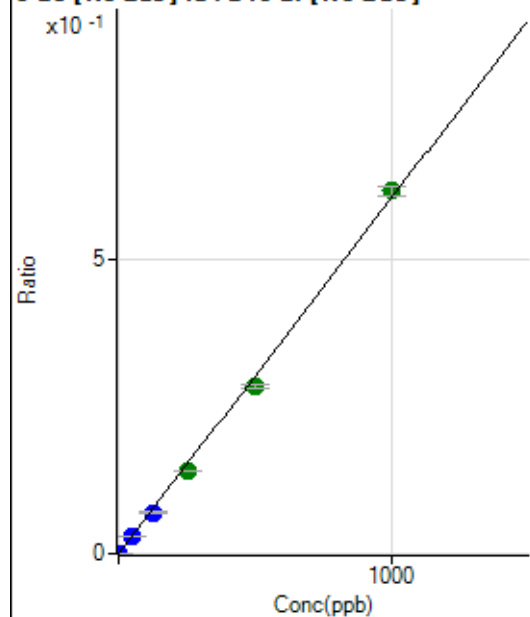


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8041122 MS.b\
Analysis File: P8041122 MS.batch.bin
DA Date-Time: 2022-04-12 11:47:42
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-04-11 14:35:31
2	005CALS.d	S02	2022-04-11 14:38:35
3	006CALS.d	S03	2022-04-11 14:41:40
4	007CALS.d	S04	2022-04-11 14:44:44
5	008CALS.d	S05	2022-04-11 14:47:50
6	009CALS.d	S06	2022-04-11 14:50:53
7	010CALS.d	S07	2022-04-11 14:53:59
8	011CALS.d	S08	2022-04-11 14:57:02

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.32	0.0000	P	27.3
2	☐	1.000	0.948	5866.03	0.0006	P	5.1
3	☐	50.000	47.364	277283.07	0.0287	P	3.8
4	☐	125.000	115.855	709036.62	0.0701	P	2.9
5	☐	250.000	230.514	1402277.48	0.1395	A	0.3
6	☐	500.000	472.337	2767444.21	0.2859	A	2.1
7	☐	1000.000	1019.978	6047399.65	0.6175	A	2.6
8	☐			617.22	0.0001	P	11.9

$$y = 6.0535\text{E-}004 * x + 7.8851\text{E-}006$$

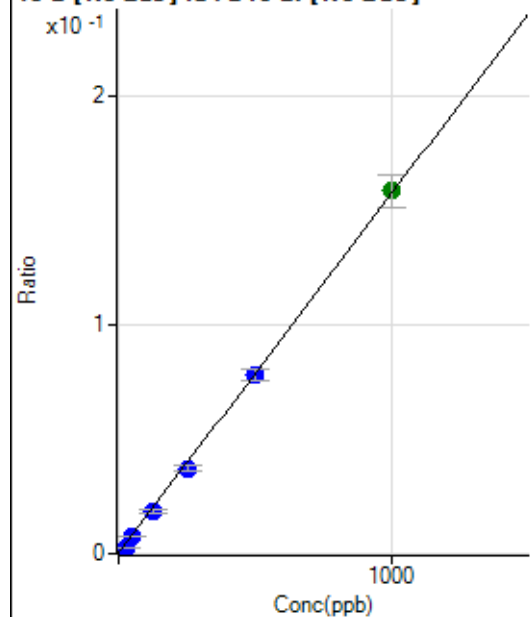
$$R = 0.9992$$

$$DL = 0.01068$$

$$BEC = 0.01303$$

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	2605.06	0.0003	P	2.6
2	☐	25.000	12.246	22096.65	0.0022	P	5.1
3	☐	50.000	46.099	72545.01	0.0075	P	7.8
4	☐	125.000	114.109	183775.96	0.0182	P	8.1
5	☐	250.000	236.065	375072.99	0.0374	P	6.5
6	☐	500.000	495.757	755765.71	0.0782	P	7.0
7	☐	1000.000	1007.480	1551715.95	0.1586	A	8.9
8	☐			147615.82	0.0159	P	7.5

$$y = 1.5720\text{E-}004 * x + 2.6584\text{E-}004$$

$$R = 0.9999$$

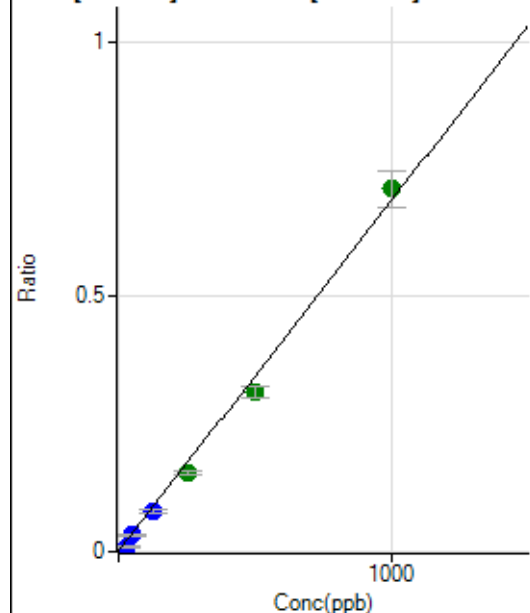
$$DL = 0.1305$$

$$BEC = 1.691$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11795.18	0.0012	P	3.2
2	☐	25.000	11.873	94390.88	0.0094	P	5.1
3	☐	50.000	45.957	316489.90	0.0328	P	8.9
4	☐	125.000	113.090	796487.42	0.0789	P	8.0
5	☐	250.000	223.347	1551854.24	0.1546	A	6.4
6	☐	500.000	451.167	3010091.30	0.3111	A	7.2
7	☐	1000.000	1033.099	6953656.29	0.7109	A	9.9
8	☐			651244.37	0.0702	P	7.5

$$y = 6.8697E-004 * x + 0.0012$$

$$R = 0.9980$$

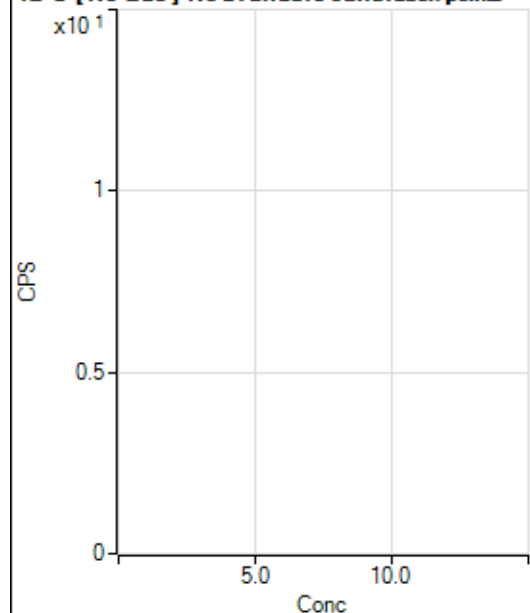
$$DL = 0.166$$

$$BEC = 1.752$$

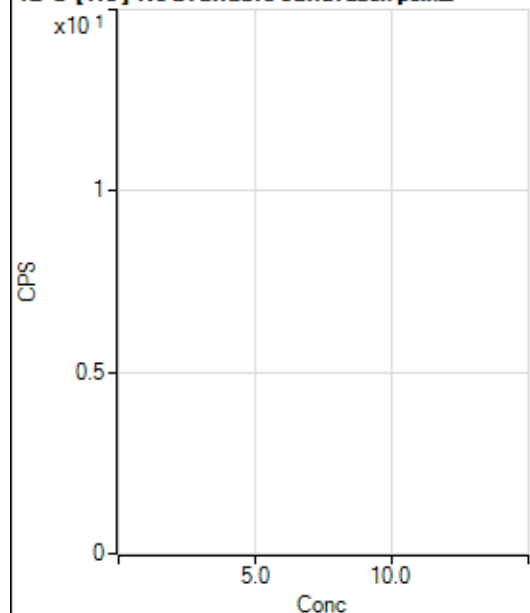
Weight: <None>

Min Conc: 0

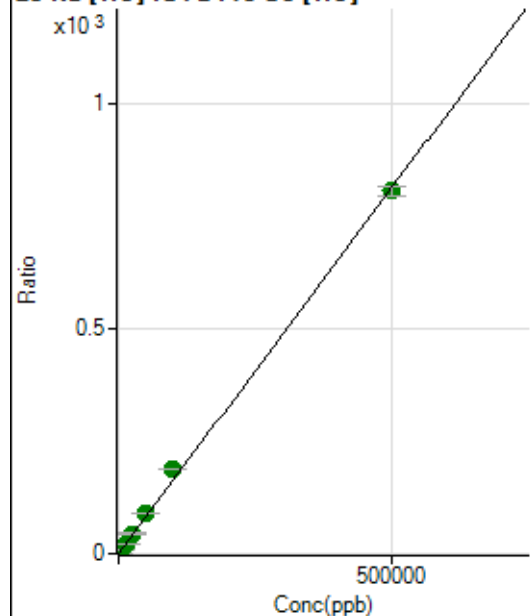
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8152165.89		A	0.5
2	☐			8451450.36		A	1.8
3	☐			9069604.11		A	2.0
4	☐			9347557.94		A	0.3
5	☐			9520665.93		A	0.7
6	☐			10152658.99		A	2.0
7	☐			12141823.45		A	4.8
8	☐			11072851.81		A	1.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			73760.45		P	1.7
2	☐			78577.61		P	0.4
3	☐			86412.98		P	1.7
4	☐			88051.33		P	1.6
5	☐			91491.16		P	1.2
6	☐			97032.32		P	1.7
7	☐			122946.71		P	0.5
8	☐			116134.18		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13531.54	0.0467	P	2.6
2	☐	500.000	498.838	247067.78	0.8588	P	0.5
3	☐	5000.000	5445.299	2470334.39	8.9120	A	0.9
4	☐	12500.000	13420.242	6101876.57	21.8957	A	1.8
5	☐	25000.000	27548.811	12359985.17	44.8979	A	1.2
6	☐	50000.000	55233.378	24528666.35	89.9701	A	3.5
7	☐	100000.00	115373.71	53203533.48	187.8823	A	0.4
8	☐	500000.00	496247.02	232294307.9	807.9678	A	2.7

$$y = 0.0016 * x + 0.0467$$

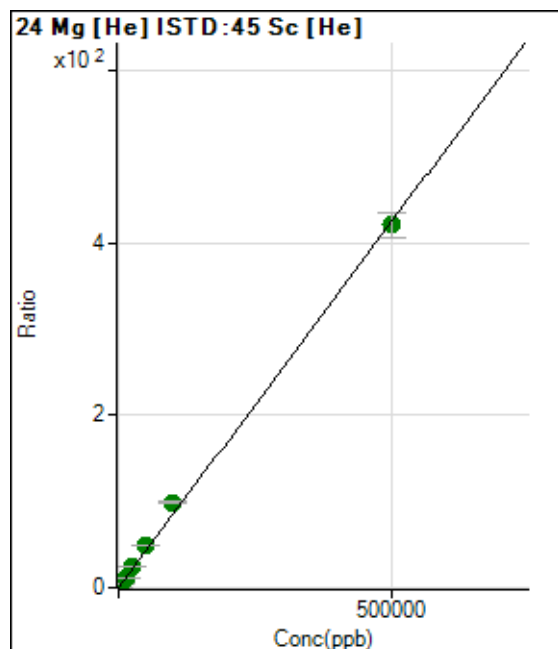
$$R = 0.9995$$

$$DL = 2.207$$

$$BEC = 28.67$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	480.58	0.0017	P	8.0
2	☐	500.000	518.287	127201.22	0.4421	P	0.8
3	☐	5000.000	5634.309	1327910.54	4.7902	A	1.0
4	☐	12500.000	14041.762	3326244.17	11.9356	A	1.4
5	☐	25000.000	28143.677	6584673.50	23.9207	A	0.7
6	☐	50000.000	56761.596	13154147.08	48.2429	A	0.3
7	☐	100000.00	116407.97	28017379.44	98.9358	A	0.9
8	☐	500000.00	495840.15	121042988.8	421.4120	A	6.8

$$y = 8.4989\text{E-}004 * x + 0.0017$$

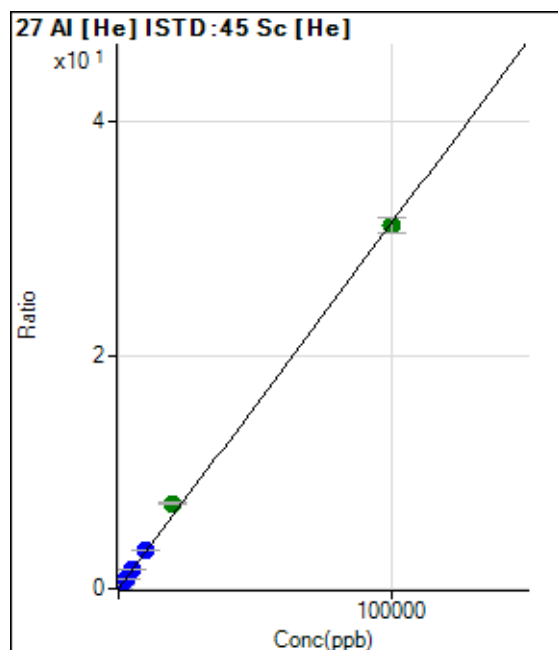
$$R = 0.9994$$

$$DL = 0.4667$$

$$BEC = 1.951$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.24	0.0002	P	18.8
2	☐	20.000	23.218	2161.15	0.0075	P	2.6
3	☐	1000.000	1058.024	91852.28	0.3314	P	0.9
4	☐	2500.000	2617.632	228396.18	0.8196	P	0.2
5	☐	5000.000	5272.915	454367.05	1.6506	P	0.9
6	☐	10000.000	10572.568	902342.46	3.3094	P	0.9
7	☐	20000.000	23253.114	2061242.30	7.2783	A	2.9
8	☐	100000.00	99274.953	8930529.95	31.0728	A	4.3

$$y = 3.1299\text{E-}004 * x + 2.4570\text{E-}004$$

$$R = 0.9994$$

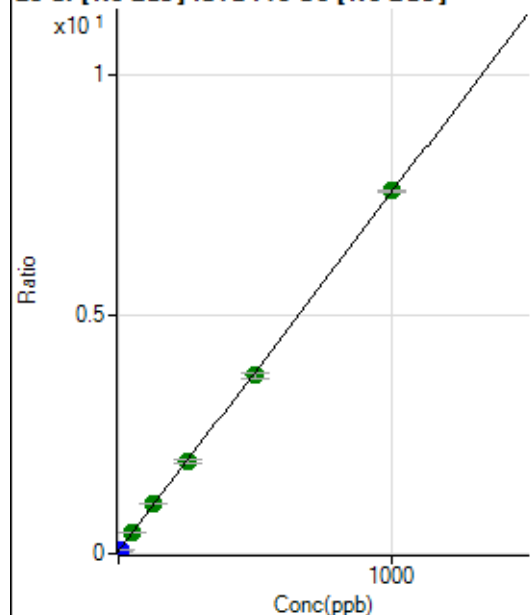
$$DL = 0.4419$$

$$BEC = 0.785$$

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	707319.05	0.0547	P	3.2
2	☐	10.000	1.578	871787.00	0.0665	P	1.1
3	☐	50.000	52.789	5643461.89	0.4506	A	3.3
4	☐	125.000	130.467	13087028.16	1.0331	A	1.1
5	☐	250.000	249.040	24270114.43	1.9222	A	4.0
6	☐	500.000	489.999	47114261.82	3.7291	A	2.8
7	☐	1000.000	1004.502	94673979.89	7.5873	A	0.6
8	☐			3545957.72	0.2906	A	3.1

$$y = 0.0075 * x + 0.0547$$

$$R = 0.9999$$

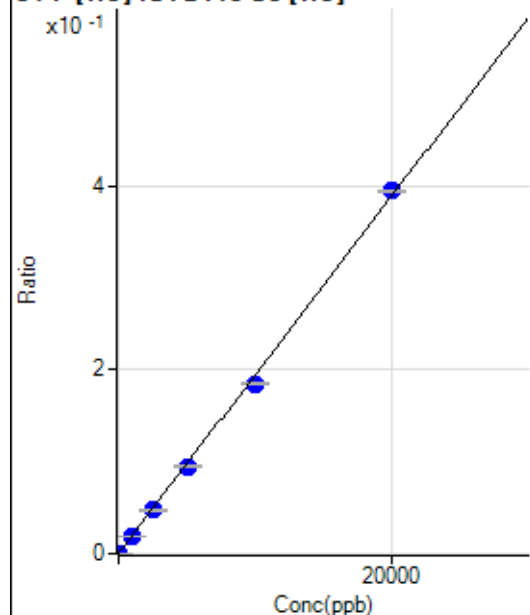
$$DL = 0.7079$$

$$BEC = 7.295$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.294	97.22	0.0003	P	30.2
2	☐	0.000	3.294	133.34	0.0005	P	22.6
3	☐	1000.000	946.166	5209.42	0.0188	P	1.1
4	☐	2500.000	2412.057	13178.52	0.0473	P	2.8
5	☐	5000.000	4833.129	25971.23	0.0944	P	2.0
6	☐	10000.000	9505.828	50494.52	0.1852	P	1.0
7	☐	20000.000	20302.489	111876.93	0.3951	P	0.6
8	☐			125.01	0.0004	P	31.6

$$y = 1.9439E-005 * x + 3.9953E-004$$

$$R = 0.9995$$

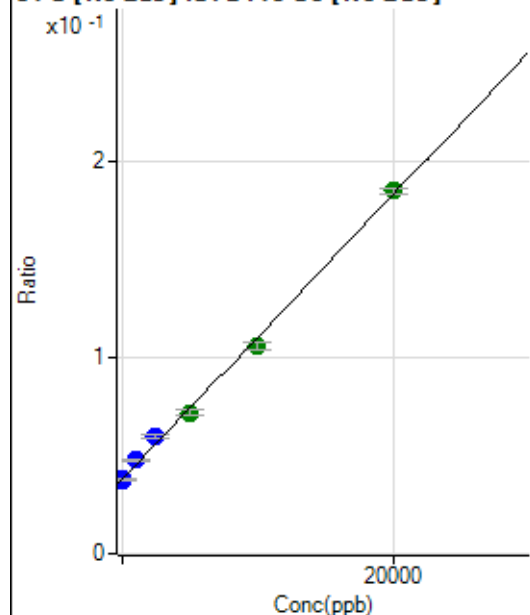
$$DL = 15.89$$

$$BEC = 20.55$$

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	-5.839	488207.11	0.0378	P	2.6
2	☐	0.000	5.839	495713.39	0.0378	P	1.1
3	☐	1000.000	1384.986	599612.24	0.0479	P	2.1
4	☐	2500.000	3071.483	761486.72	0.0601	P	3.0
5	☐	5000.000	4669.511	905854.77	0.0717	A	4.2
6	☐	10000.000	9436.352	1343677.44	0.1064	A	3.8
7	☐	20000.000	20273.761	2309969.97	0.1851	A	1.6
8	☐			404056.34	0.0331	P	1.7

$$y = 7.2672E-006 * x + 0.0378$$

R = 0.9985

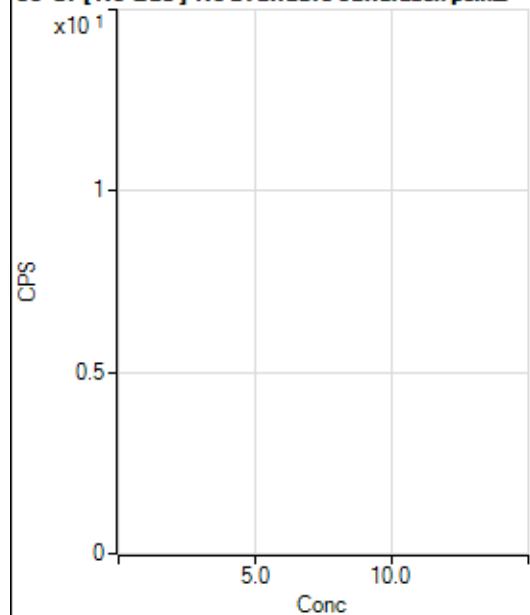
DL = 290.7

BEC = 5201

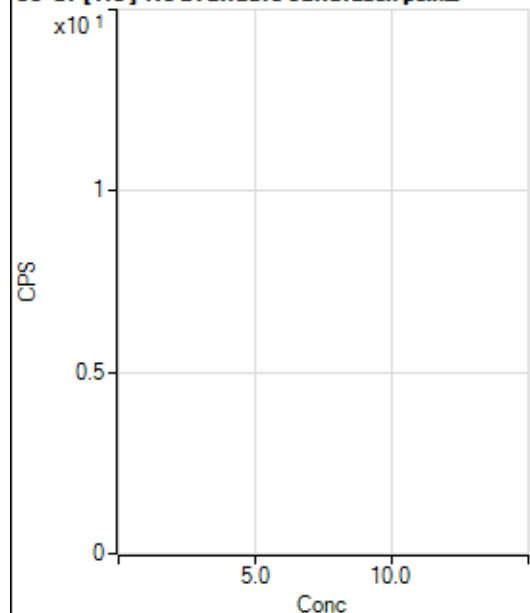
Weight: <None>

Min Conc: 0

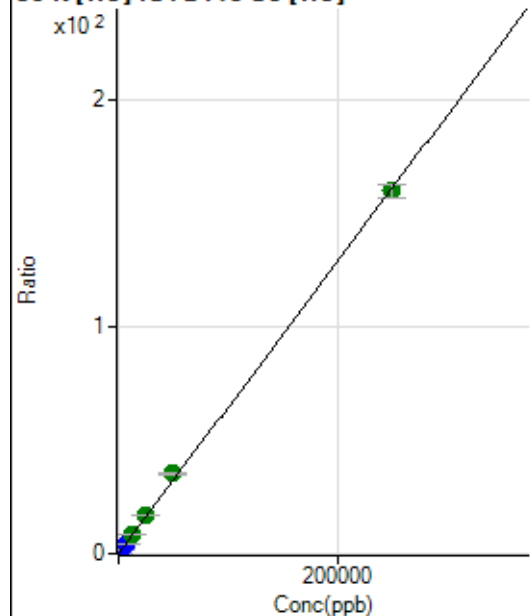
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			473771.67		P	0.6
2	☐			472169.19		P	0.8
3	☐			492723.15		P	2.7
4	☐			454161.87		P	0.5
5	☐			433750.39		P	0.8
6	☐			416713.40		P	1.5
7	☐			388364.60		P	0.9
8	☐			383251.68		P	0.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2386.38		P	4.2
2	☐			2366.93		P	5.1
3	☐			2522.52		P	13.4
4	☐			2378.03		P	6.3
5	☐			2286.35		P	0.6
6	☐			2189.12		P	4.9
7	☐			1936.30		P	6.5
8	☐			2105.77		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17778.09	0.0613	P	3.0
2	☐	500.000	501.043	110072.48	0.3826	P	1.5
3	☐	2500.000	2596.174	478308.01	1.7261	P	2.5
4	☐	6250.000	6429.718	1166052.81	4.1842	P	0.8
5	☐	12500.000	13099.719	2329311.90	8.4611	A	2.1
6	☐	25000.000	26112.859	4582434.82	16.8054	A	1.0
7	☐	50000.000	55199.128	10039806.73	35.4562	A	2.1
8	☐	250000.00	248813.44	45877273.94	159.6057	A	3.6

$$y = 6.4122\text{E-}004 * x + 0.0613$$

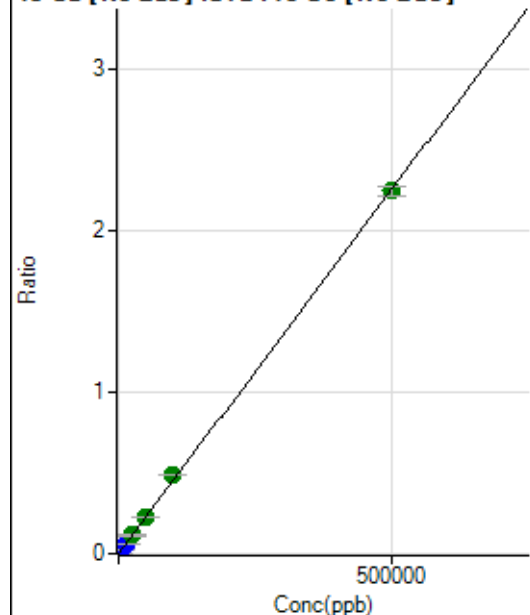
$$R = 0.9998$$

$$DL = 8.709$$

$$BEC = 95.65$$

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	225.81	0.0000	P	11.0
2	☐	500.000	465.105	27719.87	0.0021	P	1.0
3	☐	5000.000	4999.588	282856.54	0.0226	P	0.7
4	☐	12500.000	12526.792	716154.01	0.0565	P	2.3
5	☐	25000.000	25201.049	1436574.25	0.1137	A	2.4
6	☐	50000.000	50369.976	2870689.66	0.2273	A	4.4
7	☐	100000.00	107603.31	6058239.55	0.4855	A	0.8
8	☐	500000.00	498431.65	27437403.08	2.2490	A	2.5

$$y = 4.5121E-006 * x + 1.7486E-005$$

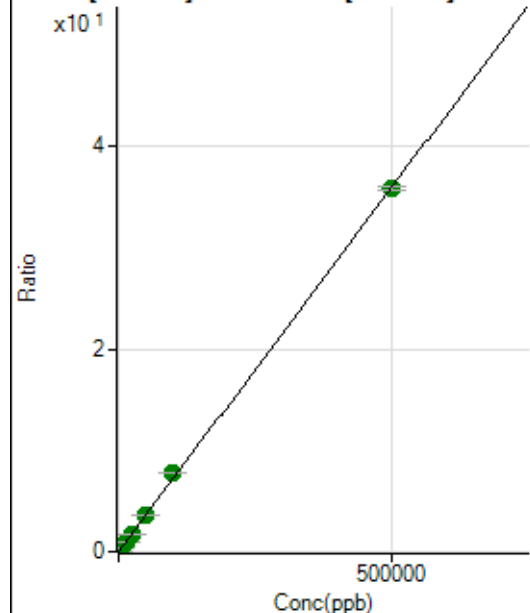
$$R = 0.9999$$

$$DL = 1.274$$

$$BEC = 3.875$$

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	13643.38	0.0011	P	3.5
2	☐	500.000	476.688	462000.65	0.0353	P	0.8
3	☐	5000.000	5026.736	4533368.71	0.3618	A	1.7
4	☐	12500.000	12486.684	11366998.89	0.8973	A	1.3
5	☐	25000.000	24773.872	22477940.69	1.7791	A	0.8
6	☐	50000.000	49905.359	45255286.71	3.5829	A	3.9
7	☐	100000.00	108403.93	97089182.39	7.7814	A	1.3
8	☐	500000.00	498340.07	436388929.2	35.7680	A	1.0

$$y = 7.1772E-005 * x + 0.0011$$

$$R = 0.9998$$

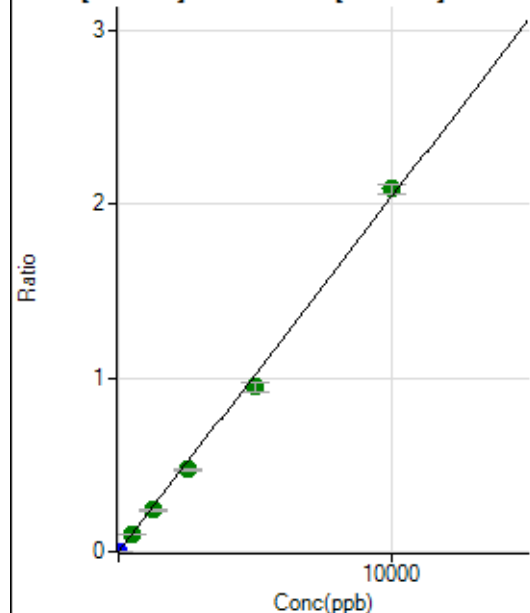
$$DL = 1.559$$

$$BEC = 14.7$$

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	447.25	0.0000	P	12.2
2	☐	5.000	4.609	12764.36	0.0010	P	1.9
3	☐	500.000	480.358	1227521.39	0.0980	A	2.2
4	☐	1250.000	1170.439	3023845.51	0.2387	A	1.9
5	☐	2500.000	2323.370	5987559.81	0.4738	A	1.9
6	☐	5000.000	4645.023	11960138.46	0.9473	A	5.7
7	☐	10000.000	10232.574	26038304.75	2.0867	A	2.7
8	☐			4323.01	0.0004	P	5.2

$$y = 2.0392\text{E-}004 * x + 3.4547\text{E-}005$$

$$R = 0.9989$$

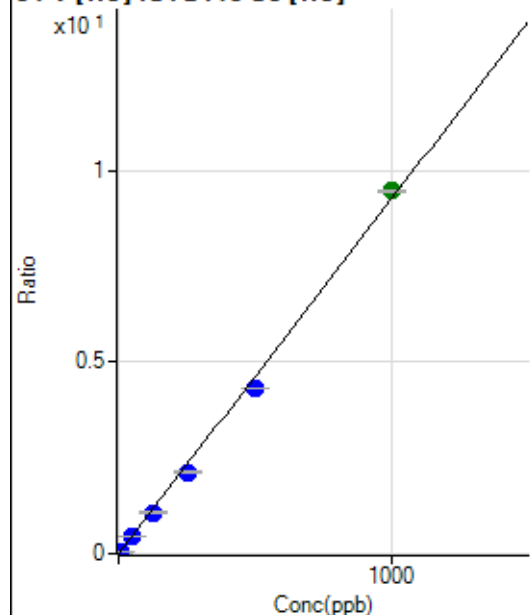
$$DL = 0.06226$$

$$BEC = 0.1694$$

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	10.00	0.0000	P	66.5
2	☐	5.000	4.467	11899.49	0.0414	P	2.7
3	☐	50.000	46.959	120401.58	0.4345	P	2.0
4	☐	125.000	116.244	299709.17	1.0754	P	0.6
5	☐	250.000	230.044	585811.71	2.1282	P	2.1
6	☐	500.000	467.353	1178904.35	4.3237	P	0.2
7	☐	1000.000	1022.562	2678869.20	9.4601	A	0.3
8	☐			466.68	0.0016	P	6.8

$$y = 0.0093 * x + 3.4463\text{E-}005$$

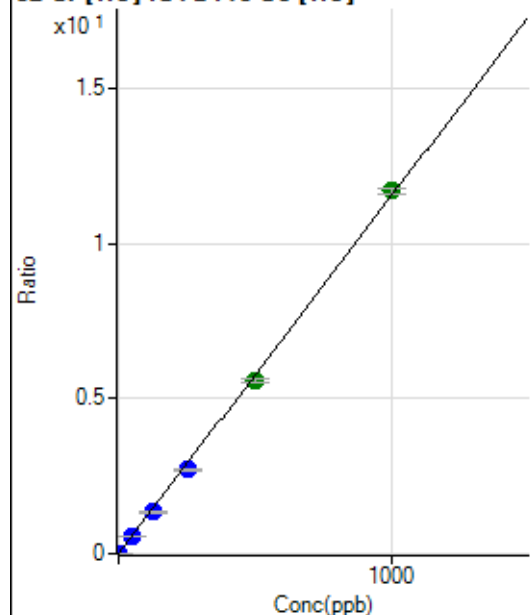
$$R = 0.9990$$

$$DL = 0.007437$$

$$BEC = 0.003725$$

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	1162.28	0.0040	P	5.0
2	☐	2.000	1.799	7135.17	0.0248	P	2.7
3	☐	50.000	46.883	151253.90	0.5457	P	1.4
4	☐	125.000	115.244	372239.08	1.3357	P	1.8
5	☐	250.000	234.347	746478.05	2.7119	P	1.8
6	☐	500.000	483.010	1522836.73	5.5853	A	1.6
7	☐	1000.000	1013.784	3318258.18	11.7184	A	1.4
8	☐			26819.94	0.0933	P	4.0

$$y = 0.0116 * x + 0.0040$$

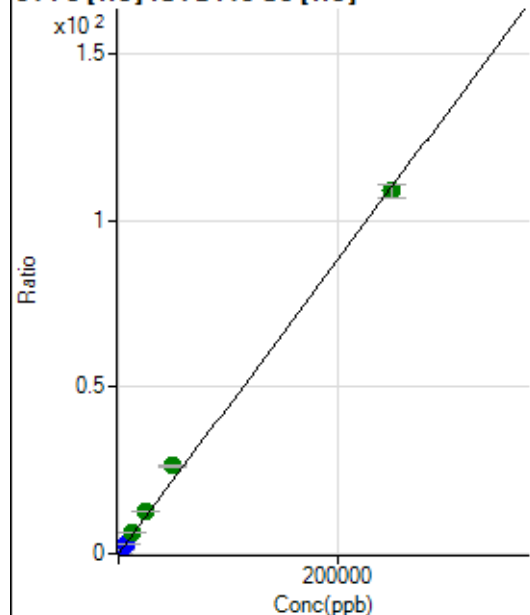
$$R = 0.9996$$

$$DL = 0.05233$$

$$BEC = 0.347$$

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	640.77	0.0022	P	17.9
2	☐	50.000	57.907	7972.74	0.0277	P	1.1
3	☐	2500.000	2867.515	350607.80	1.2651	P	1.2
4	☐	6250.000	7047.945	865633.23	3.1061	P	1.2
5	☐	12500.000	14448.861	1752088.45	6.3654	A	2.8
6	☐	25000.000	28591.944	3434050.16	12.5940	A	0.8
7	☐	50000.000	59895.903	7470098.78	26.3801	A	0.9
8	☐	250000.00	247540.55	31337691.67	109.0181	A	3.8

$$y = 4.4040E-004 * x + 0.0022$$

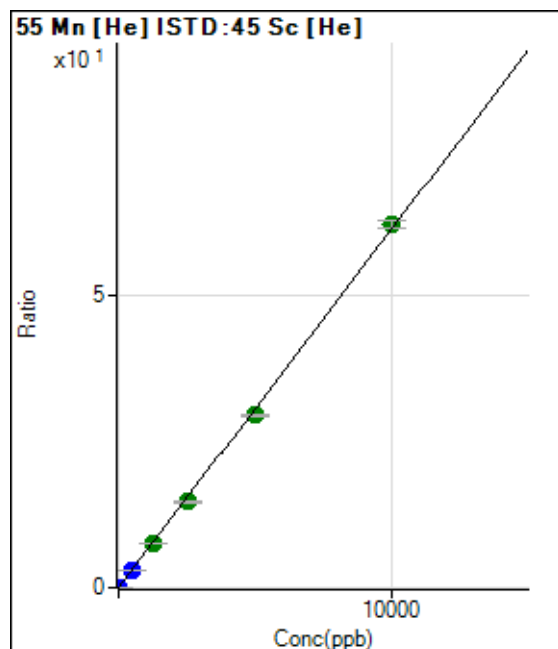
$$R = 0.9991$$

$$DL = 2.696$$

$$BEC = 5.02$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	154.45	0.0005	P	14.3
2	☐	1.000	1.020	1956.82	0.0068	P	2.6
3	☐	500.000	485.565	827473.79	2.9859	P	1.8
4	☐	1250.000	1219.641	2089894.17	7.4991	A	1.4
5	☐	2500.000	2410.546	4079492.34	14.8210	A	2.5
6	☐	5000.000	4805.247	8056029.46	29.5440	A	1.3
7	☐	10000.000	10124.256	17626749.18	62.2463	A	2.2
8	☐			8051.23	0.0280	P	4.3

$$y = 0.0061 * x + 5.3295E-004$$

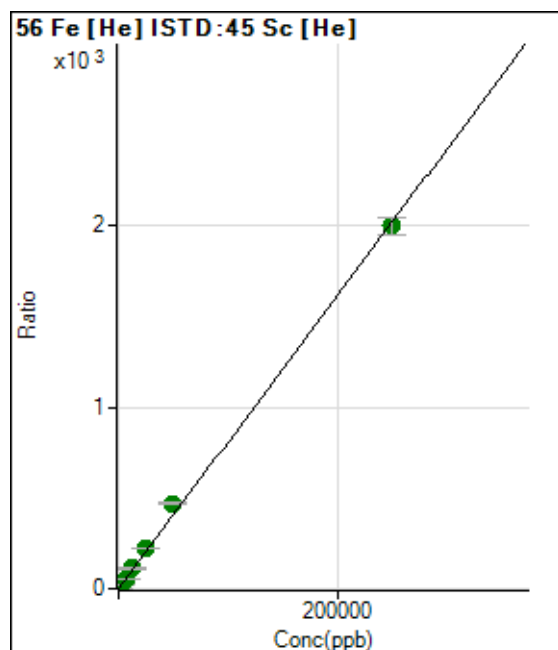
$$R = 0.9997$$

$$DL = 0.03713$$

$$BEC = 0.08668$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5949.50	0.0205	P	5.2
2	☐	50.000	56.591	137165.45	0.4768	P	0.1
3	☐	2500.000	2884.612	6450762.70	23.2774	A	1.9
4	☐	6250.000	7027.589	15795693.06	56.6797	A	0.2
5	☐	12500.000	13920.202	30897229.39	112.2506	A	2.2
6	☐	25000.000	27823.731	61175965.72	224.3463	A	2.0
7	☐	50000.000	58271.912	133044804.8	469.8314	A	1.6
8	☐	250000.00	247968.94	574652409.1	1.999243	A	4.9

$$y = 0.0081 * x + 0.0205$$

$$R = 0.9994$$

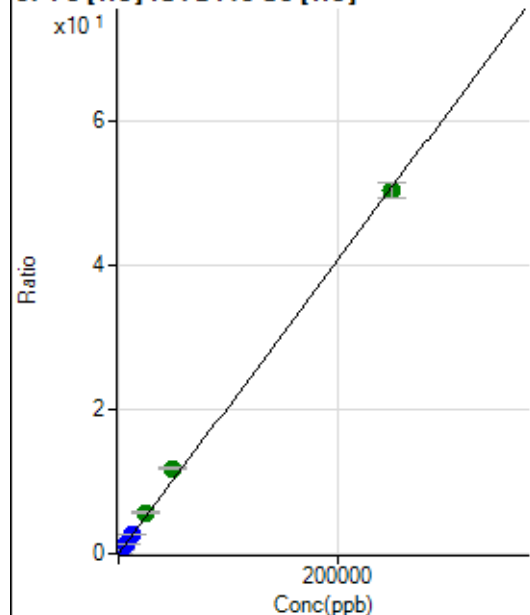
$$DL = 0.3993$$

$$BEC = 2.546$$

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	161.11	0.0006	P	29.4
2	☐	50.000	56.087	3439.38	0.0120	P	4.4
3	☐	2500.000	2789.647	157282.11	0.5675	P	1.2
4	☐	6250.000	6828.607	386885.97	1.3883	P	0.6
5	☐	12500.000	13632.835	762747.74	2.7710	P	1.8
6	☐	25000.000	28243.304	1565206.26	5.7402	A	1.0
7	☐	50000.000	58469.894	3365129.91	11.8829	A	2.2
8	☐	250000.00	247907.68	14481525.90	50.3807	A	4.4

$$y = 2.0322\text{E-}004 * x + 5.5575\text{E-}004$$

R = 0.9993

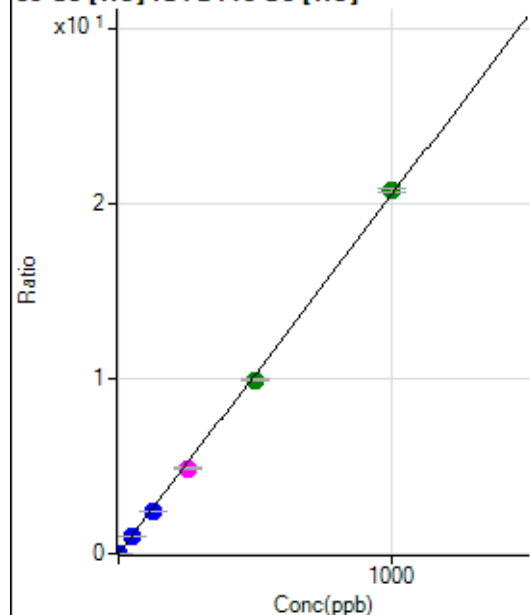
DL = 2.409

BEC = 2.735

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	85.55	0.0003	P	24.5
2	☐	1.000	0.964	5781.23	0.0201	P	5.6
3	☐	50.000	48.728	277376.95	1.0010	P	2.7
4	☐	125.000	120.215	688093.98	2.4691	P	0.6
5	☐	250.000	238.286	1347093.02	4.8938	M	1.2
6	☐	500.000	484.479	2712871.42	9.9496	A	0.6
7	☐	1000.000	1011.351	5881682.76	20.7695	A	1.0
8	☐			13953.62	0.0485	P	2.8

$$y = 0.0205 * x + 2.9506\text{E-}004$$

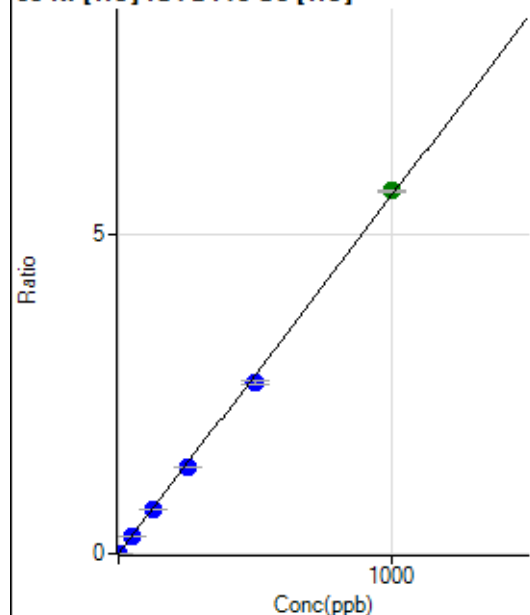
R = 0.9997

DL = 0.01058

BEC = 0.01437

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	57.78	0.0002	P	17.6
2	☐	1.000	0.971	1621.22	0.0056	P	7.2
3	☐	50.000	49.720	77241.09	0.2787	P	0.8
4	☐	125.000	122.536	191325.24	0.6865	P	0.8
5	☐	250.000	241.563	372486.47	1.3532	P	1.3
6	☐	500.000	477.461	729200.91	2.6745	P	1.4
7	☐	1000.000	1013.701	1607860.06	5.6780	A	0.5
8	☐			10336.06	0.0360	P	4.1

$$y = 0.0056 * x + 1.9932E-004$$

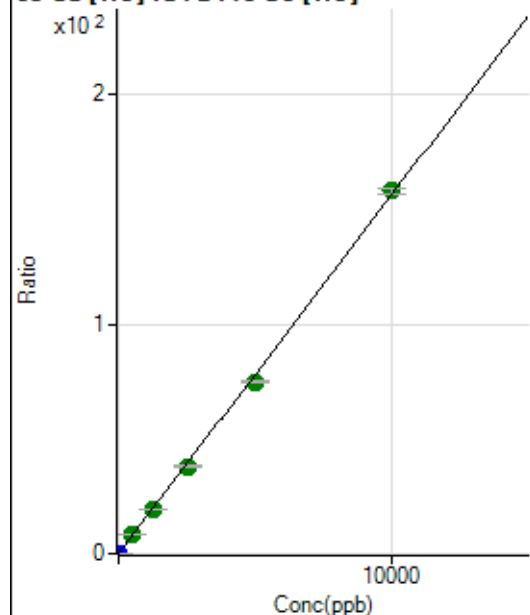
$$R = 0.9996$$

$$DL = 0.01875$$

$$BEC = 0.03559$$

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	918.93	0.0032	P	1.9
2	☐	2.000	1.987	9836.86	0.0342	P	3.8
3	☐	500.000	516.268	2235812.21	8.0657	A	1.2
4	☐	1250.000	1252.080	5450334.50	19.5569	A	1.2
5	☐	2500.000	2439.409	10487796.72	38.0994	A	2.5
6	☐	5000.000	4795.685	20421017.19	74.8974	A	1.7
7	☐	10000.000	10116.232	44741716.56	157.9883	A	1.9
8	☐			11470.28	0.0399	P	4.5

$$y = 0.0156 * x + 0.0032$$

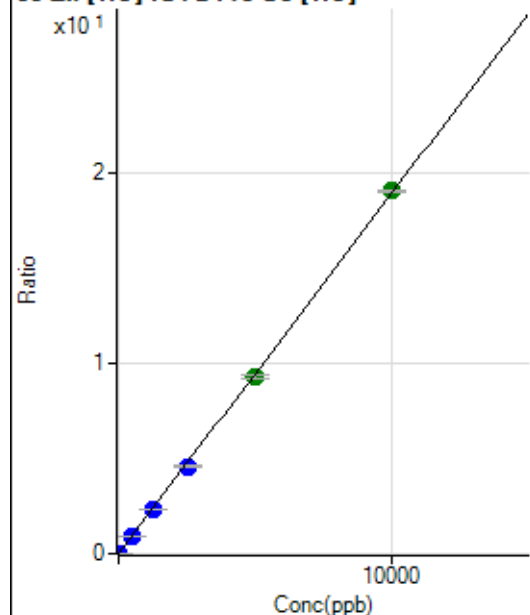
$$R = 0.9997$$

$$DL = 0.01131$$

$$BEC = 0.203$$

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	162.23	0.0006	P	24.6
2	☐	2.000	2.278	1398.97	0.0049	P	4.1
3	☐	500.000	497.372	260426.78	0.9399	P	3.3
4	☐	1250.000	1211.419	637746.32	2.2884	P	0.9
5	☐	2500.000	2417.091	1256668.13	4.5654	P	1.8
6	☐	5000.000	4895.083	2520715.90	9.2453	A	2.3
7	☐	10000.000	10078.140	5390044.37	19.0339	A	0.5
8	☐			3688.29	0.0128	P	2.3

$$y = 0.0019 * x + 5.5957E-004$$

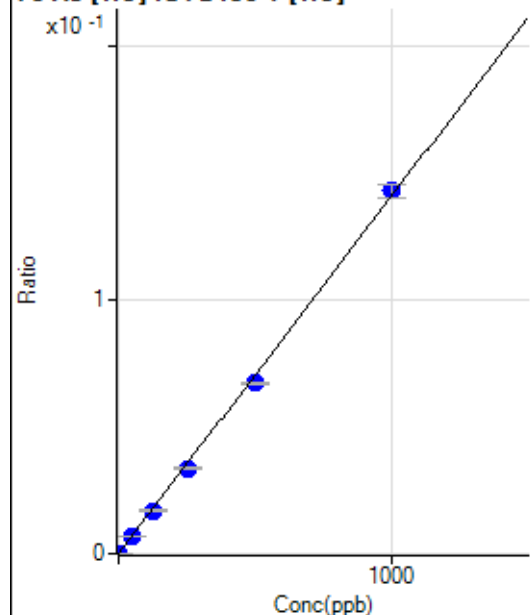
$$R = 0.9999$$

$$DL = 0.2183$$

$$BEC = 0.2963$$

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	11.00	0.0000	P	10.2
2	☐	1.000	1.024	322.37	0.0001	P	2.9
3	☐	50.000	49.235	14458.51	0.0070	P	1.7
4	☐	125.000	120.487	35439.80	0.0170	P	1.2
5	☐	250.000	239.267	70466.86	0.0338	P	1.4
6	☐	500.000	477.398	139558.38	0.0674	P	1.1
7	☐	1000.000	1014.587	305253.31	0.1432	P	3.8
8	☐			99.68	0.0000	P	3.6

$$y = 1.4111E-004 * x + 5.0242E-006$$

$$R = 0.9996$$

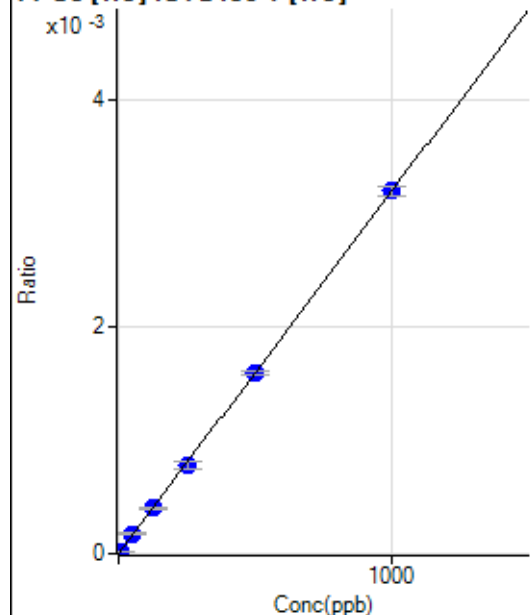
$$DL = 0.01092$$

$$BEC = 0.03561$$

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	0.00	0.0000	P	
2	☐	5.000	4.372	30.00	0.0000	P	30.2
3	☐	50.000	54.624	362.23	0.0002	P	9.2
4	☐	125.000	125.253	831.14	0.0004	P	7.7
5	☐	250.000	244.707	1626.78	0.0008	P	9.4
6	☐	500.000	498.973	3294.87	0.0016	P	1.5
7	☐	1000.000	1001.577	6810.60	0.0032	P	2.4
8	☐			3.33	0.0000	P	173.2

$$y = 3.1872\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 1.0000$$

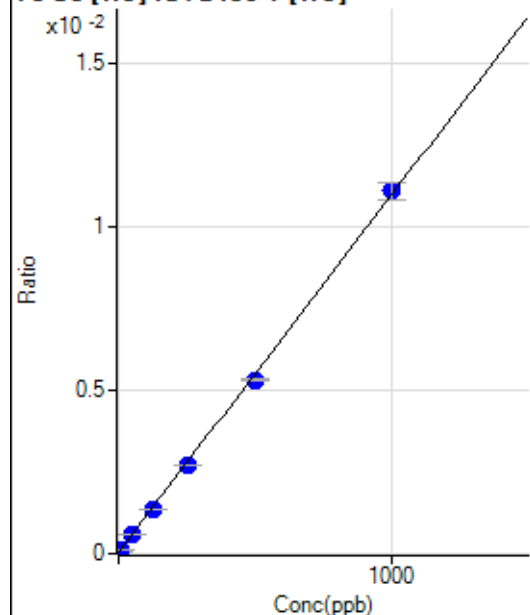
$$DL = 0$$

$$BEC = 0$$

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	101.01	0.0000	P	15.3
2	☐	5.000	4.981	217.02	0.0001	P	3.7
3	☐	50.000	48.732	1205.18	0.0006	P	2.0
4	☐	125.000	121.347	2863.92	0.0014	P	1.2
5	☐	250.000	244.925	5690.40	0.0027	P	0.6
6	☐	500.000	480.947	11000.41	0.0053	P	1.1
7	☐	1000.000	1011.315	23689.90	0.0111	P	5.1
8	☐			89.68	0.0000	P	9.3

$$y = 1.0944\text{E-}005 * x + 4.6153\text{E-}005$$

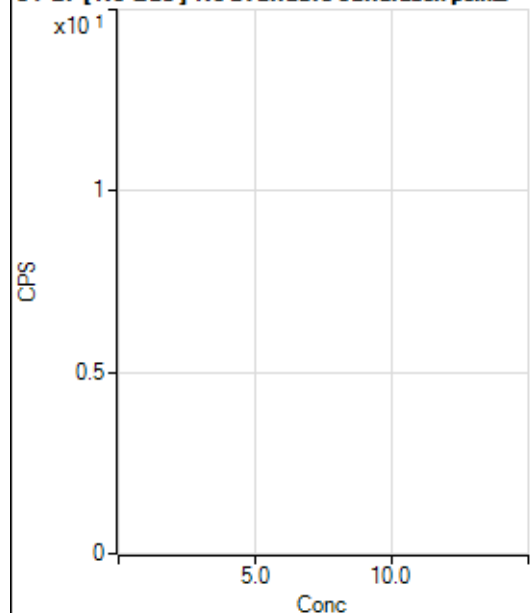
$$R = 0.9997$$

$$DL = 1.942$$

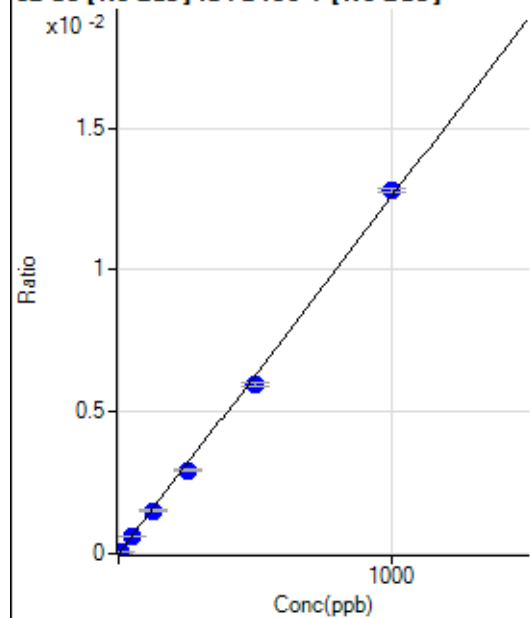
$$BEC = 4.217$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			87574.73		P	2.6
2	☐			89055.16		P	3.7
3	☐			84957.03		P	2.7
4	☐			83683.47		P	2.5
5	☐			80205.30		P	5.6
6	☐			76991.87		P	2.3
7	☐			80974.50		P	2.4
8	☐			78602.15		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-109.69	0.0000	P	-254.
2	☐	5.000	4.967	1513.89	0.0001	P	8.1
3	☐	50.000	48.449	15316.59	0.0006	P	4.4
4	☐	125.000	120.898	38510.31	0.0015	P	3.5
5	☐	250.000	234.314	76242.99	0.0029	P	1.2
6	☐	500.000	475.214	151494.43	0.0060	P	2.1
7	☐	1000.000	1016.905	326099.46	0.0128	P	1.0
8	☐			429.92	0.0000	P	18.7

$$y = 1.2576E-005 * x - 4.1704E-006$$

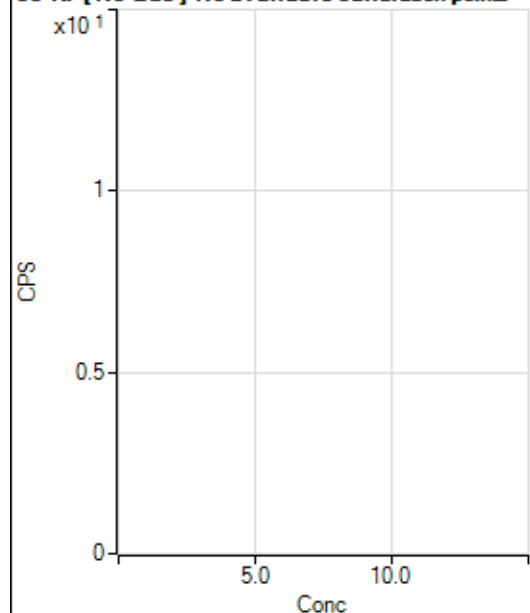
$$R = 0.9994$$

$$DL = 2.528$$

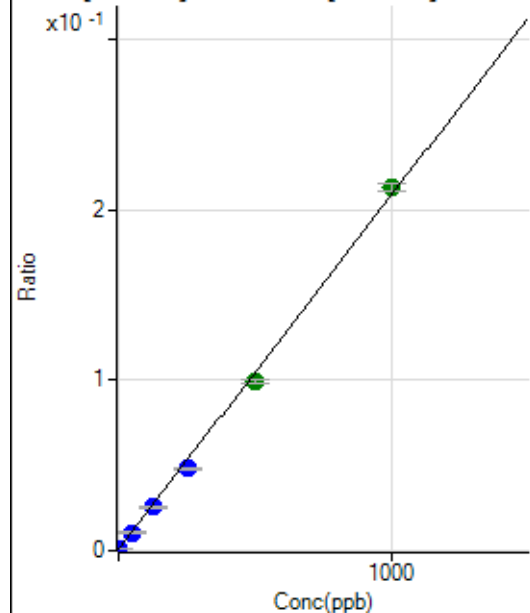
$$BEC = -0.3316$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13593.64		P	0.7
2	☐			13880.95		P	0.9
3	☐			13653.27		P	1.4
4	☐			13397.22		P	0.8
5	☐			13227.50		P	1.8
6	☐			12943.10		P	2.1
7	☐			12790.06		P	0.9
8	☐			12783.81		P	0.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21636.69	0.0008	P	1.6
2	☐	1.000	0.949	26614.62	0.0010	P	2.8
3	☐	50.000	46.982	267918.80	0.0106	P	2.4
4	☐	125.000	118.864	647639.89	0.0255	P	4.3
5	☐	250.000	226.897	1241742.56	0.0479	P	2.0
6	☐	500.000	473.146	2512467.89	0.0990	A	2.4
7	☐	1000.000	1020.121	5422143.09	0.2126	A	2.1
8	☐			52231.70	0.0021	P	0.8

$$y = 2.0758E-004 * x + 8.2858E-004$$

$$R = 0.9992$$

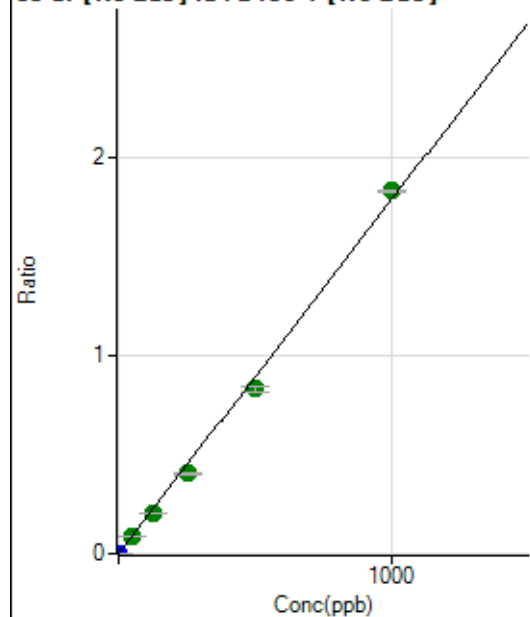
$$DL = 0.1965$$

$$BEC = 3.992$$

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	352.79	0.0000	P	28.6
2	☐	1.000	0.927	43242.96	0.0017	P	2.1
3	☐	50.000	47.782	2158151.52	0.0852	A	1.6
4	☐	125.000	115.851	5251185.45	0.2066	A	0.1
5	☐	250.000	226.241	10453680.01	0.4035	A	1.5
6	☐	500.000	464.504	21009820.09	0.8284	A	3.8
7	☐	1000.000	1024.942	46622051.04	1.8278	A	0.7
8	☐			279323.64	0.0112	P	1.4

$$y = 0.0018 * x + 1.3518E-005$$

$$R = 0.9988$$

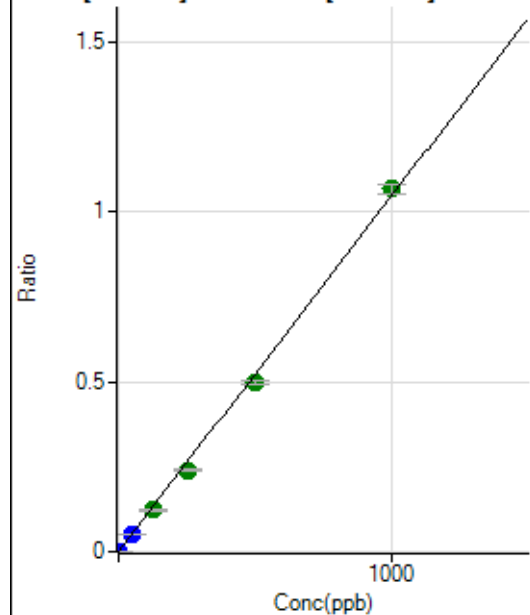
$$DL = 0.006496$$

$$BEC = 0.00758$$

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	1175.09	0.0000	P	7.1
2	☐	1.000	0.880	25067.61	0.0010	P	2.0
3	☐	50.000	47.418	1257607.65	0.0497	P	2.7
4	☐	125.000	117.041	3113729.84	0.1225	A	1.8
5	☐	250.000	228.041	6185812.29	0.2387	A	1.8
6	☐	500.000	473.504	12574698.11	0.4956	A	2.4
7	☐	1000.000	1019.862	27224091.93	1.0674	A	2.6
8	☐			12948.06	0.0005	P	5.0

$$y = 0.0010 * x + 4.5010E-005$$

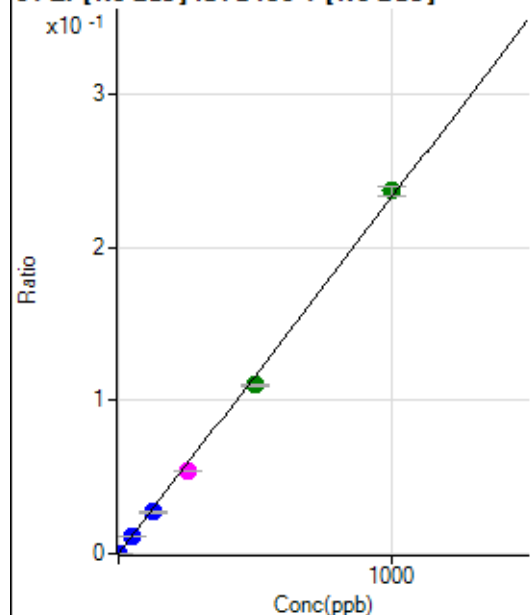
$$R = 0.9992$$

$$DL = 0.009223$$

$$BEC = 0.04301$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	255.56	0.0000	P	7.2
2	☐	1.000	0.887	5604.05	0.0002	P	2.0
3	☐	50.000	47.011	276653.83	0.0109	P	4.6
4	☐	125.000	118.185	697468.06	0.0275	P	4.3
5	☐	250.000	231.220	1392085.39	0.0537	M	1.1
6	☐	500.000	474.223	2795204.79	0.1102	A	1.4
7	☐	1000.000	1018.585	6035630.56	0.2366	A	2.5
8	☐			2789.25	0.0001	P	12.2

$$y = 2.3231\text{E-}004 * x + 9.7892\text{E-}006$$

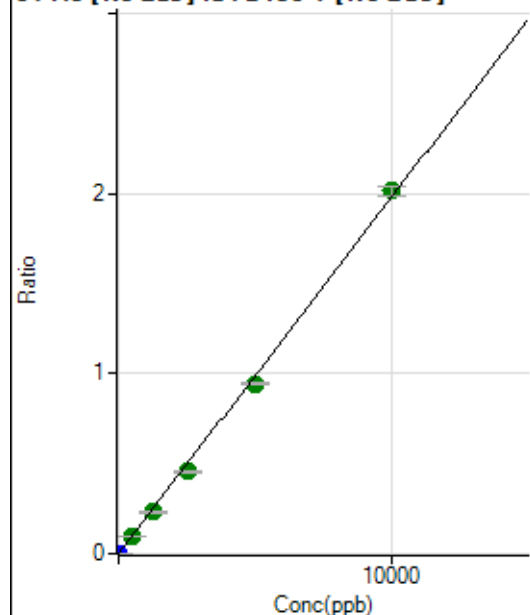
$$R = 0.9993$$

$$DL = 0.009149$$

$$BEC = 0.04214$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	458.35	0.0000	P	20.0
2	☐	5.000	5.595	29228.54	0.0011	P	1.6
3	☐	500.000	472.283	2370217.39	0.0936	A	2.3
4	☐	1250.000	1177.149	5923390.32	0.2333	A	5.0
5	☐	2500.000	2295.328	11785666.50	0.4549	A	1.6
6	☐	5000.000	4761.284	23936281.26	0.9435	A	1.3
7	☐	10000.000	10181.018	51453507.40	2.0175	A	2.7
8	☐			17984.25	0.0007	P	1.7

$$y = 1.9816\text{E-}004 * x + 1.7561\text{E-}005$$

$$R = 0.9994$$

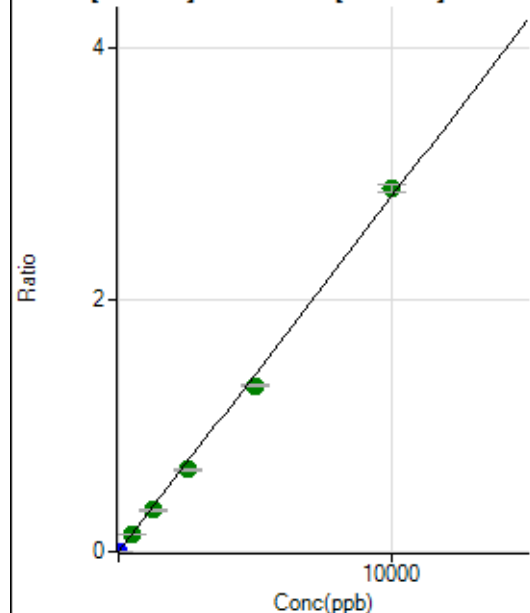
$$DL = 0.05323$$

$$BEC = 0.08862$$

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	144.45	0.0000	P	12.4
2	☐	5.000	4.821	35334.64	0.0014	P	1.8
3	☐	500.000	477.914	3403767.91	0.1344	A	3.1
4	☐	1250.000	1166.482	8332603.31	0.3281	A	4.6
5	☐	2500.000	2304.432	16796072.94	0.6483	A	2.0
6	☐	5000.000	4680.339	33398512.20	1.3166	A	2.0
7	☐	10000.000	10220.267	73329443.30	2.8750	A	2.2
8	☐			19758.96	0.0008	P	3.1

$$y = 2.8131E-004 * x + 5.5340E-006$$

$$R = 0.9990$$

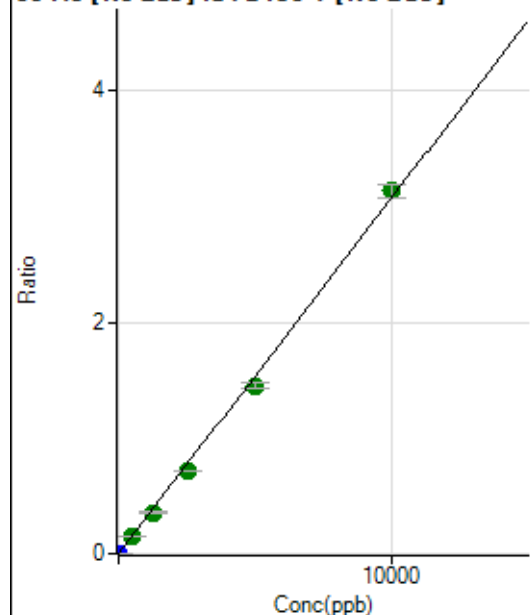
$$DL = 0.007341$$

$$BEC = 0.01967$$

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	650.03	0.0000	P	2.6
2	☐	5.000	4.927	39961.06	0.0015	P	2.6
3	☐	500.000	477.971	3721629.12	0.1470	A	3.8
4	☐	1250.000	1159.868	9060232.24	0.3567	A	3.8
5	☐	2500.000	2310.707	18414515.17	0.7107	A	0.9
6	☐	5000.000	4716.932	36797250.47	1.4507	A	3.4
7	☐	10000.000	10201.225	80021612.90	3.1374	A	3.6
8	☐			64098.33	0.0026	P	2.7

$$y = 3.0755E-004 * x + 2.4896E-005$$

$$R = 0.9992$$

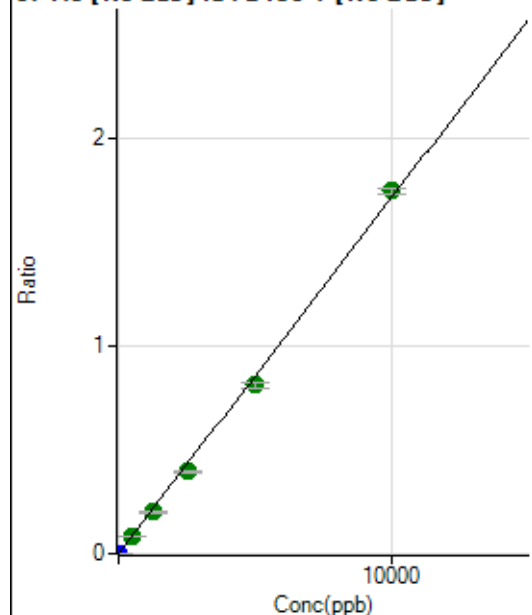
$$DL = 0.006382$$

$$BEC = 0.08095$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.11	0.0000	P	39.3
2	☐	5.000	4.814	21486.71	0.0008	P	1.5
3	☐	500.000	478.892	2077433.77	0.0820	A	2.2
4	☐	1250.000	1183.186	5147250.37	0.2027	A	5.4
5	☐	2500.000	2308.288	10244136.17	0.3954	A	2.5
6	☐	5000.000	4728.861	20546981.19	0.8101	A	3.6
7	☐	10000.000	10192.905	44535848.22	1.7461	A	1.5
8	☐			12250.12	0.0005	P	1.6

$$y = 1.7130E-004 * x + 3.3004E-006$$

$$R = 0.9993$$

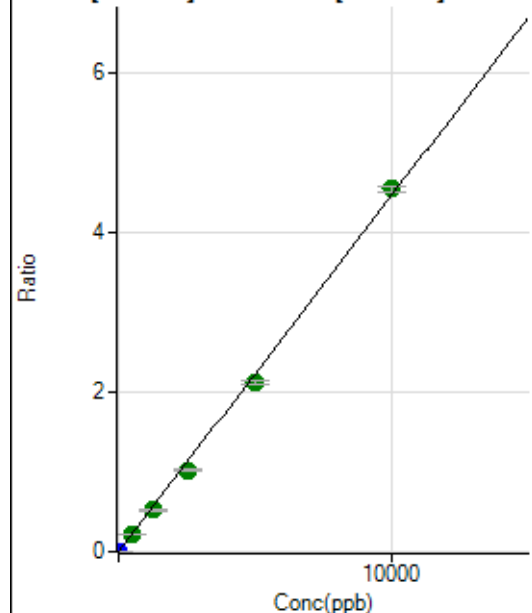
$$DL = 0.0227$$

$$BEC = 0.01927$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	322.23	0.0000	P	1.1
2	☐	5.000	4.750	55288.96	0.0021	P	3.3
3	☐	500.000	472.281	5334080.50	0.2107	A	1.8
4	☐	1250.000	1167.893	13230261.84	0.5209	A	4.2
5	☐	2500.000	2290.603	26466874.90	1.0216	A	3.1
6	☐	5000.000	4749.769	53745710.92	2.1185	A	1.8
7	☐	10000.000	10189.114	115908265.0	4.5445	A	1.8
8	☐			28276.63	0.0011	P	2.4

$$y = 4.4601E-004 * x + 1.2340E-005$$

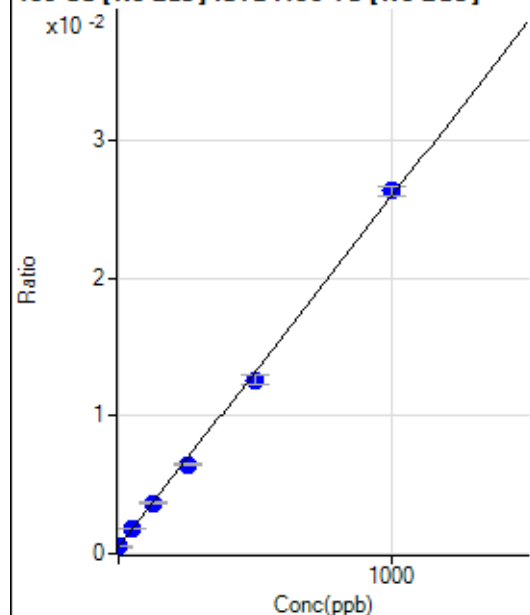
$$R = 0.9993$$

$$DL = 0.0009395$$

$$BEC = 0.02767$$

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	7757.97	0.0005	P	6.6
2	☐	1.000	0.679	8113.70	0.0005	P	2.7
3	☐	50.000	50.676	27478.35	0.0018	P	2.1
4	☐	125.000	126.046	57981.59	0.0037	P	2.3
5	☐	250.000	235.824	105614.32	0.0065	P	3.7
6	☐	500.000	474.912	200921.40	0.0126	P	5.4
7	☐	1000.000	1015.924	418808.90	0.0264	P	2.8
8	☐			7452.27	0.0005	P	4.8

$$y = 2.5455\text{E-}005 * x + 4.9171\text{E-}004$$

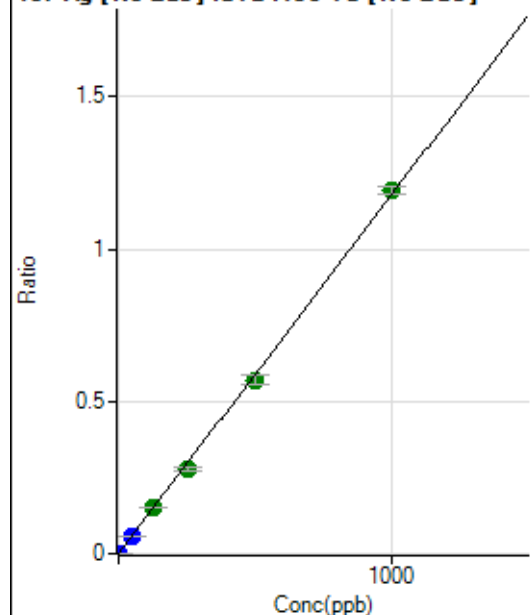
$$R = 0.9994$$

$$DL = 3.849$$

$$BEC = 19.32$$

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	166.67	0.0000	P	9.0
2	☐	1.000	0.944	17873.25	0.0011	P	4.0
3	☐	50.000	50.761	922420.82	0.0598	P	0.5
4	☐	125.000	128.747	2376381.00	0.1516	A	1.9
5	☐	250.000	236.375	4528565.25	0.2784	A	2.8
6	☐	500.000	483.423	9092778.67	0.5694	A	6.0
7	☐	1000.000	1011.188	18929773.34	1.1910	A	2.2
8	☐			5404.00	0.0003	P	10.3

$$y = 0.0012 * x + 1.0561\text{E-}005$$

$$R = 0.9997$$

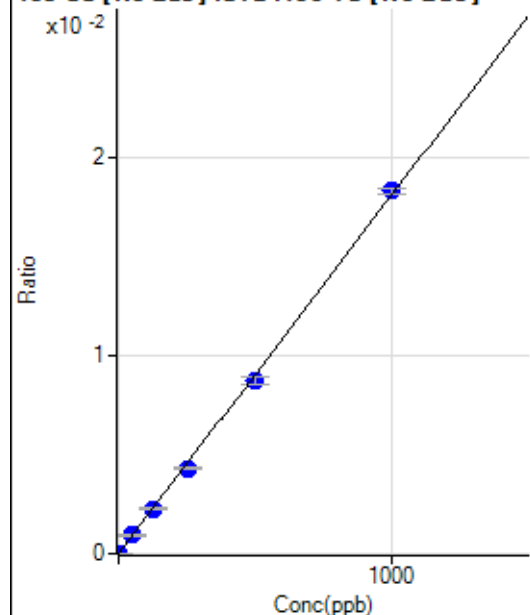
$$DL = 0.002414$$

$$BEC = 0.008966$$

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	77.78	0.0000	P	12.7
2	☐	1.000	1.062	386.12	0.0000	P	8.7
3	☐	50.000	50.892	14302.02	0.0009	P	3.4
4	☐	125.000	125.600	35759.05	0.0023	P	1.3
5	☐	250.000	238.268	70316.42	0.0043	P	3.7
6	☐	500.000	481.031	139345.83	0.0087	P	4.7
7	☐	1000.000	1012.298	291727.59	0.0184	P	1.7
8	☐			151.39	0.0000	P	25.0

$$y = 1.8126\text{E-}005 * x + 4.9371\text{E-}006$$

$$R = 0.9996$$

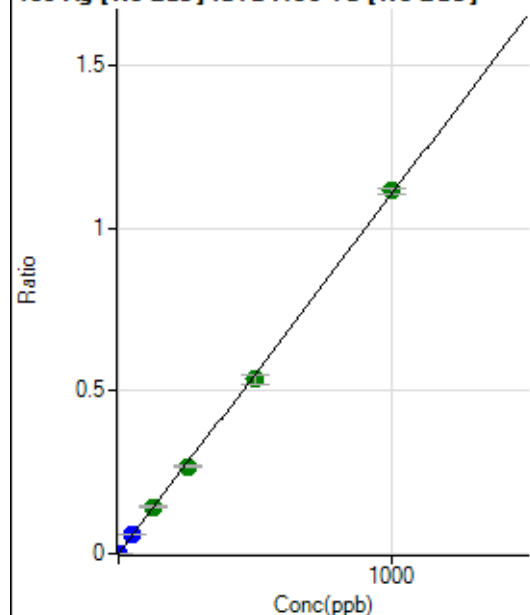
$$DL = 0.1038$$

$$BEC = 0.2724$$

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	58.33	0.0000	P	1.6
2	☐	1.000	0.966	17019.42	0.0011	P	6.6
3	☐	50.000	51.472	875869.62	0.0568	P	2.3
4	☐	125.000	129.555	2239257.23	0.1429	A	3.7
5	☐	250.000	242.377	4349471.06	0.2674	A	2.3
6	☐	500.000	484.461	8537892.03	0.5345	A	4.7
7	☐	1000.000	1009.032	17694884.42	1.1132	A	1.5
8	☐			5006.62	0.0003	P	4.3

$$y = 0.0011 * x + 3.6989\text{E-}006$$

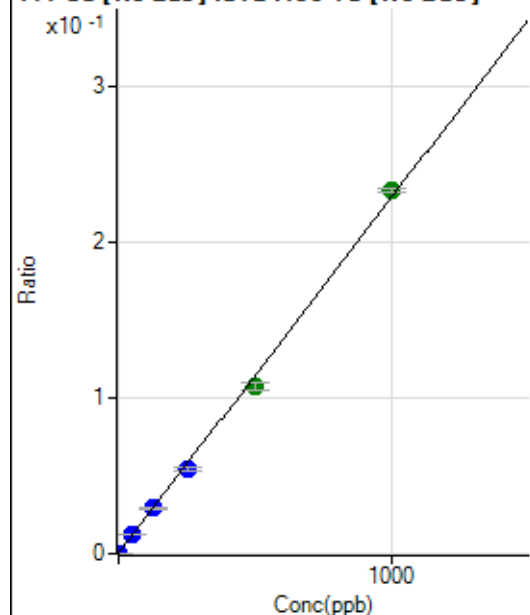
$$R = 0.9998$$

$$DL = 0.0001644$$

$$BEC = 0.003353$$

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	5434.47	0.0003	P	6.8
2	☐	1.000	0.978	9052.89	0.0006	P	1.5
3	☐	50.000	50.666	183939.80	0.0119	P	1.3
4	☐	125.000	125.895	456256.65	0.0291	P	2.9
5	☐	250.000	236.638	885197.01	0.0544	P	3.5
6	☐	500.000	469.593	1720182.21	0.1077	A	4.1
7	☐	1000.000	1018.399	3705838.42	0.2331	A	1.2
8	☐			6024.54	0.0004	P	5.7

$$y = 2.2858\text{E-}004 * x + 3.4444\text{E-}004$$

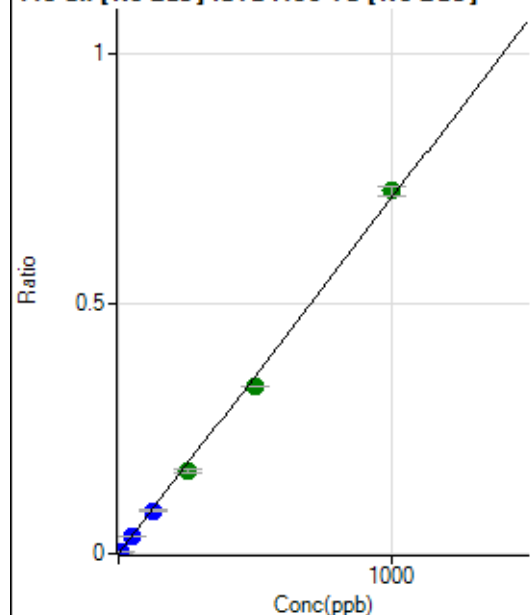
$$R = 0.9992$$

$$DL = 0.3063$$

$$BEC = 1.507$$

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	1605.70	0.0001	P	5.8
2	☐	5.000	4.818	56291.97	0.0035	P	3.8
3	☐	50.000	49.108	541056.64	0.0351	P	2.8
4	☐	125.000	121.504	1358109.31	0.0867	P	0.8
5	☐	250.000	231.868	2687335.30	0.1653	A	4.1
6	☐	500.000	469.772	5351809.19	0.3347	A	0.5
7	☐	1000.000	1020.130	11552780.47	0.7268	A	2.7
8	☐			20973.63	0.0013	P	14.8

$$y = 7.1235\text{E-}004 * x + 1.0178\text{E-}004$$

$$R = 0.9991$$

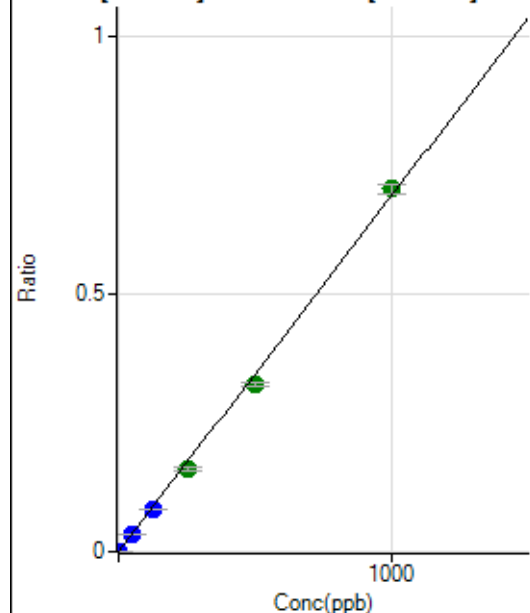
$$DL = 0.02477$$

$$BEC = 0.1429$$

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	152.78	0.0000	P	22.5
2	☐	2.000	1.842	20435.17	0.0013	P	2.6
3	☐	50.000	48.407	516222.54	0.0335	P	1.3
4	☐	125.000	120.438	1304740.44	0.0833	P	1.0
5	☐	250.000	232.003	2607590.29	0.1604	A	3.7
6	☐	500.000	471.015	5202060.58	0.3256	A	2.8
7	☐	1000.000	1019.642	11201526.72	0.7047	A	2.9
8	☐			7190.98	0.0005	P	8.0

$$y = 6.9115E-004 * x + 9.6970E-006$$

$$R = 0.9992$$

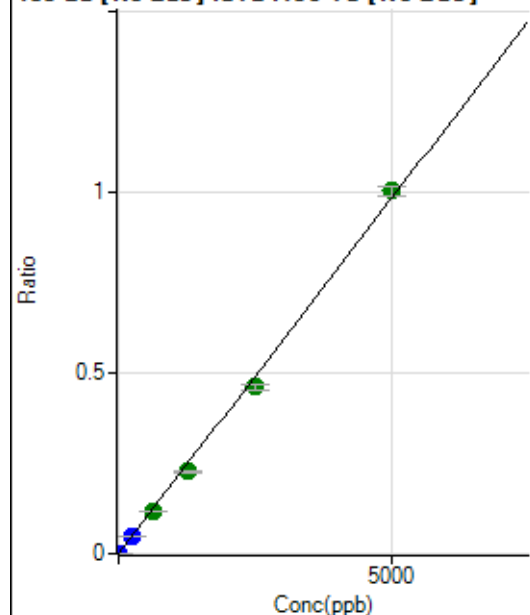
$$DL = 0.009472$$

$$BEC = 0.01403$$

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	44.45	0.0000	P	46.6
2	☐	10.000	8.879	27865.53	0.0017	P	5.7
3	☐	250.000	237.188	719529.30	0.0466	P	0.4
4	☐	625.000	592.326	1825433.66	0.1165	A	2.3
5	☐	1250.000	1154.080	3690350.90	0.2270	A	3.9
6	☐	2500.000	2343.051	7361698.69	0.4608	A	3.7
7	☐	5000.000	5107.182	15963050.18	1.0044	A	2.5
8	☐			6779.69	0.0004	P	6.2

$$y = 1.9666E-004 * x + 2.8093E-006$$

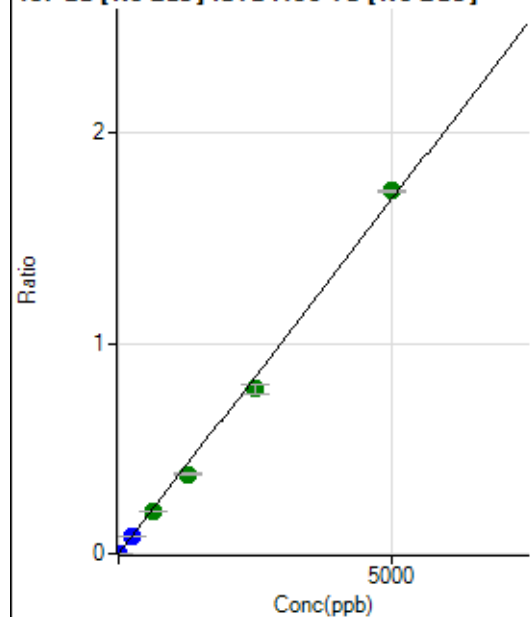
$$R = 0.9991$$

$$DL = 0.01995$$

$$BEC = 0.01429$$

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	69.45	0.0000	P	18.4
2	☐	10.000	8.924	47958.01	0.0030	P	1.9
3	☐	250.000	239.861	1246033.37	0.0808	P	1.1
4	☐	625.000	595.227	3140689.55	0.2005	A	3.7
5	☐	1250.000	1124.367	6156796.06	0.3787	A	4.3
6	☐	2500.000	2324.997	12505676.76	0.7830	A	5.4
7	☐	5000.000	5123.140	27429170.06	1.7254	A	0.5
8	☐			11819.38	0.0007	P	2.1

$$y = 3.3678E-004 * x + 4.4042E-006$$

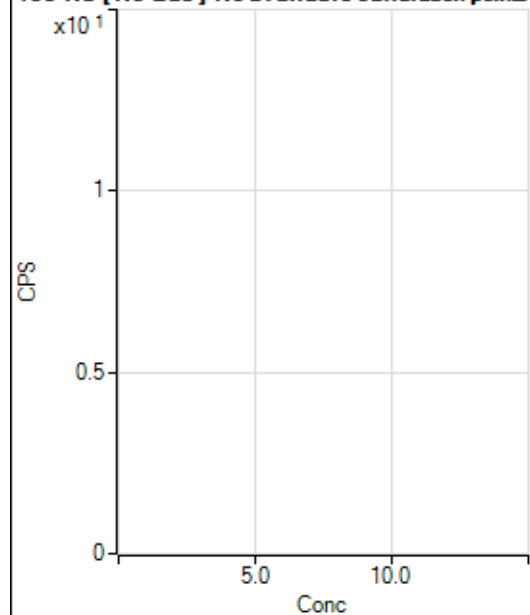
$$R = 0.9988$$

$$DL = 0.007205$$

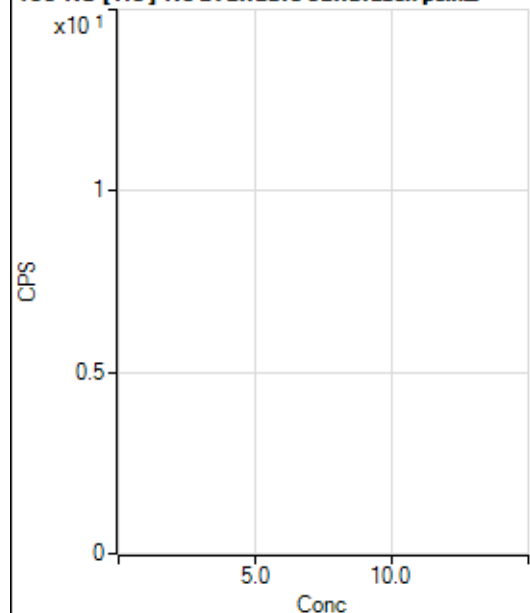
$$BEC = 0.01308$$

Weight: <None>

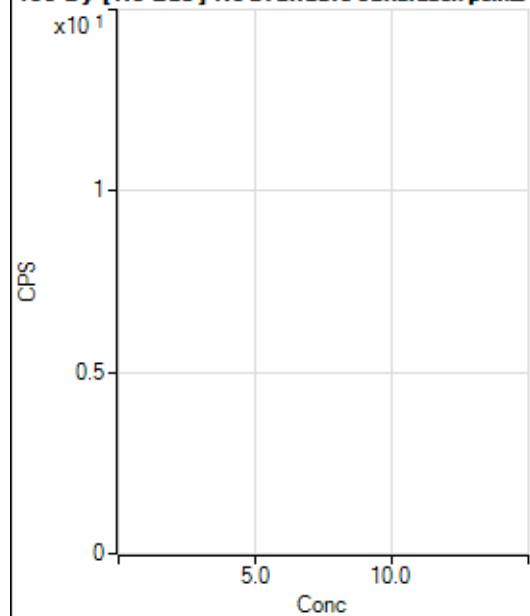
Min Conc: 0

150 Nd [No Gas] No available calibration points

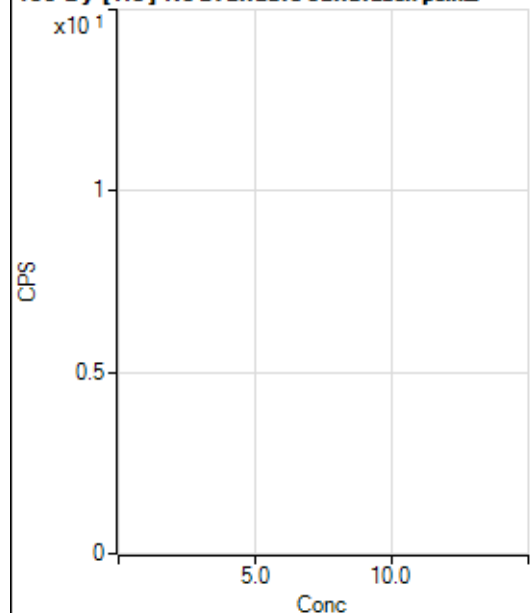
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			24.45		P	83.3
3	☐			55.56		P	18.3
4	☐			153.34		P	4.3
5	☐			266.68		P	7.5
6	☐			571.13		P	18.1
7	☐			1131.18		P	11.4
8	☐			142.23		P	17.7

150 Nd [He] No available calibration points

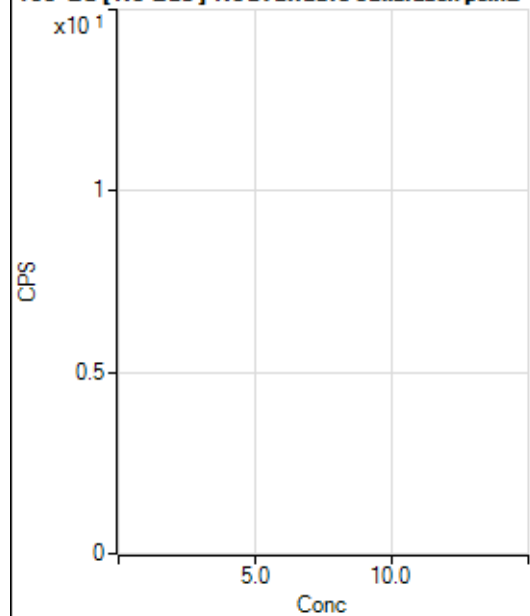
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			5.55		P	69.3
3	☐			5.55		P	69.3
4	☐			10.00		P	33.3
5	☐			11.11		P	45.8
6	☐			33.33		P	20.0
7	☐			66.67		P	20.0
8	☐			26.67		P	21.7

156 Dy [No Gas] No available calibration points

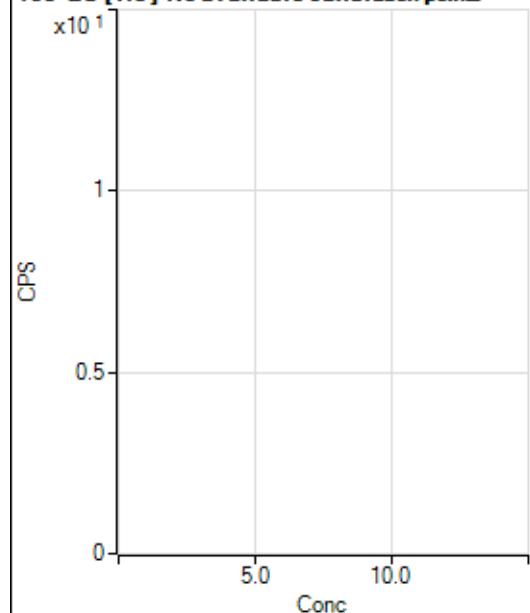
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.55		P	68.6
2	☐			19.44		P	65.5
3	☐			50.00		P	28.9
4	☐			83.34		P	20.0
5	☐			200.01		P	27.3
6	☐			361.13		P	21.3
7	☐			780.60		P	11.8
8	☐			1427.90		P	7.9

156 Dy [He] No available calibration points

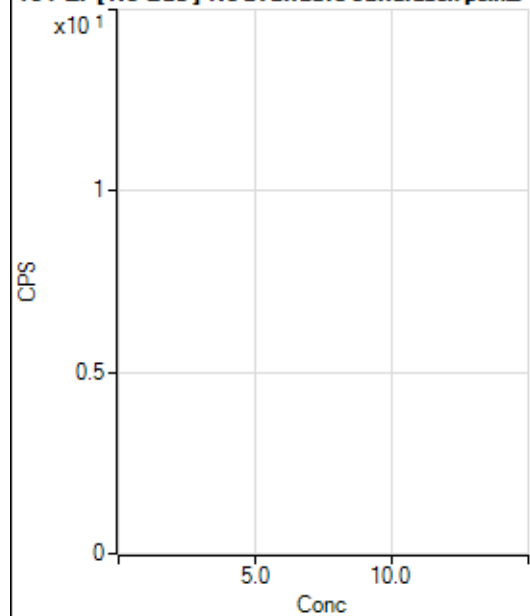
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.2
2	☐			11.11		P	45.8
3	☐			13.33		P	66.2
4	☐			33.33		P	45.8
5	☐			65.56		P	38.2
6	☐			107.78		P	3.6
7	☐			212.23		P	18.4
8	☐			375.57		P	9.9

160 Gd [No Gas] Noavailable calibration poin_

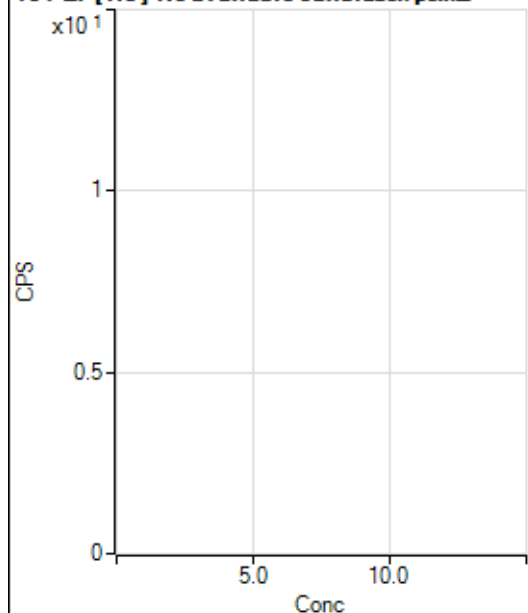
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.00		P	40.1
2	☐			94.45		P	5.1
3	☐			130.56		P	24.2
4	☐			158.34		P	21.1
5	☐			205.56		P	47.0
6	☐			369.46		P	10.2
7	☐			627.81		P	15.6
8	☐			958.40		P	9.0

160 Gd [He] No available calibration points

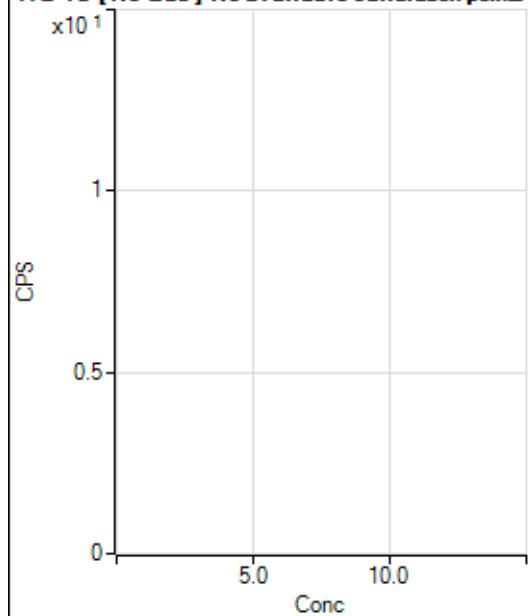
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			104.44		P	14.4
2	☐			86.67		P	16.8
3	☐			82.22		P	22.3
4	☐			92.22		P	5.5
5	☐			123.34		P	4.7
6	☐			173.34		P	12.0
7	☐			283.34		P	7.1
8	☐			464.46		P	2.9

164 Er [No Gas] No available calibration points

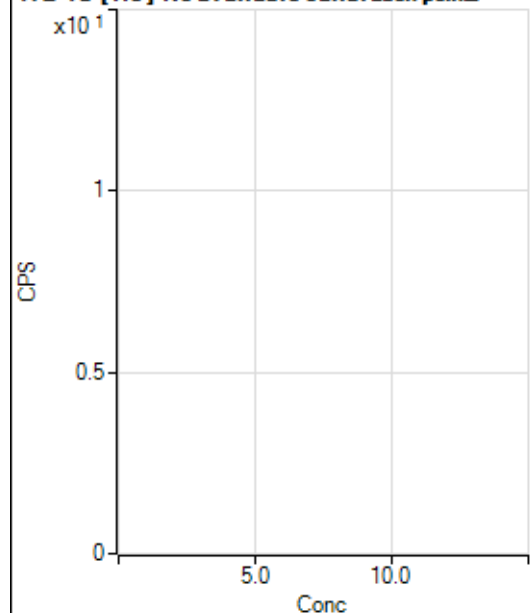
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	16.7
2	☐			102.78		P	12.4
3	☐			105.56		P	12.1
4	☐			144.45		P	14.5
5	☐			158.34		P	9.1
6	☐			219.45		P	21.6
7	☐			327.79		P	3.9
8	☐			208.34		P	17.4

164 Er [He] No available calibration points

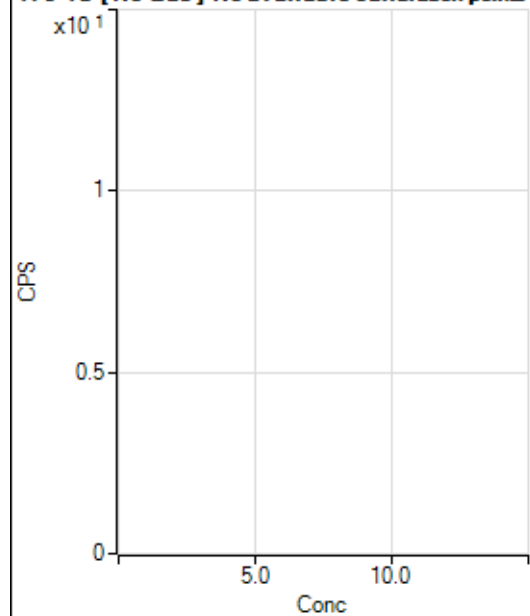
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.66		P	15.7
2	☐			55.56		P	9.2
3	☐			37.78		P	33.4
4	☐			37.78		P	20.4
5	☐			61.11		P	13.7
6	☐			60.00		P	24.2
7	☐			86.67		P	13.9
8	☐			50.00		P	35.3

172 Yb [No Gas] No available calibration points

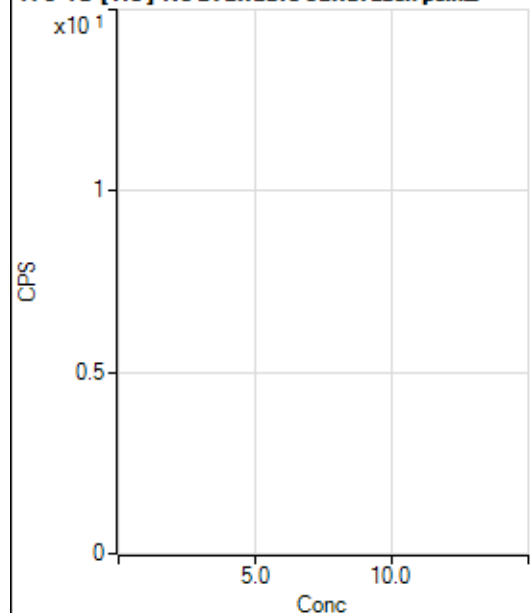
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	60.3
2	☐			91.67		P	39.6
3	☐			105.56		P	18.2
4	☐			105.56		P	27.7
5	☐			100.00		P	25.0
6	☐			141.67		P	15.6
7	☐			205.56		P	36.3
8	☐			288.90		P	20.9

172 Yb [He] No available calibration points

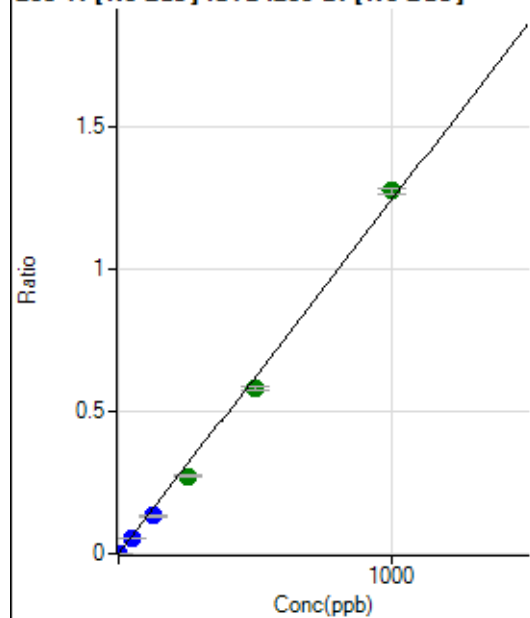
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	21.7
2	☐			35.18		P	39.7
3	☐			18.52		P	45.8
4	☐			40.74		P	63.0
5	☐			51.85		P	22.3
6	☐			72.22		P	48.0
7	☐			83.33		P	29.1
8	☐			83.34		P	17.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2347.49		P	3.9
2	☐			2089.12		P	7.5
3	☐			4281.40		P	3.5
4	☐			7107.70		P	4.4
5	☐			11983.52		P	3.2
6	☐			23363.01		P	2.6
7	☐			46644.58		P	1.1
8	☐			2325.27		P	6.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6831.51		P	4.3
2	☐			6764.81		P	4.5
3	☐			7365.15		P	4.5
4	☐			8543.66		P	5.7
5	☐			10413.56		P	1.9
6	☐			14098.56		P	3.1
7	☐			23654.83		P	3.1
8	☐			6974.20		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	891.72	0.0001	P	19.8
2	☐	1.000	0.855	10176.51	0.0012	P	5.1
3	☐	50.000	44.942	468875.86	0.0560	P	3.5
4	☐	125.000	106.791	1164229.89	0.1329	P	2.5
5	☐	250.000	219.871	2404692.91	0.2734	A	4.0
6	☐	500.000	467.365	5029884.14	0.5811	A	3.3
7	☐	1000.000	1026.379	10535045.29	1.2760	A	1.9
8	☐			3761.76	0.0005	P	5.2

$$y = 0.0012 * x + 1.0317E-004$$

$$R = 0.9987$$

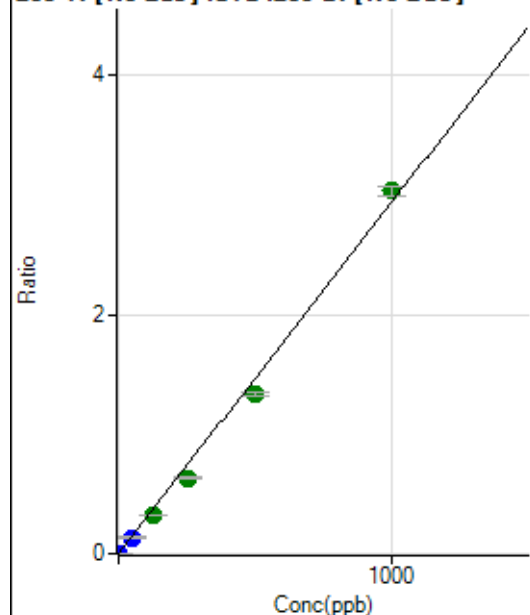
$$DL = 0.04942$$

$$BEC = 0.083$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2144.69	0.0002	P	7.9
2	☐	1.000	0.846	23864.34	0.0027	P	3.1
3	☐	50.000	45.870	1131012.27	0.1350	P	3.7
4	☐	125.000	109.823	2830243.60	0.3230	A	3.0
5	☐	250.000	216.156	5590914.06	0.6355	A	2.5
6	☐	500.000	455.241	11583959.03	1.3380	A	2.5
7	☐	1000.000	1032.944	25062730.08	3.0357	A	2.9
8	☐			8967.23	0.0012	P	7.8

$$y = 0.0029 * x + 2.4814E-004$$

$$R = 0.9979$$

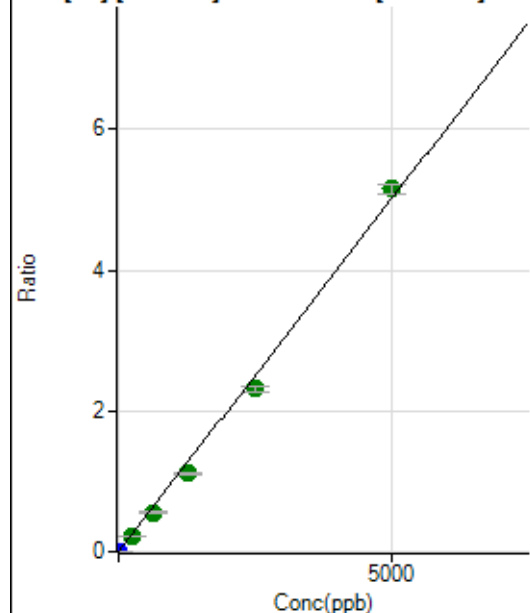
$$DL = 0.02007$$

$$BEC = 0.08444$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1038.95	0.0001	P	6.1
2	☐	1.000	0.878	8719.78	0.0010	P	5.1
3	☐	250.000	227.708	1913448.47	0.2284	A	2.3
4	☐	625.000	556.482	4890056.01	0.5580	A	1.5
5	☐	1250.000	1104.363	9742011.79	1.1072	A	1.4
6	☐	2500.000	2305.950	20008855.77	2.3117	A	3.4
7	☐	5000.000	5143.114	42567497.25	5.1557	A	2.5
8	☐			8627.11	0.0012	P	4.1

$$y = 0.0010 * x + 1.2029E-004$$

$$R = 0.9984$$

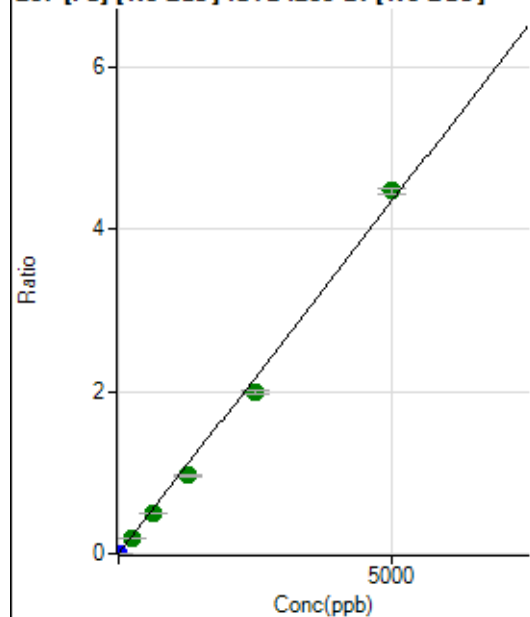
$$DL = 0.02201$$

$$BEC = 0.12$$

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	953.76	0.0001	P	2.2
2	☐	1.000	0.859	7472.65	0.0009	P	3.9
3	☐	250.000	222.503	1620387.42	0.1935	A	3.4
4	☐	625.000	562.941	4288532.50	0.4893	A	1.0
5	☐	1250.000	1111.216	8499618.71	0.9657	A	1.9
6	☐	2500.000	2285.590	17199916.94	1.9862	A	2.6
7	☐	5000.000	5151.033	36959521.19	4.4763	A	1.7
8	☐			7266.99	0.0010	P	4.1

$$y = 8.6898E-004 * x + 1.1040E-004$$

$$R = 0.9983$$

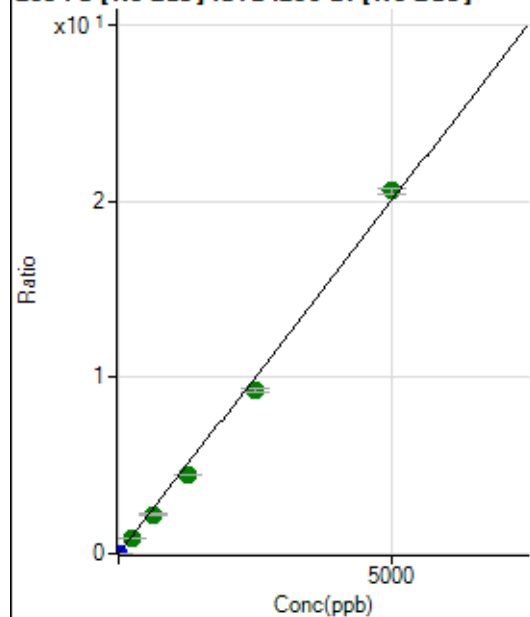
$$DL = 0.008357$$

$$BEC = 0.127$$

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	4289.25	0.0005	P	2.5
2	☐	1.000	0.860	34401.85	0.0039	P	3.3
3	☐	250.000	226.052	7594050.56	0.9064	A	2.2
4	☐	625.000	557.166	19574692.91	2.2333	A	0.7
5	☐	1250.000	1115.265	39339626.11	4.4698	A	1.7
6	☐	2500.000	2307.420	80067150.05	9.2473	A	2.3
7	☐	5000.000	5139.650	170073007.5	20.5973	A	1.4
8	☐			33413.63	0.0045	P	3.8

$$y = 0.0040 * x + 4.9644E-004$$

$$R = 0.9985$$

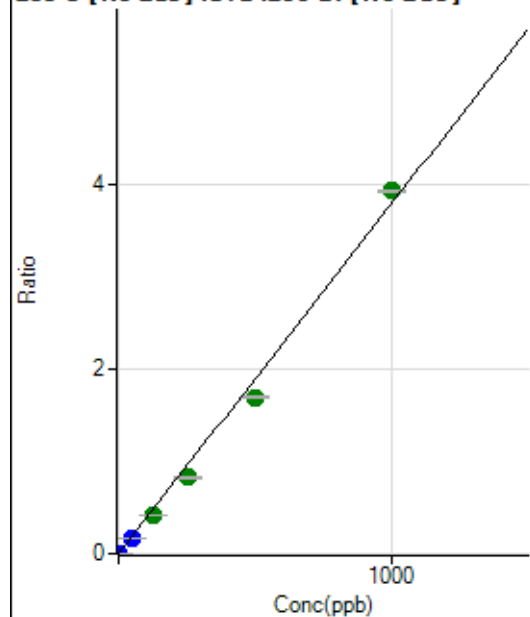
$$DL = 0.009379$$

$$BEC = 0.1239$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	66.67	0.0000	P	33.7
2	☐	1.000	0.814	26971.13	0.0031	P	1.6
3	☐	50.000	43.980	1395763.30	0.1665	P	0.9
4	☐	125.000	109.043	3618722.95	0.4129	A	2.7
5	☐	250.000	218.784	7288135.93	0.8285	A	3.4
6	☐	500.000	446.704	14649185.74	1.6916	A	1.6
7	☐	1000.000	1036.748	32418887.53	3.9259	A	0.6
8	☐			2647.57	0.0004	P	1.0

$$y = 0.0038 * x + 7.7342E-006$$

$$R = 0.9975$$

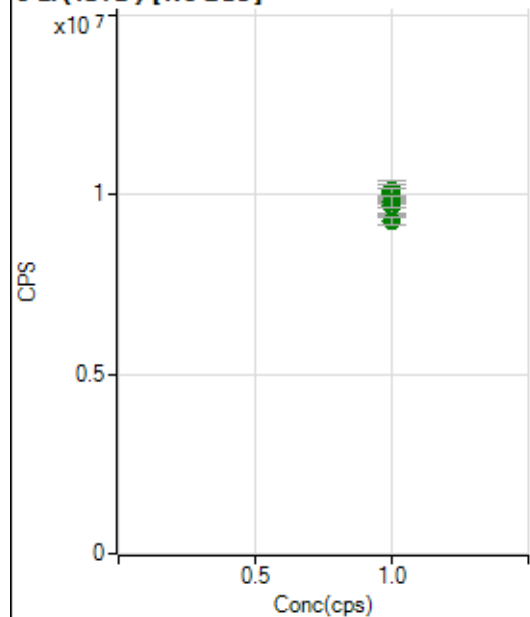
$$DL = 0.002064$$

$$BEC = 0.002042$$

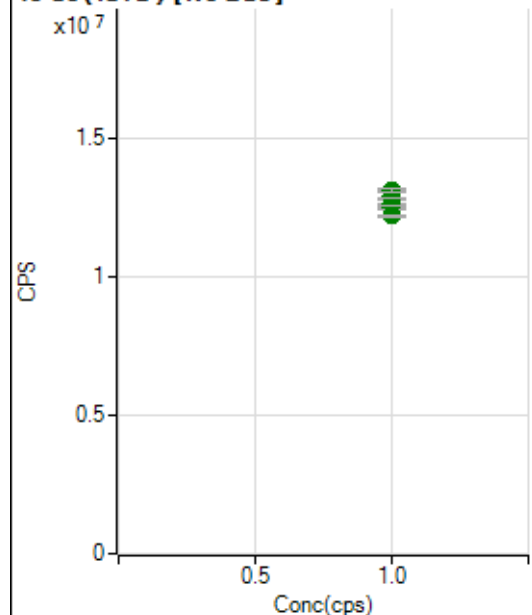
Weight: <None>

Min Conc: 0

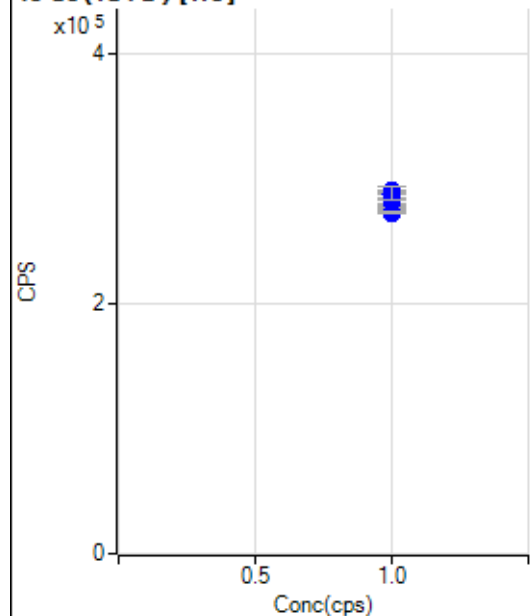
6 Li (ISTD) [No Gas]



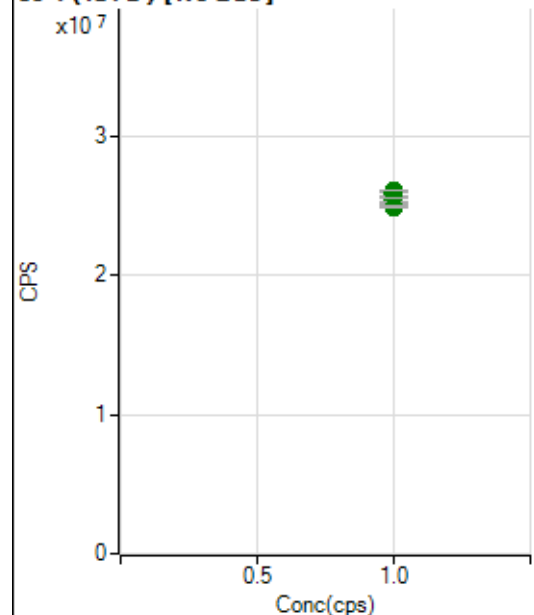
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9798899.11		A	0.4
2	☐	1.000		10100519.74		A	6.4
3	☐	1.000		9678476.14		A	4.3
4	☐	1.000		10115578.69		A	3.9
5	☐	1.000		10049034.20		A	3.2
6	☐	1.000		9685616.08		A	5.4
7	☐	1.000		9800140.52		A	3.5
8	☐	1.000		9292396.38		A	2.3

45 Sc (ISTD) [No Gas]

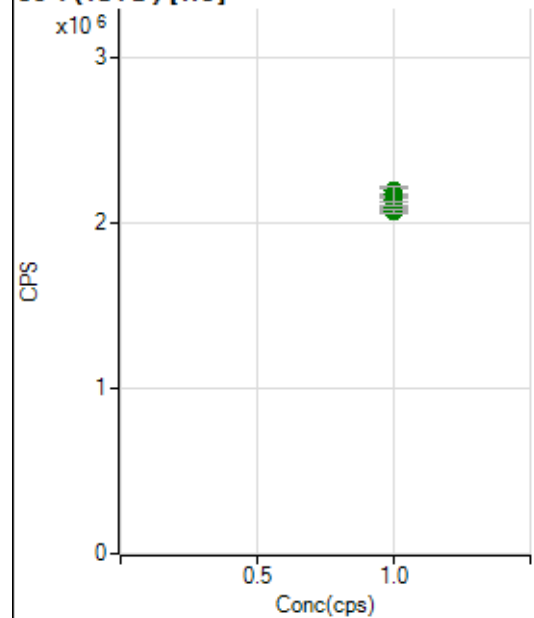
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12934141.61		A	2.5
2	☐	1.000		13100223.69		A	0.9
3	☐	1.000		12529726.48		A	1.6
4	☐	1.000		12668773.14		A	1.3
5	☐	1.000		12634088.84		A	2.4
6	☐	1.000		12642214.81		A	3.4
7	☐	1.000		12477643.84		A	1.2
8	☐	1.000		12201061.76		A	0.7

45 Sc (ISTD) [He]

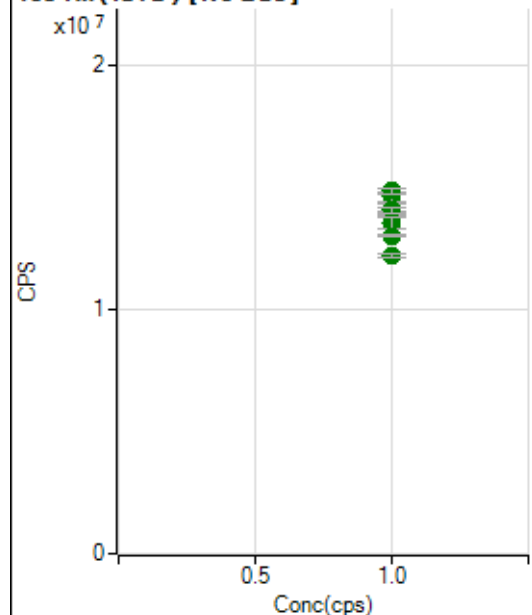
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		289864.85		P	0.2
2	☐	1.000		287687.82		P	0.5
3	☐	1.000		277185.18		P	1.7
4	☐	1.000		278684.26		P	0.3
5	☐	1.000		275278.58		P	0.7
6	☐	1.000		272665.93		P	0.6
7	☐	1.000		283178.86		P	0.5
8	☐	1.000		287684.94		P	3.5

89 Y (ISTD) [No Gas]

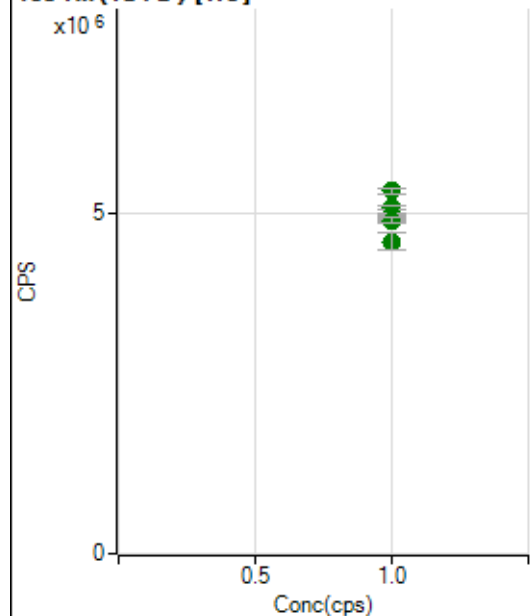
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		26112237.11		A	0.5
2	☐	1.000		25954022.67		A	1.4
3	☐	1.000		25329150.46		A	2.6
4	☐	1.000		25415918.51		A	3.0
5	☐	1.000		25912987.67		A	1.4
6	☐	1.000		25372038.51		A	1.6
7	☐	1.000		25508932.68		A	1.2
8	☐	1.000		24945134.35		A	0.4

89 Y (ISTD) [He]

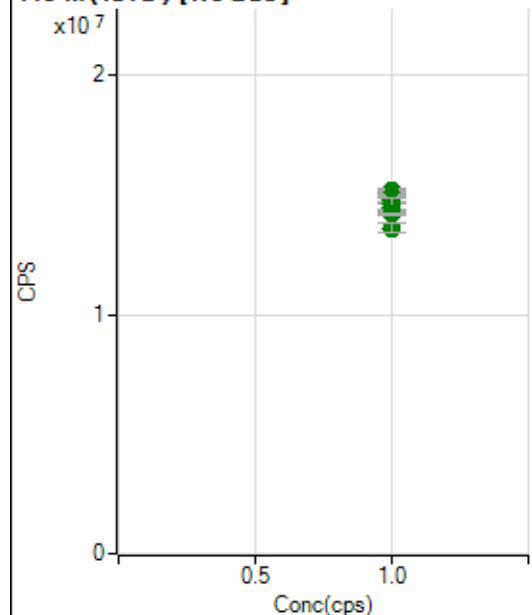
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2191060.68		A	1.3
2	☐	1.000		2156153.60		A	0.7
3	☐	1.000		2079768.28		A	0.7
4	☐	1.000		2084224.33		A	2.1
5	☐	1.000		2086974.17		A	0.9
6	☐	1.000		2071671.62		A	1.1
7	☐	1.000		2133894.21		A	3.4
8	☐	1.000		2171974.03		A	4.0

103 Rh (ISTD) [No Gas]

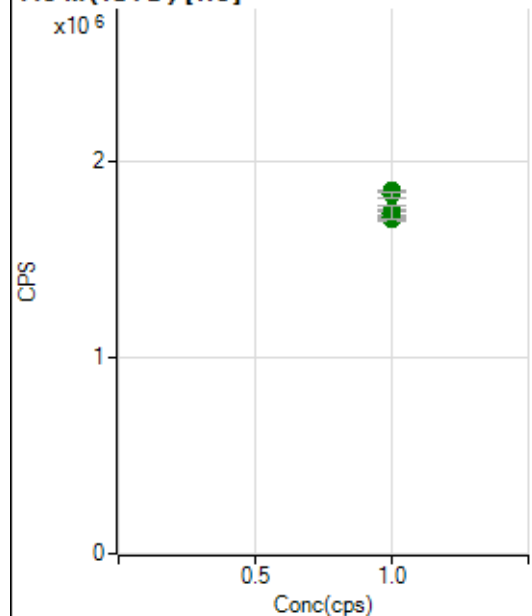
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14631298.07		A	2.6
2	☐	1.000		14865669.95		A	1.8
3	☐	1.000		14133549.80		A	1.2
4	☐	1.000		14092164.38		A	3.0
5	☐	1.000		14089129.13		A	1.5
6	☐	1.000		13545532.86		A	3.4
7	☐	1.000		13031301.77		A	0.6
8	☐	1.000		12227261.56		A	1.2

103 Rh (ISTD) [He]

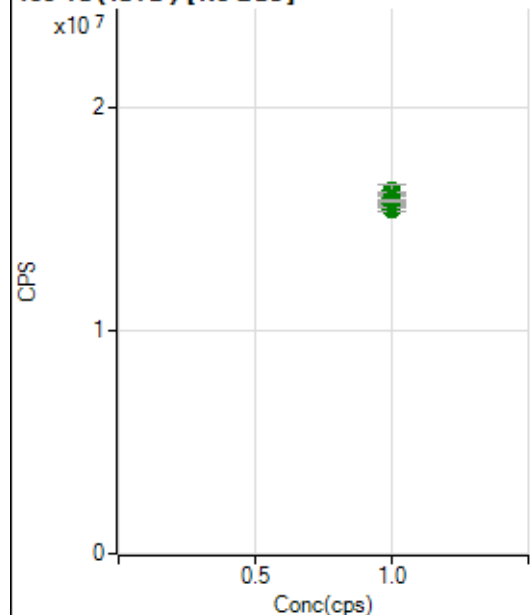
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5336196.80		A	1.7
2	☐	1.000		5088456.24		A	1.1
3	☐	1.000		4926485.31		A	0.9
4	☐	1.000		4968328.68		A	3.7
5	☐	1.000		4989390.45		A	0.8
6	☐	1.000		4897074.82		A	1.1
7	☐	1.000		4905120.21		A	1.8
8	☐	1.000		4595828.20		A	5.3

115 In (ISTD) [No Gas]

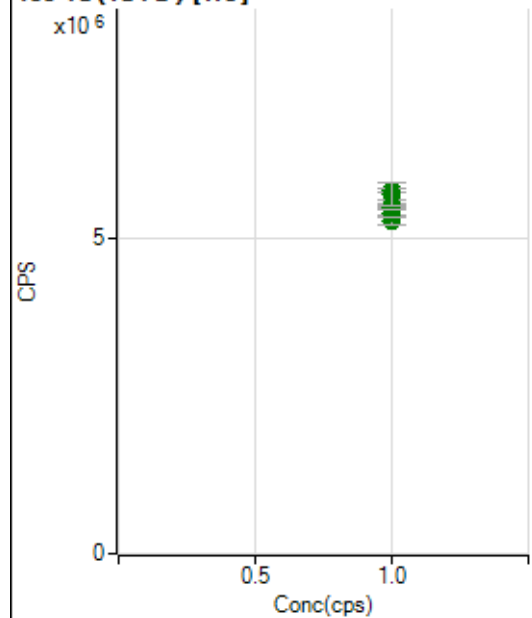
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15172325.26		A	1.1
2	☐	1.000		15048497.99		A	2.1
3	☐	1.000		14482077.66		A	2.8
4	☐	1.000		14956269.80		A	0.9
5	☐	1.000		14799696.22		A	2.4
6	☐	1.000		14662716.73		A	3.3
7	☐	1.000		14207678.38		A	0.4
8	☐	1.000		13630246.59		A	2.8

115 In (ISTD) [He]

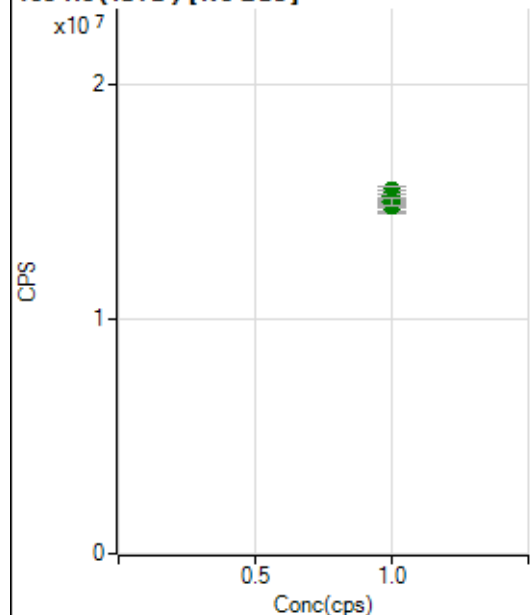
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1845412.80		A	0.9
2	☐	1.000		1824552.42		A	1.9
3	☐	1.000		1745119.27		A	0.2
4	☐	1.000		1705817.10		A	0.5
5	☐	1.000		1730189.48		A	2.2
6	☐	1.000		1707582.40		A	1.5
7	☐	1.000		1731974.09		A	1.4
8	☐	1.000		1734854.22		A	4.0

159 Tb (ISTD) [No Gas]

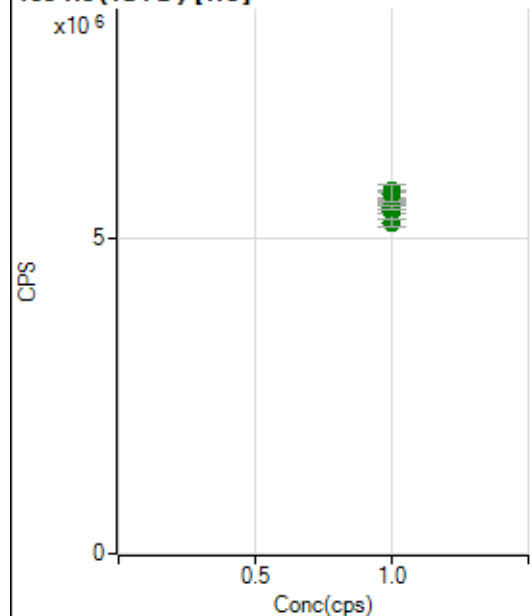
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15773263.51		A	1.6
2	☐	1.000		15939381.15		A	2.6
3	☐	1.000		15425374.08		A	1.2
4	☐	1.000		15672930.74		A	1.8
5	☐	1.000		16273199.62		A	3.1
6	☐	1.000		15986211.15		A	2.7
7	☐	1.000		15898244.48		A	1.9
8	☐	1.000		15838842.82		A	0.6

159 Tb (ISTD) [He]

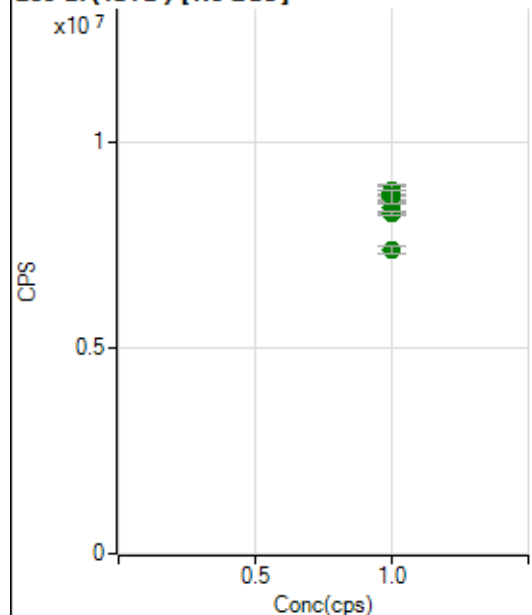
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5495889.33		A	4.4
2	☐	1.000		5495901.45		A	0.4
3	☐	1.000		5273226.38		A	2.4
4	☐	1.000		5402201.17		A	2.2
5	☐	1.000		5500518.39		A	1.4
6	☐	1.000		5617558.63		A	0.2
7	☐	1.000		5754258.53		A	1.0
8	☐	1.000		5703010.54		A	6.1

165 Ho (ISTD) [No Gas]

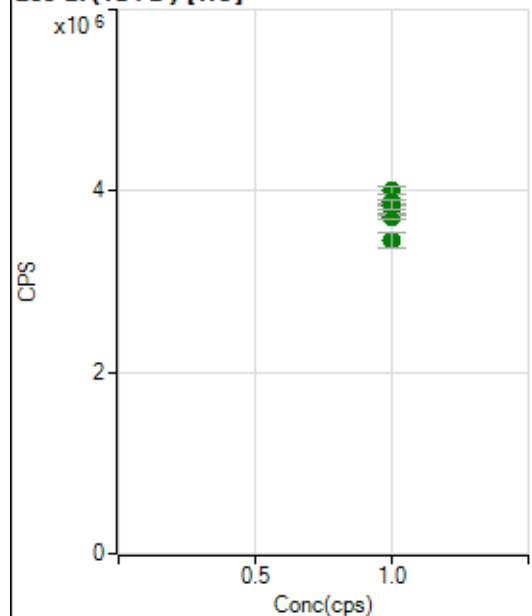
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14844377.59		A	3.7
2	☐	1.000		14823058.32		A	0.5
3	☐	1.000		14769898.25		A	3.5
4	☐	1.000		15436048.26		A	2.1
5	☐	1.000		15225385.41		A	2.6
6	☐	1.000		15212971.17		A	1.7
7	☐	1.000		14833506.76		A	1.7
8	☐	1.000		14948183.84		A	2.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5492428.25		A	3.6
2	☐	1.000		5475434.23		A	2.8
3	☐	1.000		5231516.69		A	2.1
4	☐	1.000		5411239.30		A	3.6
5	☐	1.000		5483524.81		A	1.5
6	☐	1.000		5688639.67		A	2.0
7	☐	1.000		5748450.75		A	0.7
8	☐	1.000		5710762.52		A	4.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8639851.40		A	1.7
2	☐	1.000		8729925.98		A	3.8
3	☐	1.000		8382077.52		A	3.3
4	☐	1.000		8765562.44		A	1.5
5	☐	1.000		8801374.73		A	3.0
6	☐	1.000		8662334.18		A	3.5
7	☐	1.000		8257812.86		A	1.2
8	☐	1.000		7365562.32		A	2.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4000110.71		A	2.1
2	☐	1.000		3879871.23		A	0.9
3	☐	1.000		3719400.81		A	1.2
4	☐	1.000		3871914.46		A	2.0
5	☐	1.000		3795999.32		A	2.5
6	☐	1.000		3834239.39		A	1.8
7	☐	1.000		3842288.17		A	2.7
8	☐	1.000		3457042.24		A	4.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8041122 MS.b

Acq. Date-Time 2022-04-11 14:03:56

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		27260	272597.44			0.624	5.000
24		178992	1789920.35			1.432	5.000
25		24451	244510.20			0.681	5.000
26		28314	283142.30			0.961	5.000
59		40630	406302.38			0.230	5.000
113		17284	172840.83			0.862	5.000
115		49494	494943.00			0.808	5.000
206		18215	182150.29			0.967	5.000
207		15174	151736.16			0.982	5.000
208		38007	380074.10			0.596	5.000
220		1	5.60			23.111	

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

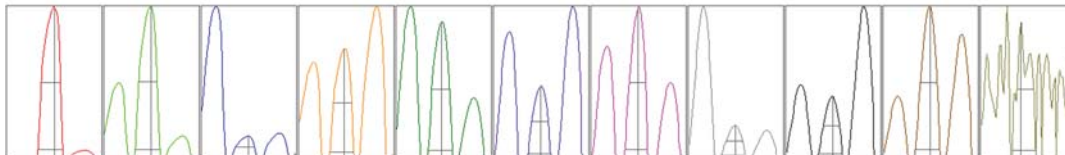
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	27367	27148	27284	27463	27037
24	179700	179010	182760	177607	175883
25	24381	24426	24563	24658	24227
26	28241	28258	28342	28740	27990
59	40632	40570	40644	40775	40530
113	17529	17320	17166	17219	17186
115	49189	49149	50142	49556	49436
206	17911	18273	18223	18340	18328
207	14962	15217	15227	15359	15103
208	37782	37989	38165	38301	37800

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	47636.44	9.05	8.90 - 9.10	
24	323819.79	24.00	23.90 - 24.10	
25	44560.62	25.00	24.90 - 25.10	
26	50397.15	25.95	25.90 - 26.10	
59	76771.58	58.95	58.90 - 59.10	
113	35076.51	113.00	112.90 - 113.10	
115	100687.20	115.00	114.90 - 115.10	
206	36143.51	206.00	205.90 - 206.10	
207	30234.93	207.00	206.90 - 207.10	
208	74232.72	208.00	207.90 - 208.10	
220	0.85	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.780	0.900	
24	0.58	0.781	0.900	
25	0.59	0.761	0.900	
26	0.59	0.743	0.900	
59	0.56	0.769	0.900	
113	0.52	0.700	0.900	
115	0.51	0.719	0.900	
206	0.51	0.757	0.900	
207	0.51	0.759	0.900	
208	0.52	0.775	0.900	
220	0.52	0.739		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	8.5 V	Deflect	14.6 V
Extract 2	-135.0 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 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		6284	62835.50			0.837	
89		21090	210898.95			0.676	
205		36538	365378.74			0.726	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6268	6235	6357	6318	6239
89	21195	21113	21150	21151	20840
205	36499	36352	36867	36742	36229

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-135.0 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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