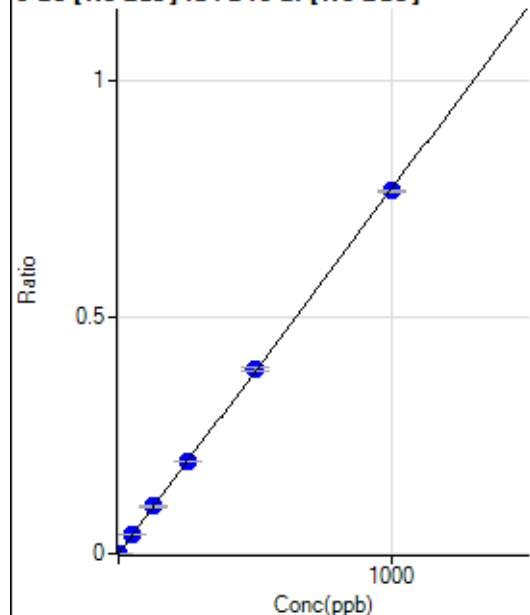


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8061821 MS.b\
Analysis File: P8061821 MS.batch.bin
DA Date-Time: 2021-06-21 23:36:45
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALS.d	S00	2021-06-18 11:57:27
2	006CALS.d	S02	2021-06-18 12:03:56
3	007CALS.d	S03	2021-06-18 12:07:09
4	008CALS.d	S04	2021-06-18 12:10:25
5	009CALS.d	S05	2021-06-18 12:13:38
6	010CALS.d	S06	2021-06-18 12:16:49
7	011CALS.d	S07	2021-06-18 12:19:56
8	012CALS.d	S08	2021-06-18 12:23:02

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	58.2
2	☐	1.000	1.168	419.92	0.0009	P	8.8
3	☐	50.000	51.698	18172.91	0.0399	P	1.8
4	☐	125.000	129.448	46298.38	0.0999	P	1.9
5	☐	250.000	253.280	94427.38	0.1954	P	1.4
6	☐	500.000	507.335	188770.44	0.3914	P	2.2
7	☐	1000.000	994.871	379753.36	0.7676	P	0.3
8	☐			117.31	0.0002	P	11.6

$$y = 7.7150\text{E-}004 * x + 3.8923\text{E-}005$$

$$R = 0.9999$$

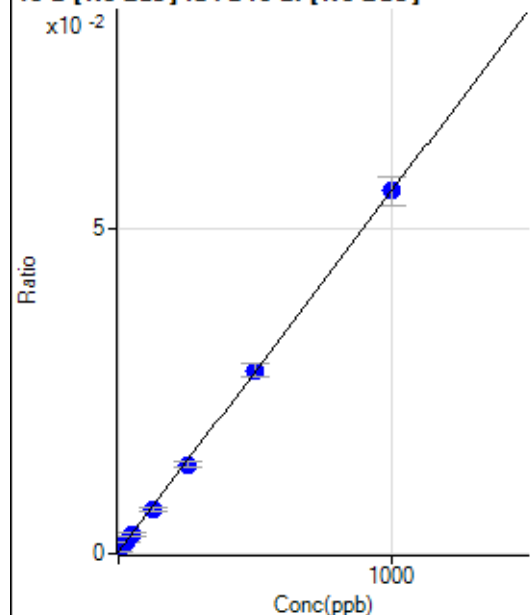
$$DL = 0.08805$$

$$BEC = 0.05045$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.65	0.0003	P	14.9
2	☐	25.000	27.527	797.87	0.0018	P	13.5
3	☐	50.000	47.606	1318.47	0.0029	P	15.7
4	☐	125.000	117.980	3151.73	0.0068	P	9.7
5	☐	250.000	243.022	6634.20	0.0137	P	8.0
6	☐	500.000	504.096	13590.26	0.0282	P	8.2
7	☐	1000.000	1000.631	27558.97	0.0557	P	8.0
8	☐			5312.59	0.0106	P	10.5

$$y = 5.5399\text{E-}005 * x + 2.6185\text{E-}004$$

$$R = 0.9999$$

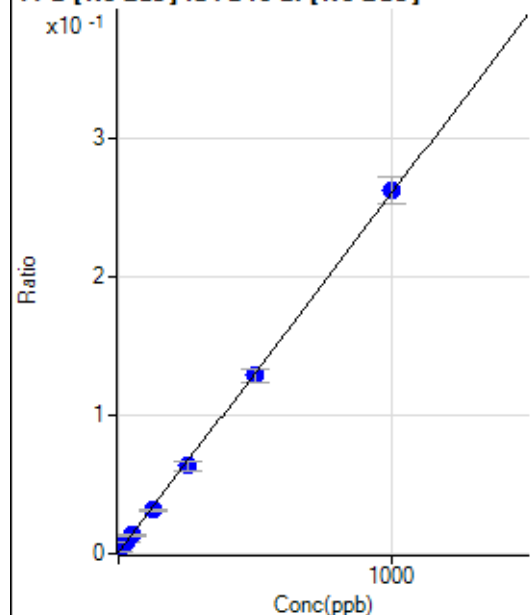
$$DL = 2.111$$

$$BEC = 4.727$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	475.92	0.0011	P	4.4
2	☐	25.000	26.975	3621.07	0.0081	P	7.5
3	☐	50.000	48.837	6266.79	0.0138	P	11.5
4	☐	125.000	116.832	14559.04	0.0314	P	7.0
5	☐	250.000	240.280	30663.33	0.0634	P	9.4
6	☐	500.000	492.625	62154.64	0.1289	P	8.2
7	☐	1000.000	1007.147	129839.34	0.2624	P	7.4
8	☐			24256.62	0.0486	P	12.5

$$y = 2.5945E-004 * x + 0.0011$$

R = 0.9999

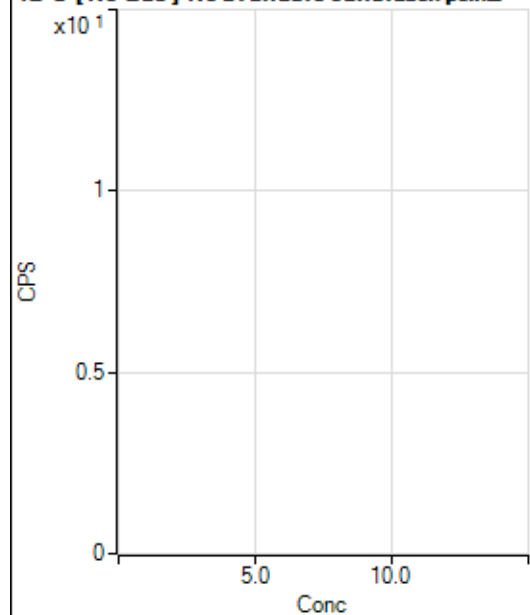
DL = 0.5637

BEC = 4.258

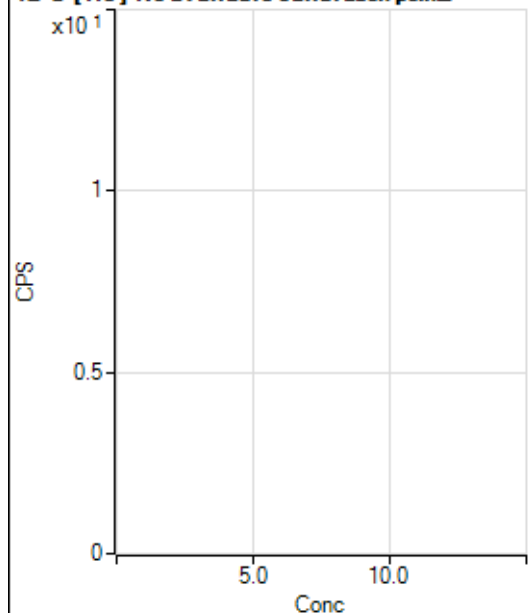
Weight: <None>

Min Conc: 0

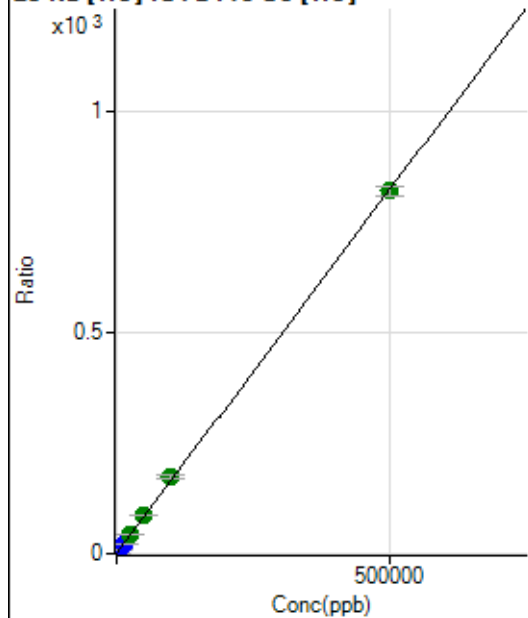
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2166367.17		A	0.9
2	☐			2592288.86		A	0.4
3	☐			2666741.90		A	0.8
4	☐			2649893.12		A	0.4
5	☐			2747553.25		A	0.9
6	☐			2834316.19		A	2.5
7	☐			2988037.80		A	1.9
8	☐			2860172.33		A	1.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24679.53		P	1.9
2	☐			30111.89		P	2.3
3	☐			31512.16		P	1.4
4	☐			31378.54		P	1.9
5	☐			32369.60		P	2.3
6	☐			33009.86		P	1.7
7	☐			34736.06		P	0.6
8	☐			34602.28		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15892.42	0.5383	P	1.6
2	☐	500.000	527.453	43306.64	1.4047	P	1.9
3	☐	5000.000	5190.938	288708.79	9.0647	P	1.2
4	☐	12500.000	12960.205	701525.93	21.8261	P	1.5
5	☐	25000.000	26753.412	1438472.36	44.4821	A	1.1
6	☐	50000.000	52064.491	2798303.52	86.0568	A	0.6
7	☐	100000.00	105412.40	5574322.04	173.6833	A	4.0
8	☐	500000.00	498609.95	26443522.6	819.5296	A	2.9

$$y = 0.0016 * x + 0.5383$$

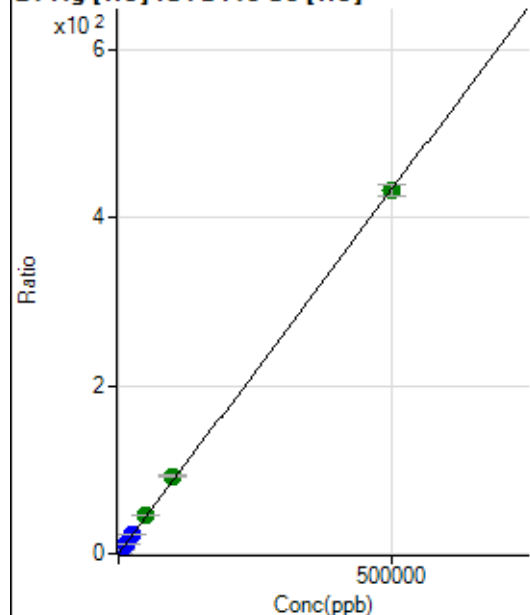
$$R = 0.9999$$

$$DL = 16.12$$

$$BEC = 327.7$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	466.69	0.0158	P	8.6
2	☐	500.000	516.834	14310.15	0.4642	P	2.2
3	☐	5000.000	5242.708	145339.38	4.5638	P	1.9
4	☐	12500.000	13023.493	363645.22	11.3135	P	1.2
5	☐	25000.000	26048.982	731078.60	22.6129	P	2.1
6	☐	50000.000	52745.901	1487970.85	45.7720	A	2.3
7	☐	100000.00	106283.02	2960360.40	92.2146	A	3.1
8	☐	500000.00	498400.82	13950608.6	432.3701	A	3.2

$$y = 8.6748\text{E-}004 * x + 0.0158$$

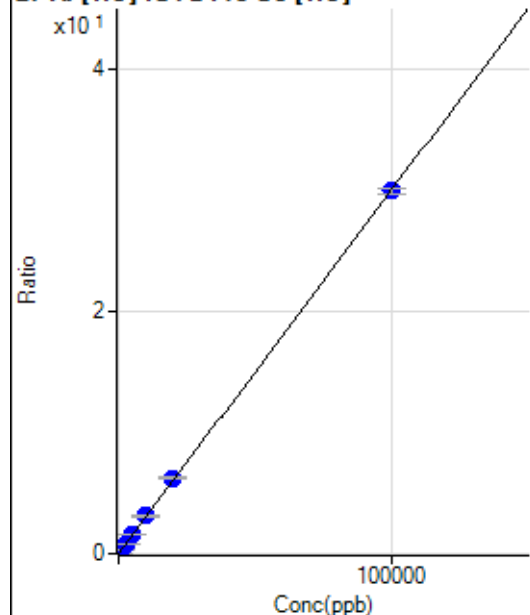
$$R = 0.9999$$

$$DL = 4.684$$

$$BEC = 18.24$$

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	311.63	0.0106	P	8.1
2	☐	20.000	23.212	540.36	0.0175	P	2.5
3	☐	1000.000	1082.961	10684.67	0.3355	P	2.3
4	☐	2500.000	2612.741	25541.61	0.7946	P	0.7
5	☐	5000.000	5243.724	51214.97	1.5841	P	1.9
6	☐	10000.000	10302.057	100857.76	3.1019	P	1.2
7	☐	20000.000	20835.232	200980.96	6.2626	P	4.2
8	☐	100000.00	99786.913	966605.66	29.9537	P	1.9

$$y = 3.0007\text{E-}004 * x + 0.0106$$

$$R = 1.0000$$

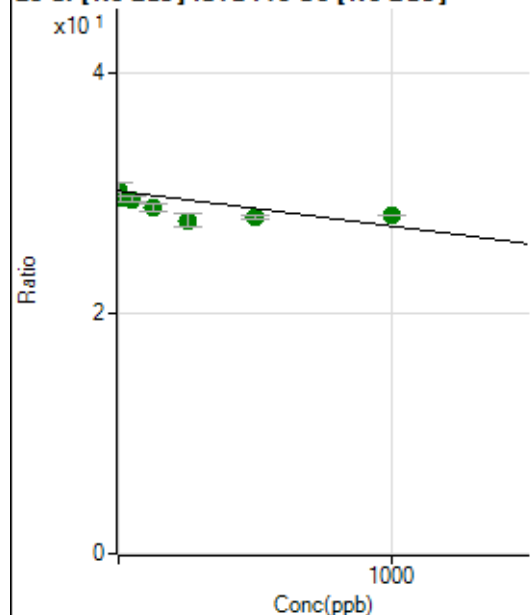
$$DL = 8.534$$

$$BEC = 35.21$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18720344.3	30.1432	A	5.0
2	☐	10.000	174.792	18801363.7	29.6324	A	2.5
3	☐	50.000	241.178	18932776.8	29.4383	A	1.7
4	☐	125.000	474.921	18937769.5	28.7552	A	2.4
5	☐	250.000	838.906	19236517.6	27.6913	A	3.8
6	☐	500.000	741.512	19376455.1	27.9760	A	1.4
7	☐	1000.000	677.071	19907580.4	28.1643	A	0.1
8	☐			19520772.6	27.4600	A	0.4

$$y = -0.0029 * x + 30.1432$$

$$R = -0.6607$$

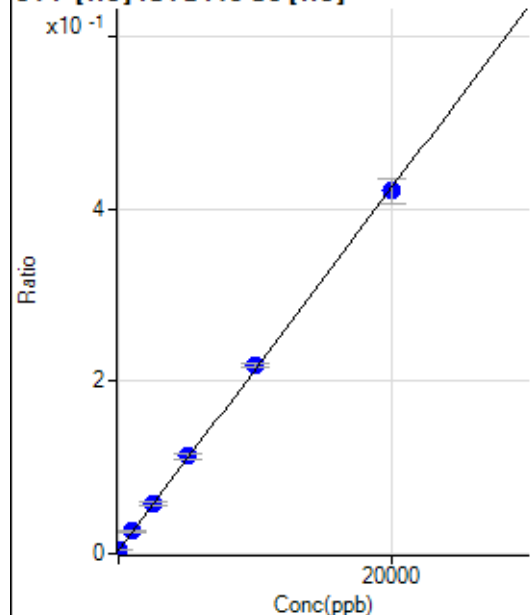
$$DL = -1547$$

$$BEC = -1.031E+04$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-15.588	108.33	0.0037	P	12.8
2	☐	0.000	15.588	133.34	0.0043	P	43.4
3	☐	1000.000	1038.525	822.27	0.0258	P	13.0
4	☐	2500.000	2551.974	1855.72	0.0577	P	8.1
5	☐	5000.000	5191.350	3658.90	0.1132	P	5.7
6	☐	10000.000	10216.921	7118.62	0.2190	P	2.6
7	☐	20000.000	19835.279	13512.16	0.4214	P	6.9
8	☐			130.56	0.0040	P	45.5

$$y = 2.1043E-005 * x + 0.0040$$

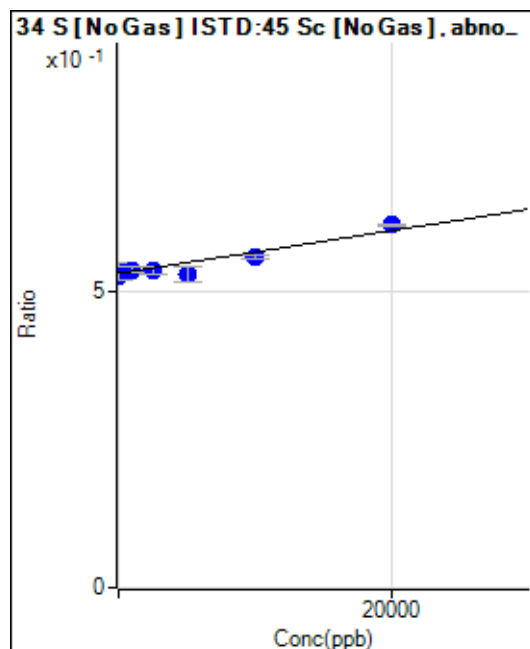
$$R = 0.9999$$

$$DL = 167.3$$

$$BEC = 189.9$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	1322.267	332346.45	0.5351	P	4.7
2	☐	0.000	-1322.267	333452.61	0.5256	P	2.7
3	☐	1000.000	1720.410	345050.86	0.5365	P	1.9
4	☐	2500.000	1398.563	352575.22	0.5354	P	2.5
5	☐	5000.000	-412.417	367293.20	0.5288	P	4.4
6	☐	10000.000	7638.744	386365.72	0.5578	P	1.3
7	☐	20000.000	22635.392	432487.06	0.6119	P	0.6
8	☐			329555.39	0.4636	P	0.9

$$y = 3.6024E-006 * x + 0.5303$$

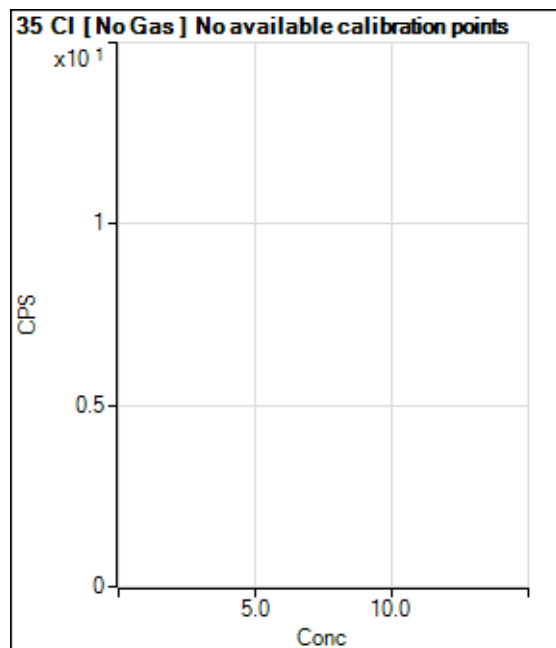
$$R = 0.9519$$

$$DL = 1.633E+04$$

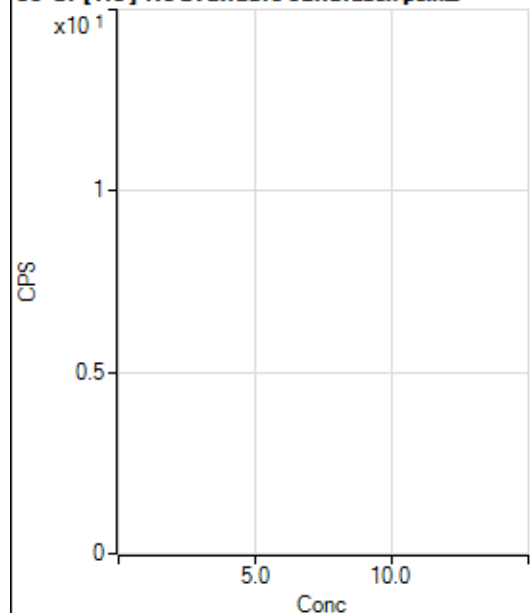
$$BEC = 1.472E+05$$

Weight: <None>

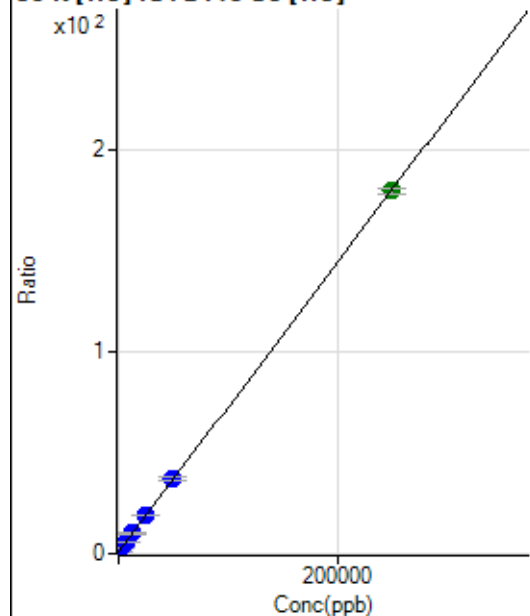
Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77365.30		P	1.1
2	☐			101829.94		P	1.0
3	☐			111225.89		P	1.3
4	☐			105050.19		P	0.2
5	☐			108027.66		P	2.8
6	☐			103857.65		P	0.7
7	☐			105058.66		P	0.1
8	☐			104892.84		P	0.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			869.49		P	9.3
2	☐			1225.08		P	11.1
3	☐			1183.41		P	7.6
4	☐			1305.66		P	1.6
5	☐			1258.43		P	4.0
6	☐			1275.09		P	5.8
7	☐			1194.53		P	1.1
8	☐			1225.08		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25687.39	0.8703	P	4.0
2	☐	500.000	464.567	37078.77	1.2029	P	2.4
3	☐	2500.000	2487.070	84446.97	2.6509	P	1.1
4	☐	6250.000	6381.996	174838.01	5.4395	P	1.8
5	☐	12500.000	12787.508	324053.70	10.0255	P	3.4
6	☐	25000.000	25196.237	614829.85	18.9095	P	1.1
7	☐	50000.000	50722.726	1193633.25	37.1852	P	3.4
8	☐	250000.00	249818.35	5800234.42	179.7275	A	1.4

$$y = 7.1595E-004 * x + 0.8703$$

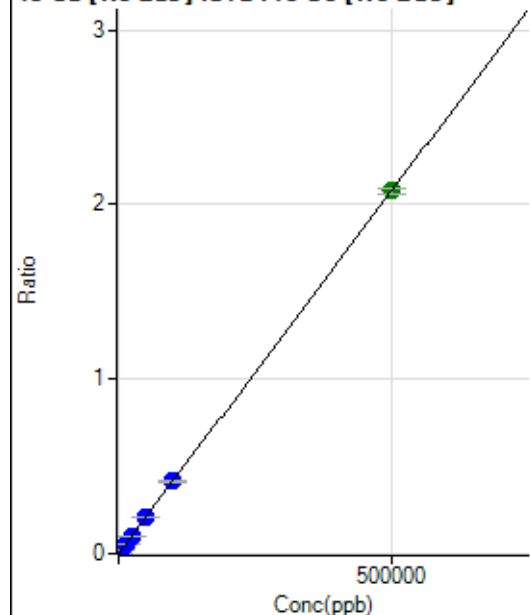
$$R = 1.0000$$

$$DL = 147$$

$$BEC = 1216$$

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	195.81	0.0003	P	5.2
2	☐	500.000	506.099	1533.23	0.0024	P	2.6
3	☐	5000.000	5029.908	13636.47	0.0212	P	1.0
4	☐	12500.000	12646.967	34793.26	0.0528	P	2.4
5	☐	25000.000	24520.744	70932.65	0.1021	P	4.5
6	☐	50000.000	49134.896	141539.81	0.2043	P	0.4
7	☐	100000.00	99745.922	292980.28	0.4145	P	1.0
8	☐	500000.00	500157.30	1476692.99	2.0772	A	1.4

$$y = 4.1524\text{E-}006 * x + 3.1497\text{E-}004$$

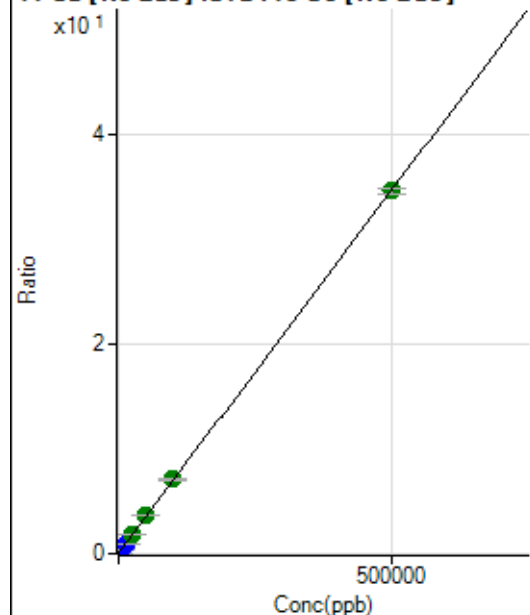
$$R = 1.0000$$

$$DL = 11.77$$

$$BEC = 75.85$$

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	25951.05	0.0418	P	4.2
2	☐	500.000	503.881	48684.82	0.0767	P	0.9
3	☐	5000.000	4969.613	248450.31	0.3863	P	0.6
4	☐	12500.000	12396.369	593510.38	0.9011	P	1.5
5	☐	25000.000	25649.801	1264538.07	1.8198	A	2.9
6	☐	50000.000	51702.927	2511604.33	3.6257	A	1.3
7	☐	100000.00	102378.12	5045617.12	7.1384	A	2.1
8	☐	500000.00	499324.48	24636734.2	34.6540	A	1.7

$$y = 6.9318\text{E-}005 * x + 0.0418$$

$$R = 1.0000$$

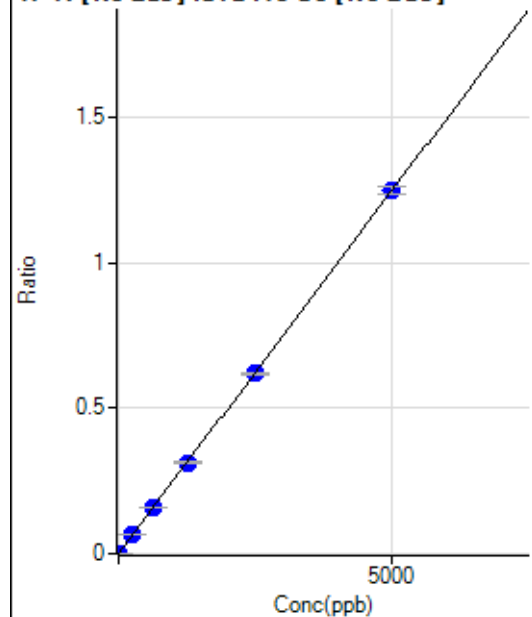
$$DL = 76.8$$

$$BEC = 602.7$$

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	313.90	0.0005	P	46.9
2	☐	5.000	5.522	1197.31	0.0019	P	3.5
3	☐	250.000	256.609	41396.95	0.0643	P	1.2
4	☐	625.000	639.316	105125.90	0.1596	P	1.0
5	☐	1250.000	1251.360	216662.64	0.3118	P	3.0
6	☐	2500.000	2484.679	428503.03	0.6186	P	0.5
7	☐	5000.000	5005.200	880492.29	1.2457	P	2.1
8	☐			427.80	0.0006	P	8.4

$$y = 2.4878\text{E-}004 * x + 5.1156\text{E-}004$$

$$R = 1.0000$$

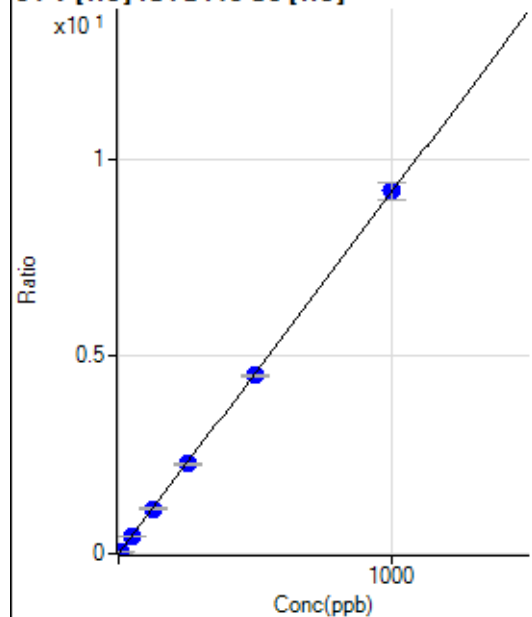
$$DL = 2.896$$

$$BEC = 2.056$$

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	6.66	0.0002	P	88.8
2	☐	5.000	5.136	1456.75	0.0473	P	1.6
3	☐	50.000	49.788	14530.79	0.4562	P	0.9
4	☐	125.000	124.475	36645.76	1.1401	P	1.3
5	☐	250.000	249.520	73875.93	2.2852	P	2.5
6	☐	500.000	492.321	146582.80	4.5086	P	1.6
7	☐	1000.000	1004.035	295037.60	9.1946	P	4.6
8	☐			72.22	0.0022	P	19.3

$$y = 0.0092 * x + 2.2861\text{E-}004$$

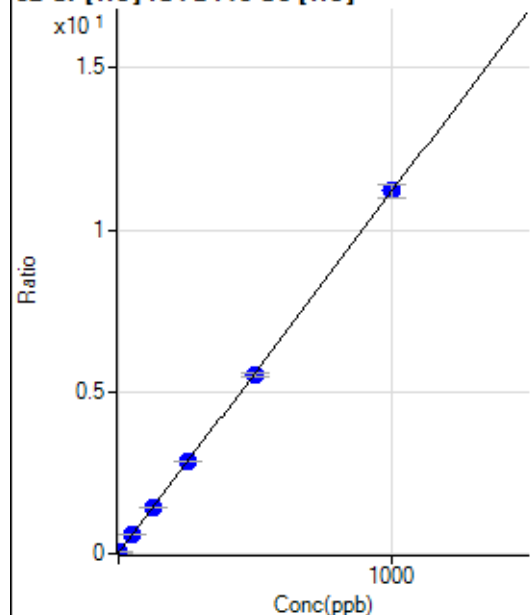
$$R = 1.0000$$

$$DL = 0.06652$$

$$BEC = 0.02496$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	773.36	0.0262	P	3.8
2	☐	2.000	2.164	1551.21	0.0503	P	1.0
3	☐	50.000	50.704	18841.36	0.5914	P	1.1
4	☐	125.000	126.787	46272.23	1.4395	P	1.0
5	☐	250.000	253.470	92202.60	2.8517	P	1.9
6	☐	500.000	492.074	179189.62	5.5115	P	1.7
7	☐	1000.000	1002.837	359633.58	11.2051	P	3.9
8	☐			1444.53	0.0448	P	8.9

$$y = 0.0111 * x + 0.0262$$

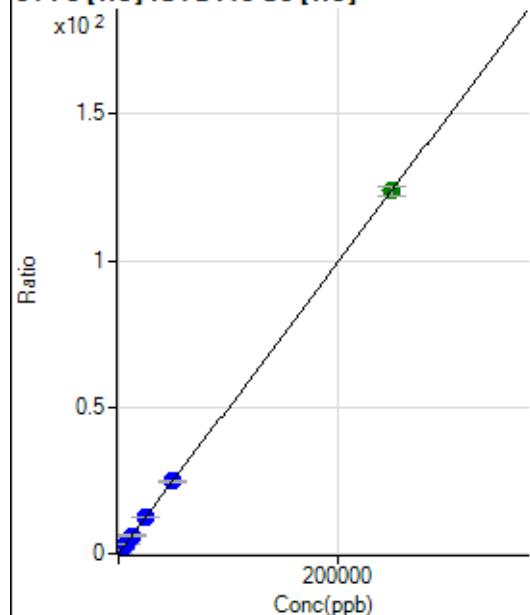
$$R = 0.9999$$

$$DL = 0.2652$$

$$BEC = 2.35$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	444.46	0.0150	P	3.9
2	☐	50.000	57.226	1337.12	0.0434	P	5.7
3	☐	2500.000	2521.621	40216.00	1.2627	P	1.8
4	☐	6250.000	6314.901	100925.79	3.1397	P	0.9
5	☐	12500.000	12530.886	200943.90	6.2153	P	2.1
6	☐	25000.000	24653.488	397159.46	12.2136	P	0.4
7	☐	50000.000	49865.877	792278.70	24.6886	P	4.3
8	☐	250000.00	250058.09	3993046.85	123.7435	A	2.3

$$y = 4.9480E-004 * x + 0.0150$$

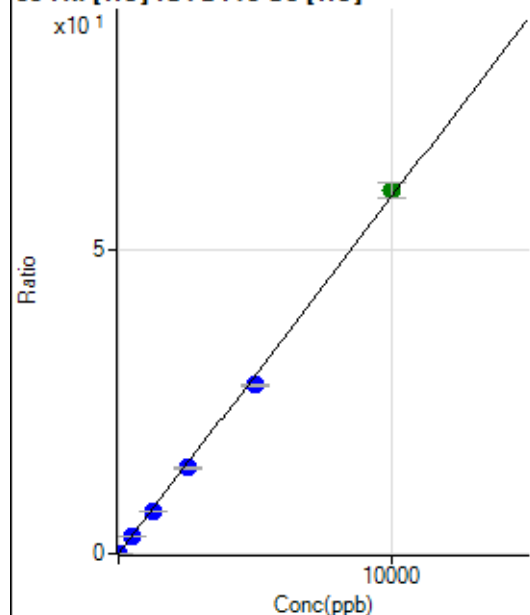
$$R = 1.0000$$

$$DL = 3.566$$

$$BEC = 30.41$$

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	56.67	0.0019	P	21.1
2	☐	1.000	0.948	231.12	0.0075	P	8.5
3	☐	500.000	479.784	89963.19	2.8248	P	1.5
4	☐	1250.000	1198.049	226639.04	7.0508	P	0.9
5	☐	2500.000	2407.735	458060.00	14.1682	P	2.2
6	☐	5000.000	4731.326	905236.96	27.8395	P	1.0
7	☐	10000.000	10164.908	1919490.99	59.8088	A	4.2
8	☐			906.71	0.0281	P	7.9

$$y = 0.0059 * x + 0.0019$$

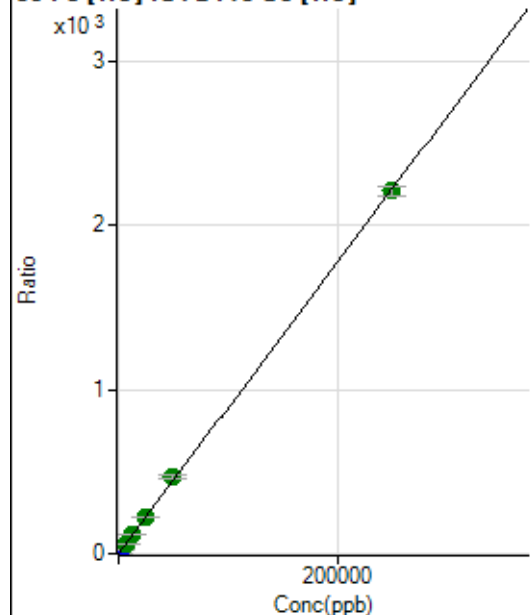
$$R = 0.9994$$

$$DL = 0.2066$$

$$BEC = 0.3263$$

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	2502.12	0.0847	P	1.2
2	☐	50.000	53.357	17173.46	0.5572	P	2.7
3	☐	2500.000	2496.011	706606.69	22.1858	P	1.2
4	☐	6250.000	6585.318	1876870.69	58.3948	A	1.9
5	☐	12500.000	13249.382	3795009.60	117.4021	A	3.1
6	☐	25000.000	25505.922	7346551.09	225.9283	A	0.4
7	☐	50000.000	52639.277	14961246.5	466.1820	A	4.2
8	☐	250000.00	249375.74	71253834.0	2,208.195	A	2.6

$$y = 0.0089 * x + 0.0847$$

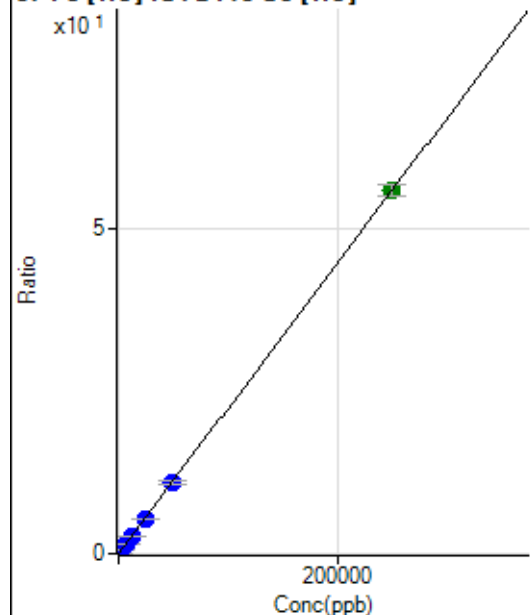
$$R = 0.9999$$

$$DL = 0.3433$$

$$BEC = 9.569$$

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	144.45	0.0049	P	21.1
2	☐	50.000	51.514	505.57	0.0164	P	9.1
3	☐	2500.000	2476.117	17751.97	0.5573	P	0.3
4	☐	6250.000	6128.464	44107.18	1.3721	P	1.1
5	☐	12500.000	12335.390	89121.19	2.7568	P	2.5
6	☐	25000.000	24182.983	175578.95	5.3998	P	1.2
7	☐	50000.000	49248.953	352733.05	10.9917	P	4.3
8	☐	250000.00	250243.41	1801435.10	55.8309	A	3.1

$$y = 2.2309\text{E-}004 * x + 0.0049$$

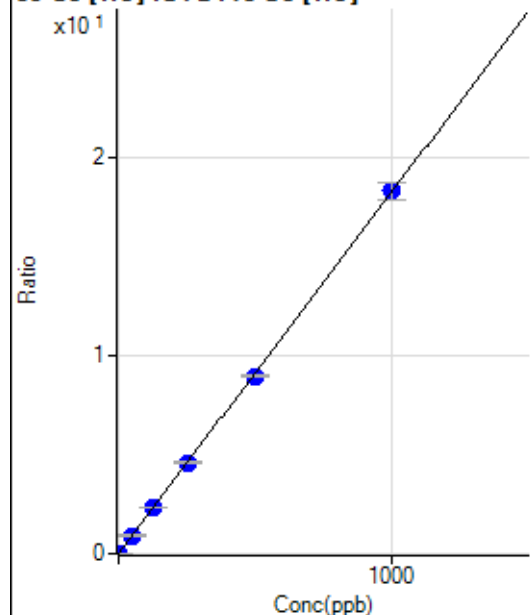
$$R = 1.0000$$

$$DL = 13.9$$

$$BEC = 21.98$$

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	62.22	0.0021	P	37.0
2	☐	1.000	1.076	670.02	0.0217	P	11.3
3	☐	50.000	50.327	29301.27	0.9201	P	1.9
4	☐	125.000	125.946	73912.84	2.2994	P	0.8
5	☐	250.000	252.037	148683.58	4.5992	P	2.5
6	☐	500.000	491.417	291502.50	8.9655	P	1.3
7	☐	1000.000	1003.647	587462.69	18.3084	P	4.7
8	☐			868.93	0.0269	P	2.7

$$y = 0.0182 * x + 0.0021$$

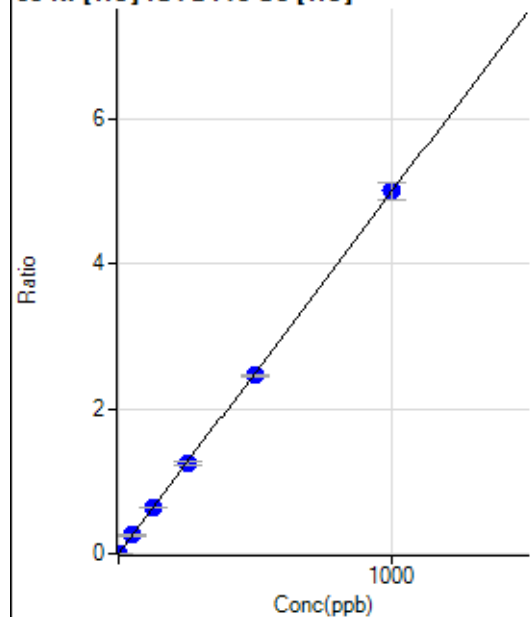
$$R = 0.9999$$

$$DL = 0.1288$$

$$BEC = 0.116$$

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	51.11	0.0017	P	17.4
2	☐	1.000	1.270	248.89	0.0081	P	19.9
3	☐	50.000	50.514	8094.58	0.2540	P	2.3
4	☐	125.000	127.095	20455.91	0.6366	P	3.1
5	☐	250.000	248.734	40210.05	1.2441	P	3.9
6	☐	500.000	493.659	80231.17	2.4675	P	1.1
7	☐	1000.000	1003.199	160849.94	5.0125	P	4.5
8	☐			271.12	0.0084	P	5.1

$$y = 0.0050 * x + 0.0017$$

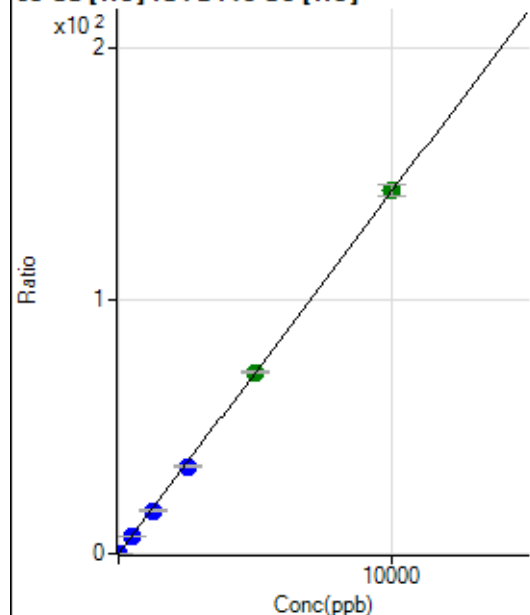
$$R = 1.0000$$

$$DL = 0.1816$$

$$BEC = 0.3474$$

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	130.00	0.0044	P	15.8
2	☐	2.000	1.728	897.81	0.0291	P	7.9
3	☐	500.000	481.852	219557.24	6.8938	P	1.5
4	☐	1250.000	1194.594	549144.94	17.0843	P	1.1
5	☐	2500.000	2395.643	1107463.45	34.2566	P	2.5
6	☐	5000.000	5004.994	2327087.12	71.5642	A	0.9
7	☐	10000.000	10031.425	4604555.45	143.4305	A	3.1
8	☐			1043.39	0.0323	P	8.5

$$y = 0.0143 * x + 0.0044$$

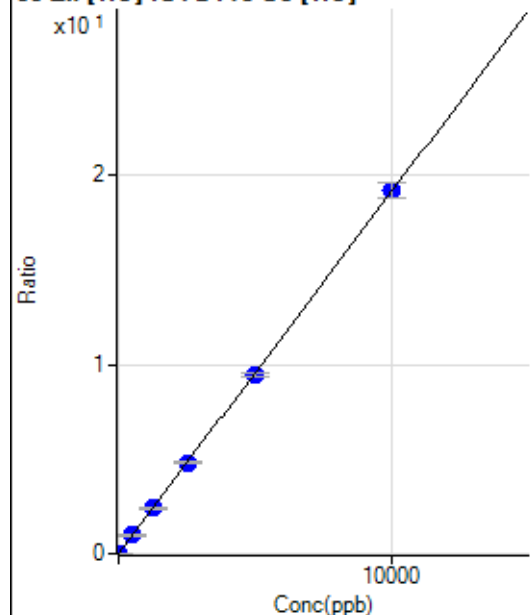
$$R = 0.9999$$

$$DL = 0.1465$$

$$BEC = 0.3084$$

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	57.78	0.0019	P	31.9
2	☐	2.000	2.597	213.34	0.0069	P	20.8
3	☐	500.000	507.134	30982.77	0.9730	P	2.7
4	☐	1250.000	1252.690	77147.19	2.4006	P	2.8
5	☐	2500.000	2515.548	155789.75	4.8187	P	2.2
6	☐	5000.000	4941.378	307698.84	9.4637	P	1.2
7	☐	10000.000	10024.731	616093.79	19.1973	P	4.1
8	☐			912.26	0.0282	P	7.5

$$y = 0.0019 * x + 0.0019$$

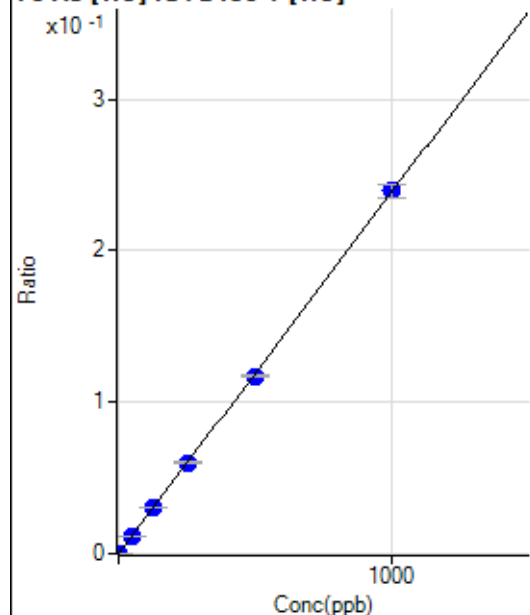
$$R = 1.0000$$

$$DL = 0.9752$$

$$BEC = 1.018$$

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	10.33	0.0001	P	44.2
2	☐	1.000	0.977	53.68	0.0003	P	11.1
3	☐	50.000	49.964	2283.75	0.0120	P	0.8
4	☐	125.000	125.882	5742.42	0.0301	P	1.0
5	☐	250.000	251.178	11593.25	0.0599	P	2.1
6	☐	500.000	490.136	22657.37	0.1169	P	1.0
7	☐	1000.000	1004.529	45871.17	0.2396	P	3.8
8	☐			19.67	0.0001	P	14.9

$$y = 2.3841E-004 * x + 5.8806E-005$$

$$R = 0.9999$$

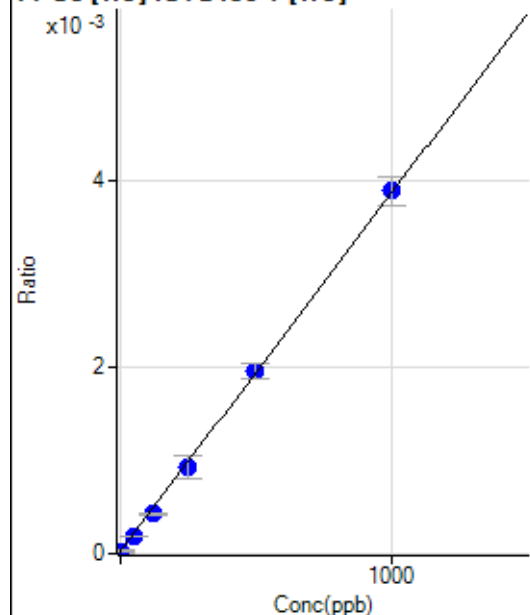
$$DL = 0.327$$

$$BEC = 0.2467$$

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	3.33	0.0000	P	102.2
2	☐	5.000	2.864	5.56	0.0000	P	34.9
3	☐	50.000	43.402	35.55	0.0002	P	9.6
4	☐	125.000	105.394	81.11	0.0004	P	2.8
5	☐	250.000	235.270	178.89	0.0009	P	25.0
6	☐	500.000	503.198	378.90	0.0020	P	8.7
7	☐	1000.000	1004.875	743.36	0.0039	P	8.2
8	☐			5.56	0.0000	P	35.3

$$y = 3.8482\text{E-}006 * x + 1.9193\text{E-}005$$

$$R = 0.9998$$

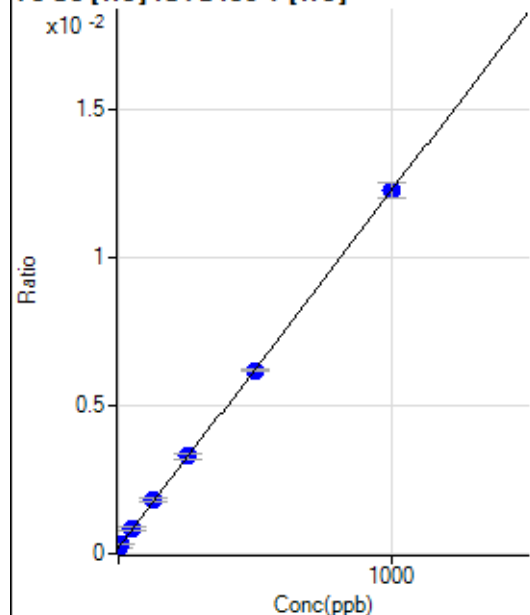
$$DL = 15.29$$

$$BEC = 4.988$$

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	37.00	0.0002	P	12.4
2	☐	5.000	9.327	59.01	0.0003	P	7.3
3	☐	50.000	54.215	164.69	0.0009	P	13.6
4	☐	125.000	132.725	345.71	0.0018	P	5.9
5	☐	250.000	255.366	636.41	0.0033	P	4.6
6	☐	500.000	496.890	1202.84	0.0062	P	1.8
7	☐	1000.000	999.016	2349.43	0.0123	P	4.3
8	☐			41.33	0.0002	P	12.0

$$y = 1.2073\text{E-}005 * x + 2.0798\text{E-}004$$

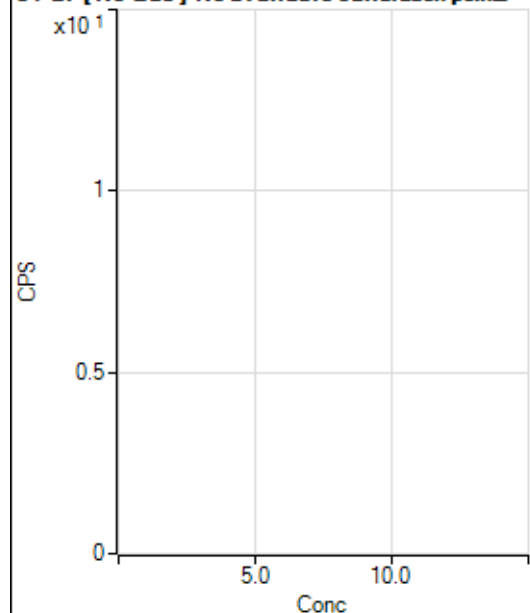
$$R = 1.0000$$

$$DL = 6.41$$

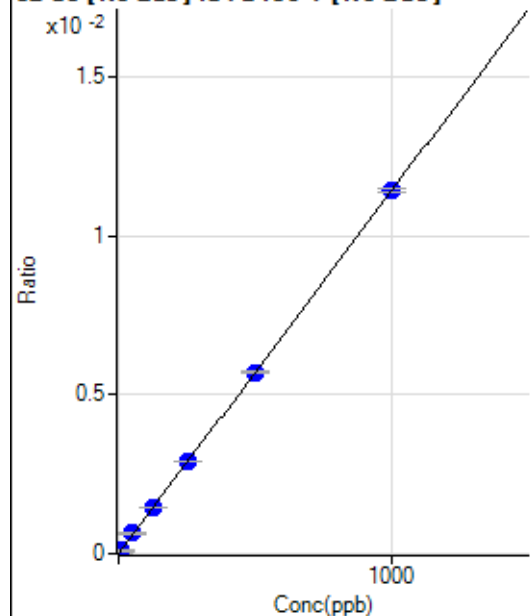
$$BEC = 17.23$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2582.91		P	8.1
2	☐			2526.17		P	1.6
3	☐			2646.32		P	5.5
4	☐			2516.16		P	3.4
5	☐			2482.78		P	5.8
6	☐			2522.82		P	2.8
7	☐			2669.69		P	7.7
8	☐			2552.88		P	12.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-3.79	0.0000	P	-1209.
2	☐	5.000	7.262	127.78	0.0001	P	69.7
3	☐	50.000	55.420	1014.98	0.0006	P	8.3
4	☐	125.000	126.416	2353.01	0.0014	P	0.5
5	☐	250.000	252.443	4846.48	0.0029	P	1.8
6	☐	500.000	497.722	9529.01	0.0057	P	0.9
7	☐	1000.000	1000.069	19334.41	0.0114	P	0.7
8	☐			29.55	0.0000	P	108.1

$$y = 1.1436E-005 * x - 2.2699E-006$$

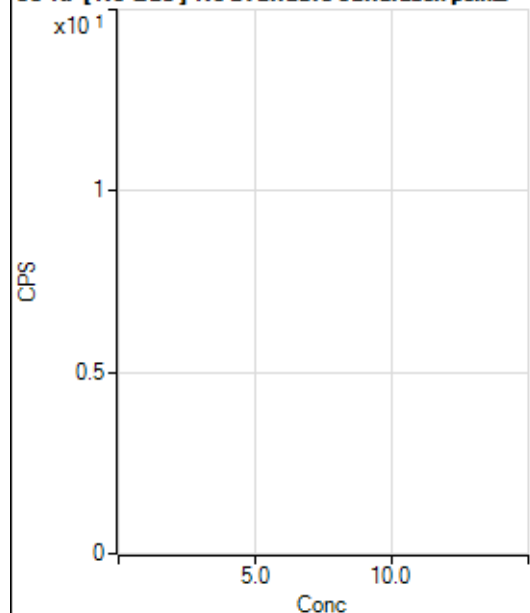
$$R = 1.0000$$

$$DL = 7.201$$

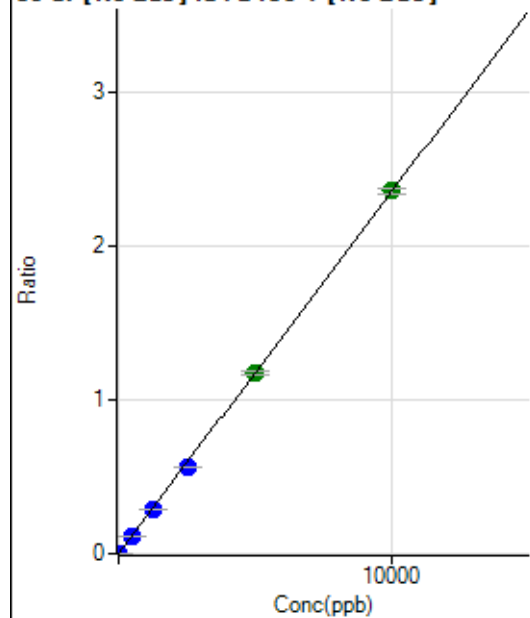
$$BEC = -0.1985$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			947.82		P	6.0
2	☐			910.04		P	11.6
3	☐			860.04		P	5.8
4	☐			920.04		P	5.8
5	☐			917.82		P	6.5
6	☐			1020.05		P	8.3
7	☐			870.03		P	5.6
8	☐			948.93		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1436.22	0.0009	P	5.4
2	☐	1.000	0.809	1769.61	0.0011	P	7.1
3	☐	500.000	479.760	182396.00	0.1135	P	1.0
4	☐	1250.000	1214.438	465945.10	0.2860	P	2.5
5	☐	2500.000	2406.782	950651.89	0.5658	P	0.6
6	☐	5000.000	4992.553	1964124.52	1.1727	A	2.5
7	☐	10000.000	10032.485	3983184.55	2.3556	A	1.7
8	☐			2992.06	0.0018	P	14.3

$$y = 2.3470E-004 * x + 9.3220E-004$$

$$R = 1.0000$$

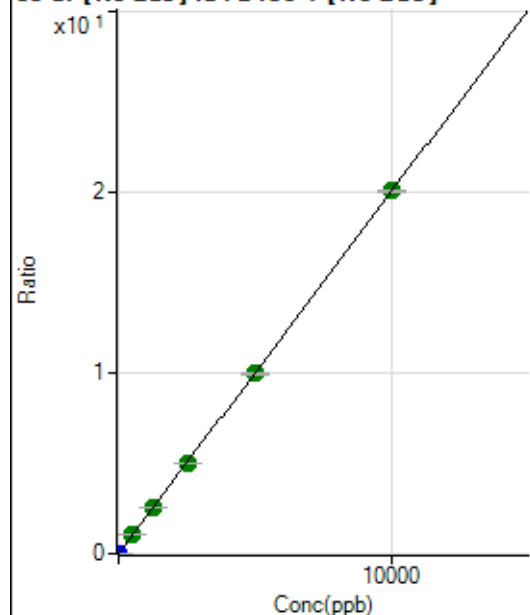
$$DL = 0.6441$$

$$BEC = 3.972$$

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	77.78	0.0001	P	15.1
2	☐	1.000	1.048	3394.95	0.0022	P	6.4
3	☐	500.000	513.456	1655755.88	1.0308	A	1.8
4	☐	1250.000	1270.179	4156107.65	2.5499	A	1.0
5	☐	2500.000	2490.138	8396964.07	4.9989	A	1.6
6	☐	5000.000	4969.116	16706621.0	9.9753	A	1.7
7	☐	10000.000	10014.712	33993867.0	20.1040	A	0.8
8	☐			12928.51	0.0076	P	7.3

$$y = 0.0020 * x + 5.0591E-005$$

$$R = 1.0000$$

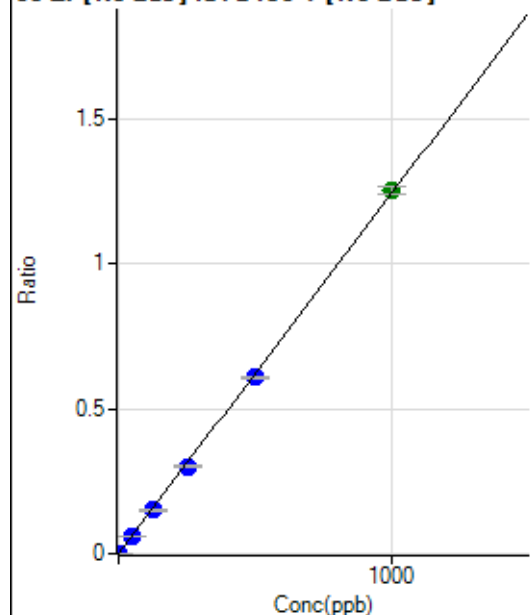
$$DL = 0.01142$$

$$BEC = 0.0252$$

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	72.22	0.0000	P	32.1
2	☐	1.000	1.000	2036.31	0.0013	P	8.5
3	☐	50.000	48.823	97638.86	0.0608	P	0.8
4	☐	125.000	121.482	246306.80	0.1512	P	2.3
5	☐	250.000	242.143	505869.72	0.3013	P	3.0
6	☐	500.000	490.934	1022864.63	0.6107	P	1.1
7	☐	1000.000	1006.996	2118164.02	1.2527	A	2.1
8	☐			616.70	0.0004	P	19.8

$$y = 0.0012 * x + 4.6496E-005$$

$$R = 0.9999$$

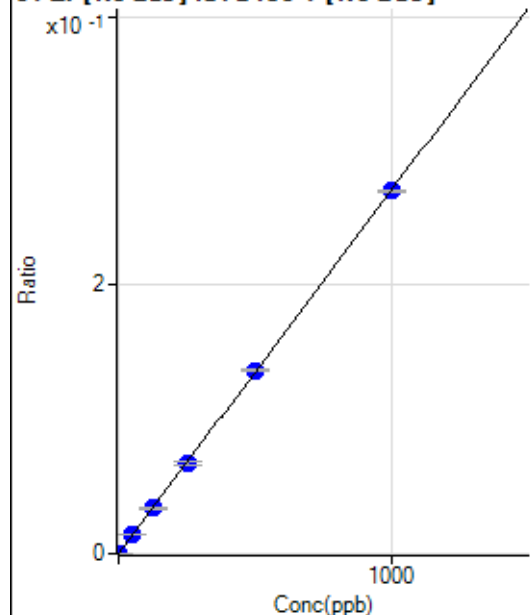
$$DL = 0.036$$

$$BEC = 0.03738$$

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	36.11	0.0000	P	48.5
2	☐	1.000	0.960	447.24	0.0003	P	13.3
3	☐	50.000	50.784	22134.76	0.0138	P	1.7
4	☐	125.000	125.829	55569.79	0.0341	P	2.6
5	☐	250.000	248.243	112937.80	0.0673	P	3.4
6	☐	500.000	504.448	228863.24	0.1367	P	1.7
7	☐	1000.000	998.073	457132.12	0.2704	P	0.7
8	☐			152.78	0.0001	P	19.3

$$y = 2.7085E-004 * x + 2.3561E-005$$

$$R = 1.0000$$

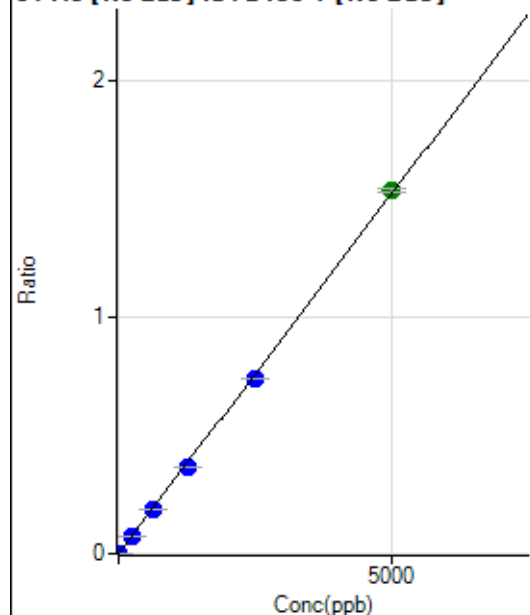
$$DL = 0.1267$$

$$BEC = 0.08699$$

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	33.33	0.0000	P	47.2
2	☐	5.000	5.242	2544.75	0.0016	P	6.2
3	☐	250.000	241.597	117923.24	0.0734	P	1.1
4	☐	625.000	610.451	302214.53	0.1854	P	1.8
5	☐	1250.000	1211.023	618026.33	0.3679	P	0.6
6	☐	2500.000	2437.468	1240079.41	0.7404	P	0.2
7	☐	5000.000	5043.249	2590311.02	1.5319	A	1.2
8	☐			1016.73	0.0006	P	14.6

$$y = 3.0376E-004 * x + 2.1357E-005$$

$$R = 0.9999$$

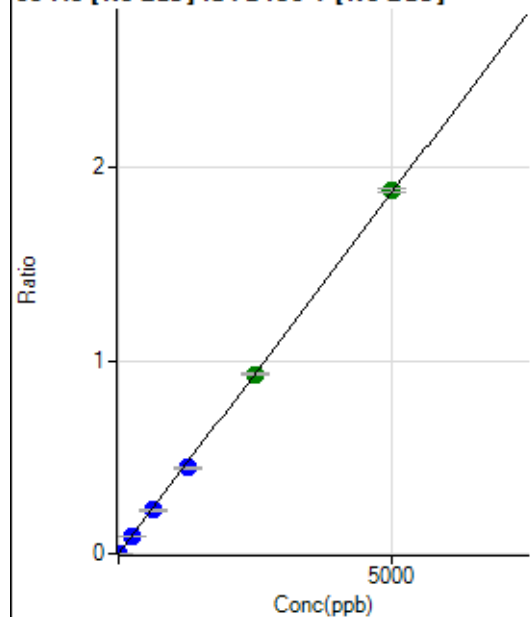
$$DL = 0.09963$$

$$BEC = 0.07031$$

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	5.55	0.0000	P	86.7
2	☐	5.000	4.791	2833.70	0.0018	P	7.0
3	☐	250.000	235.988	141906.46	0.0883	P	0.8
4	☐	625.000	603.914	368407.94	0.2260	P	1.5
5	☐	1250.000	1192.689	749817.01	0.4464	P	1.7
6	☐	2500.000	2480.322	1554906.72	0.9284	A	0.9
7	☐	5000.000	5027.503	3181849.68	1.8818	A	1.1
8	☐			1086.19	0.0006	P	20.9

$$y = 3.7429\text{E-}004 * x + 3.6565\text{E-}006$$

$$R = 0.9999$$

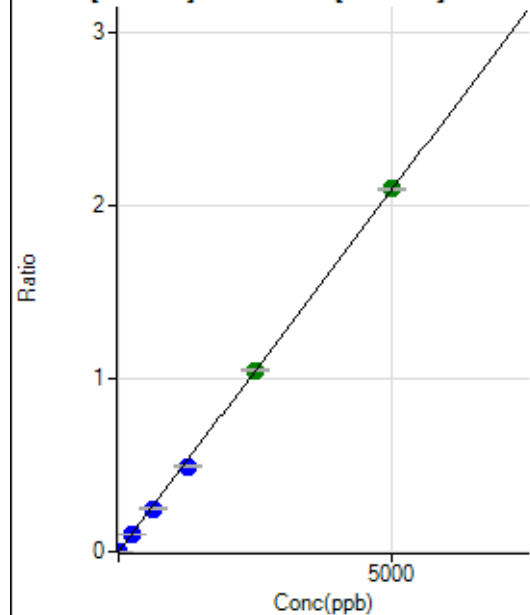
$$DL = 0.02542$$

$$BEC = 0.009769$$

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	58.33	0.0000	P	46.7
2	☐	5.000	4.734	3183.79	0.0020	P	3.9
3	☐	250.000	238.099	160129.94	0.0997	P	0.4
4	☐	625.000	598.261	408073.63	0.2504	P	1.9
5	☐	1250.000	1178.445	828365.71	0.4932	P	1.8
6	☐	2500.000	2508.797	1758581.44	1.0499	A	1.7
7	☐	5000.000	5017.428	3550403.34	2.0998	A	0.9
8	☐			1616.81	0.0009	P	16.4

$$y = 4.1849\text{E-}004 * x + 3.8280\text{E-}005$$

$$R = 0.9999$$

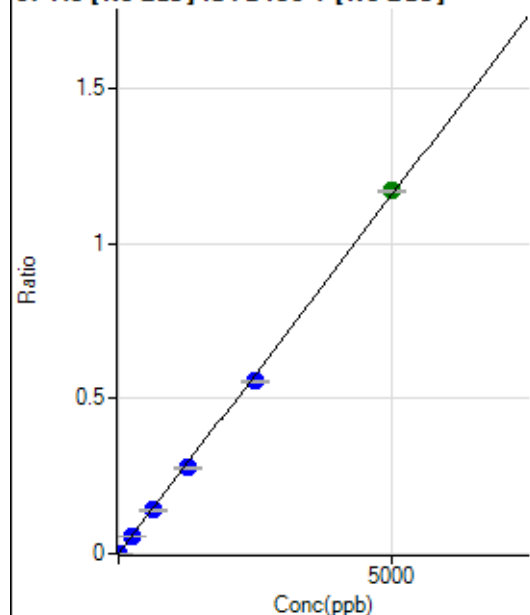
$$DL = 0.1282$$

$$BEC = 0.09147$$

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	8.33	0.0000	P	173.2
2	☐	5.000	4.866	1783.49	0.0011	P	5.7
3	☐	250.000	241.621	89798.52	0.0559	P	1.6
4	☐	625.000	603.807	227531.39	0.1397	P	3.7
5	☐	1250.000	1197.695	465302.67	0.2771	P	2.5
6	☐	2500.000	2409.371	933511.91	0.5574	P	1.2
7	☐	5000.000	5061.459	1979882.03	1.1709	A	0.3
8	☐			658.37	0.0004	P	31.3

$$y = 2.3133\text{E-}004 * x + 5.6705\text{E-}006$$

$$R = 0.9997$$

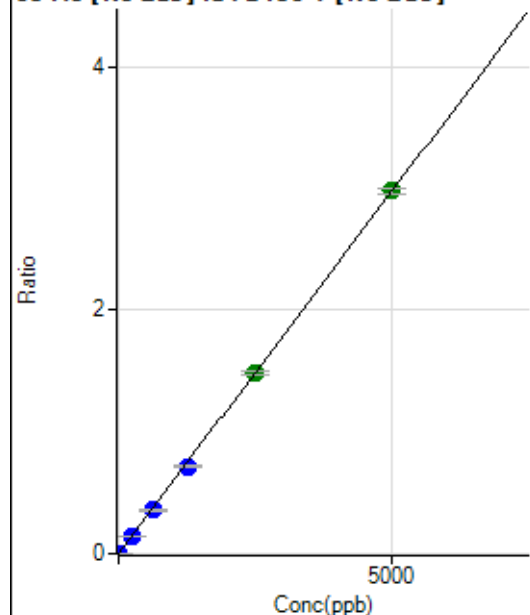
$$DL = 0.1274$$

$$BEC = 0.02451$$

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	22.22	0.0000	P	56.5
2	☐	5.000	4.894	4614.79	0.0029	P	6.0
3	☐	250.000	237.638	226996.85	0.1413	P	1.0
4	☐	625.000	603.389	584521.36	0.3588	P	2.7
5	☐	1250.000	1199.571	1197716.11	0.7132	P	2.6
6	☐	2500.000	2505.043	2494341.11	1.4894	A	1.9
7	☐	5000.000	5013.405	5039959.49	2.9807	A	1.4
8	☐			1627.91	0.0010	P	7.1

$$y = 5.9454\text{E-}004 * x + 1.4441\text{E-}005$$

$$R = 0.9999$$

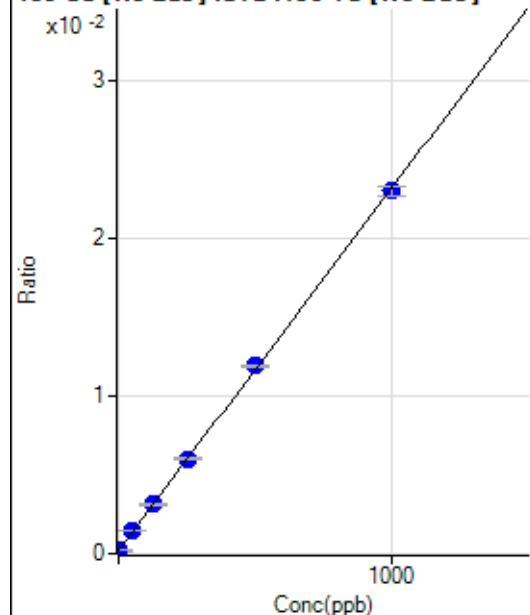
$$DL = 0.04119$$

$$BEC = 0.02429$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.90	0.0002	P	25.3
2	☐	1.000	2.303	277.79	0.0003	P	17.4
3	☐	50.000	56.650	1639.04	0.0015	P	1.9
4	☐	125.000	127.346	3472.75	0.0031	P	5.9
5	☐	250.000	253.277	7104.78	0.0060	P	1.6
6	☐	500.000	511.001	14163.24	0.0119	P	1.1
7	☐	1000.000	993.053	28051.27	0.0230	P	2.5
8	☐			347.24	0.0003	P	23.0

$$y = 2.2979E-005 * x + 2.0312E-004$$

R = 0.9999

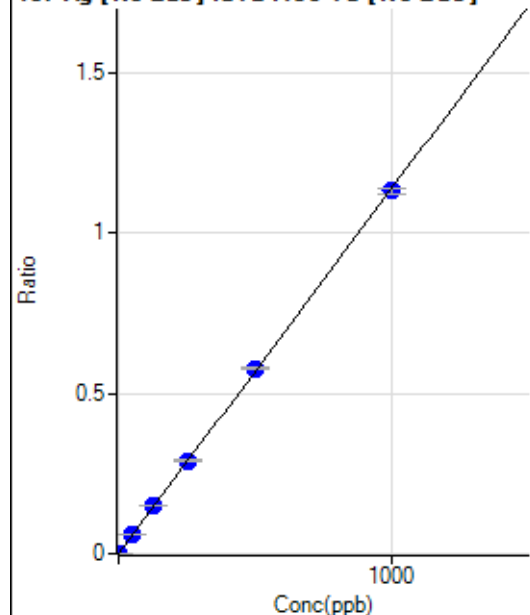
DL = 6.698

BEC = 8.839

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	11.11	0.0000	P	40.2
2	☐	1.000	1.110	1377.88	0.0013	P	8.7
3	☐	50.000	53.095	65879.99	0.0605	P	1.8
4	☐	125.000	131.374	166153.96	0.1497	P	1.7
5	☐	250.000	255.502	343368.29	0.2911	P	1.7
6	☐	500.000	507.222	685208.44	0.5779	P	0.7
7	☐	1000.000	994.062	1380039.42	1.1326	P	1.8
8	☐			563.91	0.0005	P	5.1

$$y = 0.0011 * x + 1.0434E-005$$

R = 0.9999

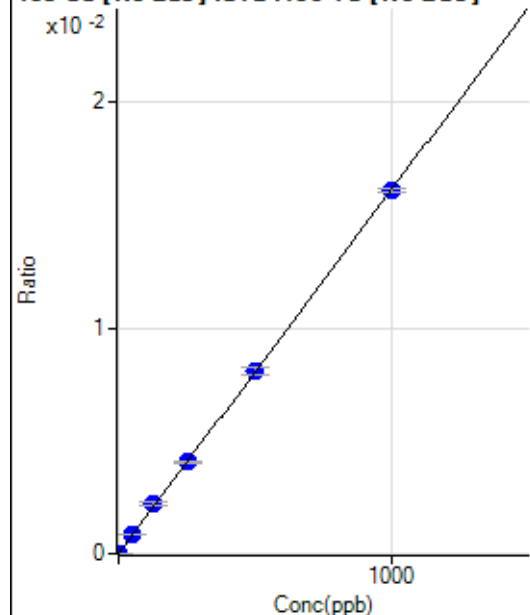
DL = 0.01103

BEC = 0.009157

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	50.0
2	☐	1.000	1.270	30.56	0.0000	P	37.0
3	☐	50.000	52.092	923.65	0.0008	P	2.9
4	☐	125.000	136.639	2457.19	0.0022	P	5.9
5	☐	250.000	252.071	4806.45	0.0041	P	1.4
6	☐	500.000	502.466	9621.51	0.0081	P	4.0
7	☐	1000.000	996.689	19605.69	0.0161	P	1.0
8	☐			20.84	0.0000	P	34.4

$$y = 1.6135E-005 * x + 7.9206E-006$$

R = 0.9999

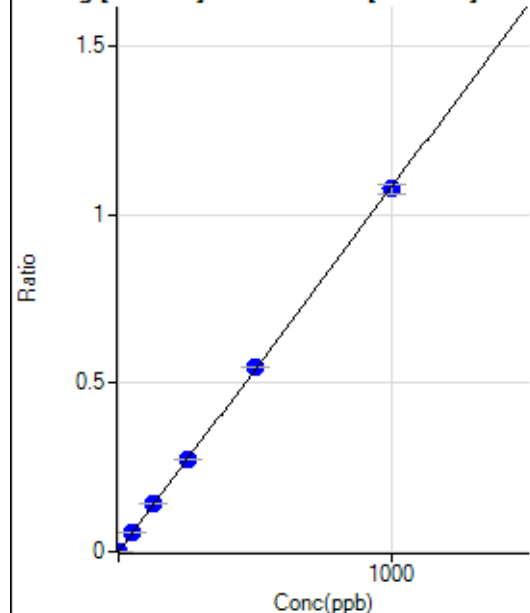
DL = 0.7359

BEC = 0.4909

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	173.2
2	☐	1.000	1.137	1338.99	0.0012	P	7.4
3	☐	50.000	52.175	61516.27	0.0565	P	0.8
4	☐	125.000	131.084	157531.28	0.1419	P	1.0
5	☐	250.000	253.642	323890.56	0.2746	P	1.3
6	☐	500.000	506.877	650604.07	0.5487	P	0.4
7	☐	1000.000	994.781	1312097.82	1.0769	P	2.6
8	☐			538.91	0.0004	P	9.1

$$y = 0.0011 * x + 7.6316E-006$$

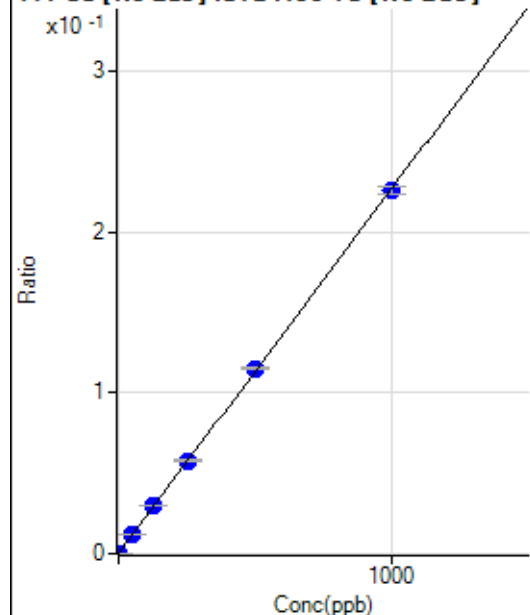
R = 0.9999

DL = 0.03663

BEC = 0.00705

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	150.84	0.0001	P	21.0
2	☐	1.000	1.174	443.90	0.0004	P	8.0
3	☐	50.000	54.120	13533.45	0.0124	P	1.4
4	☐	125.000	131.879	33390.00	0.0301	P	1.8
5	☐	250.000	254.311	68253.99	0.0579	P	2.0
6	☐	500.000	506.557	136503.73	0.1151	P	1.1
7	☐	1000.000	994.578	275278.37	0.2259	P	2.2
8	☐			324.31	0.0003	P	31.9

$$y = 2.2701\text{E-}004 * x + 1.4306\text{E-}004$$

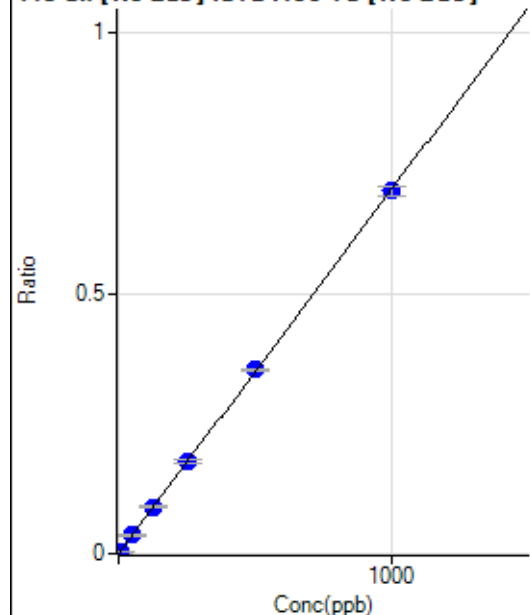
$$R = 0.9999$$

$$DL = 0.3963$$

$$BEC = 0.6302$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.22	0.0001	P	58.2
2	☐	5.000	5.166	4034.03	0.0037	P	4.5
3	☐	50.000	50.798	38783.50	0.0356	P	3.1
4	☐	125.000	128.749	100023.01	0.0901	P	1.7
5	☐	250.000	252.539	208257.58	0.1766	P	3.6
6	☐	500.000	504.717	418483.35	0.3529	P	1.0
7	☐	1000.000	996.497	848840.53	0.6967	P	2.4
8	☐			530.58	0.0004	P	8.4

$$y = 6.9902\text{E-}004 * x + 1.1735\text{E-}004$$

$$R = 1.0000$$

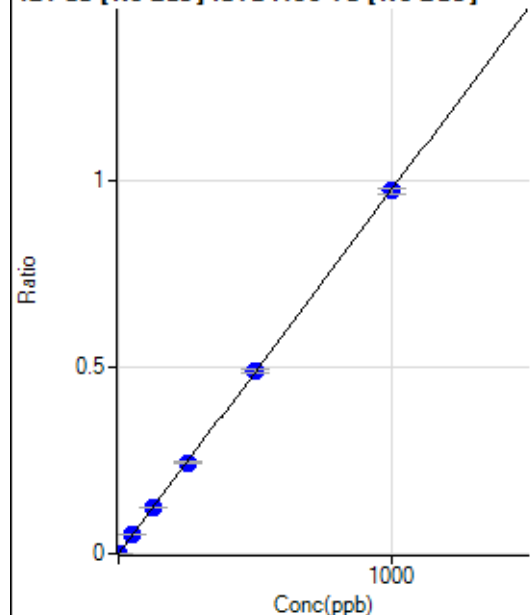
$$DL = 0.2931$$

$$BEC = 0.1679$$

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	30.56	0.0000	P	56.1
2	☐	2.000	1.987	2130.78	0.0020	P	7.1
3	☐	50.000	50.796	53993.65	0.0496	P	1.7
4	☐	125.000	127.839	138481.13	0.1248	P	1.2
5	☐	250.000	250.962	288801.39	0.2449	P	2.1
6	☐	500.000	503.685	582735.19	0.4915	P	1.9
7	☐	1000.000	997.522	1185882.06	0.9733	P	1.8
8	☐			908.38	0.0007	P	14.2

$$y = 9.7566\text{E-}004 * x + 2.8941\text{E-}005$$

$$R = 1.0000$$

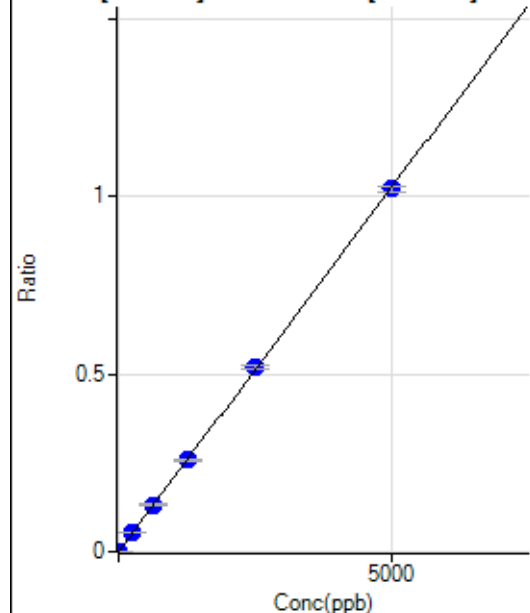
$$DL = 0.04988$$

$$BEC = 0.02966$$

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	8.33	0.0000	P	97.6
2	☐	10.000	10.439	2322.50	0.0021	P	4.9
3	☐	250.000	256.997	57325.39	0.0526	P	1.8
4	☐	625.000	645.441	146749.78	0.1322	P	1.0
5	☐	1250.000	1255.241	303112.97	0.2571	P	3.4
6	☐	2500.000	2530.353	614429.25	0.5183	P	1.9
7	☐	5000.000	4980.607	1243016.01	1.0201	P	1.4
8	☐			597.25	0.0005	P	6.3

$$y = 2.0482\text{E-}004 * x + 7.8309\text{E-}006$$

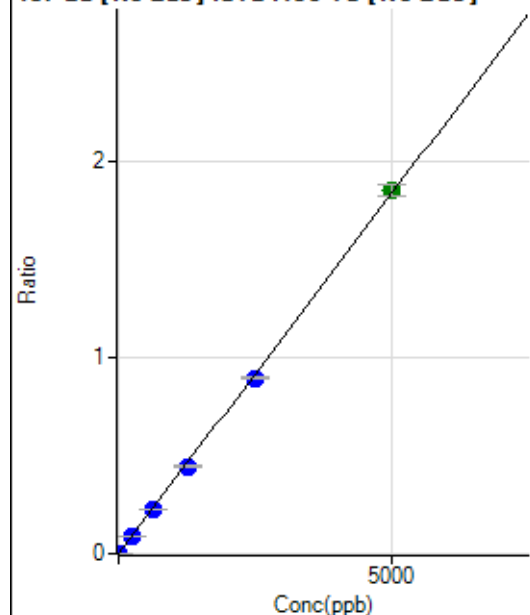
$$R = 1.0000$$

$$DL = 0.1119$$

$$BEC = 0.03823$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	126.7
2	☐	10.000	10.059	4011.82	0.0037	P	6.6
3	☐	250.000	247.456	98944.90	0.0909	P	2.5
4	☐	625.000	621.745	253430.39	0.2283	P	1.1
5	☐	1250.000	1205.383	521958.24	0.4426	P	2.3
6	☐	2500.000	2441.225	1062744.71	0.8964	P	1.3
7	☐	5000.000	5041.076	2255180.46	1.8511	A	3.0
8	☐			1022.29	0.0008	P	17.0

$$y = 3.6719E-004 * x + 1.3574E-005$$

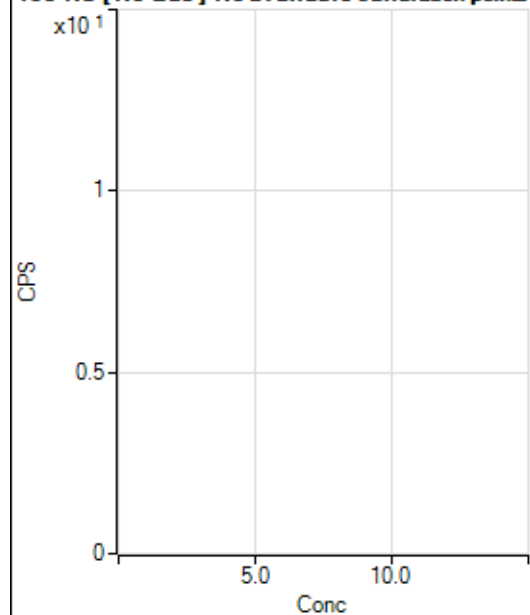
$$R = 0.9999$$

$$DL = 0.1405$$

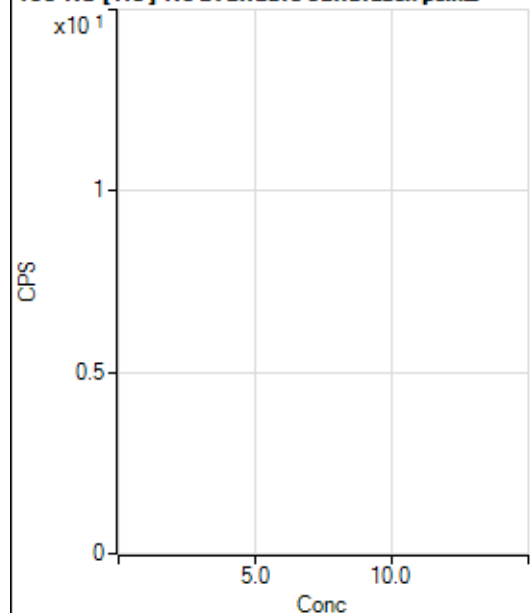
$$BEC = 0.03697$$

Weight: <None>

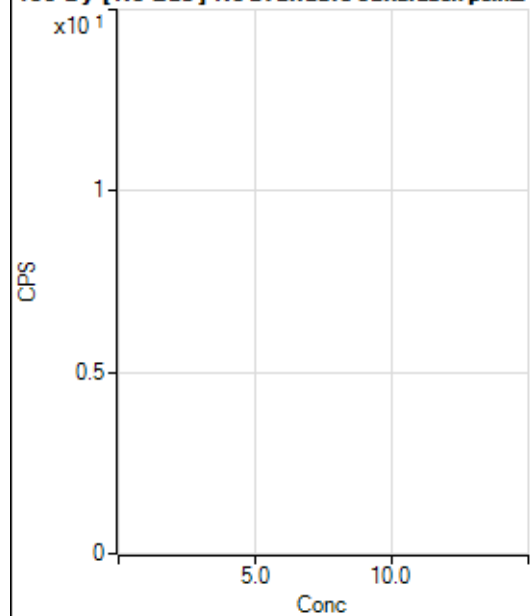
Min Conc: 0

150 Nd [No Gas] No available calibration points

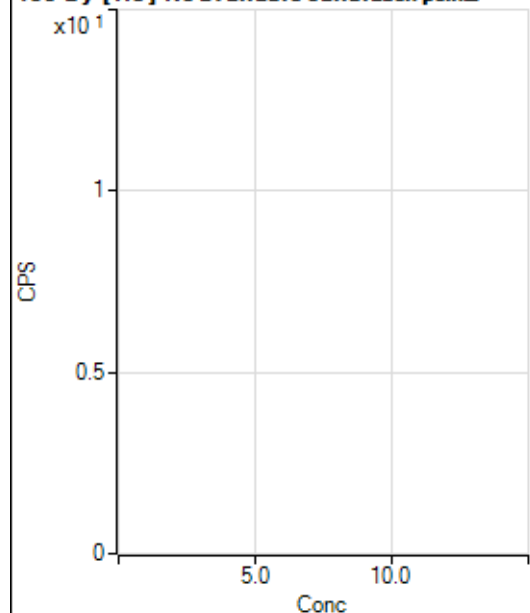
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11.11		P	69.3
2	☐			4.45		P	86.6
3	☐			6.67		P	100.0
4	☐			22.22		P	62.4
5	☐			20.00		P	33.4
6	☐			37.78		P	27.0
7	☐			55.56		P	25.0
8	☐			26.67		P	25.0

150 Nd [He] No available calibration points

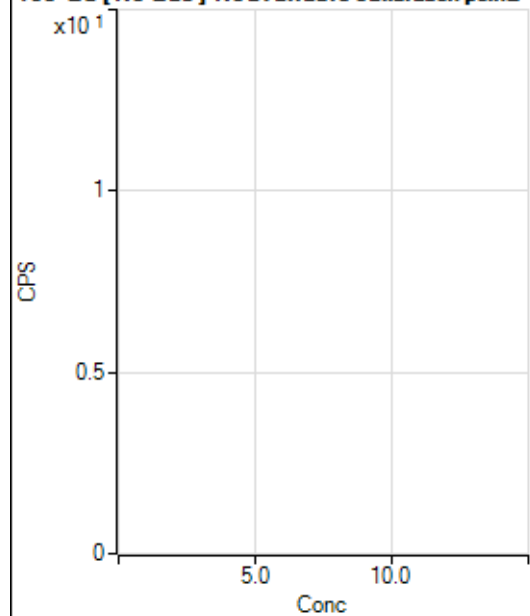
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			0.00		P	
5	☐			2.22		P	86.6
6	☐			6.67		P	86.6
7	☐			4.44		P	43.4
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

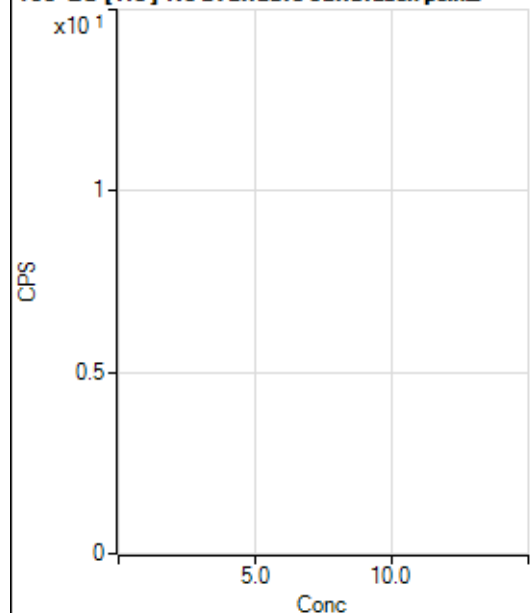
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			16.67		P	86.6
3	☐			19.44		P	49.5
4	☐			27.78		P	69.3
5	☐			25.00		P	0.0
6	☐			50.00		P	60.1
7	☐			63.89		P	45.8
8	☐			225.01		P	33.9

156 Dy [He] No available calibration points

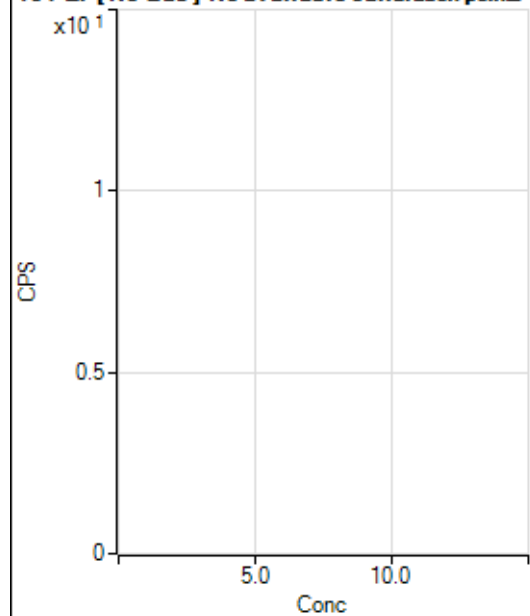
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			2.22		P	86.6
5	☐			11.11		P	62.5
6	☐			7.78		P	24.7
7	☐			23.33		P	37.8
8	☐			137.78		P	17.0

160 Gd [No Gas] Noavailable calibration poin_

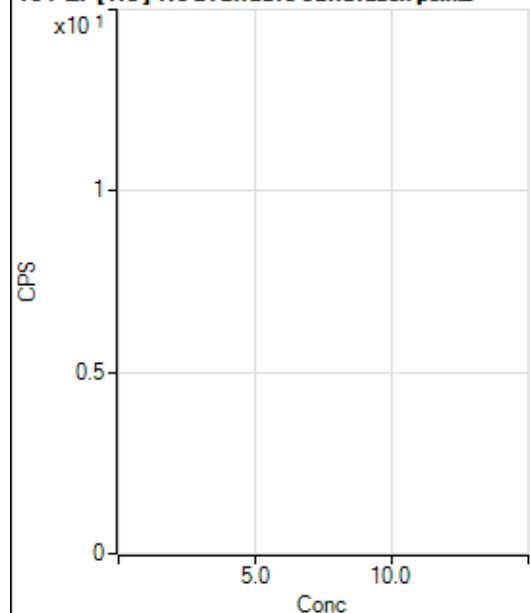
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			27.78		P	62.5
3	☐			13.89		P	34.7
4	☐			13.89		P	91.6
5	☐			22.22		P	142.0
6	☐			33.34		P	43.3
7	☐			52.78		P	74.6
8	☐			263.90		P	11.1

160 Gd [He] No available calibration points

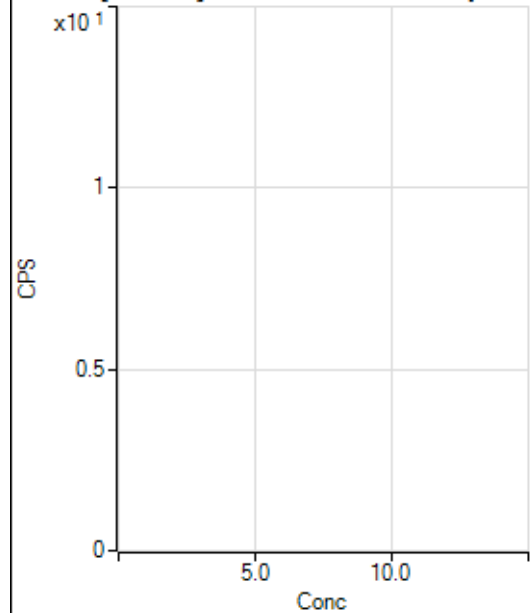
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			3.33		P	100.1
3	☐			5.56		P	173.2
4	☐			4.44		P	43.4
5	☐			4.44		P	43.4
6	☐			13.33		P	50.0
7	☐			38.89		P	26.2
8	☐			153.34		P	5.8

164 Er [No Gas] No available calibration points

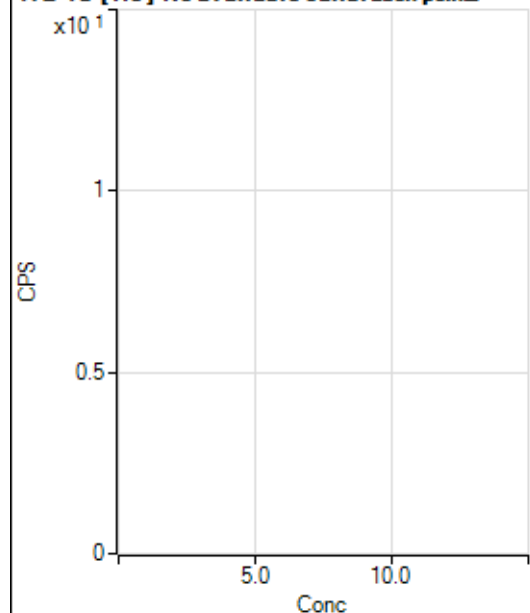
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	89.2
2	☐			27.78		P	45.8
3	☐			13.89		P	69.3
4	☐			5.55		P	86.6
5	☐			22.22		P	86.6
6	☐			13.89		P	124.9
7	☐			25.00		P	57.7
8	☐			36.11		P	70.5

164 Er [He] No available calibration points

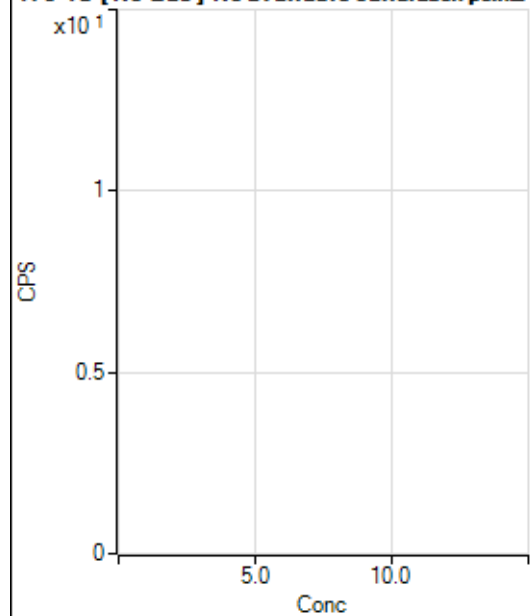
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.44		P	114.6
3	☐			4.44		P	114.6
4	☐			4.45		P	86.6
5	☐			3.33		P	100.1
6	☐			7.78		P	89.2
7	☐			5.56		P	34.7
8	☐			10.00		P	57.8

172 Yb [No Gas] No available calibration points

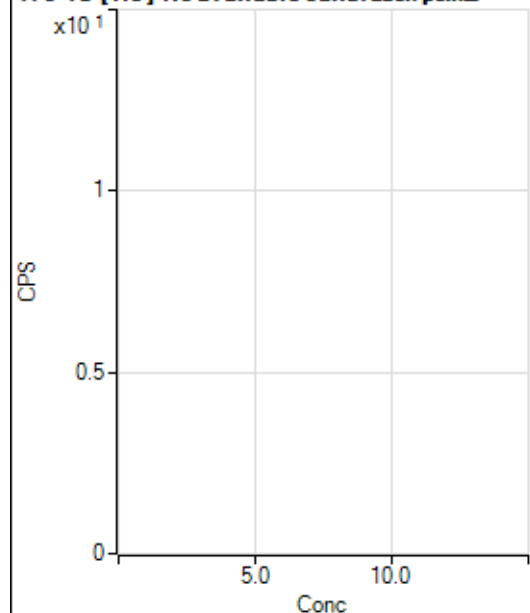
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.2
2	☐			2.78		P	173.2
3	☐			16.67		P	100.0
4	☐			11.11		P	43.3
5	☐			16.66		P	86.6
6	☐			16.66		P	86.6
7	☐			19.44		P	49.5
8	☐			16.67		P	132.3

172 Yb [He] No available calibration points

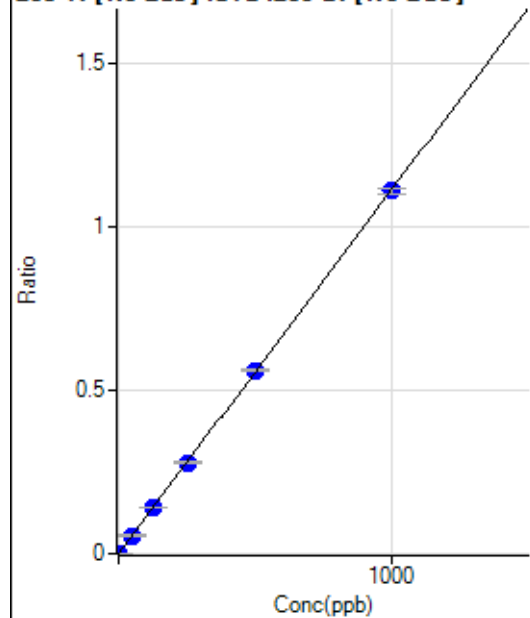
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.85		P	173.2
3	☐			1.85		P	173.2
4	☐			0.00		P	
5	☐			1.85		P	173.2
6	☐			0.00		P	
7	☐			1.85		P	173.2
8	☐			1.85		P	173.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			119.45		P	4.0
2	☐			88.89		P	5.4
3	☐			111.12		P	26.3
4	☐			80.56		P	21.5
5	☐			80.56		P	33.3
6	☐			111.12		P	26.3
7	☐			113.89		P	16.9
8	☐			108.34		P	33.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.30		P	20.3
2	☐			46.30		P	45.4
3	☐			79.63		P	24.5
4	☐			85.19		P	3.8
5	☐			68.52		P	40.0
6	☐			88.89		P	6.2
7	☐			96.30		P	24.0
8	☐			75.93		P	44.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	47.0
2	☐	1.000	1.027	694.48	0.0012	P	6.9
3	☐	50.000	50.177	33374.27	0.0559	P	1.6
4	☐	125.000	126.697	85834.03	0.1411	P	1.2
5	☐	250.000	250.265	180672.91	0.2787	P	1.5
6	☐	500.000	504.496	363663.63	0.5619	P	1.2
7	☐	1000.000	997.465	745532.16	1.1108	P	1.7
8	☐			341.68	0.0005	P	5.2

$$y = 0.0011 * x + 2.8555E-005$$

$$R = 1.0000$$

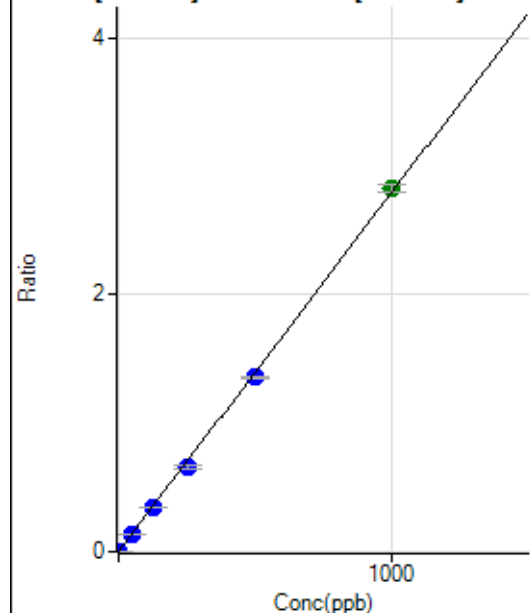
$$DL = 0.03619$$

$$BEC = 0.02564$$

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	61.11	0.0001	P	27.4
2	☐	1.000	1.071	1833.51	0.0031	P	0.5
3	☐	50.000	48.523	81034.31	0.1358	P	0.8
4	☐	125.000	121.985	207483.38	0.3411	P	1.0
5	☐	250.000	235.801	427216.18	0.6593	P	3.0
6	☐	500.000	486.790	880883.63	1.3610	P	1.0
7	☐	1000.000	1010.606	1896209.20	2.8253	A	2.2
8	☐			763.94	0.0012	P	27.5

$$y = 0.0028 * x + 1.0531E-004$$

$$R = 0.9998$$

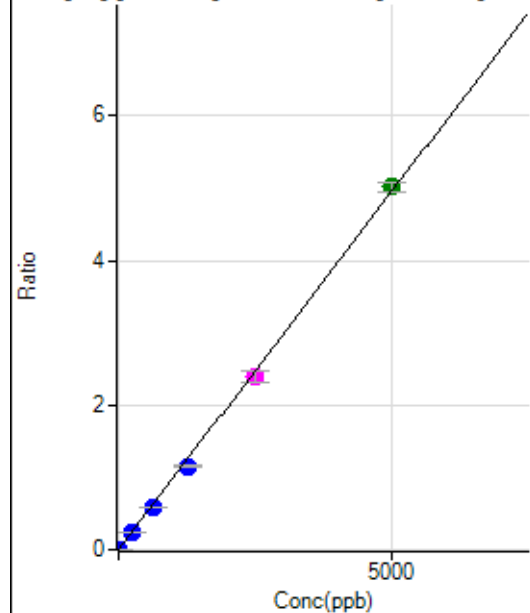
$$DL = 0.03094$$

$$BEC = 0.03767$$

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	92.59	0.0002	P	15.2
2	☐	1.000	0.991	675.96	0.0011	P	13.6
3	☐	250.000	234.493	138594.38	0.2322	P	1.8
4	☐	625.000	590.952	355768.65	0.5850	P	1.8
5	☐	1250.000	1165.662	747766.03	1.1538	P	2.4
6	☐	2500.000	2415.316	1547339.66	2.3905	M	6.5
7	☐	5000.000	5068.458	3366643.33	5.0162	A	2.4
8	☐			2163.18	0.0033	P	4.0

$$y = 9.8966E-004 * x + 1.5932E-004$$

$$R = 0.9996$$

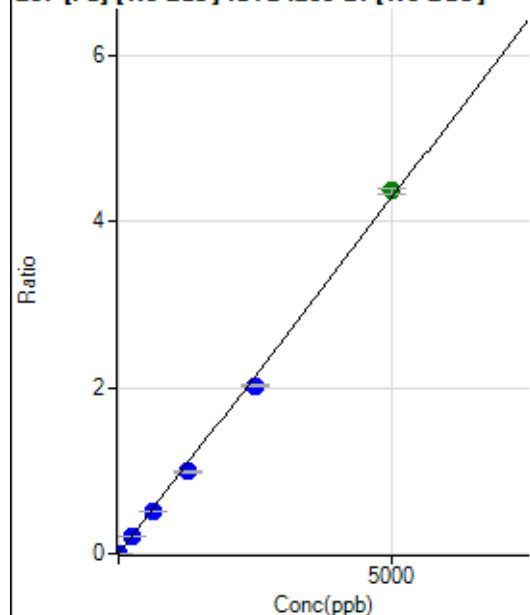
$$DL = 0.07332$$

$$BEC = 0.161$$

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	85.19	0.0001	P	17.9
2	☐	1.000	0.943	566.69	0.0010	P	9.5
3	☐	250.000	237.519	121637.44	0.2038	P	3.0
4	☐	625.000	594.410	310163.58	0.5099	P	0.9
5	☐	1250.000	1153.524	641178.28	0.9894	P	2.8
6	☐	2500.000	2359.491	1309788.90	2.0236	P	1.0
7	☐	5000.000	5098.821	2934704.11	4.3728	A	1.7
8	☐			1907.59	0.0029	P	5.1

$$y = 8.5758E-004 * x + 1.4774E-004$$

$$R = 0.9992$$

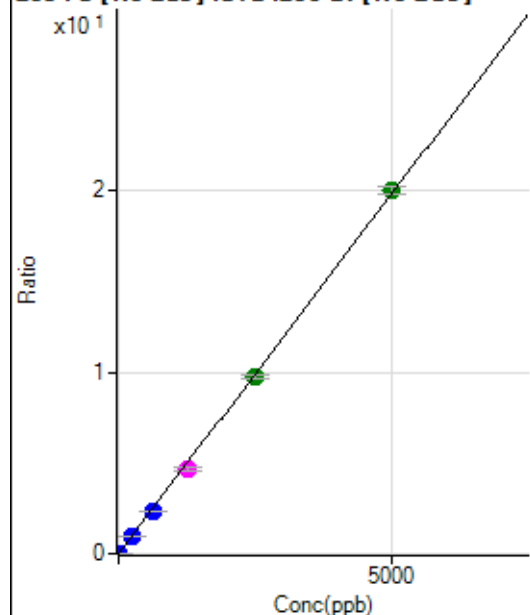
$$DL = 0.09243$$

$$BEC = 0.1723$$

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	394.45	0.0007	P	10.5
2	☐	1.000	0.926	2576.08	0.0043	P	9.4
3	☐	250.000	234.450	554820.22	0.9298	P	2.4
4	☐	625.000	589.467	1421268.11	2.3366	P	0.6
5	☐	1250.000	1180.061	3031399.57	4.6770	M	3.0
6	☐	2500.000	2457.462	6303755.67	9.7391	A	2.4
7	☐	5000.000	5043.973	13415018.2	19.9889	A	2.1
8	☐			8642.02	0.0130	P	5.3

$$y = 0.0040 * x + 6.7818E-004$$

$$R = 0.9998$$

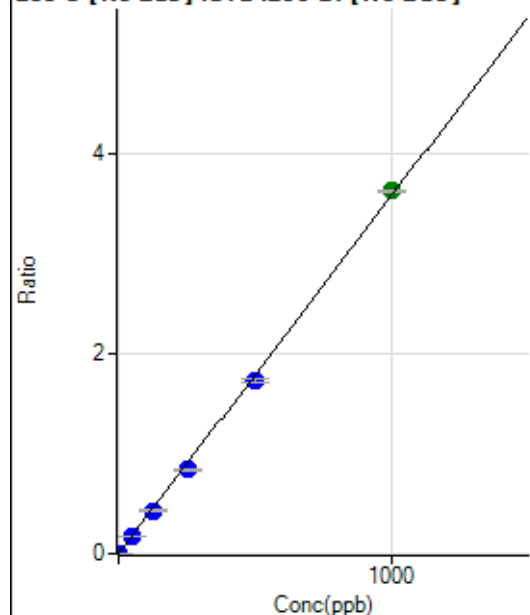
$$DL = 0.05414$$

$$BEC = 0.1711$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.2
2	☐	1.000	0.931	1997.43	0.0034	P	5.9
3	☐	50.000	47.223	101003.49	0.1692	P	0.9
4	☐	125.000	120.330	262206.21	0.4311	P	1.2
5	☐	250.000	235.804	547469.08	0.8448	P	2.5
6	☐	500.000	481.807	1117199.89	1.7260	P	1.9
7	☐	1000.000	1013.368	2436464.18	3.6303	A	0.4
8	☐			552.81	0.0008	P	24.5

$$y = 0.0036 * x + 3.8380E-005$$

$$R = 0.9996$$

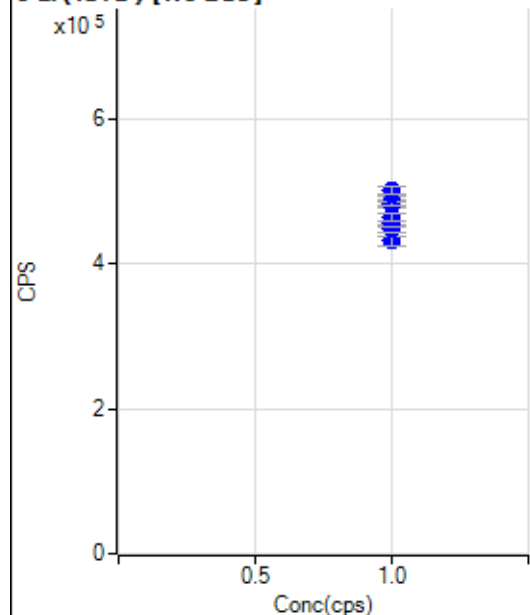
$$DL = 0.007129$$

$$BEC = 0.01071$$

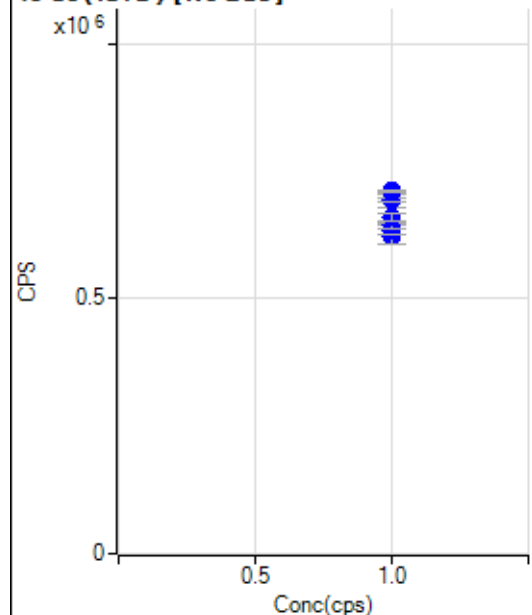
Weight: <None>

Min Conc: 0

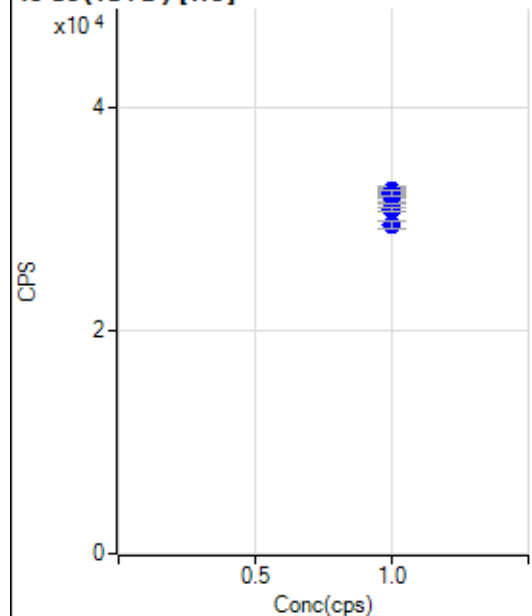
6 Li (ISTD) [No Gas]



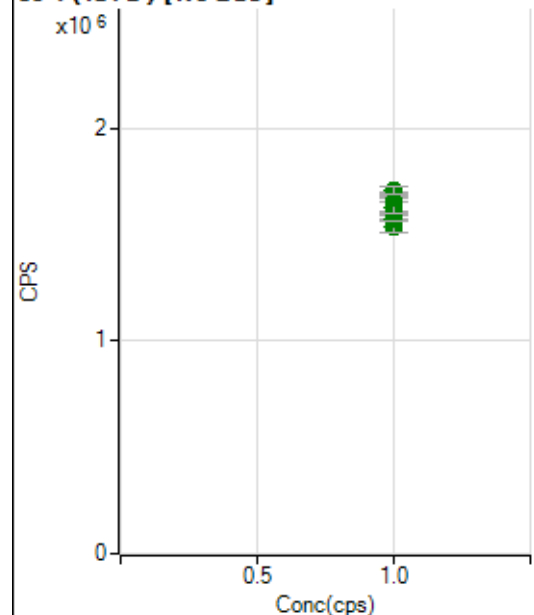
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		430979.84		P	3.1
2	☐	1.000		447157.05		P	2.3
3	☐	1.000		455237.67		P	1.8
4	☐	1.000		463444.39		P	1.9
5	☐	1.000		483232.03		P	2.0
6	☐	1.000		482270.92		P	0.7
7	☐	1.000		494743.32		P	0.3
8	☐	1.000		500019.80		P	2.0

45 Sc (ISTD) [No Gas]

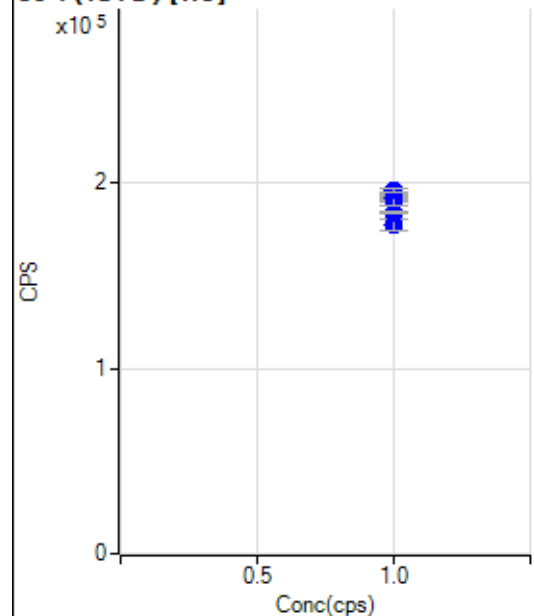
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		622044.27		P	4.8
2	☐	1.000		634747.25		P	2.4
3	☐	1.000		643239.93		P	1.4
4	☐	1.000		658820.79		P	2.3
5	☐	1.000		695505.53		P	4.8
6	☐	1.000		692679.48		P	1.2
7	☐	1.000		706837.65		P	0.2
8	☐	1.000		710893.50		P	0.7

45 Sc (ISTD) [He]

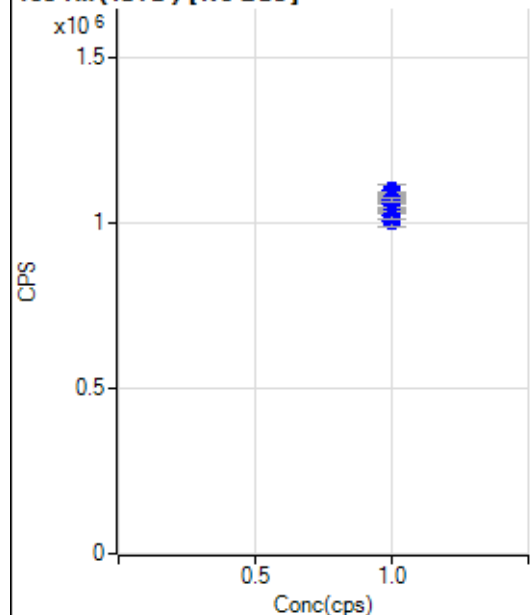
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		29529.26		P	2.3
2	☐	1.000		30827.49		P	1.0
3	☐	1.000		31854.18		P	2.1
4	☐	1.000		32147.08		P	1.8
5	☐	1.000		32343.06		P	2.8
6	☐	1.000		32519.02		P	2.1
7	☐	1.000		32132.68		P	4.5
8	☐	1.000		32277.31		P	1.7

89 Y (ISTD) [No Gas]

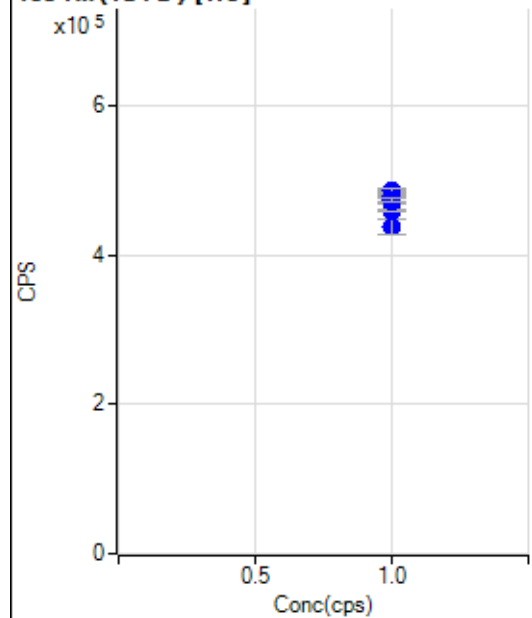
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1542447.37		A	4.1
2	☐	1.000		1577263.69		A	1.5
3	☐	1.000		1606458.64		A	0.9
4	☐	1.000		1630331.23		A	3.7
5	☐	1.000		1680172.87		A	3.0
6	☐	1.000		1674837.53		A	0.5
7	☐	1.000		1690924.19		A	0.8
8	☐	1.000		1707019.68		A	2.0

89 Y (ISTD) [He]

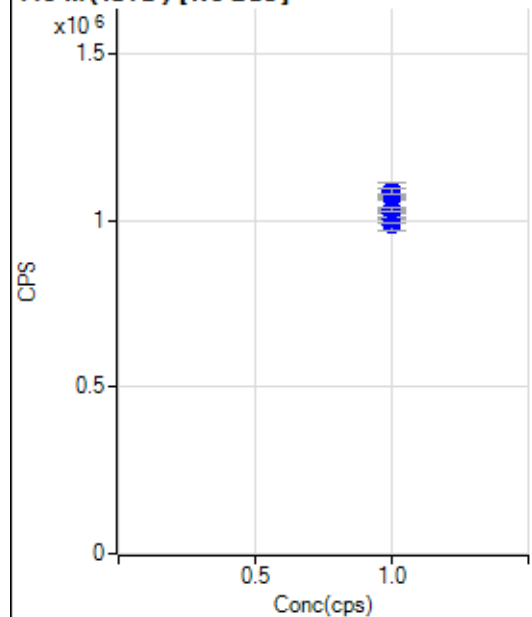
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		177542.98		P	3.6
2	☐	1.000		184031.51		P	0.6
3	☐	1.000		190789.84		P	1.3
4	☐	1.000		190965.80		P	0.4
5	☐	1.000		193430.09		P	1.0
6	☐	1.000		193790.02		P	0.7
7	☐	1.000		191669.01		P	3.8
8	☐	1.000		195697.23		P	1.2

103 Rh (ISTD) [No Gas]

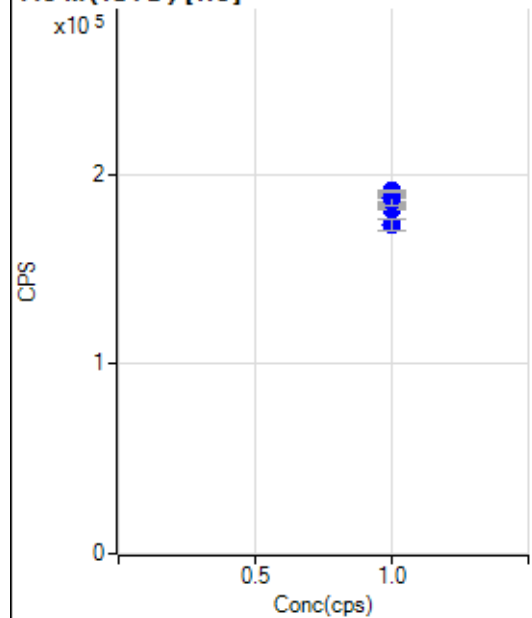
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1009884.24		P	4.4
2	☐	1.000		1027153.20		P	3.2
3	☐	1.000		1046581.57		P	1.9
4	☐	1.000		1059722.94		P	2.4
5	☐	1.000		1098289.50		P	3.9
6	☐	1.000		1081082.85		P	0.7
7	☐	1.000		1092872.44		P	0.8
8	☐	1.000		1070257.55		P	1.0

103 Rh (ISTD) [He]

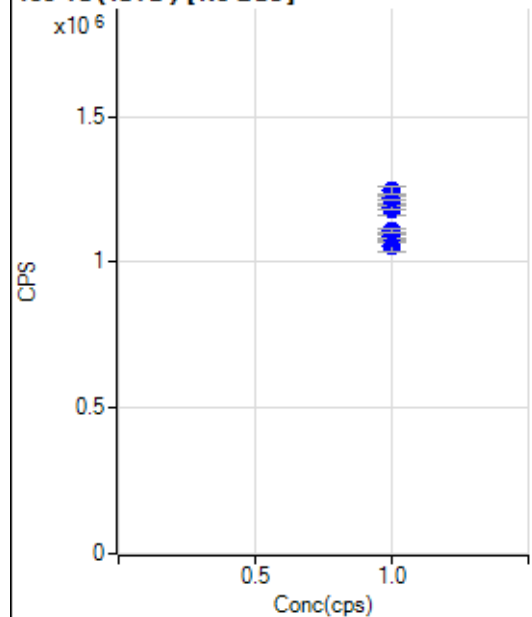
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		437114.51		P	4.4
2	☐	1.000		458968.76		P	0.5
3	☐	1.000		469616.04		P	0.6
4	☐	1.000		479197.75		P	0.7
5	☐	1.000		485035.23		P	0.1
6	☐	1.000		485386.52		P	1.4
7	☐	1.000		478145.31		P	4.2
8	☐	1.000		473319.85		P	0.8

115 In (ISTD) [No Gas]

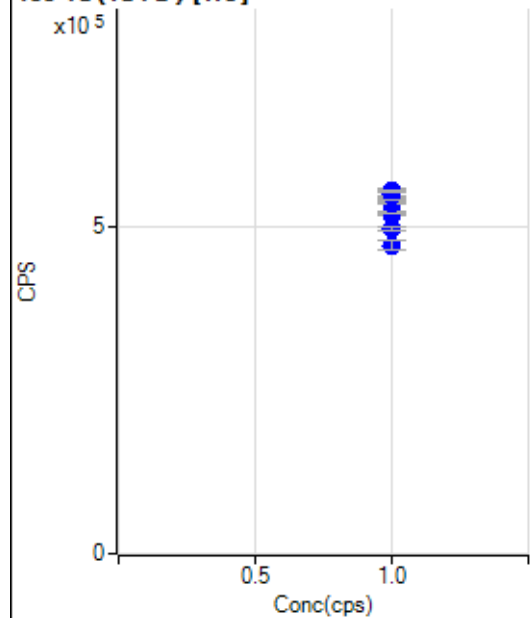
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		984999.28		P	3.4
2	☐	1.000		1003835.04		P	2.9
3	☐	1.000		1020764.95		P	2.1
4	☐	1.000		1031681.54		P	1.5
5	☐	1.000		1087659.57		P	4.5
6	☐	1.000		1067436.59		P	0.6
7	☐	1.000		1073352.79		P	0.4
8	☐	1.000		1086510.14		P	1.9

115 In (ISTD) [He]

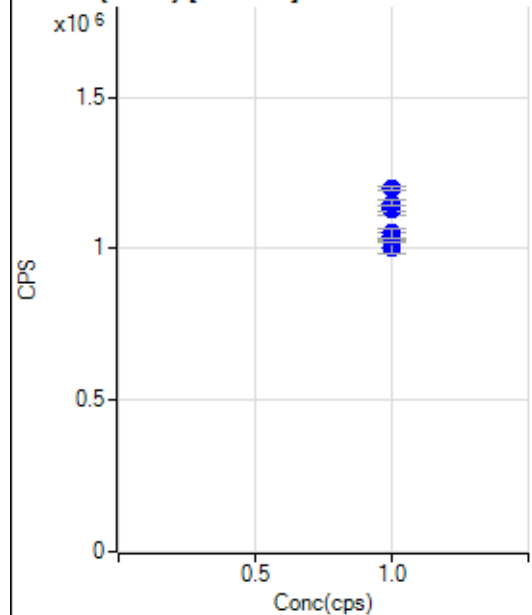
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		173061.04		P	3.5
2	☐	1.000		181974.52		P	0.5
3	☐	1.000		185166.08		P	0.7
4	☐	1.000		188362.16		P	0.7
5	☐	1.000		190877.46		P	0.2
6	☐	1.000		189364.40		P	0.3
7	☐	1.000		187217.97		P	4.1
8	☐	1.000		191414.27		P	0.7

159 Tb (ISTD) [No Gas]

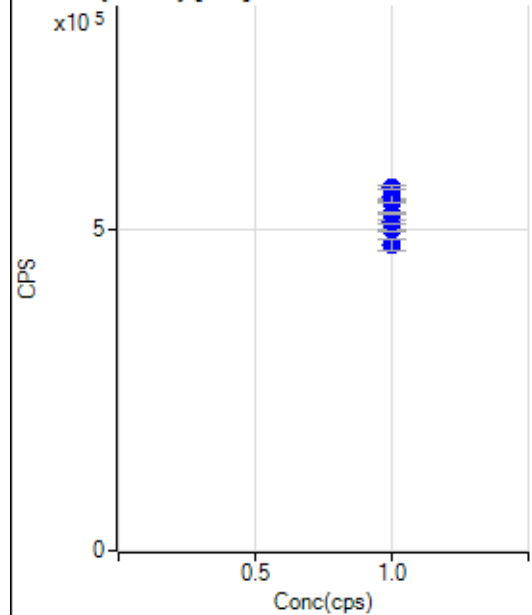
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1057134.57		P	3.8
2	☐	1.000		1082118.34		P	2.6
3	☐	1.000		1089067.48		P	2.0
4	☐	1.000		1110089.71		P	1.1
5	☐	1.000		1179839.76		P	3.3
6	☐	1.000		1185679.30		P	1.2
7	☐	1.000		1218645.54		P	1.3
8	☐	1.000		1244223.55		P	2.0

159 Tb (ISTD) [He]

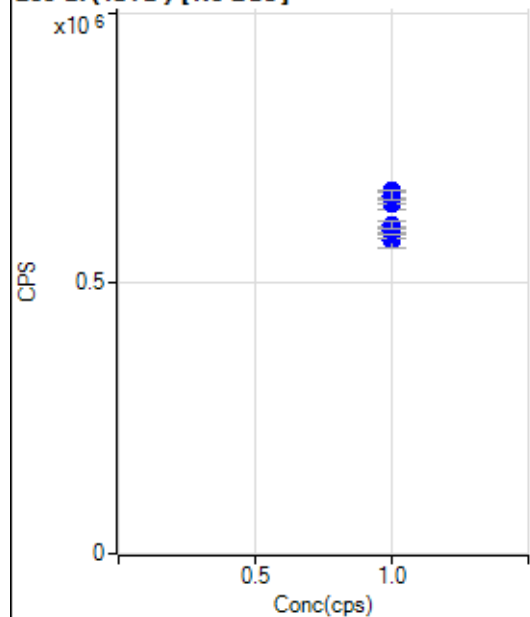
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		472804.40		P	3.6
2	☐	1.000		498357.24		P	0.9
3	☐	1.000		518190.57		P	0.4
4	☐	1.000		523435.44		P	0.6
5	☐	1.000		537292.69		P	0.9
6	☐	1.000		546649.88		P	0.8
7	☐	1.000		551614.16		P	3.4
8	☐	1.000		555804.52		P	0.3

165 Ho (ISTD) [No Gas]

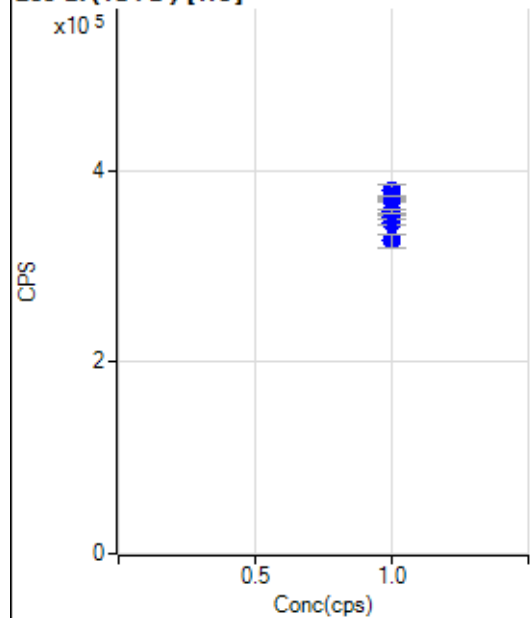
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1003405.84		P	4.3
2	☐	1.000		1038013.19		P	2.8
3	☐	1.000		1050036.45		P	2.7
4	☐	1.000		1051805.01		P	3.1
5	☐	1.000		1135770.61		P	4.4
6	☐	1.000		1130886.77		P	1.7
7	☐	1.000		1151083.42		P	1.4
8	☐	1.000		1196636.44		P	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		475507.70		P	4.0
2	☐	1.000		498345.51		P	0.5
3	☐	1.000		510413.23		P	0.9
4	☐	1.000		523879.96		P	0.5
5	☐	1.000		540659.85		P	0.4
6	☐	1.000		544269.28		P	0.6
7	☐	1.000		551061.63		P	3.9
8	☐	1.000		563703.30		P	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		579791.24		P	4.7
2	☐	1.000		591536.73		P	3.1
3	☐	1.000		596968.72		P	2.5
4	☐	1.000		608315.65		P	2.4
5	☐	1.000		648405.97		P	3.3
6	☐	1.000		647252.18		P	0.1
7	☐	1.000		671145.94		P	0.3
8	☐	1.000		663347.84		P	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		326777.79		P	4.1
2	☐	1.000		346522.15		P	1.2
3	☐	1.000		351821.26		P	1.2
4	☐	1.000		357909.13		P	1.2
5	☐	1.000		368934.04		P	1.0
6	☐	1.000		371135.64		P	0.4
7	☐	1.000		379038.74		P	3.7
8	☐	1.000		373738.60		P	0.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8061821 MS.b
Acq. Date-Time 2021-06-18 10:58:44
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		1829	18287.05			1.931	5.000
24		11434	114337.48			1.076	5.000
25		1639	16387.07			1.772	5.000
26		1970	19696.19			2.158	5.000
59		5861	58605.62			1.508	5.000
113		1127	11272.13			2.234	5.000
115		7994	79939.55			2.655	5.000
206		1830	18300.67			1.628	5.000
207		1571	15713.76			2.412	5.000
208		3838	38383.58			2.119	5.000
220		1	12.30			22.560	

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

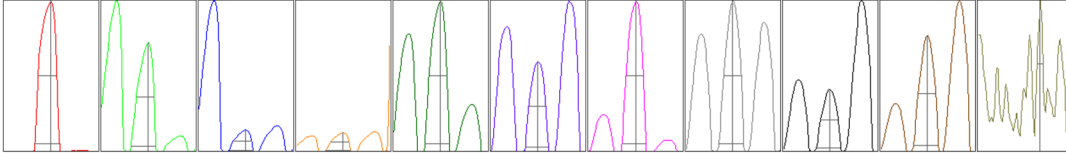
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1840	1874	1822	1831	1777
24	11423	11614	11443	11421	11267
25	1642	1686	1624	1633	1609
26	1979	2028	1967	1965	1909
59	5870	6010	5807	5822	5794
113	1129	1165	1118	1130	1095
115	8230	8213	7884	7868	7774
206	1824	1881	1822	1823	1801
207	1569	1636	1551	1564	1538
208	3814	3976	3820	3824	3758

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3286.67	9.00	8.90 - 9.10	
24	21524.99	24.00	23.90 - 24.10	
25	3015.03	25.00	24.90 - 25.10	
26	3526.17	26.00	25.90 - 26.10	
59	10897.84	59.00	58.90 - 59.10	
113	2231.12	113.00	112.90 - 113.10	
115	15415.48	115.05	114.90 - 115.10	
206	3488.51	206.00	205.90 - 206.10	
207	2992.36	207.00	206.90 - 207.10	
208	7317.08	208.00	207.90 - 208.10	
220	2.15	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.776	0.900	
24	0.56	0.780	0.900	
25	0.57	0.741	0.900	
26	0.59	0.782	0.900	
59	0.56	0.779	0.900	
113	0.53	0.728	0.900	
115	0.53	0.764	0.900	
206	0.55	0.781	0.900	
207	0.55	0.783	0.900	
208	0.55	0.785	0.900	
220	0.20			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.48 L/min Dilution Gas 0.44 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	16.6 V
Extract 2	-250.0 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	200 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1499 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1455	14547.37			0.685	
89		2422	24218.72			0.908	
205		855	8550.68			1.549	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1462	1455	1440	1451	1466
89	2413	2438	2387	2433	2438
205	855	856	836	873	856

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.48 L/min	Dilution Gas	0.44 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-250.0 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	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.7 mm		
EM					
Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1499 V