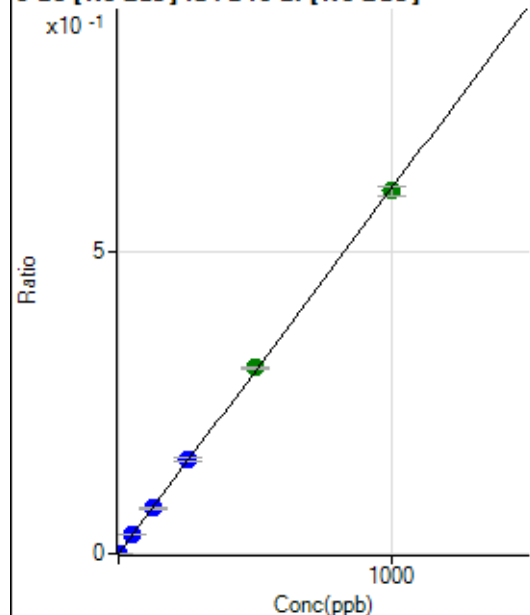


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011923 MS.b\
Analysis File: P8011923 MS.batch.bin
DA Date-Time: 2023-01-19 18:13:10
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-01-19 12:46:46
2	005CALS.d	S02	2023-01-19 12:49:57
3	006CALS.d	S03	2023-01-19 12:53:11
4	007CALS.d	S04	2023-01-19 12:56:18
5	008CALS.d	S05	2023-01-19 12:59:27
6	009CALS.d	S06	2023-01-19 13:02:34
7	010CALS.d	S07	2023-01-19 13:05:42
8	011CALS.d	S08	2023-01-19 13:08:49

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.50	0.0000	P	11.8
2	☐	1.000	1.137	3081.61	0.0007	P	2.0
3	☐	50.000	52.510	143578.42	0.0317	P	5.4
4	☐	125.000	124.076	357397.88	0.0749	P	5.5
5	☐	250.000	257.855	707743.23	0.1556	P	5.2
6	☐	500.000	508.844	1364697.12	0.3070	A	1.7
7	☐	1000.000	993.604	2655095.69	0.5995	A	2.5
8	☐			939.08	0.0002	P	12.0

$$y = 6.0339\text{E-}004 * x + 7.1435\text{E-}006$$

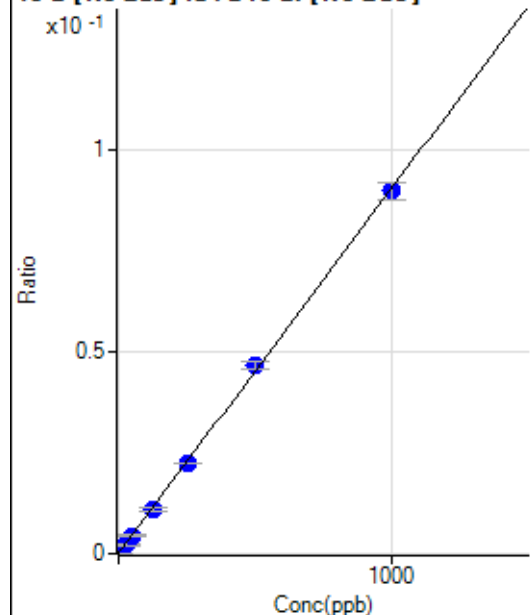
$$R = 0.9999$$

$$DL = 0.004175$$

$$BEC = 0.01184$$

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	333.27	0.0001	P	2.9
2	☐	25.000	23.233	9671.31	0.0022	P	5.3
3	☐	50.000	48.711	20314.74	0.0045	P	2.5
4	☐	125.000	119.066	51656.07	0.0108	P	10.1
5	☐	250.000	247.099	102124.42	0.0224	P	0.9
6	☐	500.000	516.105	207711.74	0.0467	P	4.2
7	☐	1000.000	993.523	398056.96	0.0899	P	4.6
8	☐			28971.66	0.0072	P	9.4

$$y = 9.0434\text{E-}005 * x + 7.3142\text{E-}005$$

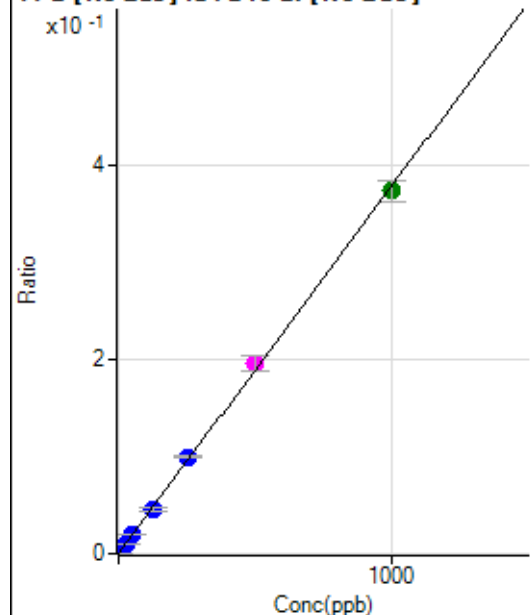
$$R = 0.9998$$

$$DL = 0.07139$$

$$BEC = 0.8088$$

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	1265.14	0.0003	P	4.4
2	☐	25.000	24.341	42091.42	0.0095	P	4.6
3	☐	50.000	51.855	89996.22	0.0198	P	3.3
4	☐	125.000	122.245	221328.67	0.0464	P	8.4
5	☐	250.000	262.724	452745.00	0.0994	P	1.8
6	☐	500.000	518.869	870534.14	0.1961	M	8.4
7	☐	1000.000	987.653	1650984.34	0.3730	A	5.9
8	☐			125680.54	0.0312	P	9.1

$$y = 3.7735E-004 * x + 2.7784E-004$$

$$R = 0.9996$$

$$DL = 0.09658$$

$$BEC = 0.7363$$

Weight: <None>

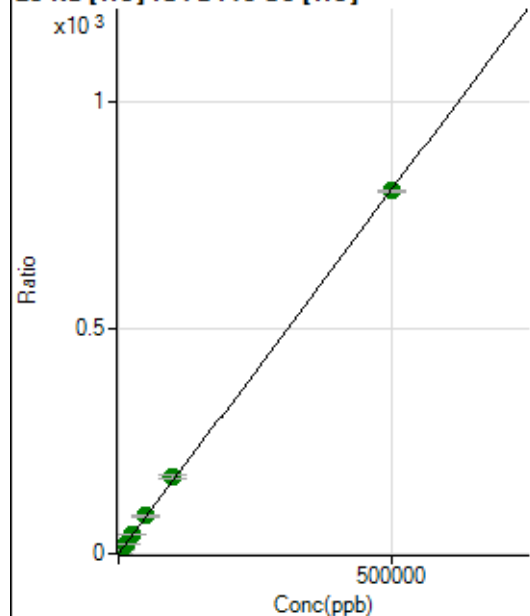
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5887314.32		A	1.7
2	☐			5922880.12		A	1.1
3	☐			6240567.07		A	1.0
4	☐			6260449.92		A	0.1
5	☐			6380845.41		A	0.8
6	☐			7035866.30		A	2.1
7	☐			8061178.57		A	1.4
8	☐			7490751.38		A	0.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			65398.84		P	2.3
2	☐			67115.28		P	0.1
3	☐			68646.86		P	1.4
4	☐			70522.48		P	1.2
5	☐			72962.26		P	0.4
6	☐			80568.33		P	0.6
7	☐			96891.65		P	2.1
8	☐			88980.47		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13286.92	0.0747	P	5.5
2	☐	500.000	491.921	161953.83	0.8680	P	1.8
3	☐	5000.000	5101.728	1537728.06	8.3020	A	1.0
4	☐	12500.000	12981.604	3736590.97	21.0094	A	4.7
5	☐	25000.000	25770.418	7196621.95	41.6332	A	1.0
6	☐	50000.000	52094.510	14511495.64	84.0845	A	3.8
7	☐	100000.00	105519.47	29270463.15	170.2398	A	4.2
8	☐	500000.00	498635.08	136098816.9	804.1945	A	0.6

$$y = 0.0016 * x + 0.0747$$

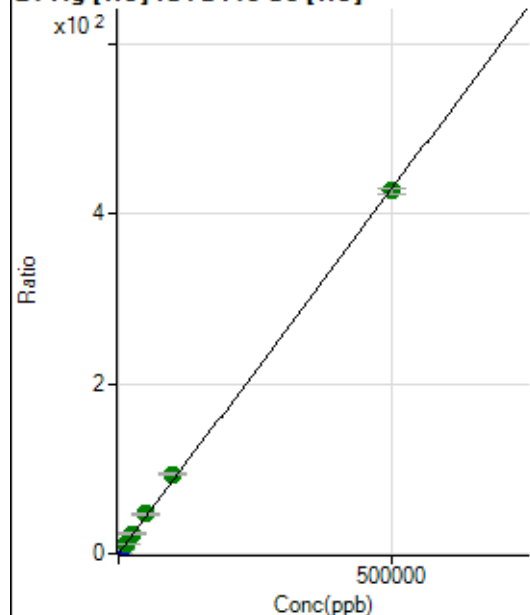
$$R = 0.9999$$

$$DL = 7.697$$

$$BEC = 46.32$$

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	466.69	0.0026	P	17.0
2	☐	500.000	516.588	83263.24	0.4463	P	2.8
3	☐	5000.000	5343.162	850323.84	4.5913	P	1.6
4	☐	12500.000	13925.354	2127471.03	11.9616	A	4.2
5	☐	25000.000	27599.514	4097205.30	23.7049	A	0.7
6	☐	50000.000	54094.026	8016035.25	46.4582	A	4.3
7	☐	100000.00	109283.76	16137945.15	93.8547	A	3.5
8	☐	500000.00	497564.78	72315647.45	427.3076	A	1.4

$$y = 8.5879E-004 * x + 0.0026$$

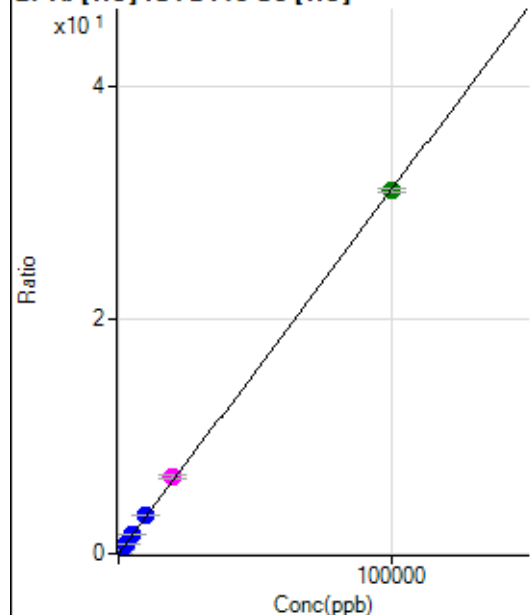
$$R = 0.9998$$

$$DL = 1.555$$

$$BEC = 3.053$$

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	57.91	0.0003	P	17.9
2	☐	20.000	21.734	1321.98	0.0071	P	5.1
3	☐	1000.000	1041.996	60086.88	0.3244	P	2.2
4	☐	2500.000	2631.878	145665.44	0.8189	P	2.5
5	☐	5000.000	5215.581	280470.16	1.6225	P	1.7
6	☐	10000.000	10501.379	563724.90	3.2666	P	2.4
7	☐	20000.000	21248.433	1136164.23	6.6093	M	5.9
8	☐	100000.00	99685.679	5247562.61	31.0057	A	1.2

$$y = 3.1103E-004 * x + 3.2476E-004$$

$$R = 0.9999$$

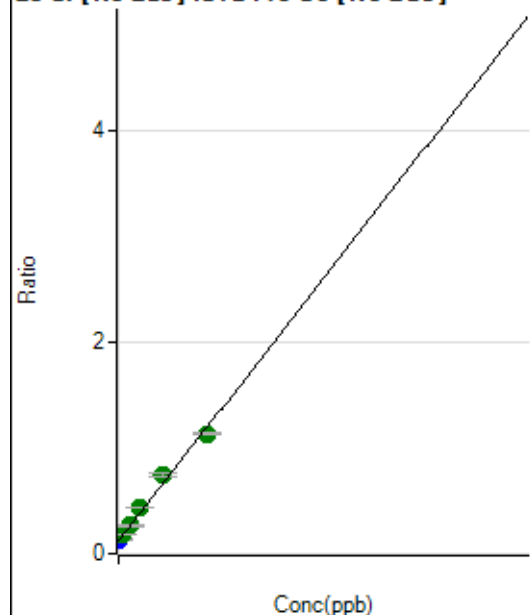
$$DL = 0.5615$$

$$BEC = 1.044$$

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	782766.63	0.1215	P	2.0
2	☐	10.000	12.775	852210.68	0.1352	P	2.5
3	☐	50.000	54.711	1143862.76	0.1802	A	0.5
4	☐	125.000	136.938	1724926.23	0.2685	A	6.6
5	☐	250.000	290.300	2616766.51	0.4331	A	2.2
6	☐	500.000	582.528	4469114.20	0.7468	A	4.7
7	☐	1000.000	946.905	7150323.86	1.1379	A	1.5
8	☐			1090330.85	0.1912	A	1.3

$$y = 0.0011 * x + 0.1215$$

$$R = 0.9937$$

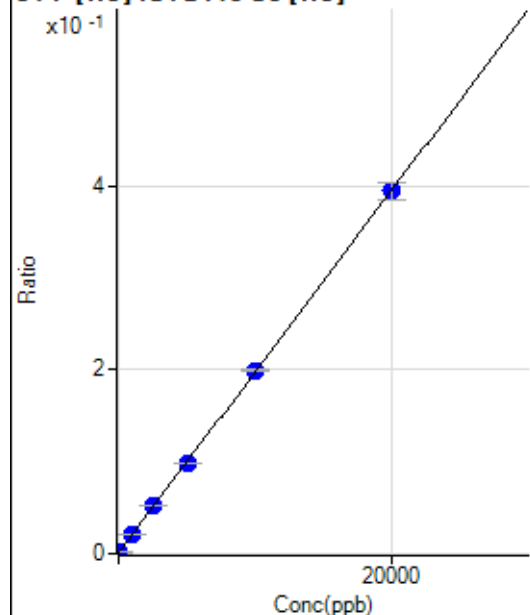
$$DL = 6.745$$

$$BEC = 113.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-13.515	172.23	0.0010	P	18.8
2	☐	0.000	13.515	280.57	0.0015	P	18.4
3	☐	1000.000	991.868	3850.63	0.0208	P	5.8
4	☐	2500.000	2580.837	9269.89	0.0521	P	1.5
5	☐	5000.000	4938.500	17035.50	0.0986	P	0.5
6	☐	10000.000	10057.698	34419.28	0.1994	P	1.5
7	☐	20000.000	19976.828	67890.71	0.3949	P	5.1
8	☐			213.90	0.0013	P	19.1

$$y = 1.9706E-005 * x + 0.0012$$

$$R = 1.0000$$

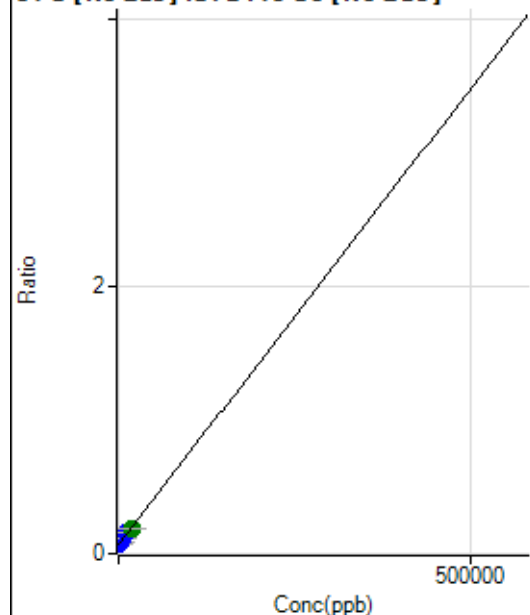
$$DL = 34.97$$

$$BEC = 62.82$$

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	-135.382	423102.36	0.0657	P	1.8
2	☐	0.000	135.382	425605.17	0.0675	P	1.5
3	☐	1000.000	1447.581	485237.57	0.0765	P	1.7
4	☐	2500.000	3202.234	568399.39	0.0884	P	5.4
5	☐	5000.000	6632.960	675618.22	0.1118	P	2.0
6	☐	10000.000	12601.290	912858.84	0.1525	P	0.9
7	☐	20000.000	18180.956	1197580.11	0.1906	A	1.4
8	☐			363995.39	0.0638	P	2.6

$$y = 6.8200\text{E-}006 * x + 0.0666$$

$$R = 0.9820$$

$$DL = 468.8$$

$$BEC = 9764$$

Weight: <None>

Min Conc: 0

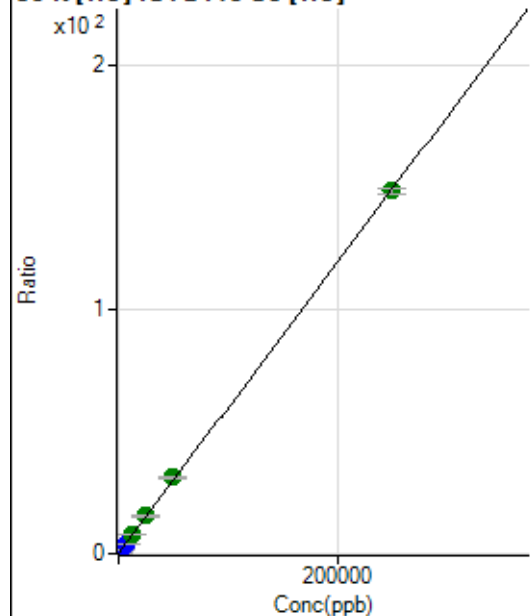
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			212389.78		P	1.2
2	☐			215871.64		P	1.8
3	☐			221963.83		P	0.9
4	☐			223095.20		P	1.3
5	☐			218787.26		P	1.4
6	☐			225076.06		P	1.1
7	☐			232439.83		P	0.3
8	☐			226664.56		P	1.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1444.56		P	5.5
2	☐			1494.56		P	13.2
3	☐			1464.00		P	5.5
4	☐			1397.33		P	2.4
5	☐			1388.99		P	5.4
6	☐			1338.99		P	10.0
7	☐			1455.67		P	2.3
8	☐			1377.88		P	5.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19672.20	0.1105	P	2.4
2	☐	500.000	491.554	75146.02	0.4028	P	0.9
3	☐	2500.000	2536.218	299760.27	1.6184	P	1.0
4	☐	6250.000	6393.220	695864.80	3.9116	P	1.4
5	☐	12500.000	12825.040	1337383.66	7.7356	A	2.5
6	☐	25000.000	26002.131	2687225.89	15.5700	A	3.2
7	☐	50000.000	52169.623	5352759.19	31.1278	A	2.8
8	☐	250000.00	249445.68	25118761.50	148.4177	A	1.3

$$y = 5.9455E-004 * x + 0.1105$$

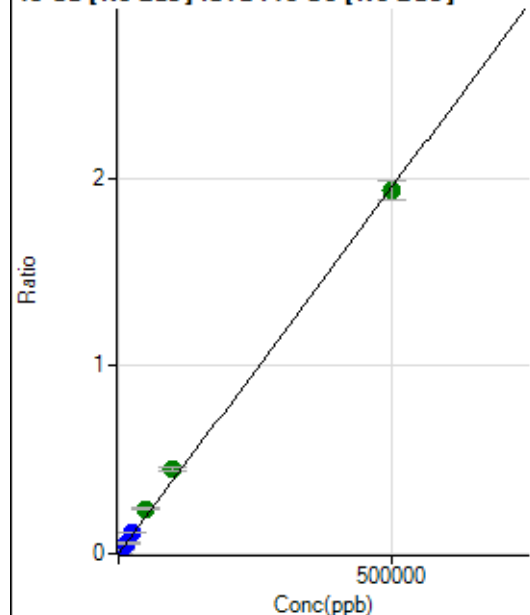
$$R = 1.0000$$

$$DL = 13.45$$

$$BEC = 185.9$$

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	155.40	0.0000	P	3.6
2	☐	500.000	519.132	12909.18	0.0020	P	1.2
3	☐	5000.000	5909.255	146317.08	0.0231	P	2.7
4	☐	12500.000	14428.589	361568.63	0.0563	P	6.3
5	☐	25000.000	29479.152	694449.90	0.1149	P	0.1
6	☐	50000.000	60870.638	1419927.83	0.2373	A	4.3
7	☐	100000.00	115046.76	2817937.82	0.4485	A	3.8
8	☐	500000.00	495622.29	11015068.55	1.9320	A	5.3

$$y = 3.8982E-006 * x + 2.4110E-005$$

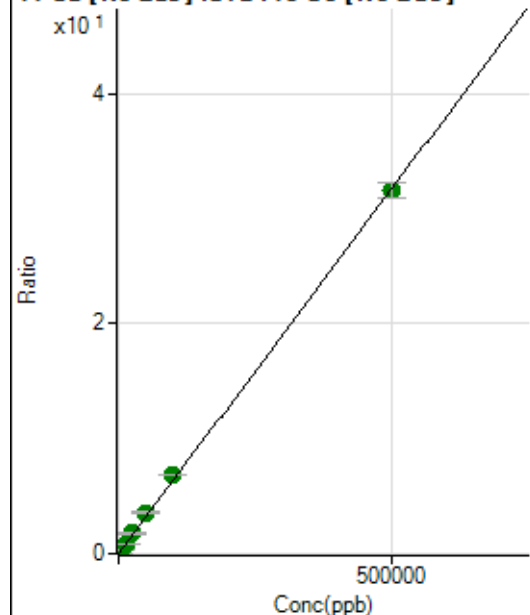
$$R = 0.9994$$

$$DL = 0.6635$$

$$BEC = 6.185$$

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	8702.85	0.0014	P	1.0
2	☐	500.000	522.433	217471.15	0.0345	P	1.3
3	☐	5000.000	5575.889	2253316.12	0.3551	A	2.9
4	☐	12500.000	13595.522	5551701.46	0.8639	A	6.0
5	☐	25000.000	27801.885	10667453.98	1.7652	A	2.4
6	☐	50000.000	55792.902	21189193.89	3.5411	A	4.1
7	☐	100000.00	108575.36	43295003.61	6.8899	A	0.9
8	☐	500000.00	497532.37	179980549.3	31.5673	A	4.4

$$y = 6.3445E-005 * x + 0.0014$$

$$R = 0.9998$$

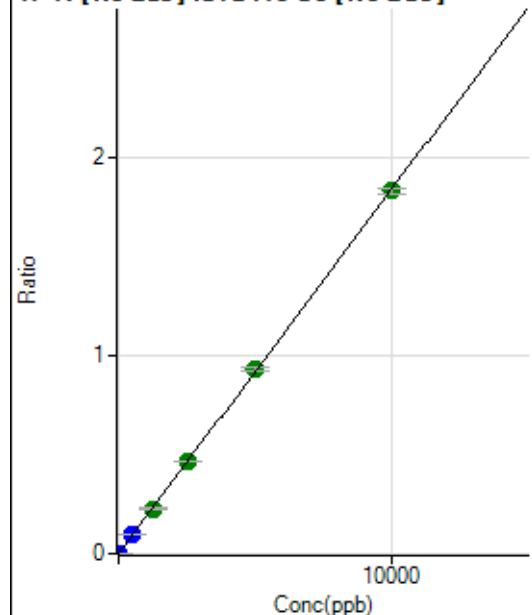
$$DL = 0.6474$$

$$BEC = 21.29$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	263.90	0.0000	P	21.6
2	☐	5.000	5.085	6157.05	0.0010	P	1.3
3	☐	500.000	513.346	599657.84	0.0945	P	2.6
4	☐	1250.000	1235.613	1462256.25	0.2274	A	4.5
5	☐	2500.000	2525.949	2808608.78	0.4649	A	0.6
6	☐	5000.000	5069.312	5582718.01	0.9329	A	2.1
7	☐	10000.000	9959.988	11516965.88	1.8328	A	1.7
8	☐			8424.94	0.0015	P	7.0

$$y = 1.8401\text{E-}004 * x + 4.0890\text{E-}005$$

$$R = 1.0000$$

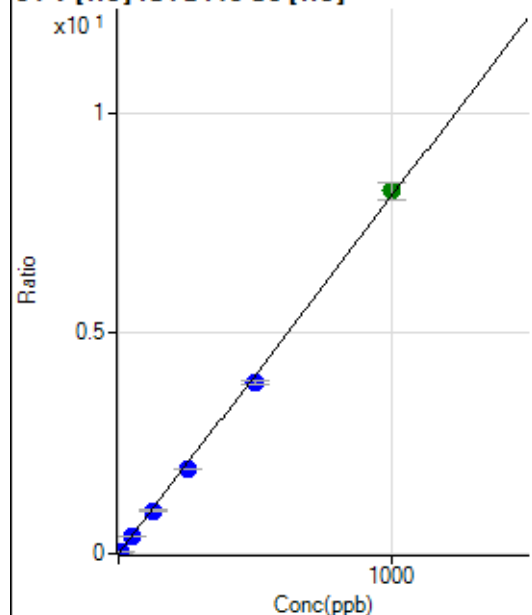
$$DL = 0.1437$$

$$BEC = 0.2222$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.78	0.0000	P	29.4
2	☐	5.000	4.818	7297.48	0.0391	P	1.3
3	☐	50.000	47.437	71249.86	0.3847	P	1.8
4	☐	125.000	120.126	173297.23	0.9740	P	2.3
5	☐	250.000	236.516	331518.20	1.9177	P	1.8
6	☐	500.000	478.050	668864.61	3.8761	P	2.7
7	☐	1000.000	1015.085	1415038.42	8.2305	A	4.5
8	☐			2133.52	0.0126	P	7.6

$$y = 0.0081 * x + 4.4037\text{E-}005$$

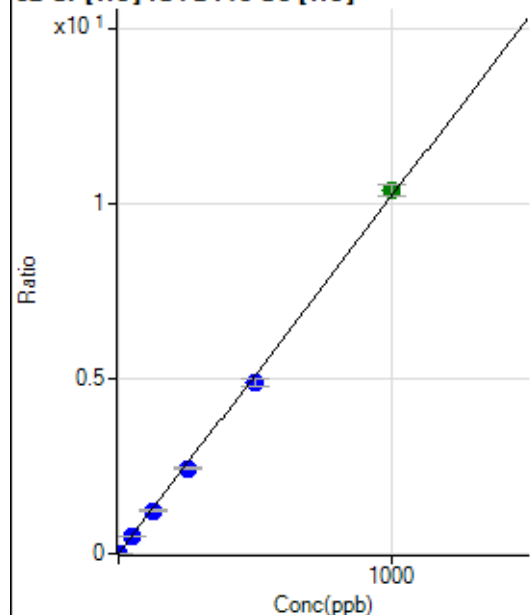
$$R = 0.9995$$

$$DL = 0.004788$$

$$BEC = 0.005431$$

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	541.13	0.0030	P	3.0
2	☐	2.000	1.944	4264.02	0.0229	P	3.4
3	☐	50.000	47.808	90811.84	0.4903	P	1.6
4	☐	125.000	120.508	219087.98	1.2313	P	2.7
5	☐	250.000	238.448	420640.61	2.4333	P	2.0
6	☐	500.000	476.633	838722.64	4.8609	P	4.6
7	☐	1000.000	1015.243	1779801.54	10.3505	A	3.3
8	☐			14566.40	0.0861	P	2.6

$$y = 0.0102 * x + 0.0030$$

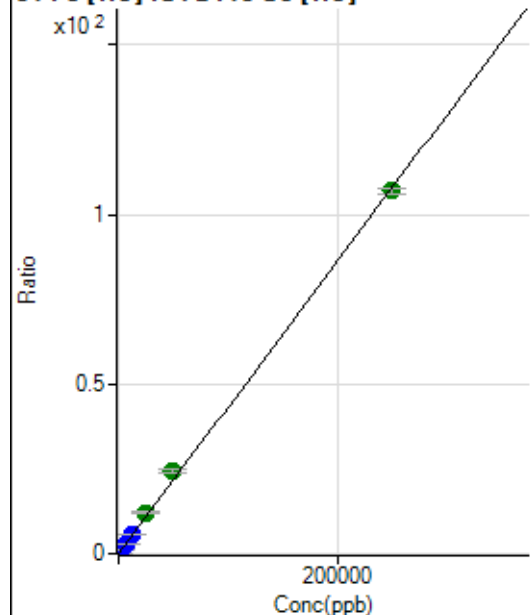
$$R = 0.9995$$

$$DL = 0.02723$$

$$BEC = 0.2979$$

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	648.17	0.0036	P	3.7
2	☐	50.000	54.350	5045.42	0.0270	P	5.8
3	☐	2500.000	2689.640	215153.50	1.1617	P	0.4
4	☐	6250.000	6744.538	517210.05	2.9075	P	2.6
5	☐	12500.000	13417.270	999255.91	5.7804	P	1.4
6	☐	25000.000	28146.931	2092003.52	12.1223	A	4.3
7	☐	50000.000	55976.623	4144068.03	24.1043	A	4.7
8	☐	250000.00	248429.85	18101461.98	106.9649	A	1.5

$$y = 4.3055E-004 * x + 0.0036$$

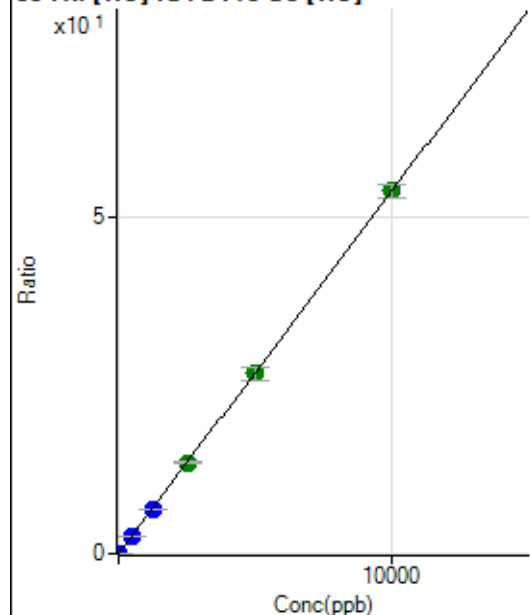
$$R = 0.9996$$

$$DL = 0.9381$$

$$BEC = 8.45$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.11	0.0003	P	53.2
2	☐	1.000	0.985	1044.50	0.0056	P	1.4
3	☐	500.000	484.943	484022.37	2.6133	P	1.8
4	☐	1250.000	1214.673	1164384.52	6.5452	P	3.1
5	☐	2500.000	2506.828	2335009.16	13.5077	A	1.4
6	☐	5000.000	4974.146	4624649.58	26.8021	A	7.2
7	☐	10000.000	10016.389	9279695.90	53.9709	A	3.8
8	☐			9961.34	0.0589	P	5.9

$$y = 0.0054 * x + 2.9161E-004$$

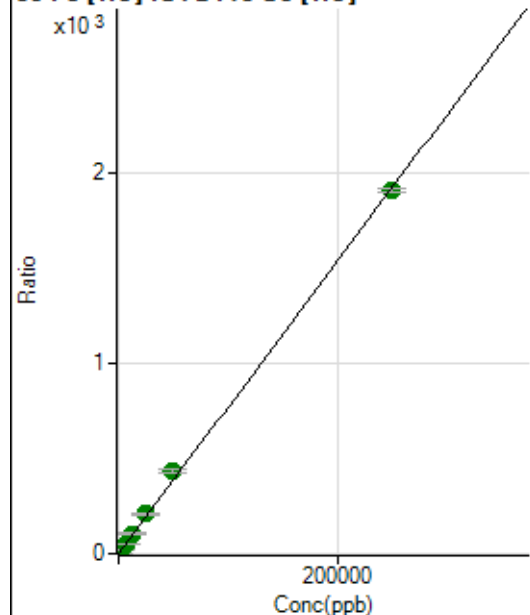
$$R = 1.0000$$

$$DL = 0.08636$$

$$BEC = 0.05412$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3832.08	0.0215	P	4.5
2	☐	50.000	52.450	79128.32	0.4241	P	2.3
3	☐	2500.000	2791.263	3971685.76	21.4433	A	1.9
4	☐	6250.000	6978.805	9533730.19	53.5809	A	2.9
5	☐	12500.000	13787.147	18295600.18	105.8320	A	1.4
6	☐	25000.000	27511.871	36437987.85	211.1634	A	3.9
7	☐	50000.000	56246.795	74223569.25	431.6916	A	3.9
8	☐	250000.00	248413.96	322650999.8	1,906.492	A	1.0

$$y = 0.0077 * x + 0.0215$$

$$R = 0.9996$$

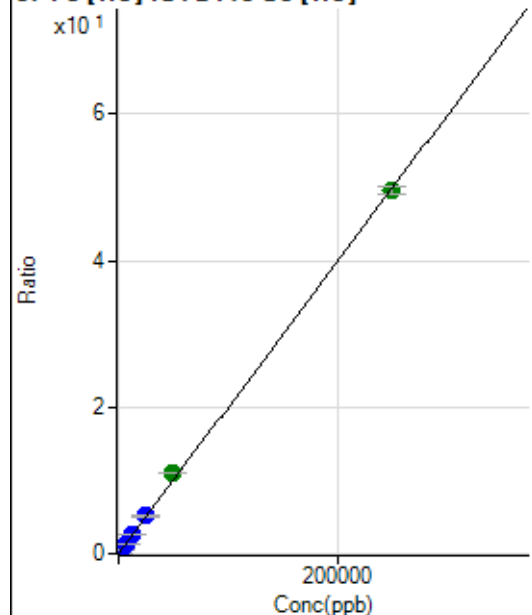
$$DL = 0.3822$$

$$BEC = 2.807$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	222.23	0.0013	P	17.4
2	☐	50.000	52.053	2166.87	0.0116	P	8.4
3	☐	2500.000	2609.373	96399.19	0.5205	P	1.4
4	☐	6250.000	6567.513	232686.70	1.3080	P	2.8
5	☐	12500.000	12864.197	442664.59	2.5609	P	0.5
6	☐	25000.000	25925.767	890335.80	5.1598	P	4.1
7	☐	50000.000	55325.188	1893408.06	11.0096	A	1.6
8	☐	250000.00	248815.14	8378261.12	49.5092	A	2.0

$$y = 1.9897\text{E-}004 * x + 0.0013$$

$$R = 0.9997$$

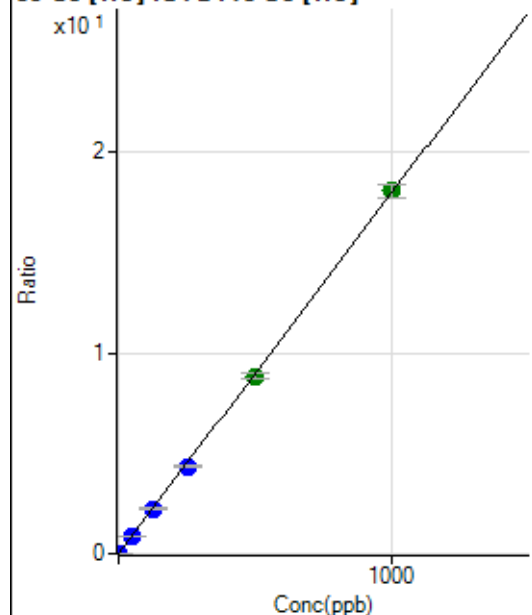
$$DL = 3.289$$

$$BEC = 6.302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0005	P	27.9
2	☐	1.000	0.978	3367.10	0.0180	P	3.8
3	☐	50.000	48.934	163131.62	0.8807	P	2.0
4	☐	125.000	123.793	396242.74	2.2274	P	2.9
5	☐	250.000	242.160	753068.50	4.3567	P	1.5
6	☐	500.000	492.564	1529041.37	8.8613	A	3.3
7	☐	1000.000	1005.882	3111591.69	18.0956	A	4.0
8	☐			3162.61	0.0187	P	9.6

$$y = 0.0180 * x + 4.5294\text{E-}004$$

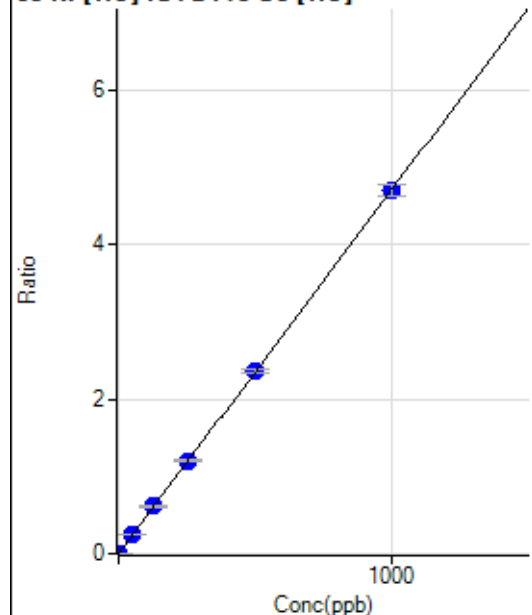
$$R = 0.9999$$

$$DL = 0.02108$$

$$BEC = 0.02518$$

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	38.89	0.0002	P	27.4
2	☐	1.000	1.053	964.49	0.0052	P	9.0
3	☐	50.000	51.688	45052.34	0.2432	P	2.7
4	☐	125.000	129.844	108647.77	0.6107	P	2.3
5	☐	250.000	254.126	206590.29	1.1951	P	2.0
6	☐	500.000	500.911	406438.85	2.3554	P	2.3
7	☐	1000.000	997.823	806734.53	4.6917	P	3.3
8	☐			2404.67	0.0142	P	0.3

$$y = 0.0047 * x + 2.1846E-004$$

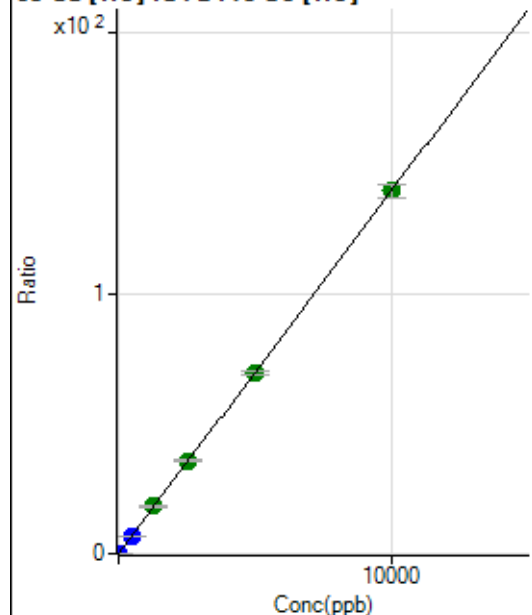
$$R = 1.0000$$

$$DL = 0.03825$$

$$BEC = 0.04646$$

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	1248.96	0.0070	P	7.8
2	☐	2.000	2.004	6523.79	0.0350	P	2.5
3	☐	500.000	492.532	1273221.32	6.8738	P	1.8
4	☐	1250.000	1306.454	3241540.37	18.2213	A	2.0
5	☐	2500.000	2561.336	6173401.64	35.7165	A	1.2
6	☐	5000.000	4965.874	11948109.13	69.2399	A	1.9
7	☐	10000.000	9995.046	23962622.15	139.3552	A	4.0
8	☐			10766.50	0.0636	P	12.4

$$y = 0.0139 * x + 0.0070$$

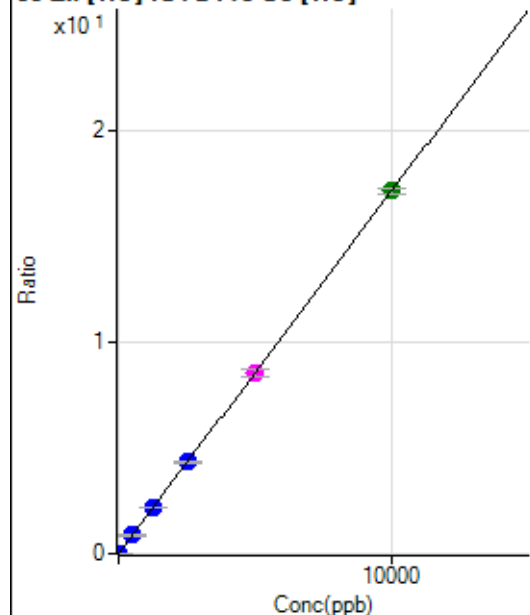
$$R = 1.0000$$

$$DL = 0.1185$$

$$BEC = 0.504$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	146.67	0.0008	P	14.3
2	☐	2.000	2.288	886.70	0.0048	P	8.6
3	☐	500.000	505.129	160670.42	0.8675	P	1.3
4	☐	1250.000	1274.509	389121.08	2.1875	P	2.3
5	☐	2500.000	2522.228	748111.60	4.3281	P	0.3
6	☐	5000.000	4968.578	1470938.77	8.5252	M	3.9
7	☐	10000.000	10006.834	2952759.92	17.1692	A	1.7
8	☐			2683.61	0.0159	P	3.3

$$y = 0.0017 * x + 8.2661E-004$$

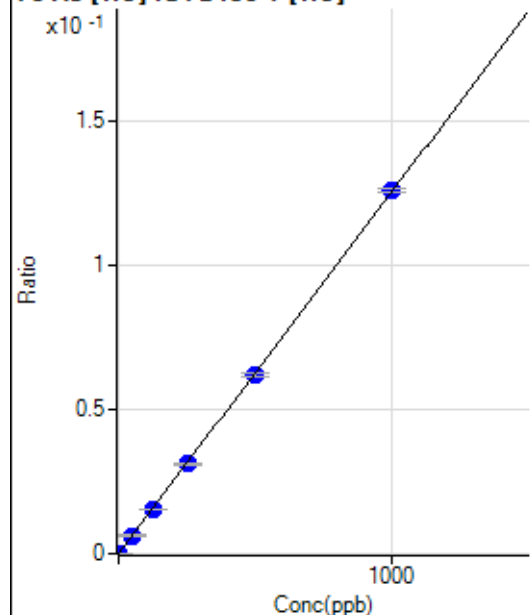
$$R = 1.0000$$

$$DL = 0.2068$$

$$BEC = 0.4818$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.67	0.0000	P	71.7
2	☐	1.000	1.094	205.69	0.0001	P	2.4
3	☐	50.000	50.236	9072.17	0.0063	P	2.5
4	☐	125.000	122.235	21869.76	0.0153	P	1.4
5	☐	250.000	249.829	42127.35	0.0312	P	2.0
6	☐	500.000	493.428	83064.00	0.0617	P	2.4
7	☐	1000.000	1003.662	168686.15	0.1255	P	0.9
8	☐			140.68	0.0001	P	24.3

$$y = 1.2506E-004 * x + 2.6666E-006$$

$$R = 1.0000$$

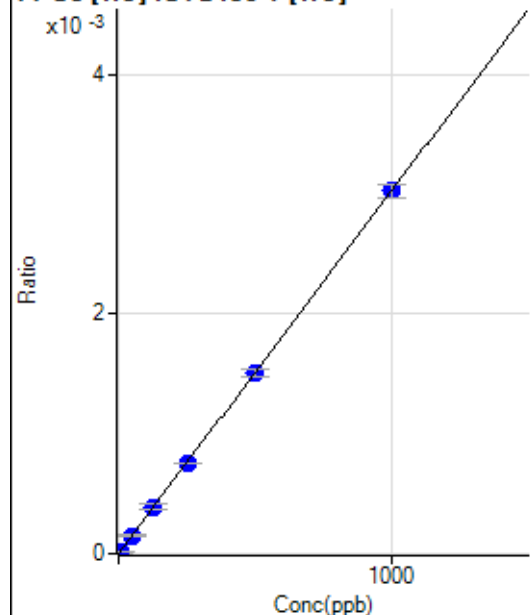
$$DL = 0.04584$$

$$BEC = 0.02132$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.216	20.00	0.0000	P	33.1
3	☐	50.000	49.080	215.56	0.0001	P	7.3
4	☐	125.000	128.098	555.57	0.0004	P	11.7
5	☐	250.000	248.790	1016.71	0.0008	P	1.8
6	☐	500.000	499.484	2036.84	0.0015	P	3.8
7	☐	1000.000	1000.223	4071.74	0.0030	P	4.0
8	☐			7.78	0.0000	P	24.9

$$y = 3.0280\text{E-}006 * x + 7.8620\text{E-}007$$

$$R = 1.0000$$

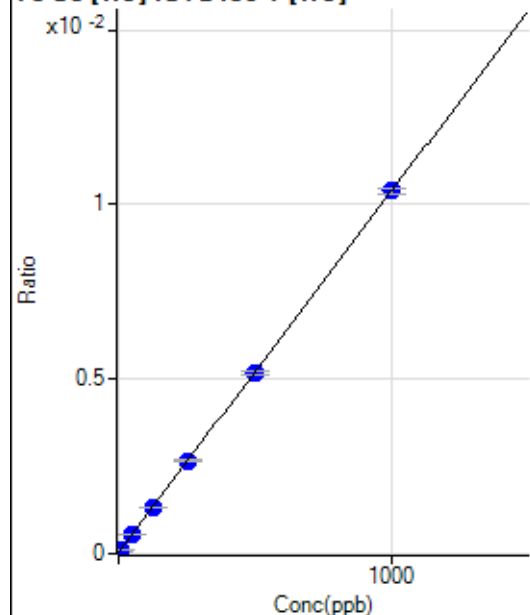
$$DL = 1.349$$

$$BEC = 0.2596$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.68	0.0000	P	12.6
2	☐	5.000	5.191	142.68	0.0001	P	3.2
3	☐	50.000	50.178	811.11	0.0006	P	2.2
4	☐	125.000	122.901	1878.32	0.0013	P	1.8
5	☐	250.000	253.735	3593.83	0.0027	P	1.0
6	☐	500.000	496.823	6969.77	0.0052	P	2.5
7	☐	1000.000	1000.908	13960.98	0.0104	P	1.6
8	☐			78.68	0.0001	P	17.6

$$y = 1.0335\text{E-}005 * x + 4.3115\text{E-}005$$

$$R = 1.0000$$

$$DL = 1.578$$

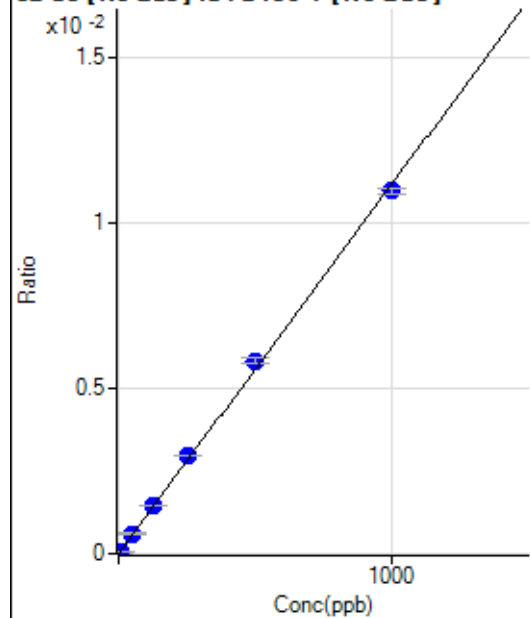
$$BEC = 4.172$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58017.70		P	0.7
2	☐			57544.85		P	2.2
3	☐			56784.85		P	3.9
4	☐			54801.42		P	1.3
5	☐			51605.48		P	2.6
6	☐			49274.17		P	2.7
7	☐			51732.34		P	3.6
8	☐			51089.25		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.08	0.0000	P	420.
2	☐	5.000	5.319	846.20	0.0001	P	10.0
3	☐	50.000	54.336	8233.70	0.0006	P	2.5
4	☐	125.000	129.506	20287.58	0.0014	P	1.1
5	☐	250.000	268.011	38997.06	0.0030	P	0.1
6	☐	500.000	523.304	76247.39	0.0058	P	2.4
7	☐	1000.000	983.064	151395.45	0.0110	P	1.4
8	☐			396.64	0.0000	P	7.6

$$y = 1.1153E-005 * x + 8.7015E-007$$

$$R = 0.9994$$

$$DL = 0.9831$$

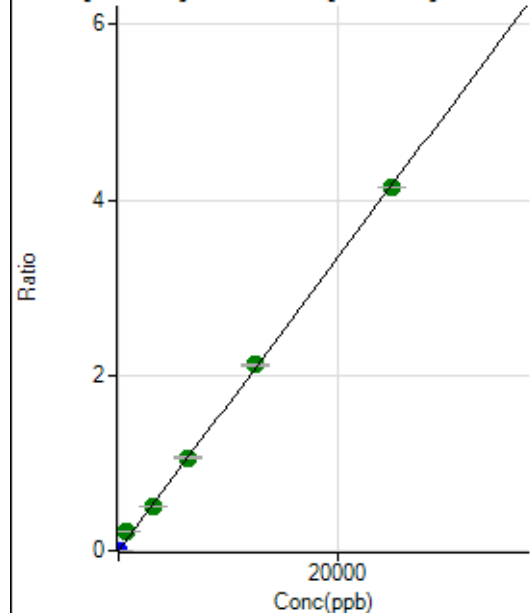
$$BEC = 0.07802$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			340.38		P	6.1
2	☐			340.38		P	2.8
3	☐			352.04		P	6.4
4	☐			339.54		P	5.0
5	☐			350.79		P	3.3
6	☐			322.88		P	5.4
7	☐			325.38		P	3.6
8	☐			364.96		P	3.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	550.02	0.0000	P	5.6
2	☐	1.000	0.951	2775.36	0.0002	P	11.7
3	☐	625.000	1282.298	2898291.36	0.2136	A	1.8
4	☐	3125.000	3061.307	7158346.17	0.5099	A	0.9
5	☐	6250.000	6370.873	13839018.54	1.0611	A	3.5
6	☐	12500.000	12735.352	27709746.46	2.1211	A	1.2
7	☐	25000.000	24843.635	57137354.05	4.1376	A	0.1
8	☐			20220.89	0.0016	P	8.9

$$y = 1.6655E-004 * x + 3.9011E-005$$

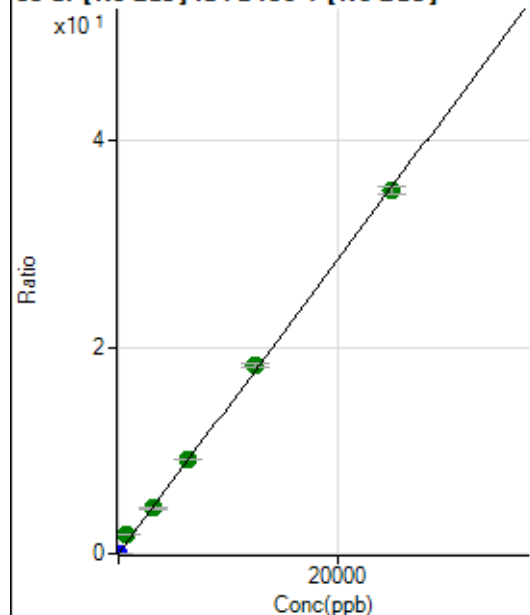
$$R = 0.9996$$

$$DL = 0.03911$$

$$BEC = 0.2342$$

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	163.89	0.0000	P	18.9
2	☐	1.000	1.019	20507.31	0.0015	P	1.6
3	☐	625.000	1306.448	25161347.96	1.8542	A	2.2
4	☐	3125.000	3117.305	62104263.89	4.4244	A	2.5
5	☐	6250.000	6414.720	118751217.9	9.1044	A	1.2
6	☐	12500.000	12868.520	238591744.2	18.2642	A	1.3
7	☐	25000.000	24758.486	485319566.4	35.1395	A	2.1
8	☐			174650.84	0.0139	P	10.3

$$y = 0.0014 * x + 1.1619E-005$$

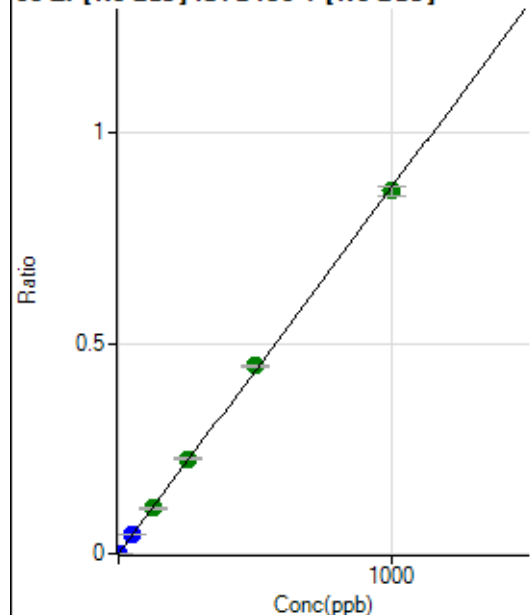
$$R = 0.9995$$

$$DL = 0.004646$$

$$BEC = 0.008186$$

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	513.91	0.0000	P	21.2
2	☐	1.000	0.946	12108.34	0.0009	P	1.7
3	☐	50.000	51.479	609086.95	0.0449	P	2.5
4	☐	125.000	124.872	1527249.42	0.1088	A	2.6
5	☐	250.000	258.582	2938604.10	0.2253	A	1.4
6	☐	500.000	513.357	5842566.36	0.4472	A	1.0
7	☐	1000.000	991.118	11922030.04	0.8634	A	2.6
8	☐			4284.14	0.0003	P	7.6

$$y = 8.7112E-004 * x + 3.6456E-005$$

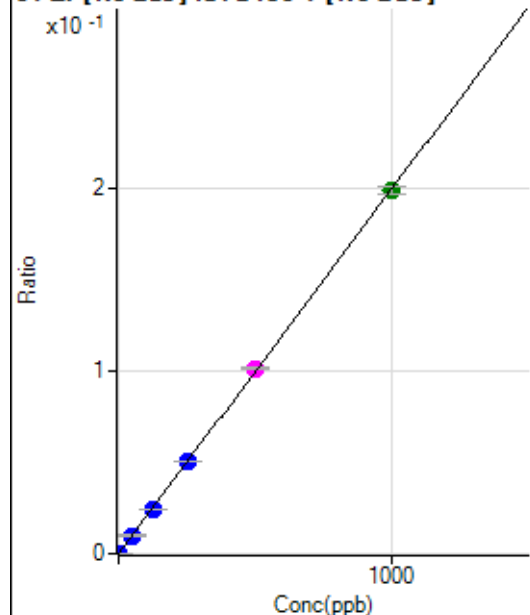
$$R = 0.9998$$

$$DL = 0.02666$$

$$BEC = 0.04185$$

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	102.78	0.0000	P	16.3
2	☐	1.000	0.939	2739.25	0.0002	P	5.0
3	☐	50.000	49.954	135473.63	0.0100	P	1.8
4	☐	125.000	121.795	341517.74	0.0243	P	2.7
5	☐	250.000	252.142	656891.59	0.0504	P	0.3
6	☐	500.000	508.355	1326433.39	0.1015	M	0.8
7	☐	1000.000	995.690	2745716.90	0.1989	A	2.2
8	☐			1011.18	0.0001	P	5.8

$$y = 1.9972\text{E-}004 * x + 7.2843\text{E-}006$$

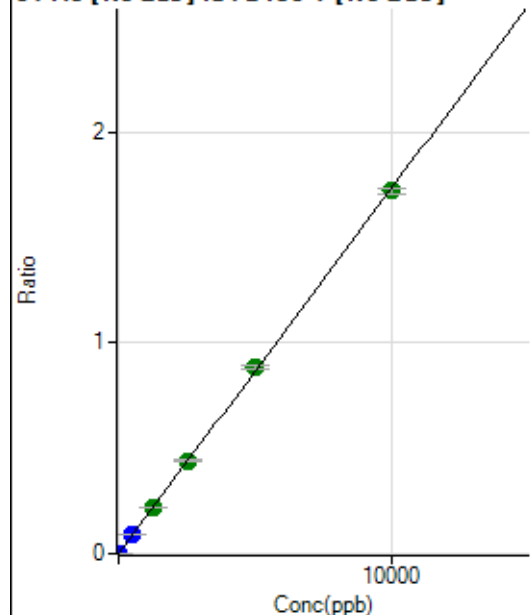
$$R = 0.9999$$

$$DL = 0.01781$$

$$BEC = 0.03647$$

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	158.34	0.0000	P	22.4
2	☐	5.000	6.059	14911.17	0.0011	P	1.4
3	☐	500.000	523.715	1230492.25	0.0907	P	3.0
4	☐	1250.000	1267.977	3081756.84	0.2195	A	2.0
5	☐	2500.000	2550.651	5759865.32	0.4416	A	0.7
6	☐	5000.000	5107.111	11550534.72	0.8842	A	2.0
7	☐	10000.000	9930.348	23738293.76	1.7193	A	1.8
8	☐			10245.80	0.0008	P	12.9

$$y = 1.7314\text{E-}004 * x + 1.1219\text{E-}005$$

$$R = 0.9999$$

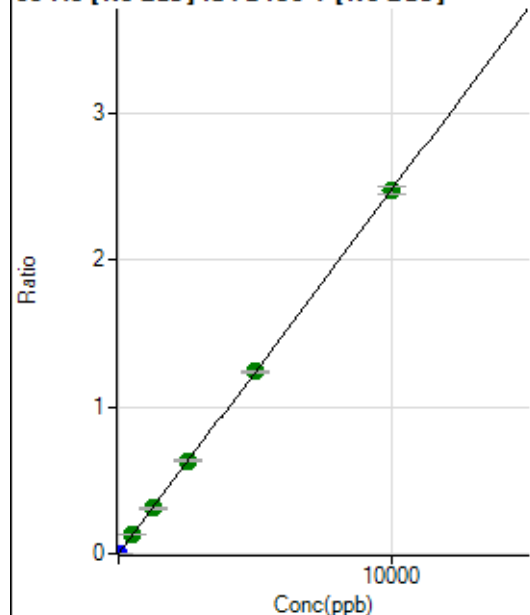
$$DL = 0.04354$$

$$BEC = 0.0648$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	24.5
2	☐	5.000	5.093	17753.52	0.0013	P	3.3
3	☐	500.000	523.101	1755264.38	0.1294	A	1.3
4	☐	1250.000	1255.661	4357805.69	0.3105	A	3.2
5	☐	2500.000	2564.534	8271135.86	0.6341	A	0.7
6	☐	5000.000	5003.182	16161690.81	1.2371	A	1.9
7	☐	10000.000	9980.413	34072810.83	2.4679	A	2.0
8	☐			13979.73	0.0011	P	11.8

$$y = 2.4727E-004 * x + 2.7568E-006$$

$$R = 1.0000$$

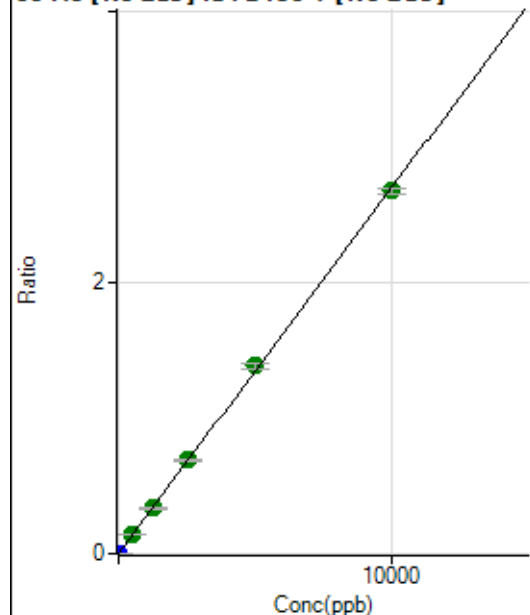
$$DL = 0.008184$$

$$BEC = 0.01115$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.57	0.0000	P	41.2
2	☐	5.000	5.122	19644.95	0.0014	P	1.9
3	☐	500.000	523.090	1915599.65	0.1412	A	1.3
4	☐	1250.000	1245.366	4716842.86	0.3361	A	3.4
5	☐	2500.000	2562.934	9021481.02	0.6917	A	1.2
6	☐	5000.000	5127.511	18075562.56	1.3838	A	2.1
7	☐	10000.000	9919.936	36966360.20	2.6771	A	1.8
8	☐			28766.93	0.0023	P	8.6

$$y = 2.6987E-004 * x + 1.4595E-005$$

$$R = 0.9999$$

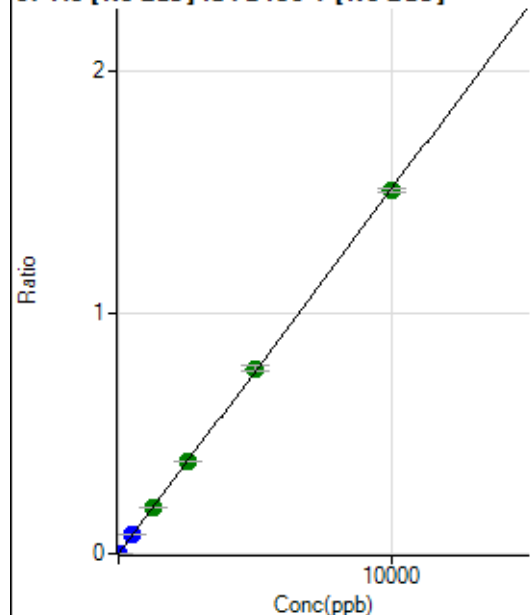
$$DL = 0.06692$$

$$BEC = 0.05408$$

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	13.89	0.0000	P	70.0
2	☐	5.000	5.191	11060.26	0.0008	P	5.0
3	☐	500.000	528.633	1085339.38	0.0800	P	2.2
4	☐	1250.000	1256.653	2668696.65	0.1901	A	2.7
5	☐	2500.000	2529.056	4990570.21	0.3827	A	1.6
6	☐	5000.000	5087.231	10054697.36	0.7697	A	2.2
7	☐	10000.000	9946.857	20780990.57	1.5050	A	1.2
8	☐			8853.09	0.0007	P	10.5

$$y = 1.5131E-004 * x + 9.8794E-007$$

$$R = 0.9999$$

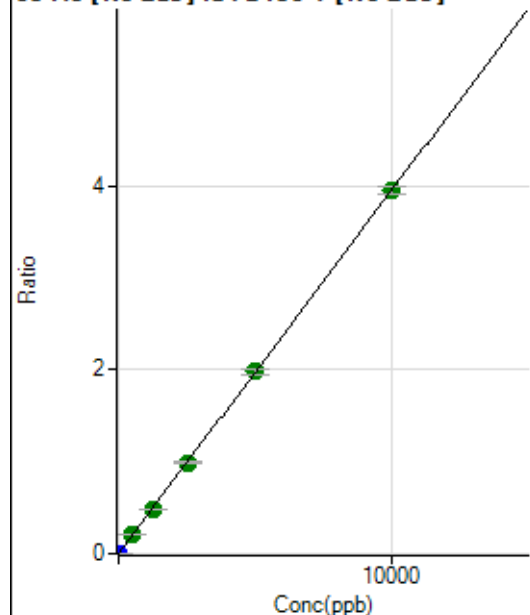
$$DL = 0.01372$$

$$BEC = 0.006529$$

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	47.22	0.0000	P	61.7
2	☐	5.000	5.083	28318.53	0.0020	P	0.8
3	☐	500.000	516.235	2770063.08	0.2042	A	2.0
4	☐	1250.000	1222.887	6788420.20	0.4836	A	3.5
5	☐	2500.000	2511.458	12955281.54	0.9932	A	1.4
6	☐	5000.000	5018.656	25924922.63	1.9848	A	2.7
7	☐	10000.000	9990.385	54548662.33	3.9510	A	2.1
8	☐			21639.86	0.0017	P	10.9

$$y = 3.9548E-004 * x + 3.3489E-006$$

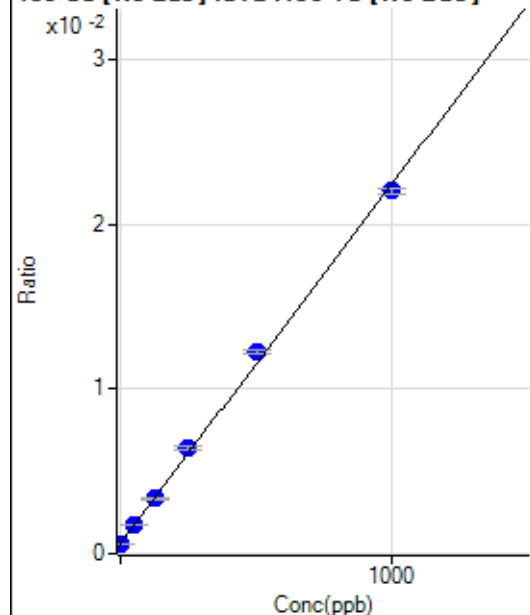
$$R = 1.0000$$

$$DL = 0.01568$$

$$BEC = 0.008468$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5145.56	0.0006	P	5.0
2	☐	1.000	-0.203	5128.87	0.0006	P	6.8
3	☐	50.000	52.497	15233.79	0.0017	P	3.2
4	☐	125.000	126.937	30888.09	0.0034	P	3.3
5	☐	250.000	265.152	54447.29	0.0064	P	3.2
6	☐	500.000	531.352	103015.75	0.0122	P	2.1
7	☐	1000.000	980.170	202622.10	0.0220	P	1.6
8	☐			4584.24	0.0006	P	2.5

$$y = 2.1853\text{E-}005 * x + 5.9924\text{E-}004$$

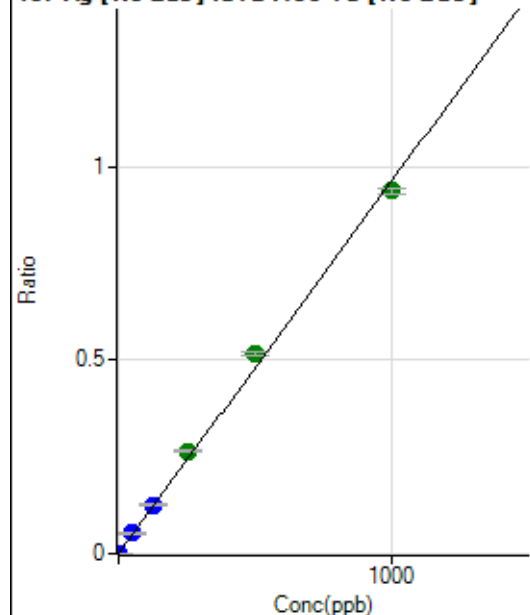
$$R = 0.9991$$

$$DL = 4.118$$

$$BEC = 27.42$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188.90	0.0000	P	24.4
2	☐	1.000	1.113	9428.46	0.0011	P	1.7
3	☐	50.000	54.861	460890.22	0.0528	P	2.9
4	☐	125.000	130.447	1149713.61	0.1256	P	4.9
5	☐	250.000	274.126	2248127.40	0.2639	A	2.0
6	☐	500.000	536.820	4360459.69	0.5169	A	2.1
7	☐	1000.000	974.635	8635012.52	0.9384	A	1.7
8	☐			9681.43	0.0012	P	1.4

$$y = 9.6279\text{E-}004 * x + 2.2000\text{E-}005$$

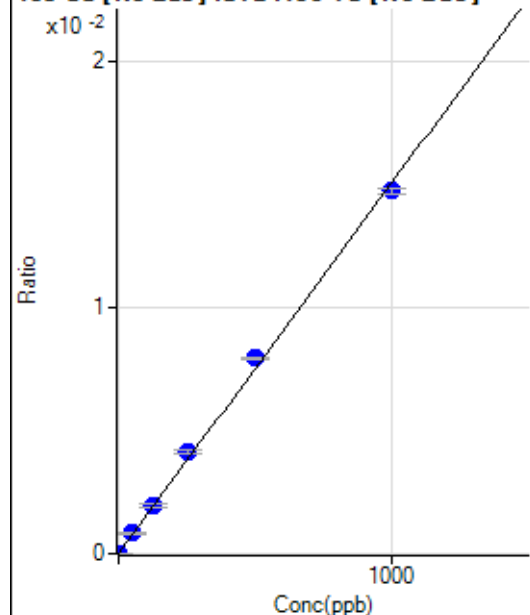
$$R = 0.9986$$

$$DL = 0.01675$$

$$BEC = 0.02285$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.39	0.0000	P	45.3
2	☐	1.000	1.211	183.34	0.0000	P	6.8
3	☐	50.000	55.013	7238.11	0.0008	P	5.4
4	☐	125.000	130.448	17973.02	0.0020	P	5.4
5	☐	250.000	273.073	34983.47	0.0041	P	4.2
6	☐	500.000	527.763	66975.97	0.0079	P	1.0
7	☐	1000.000	979.418	135514.73	0.0147	P	1.8
8	☐			101.39	0.0000	P	32.5

$$y = 1.5033\text{E-}005 * x + 3.0691\text{E-}006$$

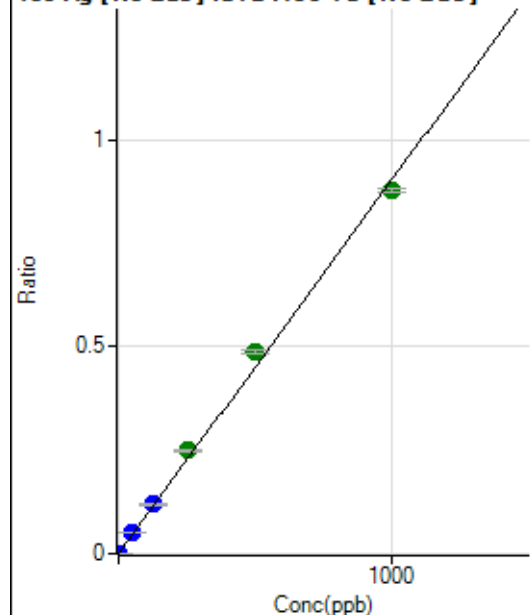
$$R = 0.9991$$

$$DL = 0.2778$$

$$BEC = 0.2042$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	5.3
2	☐	1.000	1.110	8725.23	0.0010	P	2.0
3	☐	50.000	55.703	438247.70	0.0502	P	1.8
4	☐	125.000	131.794	1088005.58	0.1189	P	4.3
5	☐	250.000	276.297	2122013.27	0.2492	A	2.7
6	☐	500.000	540.362	4111225.35	0.4873	A	1.8
7	☐	1000.000	972.110	8067360.51	0.8766	A	1.0
8	☐			9289.53	0.0011	P	4.0

$$y = 9.0176\text{E-}004 * x + 1.0999\text{E-}005$$

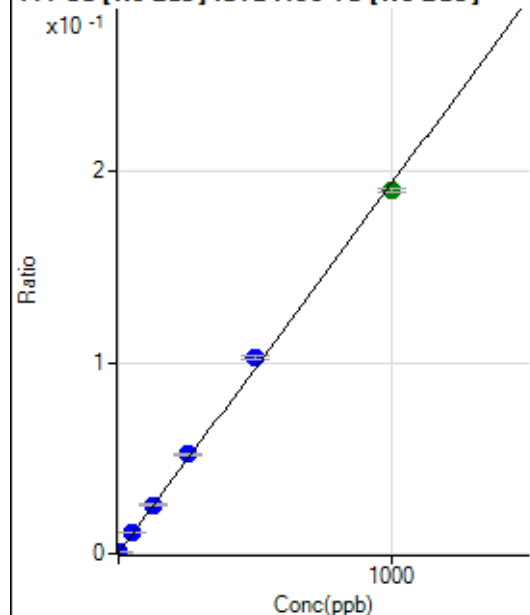
$$R = 0.9984$$

$$DL = 0.001927$$

$$BEC = 0.0122$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3590.37	0.0004	P	5.0
2	☐	1.000	1.030	5318.96	0.0006	P	4.3
3	☐	50.000	54.255	95012.21	0.0109	P	2.0
4	☐	125.000	129.421	232563.11	0.0254	P	4.6
5	☐	250.000	268.027	444341.35	0.0522	P	1.8
6	☐	500.000	528.616	864481.42	0.1025	P	2.3
7	☐	1000.000	980.420	1745703.20	0.1897	A	0.9
8	☐			3875.53	0.0005	P	2.9

$$y = 1.9306\text{E-}004 * x + 4.1813\text{E-}004$$

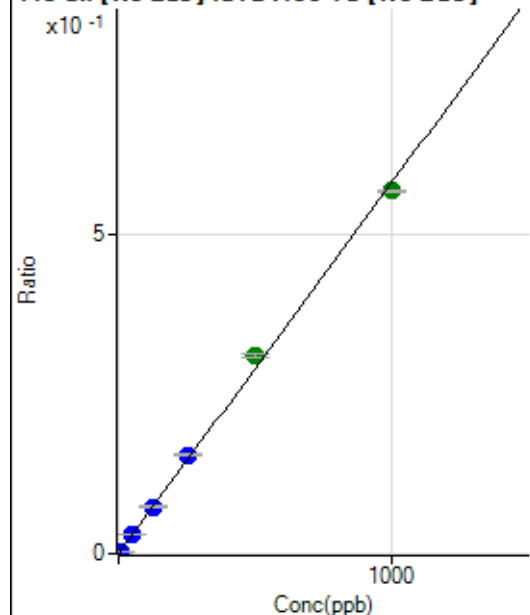
$$R = 0.9992$$

$$DL = 0.3244$$

$$BEC = 2.166$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	761.15	0.0001	P	11.2
2	☐	5.000	5.243	26949.39	0.0031	P	0.9
3	☐	50.000	53.447	270821.00	0.0311	P	2.8
4	☐	125.000	126.555	672041.90	0.0734	P	3.8
5	☐	250.000	265.324	1309999.98	0.1538	P	1.4
6	☐	500.000	533.845	2609592.18	0.3093	A	2.5
7	☐	1000.000	978.879	5219230.98	0.5672	A	0.6
8	☐			7691.22	0.0009	P	7.0

$$y = 5.7930\text{E-}004 * x + 8.8604\text{E-}005$$

$$R = 0.9990$$

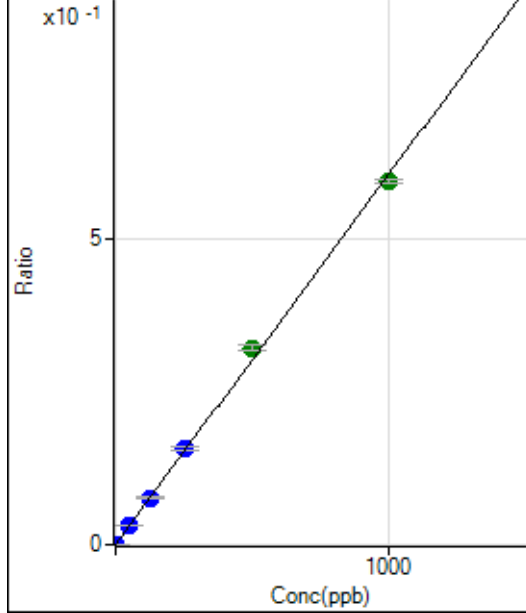
$$DL = 0.05152$$

$$BEC = 0.1529$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	57.0
2	☐	2.000	2.165	11332.83	0.0013	P	1.7
3	☐	50.000	51.806	273833.26	0.0314	P	3.3
4	☐	125.000	125.494	696310.57	0.0761	P	3.7
5	☐	250.000	260.455	1344229.22	0.1578	P	2.8
6	☐	500.000	532.780	2723482.16	0.3229	A	3.0
7	☐	1000.000	980.844	5469814.75	0.5944	A	1.0
8	☐			16568.77	0.0020	P	1.7

$$y = 6.0600\text{E-}004 * x + 2.5844\text{E-}006$$

$$R = 0.9991$$

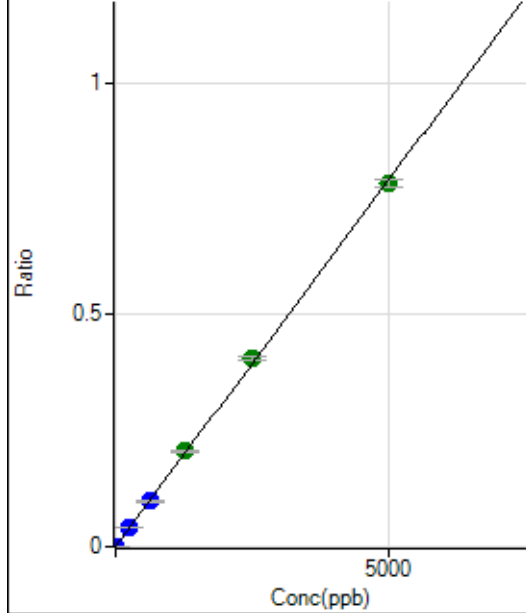
$$DL = 0.00729$$

$$BEC = 0.004265$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	69.7
2	☐	10.000	10.217	13926.99	0.0016	P	3.1
3	☐	250.000	258.379	356056.27	0.0408	P	2.0
4	☐	625.000	620.455	897605.01	0.0980	P	3.0
5	☐	1250.000	1299.354	1747993.58	0.2053	A	3.4
6	☐	2500.000	2575.584	3432277.90	0.4069	A	2.7
7	☐	5000.000	4950.018	7195668.65	0.7820	A	2.2
8	☐			5101.13	0.0006	P	5.9

$$y = 1.5798\text{E-}004 * x + 1.6199\text{E-}006$$

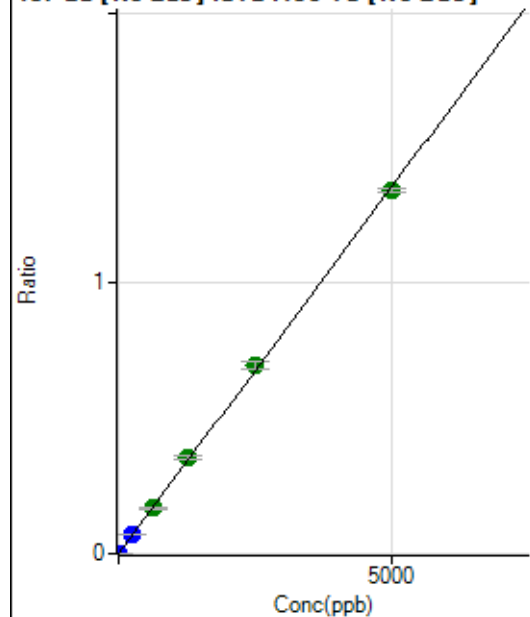
$$R = 0.9998$$

$$DL = 0.02145$$

$$BEC = 0.01025$$

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	44.44	0.0000	P	21.5
2	☐	10.000	10.409	24375.36	0.0028	P	3.7
3	☐	250.000	257.742	609667.52	0.0699	P	1.1
4	☐	625.000	619.436	1537868.04	0.1680	A	3.5
5	☐	1250.000	1310.644	3026410.16	0.3554	A	3.0
6	☐	2500.000	2570.596	5878718.79	0.6970	A	3.8
7	☐	5000.000	4949.849	12350701.67	1.3421	A	1.2
8	☐			8630.75	0.0011	P	5.1

$$y = 2.7114\text{E-}004 * x + 5.1743\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01233$$

$$BEC = 0.01908$$

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	☐			4.44		P	173.
3	☐			37.78		P	62.0
4	☐			84.45		P	35.6
5	☐			204.45		P	10.5
6	☐			424.46		P	8.1
7	☐			675.59		P	7.1
8	☐			48.89		P	34.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			1.11		P	173.
3	☐			3.33		P	0.0
4	☐			6.67		P	100.
5	☐			8.89		P	94.4
6	☐			16.67		P	20.0
7	☐			43.34		P	13.3
8	☐			5.55		P	69.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			2.78		P	173.
3	☐			38.89		P	44.6
4	☐			41.67		P	72.1
5	☐			88.89		P	10.8
6	☐			202.78		P	4.7
7	☐			425.02		P	27.8
8	☐			1183.42		P	7.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			12.22		P	56.8
4	☐			31.11		P	27.0
5	☐			40.00		P	28.9
6	☐			92.22		P	30.3
7	☐			175.56		P	8.6
8	☐			510.01		P	2.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	35.3
2	☐			44.45		P	39.0
3	☐			94.45		P	5.1
4	☐			91.67		P	31.5
5	☐			119.45		P	24.5
6	☐			144.45		P	12.0
7	☐			358.35		P	12.9
8	☐			1266.76		P	10.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			134.45		P	8.7
2	☐			111.11		P	24.4
3	☐			117.78		P	19.9
4	☐			143.34		P	12.3
5	☐			132.22		P	19.1
6	☐			158.89		P	34.9
7	☐			240.01		P	19.7
8	☐			705.58		P	3.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.23		P	13.3
2	☐			41.67		P	34.7
3	☐			83.34		P	26.5
4	☐			63.89		P	39.8
5	☐			86.11		P	29.6
6	☐			72.22		P	48.0
7	☐			61.11		P	15.7
8	☐			108.34		P	26.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	26.4
2	☐			26.67		P	21.7
3	☐			22.22		P	8.7
4	☐			23.33		P	24.7
5	☐			25.56		P	7.5
6	☐			33.33		P	26.4
7	☐			32.22		P	15.8
8	☐			52.22		P	19.5

172 Yb [No Gas] No available calibration points

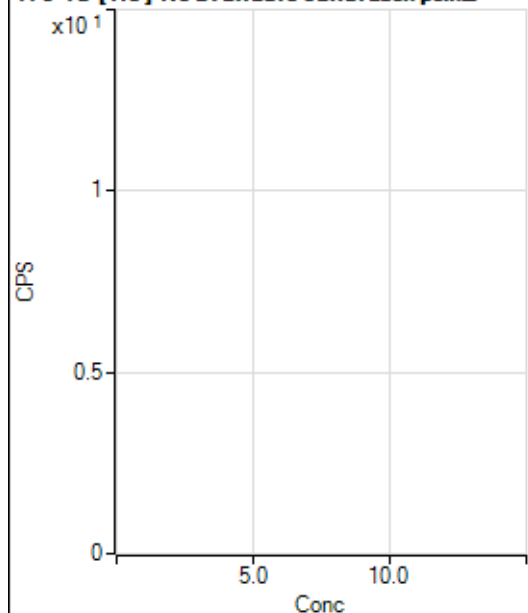
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	43.8
2	☐			50.00		P	88.2
3	☐			44.45		P	57.3
4	☐			77.78		P	44.6
5	☐			72.22		P	29.0
6	☐			86.11		P	43.6
7	☐			130.56		P	41.0
8	☐			527.80		P	7.9

172 Yb [He] No available calibration points

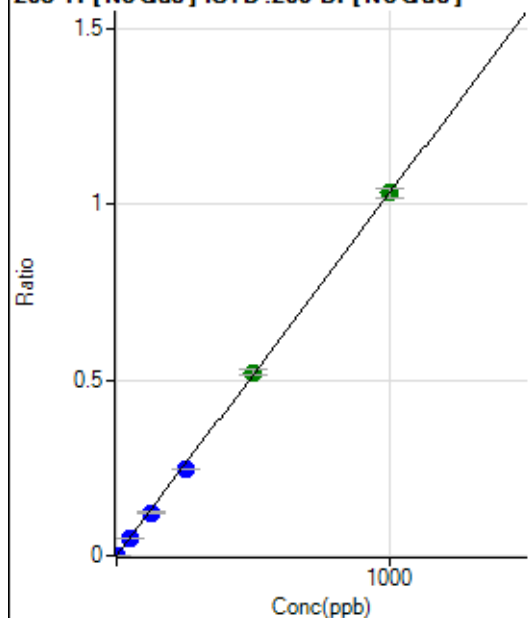
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	58.8
2	☐			20.37		P	15.7
3	☐			24.08		P	26.6
4	☐			40.74		P	20.8
5	☐			35.19		P	32.9
6	☐			46.30		P	27.7
7	☐			87.04		P	7.4
8	☐			216.67		P	10.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1458.45		P	2.5
2	☐			1514.02		P	2.3
3	☐			2347.49		P	3.0
4	☐			4345.28		P	1.4
5	☐			6915.92		P	7.9
6	☐			11980.78		P	2.2
7	☐			22839.80		P	2.0
8	☐			1780.73		P	3.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9025.45		P	1.9
2	☐			9386.82		P	2.8
3	☐			9961.36		P	0.5
4	☐			10387.61		P	1.3
5	☐			11232.76		P	5.6
6	☐			13985.44		P	2.0
7	☐			18787.71		P	1.3
8	☐			9112.56		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	138.89	0.0000	P	3.8
2	☐	1.000	0.997	5362.38	0.0011	P	2.0
3	☐	50.000	47.835	246809.54	0.0494	P	4.1
4	☐	125.000	117.378	626492.96	0.1211	P	4.9
5	☐	250.000	239.287	1234710.89	0.2469	P	0.6
6	☐	500.000	505.497	2586959.20	0.5215	A	3.6
7	☐	1000.000	1000.991	5302409.71	1.0327	A	2.4
8	☐			1922.42	0.0005	P	3.7

$$y = 0.0010 * x + 2.7213E-005$$

$$R = 0.9999$$

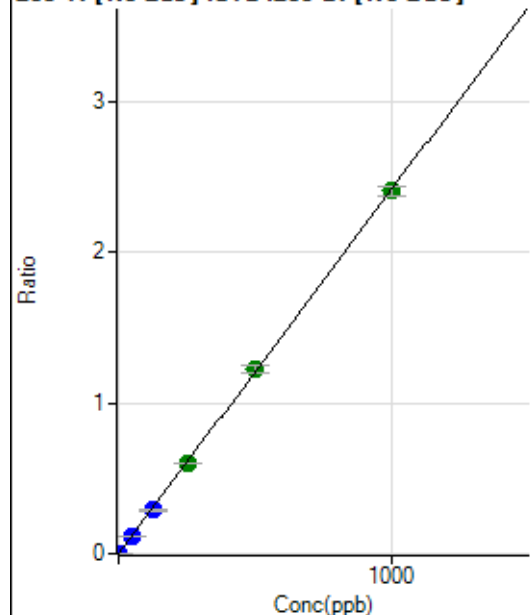
$$DL = 0.002984$$

$$BEC = 0.02638$$

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	308.35	0.0001	P	5.4
2	☐	1.000	0.956	12047.57	0.0024	P	1.8
3	☐	50.000	48.004	580291.48	0.1161	P	2.8
4	☐	125.000	119.526	1493922.97	0.2889	P	4.8
5	☐	250.000	248.956	3008813.07	0.6016	A	1.0
6	☐	500.000	509.149	6102022.10	1.2304	A	4.2
7	☐	1000.000	996.470	12361934.48	2.4079	A	2.9
8	☐			4525.93	0.0011	P	9.5

$$y = 0.0024 * x + 6.0408E-005$$

$$R = 0.9999$$

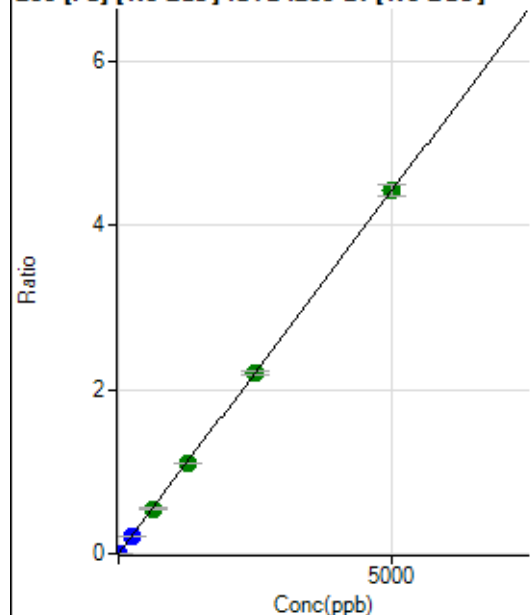
$$DL = 0.004032$$

$$BEC = 0.025$$

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	566.69	0.0001	P	1.1
2	☐	1.000	0.905	4623.13	0.0009	P	2.5
3	☐	250.000	237.075	1047630.51	0.2095	P	2.5
4	☐	625.000	615.908	2813598.56	0.5441	A	4.5
5	☐	1250.000	1249.767	5521147.17	1.1040	A	0.3
6	☐	2500.000	2498.477	10949401.98	2.2069	A	2.6
7	☐	5000.000	5002.603	22687846.57	4.4186	A	3.3
8	☐			6703.75	0.0016	P	12.1

$$y = 8.8325E-004 * x + 1.1102E-004$$

$$R = 1.0000$$

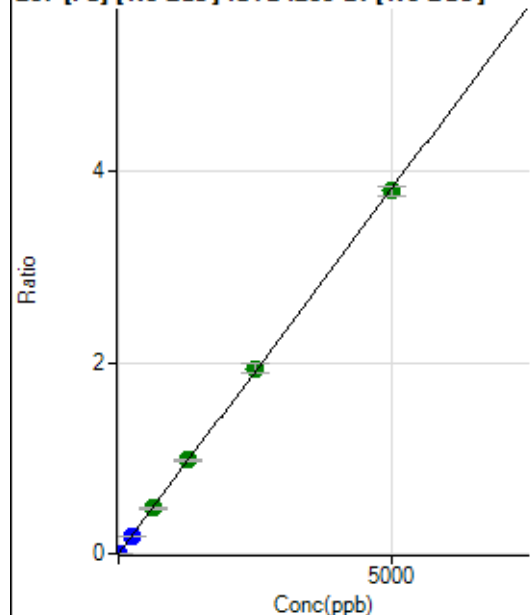
$$DL = 0.004219$$

$$BEC = 0.1257$$

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	405.57	0.0001	P	18.5
2	☐	1.000	0.930	4008.09	0.0008	P	1.0
3	☐	250.000	244.093	931382.79	0.1863	P	3.7
4	☐	625.000	627.824	2478434.52	0.4791	A	3.7
5	☐	1250.000	1281.337	4889339.69	0.9776	A	0.5
6	☐	2500.000	2537.624	9601439.91	1.9361	A	4.7
7	☐	5000.000	4973.296	19479945.11	3.7943	A	2.9
8	☐			6125.65	0.0014	P	10.3

$$y = 7.6292\text{E-}004 * x + 7.9514\text{E-}005$$

$$R = 0.9999$$

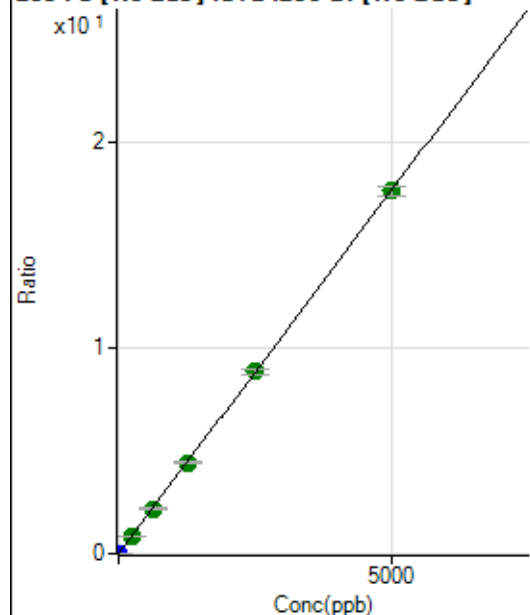
$$DL = 0.05778$$

$$BEC = 0.1042$$

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	2085.29	0.0004	P	5.1
2	☐	1.000	0.914	18459.18	0.0036	P	0.1
3	☐	250.000	246.878	4355194.49	0.8710	A	2.8
4	☐	625.000	614.546	11213333.27	2.1676	A	3.4
5	☐	1250.000	1255.412	22143248.59	4.4276	A	0.5
6	☐	2500.000	2513.199	43968108.62	8.8631	A	3.2
7	☐	5000.000	4993.510	90410610.82	17.6098	A	2.6
8	☐			27115.40	0.0064	P	11.0

$$y = 0.0035 * x + 4.0860\text{E-}004$$

$$R = 1.0000$$

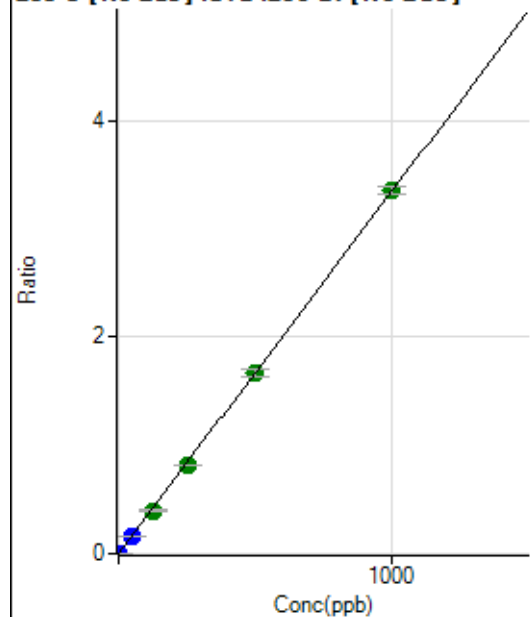
$$DL = 0.01772$$

$$BEC = 0.1159$$

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	19.44	0.0000	P	49.2
2	☐	1.000	0.898	15265.27	0.0030	P	1.6
3	☐	50.000	47.178	788712.68	0.1577	P	3.0
4	☐	125.000	118.897	2056608.21	0.3975	A	3.1
5	☐	250.000	246.508	4121825.05	0.8242	A	0.4
6	☐	500.000	498.593	8266990.46	1.6670	A	4.5
7	☐	1000.000	1002.480	17208676.60	3.3517	A	2.1
8	☐			2539.25	0.0006	P	24.0

$$y = 0.0033 * x + 3.8014E-006$$

$$R = 1.0000$$

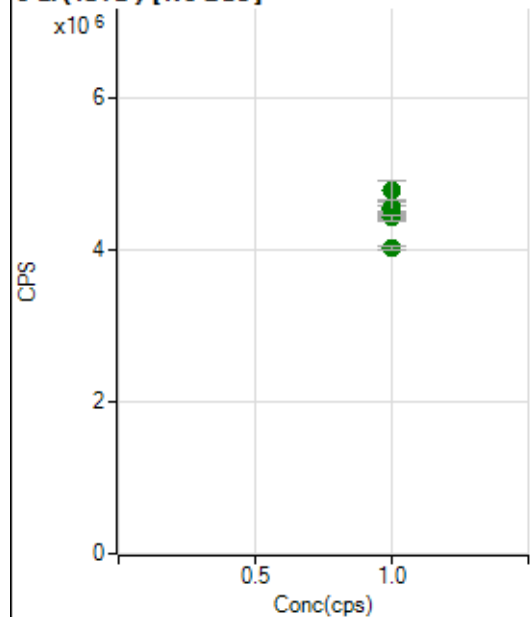
$$DL = 0.001677$$

$$BEC = 0.001137$$

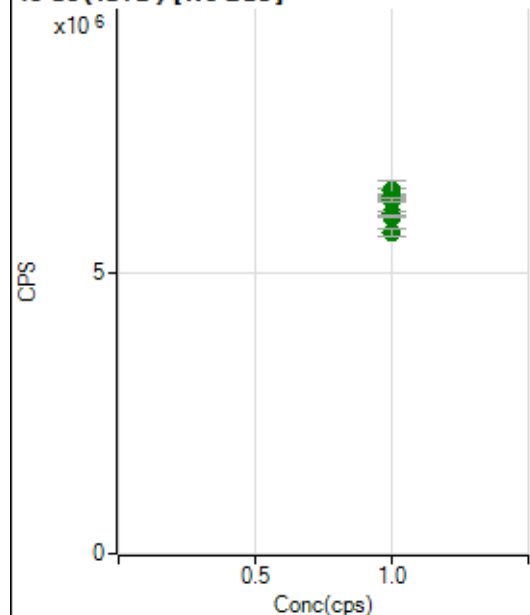
Weight: <None>

Min Conc: 0

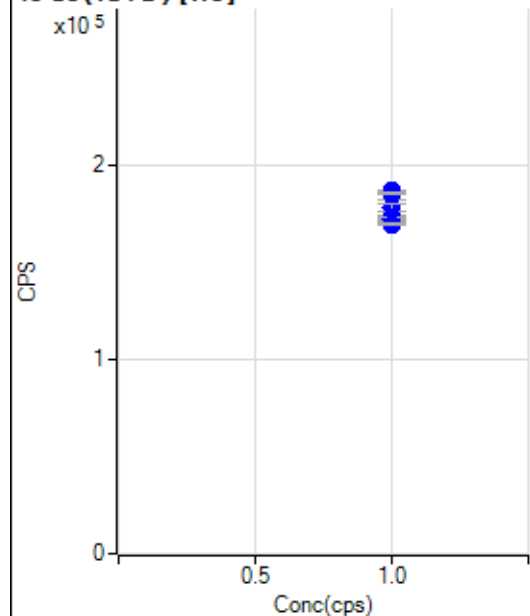
6 Li (ISTD) [No Gas]



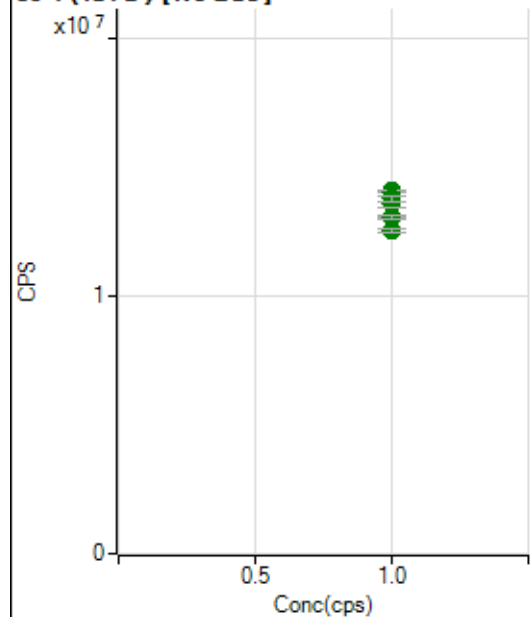
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4555771.53		A	1.8
2	☐	1.000		4446860.09		A	0.9
3	☐	1.000		4539822.27		A	5.7
4	☐	1.000		4783471.19		A	5.8
5	☐	1.000		4555336.79		A	4.3
6	☐	1.000		4445705.49		A	2.3
7	☐	1.000		4428542.43		A	1.3
8	☐	1.000		4029142.87		A	0.9

45 Sc (ISTD) [No Gas]

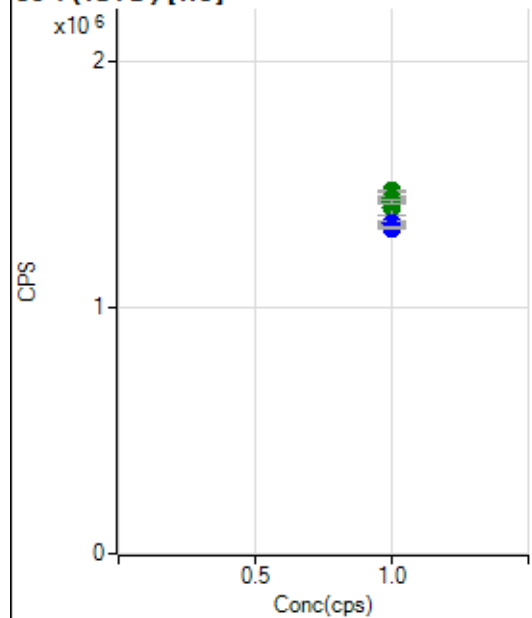
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6444248.03		A	1.7
2	☐	1.000		6304911.51		A	1.8
3	☐	1.000		6347146.57		A	1.7
4	☐	1.000		6441328.73		A	5.9
5	☐	1.000		6041863.45		A	1.3
6	☐	1.000		5984742.27		A	0.8
7	☐	1.000		6284009.01		A	0.6
8	☐	1.000		5704768.39		A	2.9

45 Sc (ISTD) [He]

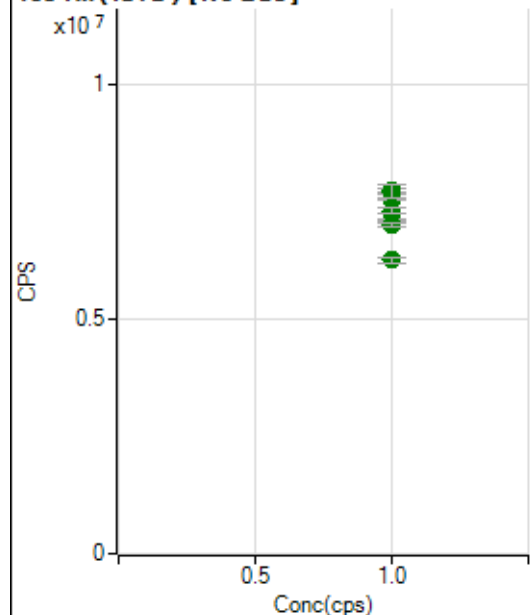
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		178158.56		P	4.7
2	☐	1.000		186582.92		P	0.4
3	☐	1.000		185215.68		P	0.8
4	☐	1.000		177927.08		P	2.0
5	☐	1.000		172852.53		P	1.4
6	☐	1.000		172590.05		P	1.3
7	☐	1.000		172007.47		P	1.6
8	☐	1.000		169237.15		P	0.7

89 Y (ISTD) [No Gas]

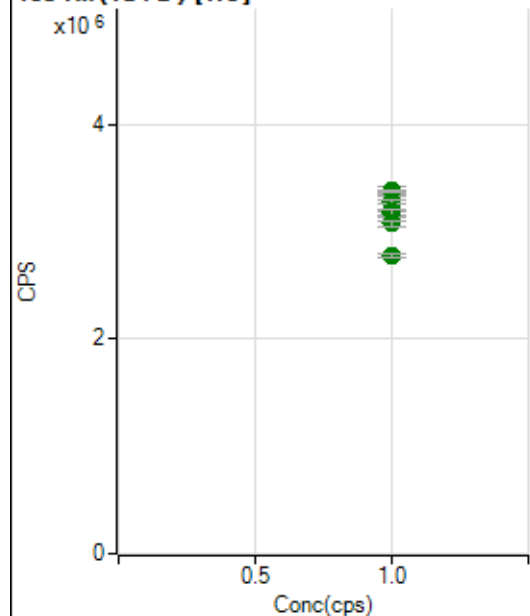
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14099988.54		A	0.7
2	☐	1.000		14064868.68		A	0.6
3	☐	1.000		13569988.69		A	1.5
4	☐	1.000		14039200.21		A	1.7
5	☐	1.000		13042664.67		A	0.8
6	☐	1.000		13064829.81		A	1.3
7	☐	1.000		13809123.13		A	1.4
8	☐	1.000		12570514.81		A	1.5

89 Y (ISTD) [He]

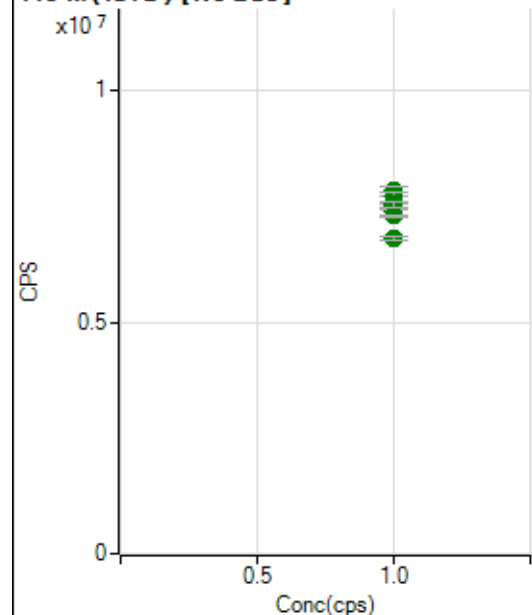
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1407763.15		A	4.9
2	☐	1.000		1474709.11		A	0.7
3	☐	1.000		1443854.15		A	1.8
4	☐	1.000		1430345.24		A	1.0
5	☐	1.000		1348244.01		P	0.2
6	☐	1.000		1346088.74		P	0.1
7	☐	1.000		1343949.85		P	1.2
8	☐	1.000		1323300.05		P	0.9

103 Rh (ISTD) [No Gas]

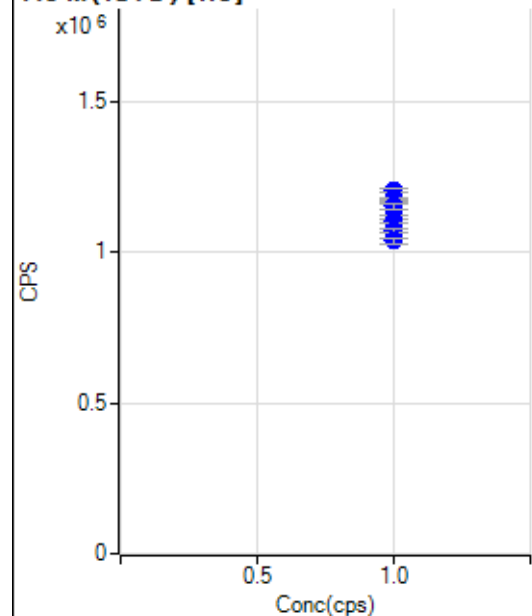
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7734790.88		A	0.9
2	☐	1.000		7672444.10		A	0.3
3	☐	1.000		7532328.64		A	0.2
4	☐	1.000		7719215.54		A	3.6
5	☐	1.000		7108080.97		A	0.6
6	☐	1.000		7025274.98		A	1.1
7	☐	1.000		7302099.30		A	1.6
8	☐	1.000		6260081.65		A	1.8

103 Rh (ISTD) [He]

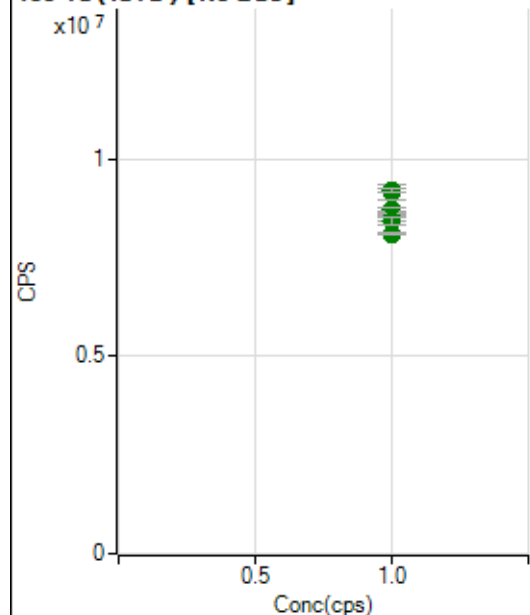
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3257108.70		A	4.7
2	☐	1.000		3374354.15		A	2.1
3	☐	1.000		3376973.66		A	0.5
4	☐	1.000		3279868.11		A	1.3
5	☐	1.000		3177552.52		A	2.0
6	☐	1.000		3166689.16		A	2.2
7	☐	1.000		3072168.18		A	1.7
8	☐	1.000		2779258.76		A	1.1

115 In (ISTD) [No Gas]

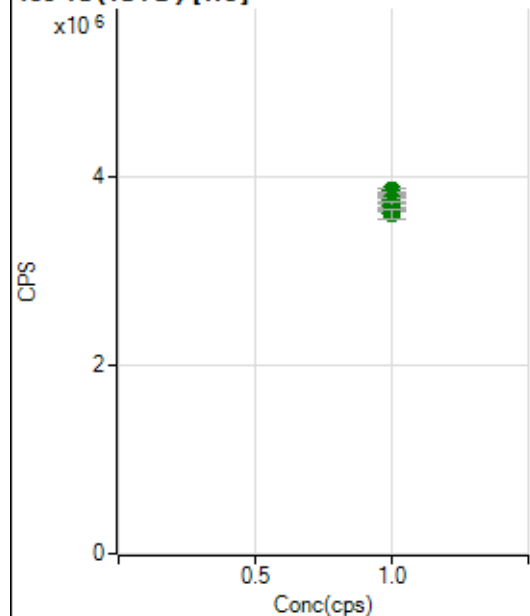
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7708149.73		A	3.0
2	☐	1.000		7531601.55		A	1.3
3	☐	1.000		7838663.92		A	2.7
4	☐	1.000		7719125.59		A	2.7
5	☐	1.000		7392693.06		A	1.6
6	☐	1.000		7293195.32		A	0.7
7	☐	1.000		7548744.48		A	1.7
8	☐	1.000		6814617.63		A	1.4

115 In (ISTD) [He]

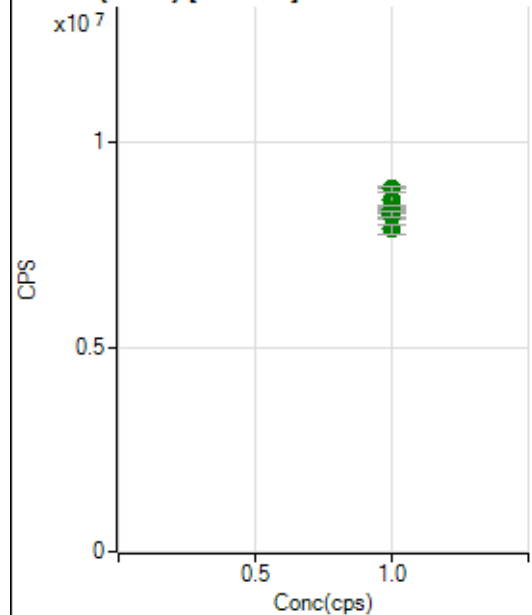
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1145945.13		P	4.1
2	☐	1.000		1204987.69		P	1.2
3	☐	1.000		1179181.53		P	0.8
4	☐	1.000		1154507.21		P	1.5
5	☐	1.000		1105246.13		P	0.6
6	☐	1.000		1096819.67		P	0.2
7	☐	1.000		1074072.87		P	1.1
8	☐	1.000		1038411.16		P	1.7

159 Tb (ISTD) [No Gas]

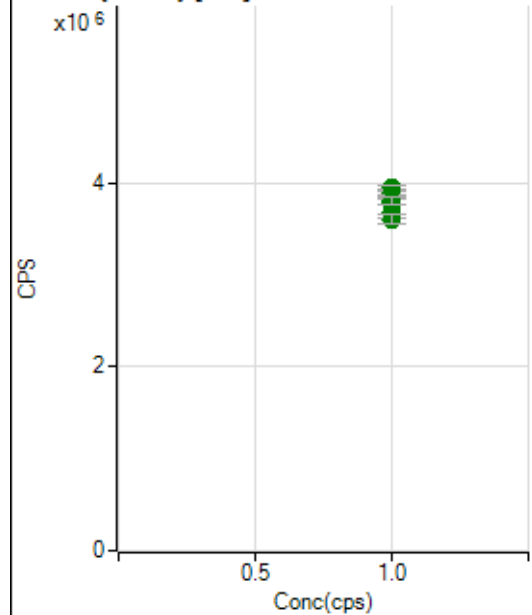
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8587681.33		A	0.5
2	☐	1.000		8620277.37		A	0.7
3	☐	1.000		8724236.82		A	1.4
4	☐	1.000		9165176.25		A	4.3
5	☐	1.000		8519666.47		A	2.1
6	☐	1.000		8438698.91		A	2.1
7	☐	1.000		9202843.41		A	1.0
8	☐	1.000		8116636.06		A	0.7

159 Tb (ISTD) [He]

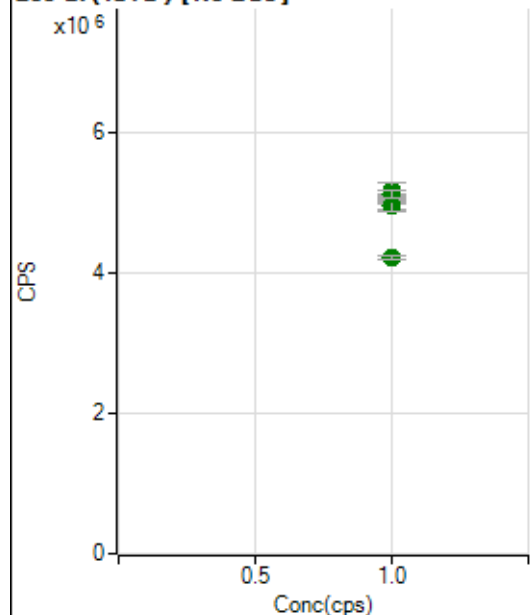
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3711356.19		A	3.7
2	☐	1.000		3851778.90		A	1.3
3	☐	1.000		3838135.11		A	1.8
4	☐	1.000		3825896.37		A	0.5
5	☐	1.000		3692097.93		A	1.4
6	☐	1.000		3754970.29		A	0.8
7	☐	1.000		3692207.41		A	2.5
8	☐	1.000		3607339.49		A	2.5

165 Ho (ISTD) [No Gas]

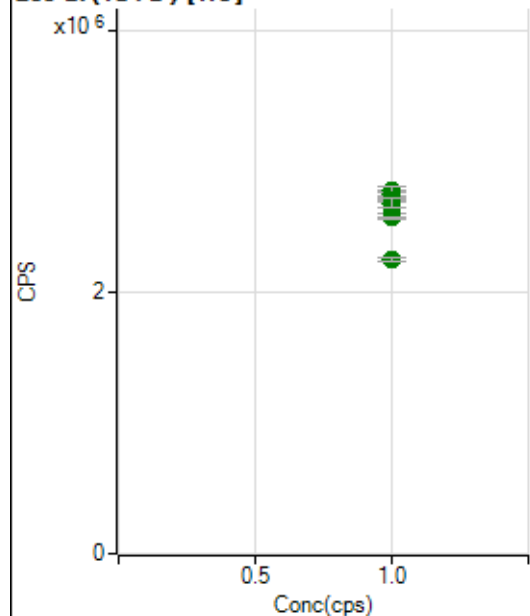
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8333965.38		A	1.7
2	☐	1.000		8205403.13		A	1.7
3	☐	1.000		8251563.29		A	2.9
4	☐	1.000		8606265.12		A	6.3
5	☐	1.000		8375537.08		A	1.8
6	☐	1.000		8236188.64		A	1.5
7	☐	1.000		8865704.80		A	1.7
8	☐	1.000		7885357.38		A	3.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3691538.73		A	3.8
2	☐	1.000		3898389.87		A	1.8
3	☐	1.000		3883852.79		A	1.6
4	☐	1.000		3946243.69		A	1.4
5	☐	1.000		3861988.56		A	0.9
6	☐	1.000		3791346.96		A	1.7
7	☐	1.000		3807097.06		A	1.8
8	☐	1.000		3607505.15		A	2.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5104472.39		A	0.6
2	☐	1.000		5080308.78		A	0.9
3	☐	1.000		5003478.88		A	3.7
4	☐	1.000		5178767.98		A	5.0
5	☐	1.000		5001172.67		A	0.4
6	☐	1.000		4964207.22		A	3.3
7	☐	1.000		5136089.12		A	2.5
8	☐	1.000		4229590.49		A	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2648065.01		A	3.3
2	☐	1.000		2749820.58		A	2.3
3	☐	1.000		2768286.94		A	0.3
4	☐	1.000		2773076.87		A	2.7
5	☐	1.000		2711676.24		A	0.4
6	☐	1.000		2681773.71		A	2.5
7	☐	1.000		2567766.99		A	0.9
8	☐	1.000		2243424.29		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8011923 MS.b

Acq. Date-Time 2023-01-19 11:48:35

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		13286	132862.41			0.345	5.000
24		98583	985832.51			1.969	5.000
25		12946	129463.55			0.694	5.000
26		14970	149704.53			1.170	5.000
59		71413	714133.00			0.522	5.000
113		6864	68637.08			0.400	5.000
115		90277	902772.99			1.089	5.000
206		16576	165764.17			1.055	5.000
207		14828	148278.81			0.537	5.000
208		35569	355688.17			0.719	5.000
220		1	5.30			23.679	

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

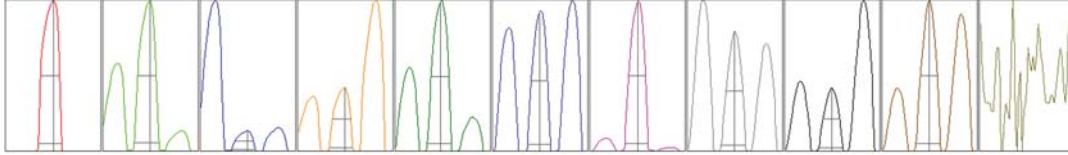
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13285	13305	13223	13348	13269
24	100182	99786	99708	97644	95596
25	13097	12961	12879	12890	12904
26	15091	15021	15116	14943	14681
59	71758	71592	71678	70908	71131
113	6897	6872	6826	6847	6876
115	90591	90599	91500	88876	89820
206	16352	16719	16452	16593	16766
207	14793	14843	14733	14950	14820
208	35950	35521	35484	35250	35639

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	23395.65	9.05	8.90 - 9.10	
24	177595.88	24.00	23.90 - 24.10	
25	23578.75	25.00	24.90 - 25.10	
26	27167.77	26.00	25.90 - 26.10	
59	133158.45	58.95	58.90 - 59.10	
113	13948.92	113.00	112.90 - 113.10	
115	179256.34	115.05	114.90 - 115.10	
206	33004.59	206.00	205.90 - 206.10	
207	29594.92	207.00	206.90 - 207.10	
208	70660.29	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.738	0.900	
24	0.59	0.783	0.900	
25	0.58	0.742	0.900	
26	0.59	0.743	0.900	
59	0.56	0.771	0.900	
113	0.51	0.721	0.900	
115	0.52	0.731	0.900	
206	0.52	0.771	0.900	
207	0.53	0.772	0.900	
208	0.53	0.776	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	15.0 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-65 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	150 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14901	149012.12			0.995	
89		16599	165985.28			0.386	
205		11729	117290.26			1.218	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14899	15114	14898	14694	14901
89	16542	16679	16527	16609	16636
205	11537	11832	11902	11665	11708

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-65 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	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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