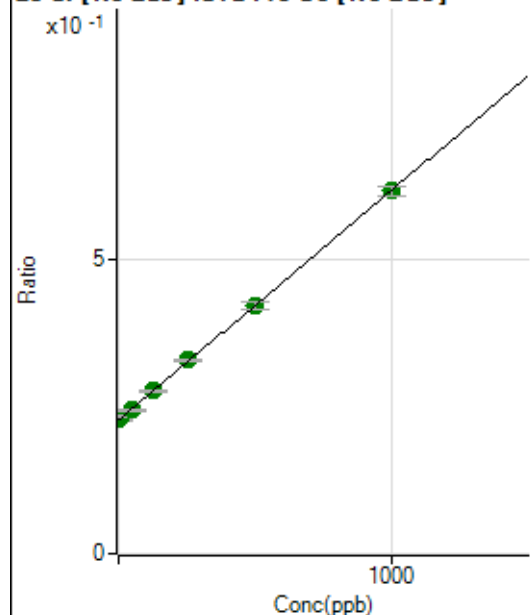
$$DL = 1.601$$

$$BEC = 19.78$$

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	940287.96	0.2277	A	1.3
2	☐	10.000	13.845	952159.84	0.2332	A	1.7
3	☐	50.000	42.060	1026329.37	0.2442	A	0.3
4	☐	125.000	126.551	1181639.29	0.2772	A	0.7
5	☐	250.000	262.868	1407170.55	0.3305	A	1.1
6	☐	500.000	499.401	1811401.17	0.4230	A	3.5
7	☐	1000.000	997.247	2595877.66	0.6177	A	2.4
8	☐			1134819.66	0.2700	A	3.4

$$y = 3.9099\text{E-}004 * x + 0.2277$$

R = 0.9998

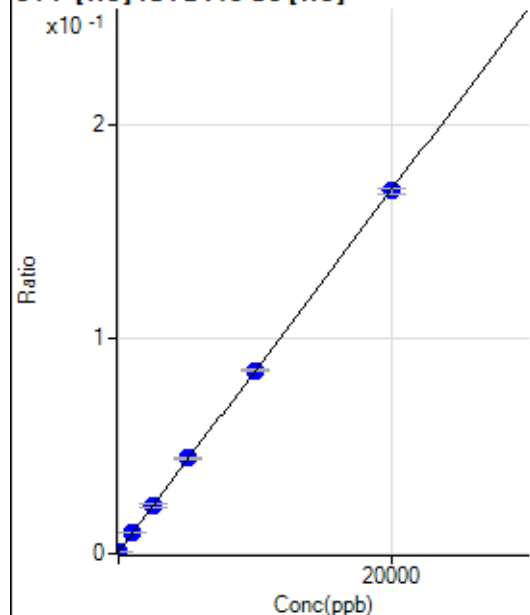
DL = 22.85

BEC = 582.5

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-5.402	113.89	0.0009	P	25.6
2	☐	0.000	5.402	127.78	0.0010	P	10.0
3	☐	1000.000	1044.000	1280.65	0.0097	P	6.0
4	☐	2500.000	2514.558	2861.47	0.0222	P	7.8
5	☐	5000.000	5165.517	5776.31	0.0445	P	3.2
6	☐	10000.000	10014.774	10862.75	0.0854	P	1.1
7	☐	20000.000	19947.214	21388.41	0.1692	P	1.4
8	☐			111.11	0.0009	P	9.9

$$y = 8.4334\text{E-}006 * x + 9.4395\text{E-}004$$

R = 1.0000

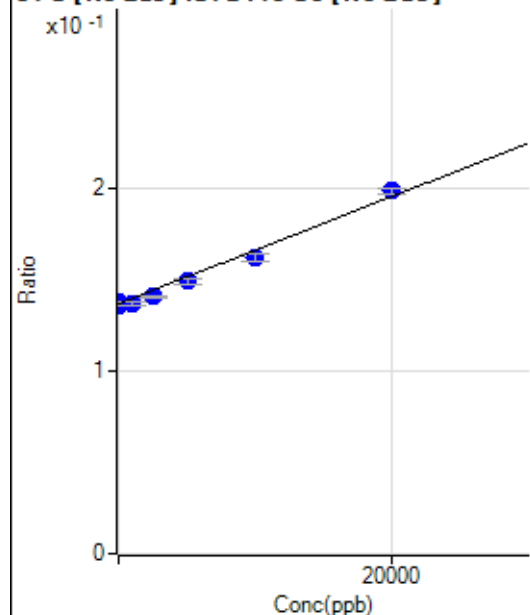
DL = 58.5

BEC = 111.9

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-305.650	560623.19	0.1358	P	1.2
2	☐	0.000	305.650	561858.04	0.1376	P	0.6
3	☐	1000.000	-86.415	573404.08	0.1364	P	1.2
4	☐	2500.000	1327.316	599134.11	0.1406	P	1.0
5	☐	5000.000	4186.634	633978.96	0.1489	P	2.0
6	☐	10000.000	8719.426	694711.06	0.1622	P	2.7
7	☐	20000.000	21044.535	833391.40	0.1983	P	1.7
8	☐			544641.51	0.1296	P	2.2

$$y = 2.9273\text{E-}006 * x + 0.1367$$

$$R = 0.9951$$

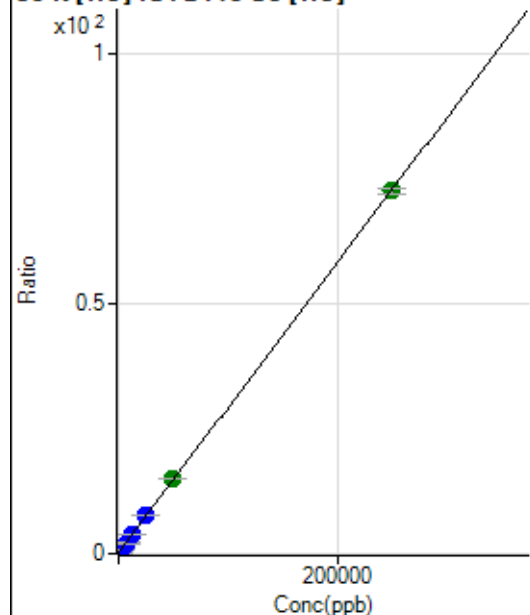
$$DL = 1282$$

$$BEC = 4.669\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24070.53	0.1899	P	1.4
2	☐	500.000	458.211	41691.37	0.3228	P	0.5
3	☐	2500.000	2547.102	122030.34	0.9289	P	2.1
4	☐	6250.000	6577.656	271241.15	2.0982	P	2.0
5	☐	12500.000	12929.350	511465.64	3.9409	P	0.6
6	☐	25000.000	25989.799	983170.52	7.7299	P	1.2
7	☐	50000.000	50685.217	1883237.98	14.8943	A	0.3
8	☐	250000.00	249733.93	9368092.74	72.6407	A	1.6

$$y = 2.9011\text{E-}004 * x + 0.1899$$

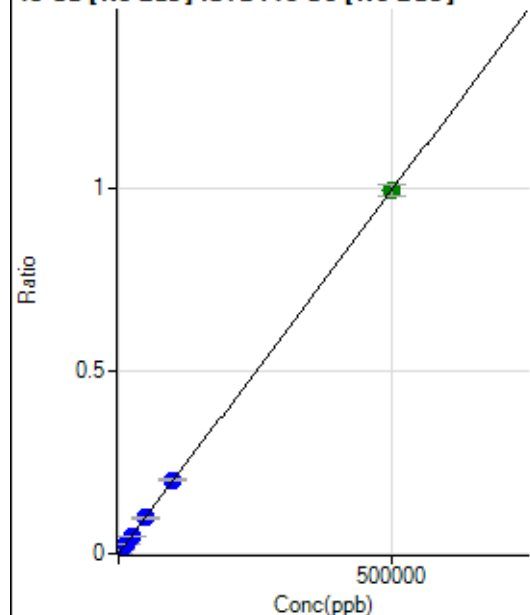
$$R = 1.0000$$

$$DL = 27.73$$

$$BEC = 654.6$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	369.96	0.0001	P	6.7
2	☐	500.000	461.223	4099.66	0.0010	P	1.3
3	☐	5000.000	5006.276	42085.82	0.0100	P	0.2
4	☐	12500.000	12497.972	105976.72	0.0249	P	0.8
5	☐	25000.000	24944.441	210881.79	0.0495	P	1.0
6	☐	50000.000	49151.513	417616.25	0.0975	P	3.2
7	☐	100000.00	101407.70	845225.74	0.2011	P	1.8
8	☐	500000.00	499806.11	4164905.85	0.9908	A	3.1

$$y = 1.9823E-006 * x + 8.9552E-005$$

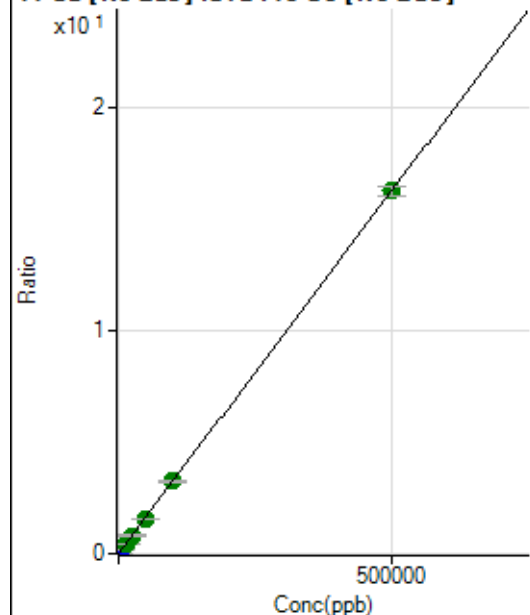
$$R = 1.0000$$

$$DL = 9.142$$

$$BEC = 45.18$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30328.89	0.0073	P	0.5
2	☐	500.000	467.715	92129.14	0.0226	P	0.7
3	☐	5000.000	5026.880	718113.47	0.1709	P	0.4
4	☐	12500.000	12622.468	1781174.71	0.4179	A	2.3
5	☐	25000.000	24892.534	3478590.49	0.8171	A	1.3
6	☐	50000.000	48235.749	6751438.11	1.5764	A	2.3
7	☐	100000.00	99631.077	13651024.89	3.2482	A	2.4
8	☐	500000.00	500252.28	68434844.09	16.2797	A	2.5

$$y = 3.2528E-005 * x + 0.0073$$

$$R = 1.0000$$

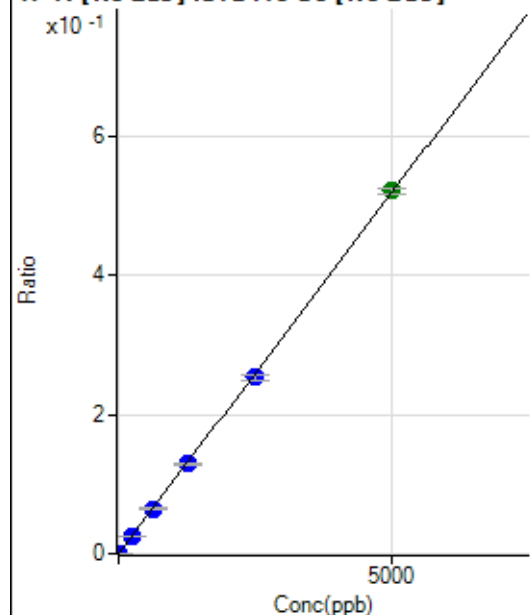
$$DL = 3.316$$

$$BEC = 225.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	397.24	0.0001	P	25.5
2	☐	5.000	4.666	2366.93	0.0006	P	3.7
3	☐	250.000	247.742	108219.17	0.0257	P	0.9
4	☐	625.000	625.482	276464.05	0.0649	P	0.5
5	☐	1250.000	1246.828	549992.41	0.1292	P	1.5
6	☐	2500.000	2443.030	1083662.19	0.2531	P	3.4
7	☐	5000.000	5029.331	2189229.34	0.5209	A	1.4
8	☐			655.59	0.0002	P	14.2

$$y = 1.0355\text{E-}004 * x + 9.6391\text{E-}005$$

$$R = 0.9999$$

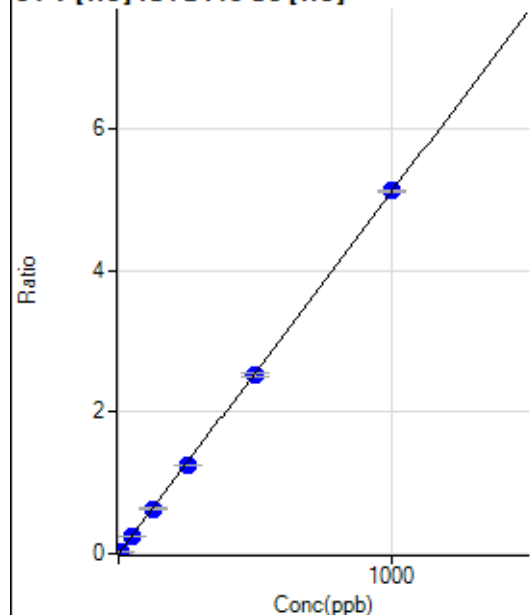
$$DL = 0.7126$$

$$BEC = 0.9309$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0001	P	43.0
2	☐	5.000	4.617	3061.46	0.0237	P	0.3
3	☐	50.000	48.607	32657.24	0.2486	P	2.0
4	☐	125.000	124.927	82575.30	0.6387	P	1.4
5	☐	250.000	245.416	162827.79	1.2546	P	0.3
6	☐	500.000	495.890	322411.68	2.5349	P	1.8
7	☐	1000.000	1003.282	648448.92	5.1286	P	0.7
8	☐			137.78	0.0011	P	18.4

$$y = 0.0051 * x + 1.0513\text{E-}004$$

$$R = 1.0000$$

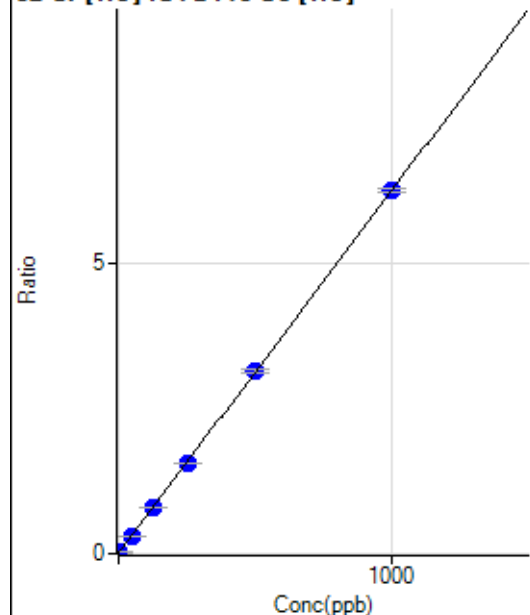
$$DL = 0.02655$$

$$BEC = 0.02057$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	954.49	0.0075	P	2.8
2	☐	2.000	1.811	2426.90	0.0188	P	1.3
3	☐	50.000	48.922	40976.37	0.3119	P	0.6
4	☐	125.000	125.791	102132.28	0.7901	P	2.1
5	☐	250.000	247.777	201023.64	1.5489	P	0.8
6	☐	500.000	501.264	397559.38	3.1258	P	1.9
7	☐	1000.000	999.879	787375.05	6.2276	P	1.2
8	☐			3486.01	0.0270	P	4.5

$$y = 0.0062 * x + 0.0075$$

$$R = 1.0000$$

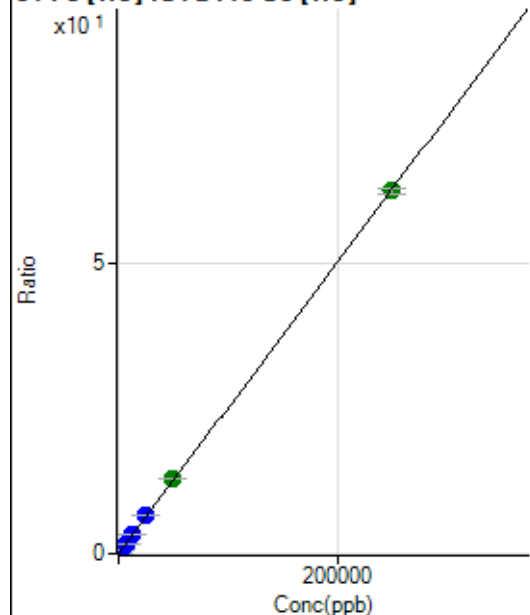
$$DL = 0.1033$$

$$BEC = 1.211$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	287.05	0.0023	P	11.6
2	☐	50.000	48.896	1877.94	0.0145	P	3.8
3	☐	2500.000	2542.870	84157.51	0.6405	P	1.1
4	☐	6250.000	6460.618	209916.06	1.6239	P	2.5
5	☐	12500.000	12984.014	423269.31	3.2613	P	1.0
6	☐	25000.000	25973.772	829519.45	6.5218	P	1.3
7	☐	50000.000	52051.980	1652270.03	13.0676	A	0.5
8	☐	250000.00	249462.33	8076215.87	62.6189	A	1.3

$$y = 2.5101E-004 * x + 0.0023$$

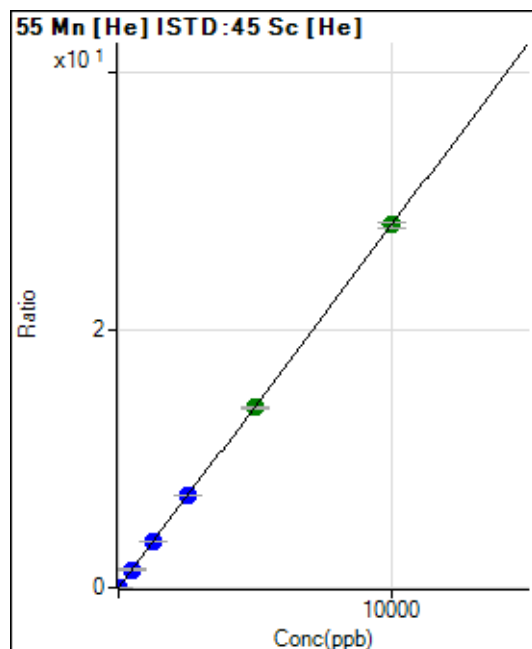
$$R = 1.0000$$

$$DL = 3.134$$

$$BEC = 9.021$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	73.33	0.0006	P	25.6
2	☐	1.000	0.963	424.46	0.0033	P	5.4
3	☐	500.000	500.754	185020.82	1.4083	P	1.7
4	☐	1250.000	1278.653	464813.86	3.5951	P	1.1
5	☐	2500.000	2529.686	923023.08	7.1119	P	0.5
6	☐	5000.000	4975.611	1779137.66	13.9878	A	0.9
7	☐	10000.000	10001.154	3554580.50	28.1153	A	1.6
8	☐			2764.74	0.0214	P	1.6

$$y = 0.0028 * x + 5.7883E-004$$

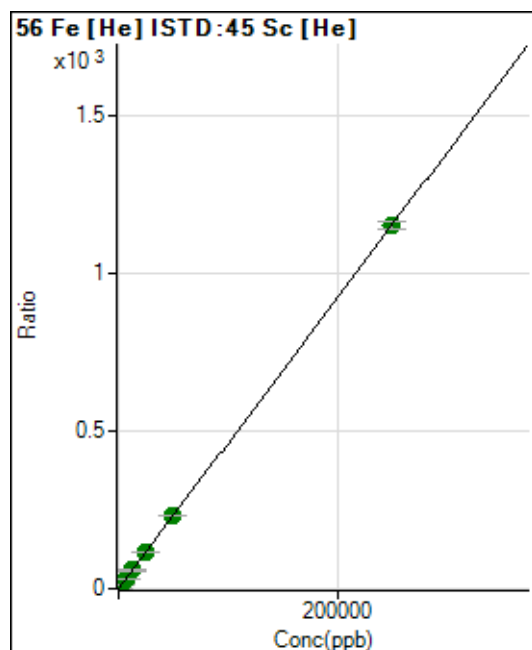
$$R = 1.0000$$

$$DL = 0.1579$$

$$BEC = 0.2059$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2270.59	0.0179	P	6.1
2	☐	50.000	48.385	31124.82	0.2411	P	2.2
3	☐	2500.000	2552.191	1548837.19	11.7882	A	1.5
4	☐	6250.000	6359.831	3793698.81	29.3484	A	2.6
5	☐	12500.000	12582.252	7533413.48	58.0452	A	1.1
6	☐	25000.000	25075.436	14711237.25	115.6616	A	1.1
7	☐	50000.000	50534.590	29469655.05	233.0750	A	0.6
8	☐	250000.00	249878.15	148613638.5	1,152.414	A	2.0

$$y = 0.0046 * x + 0.0179$$

$$R = 1.0000$$

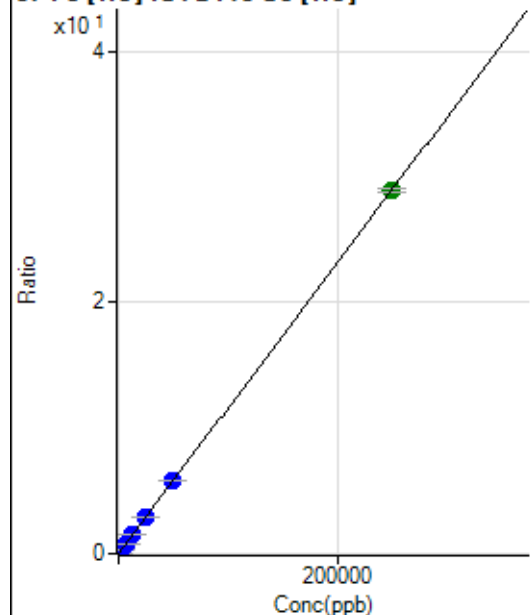
$$DL = 0.7153$$

$$BEC = 3.884$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	109.26	0.0009	P	21.3
2	☐	50.000	53.783	914.86	0.0071	P	5.3
3	☐	2500.000	2531.003	38578.35	0.2936	P	2.1
4	☐	6250.000	6325.289	94689.81	0.7326	P	3.1
5	☐	12500.000	12633.460	189783.12	1.4623	P	0.9
6	☐	25000.000	25342.340	372985.54	2.9325	P	1.0
7	☐	50000.000	50730.545	742097.56	5.8693	P	0.9
8	☐	250000.00	249810.79	3727385.62	28.8988	A	1.1

$$y = 1.1568E-004 * x + 8.6228E-004$$

$$R = 1.0000$$

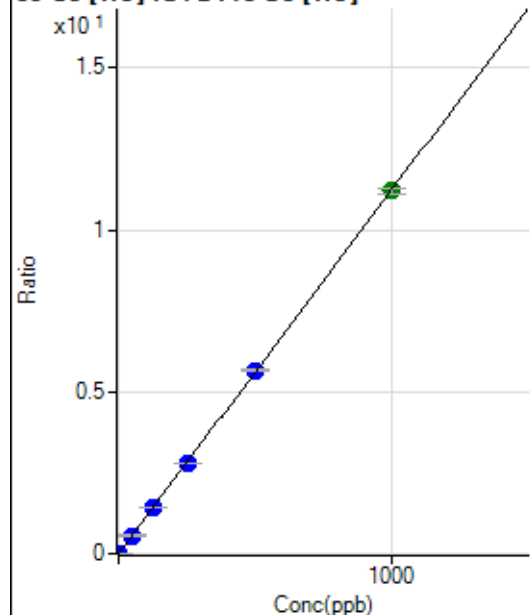
$$DL = 4.771$$

$$BEC = 7.454$$

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	40.00	0.0003	P	36.3
2	☐	1.000	0.953	1421.20	0.0110	P	2.6
3	☐	50.000	49.986	73742.98	0.5613	P	1.8
4	☐	125.000	126.724	183896.13	1.4225	P	1.9
5	☐	250.000	250.650	365122.26	2.8133	P	0.5
6	☐	500.000	503.355	718560.10	5.6493	P	1.1
7	☐	1000.000	997.945	1416014.30	11.2000	A	1.8
8	☐			2580.26	0.0200	P	4.7

$$y = 0.0112 * x + 3.1555E-004$$

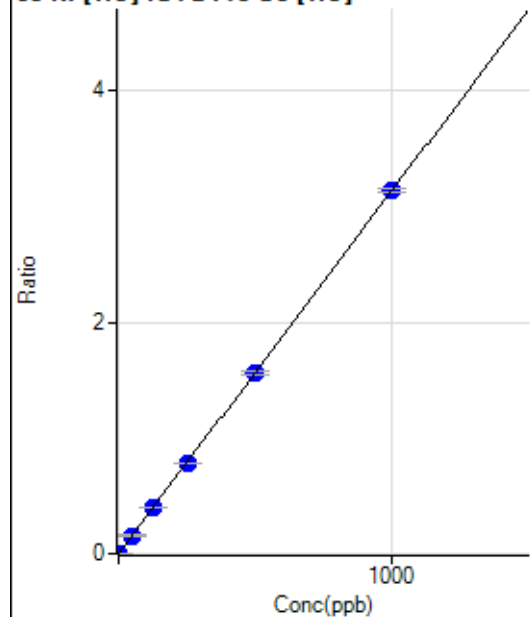
$$R = 1.0000$$

$$DL = 0.0306$$

$$BEC = 0.02812$$

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	156.67	0.0012	P	9.6
2	☐	1.000	0.893	521.13	0.0040	P	6.1
3	☐	50.000	49.612	20582.79	0.1567	P	1.9
4	☐	125.000	126.453	51374.54	0.3974	P	2.0
5	☐	250.000	248.456	101187.57	0.7796	P	1.2
6	☐	500.000	498.330	198735.05	1.5625	P	1.2
7	☐	1000.000	1001.059	396694.76	3.1375	P	0.9
8	☐			1203.40	0.0093	P	2.3

$$y = 0.0031 * x + 0.0012$$

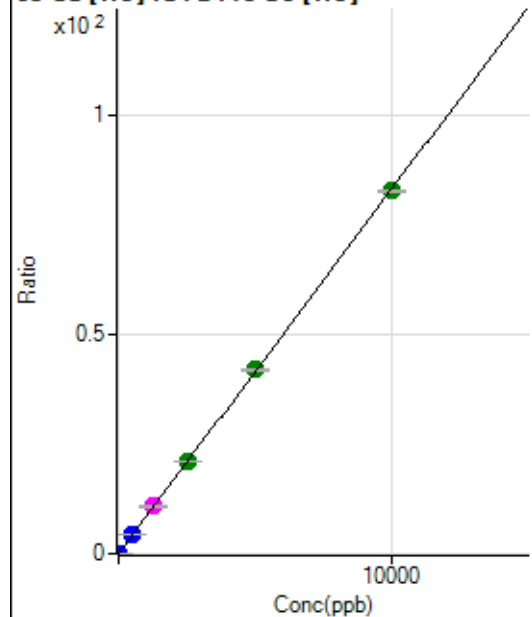
$$R = 1.0000$$

$$DL = 0.1138$$

$$BEC = 0.3945$$

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	598.91	0.0047	P	11.5
2	☐	2.000	2.283	3061.48	0.0237	P	4.2
3	☐	500.000	512.160	560261.05	4.2644	P	1.7
4	☐	1250.000	1295.453	1393344.18	10.7792	M	2.6
5	☐	2500.000	2540.697	2743168.64	21.1361	A	1.1
6	☐	5000.000	5052.143	5345174.57	42.0242	A	1.0
7	☐	10000.000	9957.464	10472392.97	82.8226	A	0.6
8	☐			4504.09	0.0349	P	6.4

$$y = 0.0083 * x + 0.0047$$

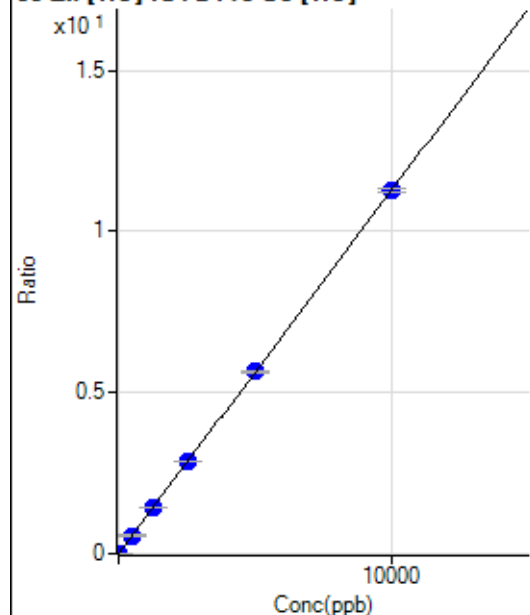
$$R = 1.0000$$

$$DL = 0.1962$$

$$BEC = 0.5681$$

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	133.34	0.0011	P	9.1
2	☐	2.000	1.655	376.68	0.0029	P	4.8
3	☐	500.000	501.085	74331.31	0.5658	P	1.7
4	☐	1250.000	1282.865	187056.59	1.4468	P	1.5
5	☐	2500.000	2523.319	369221.18	2.8448	P	0.4
6	☐	5000.000	5007.777	717989.80	5.6448	P	0.8
7	☐	10000.000	9986.119	1423093.95	11.2555	P	1.0
8	☐			3848.34	0.0298	P	1.1

$$y = 0.0011 * x + 0.0011$$

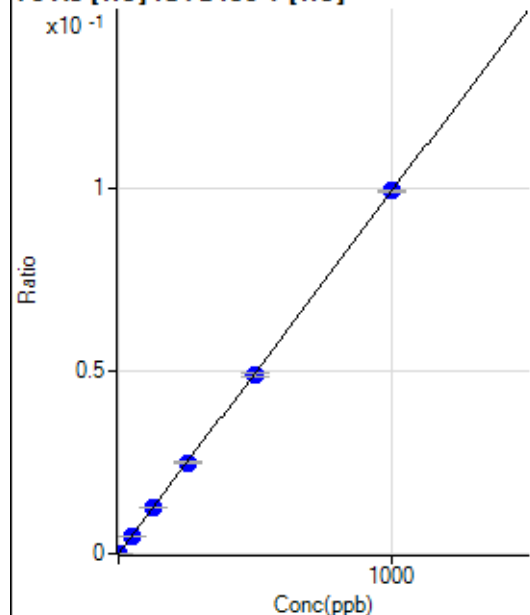
$$R = 1.0000$$

$$DL = 0.2548$$

$$BEC = 0.9335$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.00	0.0000	P	49.8
2	☐	1.000	0.960	109.01	0.0001	P	15.0
3	☐	50.000	49.815	5432.27	0.0050	P	1.7
4	☐	125.000	127.420	13702.00	0.0127	P	2.4
5	☐	250.000	250.805	26974.67	0.0249	P	1.3
6	☐	500.000	495.806	53273.43	0.0493	P	2.2
7	☐	1000.000	1001.603	106881.70	0.0995	P	0.6
8	☐			49.34	0.0000	P	26.7

$$y = 9.9365E-005 * x + 5.6376E-006$$

$$R = 1.0000$$

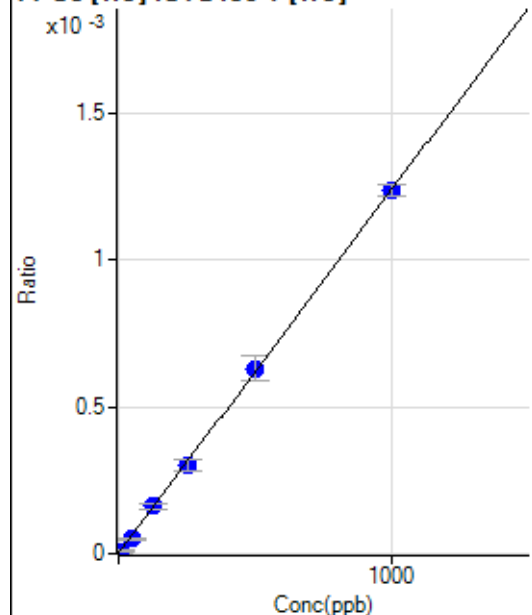
$$DL = 0.08482$$

$$BEC = 0.05674$$

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	☐	5.000	6.676	10.00	0.0000	P	115.
3	☐	50.000	40.194	55.56	0.0001	P	10.6
4	☐	125.000	129.676	174.45	0.0002	P	9.6
5	☐	250.000	242.810	325.56	0.0003	P	11.3
6	☐	500.000	509.280	681.13	0.0006	P	13.9
7	☐	1000.000	997.055	1324.52	0.0012	P	3.0
8	☐			4.45	0.0000	P	86.6

$$y = 1.2360\text{E-}006 * x + 1.0461\text{E-}006$$

$$R = 0.9998$$

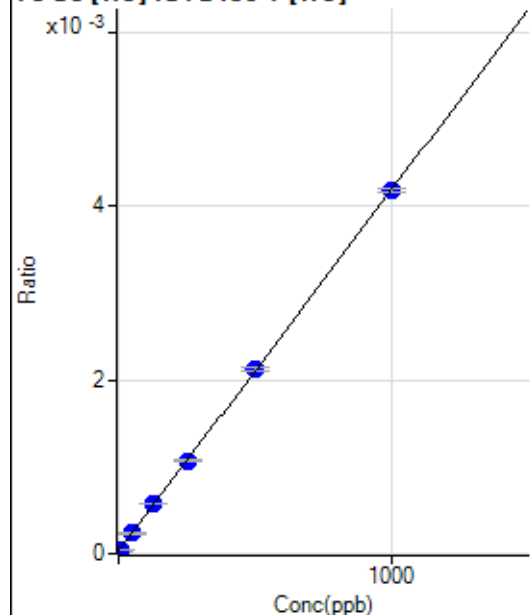
$$DL = 4.398$$

$$BEC = 0.8464$$

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	29.33	0.0000	P	13.6
2	☐	5.000	3.484	45.34	0.0000	P	14.6
3	☐	50.000	50.856	262.03	0.0002	P	6.2
4	☐	125.000	132.473	625.41	0.0006	P	1.2
5	☐	250.000	249.388	1151.50	0.0011	P	1.6
6	☐	500.000	503.861	2293.42	0.0021	P	2.0
7	☐	1000.000	997.253	4479.17	0.0042	P	1.2
8	☐			32.00	0.0000	P	10.9

$$y = 4.1549\text{E-}006 * x + 2.7569\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.715$$

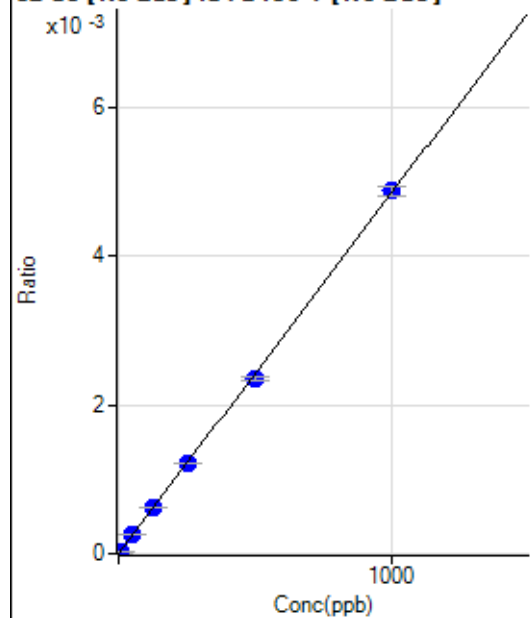
$$BEC = 6.635$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2793.16		P	1.4
2	☐			2913.31		P	5.5
3	☐			2843.23		P	5.3
4	☐			2776.47		P	6.6
5	☐			2789.83		P	12.1
6	☐			2926.67		P	9.3
7	☐			3050.16		P	5.8
8	☐			3050.15		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.49	0.0000	P	985.
2	☐	5.000	4.538	229.23	0.0000	P	19.3
3	☐	50.000	51.357	2576.00	0.0002	P	1.8
4	☐	125.000	126.474	6471.92	0.0006	P	1.7
5	☐	250.000	251.281	12664.36	0.0012	P	1.3
6	☐	500.000	487.124	25041.74	0.0024	P	2.4
7	☐	1000.000	1005.868	50551.95	0.0049	P	2.4
8	☐			23.86	0.0000	P	239.

$$y = 4.8422\text{E-}006 * x + 3.2321\text{E-}007$$

$$R = 0.9999$$

$$DL = 1.973$$

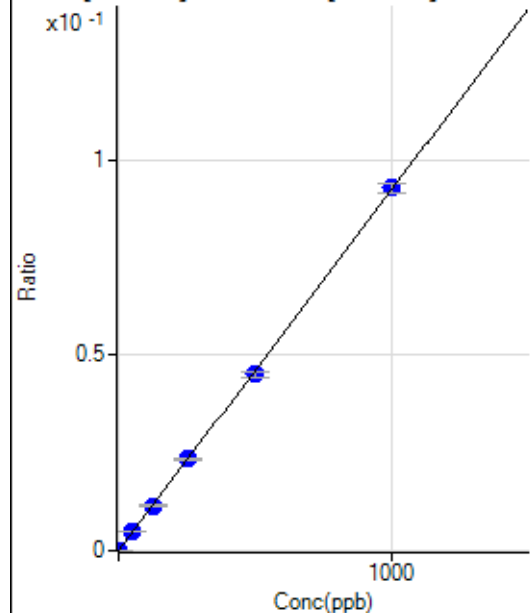
$$BEC = 0.06675$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			438.90		P	4.9
2	☐			455.57		P	6.6
3	☐			414.46		P	8.6
4	☐			376.68		P	3.5
5	☐			435.57		P	5.2
6	☐			435.57		P	14.2
7	☐			420.01		P	5.6
8	☐			422.24		P	13.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	658.37	0.0001	P	12.4
2	☐	1.000	0.743	1363.99	0.0001	P	3.3
3	☐	50.000	51.156	49468.76	0.0048	P	2.0
4	☐	125.000	124.031	121497.47	0.0115	P	2.3
5	☐	250.000	254.204	244614.37	0.0235	P	1.9
6	☐	500.000	487.914	478359.72	0.0451	P	2.6
7	☐	1000.000	1005.056	962707.72	0.0928	P	2.5
8	☐			6084.82	0.0006	P	5.9

$$y = 9.2230E-005 * x + 6.4121E-005$$

$$R = 0.9999$$

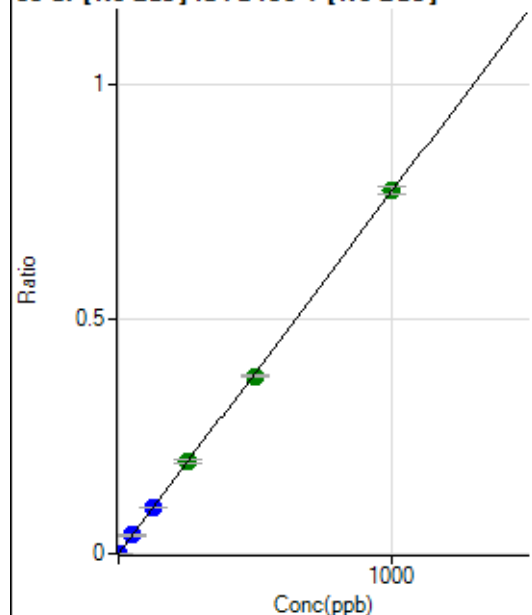
$$DL = 0.2594$$

$$BEC = 0.6952$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	100.00	0.0000	P	43.3
2	☐	1.000	0.955	7682.91	0.0007	P	2.0
3	☐	50.000	51.053	407739.70	0.0394	P	2.3
4	☐	125.000	126.394	1030853.91	0.0976	P	0.9
5	☐	250.000	255.059	2048906.95	0.1969	A	2.4
6	☐	500.000	491.377	4027580.99	0.3794	A	1.5
7	☐	1000.000	1002.820	8035615.98	0.7742	A	2.3
8	☐			47149.53	0.0045	P	2.4

$$y = 7.7205\text{E-}004 * x + 9.7470\text{E-}006$$

$$R = 0.9999$$

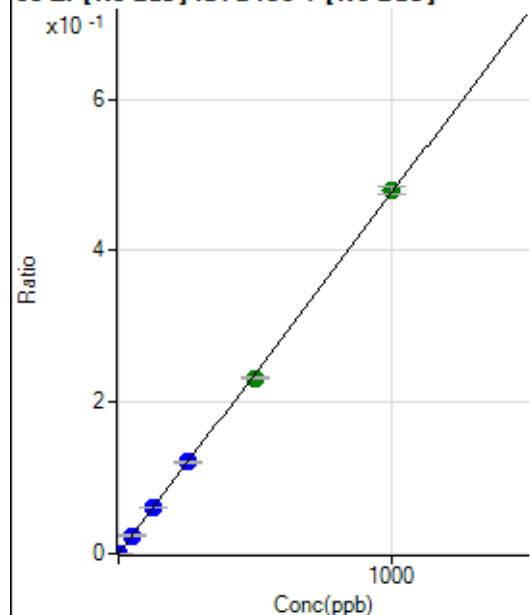
$$DL = 0.0164$$

$$BEC = 0.01262$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	400.02	0.0000	P	16.4
2	☐	1.000	0.887	4745.38	0.0005	P	4.6
3	☐	50.000	50.123	247241.15	0.0239	P	1.9
4	☐	125.000	126.103	634637.36	0.0601	P	0.6
5	☐	250.000	254.400	1260899.42	0.1212	P	1.3
6	☐	500.000	486.453	2459290.70	0.2317	A	1.5
7	☐	1000.000	1005.530	4969381.71	0.4788	A	2.0
8	☐			1761.27	0.0002	P	12.3

$$y = 4.7614\text{E-}004 * x + 3.8995\text{E-}005$$

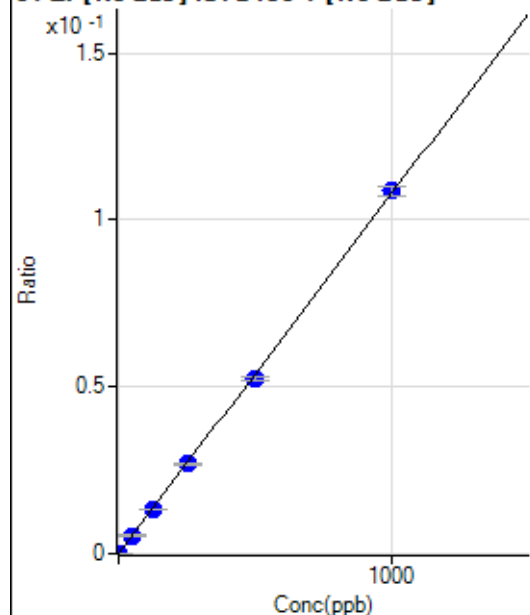
$$R = 0.9999$$

$$DL = 0.04023$$

$$BEC = 0.0819$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0000	P	33.4
2	☐	1.000	0.974	1152.87	0.0001	P	5.7
3	☐	50.000	50.666	56576.64	0.0055	P	2.1
4	☐	125.000	123.126	140309.71	0.0133	P	1.5
5	☐	250.000	249.254	279749.33	0.0269	P	1.5
6	☐	500.000	484.233	554354.62	0.0522	P	2.1
7	☐	1000.000	1008.271	1128451.10	0.1087	P	2.4
8	☐			377.79	0.0000	P	18.4

$$y = 1.0783\text{E-}004 * x + 7.0400\text{E-}006$$

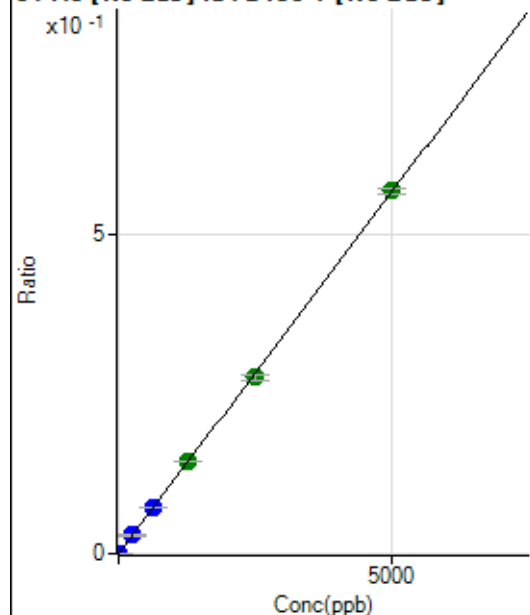
$$R = 0.9998$$

$$DL = 0.06532$$

$$BEC = 0.06529$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	194.45	0.0000	P	26.3
2	☐	5.000	4.505	5442.87	0.0005	P	3.6
3	☐	250.000	255.946	300001.24	0.0290	P	3.0
4	☐	625.000	630.278	754318.79	0.0714	P	1.0
5	☐	1250.000	1278.191	1506856.86	0.1448	A	1.0
6	☐	2500.000	2445.870	2941093.49	0.2771	A	3.2
7	☐	5000.000	5019.061	5900835.85	0.5686	A	1.9
8	☐			2089.10	0.0002	P	8.7

$$y = 1.1327\text{E-}004 * x + 1.8967\text{E-}005$$

$$R = 0.9999$$

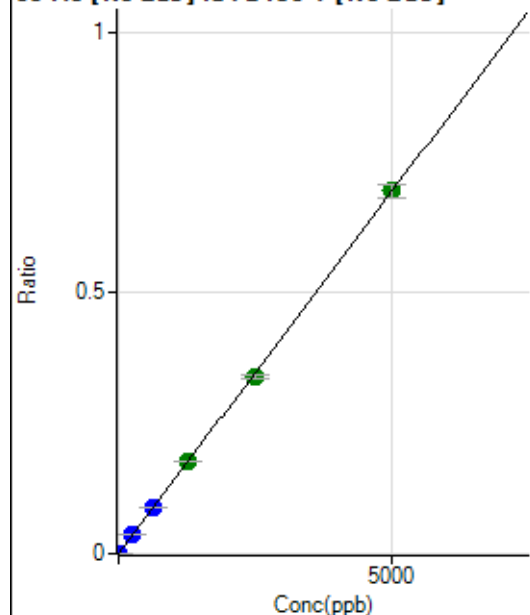
$$DL = 0.1322$$

$$BEC = 0.1674$$

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	36.11	0.0000	P	48.4
2	☐	5.000	4.555	6526.69	0.0006	P	8.3
3	☐	250.000	258.179	370112.25	0.0358	P	3.4
4	☐	625.000	635.393	930397.17	0.0881	P	1.4
5	☐	1250.000	1278.122	1843810.57	0.1772	A	0.6
6	☐	2500.000	2450.800	3606669.65	0.3397	A	2.8
7	☐	5000.000	5015.862	7215718.39	0.6953	A	3.4
8	☐			2450.29	0.0002	P	4.7

$$y = 1.3863\text{E-}004 * x + 3.5225\text{E-}006$$

$$R = 0.9999$$

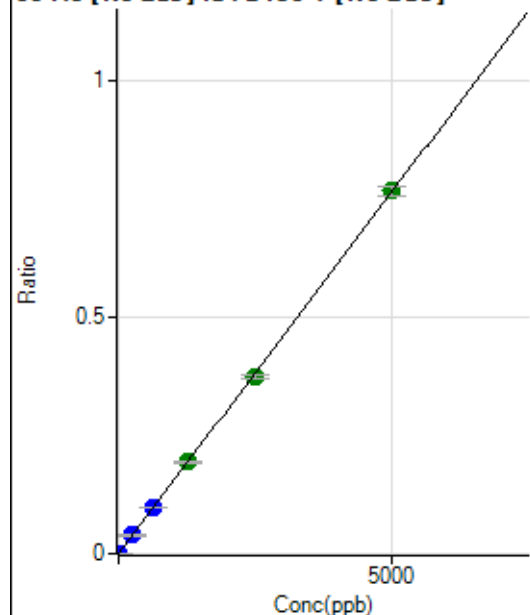
$$DL = 0.03686$$

$$BEC = 0.02541$$

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	88.89	0.0000	P	38.7
2	☐	5.000	4.650	7391.03	0.0007	P	3.3
3	☐	250.000	254.769	402456.35	0.0389	P	2.4
4	☐	625.000	636.159	1026236.92	0.0972	P	1.0
5	☐	1250.000	1268.787	2016203.67	0.1938	A	1.1
6	☐	2500.000	2449.959	3971812.28	0.3741	A	1.9
7	☐	5000.000	5018.691	7953815.37	0.7664	A	2.7
8	☐			3172.67	0.0003	P	6.2

$$y = 1.5271\text{E-}004 * x + 8.6586\text{E-}006$$

$$R = 0.9999$$

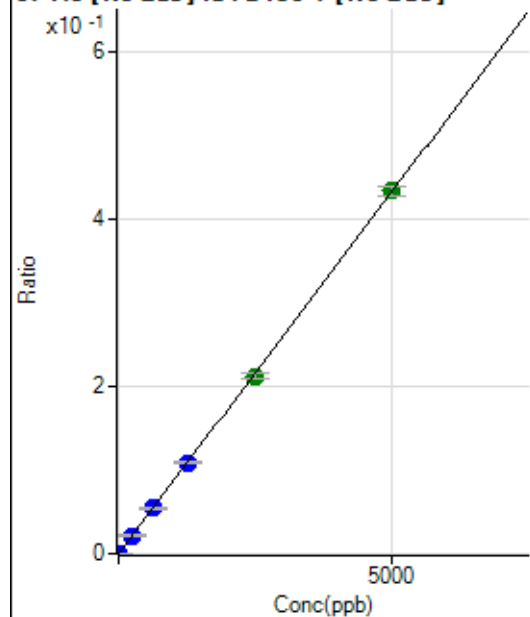
$$DL = 0.06586$$

$$BEC = 0.0567$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	20.9
2	☐	5.000	4.722	4222.98	0.0004	P	0.2
3	☐	250.000	250.530	224113.32	0.0217	P	2.7
4	☐	625.000	625.925	571917.37	0.0541	P	0.4
5	☐	1250.000	1258.066	1132297.84	0.1088	P	1.5
6	☐	2500.000	2458.935	2257602.05	0.2127	A	3.3
7	☐	5000.000	5018.374	4504685.60	0.4341	A	2.6
8	☐			1580.69	0.0002	P	2.7

$$y = 8.6493\text{E-}005 * x + 2.1636\text{E-}006$$

$$R = 0.9999$$

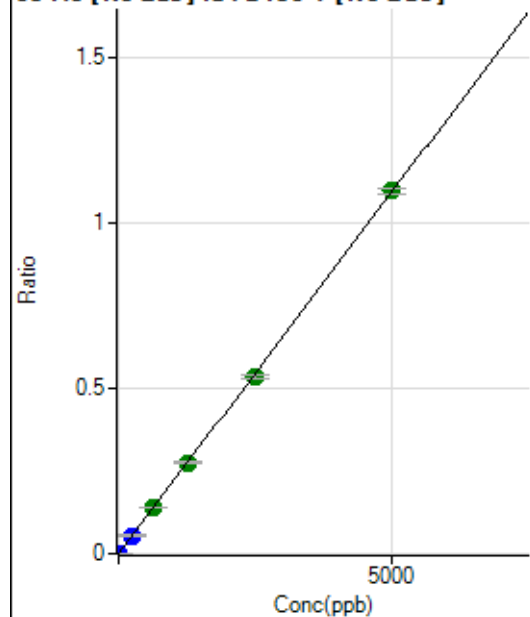
$$DL = 0.01572$$

$$BEC = 0.02501$$

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	25.00	0.0000	P	33.6
2	☐	5.000	4.720	10632.11	0.0010	P	1.2
3	☐	250.000	251.967	569349.13	0.0551	P	4.1
4	☐	625.000	631.106	1456929.48	0.1379	A	1.3
5	☐	1250.000	1262.767	2871671.16	0.2760	A	1.5
6	☐	2500.000	2449.557	5682376.99	0.5353	A	2.8
7	☐	5000.000	5021.168	11389594.87	1.0973	A	1.4
8	☐			3789.52	0.0004	P	5.1

$$y = 2.1854\text{E-}004 * x + 2.4396\text{E-}006$$

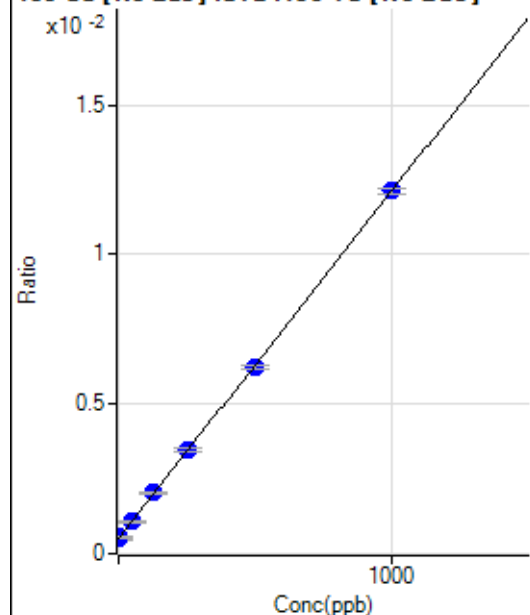
$$R = 0.9999$$

$$DL = 0.01127$$

$$BEC = 0.01116$$

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	3053.21	0.0005	P	14.8
2	☐	1.000	3.624	3361.62	0.0006	P	5.7
3	☐	50.000	47.711	6737.93	0.0011	P	2.6
4	☐	125.000	131.510	12714.51	0.0020	P	2.6
5	☐	250.000	256.180	21801.05	0.0035	P	3.3
6	☐	500.000	493.382	40064.49	0.0062	P	3.0
7	☐	1000.000	1001.062	76914.21	0.0121	P	1.7
8	☐			3075.42	0.0005	P	1.1

$$y = 1.1600\text{E-}005 * x + 5.0887\text{E-}004$$

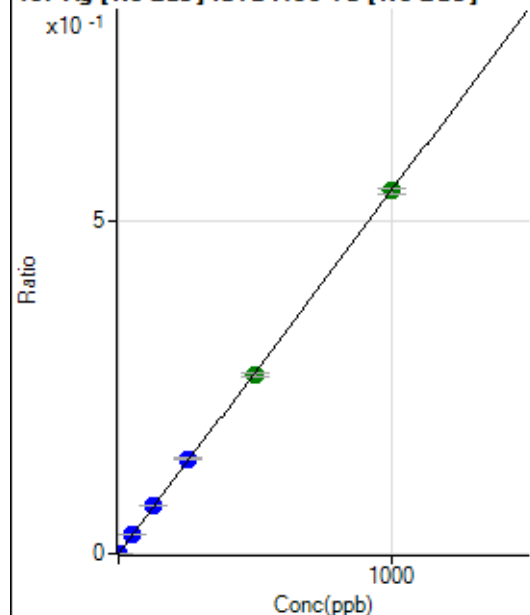
$$R = 0.9999$$

$$DL = 19.49$$

$$BEC = 43.87$$

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	61.11	0.0000	P	54.4
2	☐	1.000	0.944	3206.01	0.0005	P	0.1
3	☐	50.000	51.778	179189.79	0.0283	P	1.7
4	☐	125.000	131.425	448180.97	0.0717	P	0.8
5	☐	250.000	261.941	895357.95	0.1429	P	0.8
6	☐	500.000	493.261	1730230.33	0.2691	A	1.8
7	☐	1000.000	999.492	3460093.35	0.5453	A	1.6
8	☐			2008.54	0.0003	P	11.0

$$y = 5.4555\text{E-}004 * x + 1.0157\text{E-}005$$

$$R = 0.9999$$

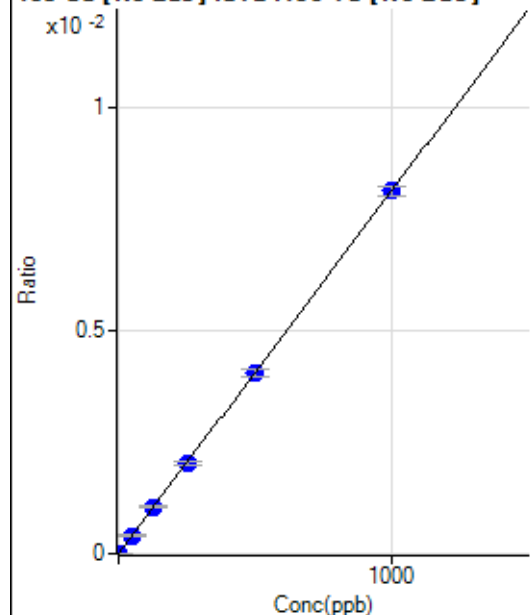
$$DL = 0.0304$$

$$BEC = 0.01862$$

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	11.11	0.0000	P	43.9
2	☐	1.000	1.198	70.83	0.0000	P	19.5
3	☐	50.000	48.471	2504.43	0.0004	P	8.6
4	☐	125.000	129.518	6580.81	0.0011	P	0.6
5	☐	250.000	250.284	12735.16	0.0020	P	3.4
6	☐	500.000	498.384	26003.78	0.0040	P	5.0
7	☐	1000.000	1000.249	51512.43	0.0081	P	2.7
8	☐			81.95	0.0000	P	36.8

$$y = 8.1148\text{E-}006 * x + 1.8533\text{E-}006$$

$$R = 1.0000$$

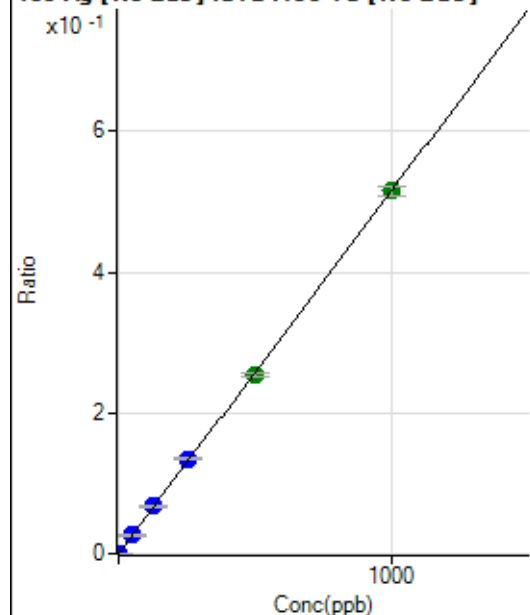
$$DL = 0.3009$$

$$BEC = 0.2284$$

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	47.22	0.0000	P	20.5
2	☐	1.000	0.908	2903.16	0.0005	P	8.9
3	☐	50.000	50.451	165022.24	0.0260	P	1.9
4	☐	125.000	130.673	421180.12	0.0674	P	2.2
5	☐	250.000	261.122	843599.02	0.1347	P	1.3
6	☐	500.000	493.340	1635684.53	0.2544	A	2.0
7	☐	1000.000	999.818	3271506.60	0.5156	A	2.9
8	☐			1683.49	0.0003	P	6.6

$$y = 5.1568\text{E-}004 * x + 7.8673\text{E-}006$$

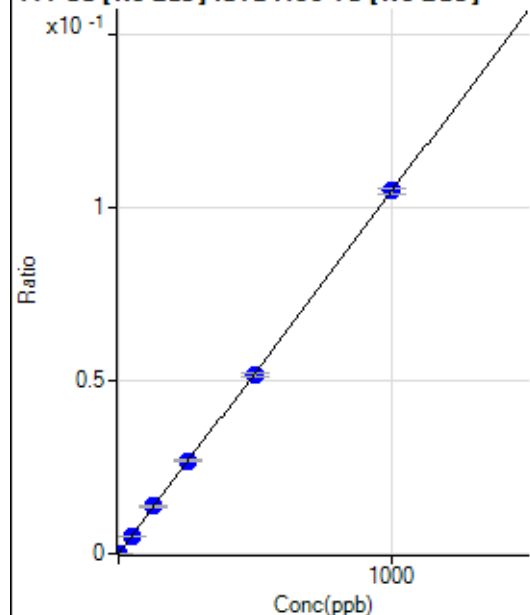
$$R = 0.9999$$

$$DL = 0.009379$$

$$BEC = 0.01526$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	303.10	0.0001	P	13.7
2	☐	1.000	1.235	1094.95	0.0002	P	12.0
3	☐	50.000	49.572	33170.27	0.0052	P	1.2
4	☐	125.000	129.649	84984.58	0.0136	P	1.7
5	☐	250.000	256.619	168323.29	0.0269	P	1.3
6	☐	500.000	492.539	331199.40	0.0515	P	2.3
7	☐	1000.000	1001.516	664355.06	0.1047	P	1.9
8	☐			561.30	0.0001	P	4.7

$$y = 1.0449\text{E-}004 * x + 5.0516\text{E-}005$$

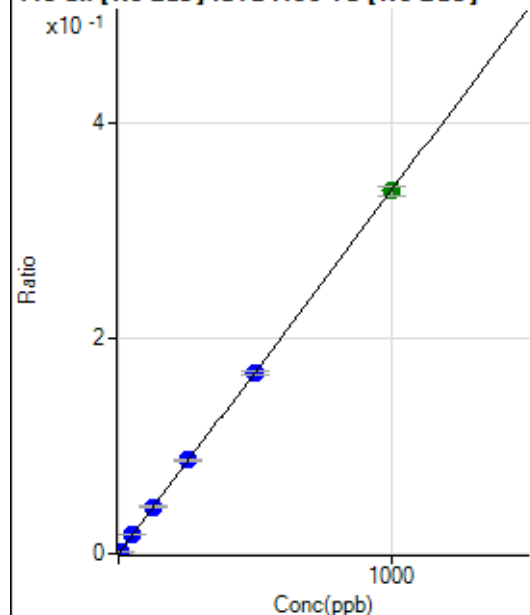
$$R = 0.9999$$

$$DL = 0.1988$$

$$BEC = 0.4834$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	252.79	0.0000	P	16.8
2	☐	5.000	4.886	10329.19	0.0017	P	4.3
3	☐	50.000	50.763	108998.92	0.0172	P	1.6
4	☐	125.000	129.266	273128.11	0.0437	P	1.7
5	☐	250.000	258.680	547549.67	0.0874	P	1.9
6	☐	500.000	497.376	1080215.94	0.1680	P	2.7
7	☐	1000.000	998.571	2140125.03	0.3373	A	2.7
8	☐			861.16	0.0001	P	7.0

$$y = 3.3774\text{E-}004 * x + 4.2132\text{E-}005$$

$$R = 0.9999$$

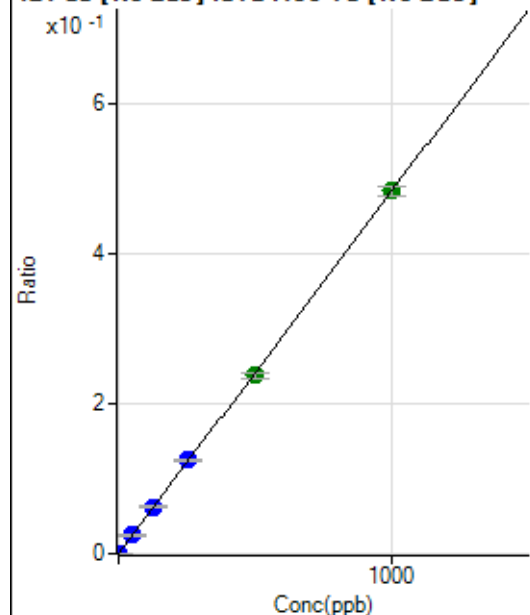
$$DL = 0.06302$$

$$BEC = 0.1247$$

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	30.55	0.0000	P	16.3
2	☐	2.000	1.874	5562.41	0.0009	P	2.4
3	☐	50.000	50.446	154645.23	0.0244	P	1.9
4	☐	125.000	129.977	392689.58	0.0628	P	1.2
5	☐	250.000	258.226	781938.49	0.1248	P	1.0
6	☐	500.000	491.750	1527955.99	0.2377	A	3.1
7	☐	1000.000	1001.424	3071246.38	0.4840	A	2.4
8	☐			2150.22	0.0003	P	7.8

$$y = 4.8334\text{E-}004 * x + 5.0926\text{E-}006$$

$$R = 0.9999$$

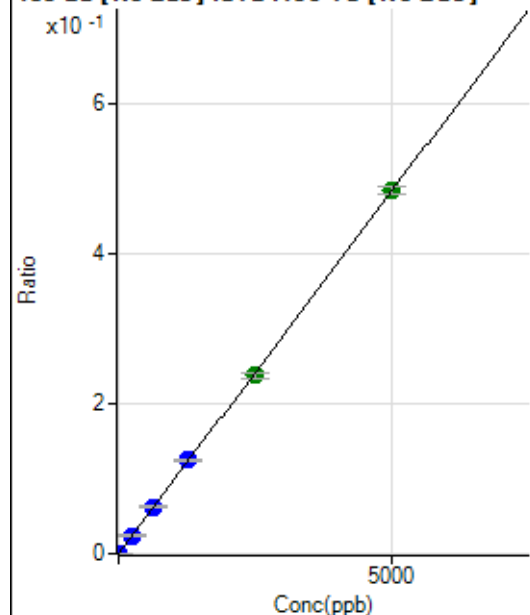
$$DL = 0.005149$$

$$BEC = 0.01054$$

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	8.33	0.0000	P	0.7
2	☐	10.000	9.393	5551.28	0.0009	P	6.7
3	☐	250.000	252.077	154581.83	0.0244	P	2.2
4	☐	625.000	646.188	390547.51	0.0625	P	2.0
5	☐	1250.000	1287.419	779990.02	0.1245	P	0.8
6	☐	2500.000	2461.043	1529908.54	0.2380	A	3.0
7	☐	5000.000	5007.373	3072579.19	0.4842	A	2.1
8	☐			5709.70	0.0009	P	5.4

$$y = 9.6703\text{E-}005 * x + 1.3876\text{E-}006$$

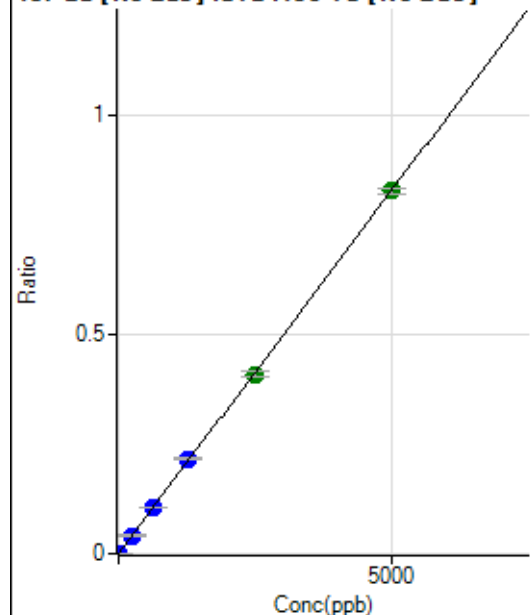
$$R = 0.9999$$

$$DL = 0.0002817$$

$$BEC = 0.01435$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	88.0
2	☐	10.000	9.388	9498.06	0.0016	P	2.8
3	☐	250.000	251.519	263653.29	0.0416	P	1.4
4	☐	625.000	643.237	664520.65	0.1063	P	0.6
5	☐	1250.000	1310.252	1356803.75	0.2166	P	0.6
6	☐	2500.000	2472.687	2627492.35	0.4087	A	2.5
7	☐	5000.000	4996.240	5239999.64	0.8258	A	1.9
8	☐			9867.72	0.0015	P	3.3

$$y = 1.6529E-004 * x + 4.1588E-006$$

$$R = 0.9999$$

$$DL = 0.06644$$

$$BEC = 0.02516$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			11.11		P	69.3
3	☐			8.89		P	43.3
4	☐			11.11		P	124.
5	☐			31.11		P	65.5
6	☐			86.67		P	20.4
7	☐			122.22		P	30.0
8	☐			17.78		P	78.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			1.11		P	173.
4	☐			2.22		P	86.6
5	☐			3.33		P	0.0
6	☐			11.11		P	45.8
7	☐			14.45		P	74.2
8	☐			0.00		P	

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐			16.67		P	50.0
3	☐			16.67		P	132.
4	☐			16.66		P	86.6
5	☐			27.78		P	17.3
6	☐			38.89		P	44.6
7	☐			83.34		P	20.0
8	☐			163.89		P	14.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			5.55		P	69.3
4	☐			4.44		P	43.4
5	☐			13.33		P	NaN
6	☐			25.56		P	39.8
7	☐			24.44		P	41.7
8	☐			111.11		P	19.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	30.1
2	☐			52.78		P	24.1
3	☐			58.33		P	14.3
4	☐			66.67		P	21.7
5	☐			69.45		P	25.0
6	☐			69.45		P	42.1
7	☐			113.89		P	4.2
8	☐			244.45		P	7.9

160 Gd [He] No available calibration points

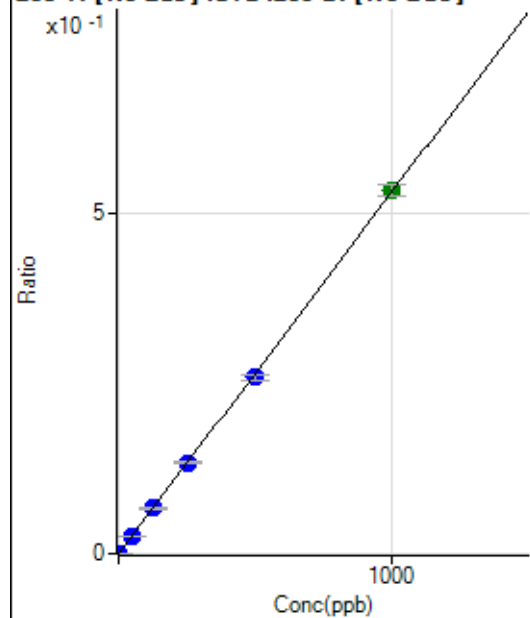
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	6.0
2	☐			12.22		P	41.7
3	☐			25.56		P	19.9
4	☐			28.89		P	37.1
5	☐			28.89		P	43.7
6	☐			41.11		P	12.4
7	☐			35.56		P	14.3
8	☐			116.67		P	24.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	33.3
2	☐			16.67		P	86.6
3	☐			33.33		P	25.0
4	☐			27.78		P	45.8
5	☐			13.89		P	124.
6	☐			33.33		P	50.0
7	☐			38.89		P	61.9
8	☐			47.22		P	56.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	56.8
2	☐			15.56		P	32.7
3	☐			13.33		P	50.0
4	☐			17.78		P	39.0
5	☐			7.78		P	137.
6	☐			13.33		P	43.3
7	☐			18.89		P	10.2
8	☐			35.56		P	14.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.66	0.0000	P	87.0
2	☐	1.000	0.981	1683.50	0.0005	P	8.7
3	☐	50.000	49.784	86744.97	0.0264	P	1.2
4	☐	125.000	125.499	219611.67	0.0666	P	1.3
5	☐	250.000	252.481	445811.18	0.1340	P	2.4
6	☐	500.000	488.795	887260.10	0.2594	P	3.7
7	☐	1000.000	1004.931	1775299.30	0.5334	A	3.3
8	☐			1133.42	0.0004	P	12.2

$$y = 5.3074\text{E-}004 * x + 5.2017\text{E-}006$$

$$R = 0.9999$$

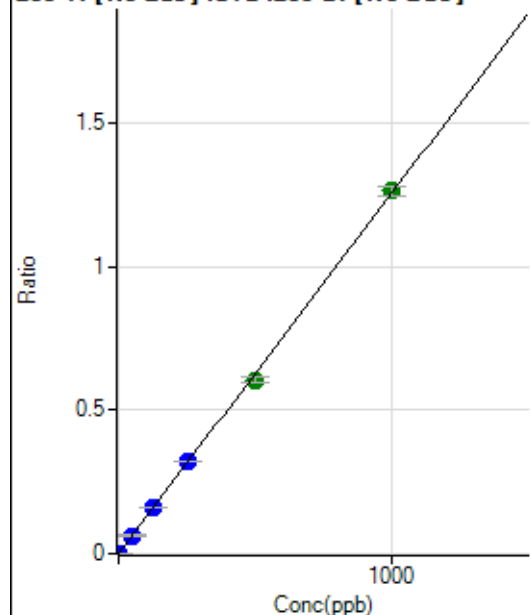
$$DL = 0.02559$$

$$BEC = 0.009801$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.9
2	☐	1.000	0.915	3695.08	0.0012	P	4.6
3	☐	50.000	50.308	207372.31	0.0632	P	1.8
4	☐	125.000	127.204	526665.13	0.1598	P	0.6
5	☐	250.000	256.241	1070742.43	0.3218	P	1.0
6	☐	500.000	482.365	2071737.16	0.6058	A	3.7
7	☐	1000.000	1006.967	4209321.15	1.2646	A	2.7
8	☐			2719.81	0.0008	P	11.5

$$y = 0.0013 * x + 6.0685E-006$$

$$R = 0.9997$$

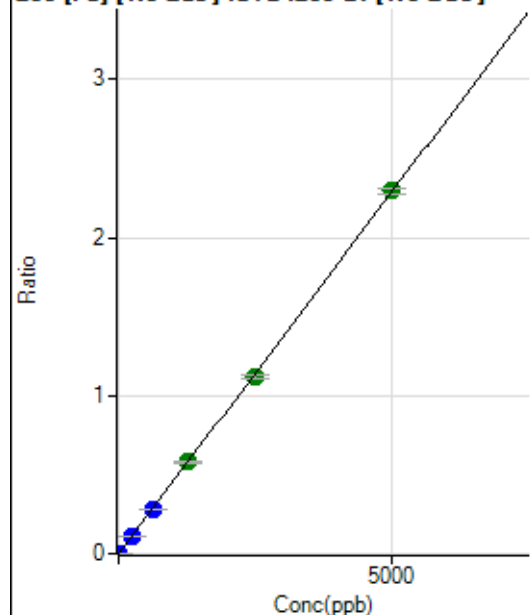
$$DL = 0.009548$$

$$BEC = 0.004832$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	429.65	0.0001	P	12.0
2	☐	1.000	0.878	1711.26	0.0005	P	5.8
3	☐	250.000	247.313	371191.45	0.1131	P	1.5
4	☐	625.000	618.126	931202.08	0.2825	P	1.0
5	☐	1250.000	1267.628	1926997.08	0.5791	A	1.0
6	☐	2500.000	2444.619	3819962.88	1.1167	A	1.8
7	☐	5000.000	5024.277	7640131.36	2.2950	A	1.6
8	☐			4317.47	0.0013	P	4.5

$$y = 4.5676E-004 * x + 1.3383E-004$$

$$R = 0.9999$$

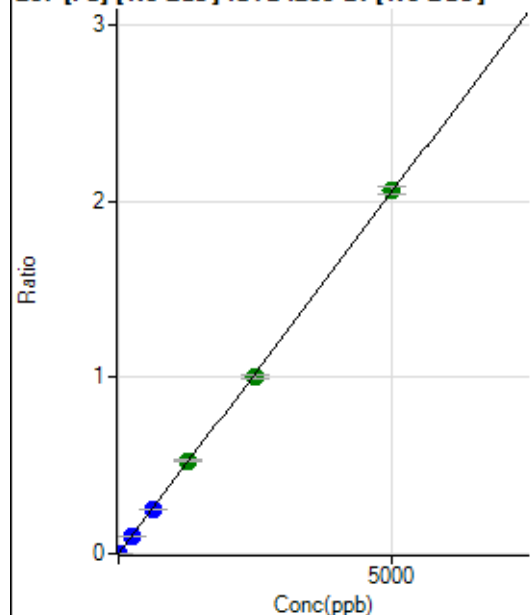
$$DL = 0.1056$$

$$BEC = 0.293$$

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	433.35	0.0001	P	7.3
2	☐	1.000	0.796	1474.18	0.0005	P	7.7
3	☐	250.000	247.206	332785.94	0.1014	P	0.4
4	☐	625.000	616.907	833470.14	0.2528	P	0.4
5	☐	1250.000	1280.010	1744678.54	0.5244	A	1.9
6	☐	2500.000	2444.779	3425682.43	1.0015	A	2.3
7	☐	5000.000	5021.260	6846545.29	2.0568	A	2.0
8	☐			3878.43	0.0012	P	2.1

$$y = 4.0959\text{E-}004 * x + 1.3497\text{E-}004$$

$$R = 0.9999$$

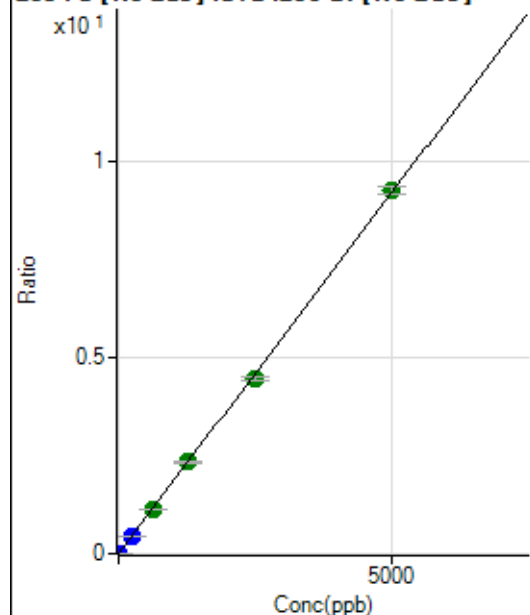
$$DL = 0.0719$$

$$BEC = 0.3295$$

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	1835.28	0.0006	P	7.1
2	☐	1.000	0.862	6906.42	0.0022	P	2.4
3	☐	250.000	247.218	1495383.75	0.4556	P	0.6
4	☐	625.000	622.768	3780821.37	1.1468	A	0.6
5	☐	1250.000	1269.628	7776958.41	2.3374	A	1.4
6	☐	2500.000	2427.861	15287118.11	4.4692	A	2.4
7	☐	5000.000	5031.580	30830774.36	9.2615	A	2.0
8	☐			17480.83	0.0054	P	2.6

$$y = 0.0018 * x + 5.7164\text{E-}004$$

$$R = 0.9998$$

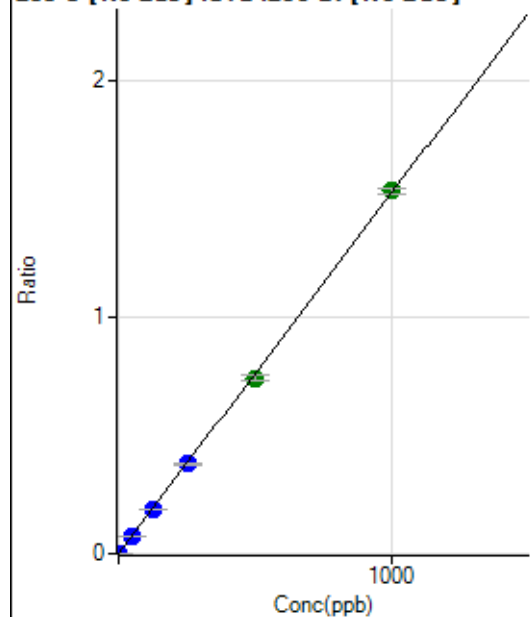
$$DL = 0.06633$$

$$BEC = 0.3106$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.7
2	☐	1.000	0.891	4348.10	0.0014	P	3.4
3	☐	50.000	48.444	241959.95	0.0737	P	1.1
4	☐	125.000	123.325	618721.61	0.1877	P	0.7
5	☐	250.000	249.113	1261281.84	0.3791	P	1.4
6	☐	500.000	487.697	2538420.57	0.7421	A	2.5
7	☐	1000.000	1006.660	5099360.31	1.5318	A	1.8
8	☐			716.71	0.0002	P	22.1

$$y = 0.0015 * x + 2.5892E-006$$

$$R = 0.9999$$

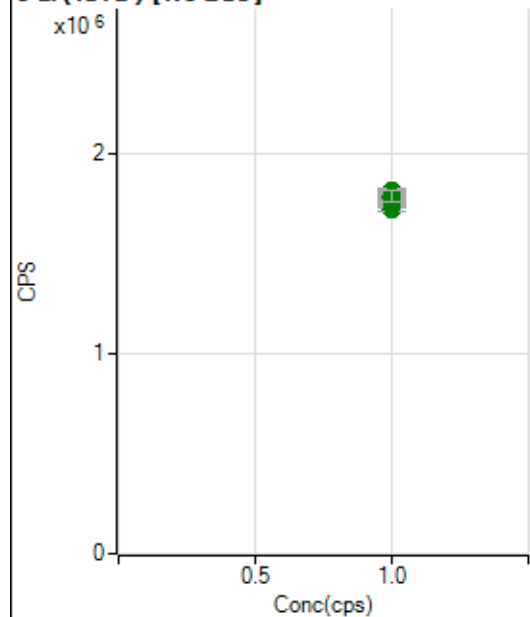
$$DL = 0.005088$$

$$BEC = 0.001702$$

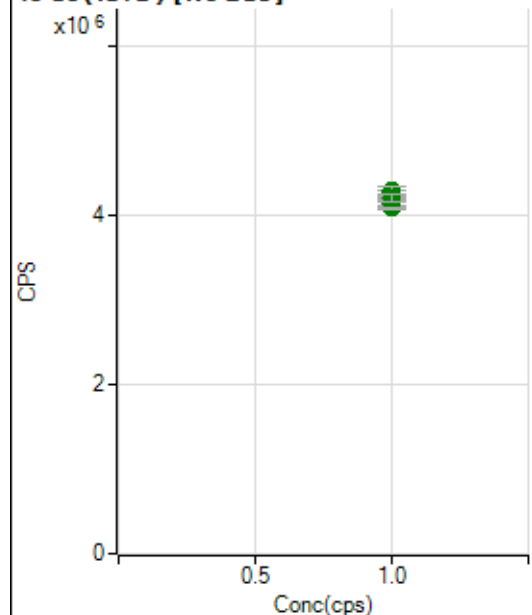
Weight: <None>

Min Conc: 0

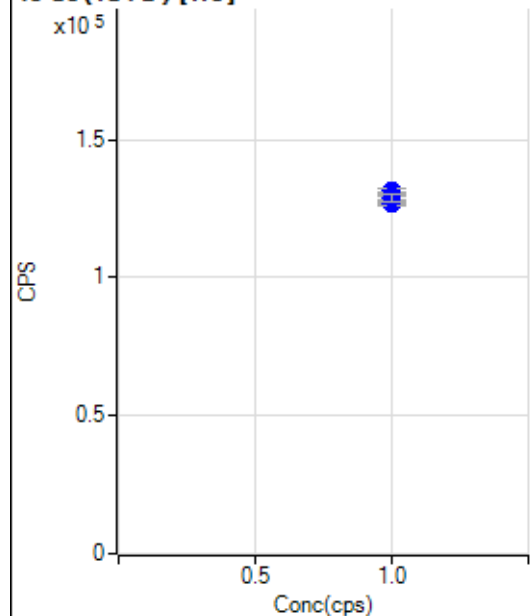
6 Li (ISTD) [No Gas]



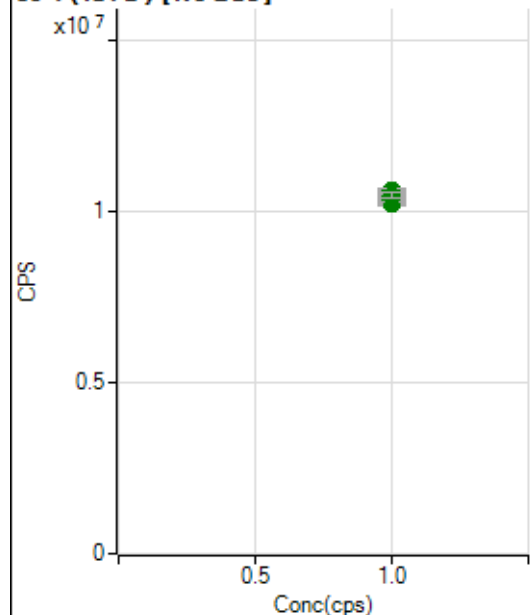
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1720477.37		A	0.6
2	☐	1.000		1742034.66		A	0.4
3	☐	1.000		1757823.29		A	0.4
4	☐	1.000		1792191.36		A	0.4
5	☐	1.000		1790436.67		A	1.3
6	☐	1.000		1813314.11		A	1.0
7	☐	1.000		1779668.07		A	1.7
8	☐	1.000		1786349.15		A	2.9

45 Sc (ISTD) [No Gas]

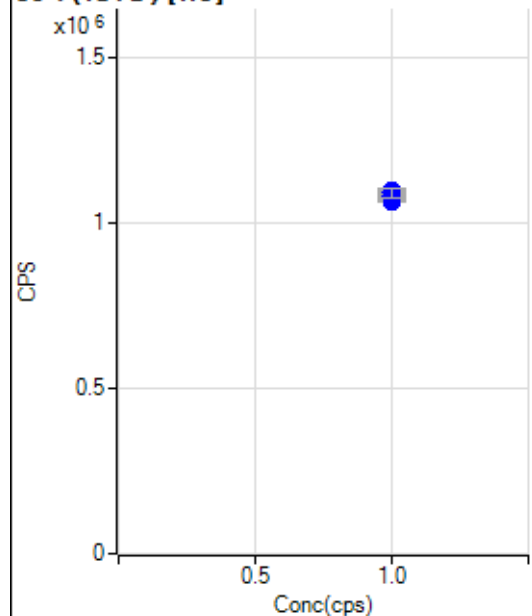
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4128988.38		A	1.3
2	☐	1.000		4083902.13		A	0.5
3	☐	1.000		4202941.29		A	0.5
4	☐	1.000		4262411.60		A	0.9
5	☐	1.000		4257473.65		A	1.6
6	☐	1.000		4284477.96		A	2.4
7	☐	1.000		4203487.47		A	1.2
8	☐	1.000		4205139.42		A	2.1

45 Sc (ISTD) [He]

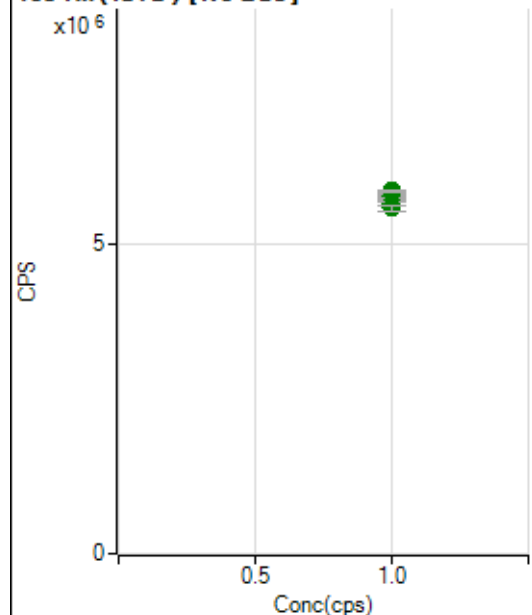
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		126746.42		P	0.3
2	☐	1.000		129139.59		P	1.2
3	☐	1.000		131394.71		P	1.0
4	☐	1.000		129315.80		P	2.4
5	☐	1.000		129785.08		P	0.3
6	☐	1.000		127199.18		P	0.9
7	☐	1.000		126443.06		P	1.0
8	☐	1.000		128990.51		P	1.9

89 Y (ISTD) [No Gas]

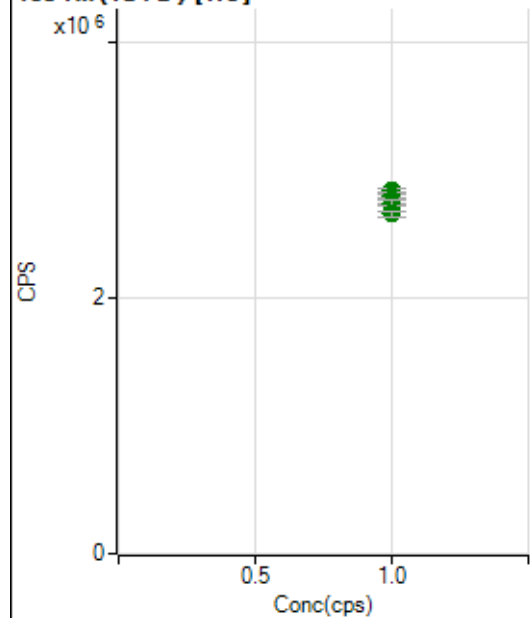
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10259791.03		A	1.0
2	☐	1.000		10284157.76		A	1.0
3	☐	1.000		10345782.00		A	2.4
4	☐	1.000		10563437.41		A	1.0
5	☐	1.000		10406260.40		A	1.2
6	☐	1.000		10617345.95		A	1.3
7	☐	1.000		10380436.51		A	1.3
8	☐	1.000		10492505.26		A	1.9

89 Y (ISTD) [He]

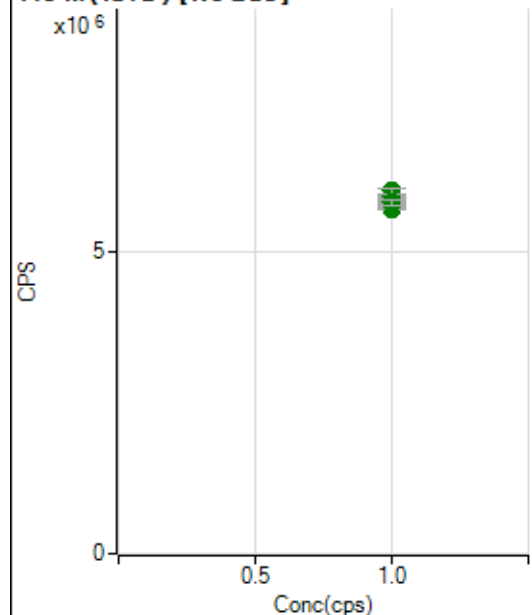
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1063832.94		P	0.3
2	☐	1.000		1078823.06		P	0.5
3	☐	1.000		1096391.73		P	1.5
4	☐	1.000		1082141.98		P	2.5
5	☐	1.000		1082298.31		P	1.6
6	☐	1.000		1081452.73		P	1.4
7	☐	1.000		1073869.10		P	0.1
8	☐	1.000		1090337.44		P	2.8

103 Rh (ISTD) [No Gas]

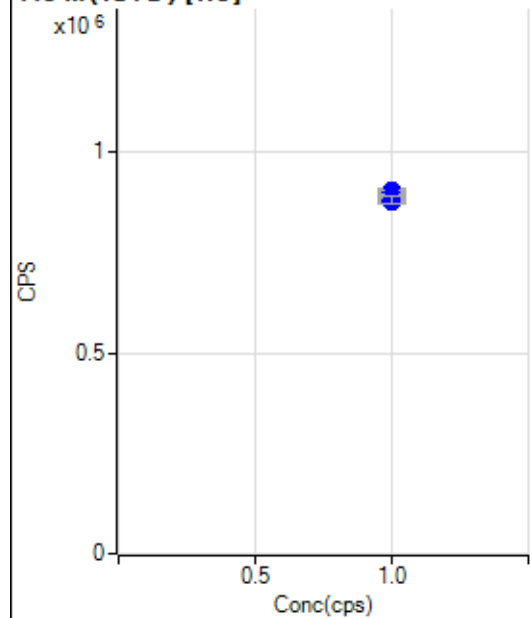
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5681447.04		A	0.9
2	☐	1.000		5682734.07		A	0.4
3	☐	1.000		5793105.03		A	1.2
4	☐	1.000		5845197.40		A	0.6
5	☐	1.000		5757960.50		A	1.2
6	☐	1.000		5838929.95		A	0.7
7	☐	1.000		5644782.90		A	1.4
8	☐	1.000		5562407.46		A	1.4

103 Rh (ISTD) [He]

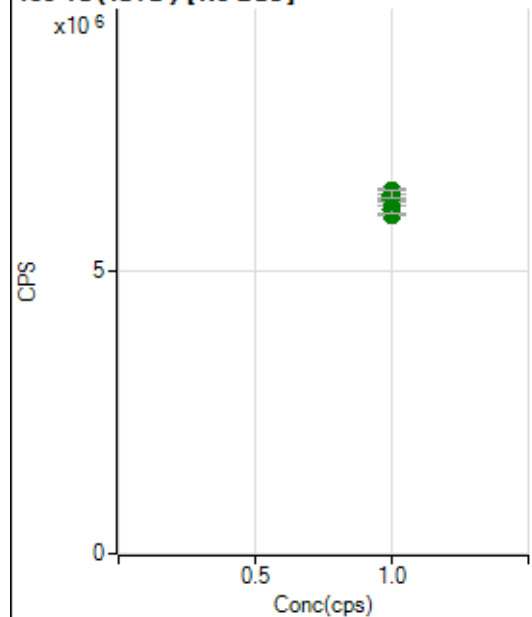
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2779388.64		A	0.6
2	☐	1.000		2765986.38		A	0.2
3	☐	1.000		2839181.34		A	1.6
4	☐	1.000		2788548.36		A	1.8
5	☐	1.000		2801618.74		A	2.0
6	☐	1.000		2761517.18		A	1.3
7	☐	1.000		2745139.16		A	1.2
8	☐	1.000		2662967.03		A	1.7

115 In (ISTD) [No Gas]

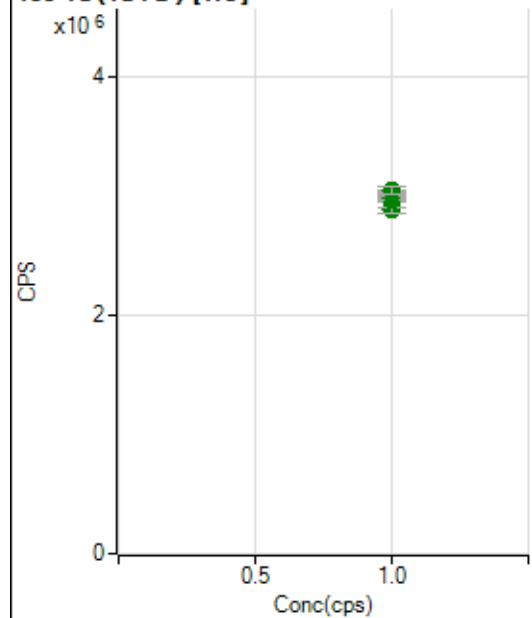
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5692822.21		A	0.2
2	☐	1.000		5785476.68		A	2.0
3	☐	1.000		5944573.79		A	0.9
4	☐	1.000		5934619.47		A	0.7
5	☐	1.000		5922075.42		A	0.9
6	☐	1.000		6011471.64		A	1.3
7	☐	1.000		5785464.78		A	0.9
8	☐	1.000		5820790.47		A	1.6

115 In (ISTD) [He]

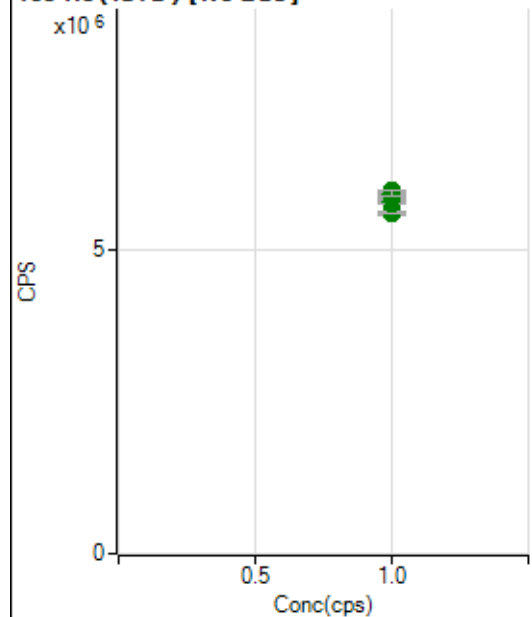
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		875028.33		P	0.3
2	☐	1.000		888194.07		P	0.5
3	☐	1.000		903219.04		P	1.2
4	☐	1.000		899715.59		P	2.3
5	☐	1.000		898495.80		P	1.1
6	☐	1.000		889909.07		P	1.4
7	☐	1.000		875564.73		P	0.9
8	☐	1.000		882096.01		P	2.3

159 Tb (ISTD) [No Gas]

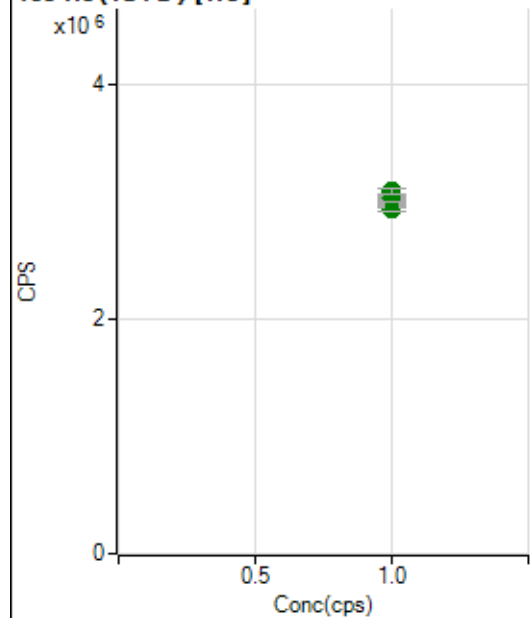
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6003529.29		A	0.7
2	☐	1.000		6106584.35		A	2.0
3	☐	1.000		6342086.85		A	1.3
4	☐	1.000		6250191.16		A	0.8
5	☐	1.000		6265182.89		A	1.2
6	☐	1.000		6430878.72		A	1.9
7	☐	1.000		6346028.45		A	1.0
8	☐	1.000		6384228.10		A	2.1

159 Tb (ISTD) [He]

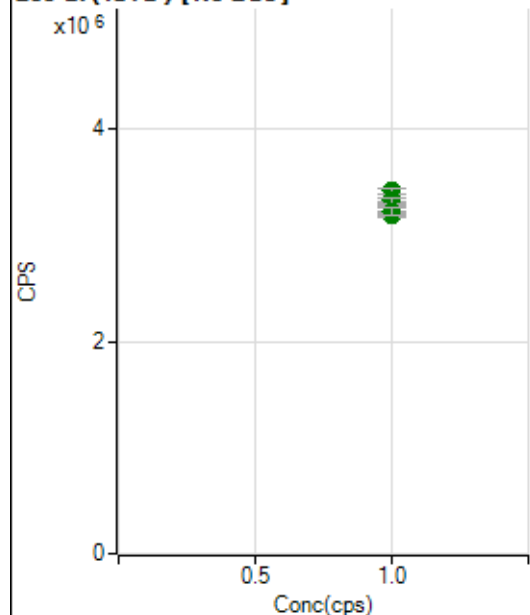
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2879493.78		A	1.5
2	☐	1.000		2962300.79		A	1.3
3	☐	1.000		3018664.64		A	1.8
4	☐	1.000		2989186.69		A	1.4
5	☐	1.000		2995640.89		A	2.4
6	☐	1.000		3018015.16		A	0.6
7	☐	1.000		3010066.59		A	0.6
8	☐	1.000		3041602.07		A	2.1

165 Ho (ISTD) [No Gas]

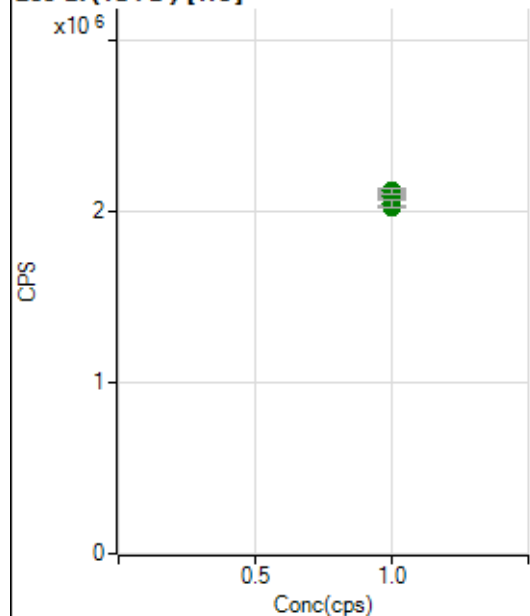
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5625786.20		A	1.3
2	☐	1.000		5638886.89		A	0.8
3	☐	1.000		5786517.23		A	0.4
4	☐	1.000		5817547.27		A	1.4
5	☐	1.000		5880644.75		A	1.5
6	☐	1.000		5986116.97		A	0.7
7	☐	1.000		5910295.23		A	1.4
8	☐	1.000		5947294.02		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2935109.47		A	1.0
2	☐	1.000		2994675.20		A	1.7
3	☐	1.000		3006759.64		A	1.4
4	☐	1.000		3026261.45		A	1.8
5	☐	1.000		3030474.16		A	0.8
6	☐	1.000		3036679.54		A	2.2
7	☐	1.000		3090826.55		A	1.6
8	☐	1.000		3086532.38		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3211029.64		A	0.5
2	☐	1.000		3199900.20		A	1.3
3	☐	1.000		3282426.79		A	1.1
4	☐	1.000		3296853.28		A	0.8
5	☐	1.000		3327753.25		A	1.9
6	☐	1.000		3421219.29		A	1.4
7	☐	1.000		3329377.31		A	1.5
8	☐	1.000		3228875.82		A	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2024737.66		A	0.7
2	☐	1.000		2088789.74		A	0.6
3	☐	1.000		2081107.19		A	0.7
4	☐	1.000		2100114.08		A	2.6
5	☐	1.000		2091347.11		A	0.5
6	☐	1.000		2092514.95		A	2.2
7	☐	1.000		2118939.85		A	1.4
8	☐	1.000		2042516.69		A	2.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8102020MS.b
Acq. Date-Time 2020-10-20 10:58:10
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		2651	26513.37			1.407	5.000
24		31665	316649.39			1.380	5.000
25		4207	42067.83			1.828	5.000
26		4799	47992.41			1.674	5.000
59		18190	181904.59			1.532	5.000
113		2740	27400.30			1.553	5.000
115		8121	81208.13			1.636	5.000
206		2774	27741.87			1.735	5.000
207		2319	23185.33			2.285	5.000
208		5700	56996.43			1.652	5.000
220		1	6.00			25.685	

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

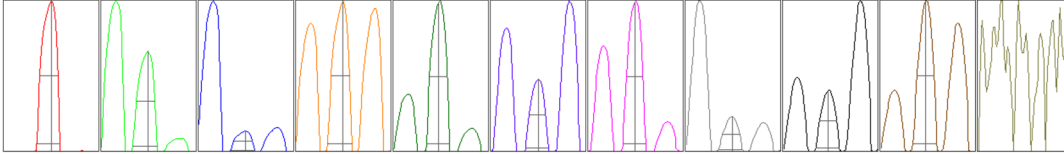
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2659	2586	2678	2667	2666
24	31644	30936	31782	31889	32075
25	4217	4072	4256	4246	4243
26	4821	4663	4798	4864	4850
59	18279	17694	18310	18319	18351
113	2735	2675	2790	2736	2763
115	8166	7899	8208	8103	8227
206	2783	2693	2805	2774	2816
207	2340	2233	2371	2307	2343
208	5750	5540	5774	5694	5740

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	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4920.63	9.05	8.90 - 9.10	
24	57134.66	24.00	23.90 - 24.10	
25	7573.68	25.00	24.90 - 25.10	
26	8864.73	26.00	25.90 - 26.10	
59	34286.19	58.95	58.90 - 59.10	
113	5540.39	113.05	112.90 - 113.10	
115	16375.78	115.00	114.90 - 115.10	
206	5412.86	206.00	205.90 - 206.10	
207	4471.72	206.95	206.90 - 207.10	
208	11115.87	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.731	0.900	
24	0.58	0.779	0.900	
25	0.59	0.757	0.900	
26	0.58	0.777	0.900	
59	0.56	0.730	0.900	
113	0.51	0.722	0.900	
115	0.51	0.725	0.900	
206	0.54	0.741	0.900	
207	0.54	0.741	0.900	
208	0.53	0.764	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	14.2 V
Extract 2	-230.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3971	39707.16			1.220	
89		8557	85574.21			1.555	
205		7917	79172.94			1.121	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3905	4021	3996	3997	3935
89	8322	8637	8619	8627	8582
205	7777	7975	8010	7909	7916

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	5.6 V
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US EPA Tune Check Report

Extract 2	-230.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V