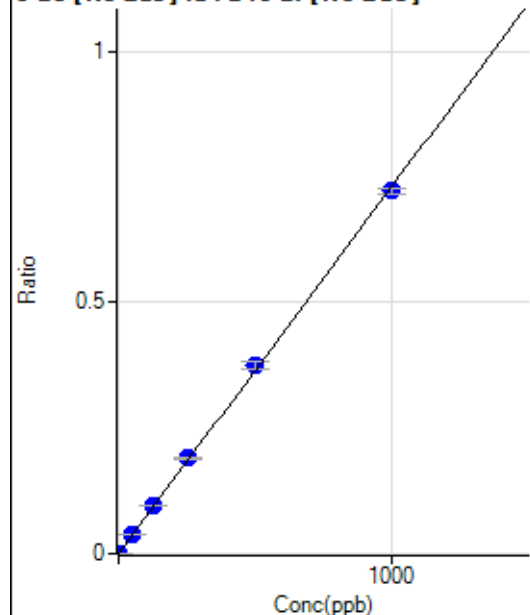


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072820MS.b\
Analysis File: P8072820MS.batch.bin
DA Date-Time: 2020-07-28 12:33:32
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-07-28 10:14:35
2	007CAL.S.d	S02	2020-07-28 10:20:45
3	008CAL.S.d	S03	2020-07-28 10:23:50
4	009CAL.S.d	S04	2020-07-28 10:26:53
5	010CAL.S.d	S05	2020-07-28 10:29:54
6	011CAL.S.d	S06	2020-07-28 10:32:53
7	012CAL.S.d	S07	2020-07-28 10:35:53
8	013CAL.S.d	S08	2020-07-28 10:38:51

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	49.99	0.0000	P	3.8
2	☐	1.000	0.944	901.85	0.0007	P	7.6
3	☐	50.000	51.547	47617.63	0.0376	P	0.9
4	☐	125.000	131.076	120705.14	0.0956	P	1.3
5	☐	250.000	260.452	243153.11	0.1900	P	1.0
6	☐	500.000	514.281	492477.40	0.3751	P	4.7
7	☐	1000.000	989.410	949325.06	0.7215	P	1.3
8	☐			328.61	0.0003	P	9.9

$$y = 7.2922\text{E-}004 * x + 4.0035\text{E-}005$$

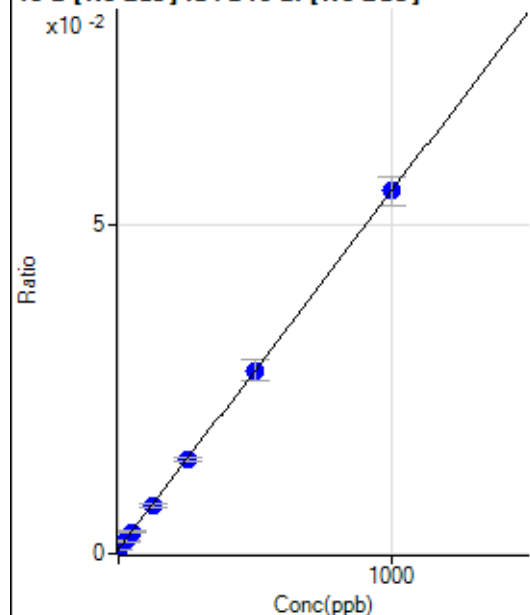
$$R = 0.9998$$

$$DL = 0.006307$$

$$BEC = 0.0549$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	841.19	0.0007	P	2.7
2	☐	25.000	22.757	2371.73	0.0019	P	8.0
3	☐	50.000	48.657	4214.45	0.0033	P	5.5
4	☐	125.000	122.209	9279.77	0.0073	P	7.8
5	☐	250.000	250.949	18409.85	0.0144	P	5.2
6	☐	500.000	499.712	36645.54	0.0280	P	12.0
7	☐	1000.000	1000.379	72731.46	0.0553	P	8.2
8	☐			12371.43	0.0097	P	4.0

$$y = 5.4611\text{E-}005 * x + 6.7370\text{E-}004$$

$$R = 1.0000$$

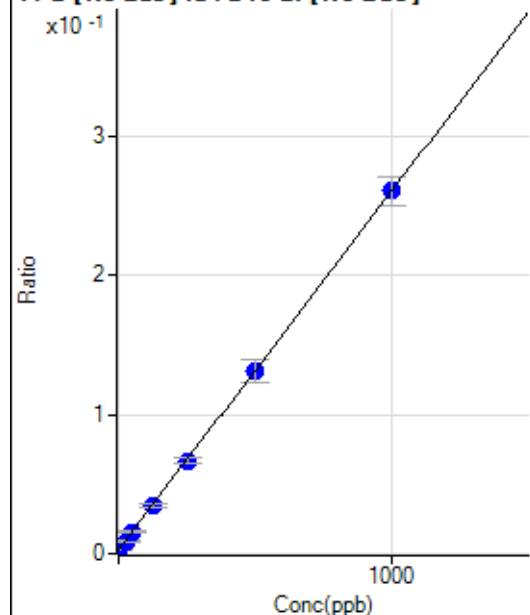
$$DL = 1.011$$

$$BEC = 12.34$$

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	3638.41	0.0029	P	3.3
2	☐	25.000	23.360	11043.97	0.0089	P	6.5
3	☐	50.000	48.756	19540.43	0.0154	P	7.8
4	☐	125.000	121.521	43129.78	0.0341	P	7.2
5	☐	250.000	248.852	85626.77	0.0669	P	7.3
6	☐	500.000	499.332	172001.90	0.1313	P	12.1
7	☐	1000.000	1001.159	342246.85	0.2602	P	7.7
8	☐			57902.65	0.0453	P	4.6

$$y = 2.5703\text{E-}004 * x + 0.0029$$

$$R = 1.0000$$

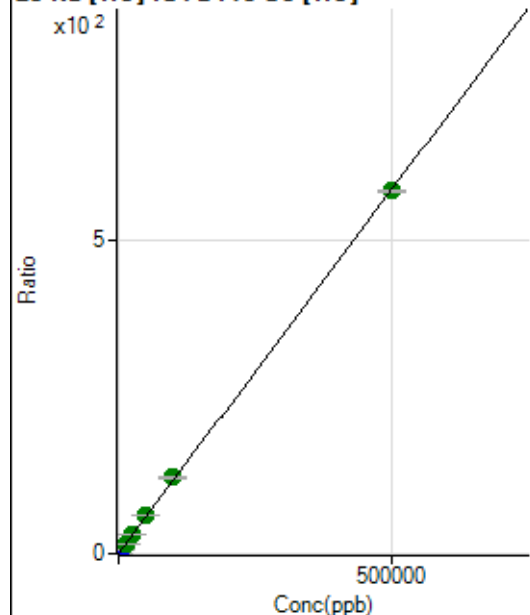
$$DL = 1.119$$

$$BEC = 11.34$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35708.12	0.2489	P	1.0
2	☐	500.000	470.417	115238.89	0.7936	P	1.6
3	☐	5000.000	5502.150	914750.05	6.6197	P	4.4
4	☐	12500.000	13367.106	2213245.95	15.7264	A	1.5
5	☐	25000.000	26780.557	4352351.75	31.2575	A	2.7
6	☐	50000.000	53205.410	8787688.48	61.8542	A	1.5
7	☐	100000.00	104617.31	16909869.48	121.3828	A	2.3
8	☐	500000.00	498640.29	81831696.97	577.6126	A	0.6

$$y = 0.0012 * x + 0.2489$$

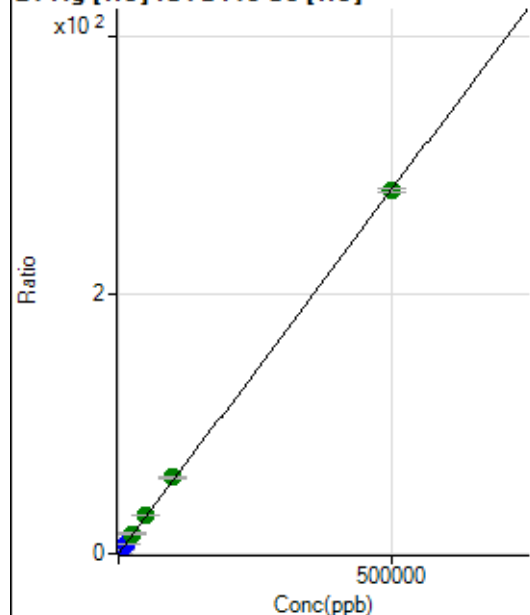
$$R = 0.9999$$

$$DL = 6.591$$

$$BEC = 215$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3025.40	0.0211	P	5.6
2	☐	500.000	479.290	42158.72	0.2903	P	1.8
3	☐	5000.000	5561.015	434661.21	3.1450	P	3.8
4	☐	12500.000	13689.647	1085263.70	7.7113	P	0.6
5	☐	25000.000	27285.404	2136677.91	15.3488	A	3.9
6	☐	50000.000	53417.302	4266214.25	30.0286	A	1.3
7	☐	100000.00	104913.44	8214385.08	58.9569	A	1.6
8	☐	500000.00	498525.98	39678189.77	280.0713	A	1.1

$$y = 5.6176E-004 * x + 0.0211$$

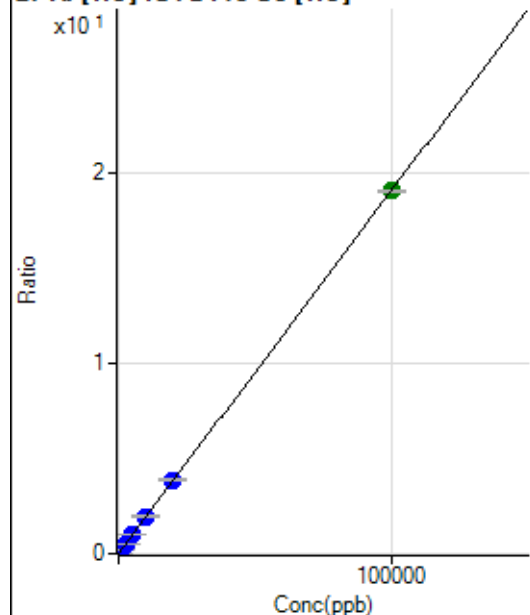
R = 0.9999

DL = 6.313

BEC = 37.54

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1189.82	0.0083	P	2.8
2	☐	20.000	16.726	1668.44	0.0115	P	1.0
3	☐	1000.000	1034.127	28452.69	0.2059	P	4.0
4	☐	2500.000	2579.853	70539.20	0.5012	P	0.3
5	☐	5000.000	5176.406	138864.69	0.9973	P	2.8
6	☐	10000.000	10275.553	280098.16	1.9716	P	1.2
7	☐	20000.000	20262.023	540525.92	3.8796	P	1.7
8	☐	100000.00	99908.883	2705627.49	19.0971	A	0.4

$$y = 1.9106E-004 * x + 0.0083$$

R = 1.0000

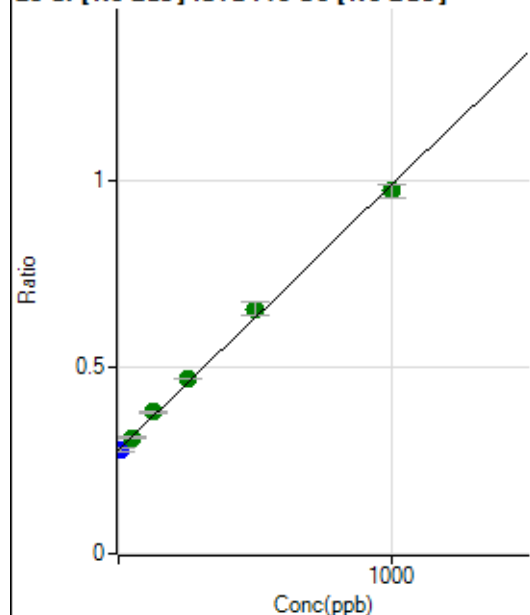
DL = 3.695

BEC = 43.41

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	829452.79	0.2771	P	3.3
2	☐	10.000	0.568	840948.77	0.2775	P	5.2
3	☐	50.000	47.621	965708.47	0.3109	A	1.0
4	☐	125.000	143.283	1156581.56	0.3788	A	2.0
5	☐	250.000	270.400	1464437.91	0.4690	A	0.6
6	☐	500.000	533.007	2026473.18	0.6555	A	5.5
7	☐	1000.000	976.324	3147694.84	0.9702	A	3.7
8	☐			1052602.73	0.3295	A	5.5

$$y = 7.0990\text{E-}004 * x + 0.2771$$

R = 0.9986

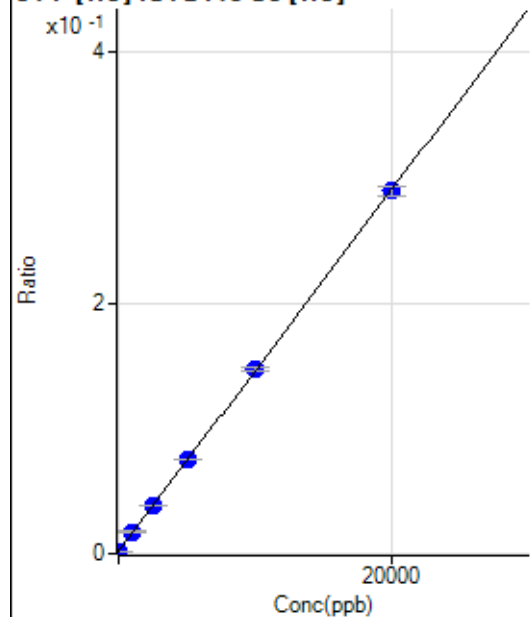
DL = 39.05

BEC = 390.3

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-2.403	263.90	0.0018	P	2.1
2	☐	0.000	2.403	277.79	0.0019	P	31.2
3	☐	1000.000	1084.713	2414.15	0.0175	P	15.7
4	☐	2500.000	2545.237	5428.92	0.0386	P	2.1
5	☐	5000.000	5058.924	10426.25	0.0748	P	0.8
6	☐	10000.000	10064.056	20882.18	0.1470	P	2.2
7	☐	20000.000	19943.351	40326.24	0.2894	P	2.3
8	☐			302.79	0.0021	P	21.7

$$y = 1.4419\text{E-}005 * x + 0.0019$$

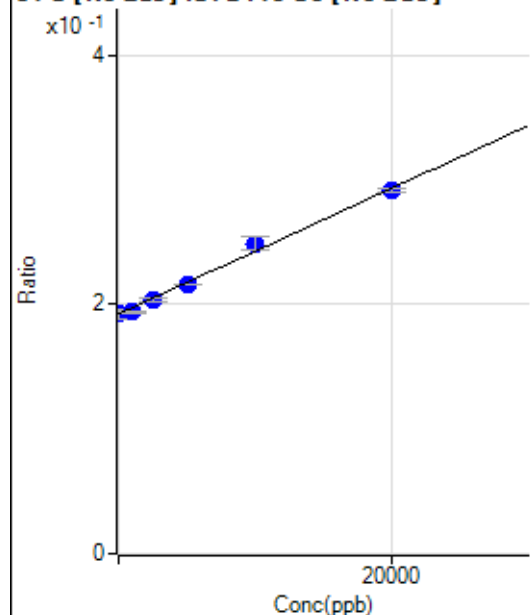
R = 1.0000

DL = 65.9

BEC = 130

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	45.993	577054.28	0.1928	P	3.9
2	☐	0.000	-45.993	583054.41	0.1923	P	4.0
3	☐	1000.000	360.982	603783.49	0.1944	P	0.8
4	☐	2500.000	2217.197	622131.59	0.2037	P	1.7
5	☐	5000.000	4610.790	673869.51	0.2158	P	0.3
6	☐	10000.000	11192.787	770256.73	0.2491	P	4.4
7	☐	20000.000	19568.210	945517.95	0.2913	P	1.2
8	☐			575377.20	0.1801	P	4.6

$$y = 5.0481\text{E-}006 * x + 0.1925$$

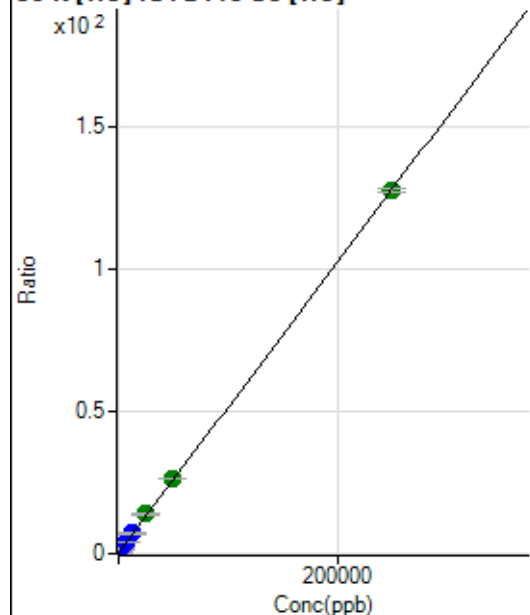
$$R = 0.9967$$

$$DL = 4522$$

$$BEC = 3.814\text{E+}04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44104.46	0.3074	P	2.0
2	☐	500.000	439.656	77189.83	0.5316	P	2.8
3	☐	2500.000	2733.863	235137.02	1.7012	P	3.6
4	☐	6250.000	6718.665	525336.82	3.7327	P	0.4
5	☐	12500.000	13491.806	1000542.93	7.1857	P	2.9
6	☐	25000.000	26659.971	1974560.09	13.8990	A	1.8
7	☐	50000.000	51419.508	3695615.54	26.5218	A	0.7
8	☐	250000.00	249486.57	18062723.84	127.4989	A	1.0

$$y = 5.0981\text{E-}004 * x + 0.3074$$

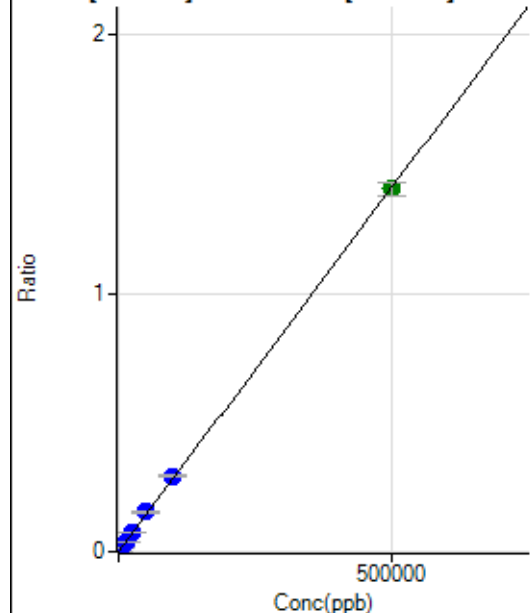
$$R = 1.0000$$

$$DL = 36.87$$

$$BEC = 603$$

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	761.16	0.0003	P	13.6
2	☐	500.000	443.957	4561.96	0.0015	P	3.7
3	☐	5000.000	5227.383	46540.10	0.0150	P	1.9
4	☐	12500.000	13070.806	113230.73	0.0371	P	1.5
5	☐	25000.000	26612.179	234899.40	0.0752	P	0.7
6	☐	50000.000	54797.809	478231.23	0.1546	P	4.9
7	☐	100000.00	104049.43	952395.36	0.2934	P	0.9
8	☐	500000.00	498613.23	4490900.62	1.4051	A	3.7

$$y = 2.8175E-006 * x + 2.5371E-004$$

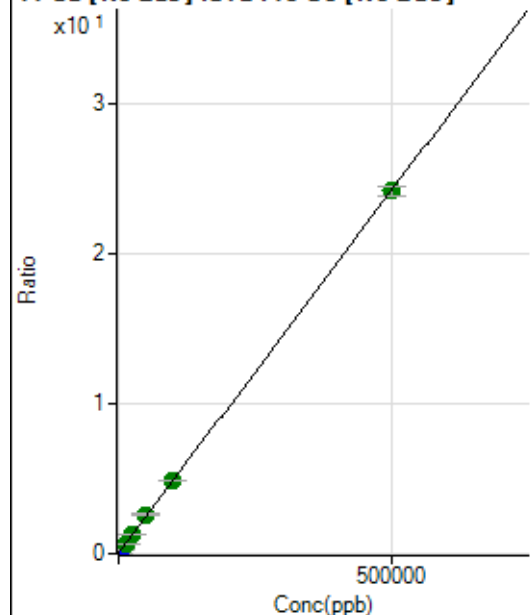
$$R = 0.9999$$

$$DL = 36.74$$

$$BEC = 90.05$$

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	96831.76	0.0324	P	4.4
2	☐	500.000	462.742	165887.98	0.0547	P	3.4
3	☐	5000.000	5296.924	895344.39	0.2882	P	0.3
4	☐	12500.000	12999.993	2016775.65	0.6603	A	0.5
5	☐	25000.000	25890.714	4006030.86	1.2830	A	0.4
6	☐	50000.000	53315.604	8064622.14	2.6078	A	4.6
7	☐	100000.00	100489.47	15861257.47	4.8865	A	0.2
8	☐	500000.00	499510.57	77246706.59	24.1614	A	2.5

$$y = 4.8305E-005 * x + 0.0324$$

$$R = 1.0000$$

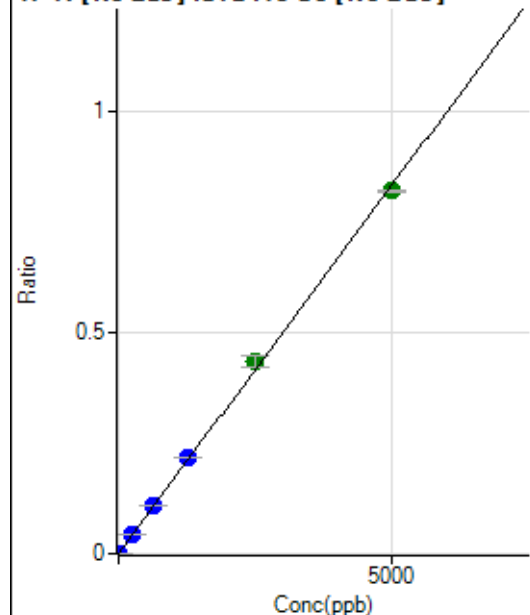
$$DL = 88.71$$

$$BEC = 669.8$$

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	727.81	0.0002	P	16.9
2	☐	5.000	4.750	3133.79	0.0010	P	2.6
3	☐	250.000	251.178	130437.15	0.0420	P	1.2
4	☐	625.000	647.491	329394.05	0.1079	P	0.7
5	☐	1250.000	1298.765	674743.08	0.2161	P	0.6
6	☐	2500.000	2609.760	1341600.83	0.4340	A	6.0
7	☐	5000.000	4930.059	2660654.25	0.8196	A	0.5
8	☐			936.17	0.0003	P	15.8

$$y = 1.6620\text{E-}004 * x + 2.4377\text{E-}004$$

$$R = 0.9996$$

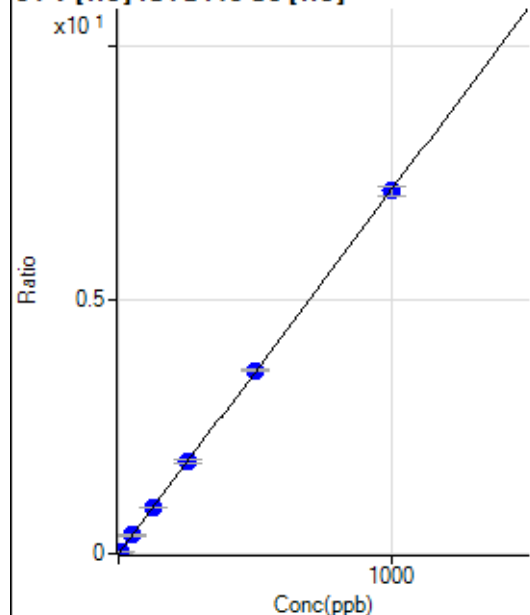
$$DL = 0.7444$$

$$BEC = 1.467$$

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	8.89	0.0001	P	57.1
2	☐	5.000	4.378	4570.77	0.0315	P	1.6
3	☐	50.000	50.891	50490.76	0.3652	P	2.6
4	☐	125.000	125.717	126963.99	0.9021	P	1.1
5	☐	250.000	252.659	252405.54	1.8130	P	3.7
6	☐	500.000	503.153	512924.92	3.6104	P	1.2
7	☐	1000.000	997.628	997213.93	7.1585	P	2.5
8	☐			171.11	0.0012	P	11.8

$$y = 0.0072 * x + 6.1825\text{E-}005$$

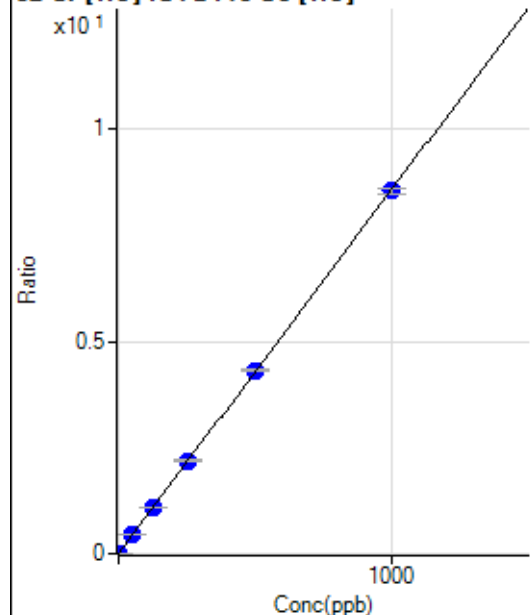
$$R = 1.0000$$

$$DL = 0.01475$$

$$BEC = 0.008616$$

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	761.14	0.0053	P	7.7
2	☐	2.000	1.859	3082.59	0.0212	P	0.8
3	☐	50.000	50.833	60913.54	0.4407	P	3.7
4	☐	125.000	126.516	153269.96	1.0891	P	0.6
5	☐	250.000	254.454	304239.68	2.1850	P	2.8
6	☐	500.000	503.524	613515.05	4.3185	P	1.7
7	☐	1000.000	996.894	1190453.00	8.5448	P	1.8
8	☐			5577.80	0.0394	P	3.3

$$y = 0.0086 * x + 0.0053$$

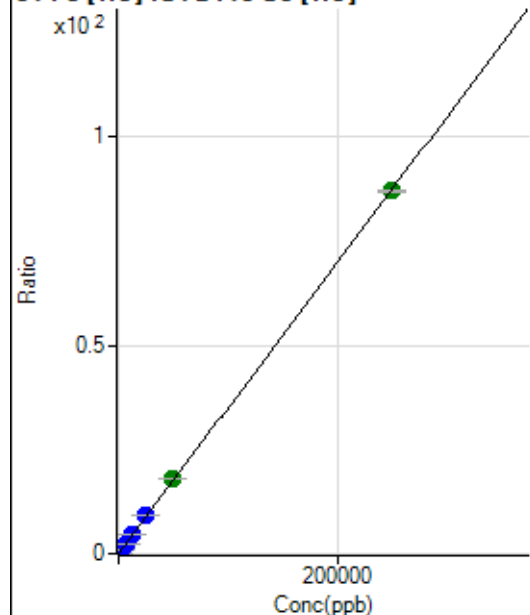
$$R = 1.0000$$

$$DL = 0.1422$$

$$BEC = 0.6194$$

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	637.06	0.0044	P	6.1
2	☐	50.000	43.765	2859.60	0.0197	P	2.9
3	☐	2500.000	2640.688	127750.45	0.9247	P	5.1
4	☐	6250.000	6559.253	322317.51	2.2902	P	0.5
5	☐	12500.000	13214.058	641843.72	4.6092	P	2.5
6	☐	25000.000	26134.161	1294464.15	9.1115	P	1.2
7	☐	50000.000	51751.550	2513329.95	18.0385	A	1.3
8	☐	250000.00	249491.43	12317863.70	86.9458	A	0.5

$$y = 3.4847E-004 * x + 0.0044$$

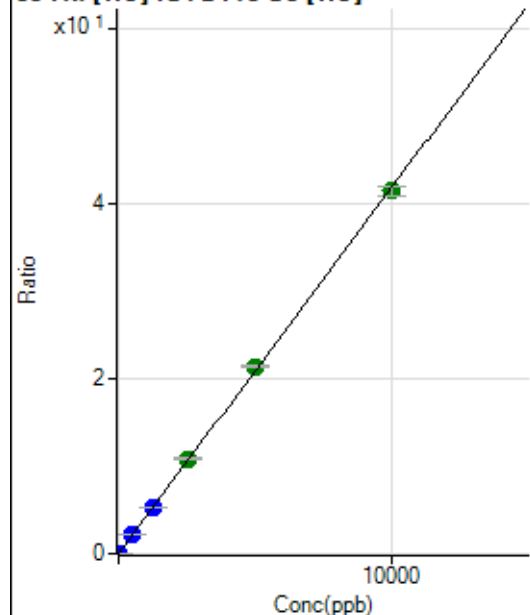
$$R = 1.0000$$

$$DL = 2.322$$

$$BEC = 12.74$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0012	P	8.1
2	☐	1.000	0.848	695.58	0.0048	P	6.7
3	☐	500.000	512.869	296805.06	2.1472	P	2.9
4	☐	1250.000	1272.621	749592.03	5.3261	P	0.7
5	☐	2500.000	2583.312	1505380.31	10.8103	A	2.6
6	☐	5000.000	5121.522	3044735.79	21.4306	A	0.5
7	☐	10000.000	9914.940	5779419.77	41.4870	A	2.3
8	☐			3739.41	0.0264	P	1.2

$$y = 0.0042 * x + 0.0012$$

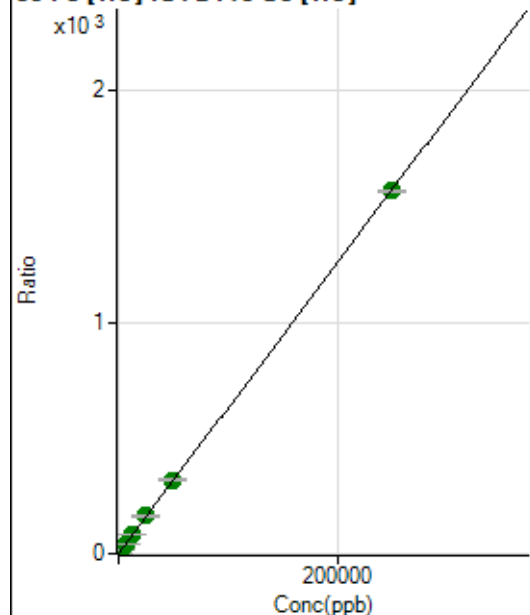
$$R = 0.9998$$

$$DL = 0.07211$$

$$BEC = 0.2961$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5790.16	0.0404	P	6.3
2	☐	50.000	45.655	47486.64	0.3271	P	2.9
3	☐	2500.000	2656.258	2310304.97	16.7198	A	4.6
4	☐	6250.000	6499.476	5749626.92	40.8526	A	0.9
5	☐	12500.000	13014.954	11385961.48	81.7653	A	2.8
6	☐	25000.000	25976.479	23179764.87	163.1547	A	1.4
7	☐	50000.000	50740.638	44389591.27	318.6564	A	2.6
8	☐	250000.00	249720.67	222152242.0	1,568.113	A	0.6

$$y = 0.0063 * x + 0.0404$$

$$R = 1.0000$$

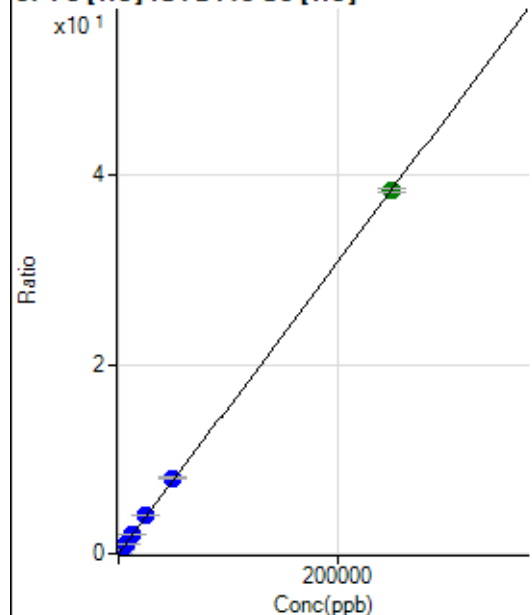
$$DL = 1.206$$

$$BEC = 6.429$$

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	303.71	0.0021	P	19.4
2	☐	50.000	41.712	1238.96	0.0085	P	5.1
3	☐	2500.000	2650.941	56578.73	0.4095	P	5.3
4	☐	6250.000	6593.680	142909.81	1.0154	P	0.5
5	☐	12500.000	13205.963	282909.61	2.0316	P	2.8
6	☐	25000.000	26312.100	574783.30	4.0458	P	1.5
7	☐	50000.000	51617.846	1105368.43	7.9347	P	2.4
8	☐	250000.00	249499.82	5432124.08	38.3452	A	1.1

$$y = 1.5368\text{E-}004 * x + 0.0021$$

$$R = 1.0000$$

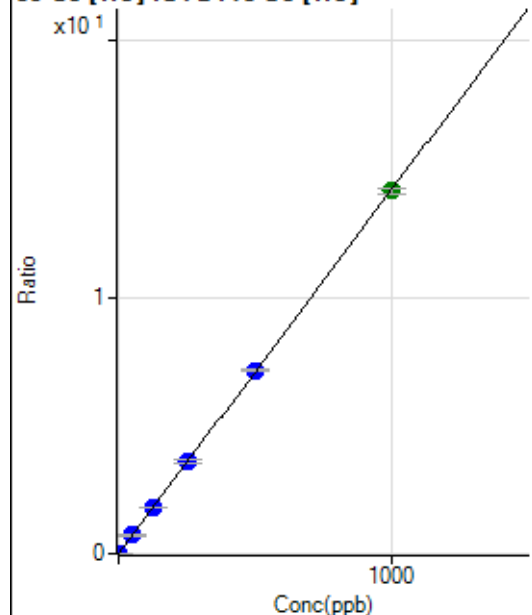
$$DL = 8.016$$

$$BEC = 13.79$$

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	45.56	0.0003	P	25.2
2	☐	1.000	0.893	1883.48	0.0130	P	3.9
3	☐	50.000	50.956	99845.68	0.7226	P	4.9
4	☐	125.000	127.534	254473.07	1.8081	P	0.4
5	☐	250.000	254.351	501951.57	3.6058	P	3.9
6	☐	500.000	502.671	1012364.71	7.1258	P	1.2
7	☐	1000.000	997.212	1969627.05	14.1361	A	1.3
8	☐			3265.96	0.0231	P	2.2

$$y = 0.0142 * x + 3.1727\text{E-}004$$

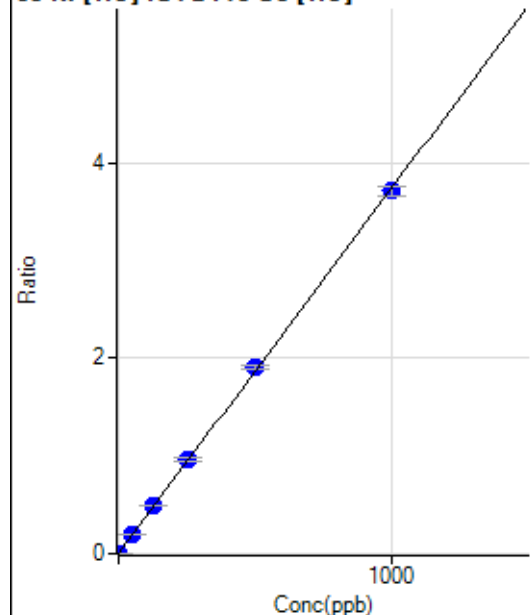
$$R = 1.0000$$

$$DL = 0.01693$$

$$BEC = 0.02238$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	315.56	0.0022	P	1.8
2	☐	1.000	0.837	773.36	0.0053	P	6.0
3	☐	50.000	52.072	27188.25	0.1968	P	4.5
4	☐	125.000	130.309	68832.01	0.4891	P	1.1
5	☐	250.000	256.631	133778.86	0.9611	P	4.3
6	☐	500.000	508.850	270426.25	1.9035	P	1.7
7	☐	1000.000	993.150	517209.59	3.7130	P	2.8
8	☐			1961.26	0.0138	P	5.5

$$y = 0.0037 * x + 0.0022$$

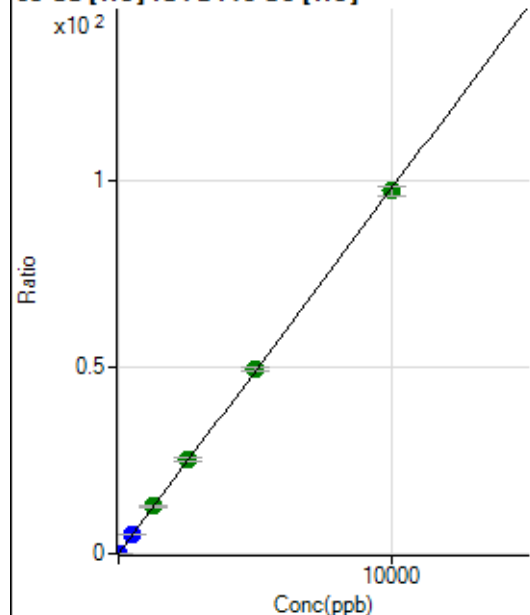
$$R = 0.9999$$

$$DL = 0.03131$$

$$BEC = 0.5887$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	474.46	0.0033	P	9.4
2	☐	2.000	1.903	3184.84	0.0219	P	4.3
3	☐	500.000	523.378	708488.05	5.1271	P	4.4
4	☐	1250.000	1299.311	1790662.02	12.7235	A	1.7
5	☐	2500.000	2571.880	3505899.84	25.1819	A	3.3
6	☐	5000.000	5072.100	7054852.12	49.6589	A	1.8
7	☐	10000.000	9938.647	13554129.38	97.3022	A	2.8
8	☐			4546.33	0.0321	P	4.3

$$y = 0.0098 * x + 0.0033$$

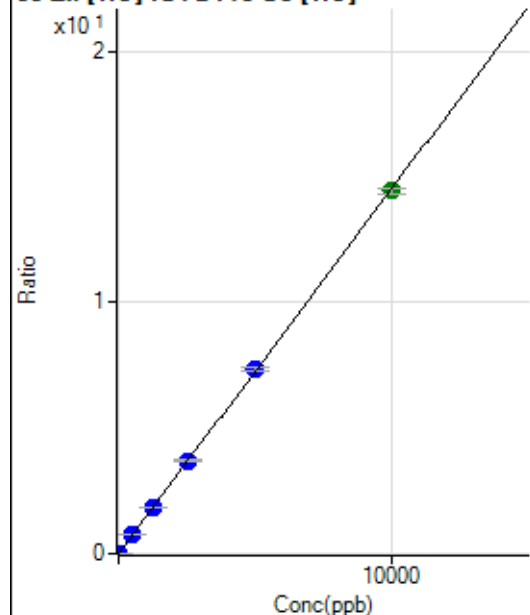
$$R = 0.9999$$

$$DL = 0.09504$$

$$BEC = 0.3378$$

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	180.00	0.0013	P	13.2
2	☐	2.000	1.941	591.13	0.0041	P	1.6
3	☐	500.000	521.422	104725.41	0.7578	P	3.8
4	☐	1250.000	1278.017	261136.57	1.8555	P	0.9
5	☐	2500.000	2549.972	515332.02	3.7010	P	2.7
6	☐	5000.000	5068.996	1045023.39	7.3558	P	1.5
7	☐	10000.000	9948.436	2011122.00	14.4353	A	1.8
8	☐			2162.41	0.0153	P	4.4

$$y = 0.0015 * x + 0.0013$$

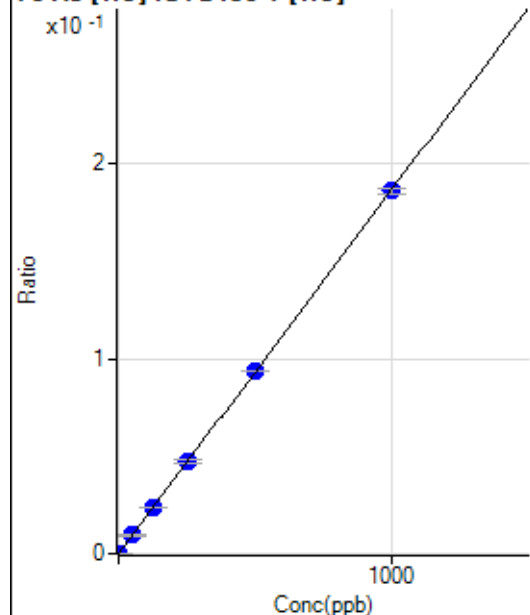
$$R = 1.0000$$

$$DL = 0.3432$$

$$BEC = 0.8651$$

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	10.67	0.0000	P	19.6
2	☐	1.000	0.935	163.02	0.0002	P	5.8
3	☐	50.000	50.736	7921.35	0.0095	P	4.8
4	☐	125.000	127.159	20160.68	0.0237	P	0.3
5	☐	250.000	255.607	39992.22	0.0477	P	4.0
6	☐	500.000	501.335	81039.39	0.0936	P	0.5
7	☐	1000.000	997.624	156955.79	0.1862	P	1.8
8	☐			71.01	0.0001	P	14.2

$$y = 1.8667E-004 * x + 1.2390E-005$$

$$R = 1.0000$$

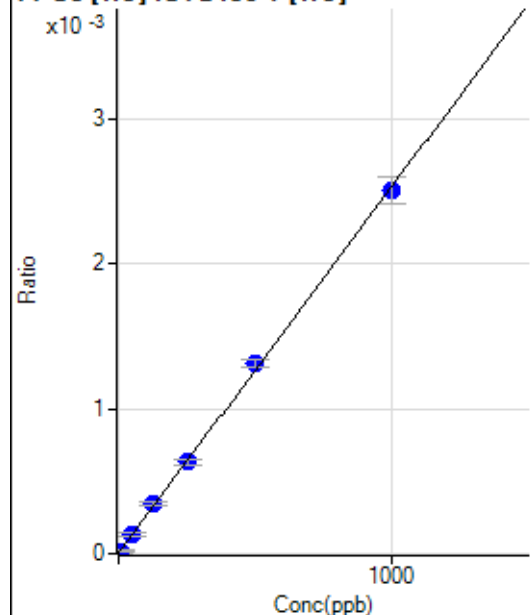
$$DL = 0.03912$$

$$BEC = 0.06637$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.8
2	☐	5.000	5.539	15.55	0.0000	P	24.8
3	☐	50.000	51.721	112.22	0.0001	P	24.8
4	☐	125.000	136.411	295.56	0.0003	P	6.8
5	☐	250.000	248.725	528.91	0.0006	P	6.2
6	☐	500.000	518.691	1136.72	0.0013	P	3.6
7	☐	1000.000	989.458	2106.85	0.0025	P	7.3
8	☐			0.00	0.0000	P	

$$y = 2.5235\text{E-}006 * x + 3.8494\text{E-}006$$

$$R = 0.9997$$

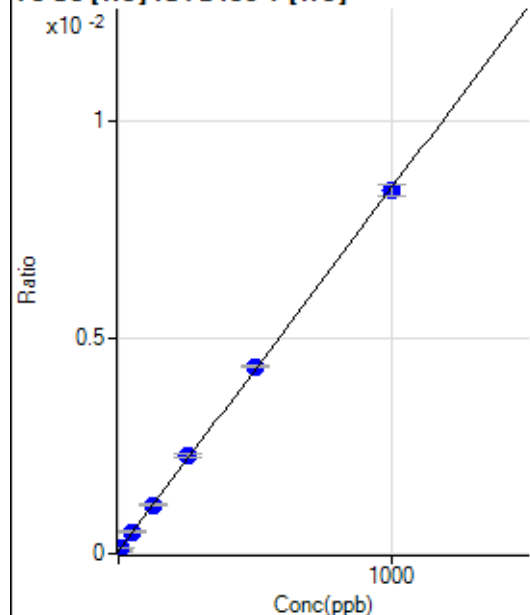
$$DL = 4.567$$

$$BEC = 1.525$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.34	0.0001	P	12.4
2	☐	5.000	5.813	98.68	0.0001	P	2.2
3	☐	50.000	51.911	417.38	0.0005	P	9.4
4	☐	125.000	126.929	959.13	0.0011	P	3.2
5	☐	250.000	262.620	1901.66	0.0023	P	4.1
6	☐	500.000	508.823	3754.88	0.0043	P	0.9
7	☐	1000.000	992.093	7073.49	0.0084	P	3.0
8	☐			70.34	0.0001	P	9.1

$$y = 8.3967\text{E-}006 * x + 6.4283\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.84$$

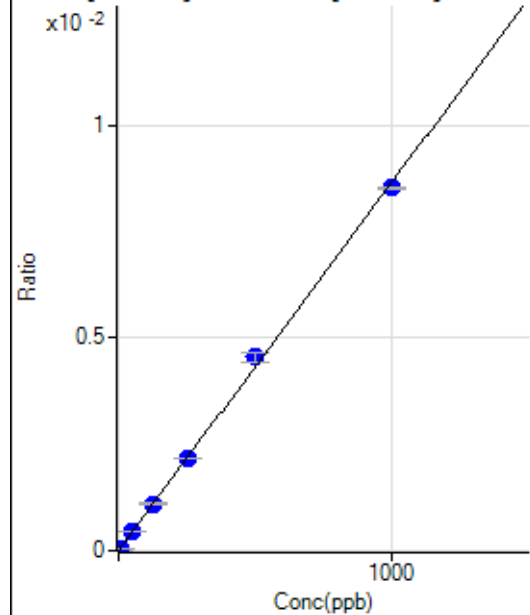
$$BEC = 7.656$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4238.34		P	6.9
2	☐			4154.91		P	1.2
3	☐			4261.71		P	2.3
4	☐			4091.48		P	9.1
5	☐			4128.20		P	3.8
6	☐			4114.88		P	3.9
7	☐			3811.13		P	2.9
8	☐			4512.04		P	6.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.70	0.0000	P	531.
2	☐	5.000	4.142	250.75	0.0000	P	33.5
3	☐	50.000	51.121	2947.89	0.0004	P	1.6
4	☐	125.000	127.706	7297.32	0.0011	P	3.4
5	☐	250.000	251.002	14742.23	0.0022	P	0.5
6	☐	500.000	526.158	29888.77	0.0045	P	5.5
7	☐	1000.000	986.281	58835.26	0.0085	P	0.3
8	☐			13.95	0.0000	P	224.

$$y = 8.6405E-006 * x + 2.5152E-006$$

$$R = 0.9995$$

$$DL = 4.639$$

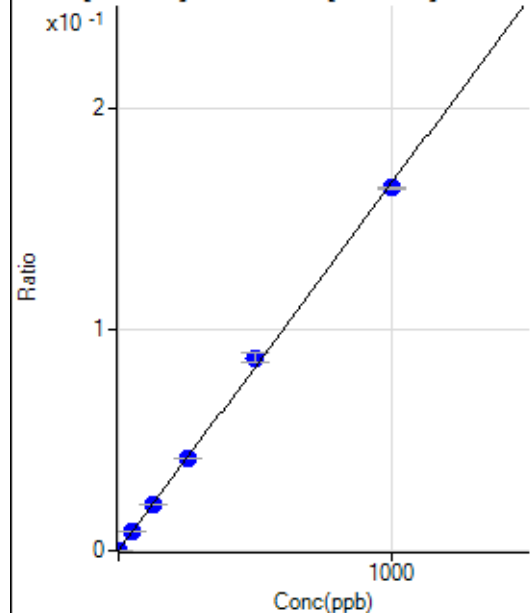
$$BEC = 0.2911$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			335.56		P	23.6
2	☐			390.01		P	12.9
3	☐			375.56		P	6.5
4	☐			364.45		P	8.8
5	☐			417.79		P	11.5
6	☐			352.23		P	8.6
7	☐			373.34		P	5.6
8	☐			381.12		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	538.92	0.0001	P	2.7
2	☐	1.000	1.005	1622.36	0.0003	P	18.9
3	☐	50.000	50.070	55803.79	0.0084	P	2.2
4	☐	125.000	125.936	138697.98	0.0210	P	2.8
5	☐	250.000	251.506	284471.64	0.0419	P	0.5
6	☐	500.000	524.153	573277.61	0.0872	P	4.8
7	☐	1000.000	987.427	1133619.85	0.1642	P	0.7
8	☐			6879.64	0.0010	P	3.5

$$y = 1.6626E-004 * x + 8.3899E-005$$

$$R = 0.9996$$

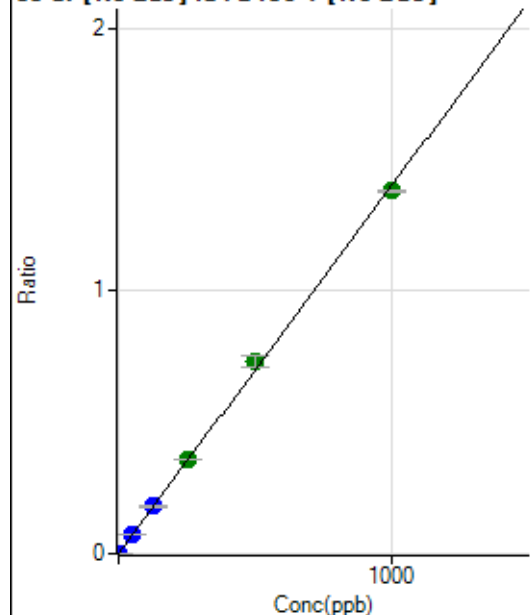
$$DL = 0.04064$$

$$BEC = 0.5046$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	66.67	0.0000	P	31.8
2	☐	1.000	0.972	8897.53	0.0014	P	1.4
3	☐	50.000	50.654	470479.74	0.0709	P	0.6
4	☐	125.000	128.972	1191007.25	0.1805	P	1.8
5	☐	250.000	255.554	2428186.08	0.3576	A	0.3
6	☐	500.000	522.856	4808298.98	0.7317	A	5.1
7	☐	1000.000	986.654	9529558.37	1.3807	A	0.5
8	☐			51897.01	0.0076	P	3.7

$$y = 0.0014 * x + 1.0351E-005$$

$$R = 0.9996$$

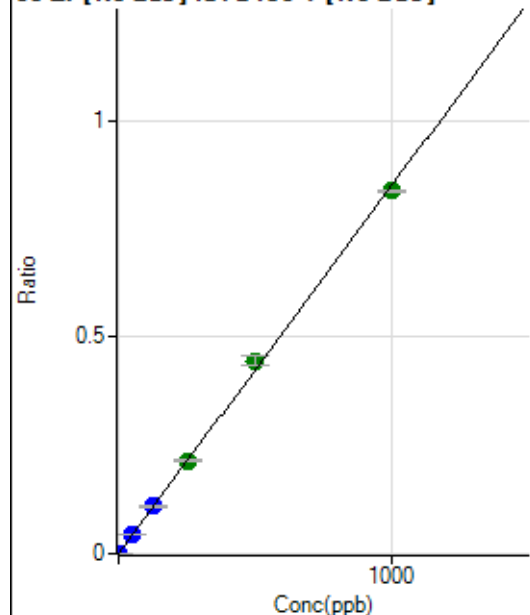
$$DL = 0.007051$$

$$BEC = 0.007397$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	275.01	0.0000	P	20.7
2	☐	1.000	0.971	5620.77	0.0009	P	5.6
3	☐	50.000	50.215	283092.20	0.0427	P	1.1
4	☐	125.000	128.698	720911.63	0.1093	P	2.5
5	☐	250.000	251.962	1451925.53	0.2139	A	2.1
6	☐	500.000	525.278	2929701.15	0.4458	A	4.8
7	☐	1000.000	986.398	5777777.39	0.8371	A	0.6
8	☐			1744.60	0.0003	P	8.1

$$y = 8.4862E-004 * x + 4.2742E-005$$

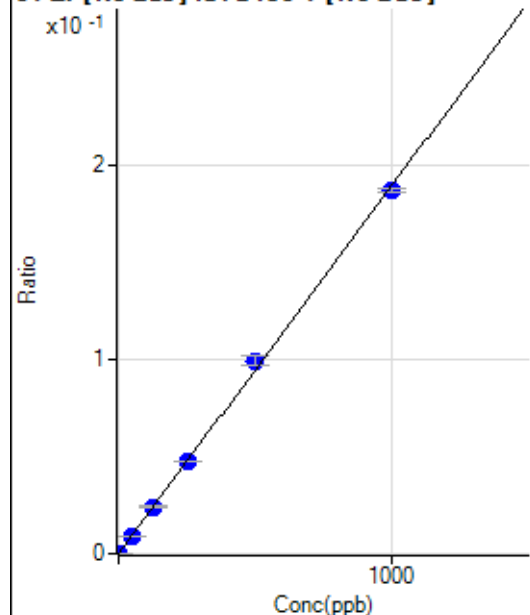
$$R = 0.9995$$

$$DL = 0.03122$$

$$BEC = 0.05037$$

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	75.00	0.0000	P	28.1
2	☐	1.000	0.938	1227.86	0.0002	P	12.1
3	☐	50.000	49.143	61837.78	0.0093	P	1.6
4	☐	125.000	127.482	159373.91	0.0242	P	2.2
5	☐	250.000	249.845	321322.91	0.0473	P	0.6
6	☐	500.000	525.576	654237.88	0.0995	P	4.5
7	☐	1000.000	986.983	1290093.82	0.1869	P	1.1
8	☐			408.35	0.0001	P	18.5

$$y = 1.8938\text{E-}004 * x + 1.1649\text{E-}005$$

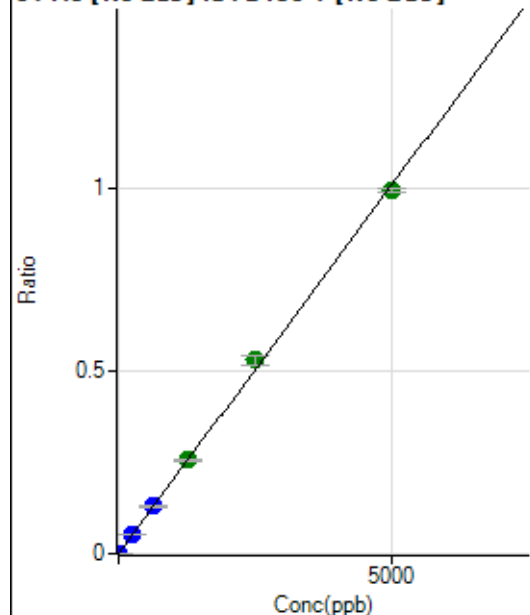
$$R = 0.9995$$

$$DL = 0.05193$$

$$BEC = 0.06151$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	166.67	0.0000	P	24.7
2	☐	5.000	4.935	6615.62	0.0010	P	4.2
3	☐	250.000	253.100	338524.56	0.0510	P	0.9
4	☐	625.000	643.539	855589.85	0.1297	P	1.8
5	☐	1250.000	1272.717	1740792.01	0.2564	A	2.3
6	☐	2500.000	2632.916	3485380.59	0.5304	A	5.2
7	☐	5000.000	4925.391	6848031.23	0.9922	A	0.9
8	☐			2144.68	0.0003	P	7.0

$$y = 2.0144\text{E-}004 * x + 2.5892\text{E-}005$$

$$R = 0.9995$$

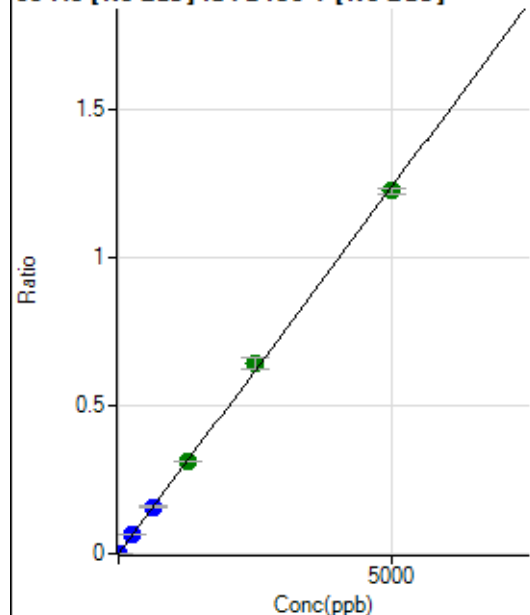
$$DL = 0.09514$$

$$BEC = 0.1285$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	22.1
2	☐	5.000	4.628	7479.98	0.0012	P	5.6
3	☐	250.000	251.078	411849.38	0.0621	P	0.7
4	☐	625.000	638.212	1040819.38	0.1577	P	1.9
5	☐	1250.000	1258.887	2112288.24	0.3111	A	1.7
6	☐	2500.000	2594.608	4212678.96	0.6412	A	6.1
7	☐	5000.000	4948.769	8440941.07	1.2230	A	1.6
8	☐			2566.98	0.0004	P	6.4

$$y = 2.4714\text{E-}004 * x + 8.6384\text{E-}006$$

$$R = 0.9997$$

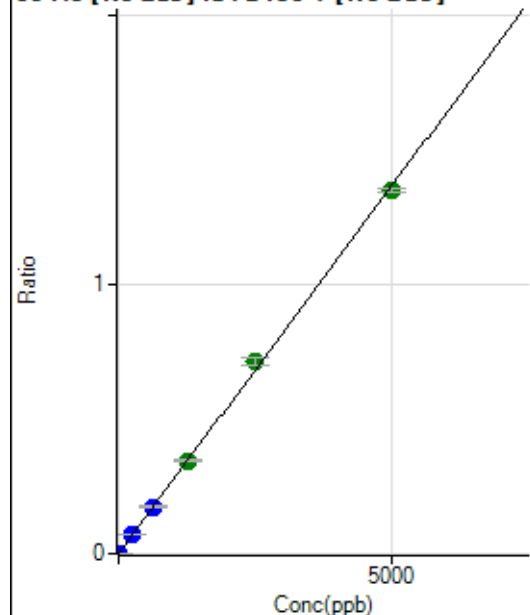
$$DL = 0.02321$$

$$BEC = 0.03495$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	15.6
2	☐	5.000	4.668	8338.85	0.0013	P	4.3
3	☐	250.000	249.652	452839.84	0.0682	P	0.1
4	☐	625.000	637.996	1150542.63	0.1744	P	2.0
5	☐	1250.000	1261.506	2340654.52	0.3448	A	1.6
6	☐	2500.000	2618.225	4702571.25	0.7155	A	4.6
7	☐	5000.000	4936.404	9310818.18	1.3491	A	1.2
8	☐			3492.21	0.0005	P	4.3

$$y = 2.7328\text{E-}004 * x + 9.9502\text{E-}006$$

$$R = 0.9996$$

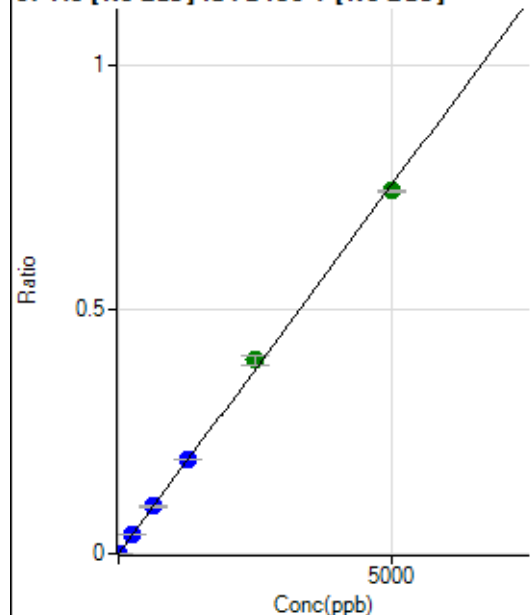
$$DL = 0.01702$$

$$BEC = 0.03641$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	17.8
2	☐	5.000	4.623	4542.53	0.0007	P	7.5
3	☐	250.000	250.235	250143.69	0.0377	P	0.2
4	☐	625.000	641.054	637103.72	0.0966	P	2.1
5	☐	1250.000	1280.876	1309833.48	0.1929	P	0.3
6	☐	2500.000	2633.747	2606678.49	0.3967	A	5.1
7	☐	5000.000	4923.389	5117841.56	0.7415	A	0.5
8	☐			1497.34	0.0002	P	4.7

$$y = 1.5061\text{E-}004 * x + 4.3262\text{E-}006$$

$$R = 0.9994$$

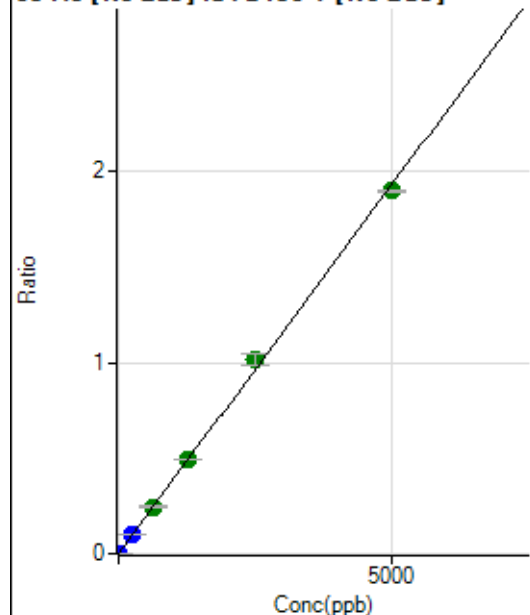
$$DL = 0.01537$$

$$BEC = 0.02872$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	27.5
2	☐	5.000	4.605	11571.79	0.0018	P	6.4
3	☐	250.000	251.253	642883.37	0.0969	P	0.7
4	☐	625.000	638.166	1623422.68	0.2460	A	2.6
5	☐	1250.000	1281.210	3353537.71	0.4939	A	1.0
6	☐	2500.000	2638.753	6684807.44	1.0173	A	5.4
7	☐	5000.000	4921.113	13094015.48	1.8972	A	0.2
8	☐			3817.31	0.0006	P	10.5

$$y = 3.8551\text{E-}004 * x + 9.9493\text{E-}006$$

$$R = 0.9994$$

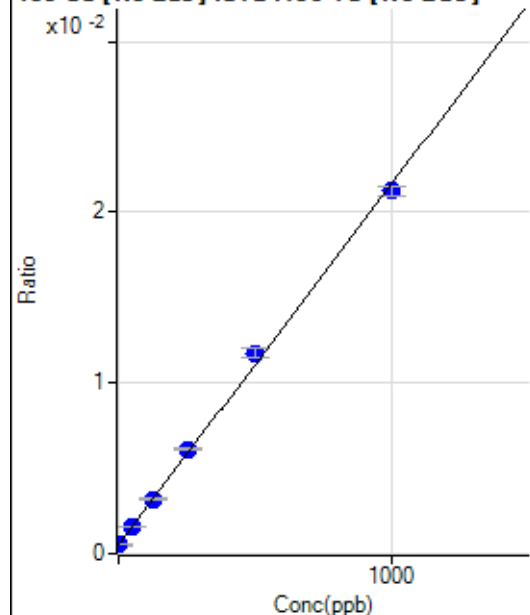
$$DL = 0.02128$$

$$BEC = 0.02581$$

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	1841.85	0.0005	P	11.9
2	☐	1.000	0.681	1919.64	0.0005	P	8.1
3	☐	50.000	50.485	5698.55	0.0016	P	1.5
4	☐	125.000	126.693	11316.02	0.0032	P	3.8
5	☐	250.000	263.720	22009.74	0.0061	P	2.4
6	☐	500.000	531.677	42939.75	0.0118	P	4.6
7	☐	1000.000	980.496	81842.47	0.0213	P	3.0
8	☐			1789.06	0.0005	P	5.5

$$y = 2.1138E-005 * x + 5.2859E-004$$

$$R = 0.9991$$

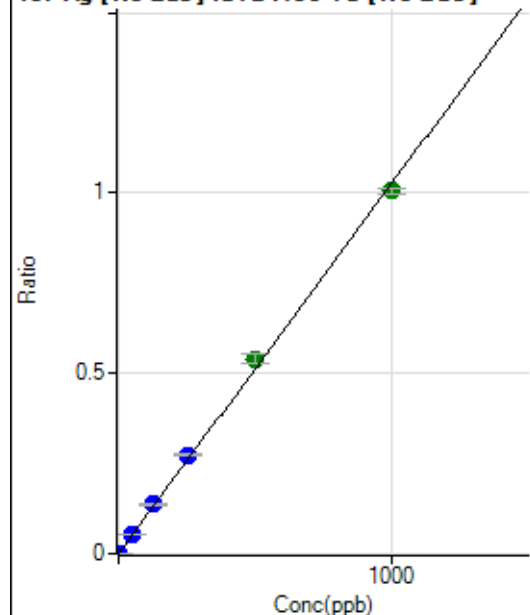
$$DL = 8.926$$

$$BEC = 25.01$$

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	30.56	0.0000	P	31.1
2	☐	1.000	0.959	3500.54	0.0010	P	3.8
3	☐	50.000	51.713	189329.37	0.0530	P	1.8
4	☐	125.000	133.700	483730.32	0.1371	P	2.3
5	☐	250.000	267.099	987503.26	0.2738	P	1.7
6	☐	500.000	527.562	1973629.75	0.5408	A	4.3
7	☐	1000.000	980.771	3871841.32	1.0054	A	1.9
8	☐			1780.72	0.0005	P	8.9

$$y = 0.0010 * x + 8.7567E-006$$

$$R = 0.9992$$

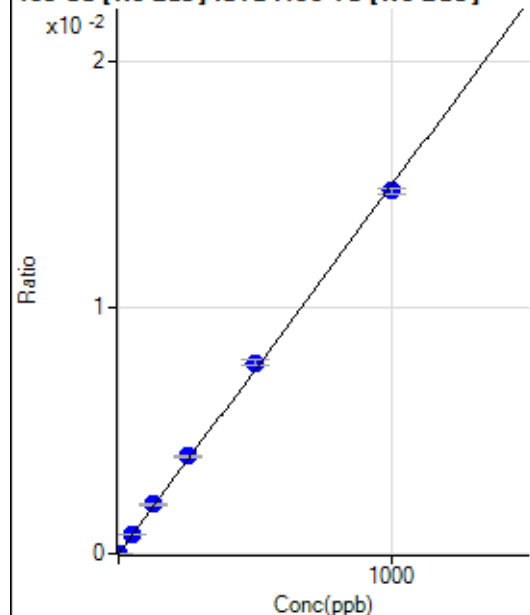
$$DL = 0.007966$$

$$BEC = 0.008542$$

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	13.89	0.0000	P	35.2
2	☐	1.000	0.947	63.89	0.0000	P	6.2
3	☐	50.000	52.749	2826.71	0.0008	P	0.9
4	☐	125.000	134.498	7099.15	0.0020	P	4.2
5	☐	250.000	264.354	14247.76	0.0039	P	3.0
6	☐	500.000	519.380	28311.08	0.0078	P	3.6
7	☐	1000.000	985.397	56661.72	0.0147	P	1.6
8	☐			86.11	0.0000	P	19.0

$$y = 1.4927\text{E-}005 * x + 3.9897\text{E-}006$$

$$R = 0.9996$$

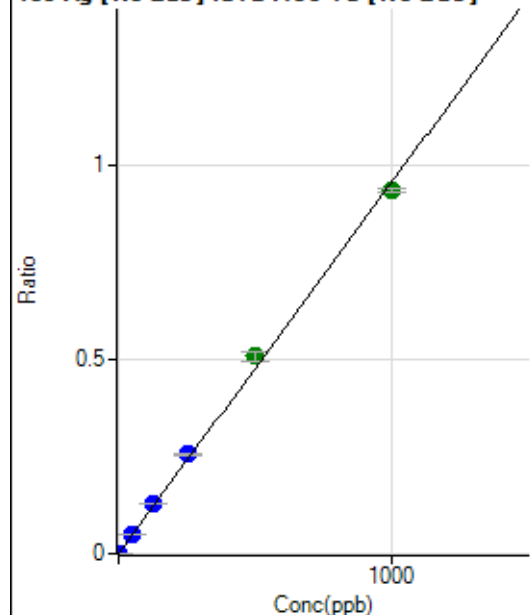
$$DL = 0.2819$$

$$BEC = 0.2673$$

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	11.11	0.0000	P	173.
2	☐	1.000	0.984	3331.05	0.0009	P	4.7
3	☐	50.000	52.794	180290.97	0.0505	P	3.0
4	☐	125.000	134.548	454214.94	0.1287	P	1.1
5	☐	250.000	269.212	928643.82	0.2575	P	1.7
6	☐	500.000	531.785	1855762.89	0.5086	A	4.9
7	☐	1000.000	977.971	3602396.78	0.9354	A	1.2
8	☐			1722.38	0.0005	P	10.3

$$y = 9.5642\text{E-}004 * x + 3.2244\text{E-}006$$

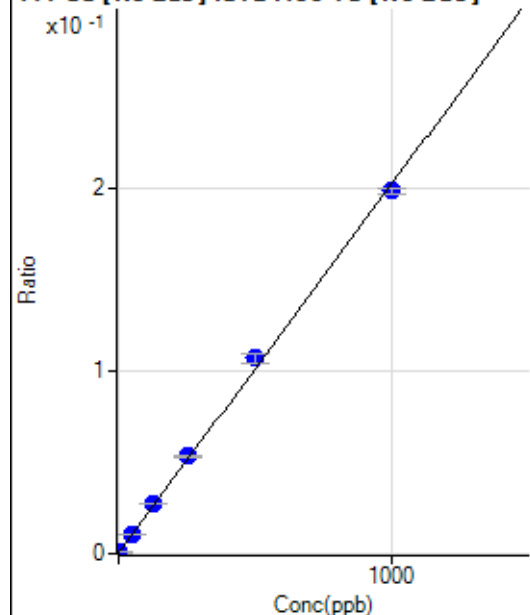
$$R = 0.9990$$

$$DL = 0.01752$$

$$BEC = 0.003371$$

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	1293.46	0.0004	P	11.8
2	☐	1.000	0.948	1987.94	0.0006	P	5.2
3	☐	50.000	51.722	38625.73	0.0108	P	1.5
4	☐	125.000	131.846	95290.76	0.0270	P	0.8
5	☐	250.000	263.402	193172.79	0.0536	P	2.1
6	☐	500.000	527.568	390090.15	0.1069	P	4.9
7	☐	1000.000	981.924	765095.31	0.1987	P	1.8
8	☐			1496.24	0.0004	P	5.1

$$y = 2.0195\text{E-}004 * x + 3.7121\text{E-}004$$

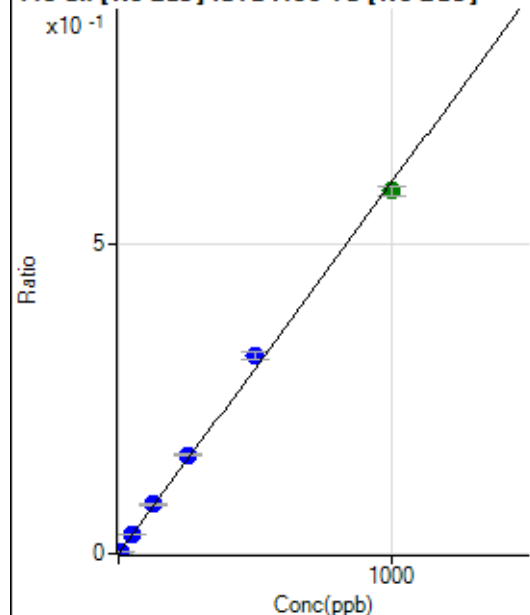
$$R = 0.9993$$

$$DL = 0.6526$$

$$BEC = 1.838$$

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	319.46	0.0001	P	11.6
2	☐	5.000	4.871	10626.58	0.0030	P	5.1
3	☐	50.000	51.306	110261.81	0.0309	P	2.3
4	☐	125.000	132.925	281843.06	0.0799	P	2.0
5	☐	250.000	265.459	574824.69	0.1594	P	1.7
6	☐	500.000	534.406	1170826.63	0.3208	P	3.3
7	☐	1000.000	977.877	2260058.19	0.5869	A	2.3
8	☐			566.69	0.0002	P	10.6

$$y = 6.0007\text{E-}004 * x + 9.1687\text{E-}005$$

$$R = 0.9989$$

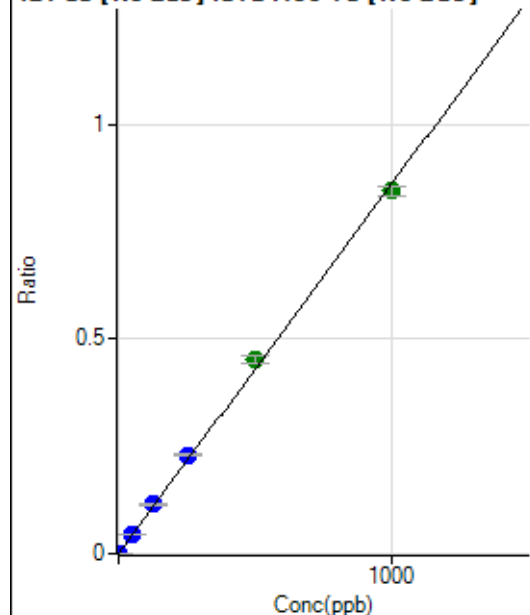
$$DL = 0.05333$$

$$BEC = 0.1528$$

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	19.45	0.0000	P	108.
2	☐	2.000	1.753	5342.85	0.0015	P	4.2
3	☐	50.000	51.372	157969.15	0.0442	P	1.9
4	☐	125.000	133.188	404771.06	0.1147	P	1.6
5	☐	250.000	267.609	831031.04	0.2304	P	1.4
6	☐	500.000	524.967	1649757.94	0.4520	A	3.4
7	☐	1000.000	982.023	3256021.40	0.8455	A	2.3
8	☐			2089.11	0.0006	P	12.4

$$y = 8.6099\text{E-}004 * x + 5.5478\text{E-}006$$

$$R = 0.9993$$

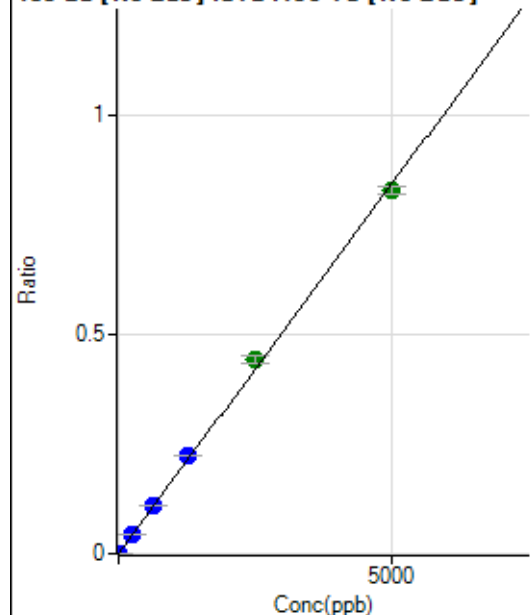
$$DL = 0.02087$$

$$BEC = 0.006444$$

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	36.11	0.0000	P	47.5
2	☐	10.000	8.873	5292.87	0.0015	P	6.9
3	☐	250.000	256.268	153898.10	0.0431	P	1.3
4	☐	625.000	657.897	390427.98	0.1106	P	1.6
5	☐	1250.000	1324.704	803325.22	0.2227	P	0.9
6	☐	2500.000	2630.580	1614332.86	0.4423	A	3.5
7	☐	5000.000	4911.611	3180056.56	0.8258	A	2.2
8	☐			5448.47	0.0014	P	2.5

$$y = 1.6812\text{E-}004 * x + 1.0325\text{E-}005$$

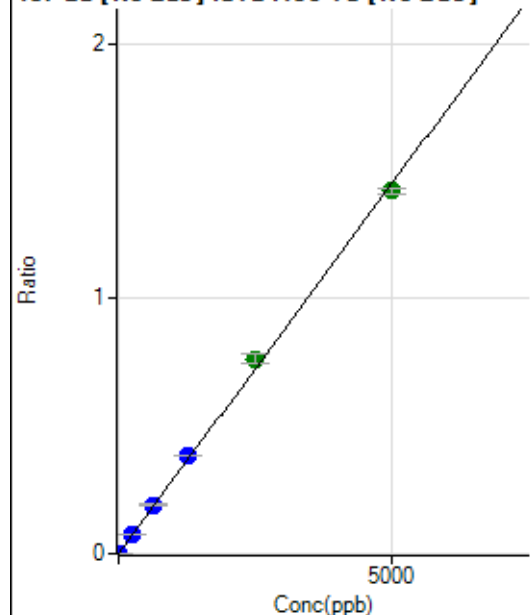
$$R = 0.9993$$

$$DL = 0.08749$$

$$BEC = 0.06141$$

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	38.89	0.0000	P	48.9
2	☐	10.000	9.622	9878.82	0.0028	P	4.9
3	☐	250.000	255.325	264461.09	0.0741	P	3.4
4	☐	625.000	660.699	676436.44	0.1917	P	1.9
5	☐	1250.000	1325.203	1386541.38	0.3844	P	0.7
6	☐	2500.000	2636.202	2790397.44	0.7647	A	4.7
7	☐	5000.000	4908.370	5483090.66	1.4238	A	1.9
8	☐			9792.71	0.0026	P	1.4

$$y = 2.9007E-004 * x + 1.1116E-005$$

$$R = 0.9993$$

$$DL = 0.05623$$

$$BEC = 0.03832$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8.89		P	43.3
2	☐			6.67		P	173.
3	☐			17.78		P	21.7
4	☐			22.22		P	69.3
5	☐			26.67		P	0.0
6	☐			60.00		P	29.4
7	☐			131.12		P	17.9
8	☐			17.78		P	21.7

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			2.22		P	173.
4	☐			3.33		P	0.0
5	☐			4.44		P	114.
6	☐			10.00		P	33.3
7	☐			18.89		P	20.4
8	☐			4.44		P	114.

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐			5.55		P	86.6
3	☐			16.67		P	50.0
4	☐			13.89		P	34.7
5	☐			30.55		P	15.7
6	☐			50.00		P	50.0
7	☐			105.56		P	16.4
8	☐			108.33		P	35.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	173.
3	☐			1.11		P	173.
4	☐			3.33		P	0.0
5	☐			11.11		P	69.3
6	☐			20.00		P	28.9
7	☐			30.00		P	22.2
8	☐			105.56		P	7.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	74.2
2	☐			52.78		P	39.7
3	☐			69.44		P	38.6
4	☐			88.89		P	43.3
5	☐			66.67		P	25.0
6	☐			36.11		P	48.0
7	☐			100.00		P	52.0
8	☐			269.46		P	23.6

160 Gd [He] No available calibration points

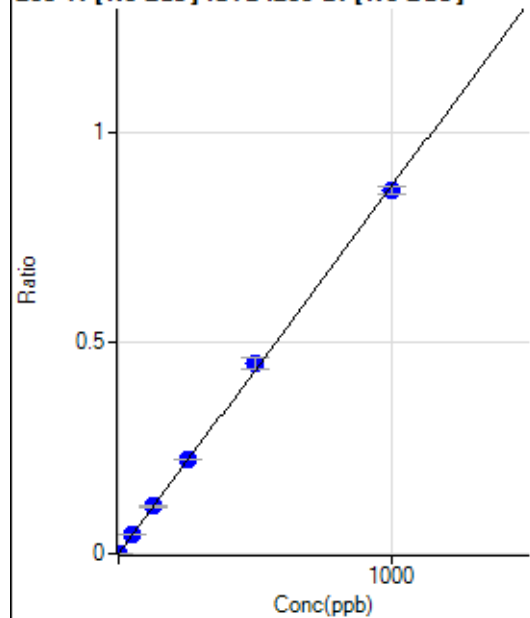
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	78.1
2	☐			17.78		P	57.3
3	☐			18.89		P	40.7
4	☐			15.56		P	12.4
5	☐			34.45		P	31.1
6	☐			17.78		P	10.8
7	☐			32.22		P	53.1
8	☐			117.78		P	23.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.
2	☐			13.89		P	34.7
3	☐			22.22		P	94.4
4	☐			36.11		P	70.5
5	☐			33.33		P	90.1
6	☐			22.22		P	114.
7	☐			61.12		P	7.9
8	☐			44.45		P	65.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	45.8
2	☐			5.55		P	69.3
3	☐			11.11		P	17.3
4	☐			14.44		P	35.3
5	☐			6.67		P	86.6
6	☐			17.78		P	10.8
7	☐			12.22		P	41.7
8	☐			16.67		P	20.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.66	0.0000	P	86.1
2	☐	1.000	0.960	1416.78	0.0008	P	6.0
3	☐	50.000	51.222	75749.06	0.0446	P	1.2
4	☐	125.000	129.163	190528.24	0.1124	P	1.7
5	☐	250.000	257.307	395284.19	0.2239	P	0.6
6	☐	500.000	519.652	796965.14	0.4522	P	5.8
7	☐	1000.000	987.766	1579317.66	0.8596	P	2.2
8	☐			827.83	0.0005	P	1.8

$$y = 8.7025E-004 * x + 9.9469E-006$$

$$R = 0.9997$$

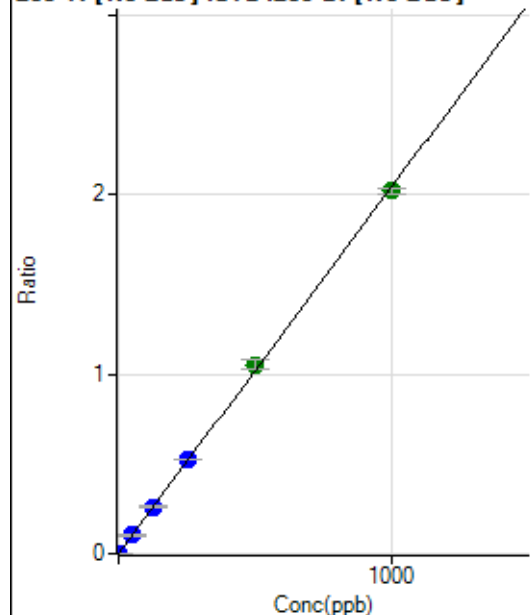
$$DL = 0.02952$$

$$BEC = 0.01143$$

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	52.78	0.0000	P	8.6
2	☐	1.000	0.953	3308.85	0.0020	P	4.1
3	☐	50.000	50.083	173605.31	0.1022	P	2.0
4	☐	125.000	128.507	444321.30	0.2621	P	1.0
5	☐	250.000	256.734	924410.22	0.5237	P	1.1
6	☐	500.000	516.288	1856971.00	1.0531	A	4.9
7	☐	1000.000	989.730	3709335.20	2.0188	A	1.8
8	☐			2033.55	0.0012	P	8.3

$$y = 0.0020 * x + 3.1593E-005$$

$$R = 0.9998$$

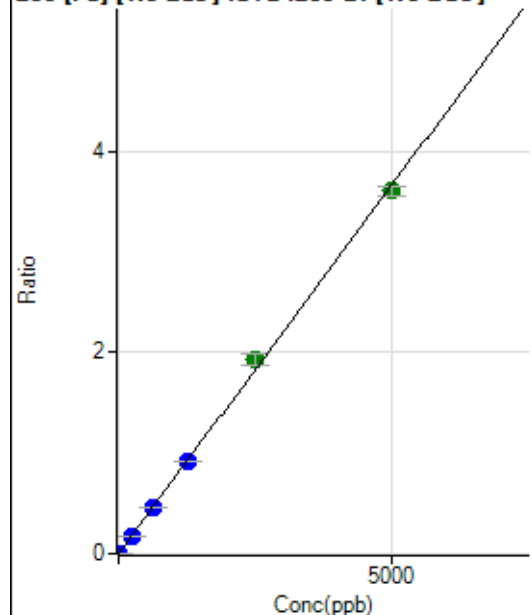
$$DL = 0.003979$$

$$BEC = 0.01549$$

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	220.38	0.0001	P	14.6
2	☐	1.000	0.815	1222.30	0.0007	P	7.3
3	☐	250.000	246.748	306874.60	0.1806	P	0.8
4	☐	625.000	635.053	787544.69	0.4647	P	1.1
5	☐	1250.000	1252.590	1617577.64	0.9164	P	1.0
6	☐	2500.000	2641.276	3404267.23	1.9322	A	6.3
7	☐	5000.000	4927.620	6622279.84	3.6046	A	2.4
8	☐			2457.69	0.0014	P	1.3

$$y = 7.3148E-004 * x + 1.3193E-004$$

$$R = 0.9994$$

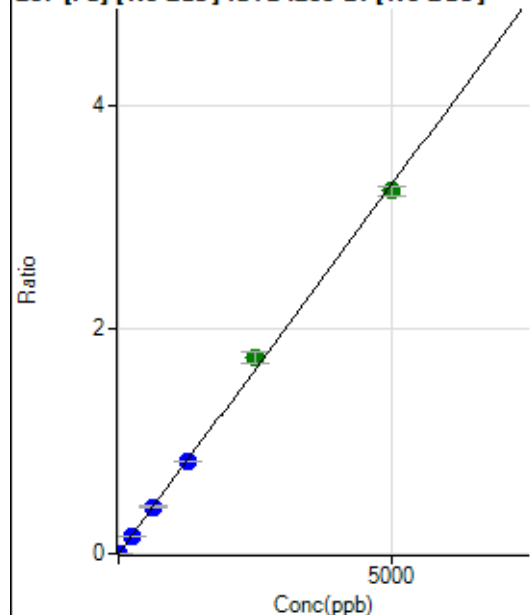
$$DL = 0.07918$$

$$BEC = 0.1804$$

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	159.26	0.0001	P	25.2
2	☐	1.000	0.832	1077.85	0.0006	P	1.6
3	☐	250.000	245.995	274954.57	0.1618	P	1.0
4	☐	625.000	634.494	707222.13	0.4173	P	1.5
5	☐	1250.000	1253.181	1454630.06	0.8241	P	1.1
6	☐	2500.000	2659.023	3082000.76	1.7484	A	5.0
7	☐	5000.000	4918.707	5941779.59	3.2342	A	2.3
8	☐			1929.81	0.0011	P	0.9

$$y = 6.5750\text{E-}004 * x + 9.5443\text{E-}005$$

$$R = 0.9992$$

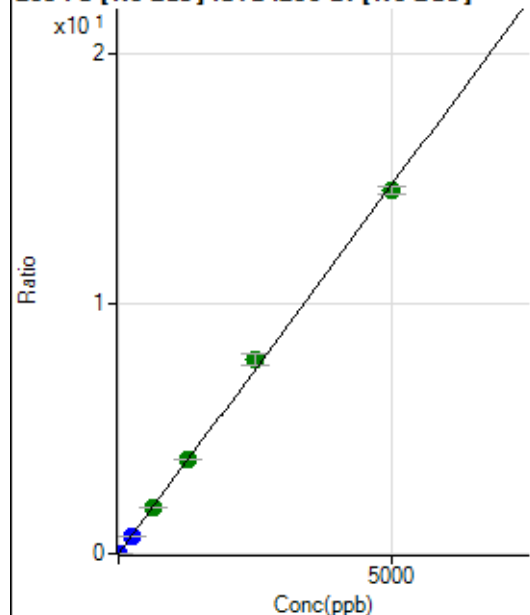
$$DL = 0.1096$$

$$BEC = 0.1452$$

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	753.73	0.0005	P	7.7
2	☐	1.000	0.840	4904.17	0.0029	P	6.9
3	☐	250.000	246.176	1233649.73	0.7261	P	0.8
4	☐	625.000	636.240	3179626.29	1.8759	A	0.6
5	☐	1250.000	1276.622	6643521.67	3.7636	A	1.4
6	☐	2500.000	2637.271	13701434.01	7.7745	A	5.6
7	☐	5000.000	4923.495	26665490.06	14.5138	A	2.2
8	☐			9099.54	0.0053	P	2.1

$$y = 0.0029 * x + 4.5140\text{E-}004$$

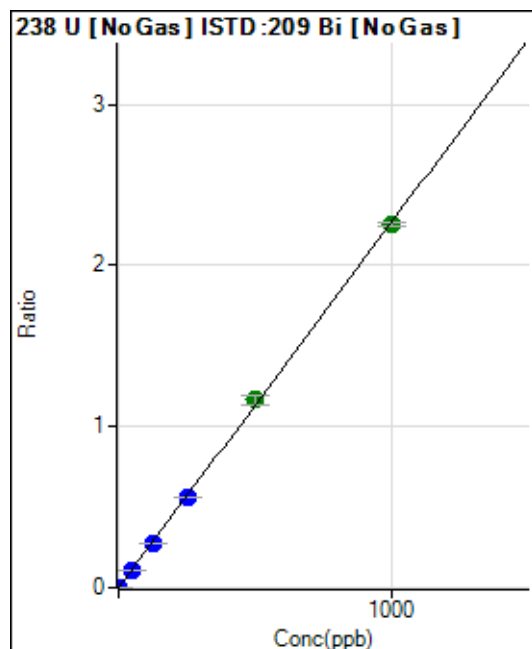
$$R = 0.9994$$

$$DL = 0.03559$$

$$BEC = 0.1531$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.897	3414.45	0.0020	P	9.5
3	☐	50.000	48.519	186844.76	0.1100	P	1.5
4	☐	125.000	123.136	473070.91	0.2791	P	0.4
5	☐	250.000	248.114	992713.31	0.5624	P	0.3
6	☐	500.000	515.505	2059477.61	1.1684	A	5.2
7	☐	1000.000	993.026	4136094.02	2.2508	A	0.9
8	☐			477.80	0.0003	P	18.2

$$y = 0.0023 * x + 6.6750E-006$$

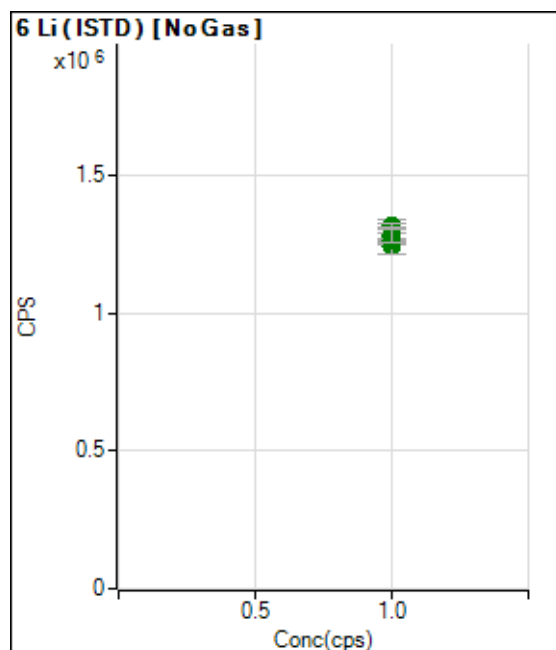
$$R = 0.9998$$

$$DL = 0.007651$$

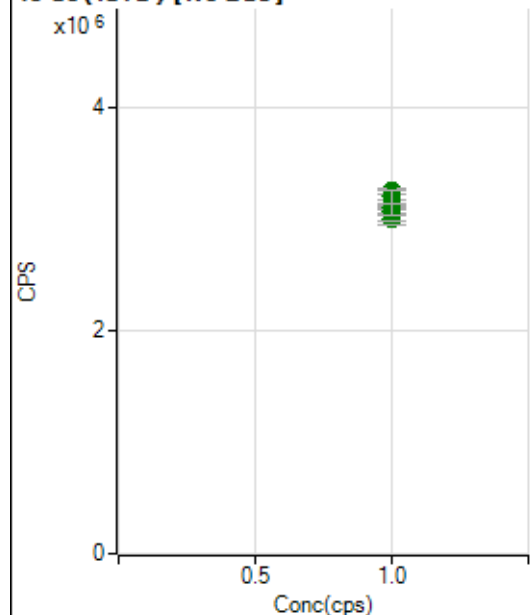
$$BEC = 0.002945$$

Weight: <None>

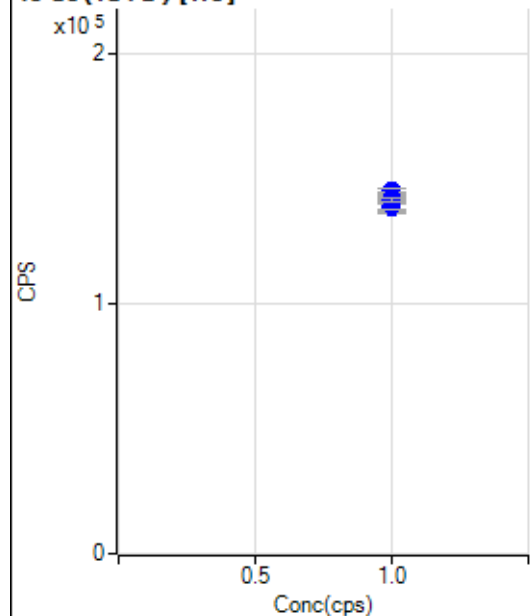
Min Conc: 0



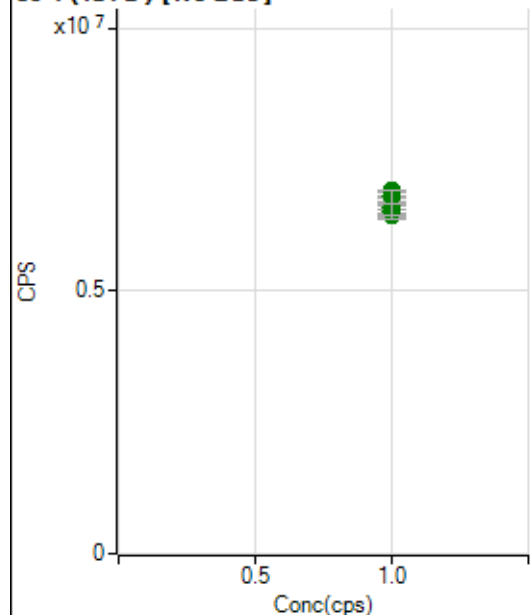
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1248601.77		A	0.2
2	☐	1.000		1240091.69		A	4.0
3	☐	1.000		1265486.99		A	0.6
4	☐	1.000		1262434.54		A	1.3
5	☐	1.000		1280072.91		A	1.2
6	☐	1.000		1314731.85		A	4.1
7	☐	1.000		1315790.68		A	1.0
8	☐	1.000		1277591.29		A	3.8

45 Sc (ISTD) [No Gas]

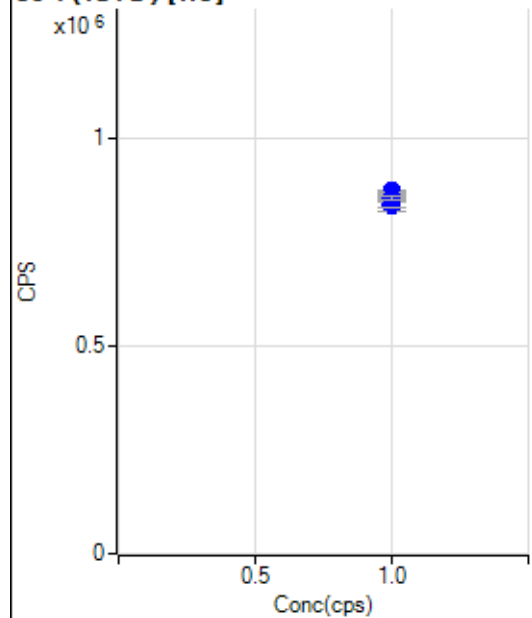
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2995878.29		A	3.3
2	☐	1.000		3035152.11		A	4.2
3	☐	1.000		3106419.64		A	0.5
4	☐	1.000		3054105.48		A	1.7
5	☐	1.000		3122323.84		A	0.5
6	☐	1.000		3097031.03		A	4.7
7	☐	1.000		3245975.02		A	1.8
8	☐	1.000		3199119.82		A	3.8

45 Sc (ISTD) [He]

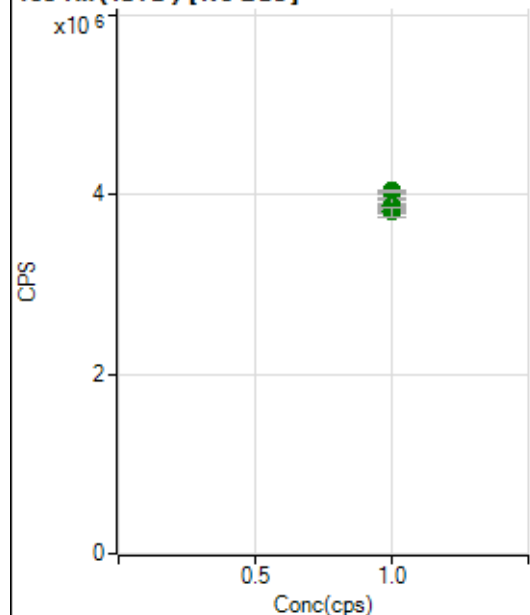
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		143458.02		P	0.6
2	☐	1.000		145226.88		P	1.1
3	☐	1.000		138319.98		P	3.4
4	☐	1.000		140737.97		P	0.4
5	☐	1.000		139325.81		P	3.4
6	☐	1.000		142077.92		P	0.8
7	☐	1.000		139359.65		P	2.4
8	☐	1.000		141675.36		P	1.2

89 Y (ISTD) [No Gas]

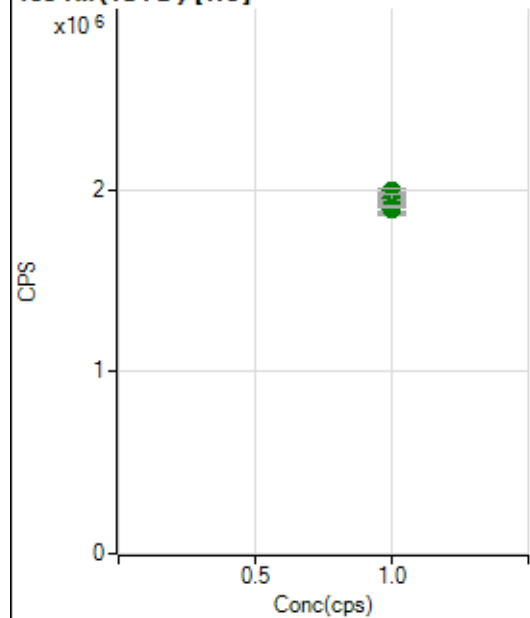
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6424560.95		A	1.2
2	☐	1.000		6493892.89		A	4.4
3	☐	1.000		6636425.39		A	0.6
4	☐	1.000		6599941.64		A	1.7
5	☐	1.000		6789701.29		A	0.7
6	☐	1.000		6579971.43		A	3.9
7	☐	1.000		6901910.04		A	0.4
8	☐	1.000		6792242.40		A	3.5

89 Y (ISTD) [He]

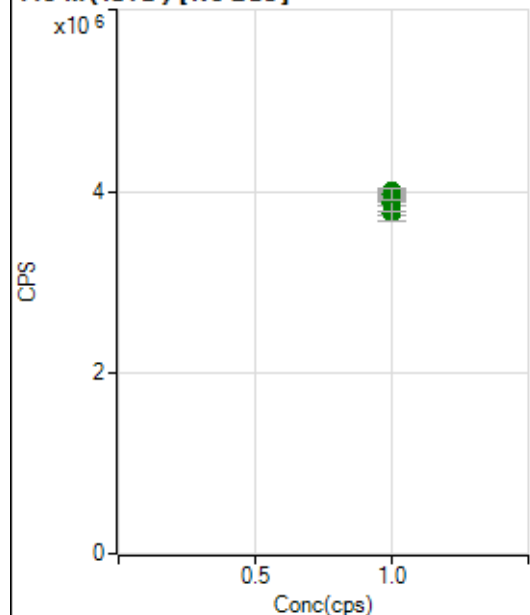
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		861163.61		P	0.8
2	☐	1.000		872519.26		P	0.2
3	☐	1.000		836129.48		P	3.2
4	☐	1.000		848926.23		P	1.1
5	☐	1.000		838853.29		P	4.1
6	☐	1.000		865874.60		P	0.7
7	☐	1.000		842993.95		P	2.2
8	☐	1.000		855902.78		P	0.8

103 Rh (ISTD) [No Gas]

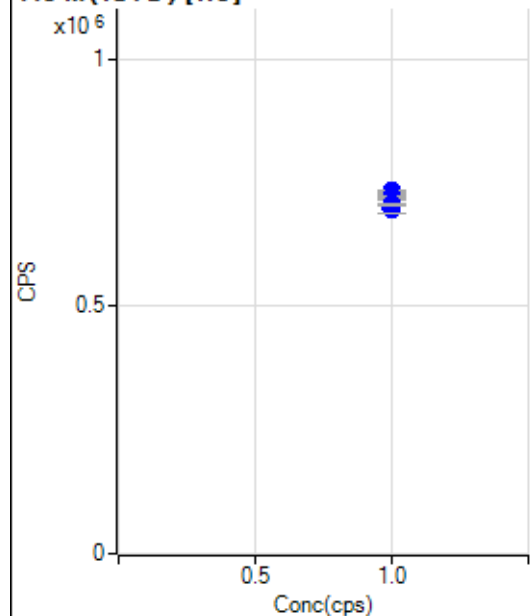
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3813469.96		A	1.6
2	☐	1.000		3825493.23		A	4.1
3	☐	1.000		3904793.32		A	1.8
4	☐	1.000		3856689.15		A	1.6
5	☐	1.000		3965328.00		A	1.8
6	☐	1.000		3879742.97		A	3.8
7	☐	1.000		4037595.97		A	0.4
8	☐	1.000		3805344.74		A	3.0

103 Rh (ISTD) [He]

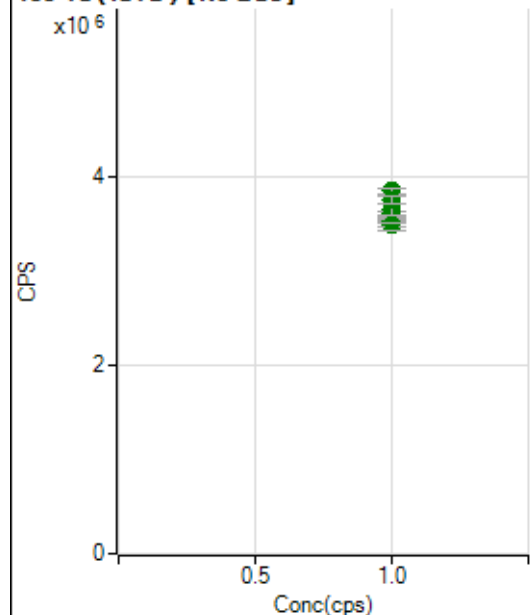
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1967954.81		A	0.7
2	☐	1.000		1996229.78		A	1.0
3	☐	1.000		1902645.27		A	4.4
4	☐	1.000		1952055.84		A	1.1
5	☐	1.000		1899889.99		A	3.1
6	☐	1.000		1961201.06		A	1.3
7	☐	1.000		1898136.03		A	1.4
8	☐	1.000		1907962.89		A	0.7

115 In (ISTD) [No Gas]

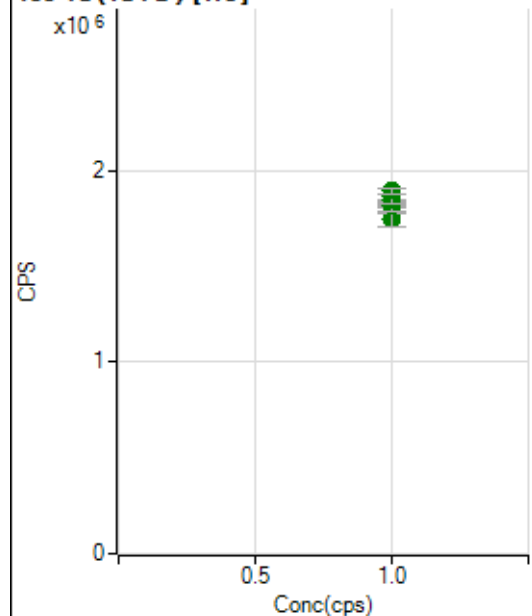
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3758218.12		A	1.4
2	☐	1.000		3786943.69		A	5.5
3	☐	1.000		3865312.66		A	0.8
4	☐	1.000		3880382.71		A	2.0
5	☐	1.000		3944198.71		A	0.5
6	☐	1.000		3872160.12		A	5.1
7	☐	1.000		4005759.36		A	0.3
8	☐	1.000		3964886.70		A	3.0

115 In (ISTD) [He]

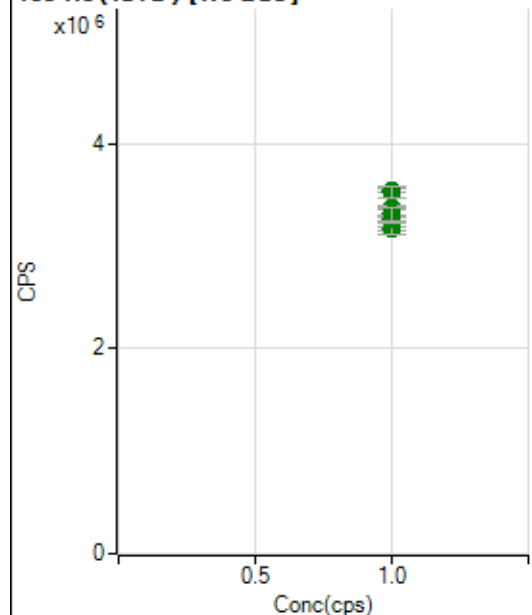
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		724847.71		P	0.2
2	☐	1.000		733688.64		P	0.8
3	☐	1.000		699726.78		P	2.8
4	☐	1.000		719103.14		P	0.7
5	☐	1.000		705434.31		P	4.5
6	☐	1.000		722084.64		P	0.7
7	☐	1.000		697226.74		P	2.1
8	☐	1.000		706342.05		P	0.7

159 Tb (ISTD) [No Gas]

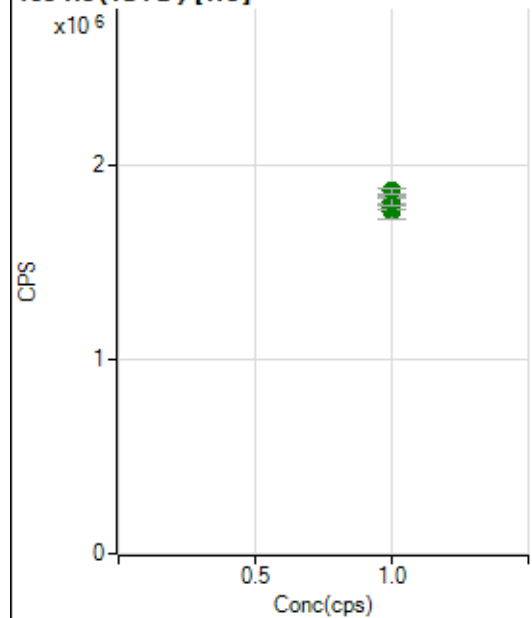
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3487005.40		A	1.0
2	☐	1.000		3531839.56		A	5.7
3	☐	1.000		3571646.16		A	1.8
4	☐	1.000		3529929.11		A	1.2
5	☐	1.000		3607111.33		A	1.4
6	☐	1.000		3653016.12		A	3.7
7	☐	1.000		3851877.58		A	1.6
8	☐	1.000		3757116.58		A	2.1

159 Tb (ISTD) [He]

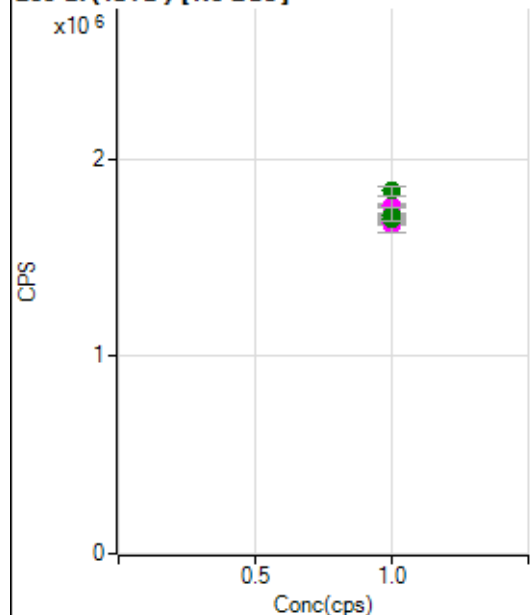
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1821753.31		A	2.2
2	☐	1.000		1862317.66		A	1.3
3	☐	1.000		1742822.58		A	4.0
4	☐	1.000		1822518.52		A	1.3
5	☐	1.000		1817021.99		A	3.5
6	☐	1.000		1891704.36		A	1.6
7	☐	1.000		1850286.47		A	2.6
8	☐	1.000		1892144.85		A	1.6

165 Ho (ISTD) [No Gas]

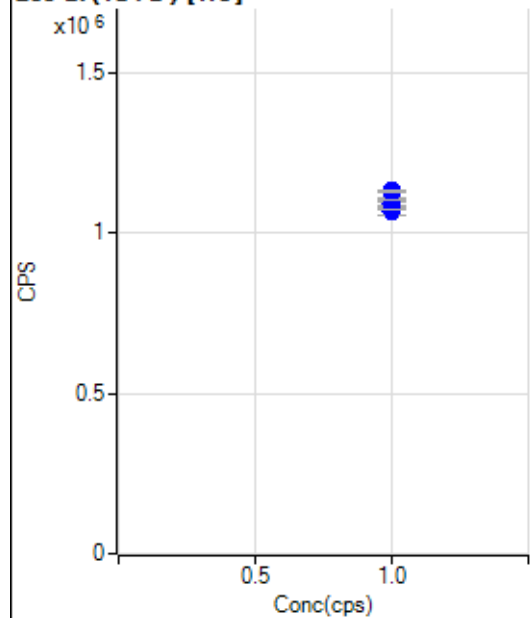
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3172480.93		A	1.4
2	☐	1.000		3176016.35		A	4.3
3	☐	1.000		3263391.24		A	0.9
4	☐	1.000		3263308.93		A	2.3
5	☐	1.000		3382132.50		A	1.3
6	☐	1.000		3320188.25		A	4.1
7	☐	1.000		3541805.16		A	1.2
8	☐	1.000		3527922.13		A	3.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1792569.25		A	0.7
2	☐	1.000		1843861.87		A	0.7
3	☐	1.000		1759794.82		A	4.4
4	☐	1.000		1781611.79		A	0.8
5	☐	1.000		1807916.55		A	3.6
6	☐	1.000		1843416.76		A	0.8
7	☐	1.000		1812575.88		A	1.9
8	☐	1.000		1866583.26		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1670087.84		M	0.5
2	☐	1.000		1677978.88		M	5.6
3	☐	1.000		1698989.21		A	0.3
4	☐	1.000		1695009.05		A	0.9
5	☐	1.000		1765225.91		A	0.5
6	☐	1.000		1765950.65		M	5.5
7	☐	1.000		1837915.06		A	2.5
8	☐	1.000		1716744.63		A	4.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1100195.83		P	0.5
2	☐	1.000		1102765.67		P	0.8
3	☐	1.000		1067890.24		P	2.2
4	☐	1.000		1092707.72		P	1.0
5	☐	1.000		1093147.38		P	3.0
6	☐	1.000		1130650.21		P	0.3
7	☐	1.000		1092055.34		P	1.7
8	☐	1.000		1073452.11		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8072820MS.b
Acq. Date-Time 2020-07-28 08:54:31
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		3183	31828.02			1.629	5.000
24		34092	340919.23			1.307	5.000
25		4451	44514.77			1.294	5.000
26		5151	51508.04			1.255	5.000
59		21034	210338.13			1.411	5.000
113		2593	25930.91			1.092	5.000
115		8600	85998.39			3.806	5.000
206		1860	18595.12			2.312	5.000
207		1561	15611.97			2.621	5.000
208		3828	38279.49			2.468	5.000
220		1	13.70			11.994	

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

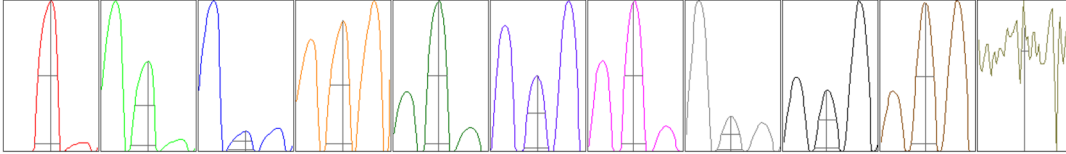
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3125	3207	3151	3258	3173
24	33427	34256	33901	34594	34282
25	4365	4481	4420	4504	4487
26	5083	5169	5089	5235	5178
59	20633	21120	21001	21455	20959
113	2559	2629	2585	2615	2577
115	8984	8879	8528	8415	8195
206	1798	1865	1838	1907	1890
207	1504	1557	1548	1614	1583
208	3696	3785	3834	3946	3878

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5372.82	9.00	8.90 - 9.10	
24	58014.58	24.00	23.90 - 24.10	
25	7500.98	25.00	24.90 - 25.10	
26	8730.35	26.00	25.90 - 26.10	
59	36362.16	58.95	58.90 - 59.10	
113	4797.55	113.00	112.90 - 113.10	
115	15900.07	114.95	114.90 - 115.10	
206	3441.26	205.95	205.90 - 206.10	
207	2839.27	206.90	206.90 - 207.10	
208	6985.33	207.95	207.90 - 208.10	
220	1.55	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.788	0.900	
24	0.63	0.789	0.900	
25	0.61	0.817	0.900	
26	0.63	0.826	0.900	
59	0.61	0.785	0.900	
113	0.56	0.775	0.900	
115	0.56	0.774	0.900	
206	0.56	0.798	0.900	
207	0.57	0.788	0.900	
208	0.57	0.812	0.900	
220	0.24			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.45 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	8.4 V	Deflect	14.2 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5323	53225.53			1.802	
89		9891	98905.35			1.952	
205		5392	53916.11			1.741	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5363	5215	5423	5387	5225
89	10053	9747	10012	10017	9624
205	5448	5355	5420	5488	5248

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.45 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	8.4 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	-0.2 mm		
EM					
Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V