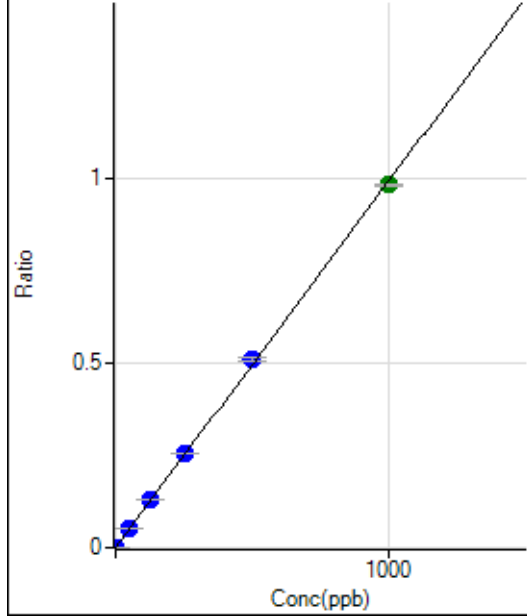


Calibration for 035SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7080124-MS.b\
 Analysis File: P7080124-MS.batch.bin
 DA Date-Time: 2024-08-01 17:21:56
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-08-01 15:28:59
2	005CALS.d	S02	2024-08-01 15:32:17
3	006CALS.d	S03	2024-08-01 15:35:36
4	007CALS.d	S04	2024-08-01 15:38:39
5	008CALS.d	S05	2024-08-01 15:41:35
6	009CALS.d	S06	2024-08-01 15:44:23
7	010CALS.d	S07	2024-08-01 15:47:11
8	011CALS.d	S08	2024-08-01 15:49:56

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	26.4
2	☐	1.000	0.965	1512.31	0.0010	P	4.7
3	☐	50.000	52.181	80099.33	0.0518	P	1.1
4	☐	125.000	129.370	196868.81	0.1283	P	0.4
5	☐	250.000	258.088	394076.03	0.2558	P	0.4
6	☐	500.000	513.684	789559.03	0.5091	P	1.4
7	☐	1000.000	990.481	1508126.66	0.9817	A	0.5
8	☐			136.67	0.0001	P	29.3

$$y = 9.9109E-004 * x + 3.6818E-005$$

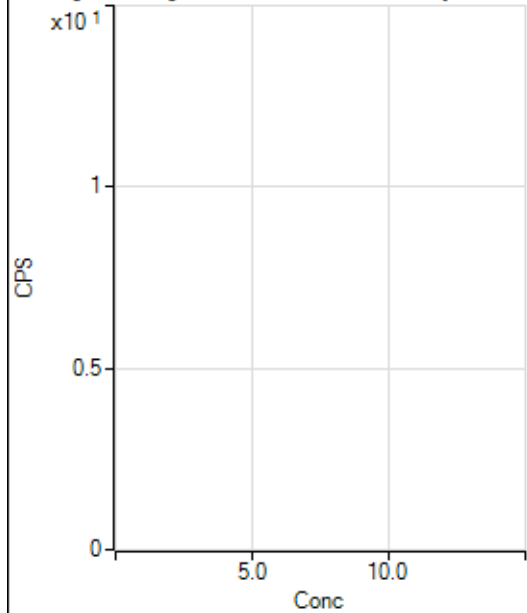
$$R = 0.9998$$

$$DL = 0.0294$$

$$BEC = 0.03715$$

Weight: <None>

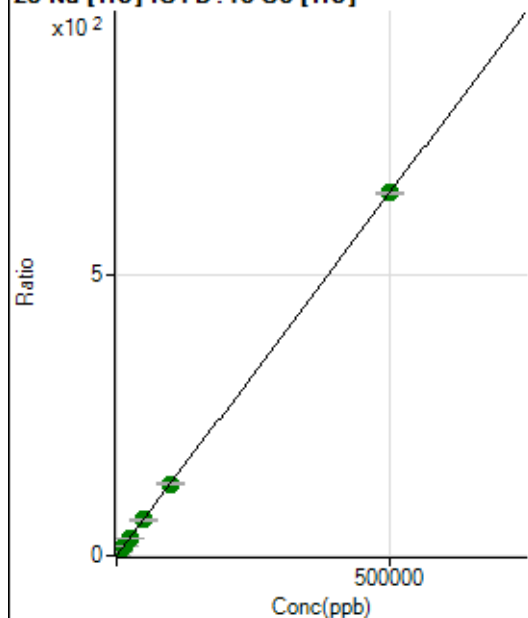
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16471.09	0.0478	P	0.5
2	☐	500.000	473.412	229168.09	0.6609	P	0.6
3	☐	5000.000	4977.636	2217588.30	6.4939	A	1.5
4	☐	12500.000	12320.979	5366258.18	16.0036	A	0.8
5	☐	25000.000	24540.547	10752899.01	31.8281	A	1.7
6	☐	50000.000	49087.142	21318459.40	63.6161	A	1.3
7	☐	100000.00	99334.986	43589651.01	128.6875	A	0.4
8	☐	500000.00	500251.98	201518337.0	647.8784	A	0.5

$$y = 0.0013 * x + 0.0478$$

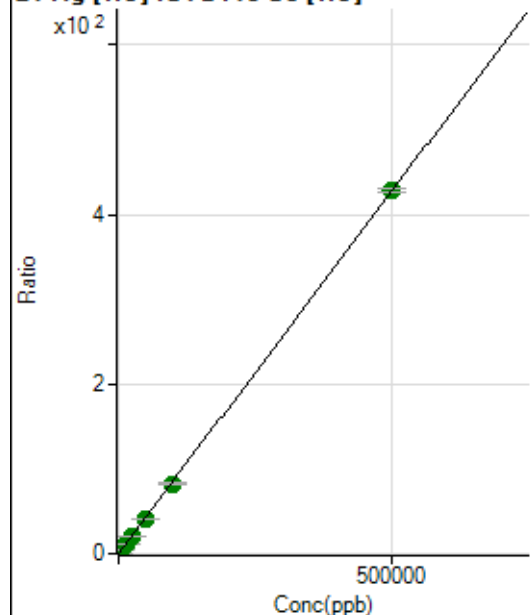
$$R = 1.0000$$

$$DL = 0.5452$$

$$BEC = 36.94$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	754.47	0.0022	P	5.5
2	☐	500.000	465.324	138535.79	0.3995	P	0.6
3	☐	5000.000	4905.428	1431143.70	4.1908	A	0.9
4	☐	12500.000	12123.454	3471863.94	10.3541	A	0.3
5	☐	25000.000	24268.115	7001562.12	20.7242	A	1.7
6	☐	50000.000	48093.570	13762236.32	41.0682	A	1.4
7	☐	100000.00	96713.663	27973039.31	82.5838	A	0.8
8	☐	500000.00	500894.89	133042944.6	427.7050	A	1.2

$$y = 8.5388\text{E-}004 * x + 0.0022$$

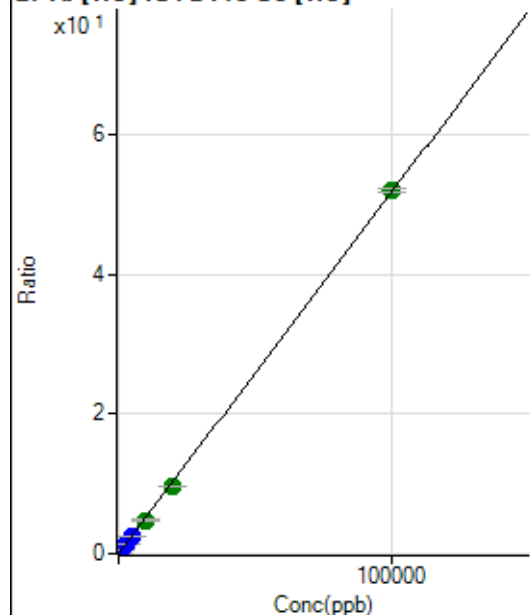
$$R = 1.0000$$

$$DL = 0.424$$

$$BEC = 2.567$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.89	0.0004	P	1.6
2	☐	20.000	17.047	3207.03	0.0092	P	2.0
3	☐	1000.000	978.850	173023.99	0.5067	P	1.0
4	☐	2500.000	2401.438	416588.97	1.2424	P	0.3
5	☐	5000.000	4750.057	830125.74	2.4570	P	0.8
6	☐	10000.000	9187.779	1592289.14	4.7521	A	3.1
7	☐	20000.000	18598.818	3258269.81	9.6193	A	0.7
8	☐	100000.00	100376.63	16147157.40	51.9127	A	1.0

$$y = 5.1717\text{E-}004 * x + 4.3247\text{E-}004$$

$$R = 0.9999$$

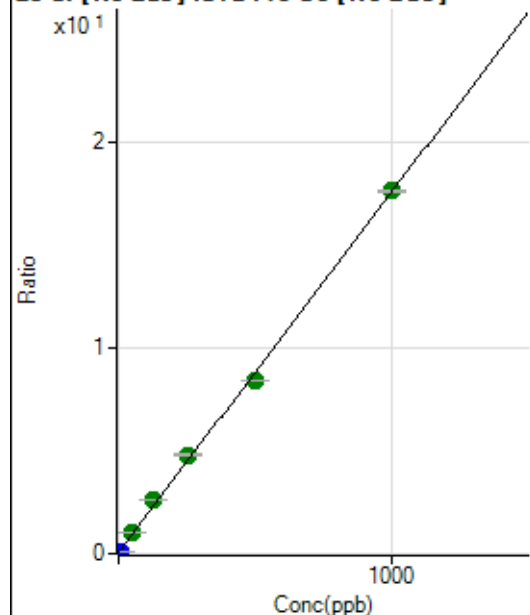
$$DL = 0.04107$$

$$BEC = 0.8362$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	301350.21	0.0619	P	0.5
2	☐	10.000	0.243	322201.05	0.0662	P	1.0
3	☐	50.000	56.551	5098356.70	1.0526	A	1.3
4	☐	125.000	144.201	12234660.79	2.5879	A	1.0
5	☐	250.000	270.796	22614311.33	4.8055	A	1.1
6	☐	500.000	477.353	39730173.02	8.4238	A	0.5
7	☐	1000.000	1003.494	83680839.86	17.6404	A	0.8
8	☐			452073.54	0.1047	P	1.8

$$y = 0.0175 * x + 0.0619$$

$$R = 0.9991$$

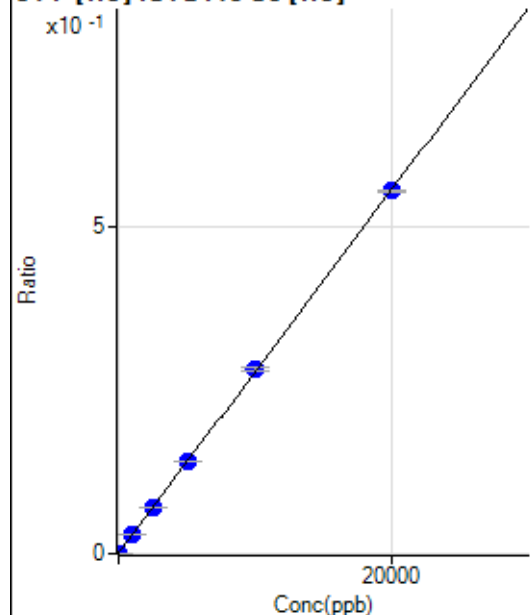
$$DL = 0.05721$$

$$BEC = 3.536$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.019	248.89	0.0007	P	5.1
2	☐	0.000	11.019	463.34	0.0013	P	2.3
3	☐	1000.000	992.192	9778.76	0.0286	P	0.2
4	☐	2500.000	2501.835	23687.31	0.0706	P	2.1
5	☐	5000.000	5021.992	47555.77	0.1408	P	0.9
6	☐	10000.000	10102.420	94533.92	0.2821	P	2.4
7	☐	20000.000	19943.453	188307.36	0.5559	P	0.6
8	☐			301.12	0.0010	P	2.6

$$y = 2.7823E-005 * x + 0.0010$$

$$R = 1.0000$$

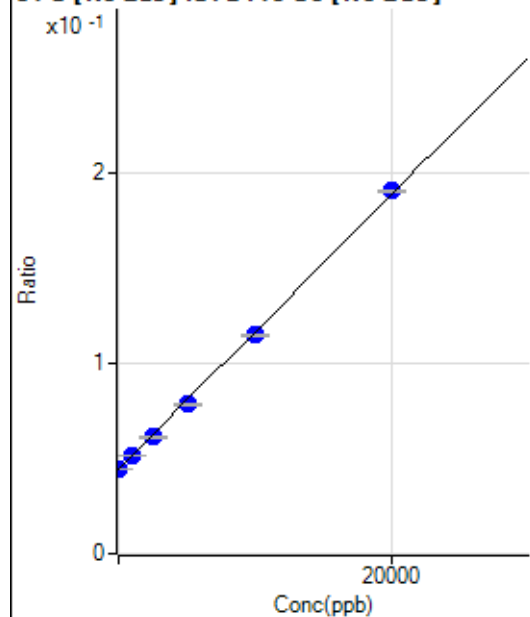
$$DL = 3.646$$

$$BEC = 37$$

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	-18.676	216032.48	0.0444	P	1.0
2	☐	0.000	18.676	217458.31	0.0447	P	1.3
3	☐	1000.000	957.790	249260.06	0.0515	P	0.4
4	☐	2500.000	2305.980	289346.45	0.0612	P	0.5
5	☐	5000.000	4709.617	369776.33	0.0786	P	0.7
6	☐	10000.000	9724.176	541539.41	0.1148	P	0.5
7	☐	20000.000	20236.871	905109.53	0.1908	P	0.7
8	☐			161884.62	0.0375	P	1.5

$$y = 7.2280\text{E-}006 * x + 0.0445$$

$$R = 0.9997$$

$$DL = 217.3$$

$$BEC = 6161$$

Weight: <None>

Min Conc: 0

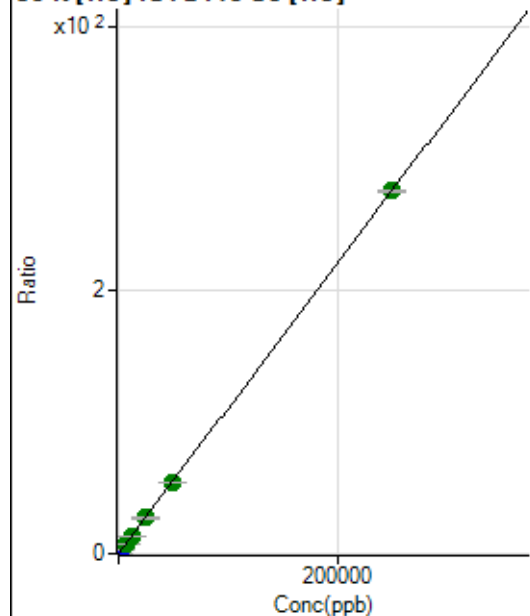
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51590.33	0.1498	P	0.7
2	☐	500.000	483.624	236312.58	0.6815	P	0.5
3	☐	2500.000	2617.837	1033947.71	3.0277	P	0.5
4	☐	6250.000	6076.684	2290310.42	6.8302	A	0.5
5	☐	12500.000	12187.684	4577431.01	13.5483	A	0.6
6	☐	25000.000	24440.330	9054138.41	27.0181	A	1.5
7	☐	50000.000	48858.431	18244479.59	53.8620	A	0.2
8	☐	250000.00	250303.08	85637790.39	275.3186	A	0.3

$$y = 0.0011 * x + 0.1498$$

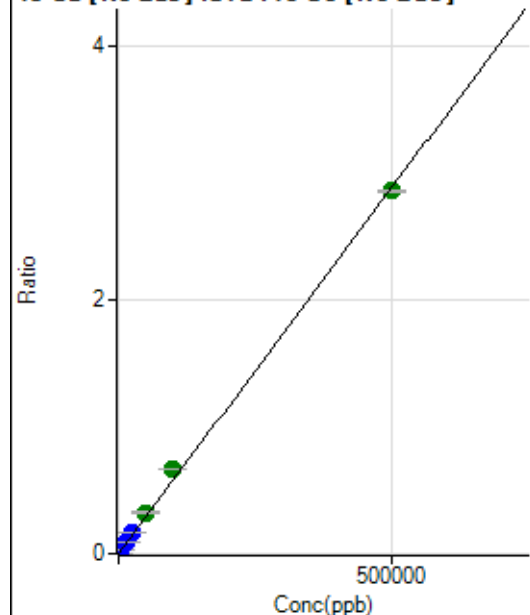
$$R = 1.0000$$

$$DL = 2.763$$

$$BEC = 136.3$$

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	1195.62	0.0002	P	3.1
2	☐	500.000	500.271	15243.28	0.0031	P	1.8
3	☐	5000.000	5957.926	167650.03	0.0346	P	1.4
4	☐	12500.000	14637.528	400309.94	0.0847	P	1.0
5	☐	25000.000	29450.831	800580.52	0.1701	P	0.8
6	☐	50000.000	56408.920	1535587.91	0.3256	A	1.6
7	☐	100000.00	115179.75	3152695.13	0.6646	A	0.3
8	☐	500000.00	496037.59	12356136.76	2.8614	A	0.6

$$y = 5.7680\text{E-}006 * x + 2.4575\text{E-}004$$

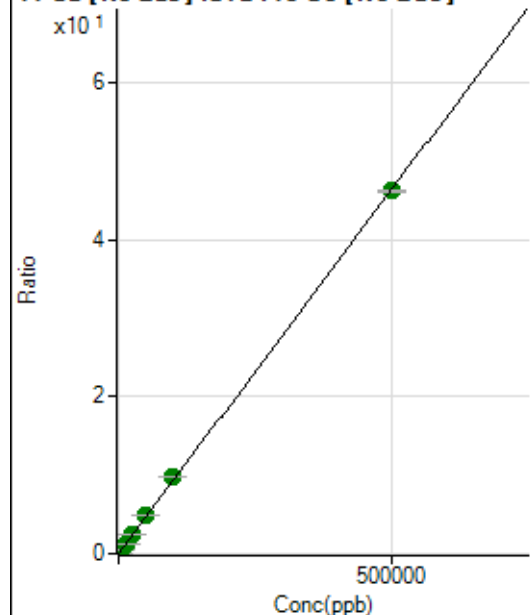
$$R = 0.9995$$

$$DL = 4.001$$

$$BEC = 42.61$$

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	17820.78	0.0037	P	1.1
2	☐	500.000	495.122	241198.98	0.0495	P	1.1
3	☐	5000.000	5319.261	2405612.67	0.4966	A	0.4
4	☐	12500.000	13006.758	5715639.99	1.2090	A	1.3
5	☐	25000.000	26386.591	11524642.74	2.4490	A	1.1
6	☐	50000.000	52614.721	23012705.77	4.8796	A	1.2
7	☐	100000.00	106539.69	46852510.41	9.8769	A	0.5
8	☐	500000.00	498345.40	199438490.3	46.1864	A	0.6

$$y = 9.2672\text{E-}005 * x + 0.0037$$

$$R = 0.9999$$

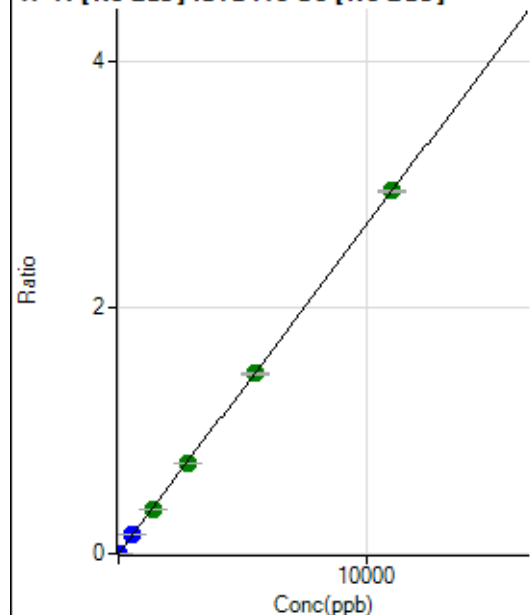
$$DL = 1.252$$

$$BEC = 39.52$$

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	184.45	0.0000	P	15.0
2	☐	5.000	4.721	6324.70	0.0013	P	1.8
3	☐	550.000	563.046	728866.38	0.1505	P	0.6
4	☐	1375.000	1354.915	1711571.38	0.3620	A	1.2
5	☐	2750.000	2731.625	3434790.68	0.7299	A	0.8
6	☐	5500.000	5474.583	6898673.02	1.4627	A	0.7
7	☐	11000.000	11019.160	13966039.52	2.9441	A	0.6
8	☐			1727.90	0.0004	P	9.7

$$y = 2.6718\text{E-}004 * x + 3.7904\text{E-}005$$

$$R = 1.0000$$

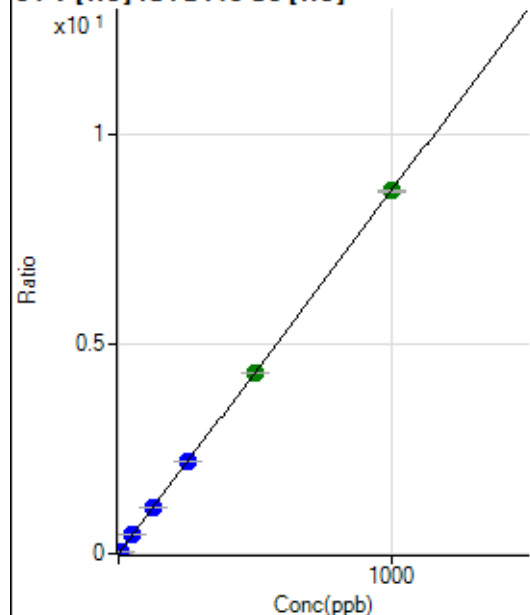
$$DL = 0.06383$$

$$BEC = 0.1419$$

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	11.11	0.0000	P	46.2
2	☐	5.000	4.852	14562.69	0.0420	P	0.8
3	☐	50.000	50.815	150095.62	0.4395	P	0.7
4	☐	125.000	126.615	367192.92	1.0951	P	0.6
5	☐	250.000	253.892	741904.31	2.1959	P	0.6
6	☐	500.000	498.907	1446137.70	4.3150	A	0.4
7	☐	1000.000	999.332	2927625.83	8.6431	A	0.8
8	☐			914.48	0.0029	P	3.3

$$y = 0.0086 * x + 3.2306\text{E-}005$$

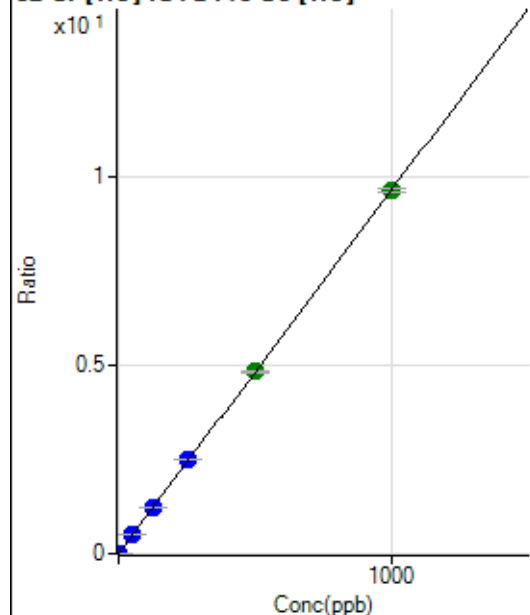
$$R = 1.0000$$

$$DL = 0.005172$$

$$BEC = 0.003735$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2079.05	0.0060	P	8.5
2	☐	2.000	1.964	8663.67	0.0250	P	3.5
3	☐	50.000	51.910	173042.65	0.5067	P	0.8
4	☐	125.000	127.390	414040.09	1.2347	P	0.6
5	☐	250.000	257.105	839874.85	2.4859	P	0.7
6	☐	500.000	499.662	1617124.89	4.8254	A	1.0
7	☐	1000.000	997.999	3262589.95	9.6320	A	1.0
8	☐			26951.95	0.0866	P	0.9

$$y = 0.0096 * x + 0.0060$$

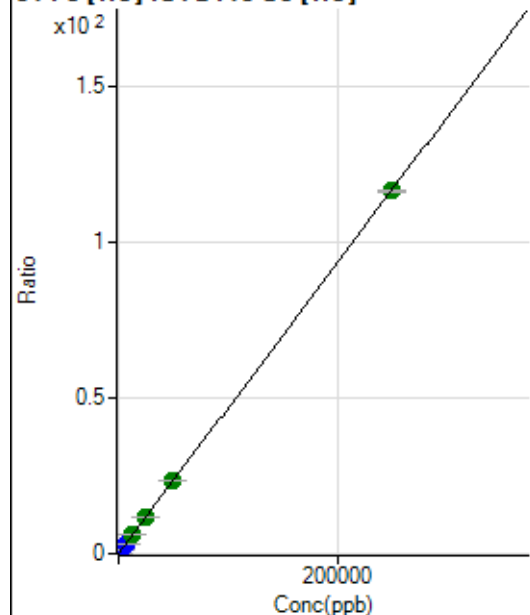
$$R = 1.0000$$

$$DL = 0.1605$$

$$BEC = 0.6262$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1686.78	0.0049	P	3.1
2	☐	50.000	53.002	10264.69	0.0296	P	0.3
3	☐	2500.000	2758.793	440762.24	1.2907	P	0.1
4	☐	6250.000	6828.411	1068740.90	3.1874	P	0.9
5	☐	12500.000	12836.136	2023019.64	5.9875	A	0.7
6	☐	25000.000	25414.567	3971277.54	11.8500	A	0.7
7	☐	50000.000	50722.721	8009289.39	23.6454	A	0.5
8	☐	250000.00	249780.14	36212664.46	116.4209	A	0.5

$$y = 4.6607E-004 * x + 0.0049$$

$$R = 1.0000$$

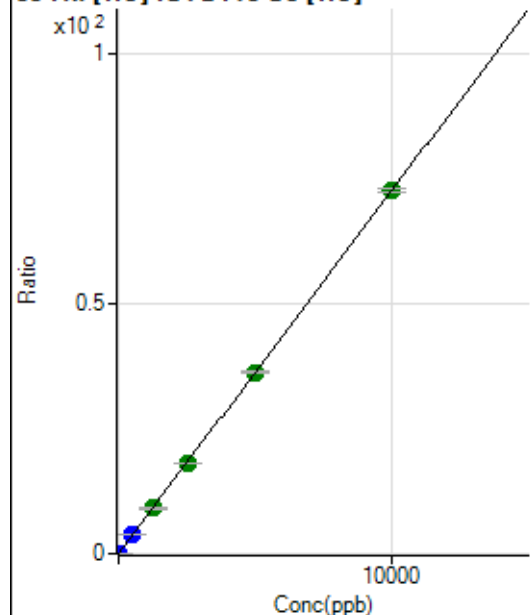
$$DL = 0.9858$$

$$BEC = 10.51$$

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	501.13	0.0015	P	13.5
2	☐	1.000	0.896	2762.50	0.0080	P	4.9
3	☐	500.000	519.632	1290173.25	3.7781	P	0.5
4	☐	1250.000	1252.710	3053080.65	9.1060	A	2.0
5	☐	2500.000	2492.874	6121705.40	18.1193	A	0.8
6	☐	5000.000	4996.372	12169513.29	36.3144	A	1.3
7	☐	10000.000	10002.275	24623854.91	72.6966	A	1.1
8	☐			13905.43	0.0447	P	2.2

$$y = 0.0073 * x + 0.0015$$

$$R = 1.0000$$

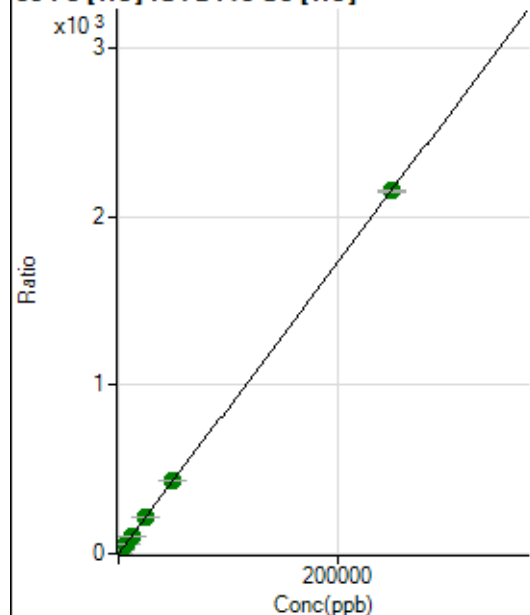
$$DL = 0.08092$$

$$BEC = 0.2003$$

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	18237.96	0.0530	P	7.4
2	☐	50.000	51.130	171329.29	0.4941	P	2.1
3	☐	2500.000	2538.515	7497492.74	21.9554	A	0.6
4	☐	6250.000	6366.845	18436093.34	54.9863	A	1.6
5	☐	12500.000	12536.934	36564295.29	108.2220	A	0.4
6	☐	25000.000	25248.085	73018630.58	217.8942	A	1.7
7	☐	50000.000	50507.747	147626543.3	435.8354	A	1.1
8	☐	250000.00	249868.48	670604034.4	2.155.926	A	0.3

$$y = 0.0086 * x + 0.0530$$

$$R = 1.0000$$

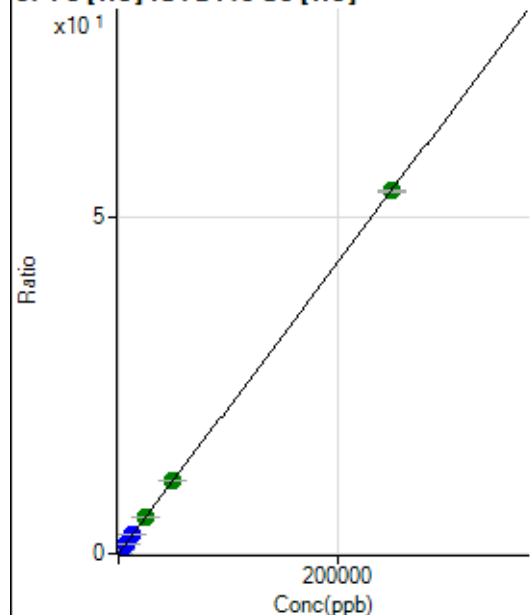
$$DL = 1.359$$

$$BEC = 6.14$$

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	1820.13	0.0053	P	5.4
2	☐	50.000	54.369	5910.10	0.0170	P	2.2
3	☐	2500.000	2712.382	202120.58	0.5919	P	1.0
4	☐	6250.000	6743.312	490743.83	1.4636	P	0.8
5	☐	12500.000	13377.496	979215.99	2.8983	P	0.8
6	☐	25000.000	25482.983	1848654.14	5.5162	A	1.4
7	☐	50000.000	50168.862	3676873.38	10.8548	A	1.3
8	☐	250000.00	249859.59	16809677.39	54.0400	A	0.4

$$y = 2.1626\text{E-}004 * x + 0.0053$$

$$R = 1.0000$$

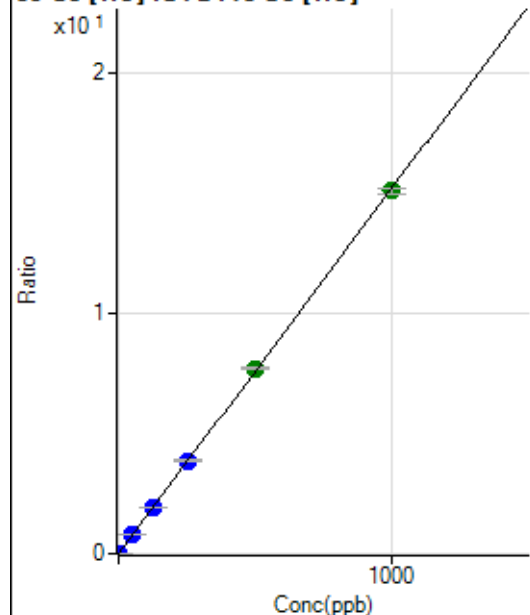
$$DL = 3.946$$

$$BEC = 24.45$$

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	121.12	0.0004	P	9.2
2	☐	1.000	1.031	5537.73	0.0160	P	2.8
3	☐	50.000	51.920	268841.70	0.7873	P	0.3
4	☐	125.000	127.386	647484.35	1.9311	P	0.7
5	☐	250.000	255.245	1307156.24	3.8689	P	0.7
6	☐	500.000	508.182	2581321.00	7.7025	A	1.2
7	☐	1000.000	994.203	5104267.11	15.0689	A	1.4
8	☐			13332.69	0.0429	P	1.4

$$y = 0.0152 * x + 3.5186\text{E-}004$$

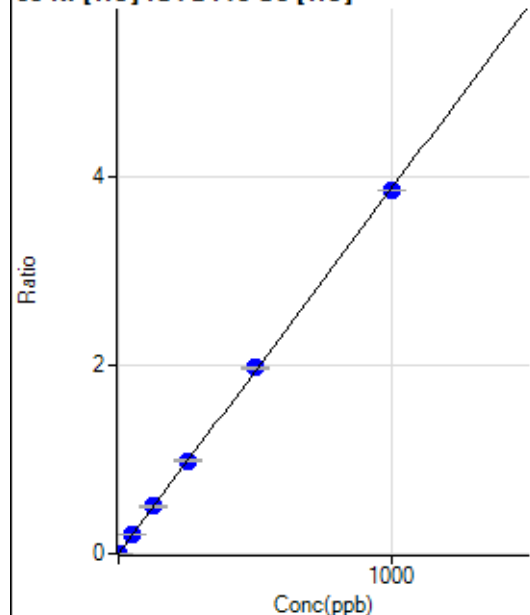
$$R = 0.9999$$

$$DL = 0.006399$$

$$BEC = 0.02322$$

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	512.24	0.0015	P	7.8
2	☐	1.000	1.012	1877.91	0.0054	P	4.9
3	☐	50.000	52.700	70329.40	0.2059	P	1.2
4	☐	125.000	129.017	168329.60	0.5020	P	1.0
5	☐	250.000	255.043	334814.64	0.9910	P	0.7
6	☐	500.000	509.050	662322.95	1.9765	P	1.6
7	☐	1000.000	993.577	1306222.26	3.8563	P	0.2
8	☐			9331.87	0.0300	P	0.9

$$y = 0.0039 * x + 0.0015$$

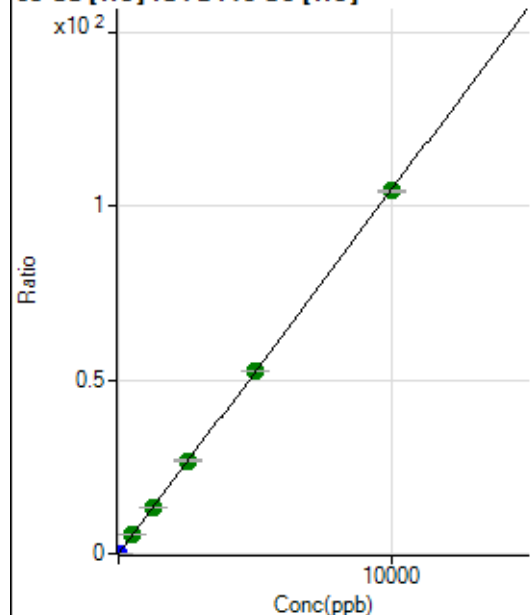
$$R = 0.9999$$

$$DL = 0.08966$$

$$BEC = 0.3834$$

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	1475.64	0.0043	P	5.3
2	☐	2.000	1.962	8611.43	0.0248	P	3.5
3	☐	500.000	523.048	1872640.87	5.4837	A	1.2
4	☐	1250.000	1286.283	4519698.47	13.4793	A	0.4
5	☐	2500.000	2545.015	9008875.70	26.6657	A	1.4
6	☐	5000.000	5029.912	17660530.71	52.6974	A	0.4
7	☐	10000.000	9968.102	35372956.14	104.4296	A	0.4
8	☐			6752.69	0.0217	P	1.0

$$y = 0.0105 * x + 0.0043$$

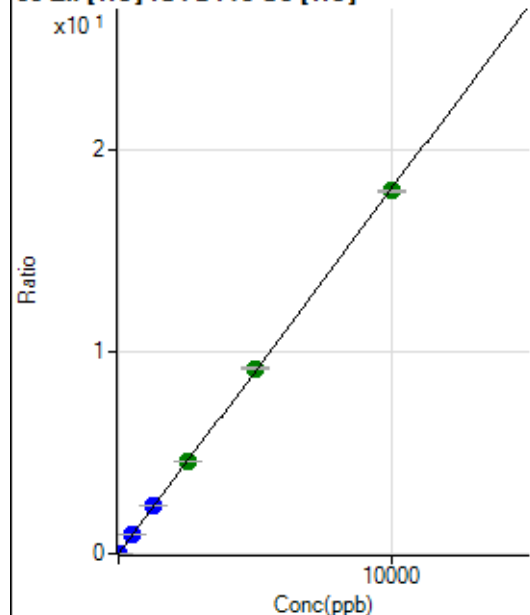
$$R = 1.0000$$

$$DL = 0.06515$$

$$BEC = 0.4092$$

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	611.13	0.0018	P	7.5
2	☐	5.000	5.119	3817.19	0.0110	P	2.0
3	☐	500.000	526.977	325177.14	0.9522	P	0.1
4	☐	1250.000	1304.737	789653.60	2.3550	P	0.3
5	☐	2500.000	2521.443	1537077.46	4.5495	A	1.0
6	☐	5000.000	5085.182	3074314.64	9.1734	A	0.4
7	☐	10000.000	9943.857	6075569.63	17.9365	A	0.3
8	☐			1889.03	0.0061	P	6.8

$$y = 0.0018 * x + 0.0018$$

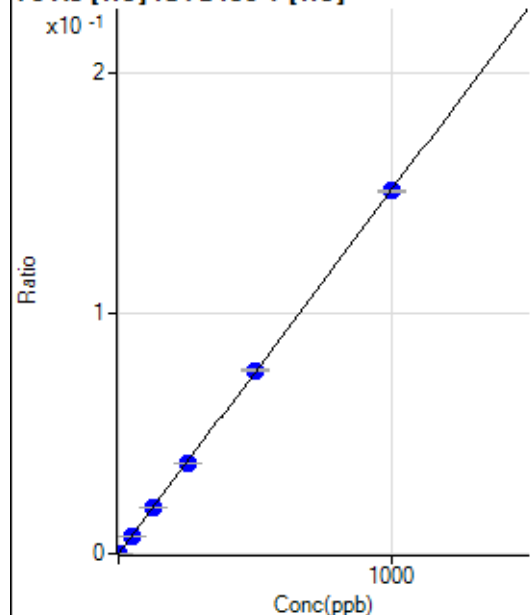
$$R = 0.9999$$

$$DL = 0.2218$$

$$BEC = 0.9843$$

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	3.33	0.0000	P	173.
2	☐	1.000	0.984	490.01	0.0001	P	7.3
3	☐	50.000	49.738	24242.11	0.0075	P	0.6
4	☐	125.000	125.108	59707.14	0.0189	P	0.2
5	☐	250.000	249.466	120573.55	0.0377	P	0.7
6	☐	500.000	504.418	241313.65	0.0762	P	0.5
7	☐	1000.000	997.924	485231.79	0.1508	P	0.4
8	☐			272.22	0.0001	P	8.9

$$y = 1.5107E-004 * x + 1.0272E-006$$

$$R = 1.0000$$

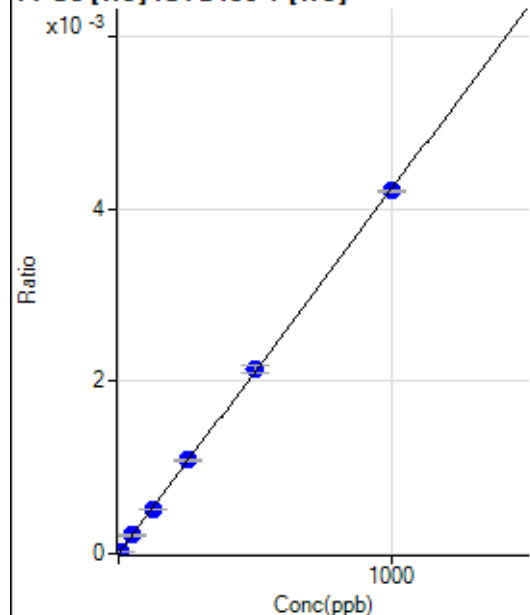
$$DL = 0.03533$$

$$BEC = 0.0068$$

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	5.300	73.34	0.0000	P	8.4
3	☐	50.000	50.369	686.69	0.0002	P	6.4
4	☐	125.000	121.466	1621.22	0.0005	P	3.1
5	☐	250.000	257.901	3486.00	0.0011	P	2.3
6	☐	500.000	506.537	6776.05	0.0021	P	3.2
7	☐	1000.000	995.178	13532.93	0.0042	P	0.8
8	☐			2.22	0.0000	P	86.6

$$y = 4.2249\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

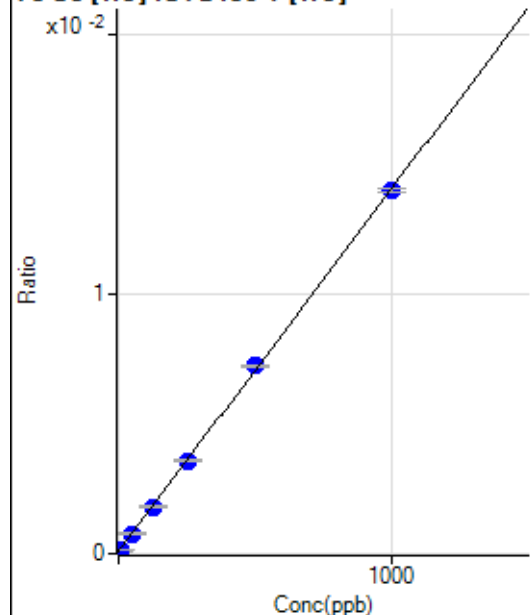
$$DL = 0$$

$$BEC = 0$$

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	298.89	0.0001	P	21.1
2	☐	5.000	3.500	461.12	0.0001	P	5.1
3	☐	50.000	48.927	2500.24	0.0008	P	4.1
4	☐	125.000	122.845	5710.04	0.0018	P	3.3
5	☐	250.000	248.894	11415.60	0.0036	P	1.9
6	☐	500.000	512.188	22943.40	0.0072	P	0.8
7	☐	1000.000	994.513	44998.19	0.0140	P	1.1
8	☐			232.22	0.0001	P	2.4

$$y = 1.3966\text{E-}005 * x + 9.1885\text{E-}005$$

$$R = 0.9999$$

$$DL = 4.173$$

$$BEC = 6.579$$

Weight: <None>

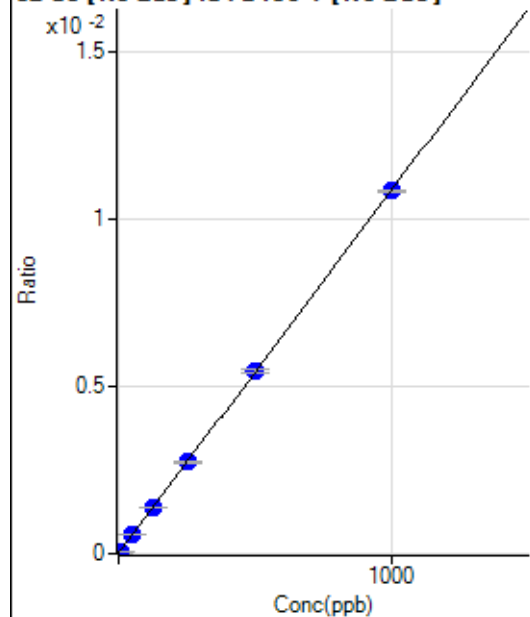
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7060.63		P	1.6
2	☐			7132.90		P	2.9
3	☐			6871.66		P	2.4
4	☐			6661.56		P	0.8
5	☐			6435.90		P	1.6
6	☐			6750.49		P	0.9
7	☐			6928.35		P	1.5
8	☐			7391.90		P	2.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.23		P	36.7
2	☐			113.34		P	12.8
3	☐			67.78		P	25.2
4	☐			71.11		P	19.0
5	☐			72.22		P	10.7
6	☐			102.22		P	6.8
7	☐			112.22		P	6.2
8	☐			153.33		P	24.2

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.58	0.0000	P	9.9
2	☐	5.000	4.835	875.97	0.0001	P	3.0
3	☐	50.000	51.501	7858.89	0.0006	P	1.9
4	☐	125.000	126.867	18866.27	0.0014	P	0.9
5	☐	250.000	250.906	37469.00	0.0027	P	0.4
6	☐	500.000	502.486	74879.89	0.0055	P	1.7
7	☐	1000.000	998.223	150009.71	0.0108	P	0.5
8	☐			294.57	0.0000	P	9.3

$$y = 1.0845E-005 * x + 1.0742E-005$$

$$R = 1.0000$$

$$DL = 0.2935$$

$$BEC = 0.9905$$

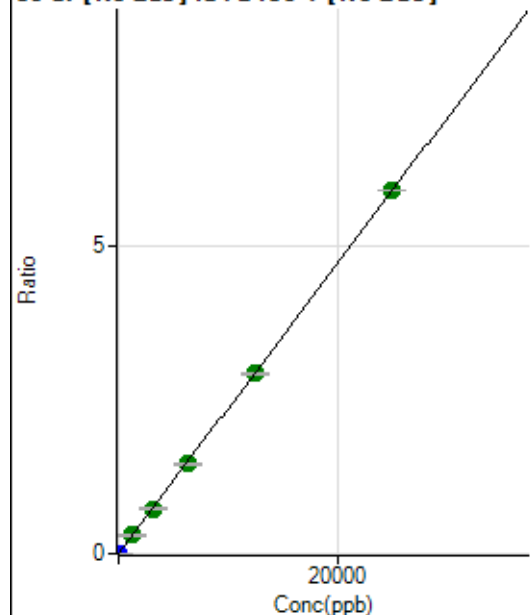
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			202.22		P	3.4
2	☐			205.56		P	10.5
3	☐			221.11		P	7.0
4	☐			215.56		P	6.2
5	☐			228.90		P	11.8
6	☐			205.56		P	9.8
7	☐			234.45		P	7.3
8	☐			262.23		P	6.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	394.45	0.0000	P	4.3
2	☐	1.000	0.977	3590.47	0.0003	P	3.1
3	☐	1250.000	1261.914	4105625.25	0.2974	A	0.9
4	☐	3125.000	3110.510	9973794.22	0.7330	A	1.3
5	☐	6250.000	6212.879	20081369.15	1.4641	A	1.6
6	☐	12500.000	12437.919	40199049.96	2.9311	A	0.9
7	☐	25000.000	25041.536	81691441.56	5.9013	A	0.0
8	☐			11316.66	0.0009	P	0.6

$$y = 2.3566E-004 * x + 2.8698E-005$$

$$R = 1.0000$$

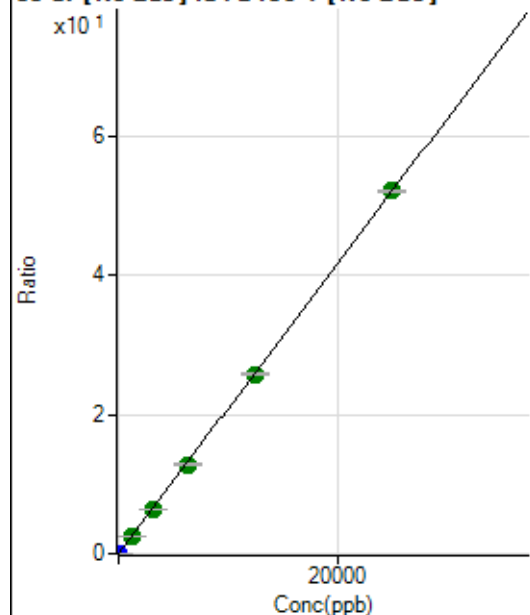
$$DL = 0.01585$$

$$BEC = 0.1218$$

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	218.89	0.0000	P	11.0
2	☐	1.000	0.956	27815.19	0.0020	P	1.8
3	☐	1250.000	1249.231	35890558.63	2.5999	A	0.6
4	☐	3125.000	3085.169	87362870.92	6.4209	A	1.0
5	☐	6250.000	6172.616	176196050.7	12.8465	A	1.0
6	☐	12500.000	12390.533	353656790.2	25.7872	A	1.0
7	☐	25000.000	25079.097	722521633.6	52.1946	A	0.3
8	☐			97050.73	0.0080	P	0.5

$$y = 0.0021 * x + 1.5921E-005$$

$$R = 1.0000$$

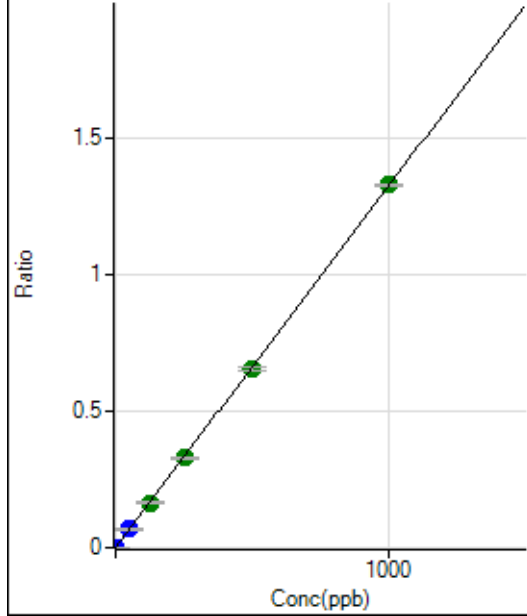
$$DL = 0.002529$$

$$BEC = 0.00765$$

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	587.79	0.0000	P	3.4
2	☐	1.000	0.854	16306.96	0.0012	P	3.4
3	☐	50.000	50.569	926913.98	0.0671	P	0.6
4	☐	125.000	123.823	2236131.89	0.1644	A	1.9
5	☐	250.000	247.867	4511799.28	0.3290	A	1.0
6	☐	500.000	494.450	8998688.48	0.6562	A	1.3
7	☐	1000.000	1003.427	18432766.95	1.3316	A	0.2
8	☐			9336.37	0.0008	P	1.6

$$y = 0.0013 * x + 4.2776E-005$$

$$R = 1.0000$$

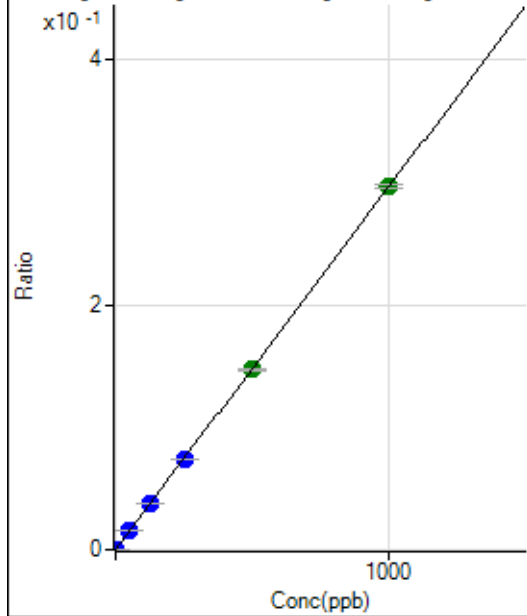
$$DL = 0.003243$$

$$BEC = 0.03224$$

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	100.00	0.0000	P	17.1
2	☐	1.000	0.844	3566.03	0.0003	P	2.2
3	☐	50.000	50.703	207352.25	0.0150	P	1.1
4	☐	125.000	125.324	505003.45	0.0371	P	1.0
5	☐	250.000	249.927	1015121.86	0.0740	P	0.2
6	☐	500.000	497.706	2021244.45	0.1474	A	0.9
7	☐	1000.000	1001.090	4103633.41	0.2964	A	1.2
8	☐			2023.50	0.0002	P	0.7

$$y = 2.9610E-004 * x + 7.2718E-006$$

$$R = 1.0000$$

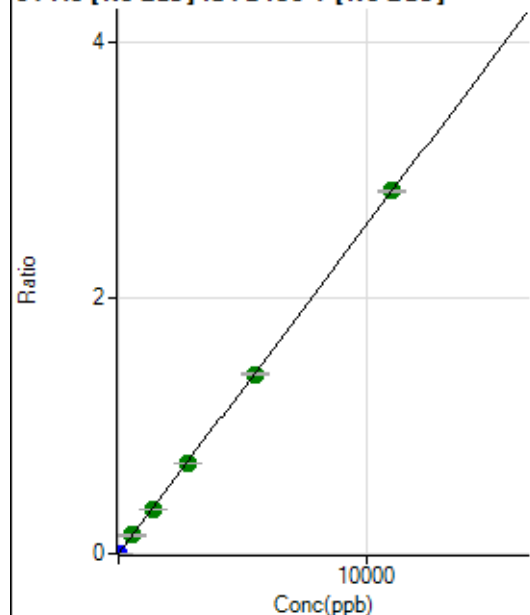
$$DL = 0.01262$$

$$BEC = 0.02456$$

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	374.45	0.0000	P	16.6
2	☐	5.000	5.600	20322.01	0.0015	P	1.2
3	☐	550.000	555.853	1971298.06	0.1428	A	1.6
4	☐	1375.000	1359.029	4749826.87	0.3491	A	1.3
5	☐	2750.000	2728.057	9611190.14	0.7007	A	0.6
6	☐	5500.000	5456.994	19222391.24	1.4017	A	1.6
7	☐	11000.000	11028.692	39214180.53	2.8328	A	0.2
8	☐			10542.76	0.0009	P	1.9

$$y = 2.5685E-004 * x + 2.7252E-005$$

$$R = 1.0000$$

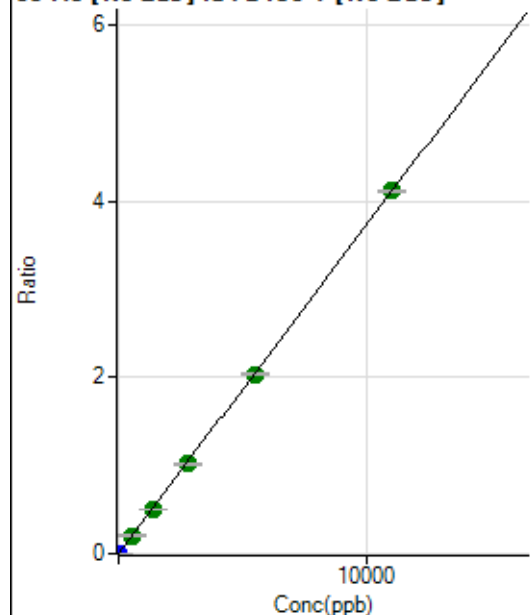
$$DL = 0.0529$$

$$BEC = 0.1061$$

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	340.01	0.0000	P	11.3
2	☐	5.000	4.718	24774.33	0.0018	P	0.5
3	☐	550.000	554.777	2860262.53	0.2072	A	0.4
4	☐	1375.000	1366.925	6945623.02	0.5105	A	0.7
5	☐	2750.000	2721.509	13939498.12	1.0163	A	0.4
6	☐	5500.000	5463.715	27981844.03	2.0403	A	1.1
7	☐	11000.000	11026.036	56998731.37	4.1175	A	0.4
8	☐			11561.32	0.0010	P	1.2

$$y = 3.7343E-004 * x + 2.4729E-005$$

$$R = 1.0000$$

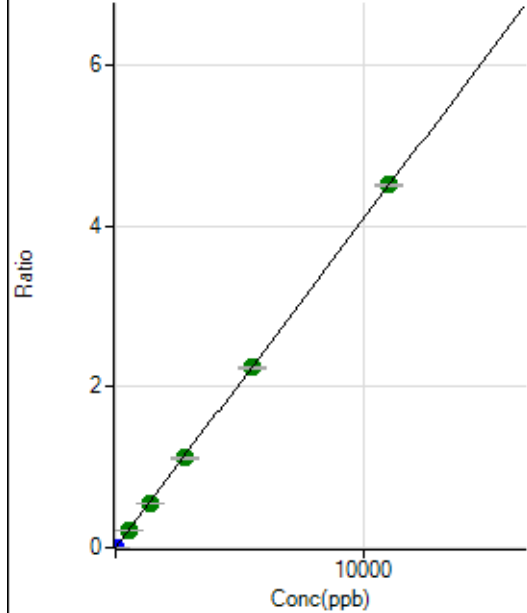
$$DL = 0.02247$$

$$BEC = 0.06622$$

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	398.90	0.0000	P	12.5
2	☐	5.000	4.748	27322.24	0.0020	P	0.3
3	☐	550.000	549.628	3102721.34	0.2248	A	0.8
4	☐	1375.000	1362.886	7582502.59	0.5573	A	0.7
5	☐	2750.000	2719.131	15249220.47	1.1118	A	0.9
6	☐	5500.000	5466.423	30653741.77	2.2351	A	0.9
7	☐	11000.000	11026.038	62409702.40	4.5083	A	0.4
8	☐			22481.86	0.0018	P	2.1

$$y = 4.0888\text{E-}004 * x + 2.9021\text{E-}005$$

$$R = 1.0000$$

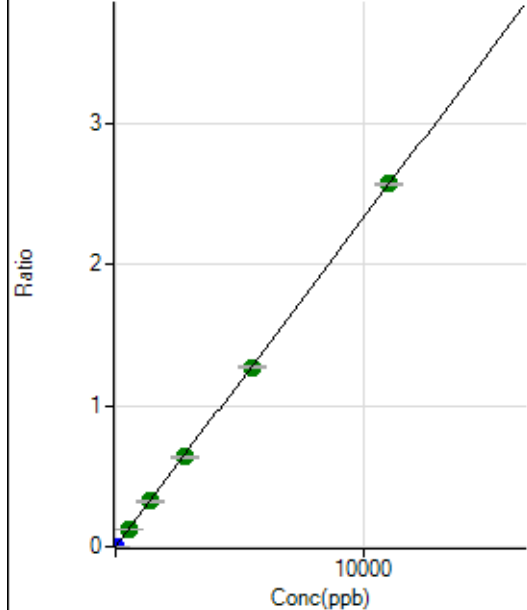
$$DL = 0.02669$$

$$BEC = 0.07098$$

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	222.23	0.0000	P	12.9
2	☐	5.000	4.798	15726.33	0.0011	P	1.4
3	☐	550.000	546.719	1759006.96	0.1274	A	1.0
4	☐	1375.000	1375.276	4360854.34	0.3205	A	0.5
5	☐	2750.000	2725.721	8712195.29	0.6352	A	0.6
6	☐	5500.000	5454.004	17431382.10	1.2710	A	1.0
7	☐	11000.000	11029.197	35579365.03	2.5702	A	0.6
8	☐			7266.33	0.0006	P	5.0

$$y = 2.3303\text{E-}004 * x + 1.6172\text{E-}005$$

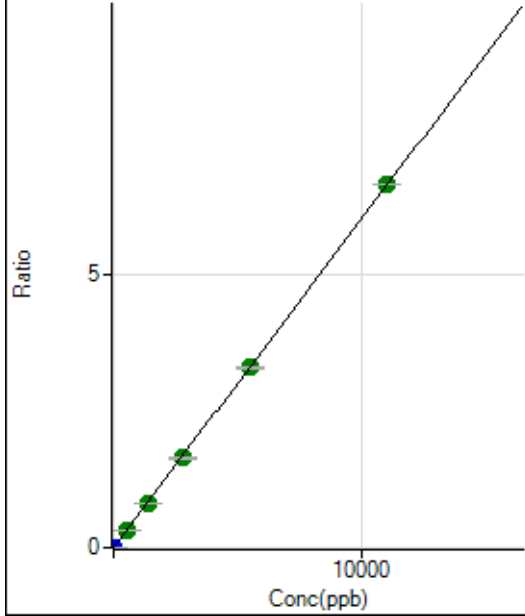
$$R = 1.0000$$

$$DL = 0.02679$$

$$BEC = 0.0694$$

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	584.46	0.0000	P	5.6
2	☐	5.000	4.716	39955.67	0.0029	P	1.1
3	☐	550.000	548.990	4562352.22	0.3305	A	0.7
4	☐	1375.000	1359.858	11137409.14	0.8186	A	1.5
5	☐	2750.000	2724.016	22489413.83	1.6397	A	0.9
6	☐	5500.000	5467.589	45136642.10	3.2912	A	1.0
7	☐	11000.000	11024.645	91863756.41	6.6361	A	0.1
8	☐			18341.59	0.0015	P	2.4

$$y = 6.0193\text{E-}004 * x + 4.2527\text{E-}005$$

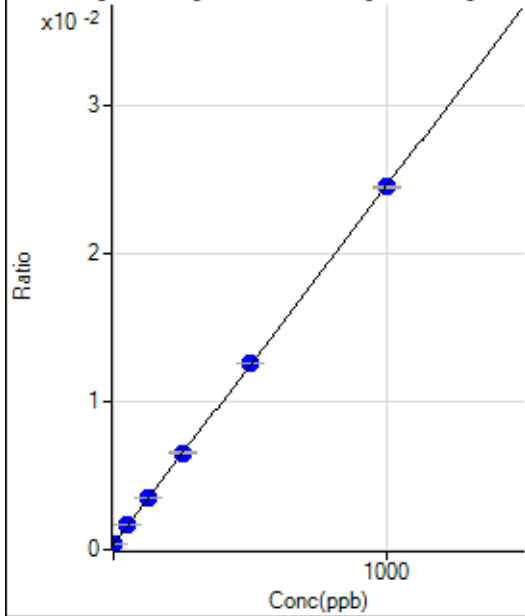
$$R = 1.0000$$

$$DL = 0.01185$$

$$BEC = 0.07065$$

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	4390.70	0.0004	P	5.1
2	☐	1.000	1.101	4669.68	0.0004	P	4.3
3	☐	50.000	52.796	17931.12	0.0017	P	2.7
4	☐	125.000	128.228	36921.32	0.0035	P	2.0
5	☐	250.000	252.274	70383.95	0.0065	P	1.5
6	☐	500.000	503.777	136285.35	0.0126	P	0.3
7	☐	1000.000	996.999	268306.70	0.0245	P	0.4
8	☐			3993.92	0.0004	P	2.0

$$y = 2.4141\text{E-}005 * x + 4.1625\text{E-}004$$

$$R = 1.0000$$

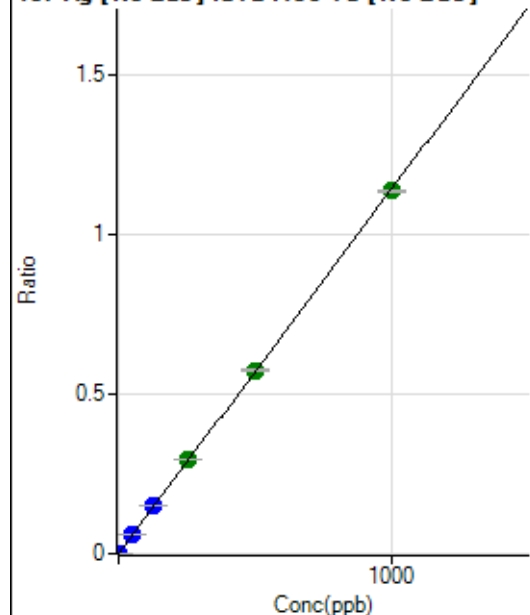
$$DL = 2.619$$

$$BEC = 17.24$$

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	82.22	0.0000	P	24.3
2	☐	1.000	0.958	11619.18	0.0011	P	1.3
3	☐	50.000	53.721	651055.20	0.0614	P	1.7
4	☐	125.000	130.992	1573622.79	0.1497	P	0.8
5	☐	250.000	257.265	3179939.99	0.2939	A	0.8
6	☐	500.000	503.339	6231187.55	0.5751	A	0.7
7	☐	1000.000	995.579	12464315.65	1.1375	A	0.6
8	☐			1166.72	0.0001	P	5.3

$$y = 0.0011 * x + 7.7849E-006$$

$$R = 1.0000$$

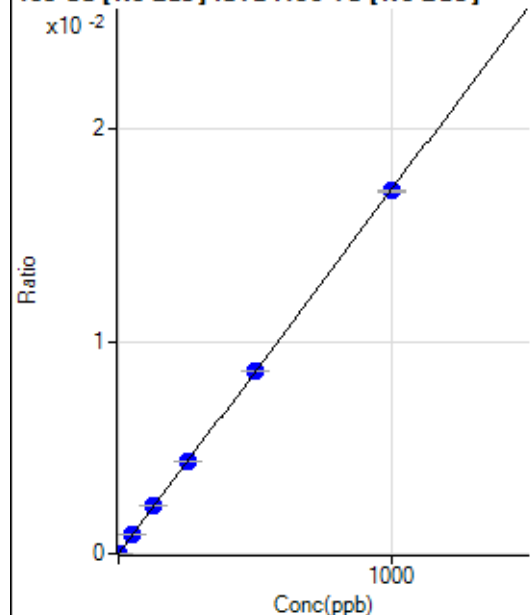
$$DL = 0.004964$$

$$BEC = 0.006814$$

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	10.00	0.0000	P	89.1
2	☐	1.000	0.859	165.56	0.0000	P	7.2
3	☐	50.000	52.882	9637.71	0.0009	P	1.7
4	☐	125.000	132.266	23881.93	0.0023	P	0.6
5	☐	250.000	254.984	47361.45	0.0044	P	0.7
6	☐	500.000	502.301	93436.10	0.0086	P	0.6
7	☐	1000.000	996.551	187462.35	0.0171	P	0.3
8	☐			55.56	0.0000	P	25.0

$$y = 1.7166E-005 * x + 9.5214E-007$$

$$R = 1.0000$$

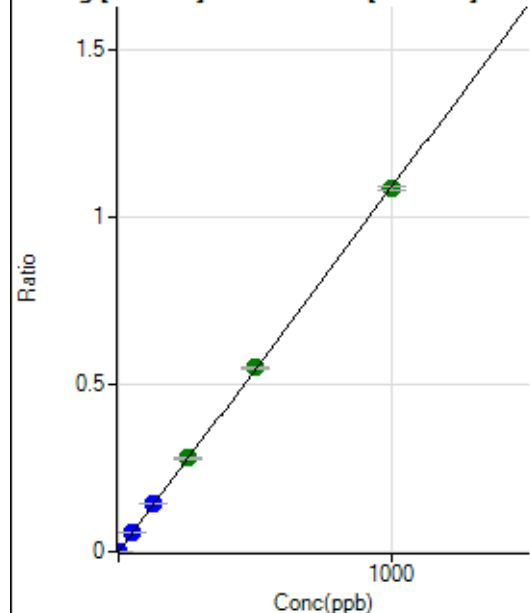
$$DL = 0.1482$$

$$BEC = 0.05547$$

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	42.22	0.0000	P	31.1
2	☐	1.000	0.954	10985.34	0.0010	P	2.3
3	☐	50.000	53.431	616361.05	0.0581	P	0.9
4	☐	125.000	130.600	1493360.92	0.1420	P	0.9
5	☐	250.000	256.719	3020130.93	0.2792	A	1.7
6	☐	500.000	503.961	5938455.47	0.5481	A	1.1
7	☐	1000.000	995.468	11862613.57	1.0826	A	1.0
8	☐			1067.83	0.0001	P	2.9

$$y = 0.0011 * x + 3.9967E-006$$

$$R = 1.0000$$

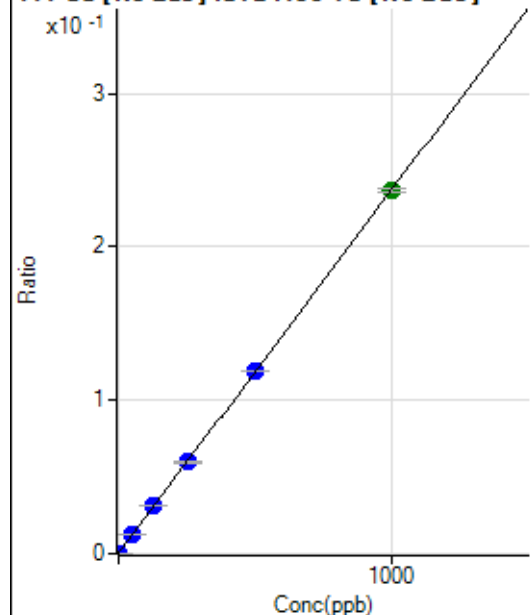
$$DL = 0.003433$$

$$BEC = 0.003675$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3089.83	0.0003	P	4.9
2	☐	1.000	1.009	5607.56	0.0005	P	3.4
3	☐	50.000	52.313	134435.09	0.0127	P	0.7
4	☐	125.000	129.128	324426.82	0.0309	P	0.8
5	☐	250.000	251.450	646984.96	0.0598	P	1.2
6	☐	500.000	502.945	1293019.25	0.1193	P	0.2
7	☐	1000.000	997.533	2590350.06	0.2364	A	1.1
8	☐			3125.75	0.0003	P	2.0

$$y = 2.3669E-004 * x + 2.9292E-004$$

$$R = 1.0000$$

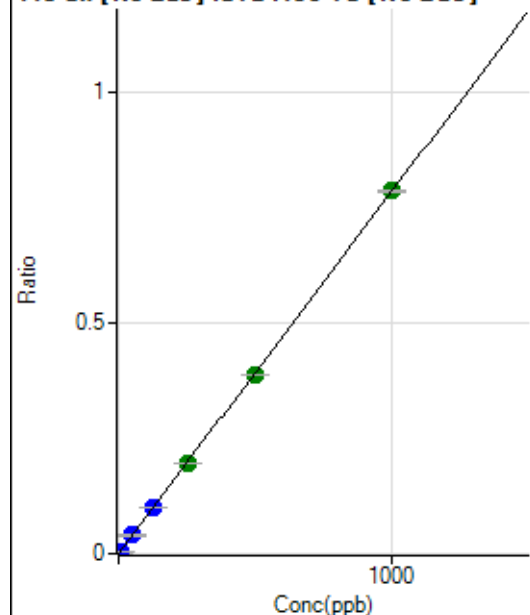
$$DL = 0.1818$$

$$BEC = 1.238$$

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	1328.96	0.0001	P	3.1
2	☐	5.000	4.724	40375.39	0.0038	P	2.0
3	☐	50.000	50.705	422880.90	0.0399	P	1.9
4	☐	125.000	125.718	1037456.32	0.0987	P	1.0
5	☐	250.000	250.879	2128874.90	0.1968	A	0.7
6	☐	500.000	493.716	4194815.01	0.3871	A	0.3
7	☐	1000.000	1002.799	8615110.50	0.7862	A	0.8
8	☐			5738.97	0.0006	P	3.2

$$y = 7.8390E-004 * x + 1.2596E-004$$

$$R = 1.0000$$

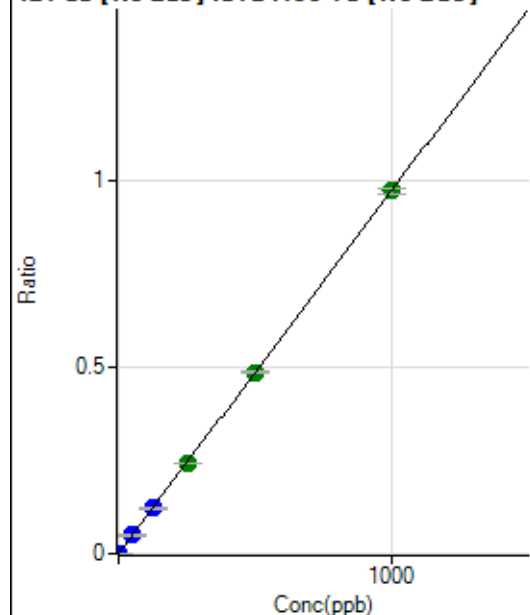
$$DL = 0.01517$$

$$BEC = 0.1607$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	118.89	0.0000	P	15.2
2	☐	2.000	1.884	19473.25	0.0018	P	0.4
3	☐	50.000	50.494	521902.94	0.0492	P	1.8
4	☐	125.000	124.853	1279096.64	0.1217	P	0.8
5	☐	250.000	249.673	2631750.45	0.2433	A	0.9
6	☐	500.000	500.220	5280903.32	0.4874	A	0.7
7	☐	1000.000	999.965	10675771.99	0.9743	A	1.7
8	☐			6453.73	0.0007	P	5.8

$$y = 9.7433E-004 * x + 1.1260E-005$$

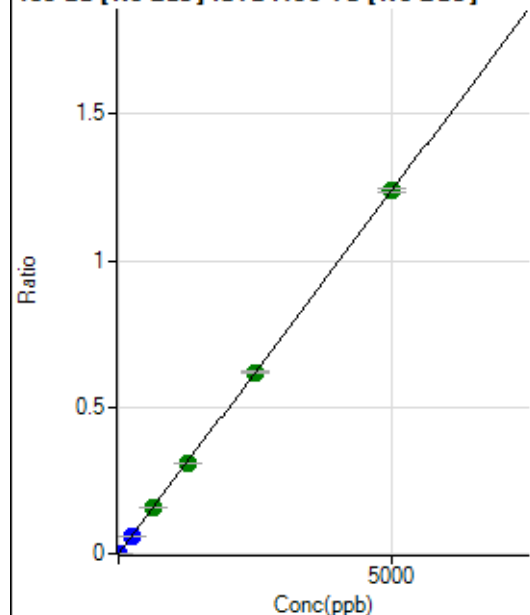
$$R = 1.0000$$

$$DL = 0.005254$$

$$BEC = 0.01156$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51.11	0.0000	P	30.1
2	☐	10.000	9.188	24024.77	0.0023	P	1.8
3	☐	250.000	246.351	646610.25	0.0610	P	1.4
4	☐	625.000	631.424	1642790.29	0.1563	A	1.6
5	☐	1250.000	1241.448	3323218.91	0.3072	A	1.4
6	☐	2500.000	2502.760	6710556.85	0.6193	A	0.4
7	☐	5000.000	5000.139	13558030.07	1.2373	A	1.2
8	☐			5086.50	0.0005	P	1.7

$$y = 2.4746\text{E-}004 * x + 4.8444\text{E-}006$$

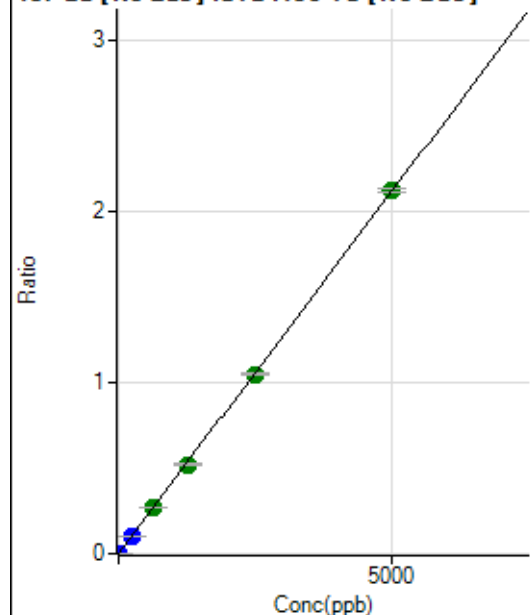
$$R = 1.0000$$

$$DL = 0.01771$$

$$BEC = 0.01958$$

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	88.89	0.0000	P	15.9
2	☐	10.000	9.200	41091.44	0.0039	P	1.0
3	☐	250.000	246.961	1107207.61	0.1044	P	1.6
4	☐	625.000	632.688	2811839.19	0.2674	A	0.5
5	☐	1250.000	1232.757	5636539.08	0.5211	A	2.6
6	☐	2500.000	2482.783	11370847.33	1.0495	A	0.9
7	☐	5000.000	5012.112	23214363.82	2.1186	A	1.1
8	☐			8638.24	0.0009	P	1.6

$$y = 4.2269\text{E-}004 * x + 8.4311\text{E-}006$$

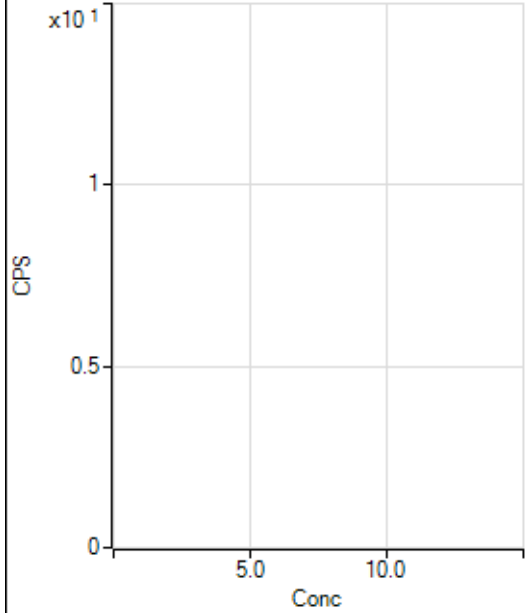
$$R = 1.0000$$

$$DL = 0.009506$$

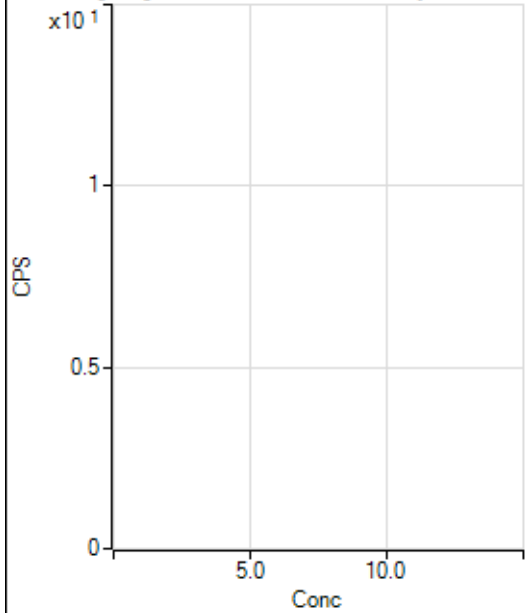
$$BEC = 0.01995$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	105.
2	☐			15.55		P	44.6
3	☐			27.78		P	18.3
4	☐			106.67		P	11.3
5	☐			177.78		P	7.6
6	☐			406.68		P	5.0
7	☐			744.47		P	12.8
8	☐			160.00		P	11.6

150 Nd [He] No available calibration points

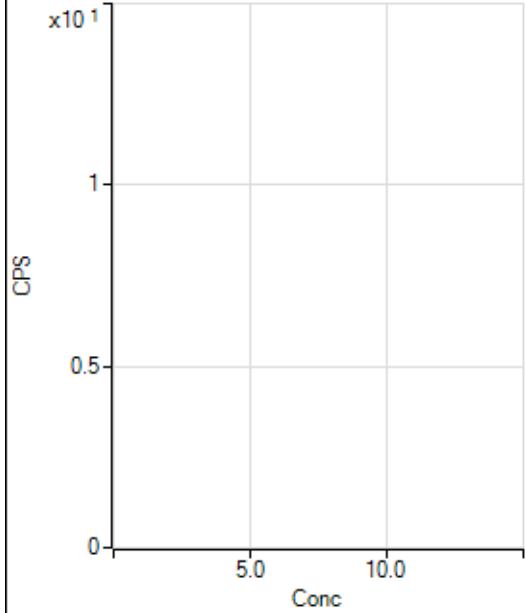
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			13.33		P	25.0
3	☐			16.67		P	72.1
4	☐			28.89		P	17.6
5	☐			64.45		P	37.4
6	☐			126.67		P	13.9
7	☐			283.34		P	20.5
8	☐			113.33		P	13.5

156 Dy [No Gas] No available calibration points

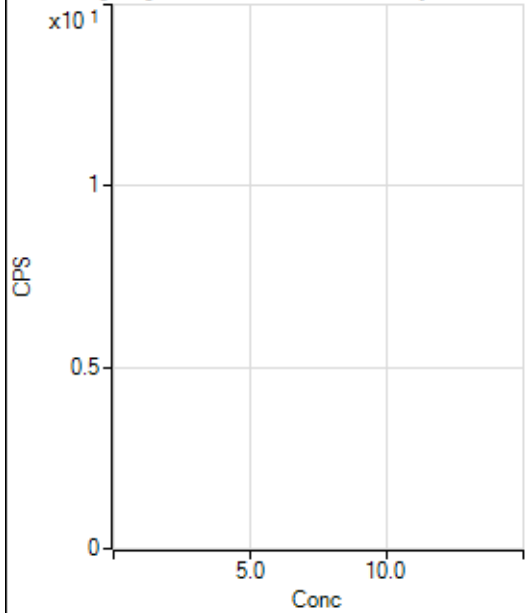
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	27.0
2	☐			12.22		P	56.8
3	☐			22.22		P	8.7
4	☐			72.22		P	34.0
5	☐			88.89		P	9.4
6	☐			166.67		P	17.8
7	☐			355.57		P	4.2
8	☐			324.45		P	15.7

156 Dy [He] No available calibration points

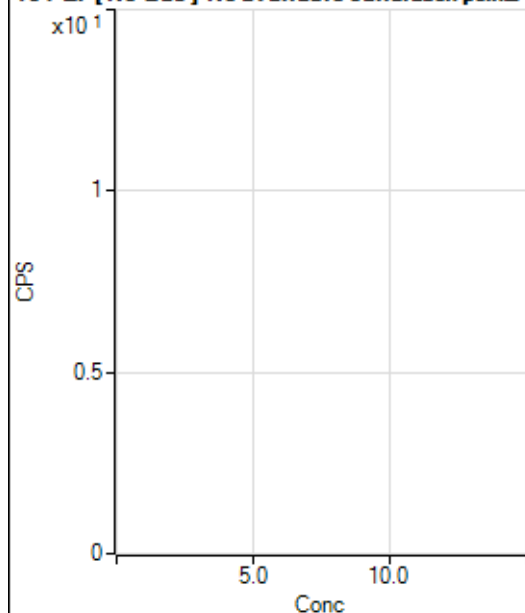
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	75.5
2	☐			16.67		P	105.
3	☐			57.78		P	13.3
4	☐			101.11		P	1.9
5	☐			213.34		P	6.8
6	☐			391.12		P	9.0
7	☐			810.03		P	4.5
8	☐			294.45		P	15.9

160 Gd [No Gas] Noavailable calibration poin...

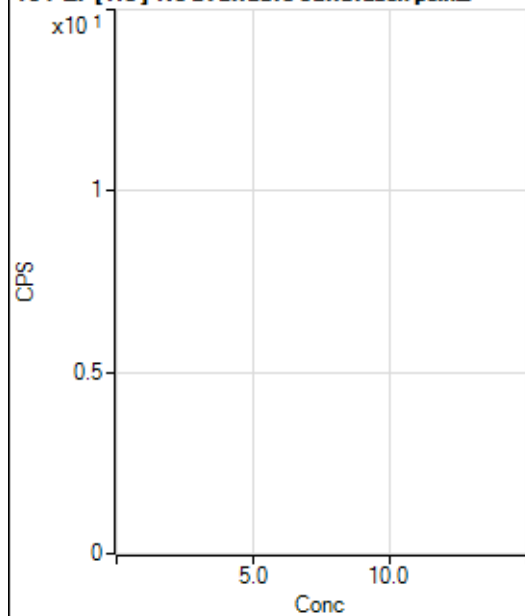
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.33		P	24.1
2	☐			60.00		P	25.5
3	☐			63.33		P	5.3
4	☐			103.34		P	21.2
5	☐			116.67		P	32.5
6	☐			163.34		P	2.0
7	☐			284.45		P	16.2
8	☐			378.90		P	9.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			487.79		P	8.2
2	☐			508.90		P	5.7
3	☐			471.12		P	6.1
4	☐			496.68		P	9.9
5	☐			530.01		P	13.0
6	☐			503.35		P	3.3
7	☐			613.35		P	11.5
8	☐			687.80		P	10.9

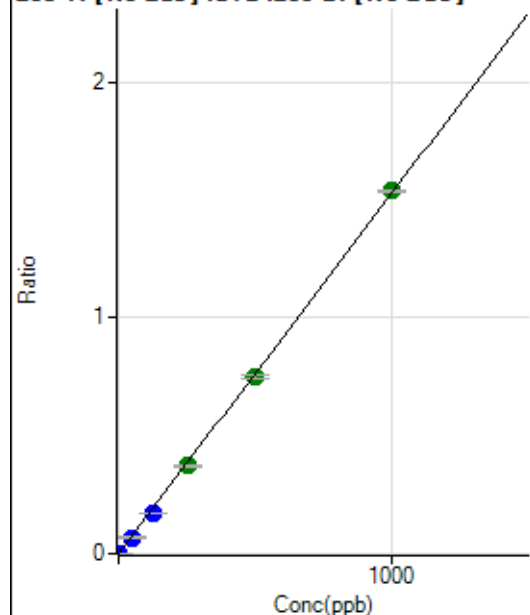
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			540.03		P	23.0
2	☐			477.80		P	8.7
3	☐			522.25		P	7.4
4	☐			612.26		P	16.6
5	☐			628.92		P	10.1
6	☐			715.60		P	8.5
7	☐			846.71		P	8.7
8	☐			768.92		P	11.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			131.11		P	36.0
2	☐			125.56		P	17.1
3	☐			134.45		P	32.4
4	☐			177.78		P	27.3
5	☐			160.00		P	31.1
6	☐			222.23		P	3.1
7	☐			322.23		P	9.6
8	☐			301.12		P	23.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0000	P	3.9
2	☐	1.000	0.833	7825.67	0.0013	P	1.2
3	☐	50.000	45.292	420403.10	0.0692	P	1.1
4	☐	125.000	111.712	1047871.18	0.1706	P	0.8
5	☐	250.000	244.327	2305801.84	0.3730	A	1.9
6	☐	500.000	491.419	4635879.97	0.7502	A	1.3
7	☐	1000.000	1007.605	9370356.80	1.5381	A	0.4
8	☐			841.15	0.0002	P	6.1

$$y = 0.0015 * x + 3.4186E-005$$

$$R = 0.9999$$

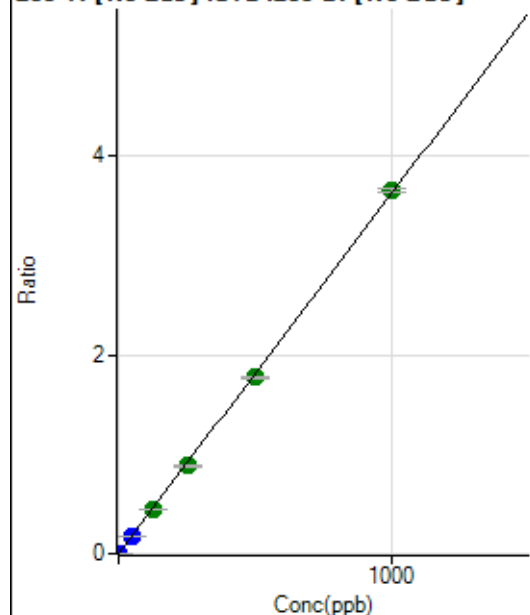
$$DL = 0.002613$$

$$BEC = 0.02239$$

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	474.46	0.0001	P	6.5
2	☐	1.000	0.849	18913.24	0.0032	P	2.6
3	☐	50.000	45.666	1007318.69	0.1657	P	1.2
4	☐	125.000	121.414	2706429.89	0.4405	A	0.9
5	☐	250.000	244.870	5491809.57	0.8884	A	2.4
6	☐	500.000	489.485	10973630.39	1.7758	A	1.2
7	☐	1000.000	1007.205	22258680.22	3.6539	A	0.9
8	☐			2055.74	0.0004	P	8.7

$$y = 0.0036 * x + 7.8460E-005$$

$$R = 0.9999$$

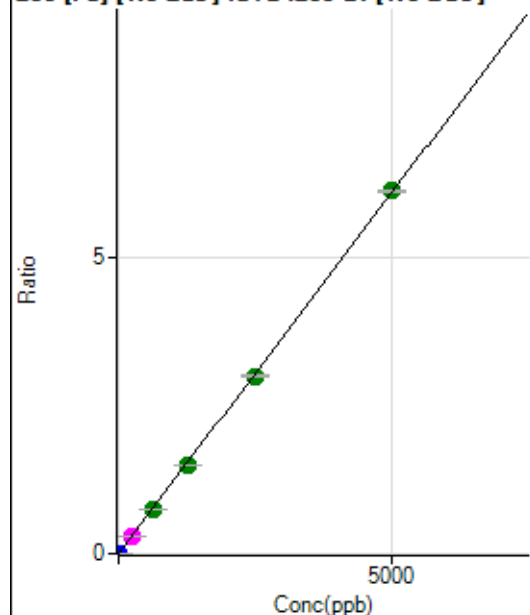
$$DL = 0.004227$$

$$BEC = 0.02163$$

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	714.47	0.0001	P	3.4
2	☐	1.000	0.845	6880.69	0.0011	P	2.8
3	☐	250.000	234.890	1742868.29	0.2867	M	3.4
4	☐	625.000	616.615	4622408.37	0.7524	A	1.7
5	☐	1250.000	1230.317	9281532.50	1.5012	A	1.0
6	☐	2500.000	2458.851	18539516.39	3.0001	A	1.3
7	☐	5000.000	5027.299	37367246.67	6.1338	A	0.9
8	☐			15502.24	0.0030	P	2.7

$$y = 0.0012 * x + 1.1815E-004$$

$$R = 0.9999$$

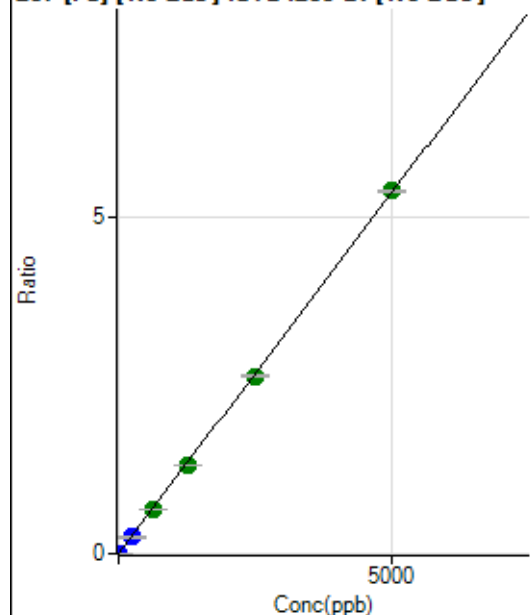
$$DL = 0.009758$$

$$BEC = 0.09684$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	591.13	0.0001	P	3.6
2	☐	1.000	0.834	5933.57	0.0010	P	2.7
3	☐	250.000	227.295	1479496.91	0.2434	P	0.9
4	☐	625.000	614.101	4039434.42	0.6575	A	1.1
5	☐	1250.000	1221.997	8088579.19	1.3083	A	1.0
6	☐	2500.000	2460.833	16280566.15	2.6345	A	1.0
7	☐	5000.000	5029.082	32799548.68	5.3839	A	0.9
8	☐			13132.00	0.0026	P	0.7

$$y = 0.0011 * x + 9.7751E-005$$

$$R = 0.9999$$

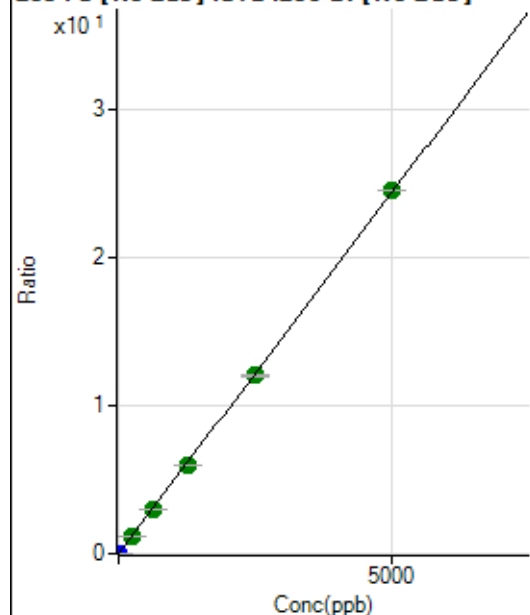
$$DL = 0.009784$$

$$BEC = 0.09131$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4740.60	0.0008	P	8.8
2	☐	1.000	0.838	29168.73	0.0049	P	1.8
3	☐	250.000	238.884	7085660.35	1.1658	A	0.9
4	☐	625.000	612.436	18354234.17	2.9876	A	0.7
5	☐	1250.000	1224.599	36928391.54	5.9730	A	1.1
6	☐	2500.000	2464.777	74287513.89	12.0212	A	1.2
7	☐	5000.000	5026.088	149330667.5	24.5124	A	0.1
8	☐			62660.19	0.0122	P	1.3

$$y = 0.0049 * x + 7.8372E-004$$

$$R = 0.9999$$

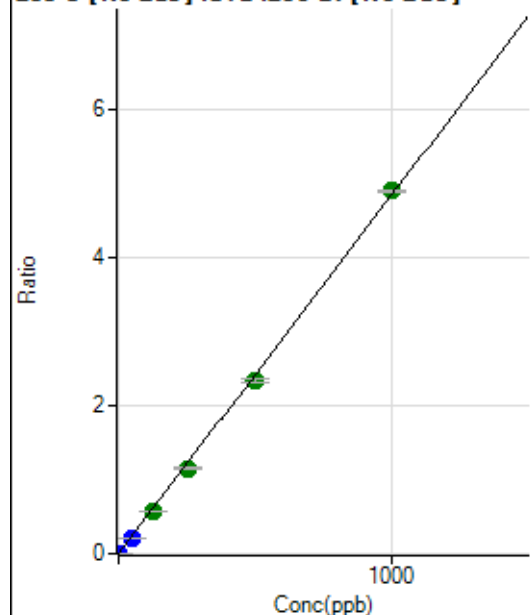
$$DL = 0.04258$$

$$BEC = 0.1607$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0000	P	30.6
2	☐	1.000	0.801	23363.92	0.0039	P	1.9
3	☐	50.000	43.119	1271539.45	0.2092	P	0.7
4	☐	125.000	118.968	3545886.02	0.5772	A	1.6
5	☐	250.000	238.648	7157362.18	1.1578	A	2.0
6	☐	500.000	483.879	14506066.87	2.3476	A	2.5
7	☐	1000.000	1011.997	29910417.89	4.9098	A	0.4
8	☐			1376.76	0.0003	P	1.7

$$y = 0.0049 * x + 1.5977E-005$$

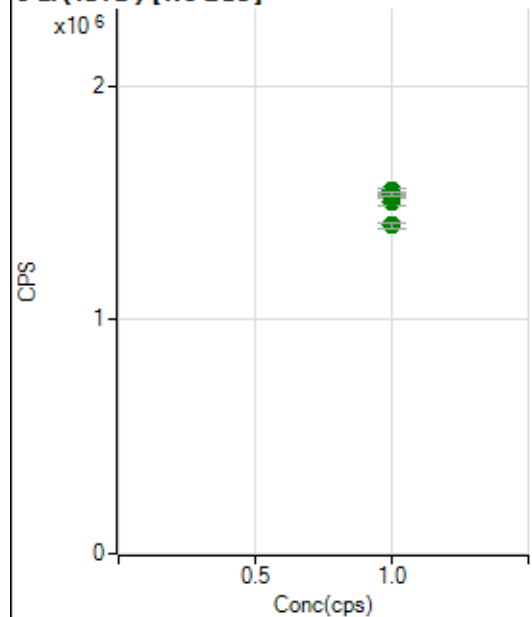
$$R = 0.9997$$

$$DL = 0.003025$$

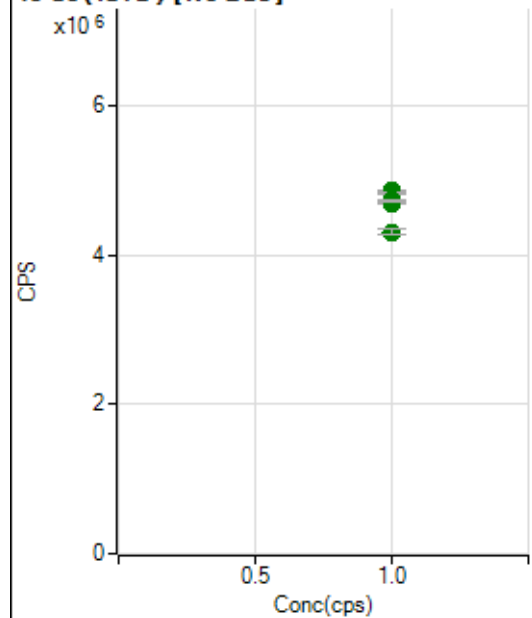
$$BEC = 0.003293$$

Weight: <None>

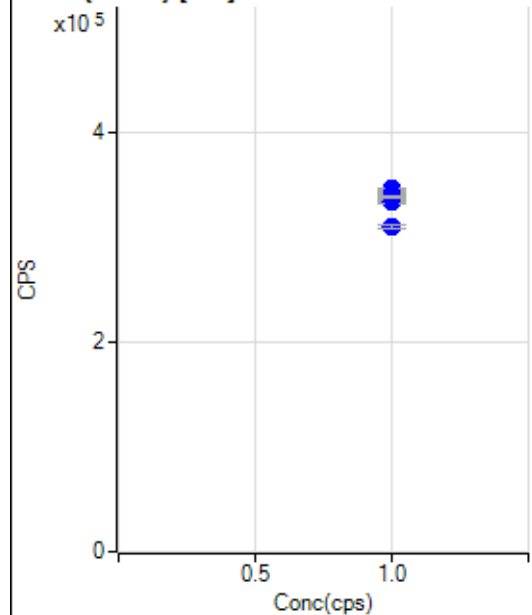
Min Conc: 0

6 Li (ISTD) [No Gas]

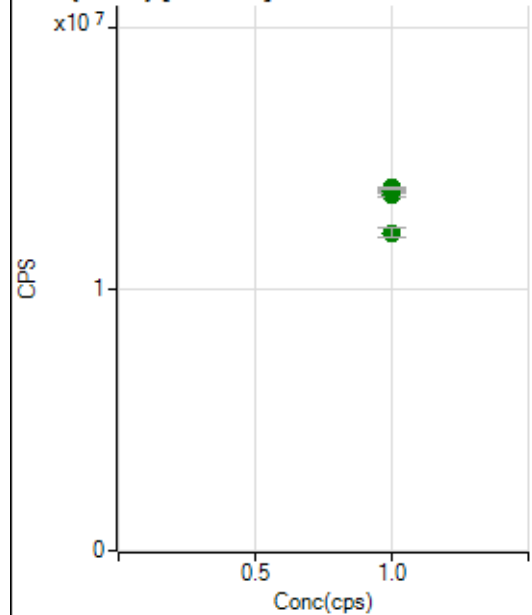
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1506445.52		A	2.1
2	☐	1.000		1523234.35		A	0.7
3	☐	1.000		1547869.39		A	1.5
4	☐	1.000		1534973.33		A	0.9
5	☐	1.000		1540405.34		A	0.8
6	☐	1.000		1550933.62		A	1.3
7	☐	1.000		1536294.72		A	1.4
8	☐	1.000		1402157.93		A	1.6

45 Sc (ISTD) [No Gas]

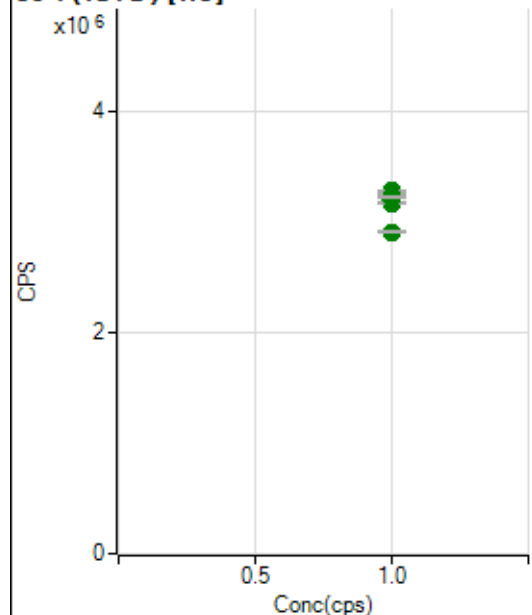
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4865870.94		A	0.9
2	☐	1.000		4868458.85		A	0.9
3	☐	1.000		4843995.03		A	0.6
4	☐	1.000		4727786.32		A	0.7
5	☐	1.000		4706139.34		A	0.8
6	☐	1.000		4716533.13		A	1.1
7	☐	1.000		4743724.86		A	0.7
8	☐	1.000		4318250.56		A	1.7

45 Sc (ISTD) [He]

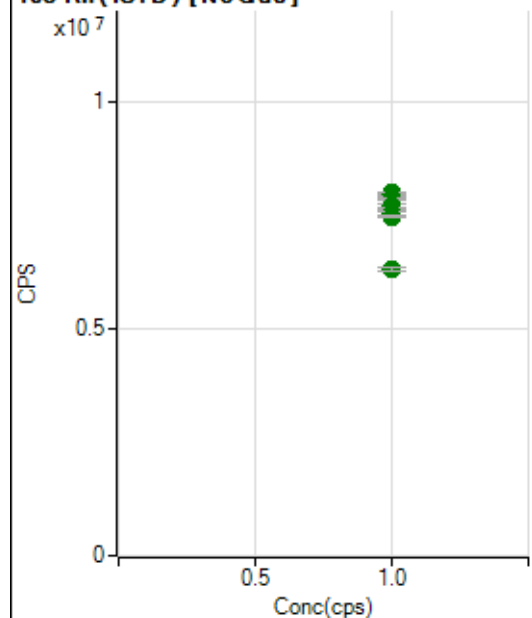
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		344291.31		P	0.4
2	☐	1.000		346752.76		P	0.7
3	☐	1.000		341489.74		P	0.3
4	☐	1.000		335313.32		P	0.8
5	☐	1.000		337868.52		P	0.8
6	☐	1.000		335137.67		P	1.0
7	☐	1.000		338727.09		P	0.3
8	☐	1.000		311052.78		P	1.0

89 Y (ISTD) [No Gas]

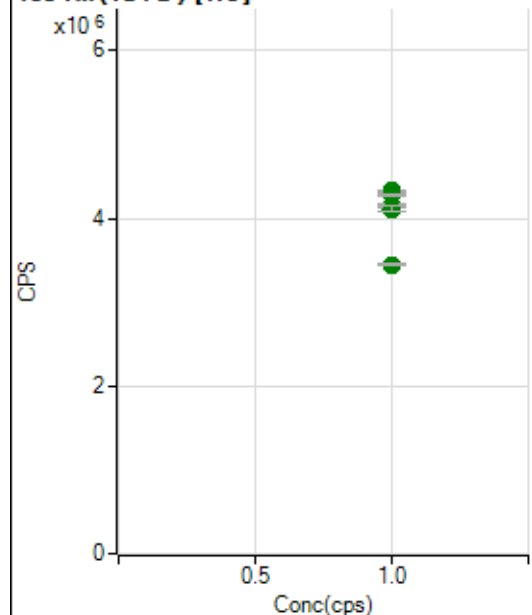
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13743042.16		A	0.6
2	☐	1.000		13866323.54		A	0.5
3	☐	1.000		13804674.52		A	0.3
4	☐	1.000		13606649.10		A	0.7
5	☐	1.000		13715736.60		A	0.4
6	☐	1.000		13715361.32		A	1.0
7	☐	1.000		13842973.54		A	0.5
8	☐	1.000		12161150.51		A	2.9

89 Y (ISTD) [He]

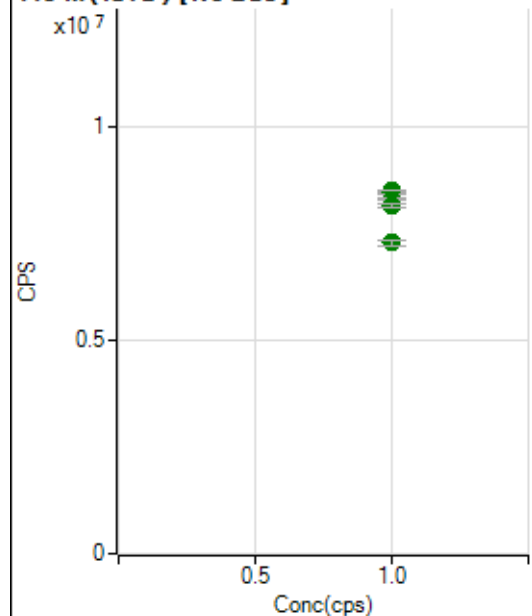
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3251564.26		A	0.4
2	☐	1.000		3276278.11		A	0.6
3	☐	1.000		3225828.81		A	0.8
4	☐	1.000		3158985.23		A	0.4
5	☐	1.000		3199446.79		A	0.9
6	☐	1.000		3166826.48		A	0.8
7	☐	1.000		3218737.49		A	0.8
8	☐	1.000		2904695.69		A	0.6

103 Rh (ISTD) [No Gas]

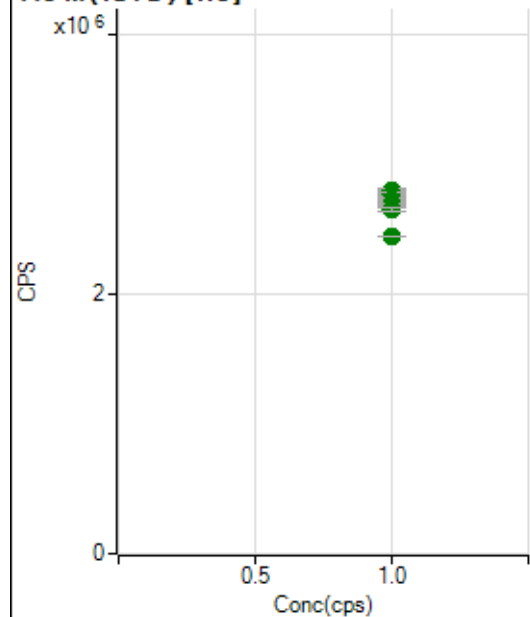
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8009029.18		A	0.6
2	☐	1.000		7993209.46		A	1.1
3	☐	1.000		7878067.59		A	0.5
4	☐	1.000		7714162.18		A	1.0
5	☐	1.000		7671902.04		A	0.6
6	☐	1.000		7561368.57		A	1.5
7	☐	1.000		7488205.86		A	0.6
8	☐	1.000		6319743.93		A	1.8

103 Rh (ISTD) [He]

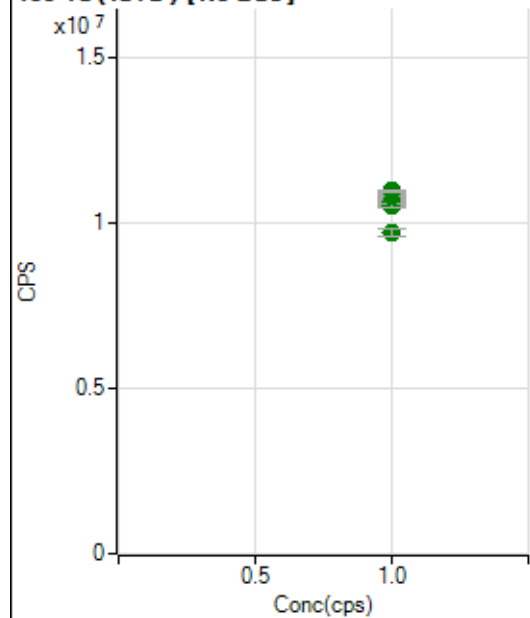
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4326111.53		A	0.6
2	☐	1.000		4310677.75		A	0.5
3	☐	1.000		4279851.15		A	0.5
4	☐	1.000		4158913.48		A	0.8
5	☐	1.000		4158276.01		A	0.8
6	☐	1.000		4098377.41		A	1.3
7	☐	1.000		4115162.16		A	1.9
8	☐	1.000		3447732.80		A	0.5

115 In (ISTD) [No Gas]

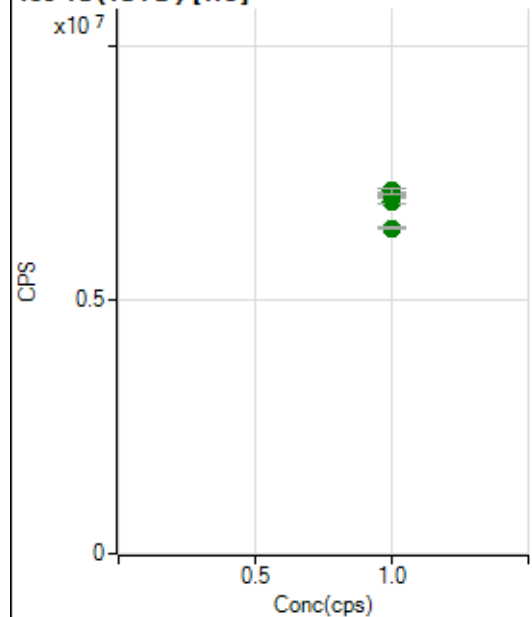
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8495410.54		A	0.9
2	☐	1.000		8427683.56		A	0.1
3	☐	1.000		8450525.76		A	0.9
4	☐	1.000		8286179.73		A	0.4
5	☐	1.000		8296069.56		A	0.5
6	☐	1.000		8158273.14		A	1.2
7	☐	1.000		8145821.89		A	0.7
8	☐	1.000		7272227.79		A	2.0

115 In (ISTD) [He]

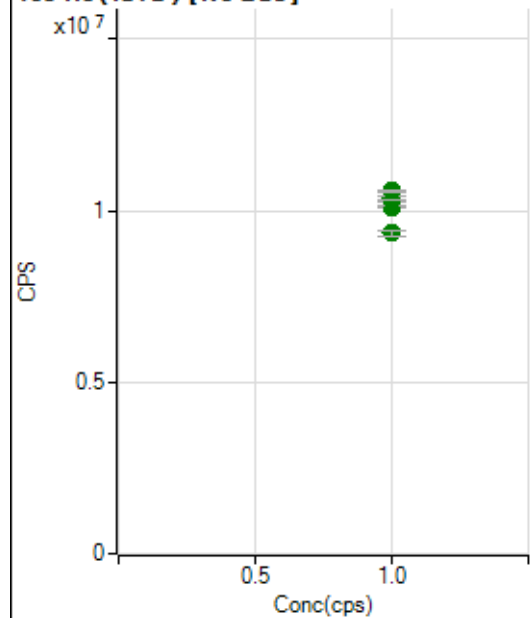
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2777691.66		A	1.9
2	☐	1.000		2799676.39		A	1.4
3	☐	1.000		2776398.38		A	0.9
4	☐	1.000		2735278.57		A	0.4
5	☐	1.000		2708018.86		A	0.6
6	☐	1.000		2694475.23		A	0.9
7	☐	1.000		2658739.87		A	0.9
8	☐	1.000		2449930.83		A	0.5

159 Tb (ISTD) [No Gas]

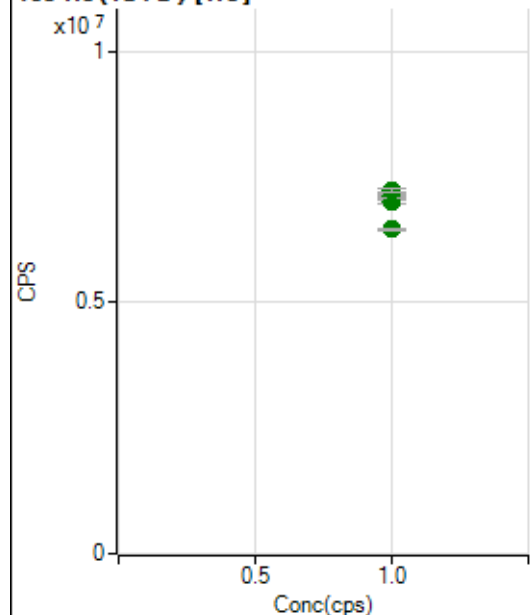
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10551021.51		A	1.0
2	☐	1.000		10544631.03		A	0.5
3	☐	1.000		10606839.01		A	1.0
4	☐	1.000		10514137.28		A	0.6
5	☐	1.000		10818531.23		A	1.2
6	☐	1.000		10835111.09		A	0.2
7	☐	1.000		10957869.00		A	0.6
8	☐	1.000		9707558.61		A	2.4

159 Tb (ISTD) [He]

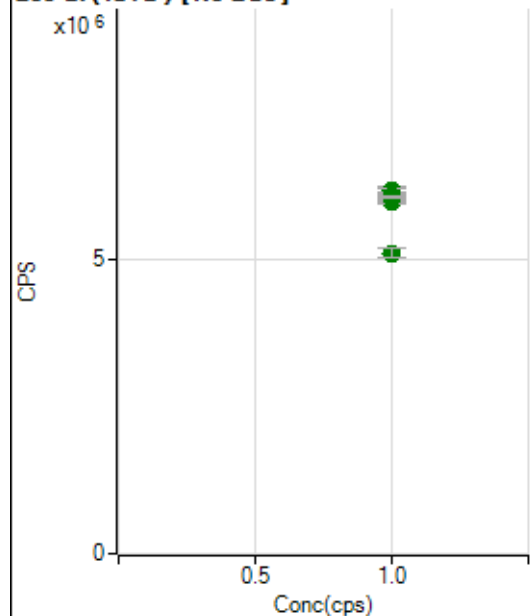
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6961290.94		A	1.2
2	☐	1.000		7077094.97		A	0.6
3	☐	1.000		7080287.05		A	1.2
4	☐	1.000		7036267.53		A	0.5
5	☐	1.000		7100090.59		A	0.1
6	☐	1.000		7096166.15		A	0.4
7	☐	1.000		7157667.12		A	1.3
8	☐	1.000		6429751.78		A	1.1

165 Ho (ISTD) [No Gas]

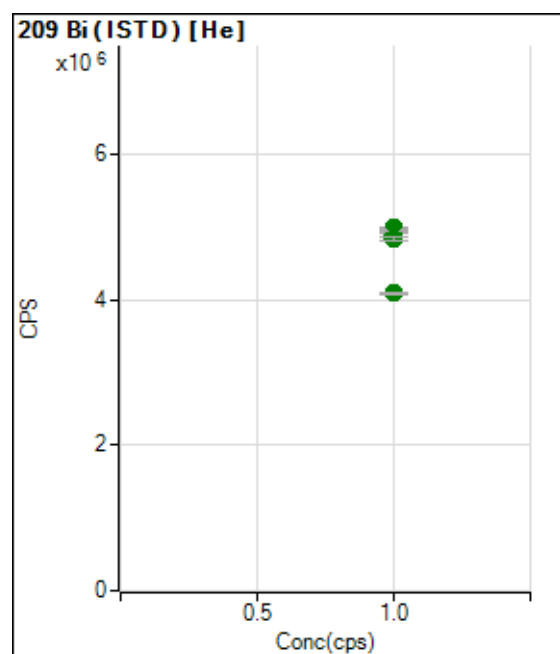
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10105582.07		A	0.7
2	☐	1.000		10113315.33		A	0.2
3	☐	1.000		10135803.39		A	0.3
4	☐	1.000		10287697.28		A	0.8
5	☐	1.000		10350243.04		A	1.0
6	☐	1.000		10361299.43		A	1.2
7	☐	1.000		10576698.52		A	0.5
8	☐	1.000		9346232.99		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7007444.34		A	0.9
2	☐	1.000		7067346.63		A	1.0
3	☐	1.000		7114584.68		A	1.0
4	☐	1.000		7057166.98		A	0.6
5	☐	1.000		7171665.59		A	1.1
6	☐	1.000		7133685.86		A	0.9
7	☐	1.000		7228384.48		A	0.9
8	☐	1.000		6466633.31		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6046572.69		A	0.7
2	☐	1.000		5989977.90		A	0.7
3	☐	1.000		6077776.85		A	1.0
4	☐	1.000		6143702.34		A	0.7
5	☐	1.000		6183529.56		A	2.3
6	☐	1.000		6180255.05		A	1.2
7	☐	1.000		6092012.20		A	0.6
8	☐	1.000		5122582.42		A	3.0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4937771.84		A	0.8
2	☐	1.000		4973686.31		A	0.6
3	☐	1.000		4994699.54		A	0.5
4	☐	1.000		4948018.26		A	0.8
5	☐	1.000		4950675.24		A	0.7
6	☐	1.000		4909939.16		A	1.4
7	☐	1.000		4841294.37		A	0.9
8	☐	1.000		4093137.65		A	0.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7080124-MS.b

Acq. Date-Time 2024-08-01 14:53:24

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7354	73541.33			0.338	5.000
24		41089	410885.17			1.080	5.000
25		5241	52408.46			1.347	5.000
26		5945	59447.09			1.017	5.000
59		76722	767223.31			0.667	5.000
113		11389	113885.98			0.287	5.000
115		132333	1323330.80			0.408	5.000
206		26723	267230.94			0.676	5.000
207		24410	244096.11			0.576	5.000
208		56788	567876.99			0.306	5.000
220		1	7.50			29.814	

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

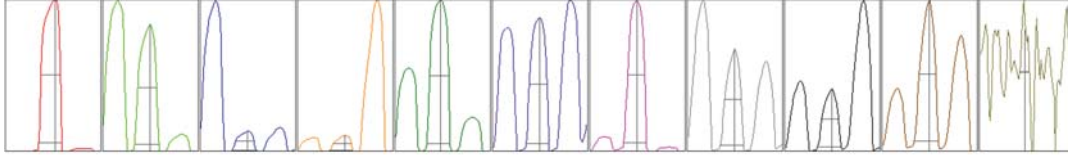
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7347	7395	7358	7334	7337
24	40440	40933	41072	41440	41557
25	5131	5239	5235	5279	5320
26	5861	5912	5966	5966	6019
59	76190	76338	76557	77213	77313
113	11387	11378	11347	11437	11394
115	133008	131593	132608	132049	132407
206	26597	26595	26582	26924	26917
207	24431	24248	24286	24507	24577
208	56651	56628	56714	56934	57011

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12568.55	9.10	8.90 - 9.10	
24	73632.42	24.00	23.90 - 24.10	
25	9635.68	25.00	24.90 - 25.10	
26	11211.49	26.00	25.90 - 26.10	
59	130729.28	58.95	58.90 - 59.10	
113	21276.03	113.00	112.90 - 113.10	
115	252106.09	115.00	114.90 - 115.10	
206	53503.78	206.00	205.90 - 206.10	
207	47476.98	207.00	206.90 - 207.10	
208	113278.99	208.00	207.90 - 208.10	
220	1.00	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.733	0.900	
24	0.60	0.778	0.900	
25	0.58	0.755	0.900	
26	0.56	0.730	0.900	
59	0.61	0.739	0.900	
113	0.55	0.727	0.900	
115	0.52	0.728	0.900	
206	0.52	0.741	0.900	
207	0.52	0.751	0.900	
208	0.52	0.766	0.900	
220	0.32			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.5 V	Deflect	16.6 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	4.6 mV	Analog HV	2320 V	Pulse HV	1449 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		22126	221257.74			0.442	
89		24835	248346.75			0.792	
205		28308	283084.54			0.666	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	22117	22273	22006	22147	22085
89	24967	25030	24705	24913	24558
205	28476	28484	28023	28284	28275

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	3.8 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	4.6 mV	Analog HV	2320 V	Pulse HV	1449 V
---------------	--------	-----------	--------	----------	--------