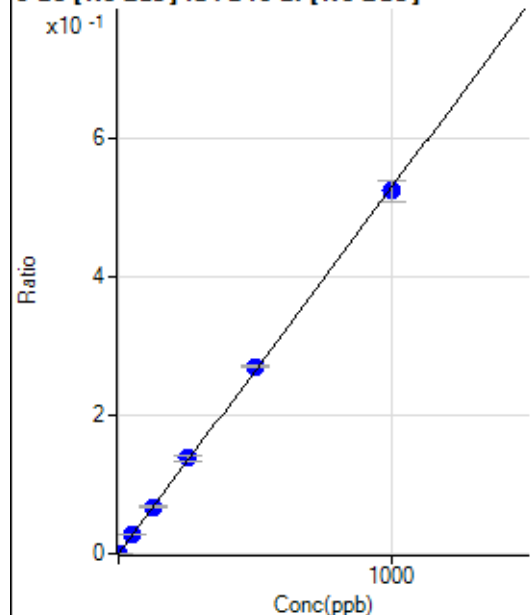


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120220MS.b\
Analysis File: P8120220MS.batch.bin
DA Date-Time: 2020-12-10 00:42:04
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-02 12:29:47
2	004CALS.d	S02	2020-12-02 12:32:59
3	005CALS.d	S03	2020-12-02 12:36:09
4	006CALS.d	S04	2020-12-02 12:39:21
5	007CALS.d	S05	2020-12-02 12:42:26
6	008CALS.d	S06	2020-12-02 12:45:28
7	009CALS.d	S07	2020-12-02 12:48:25
8	010CALS.d	S08	2020-12-02 12:51:26

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.66	0.0000	P	35.0
2	☐	1.000	0.848	739.21	0.0005	P	3.2
3	☐	50.000	50.428	42641.39	0.0267	P	1.1
4	☐	125.000	127.436	105627.05	0.0674	P	4.6
5	☐	250.000	261.337	215415.02	0.1382	P	6.1
6	☐	500.000	511.664	432171.18	0.2705	P	1.1
7	☐	1000.000	991.008	835507.55	0.5238	P	6.2
8	☐			695.88	0.0005	P	11.7

$$y = 5.2856\text{E-}004 * x + 2.4023\text{E-}005$$

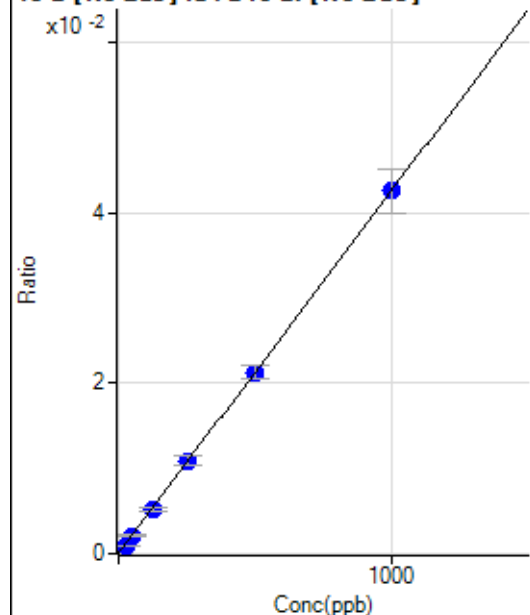
$$R = 0.9998$$

$$DL = 0.04778$$

$$BEC = 0.04545$$

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	88.65	0.0001	P	4.6
2	☐	25.000	19.315	1378.47	0.0009	P	6.8
3	☐	50.000	48.460	3389.74	0.0021	P	8.3
4	☐	125.000	121.725	8216.04	0.0052	P	9.6
5	☐	250.000	255.690	17045.86	0.0109	P	9.9
6	☐	500.000	499.100	34015.17	0.0213	P	6.9
7	☐	1000.000	999.656	67794.02	0.0426	P	12.5
8	☐			9537.26	0.0063	P	17.5

$$y = 4.2543\text{E-}005 * x + 5.8095\text{E-}005$$

$$R = 1.0000$$

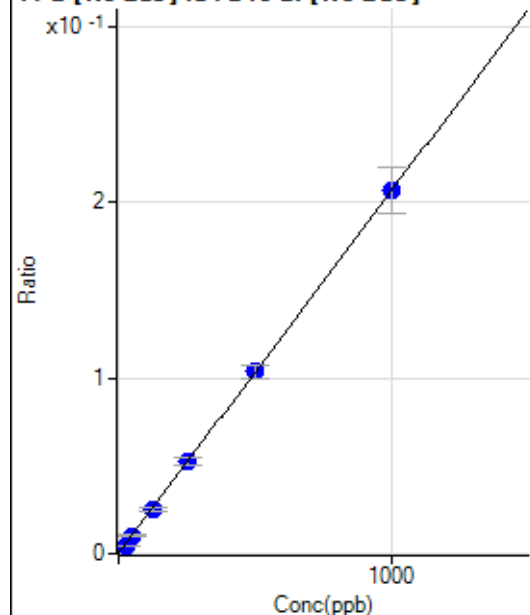
$$DL = 0.1888$$

$$BEC = 1.366$$

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	275.95	0.0002	P	11.5
2	☐	25.000	19.118	6452.15	0.0041	P	10.8
3	☐	50.000	47.976	16102.97	0.0101	P	6.7
4	☐	125.000	121.504	39571.83	0.0252	P	6.9
5	☐	250.000	253.457	81726.82	0.0524	P	9.7
6	☐	500.000	500.322	165046.59	0.1033	P	7.1
7	☐	1000.000	999.660	328265.10	0.2062	P	12.6
8	☐			45433.12	0.0301	P	14.9

$$y = 2.0613E-004 * x + 1.8083E-004$$

$$R = 1.0000$$

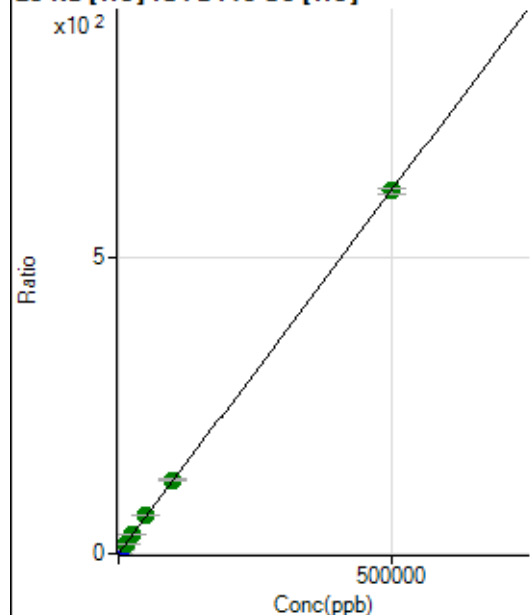
$$DL = 0.3033$$

$$BEC = 0.8773$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28013.59	0.3170	P	2.8
2	☐	500.000	449.495	77173.67	0.8693	P	1.0
3	☐	5000.000	5414.054	627306.17	6.9694	P	1.5
4	☐	12500.000	13215.462	1490592.25	16.5553	A	2.0
5	☐	25000.000	26101.050	2911012.98	32.3882	A	1.2
6	☐	50000.000	52367.623	5878133.12	64.6628	A	2.9
7	☐	100000.00	101686.47	11540095.31	125.2625	A	2.6
8	☐	500000.00	499348.91	55190698.46	613.8834	A	1.4

$$y = 0.0012 * x + 0.3170$$

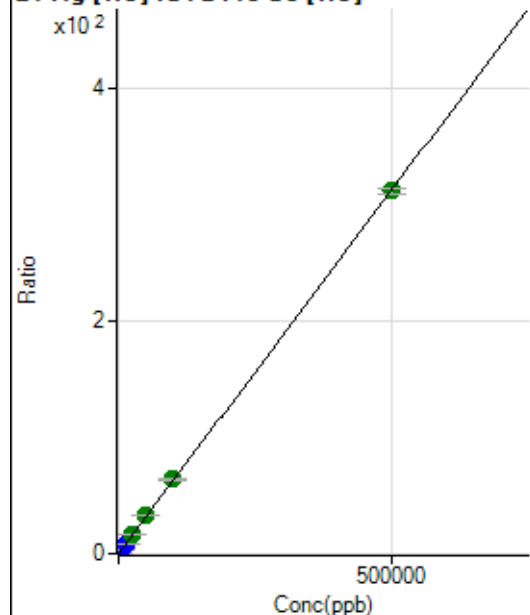
$$R = 1.0000$$

$$DL = 21.53$$

$$BEC = 258$$

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	536.14	0.0061	P	26.4
2	☐	500.000	448.696	25397.61	0.2861	P	2.2
3	☐	5000.000	5490.547	308938.22	3.4325	P	1.8
4	☐	12500.000	13308.944	748368.77	8.3116	P	2.1
5	☐	25000.000	26535.026	1488932.64	16.5655	A	0.5
6	☐	50000.000	53060.260	3010695.10	33.1188	A	2.4
7	☐	100000.00	101945.47	5862083.25	63.6260	A	1.9
8	☐	500000.00	499203.05	28008033.61	311.5377	A	1.6

$$y = 6.2406\text{E-}004 * x + 0.0061$$

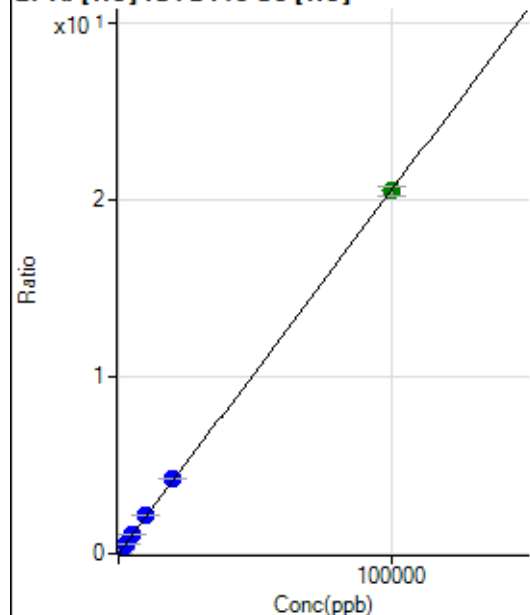
R = 1.0000

DL = 7.717

BEC = 9.744

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	397.46	0.0045	P	7.6
2	☐	20.000	19.372	752.85	0.0085	P	2.5
3	☐	1000.000	1072.652	20266.52	0.2252	P	1.9
4	☐	2500.000	2618.921	48917.04	0.5433	P	1.9
5	☐	5000.000	5179.456	96180.76	1.0701	P	0.8
6	☐	10000.000	10571.681	198113.37	2.1794	P	2.5
7	☐	20000.000	20509.300	389177.98	4.2239	P	0.7
8	☐	100000.00	99828.300	1846627.88	20.5421	A	2.4

$$y = 2.0573\text{E-}004 * x + 0.0045$$

R = 1.0000

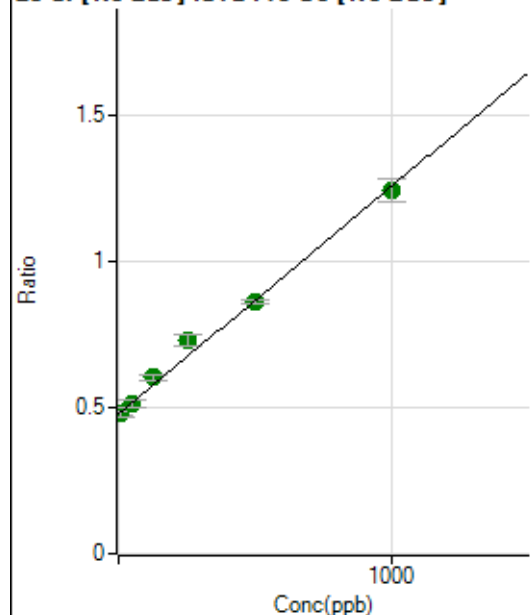
DL = 4.96

BEC = 21.85

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	1095962.82	0.4785	A	2.7
2	☐	10.000	-0.981	1109362.86	0.4778	A	4.7
3	☐	50.000	44.054	1207972.51	0.5129	A	4.7
4	☐	125.000	160.068	1393885.31	0.6033	A	3.8
5	☐	250.000	324.200	1645492.63	0.7313	A	6.1
6	☐	500.000	495.907	2072859.86	0.8652	A	1.7
7	☐	1000.000	979.520	2921393.88	1.2423	A	6.4
8	☐			1251885.76	0.5668	A	6.6

$$y = 7.7970\text{E-}004 * x + 0.4785$$

$$R = 0.9959$$

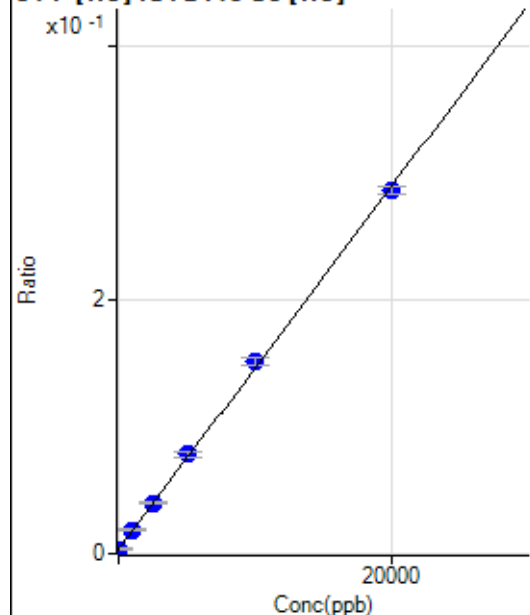
$$DL = 49.77$$

$$BEC = 613.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-13.828	286.12	0.0032	P	4.5
2	☐	0.000	13.828	322.23	0.0036	P	18.1
3	☐	1000.000	1057.585	1672.36	0.0186	P	9.4
4	☐	2500.000	2539.302	3578.32	0.0398	P	5.3
5	☐	5000.000	5248.626	7054.67	0.0785	P	5.4
6	☐	10000.000	10360.736	13781.90	0.1516	P	3.4
7	☐	20000.000	19749.684	26341.09	0.2859	P	2.3
8	☐			297.23	0.0033	P	24.2

$$y = 1.4302\text{E-}005 * x + 0.0034$$

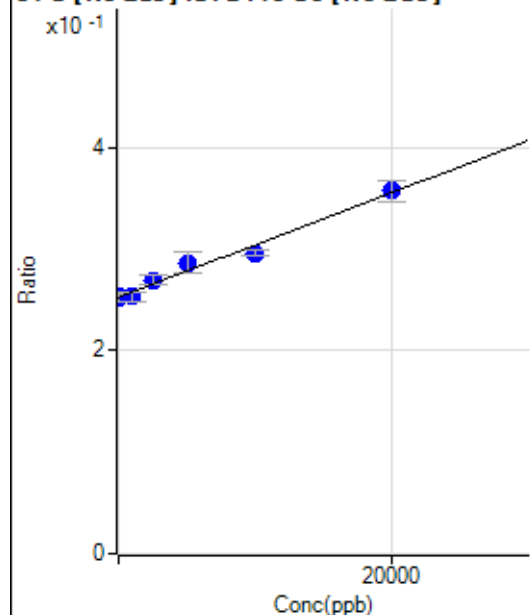
$$R = 0.9997$$

$$DL = 84.34$$

$$BEC = 240.2$$

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	344.642	582555.34	0.2543	P	1.5
2	☐	0.000	-344.642	582532.83	0.2508	P	3.1
3	☐	1000.000	113.309	596399.86	0.2531	P	3.4
4	☐	2500.000	3252.855	622089.64	0.2693	P	3.6
5	☐	5000.000	6595.184	644265.54	0.2864	P	6.8
6	☐	10000.000	8442.683	708991.02	0.2959	P	1.8
7	☐	20000.000	20330.090	839740.81	0.3570	P	5.5
8	☐			542779.47	0.2457	P	6.6

$$y = 5.1366\text{E-}006 * x + 0.2526$$

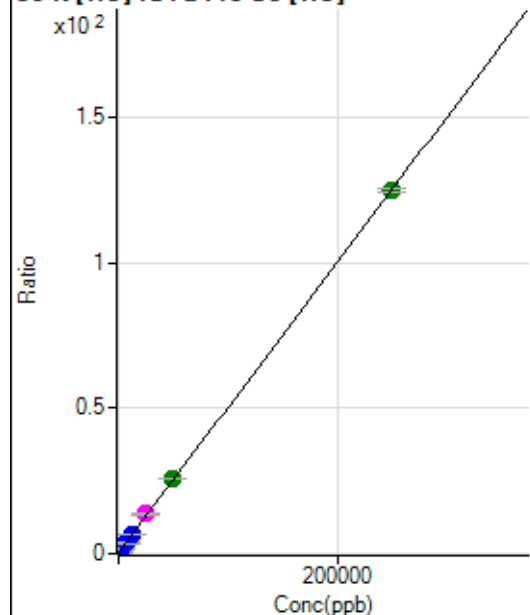
$$R = 0.9897$$

$$DL = 3331$$

$$BEC = 4.917\text{E}+04$$

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	26811.62	0.3034	P	3.6
2	☐	500.000	431.799	46076.75	0.5190	P	0.4
3	☐	2500.000	2692.969	148329.08	1.6479	P	1.0
4	☐	6250.000	6697.895	328396.63	3.6473	P	2.1
5	☐	12500.000	13205.085	619825.73	6.8961	P	0.6
6	☐	25000.000	26722.842	1240546.28	13.6448	M	1.4
7	☐	50000.000	51176.416	2381951.48	25.8533	A	1.5
8	☐	250000.00	249544.18	11228620.47	124.8884	A	1.0

$$y = 4.9925\text{E-}004 * x + 0.3034$$

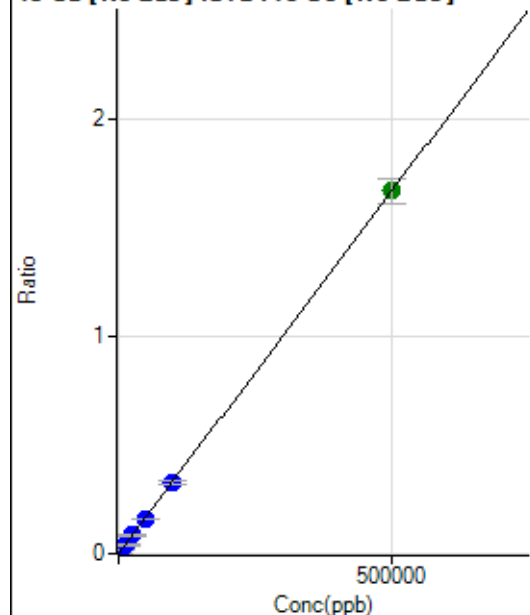
$$R = 1.0000$$

$$DL = 65.61$$

$$BEC = 607.7$$

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	385.79	0.0002	P	5.5
2	☐	500.000	391.761	3420.41	0.0015	P	4.5
3	☐	5000.000	4745.200	37621.43	0.0160	P	3.9
4	☐	12500.000	12092.228	93422.08	0.0404	P	3.8
5	☐	25000.000	25321.254	189964.71	0.0845	P	7.7
6	☐	50000.000	48651.377	388573.38	0.1622	P	1.3
7	☐	100000.00	97170.545	761472.72	0.3237	P	5.9
8	☐	500000.00	500697.54	3683038.66	1.6675	A	6.7

$$y = 3.3300\text{E-}006 * x + 1.6837\text{E-}004$$

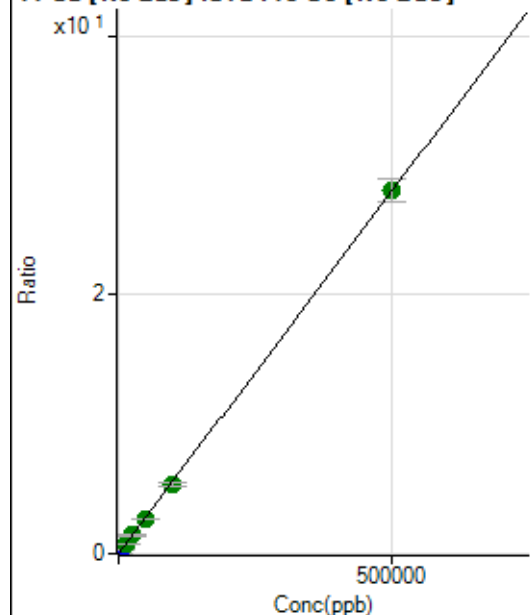
$$R = 1.0000$$

$$DL = 8.305$$

$$BEC = 50.56$$

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	15718.84	0.0069	P	1.8
2	☐	500.000	406.068	68661.41	0.0296	P	3.0
3	☐	5000.000	4855.187	655477.87	0.2782	P	3.7
4	☐	12500.000	12262.709	1599242.88	0.6923	A	3.9
5	☐	25000.000	25614.432	3234262.49	1.4385	A	7.8
6	☐	50000.000	48524.553	6515109.01	2.7190	A	1.3
7	☐	100000.00	95654.535	12589496.86	5.3532	A	6.3
8	☐	500000.00	500993.39	61875514.83	28.0086	A	6.4

$$y = 5.5892\text{E-}005 * x + 0.0069$$

$$R = 1.0000$$

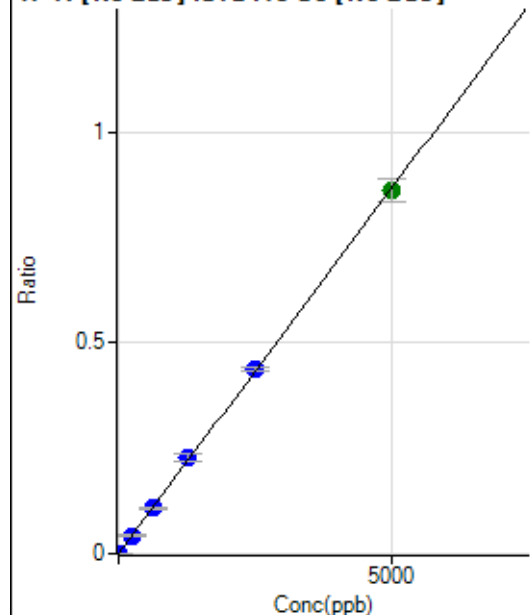
$$DL = 6.704$$

$$BEC = 122.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.90	0.0001	P	22.4
2	☐	5.000	4.160	1991.86	0.0009	P	6.4
3	☐	250.000	247.351	101162.49	0.0429	P	4.5
4	☐	625.000	628.363	251491.98	0.1089	P	4.9
5	☐	1250.000	1327.515	516793.89	0.2299	P	8.1
6	☐	2500.000	2526.917	1048245.86	0.4375	P	1.2
7	☐	5000.000	4966.876	2021953.34	0.8598	A	6.3
8	☐			1097.30	0.0005	P	24.8

$$y = 1.7307\text{E-}004 * x + 1.3694\text{E-}004$$

R = 0.9998

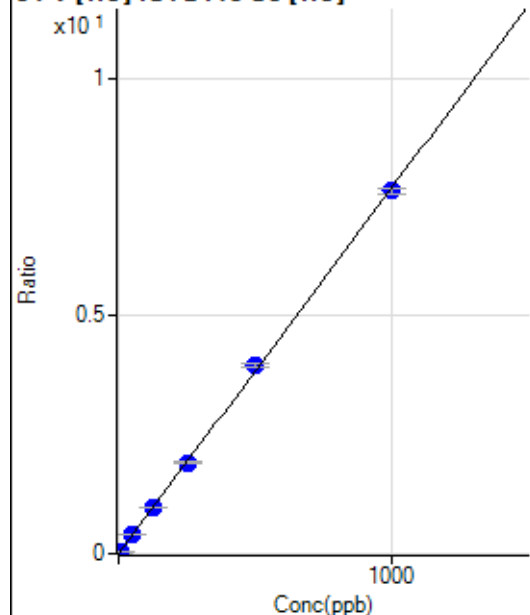
DL = 0.5308

BEC = 0.7913

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0001	P	47.5
2	☐	5.000	4.362	2987.00	0.0336	P	0.3
3	☐	50.000	51.372	35537.45	0.3948	P	1.9
4	☐	125.000	125.197	86616.65	0.9620	P	2.1
5	☐	250.000	249.483	172292.15	1.9169	P	0.9
6	☐	500.000	514.282	359210.08	3.9514	P	2.1
7	☐	1000.000	992.898	702851.24	7.6286	P	1.5
8	☐			312.23	0.0035	P	6.7

$$y = 0.0077 * x + 1.2633\text{E-}004$$

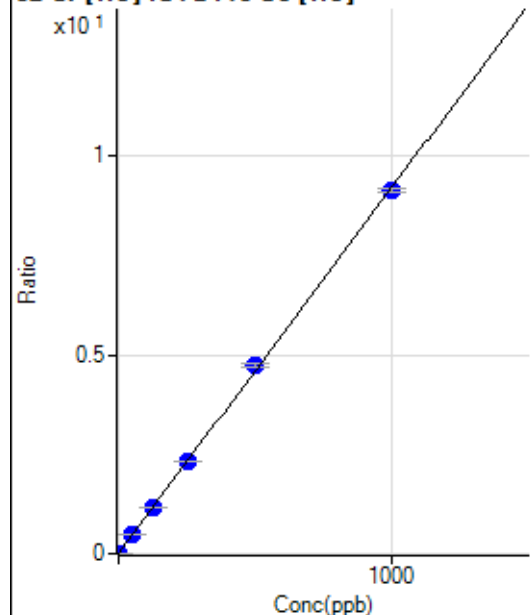
R = 0.9998

DL = 0.02343

BEC = 0.01644

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	535.57	0.0061	P	8.6
2	☐	2.000	1.859	2055.72	0.0232	P	4.2
3	☐	50.000	51.311	43043.52	0.4782	P	1.0
4	☐	125.000	125.939	104890.78	1.1649	P	1.6
5	☐	250.000	251.035	208165.53	2.3160	P	0.7
6	☐	500.000	515.432	431730.41	4.7489	P	1.8
7	☐	1000.000	991.843	841453.82	9.1328	P	1.1
8	☐			16642.01	0.1851	P	1.5

$$y = 0.0092 * x + 0.0061$$

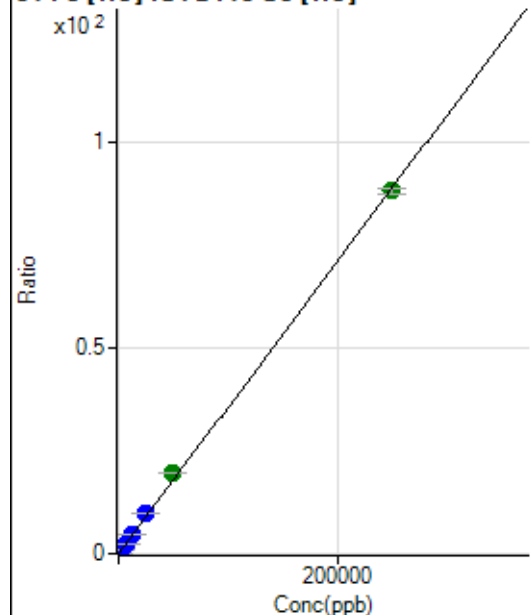
$$R = 0.9998$$

$$DL = 0.1706$$

$$BEC = 0.6579$$

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	357.42	0.0041	P	20.6
2	☐	50.000	48.508	1889.04	0.0213	P	1.9
3	☐	2500.000	2812.023	90242.08	1.0027	P	2.7
4	☐	6250.000	6876.257	220246.80	2.4461	P	1.9
5	☐	12500.000	13699.827	437684.35	4.8695	P	0.2
6	☐	25000.000	27960.005	903129.28	9.9339	P	1.6
7	☐	50000.000	55192.157	1806352.56	19.6053	A	1.0
8	☐	250000.00	248586.80	7937497.11	88.2886	A	1.7

$$y = 3.5515E-004 * x + 0.0041$$

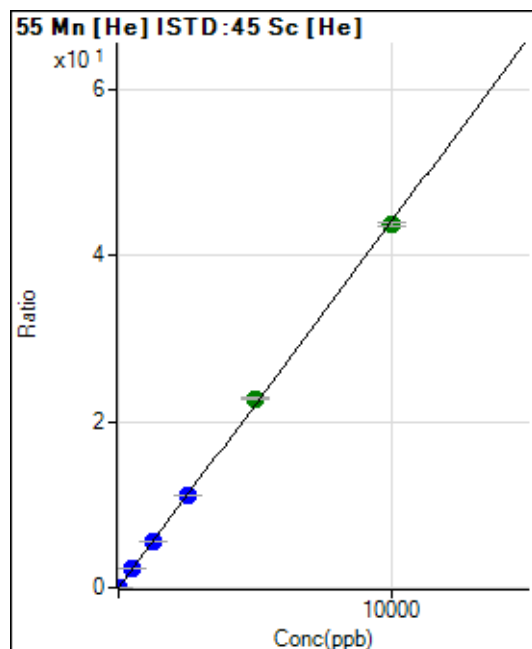
$$R = 0.9997$$

$$DL = 7.042$$

$$BEC = 11.41$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	87.78	0.0010	P	24.0
2	☐	1.000	0.941	456.68	0.0051	P	5.9
3	☐	500.000	517.763	205387.34	2.2819	P	1.6
4	☐	1250.000	1262.347	500824.65	5.5620	P	1.3
5	☐	2500.000	2522.440	998867.98	11.1131	P	0.3
6	☐	5000.000	5171.271	2071296.71	22.7819	A	1.2
7	☐	10000.000	9906.323	4020927.93	43.6412	A	1.0
8	☐			5615.59	0.0625	P	3.5

$$y = 0.0044 * x + 9.9556E-004$$

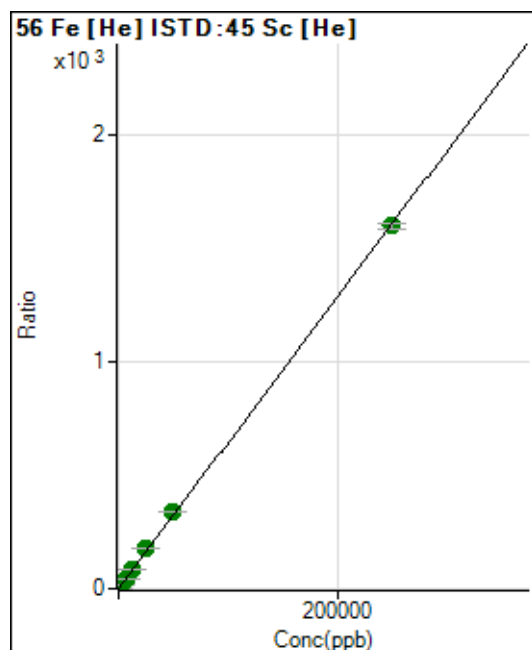
$$R = 0.9998$$

$$DL = 0.163$$

$$BEC = 0.226$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2400.24	0.0272	P	2.9
2	☐	50.000	47.408	29465.87	0.3319	P	1.1
3	☐	2500.000	2786.726	1614688.45	17.9397	A	1.9
4	☐	6250.000	6767.733	3919448.29	43.5289	A	1.6
5	☐	12500.000	13461.901	7780059.43	86.5578	A	0.7
6	☐	25000.000	27562.104	16107939.36	177.1914	A	2.2
7	☐	50000.000	52770.371	31254686.81	339.2256	A	1.1
8	☐	250000.00	249125.81	143966804.1	1,601.362	A	1.7

$$y = 0.0064 * x + 0.0272$$

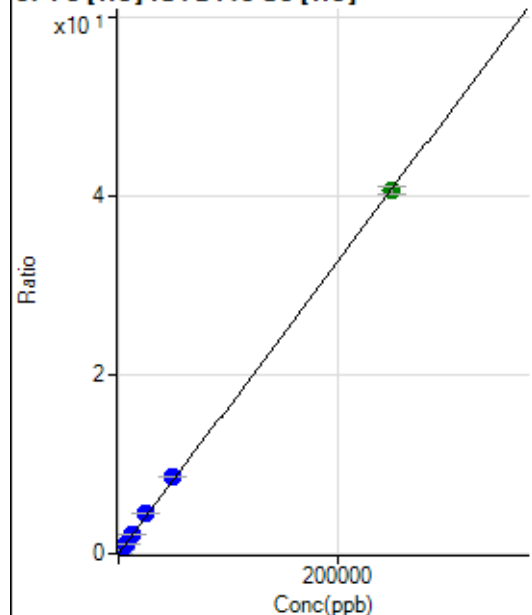
$$R = 0.9999$$

$$DL = 0.3684$$

$$BEC = 4.225$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	153.71	0.0017	P	7.1
2	☐	50.000	49.810	875.97	0.0099	P	8.0
3	☐	2500.000	2748.325	40501.96	0.4500	P	2.3
4	☐	6250.000	6669.047	98106.93	1.0895	P	1.0
5	☐	12500.000	13397.373	196574.72	2.1870	P	0.2
6	☐	25000.000	27288.502	404858.00	4.4528	P	0.9
7	☐	50000.000	53078.086	797819.99	8.6594	P	1.4
8	☐	250000.00	249097.70	3652746.26	40.6325	A	2.1

$$y = 1.6311\text{E-}004 * x + 0.0017$$

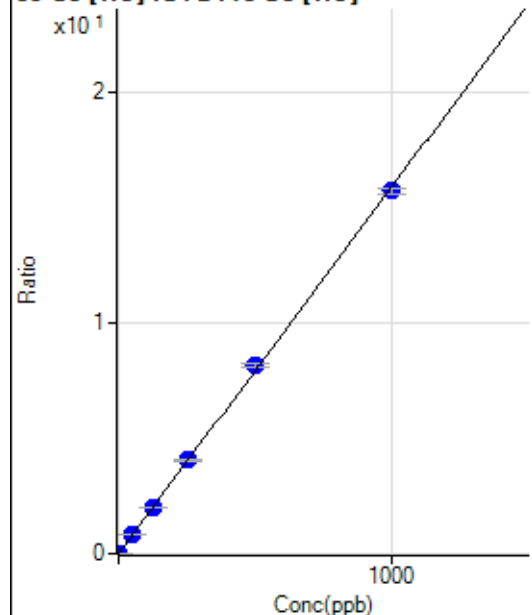
R = 0.9999

DL = 2.259

BEC = 10.66

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	51.11	0.0006	P	26.4
2	☐	1.000	0.897	1313.41	0.0148	P	5.8
3	☐	50.000	52.142	74426.57	0.8269	P	2.3
4	☐	125.000	127.207	181582.12	2.0166	P	1.1
5	☐	250.000	255.084	363420.14	4.0432	P	0.5
6	☐	500.000	516.139	743694.36	8.1805	P	1.8
7	☐	1000.000	990.277	1445983.36	15.6947	P	1.6
8	☐			3169.28	0.0353	P	4.4

$$y = 0.0158 * x + 5.7772\text{E-}004$$

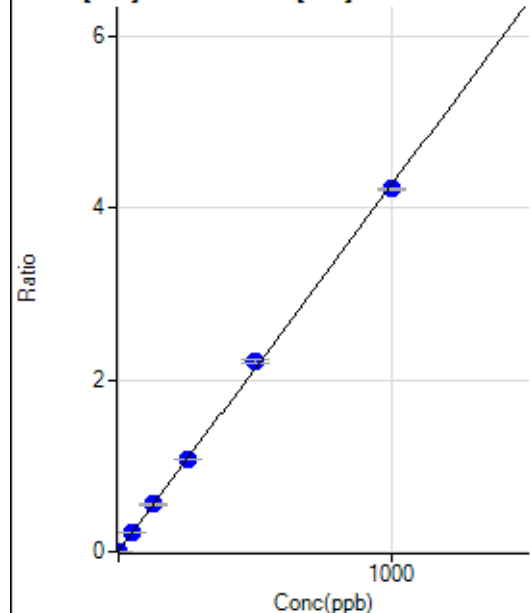
R = 0.9998

DL = 0.0289

BEC = 0.03645

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	195.56	0.0022	P	14.3
2	☐	1.000	0.788	494.46	0.0056	P	12.6
3	☐	50.000	52.228	20263.41	0.2252	P	2.4
4	☐	125.000	128.067	49428.95	0.5489	P	0.8
5	☐	250.000	253.616	97505.53	1.0848	P	0.2
6	☐	500.000	518.416	201370.25	2.2151	P	2.2
7	☐	1000.000	989.393	389338.36	4.2256	P	0.8
8	☐			5301.04	0.0590	P	6.6

$$y = 0.0043 * x + 0.0022$$

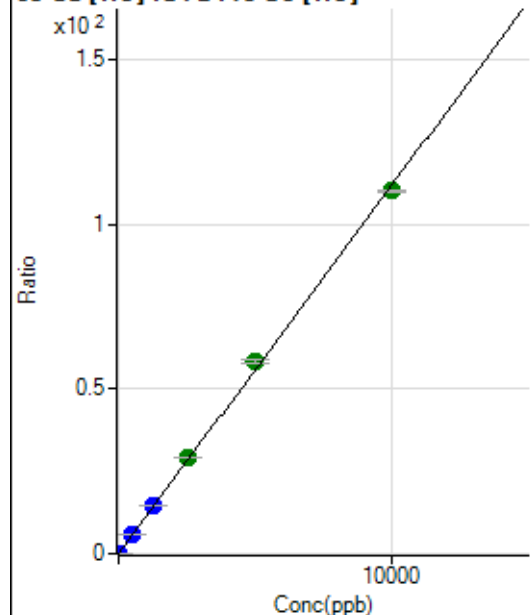
$$R = 0.9997$$

$$DL = 0.2214$$

$$BEC = 0.5174$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	484.72	0.0055	P	2.8
2	☐	2.000	1.708	2183.63	0.0246	P	3.9
3	☐	500.000	527.649	531895.76	5.9095	P	1.5
4	☐	1250.000	1292.755	1303009.40	14.4704	P	1.0
5	☐	2500.000	2602.419	2617806.78	29.1246	A	0.2
6	☐	5000.000	5217.459	5307778.95	58.3849	A	2.4
7	☐	10000.000	9858.939	10164833.55	110.3196	A	0.4
8	☐			10959.86	0.1219	P	1.2

$$y = 0.0112 * x + 0.0055$$

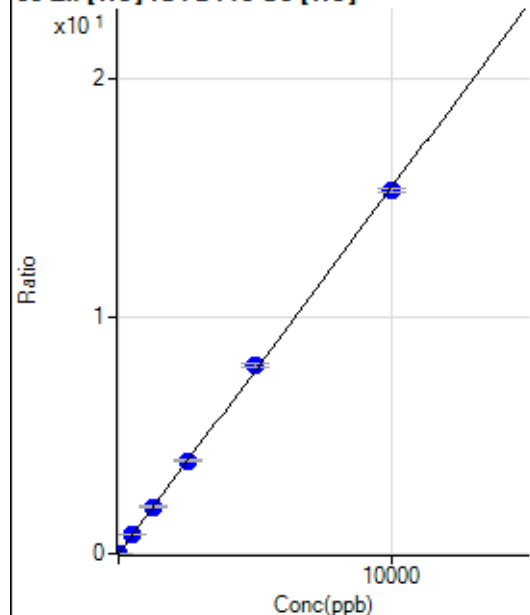
$$R = 0.9996$$

$$DL = 0.04141$$

$$BEC = 0.4902$$

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	63.33	0.0007	P	19.1
2	☐	2.000	1.814	312.23	0.0035	P	20.8
3	☐	500.000	525.490	73025.90	0.8113	P	1.1
4	☐	1250.000	1281.098	177999.98	1.9768	P	1.4
5	☐	2500.000	2542.125	352529.91	3.9220	P	0.6
6	☐	5000.000	5152.127	722578.14	7.9480	P	1.7
7	☐	10000.000	9908.244	1408228.42	15.2844	P	1.2
8	☐			5527.80	0.0615	P	3.0

$$y = 0.0015 * x + 7.1737E-004$$

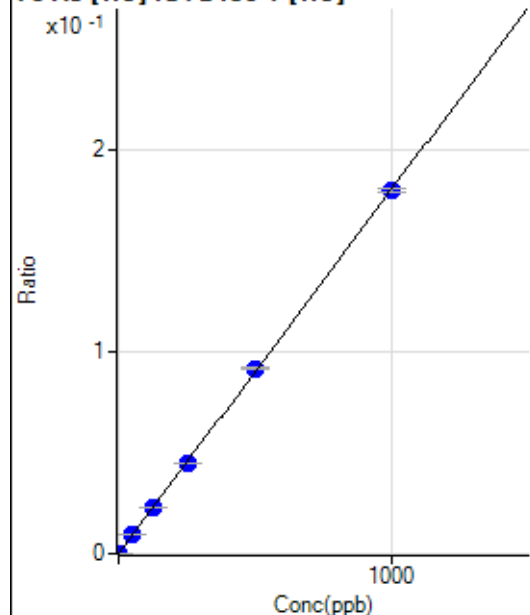
$$R = 0.9998$$

$$DL = 0.2665$$

$$BEC = 0.4651$$

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	8.00	0.0000	P	49.2
2	☐	1.000	0.819	92.34	0.0002	P	8.8
3	☐	50.000	51.512	5396.25	0.0093	P	2.4
4	☐	125.000	125.261	12991.62	0.0226	P	1.9
5	☐	250.000	247.478	25894.58	0.0446	P	0.2
6	☐	500.000	508.765	53838.64	0.0917	P	0.6
7	☐	1000.000	996.140	106354.89	0.1795	P	1.1
8	☐			62.68	0.0001	P	20.1

$$y = 1.8021E-004 * x + 1.3995E-005$$

$$R = 0.9999$$

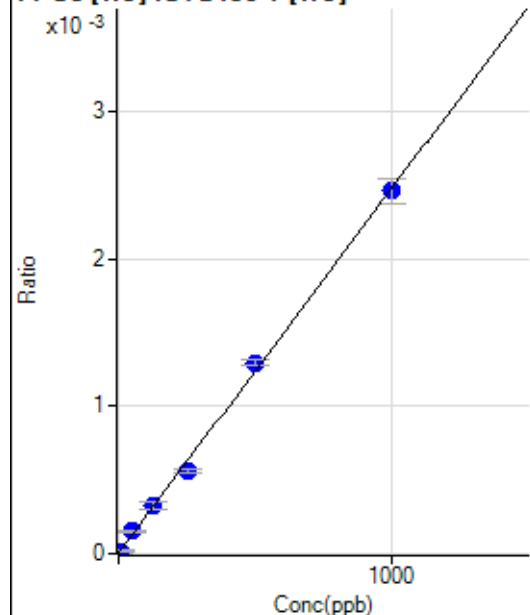
$$DL = 0.1147$$

$$BEC = 0.07766$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.461	10.00	0.0000	P	32.3
3	☐	50.000	60.280	88.89	0.0002	P	4.6
4	☐	125.000	129.776	186.67	0.0003	P	13.5
5	☐	250.000	224.403	324.45	0.0006	P	4.9
6	☐	500.000	522.462	761.14	0.0013	P	3.4
7	☐	1000.000	994.055	1460.09	0.0025	P	6.6
8	☐			3.33	0.0000	P	1.9

$$y = 2.4736\text{E-}006 * x + 3.9534\text{E-}006$$

$$R = 0.9992$$

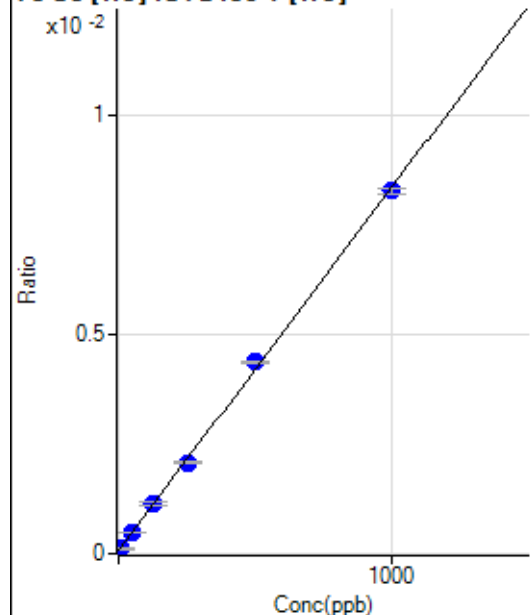
$$DL = 4.154$$

$$BEC = 1.598$$

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	40.00	0.0001	P	9.1
2	☐	5.000	5.096	64.34	0.0001	P	9.6
3	☐	50.000	50.287	282.36	0.0005	P	2.6
4	☐	125.000	130.491	661.08	0.0012	P	6.7
5	☐	250.000	242.989	1207.84	0.0021	P	2.2
6	☐	500.000	519.651	2565.83	0.0044	P	1.0
7	☐	1000.000	991.226	4900.02	0.0083	P	1.3
8	☐			44.00	0.0001	P	23.9

$$y = 8.2730\text{E-}006 * x + 7.0444\text{E-}005$$

$$R = 0.9997$$

$$DL = 2.313$$

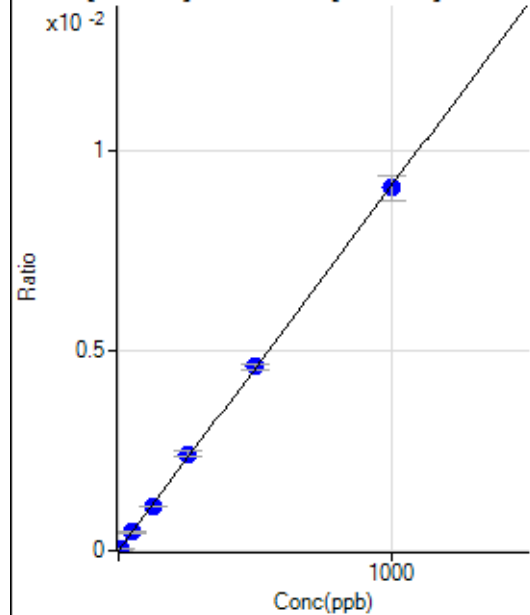
$$BEC = 8.515$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2869.91		P	9.1
2	☐			3030.12		P	0.8
3	☐			2990.09		P	5.5
4	☐			3033.47		P	4.1
5	☐			2863.24		P	7.1
6	☐			3000.08		P	5.7
7	☐			3260.41		P	4.1
8	☐			3273.76		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.04	0.0000	P	145.
2	☐	5.000	4.556	226.51	0.0000	P	4.4
3	☐	50.000	50.835	2302.47	0.0005	P	7.5
4	☐	125.000	122.000	5405.61	0.0011	P	1.7
5	☐	250.000	264.190	11345.11	0.0024	P	6.2
6	☐	500.000	504.673	22900.83	0.0046	P	3.2
7	☐	1000.000	994.452	44234.84	0.0091	P	7.1
8	☐			43.41	0.0000	P	62.6

$$y = 9.1018E-006 * x + 4.9123E-006$$

$$R = 0.9999$$

$$DL = 2.348$$

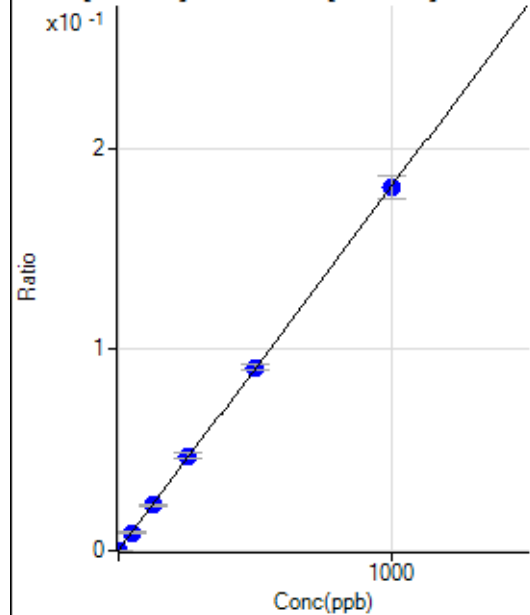
$$BEC = 0.5397$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			353.34		P	8.1
2	☐			353.34		P	8.2
3	☐			364.45		P	9.8
4	☐			410.01		P	7.2
5	☐			351.12		P	6.9
6	☐			390.01		P	1.7
7	☐			370.01		P	5.0
8	☐			372.23		P	7.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	591.70	0.0001	P	8.5
2	☐	1.000	0.826	1330.66	0.0003	P	1.2
3	☐	50.000	49.157	44396.14	0.0090	P	1.6
4	☐	125.000	123.988	109149.40	0.0225	P	2.6
5	☐	250.000	260.636	222292.97	0.0472	P	6.5
6	☐	500.000	502.535	452888.66	0.0909	P	2.8
7	☐	1000.000	996.242	880136.01	0.1801	P	6.4
8	☐			5384.54	0.0012	P	5.1

$$y = 1.8069E-004 * x + 1.2323E-004$$

$$R = 0.9999$$

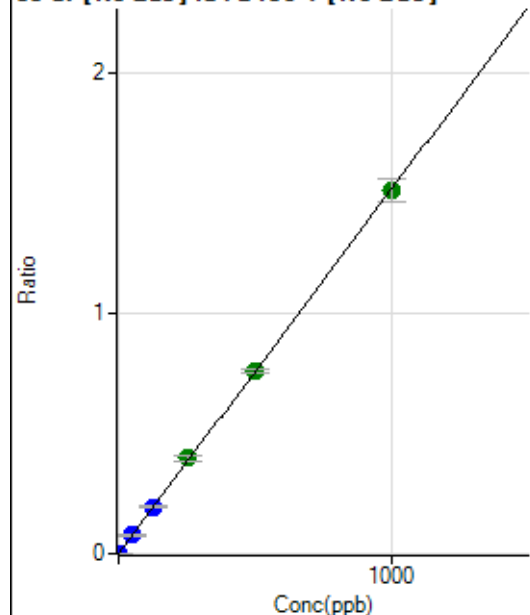
$$DL = 0.1734$$

$$BEC = 0.682$$

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	94.45	0.0000	P	24.2
2	☐	1.000	0.822	6170.98	0.0013	P	3.3
3	☐	50.000	50.236	374942.79	0.0761	P	3.6
4	☐	125.000	127.621	936352.94	0.1933	P	2.9
5	☐	250.000	262.257	1869284.22	0.3971	A	7.0
6	☐	500.000	502.412	3789362.76	0.7608	A	1.7
7	☐	1000.000	995.391	7364326.21	1.5072	A	6.3
8	☐			42158.76	0.0092	P	5.9

$$y = 0.0015 * x + 1.9604E-005$$

$$R = 0.9999$$

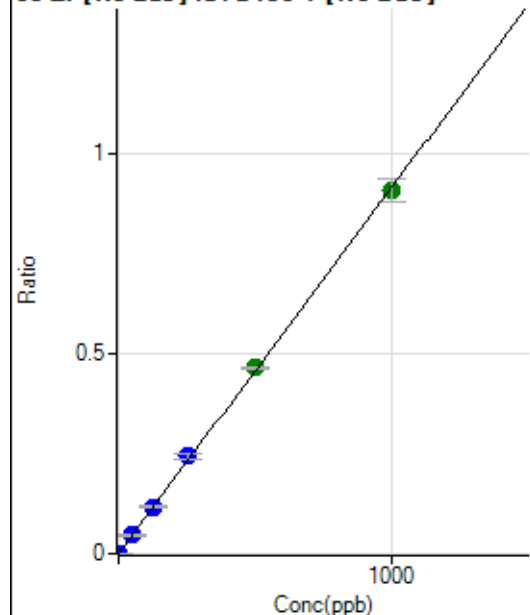
$$DL = 0.00941$$

$$BEC = 0.01295$$

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	197.23	0.0000	P	26.7
2	☐	1.000	0.814	3833.95	0.0008	P	2.4
3	☐	50.000	49.906	225013.94	0.0457	P	3.3
4	☐	125.000	127.209	563531.27	0.1163	P	3.2
5	☐	250.000	266.570	1147379.67	0.2437	P	6.4
6	☐	500.000	507.938	2312878.72	0.4643	A	1.6
7	☐	1000.000	991.617	4428628.35	0.9064	A	6.5
8	☐			2311.37	0.0005	P	15.6

$$y = 9.1406E-004 * x + 4.1110E-005$$

$$R = 0.9998$$

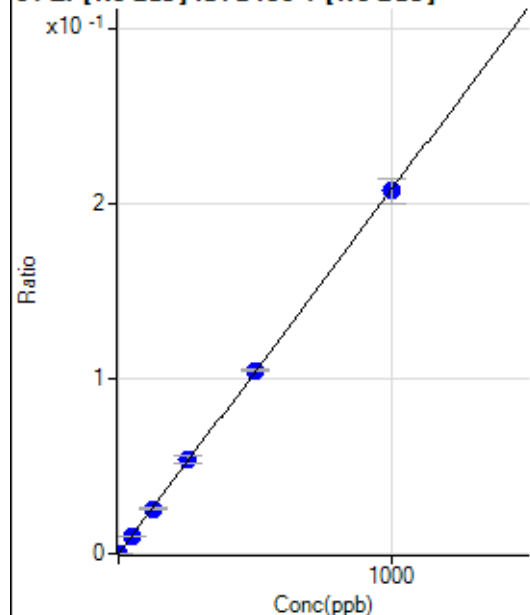
$$DL = 0.03602$$

$$BEC = 0.04498$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.34	0.0000	P	39.4
2	☐	1.000	0.801	872.28	0.0002	P	19.9
3	☐	50.000	48.578	49923.25	0.0101	P	4.3
4	☐	125.000	124.102	125310.11	0.0259	P	3.0
5	☐	250.000	258.468	253495.79	0.0539	P	7.0
6	☐	500.000	502.618	521633.69	0.1047	P	0.9
7	☐	1000.000	996.758	1014473.99	0.2076	P	6.6
8	☐			513.92	0.0001	P	8.4

$$y = 2.0831E-004 * x + 1.2182E-005$$

$$R = 0.9999$$

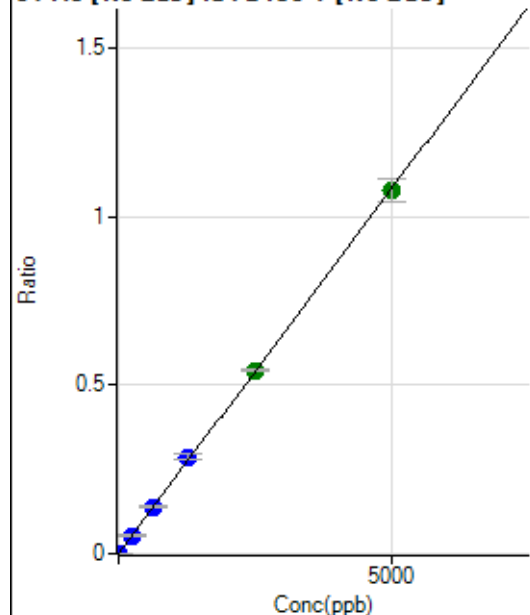
$$DL = 0.06919$$

$$BEC = 0.05848$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.44	0.0000	P	36.5
2	☐	5.000	4.241	4545.31	0.0009	P	4.2
3	☐	250.000	247.908	264177.65	0.0536	P	4.1
4	☐	625.000	638.066	668329.72	0.1380	P	3.9
5	☐	1250.000	1324.942	1348710.43	0.2865	P	6.4
6	☐	2500.000	2514.693	2708415.97	0.5437	A	1.3
7	☐	5000.000	4972.390	5252887.75	1.0751	A	6.3
8	☐			4103.49	0.0009	P	14.0

$$y = 2.1621E-004 * x + 1.4385E-005$$

$$R = 0.9999$$

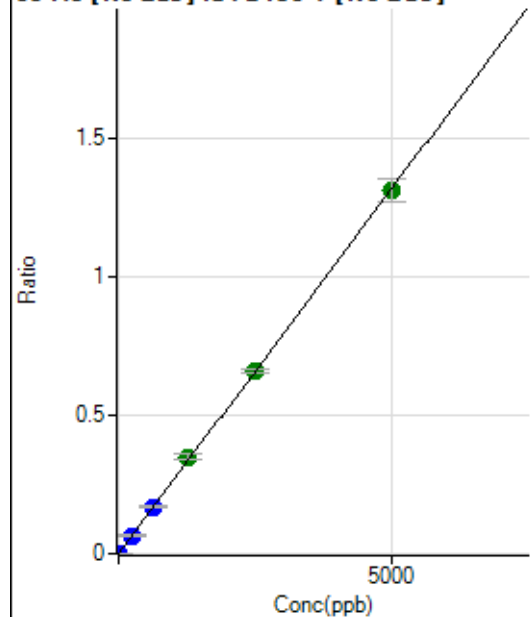
$$DL = 0.07275$$

$$BEC = 0.06653$$

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	8.33	0.0000	P	98.7
2	☐	5.000	4.027	5178.89	0.0011	P	1.9
3	☐	250.000	248.556	322200.68	0.0654	P	2.9
4	☐	625.000	635.551	809721.59	0.1672	P	3.8
5	☐	1250.000	1327.939	1644822.39	0.3493	A	5.5
6	☐	2500.000	2511.401	3289990.03	0.6605	A	1.8
7	☐	5000.000	4973.569	6391469.37	1.3081	A	6.2
8	☐			5970.89	0.0013	P	7.7

$$y = 2.6300E-004 * x + 1.7186E-006$$

$$R = 0.9999$$

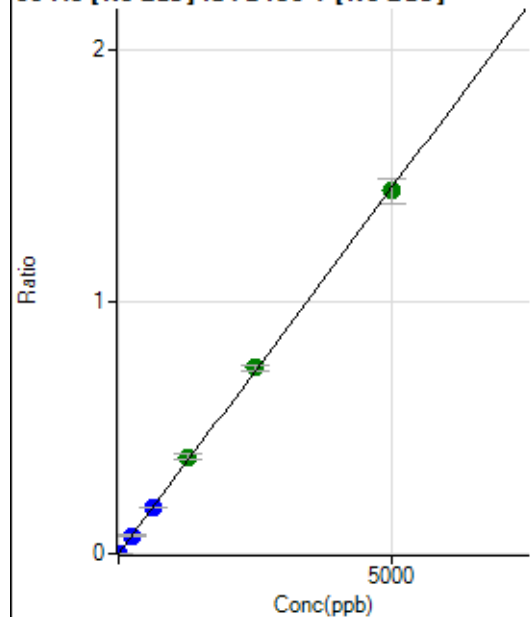
$$DL = 0.01934$$

$$BEC = 0.006535$$

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	36.11	0.0000	P	48.6
2	☐	5.000	4.224	6029.22	0.0012	P	0.3
3	☐	250.000	247.789	354814.20	0.0720	P	3.4
4	☐	625.000	630.727	887713.10	0.1833	P	3.8
5	☐	1250.000	1318.874	1804357.53	0.3832	A	5.8
6	☐	2500.000	2538.469	3673205.90	0.7375	A	2.7
7	☐	5000.000	4962.942	7044198.16	1.4419	A	6.8
8	☐			6960.26	0.0015	P	11.7

$$y = 2.9053E-004 * x + 7.5192E-006$$

$$R = 0.9998$$

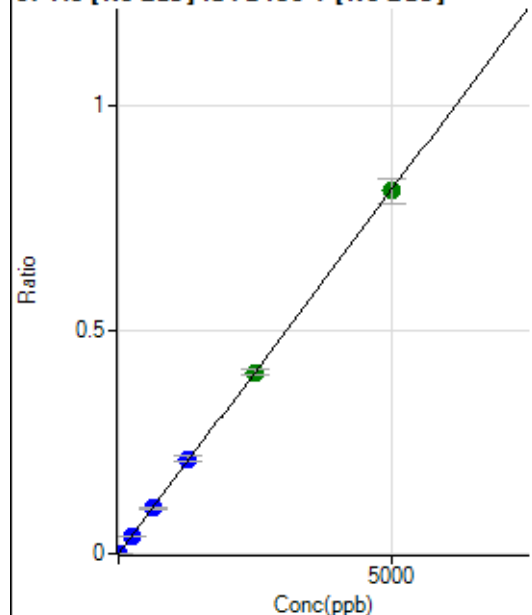
$$DL = 0.03771$$

$$BEC = 0.02588$$

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	99.1
2	☐	5.000	4.140	3294.92	0.0007	P	1.4
3	☐	250.000	243.286	194961.23	0.0396	P	2.2
4	☐	625.000	622.981	490583.00	0.1013	P	4.0
5	☐	1250.000	1303.159	997704.36	0.2119	P	5.4
6	☐	2500.000	2498.410	2022948.89	0.4062	A	2.5
7	☐	5000.000	4988.094	3961330.78	0.8109	A	6.8
8	☐			3764.49	0.0008	P	5.2

$$y = 1.6257\text{E-}004 * x + 1.7105\text{E-}006$$

$$R = 0.9999$$

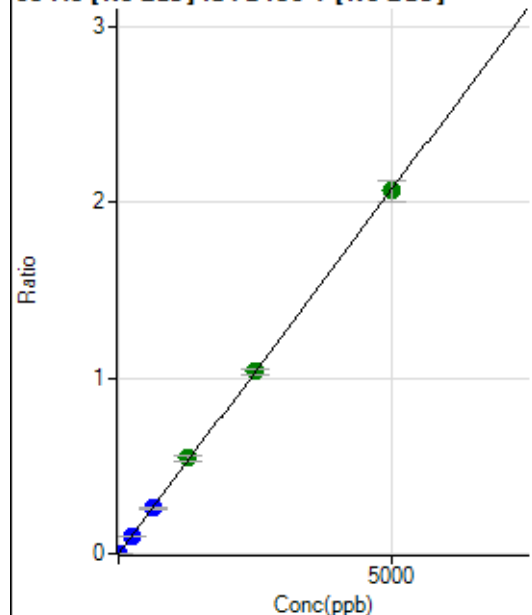
$$DL = 0.03129$$

$$BEC = 0.01052$$

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	5.56	0.0000	P	173.
2	☐	5.000	4.240	8589.00	0.0018	P	2.6
3	☐	250.000	246.446	503741.66	0.1022	P	2.1
4	☐	625.000	629.411	1264297.12	0.2610	P	3.7
5	☐	1250.000	1313.041	2563182.33	0.5445	A	6.5
6	☐	2500.000	2499.612	5162437.48	1.0365	A	3.0
7	☐	5000.000	4984.061	10098749.44	2.0667	A	6.1
8	☐			9261.68	0.0020	P	10.7

$$y = 4.1466\text{E-}004 * x + 1.1301\text{E-}006$$

$$R = 0.9999$$

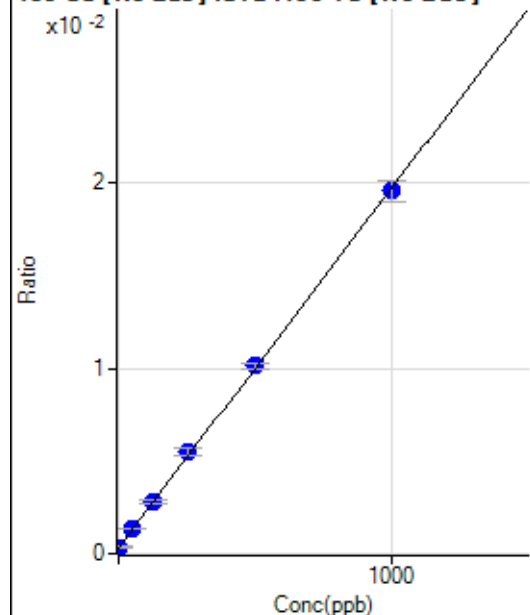
$$DL = 0.01416$$

$$BEC = 0.002725$$

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	1022.29	0.0003	P	8.5
2	☐	1.000	1.208	1130.63	0.0003	P	9.8
3	☐	50.000	51.372	4267.45	0.0013	P	3.1
4	☐	125.000	126.525	8855.86	0.0028	P	5.8
5	☐	250.000	266.101	17116.57	0.0055	P	6.5
6	☐	500.000	505.696	33627.56	0.0101	P	3.3
7	☐	1000.000	992.867	64534.78	0.0196	P	5.7
8	☐			1036.18	0.0003	P	5.5

$$y = 1.9373\text{E-}005 * x + 3.2546\text{E-}004$$

$$R = 0.9998$$

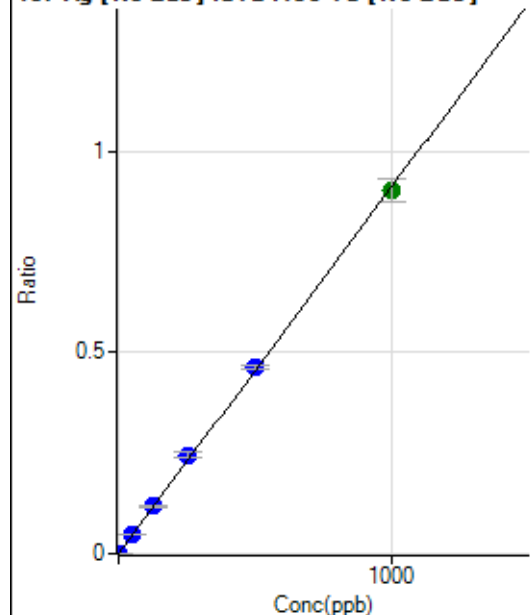
$$DL = 4.284$$

$$BEC = 16.8$$

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	32.8
2	☐	1.000	0.893	2655.88	0.0008	P	9.7
3	☐	50.000	51.123	150380.44	0.0466	P	3.1
4	☐	125.000	129.509	376101.19	0.1180	P	4.2
5	☐	250.000	269.348	766152.83	0.2453	P	6.6
6	☐	500.000	509.800	1542885.51	0.4644	P	1.9
7	☐	1000.000	989.643	2973336.33	0.9014	A	6.4
8	☐			2375.27	0.0008	P	7.9

$$y = 9.1084\text{E-}004 * x + 9.7446\text{E-}006$$

$$R = 0.9997$$

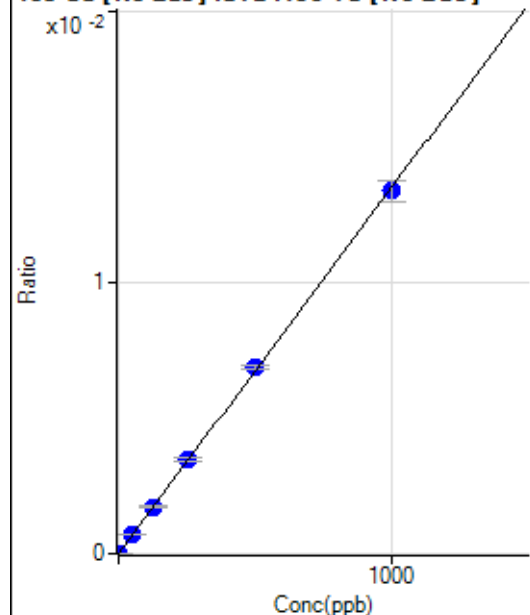
$$DL = 0.01054$$

$$BEC = 0.0107$$

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	4.17	0.0000	P	100.
2	☐	1.000	1.368	63.89	0.0000	P	32.2
3	☐	50.000	51.667	2258.55	0.0007	P	3.1
4	☐	125.000	127.913	5515.06	0.0017	P	4.9
5	☐	250.000	259.265	10953.06	0.0035	P	4.4
6	☐	500.000	511.537	22972.01	0.0069	P	1.9
7	☐	1000.000	991.467	44209.55	0.0134	P	5.7
8	☐			79.17	0.0000	P	21.0

$$y = 1.3513\text{E-}005 * x + 1.3224\text{E-}006$$

$$R = 0.9999$$

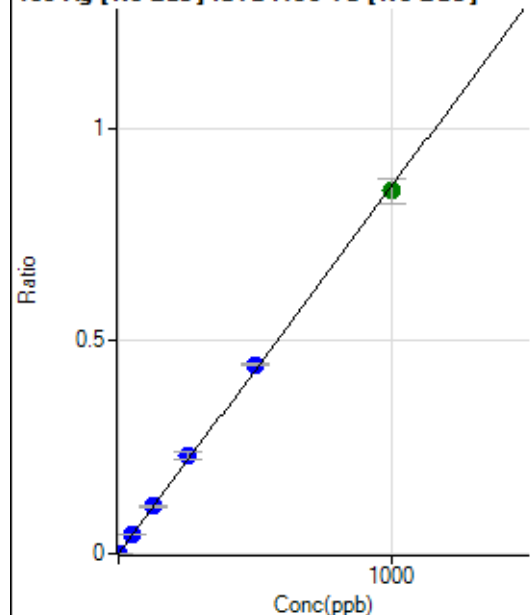
$$DL = 0.2961$$

$$BEC = 0.09786$$

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	33.34	0.0000	P	42.6
2	☐	1.000	0.792	2241.91	0.0007	P	9.3
3	☐	50.000	50.844	141699.99	0.0439	P	4.1
4	☐	125.000	129.189	355506.92	0.1115	P	4.1
5	☐	250.000	266.772	719037.52	0.2302	P	6.5
6	☐	500.000	514.616	1475852.20	0.4442	P	1.3
7	☐	1000.000	987.934	2811917.29	0.8527	A	7.1
8	☐			1983.53	0.0006	P	11.8

$$y = 8.6305\text{E-}004 * x + 1.0569\text{E-}005$$

$$R = 0.9997$$

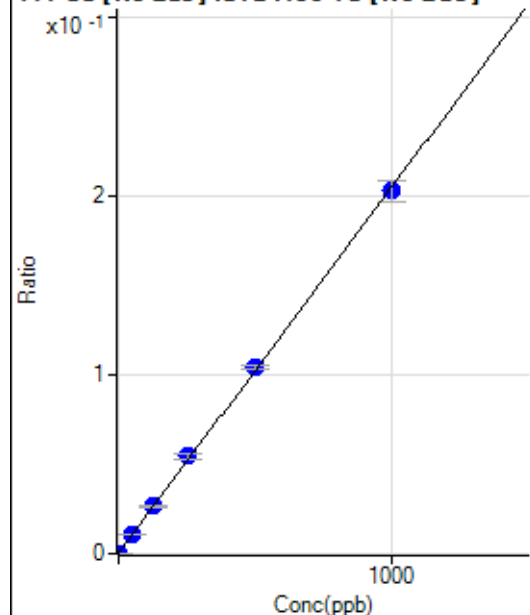
$$DL = 0.01565$$

$$BEC = 0.01225$$

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	723.85	0.0002	P	7.8
2	☐	1.000	0.975	1391.22	0.0004	P	7.1
3	☐	50.000	50.574	34094.95	0.0106	P	4.0
4	☐	125.000	127.820	83988.88	0.0263	P	3.4
5	☐	250.000	266.366	170656.68	0.0546	P	6.1
6	☐	500.000	509.855	346782.41	0.1044	P	2.4
7	☐	1000.000	990.600	668264.23	0.2026	P	6.2
8	☐			1086.18	0.0003	P	8.5

$$y = 2.0427\text{E-}004 * x + 2.3043\text{E-}004$$

$$R = 0.9998$$

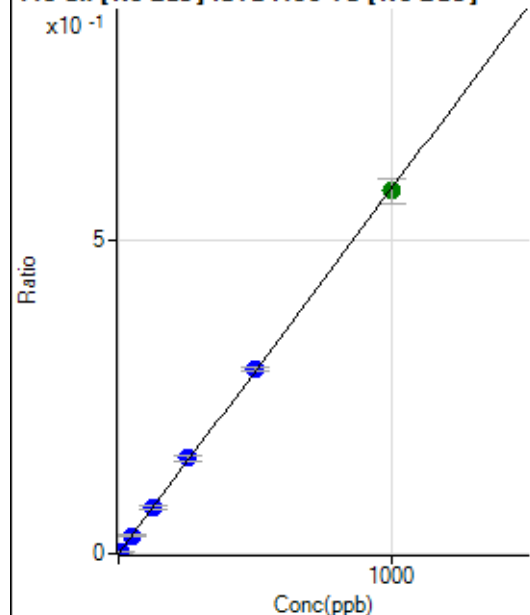
$$DL = 0.2649$$

$$BEC = 1.128$$

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	141.67	0.0000	P	22.2
2	☐	5.000	4.178	8013.66	0.0025	P	4.0
3	☐	50.000	49.793	93821.00	0.0291	P	3.4
4	☐	125.000	125.516	233236.57	0.0732	P	5.6
5	☐	250.000	261.849	476739.95	0.1526	P	5.8
6	☐	500.000	506.263	980317.57	0.2950	P	1.8
7	☐	1000.000	993.856	1910007.68	0.5792	A	7.0
8	☐			1822.40	0.0006	P	3.0

$$y = 5.8269\text{E-}004 * x + 4.5117\text{E-}005$$

$$R = 0.9999$$

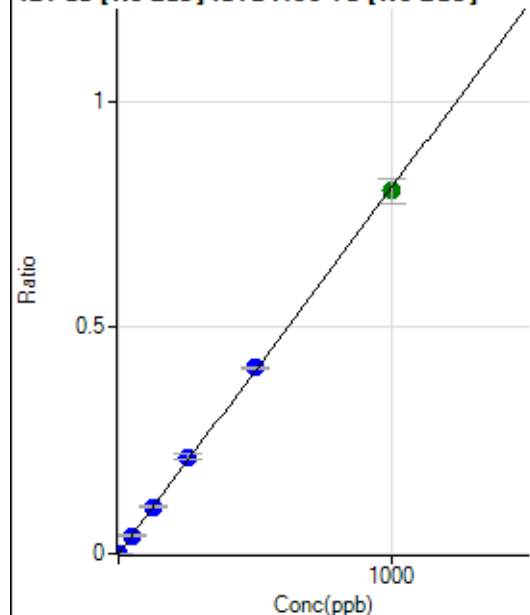
$$DL = 0.05159$$

$$BEC = 0.07743$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.44	0.0000	P	50.5
2	☐	2.000	1.631	4286.91	0.0013	P	3.3
3	☐	50.000	49.524	129229.33	0.0400	P	4.2
4	☐	125.000	126.751	326608.23	0.1024	P	4.1
5	☐	250.000	264.836	668495.12	0.2140	P	6.2
6	☐	500.000	509.098	1367227.31	0.4114	P	0.9
7	☐	1000.000	991.547	2642993.48	0.8013	A	6.8
8	☐			2772.58	0.0009	P	2.0

$$y = 8.0816\text{E-}004 * x + 6.2210\text{E-}006$$

$$R = 0.9998$$

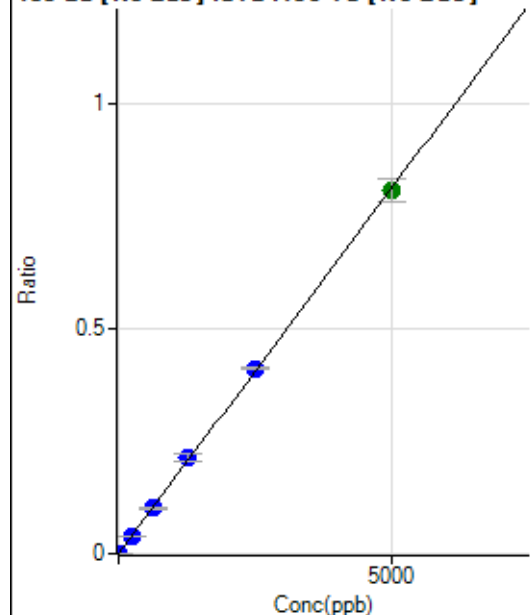
$$DL = 0.01165$$

$$BEC = 0.007698$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	46.6
2	☐	10.000	8.129	4298.02	0.0013	P	8.0
3	☐	250.000	245.120	128761.23	0.0399	P	3.3
4	☐	625.000	628.390	325985.46	0.1022	P	3.3
5	☐	1250.000	1317.923	669466.07	0.2144	P	6.7
6	☐	2500.000	2535.475	1370535.30	0.4124	P	1.0
7	☐	5000.000	4965.106	2664063.43	0.8077	A	6.5
8	☐			5609.64	0.0018	P	10.2

$$y = 1.6266\text{E-}004 * x + 8.8668\text{E-}006$$

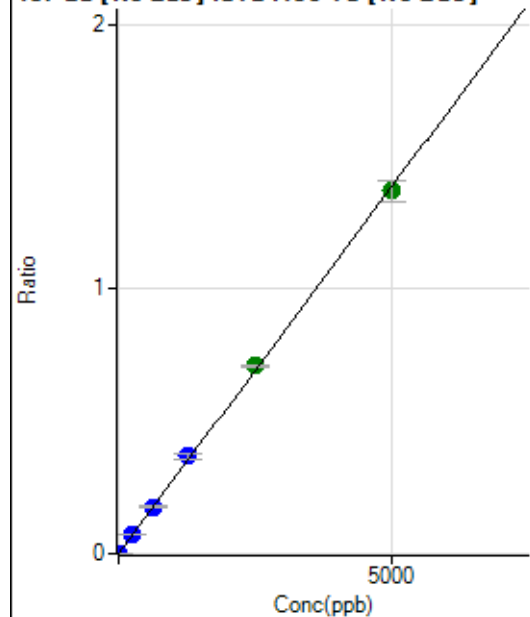
$$R = 0.9998$$

$$DL = 0.07623$$

$$BEC = 0.05451$$

Weight: <None>

Min Conc: 0

¹³⁷Ba [No Gas] ISTD : ¹⁵⁹Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	58.5
2	☐	10.000	8.300	7471.72	0.0023	P	2.7
3	☐	250.000	253.941	227095.43	0.0703	P	2.9
4	☐	625.000	637.333	562750.35	0.1765	P	3.8
5	☐	1250.000	1332.560	1152460.14	0.3690	P	6.3
6	☐	2500.000	2558.401	2354379.37	0.7085	A	1.2
7	☐	5000.000	4948.424	4520875.53	1.3703	A	5.8
8	☐			9284.01	0.0030	P	6.8

$$y = 2.7691E-004 * x + 1.3166E-005$$

$$R = 0.9997$$

$$DL = 0.08346$$

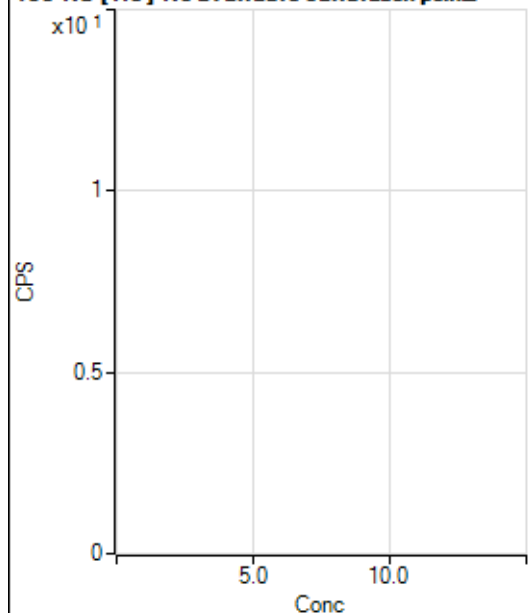
$$BEC = 0.04755$$

Weight: <None>

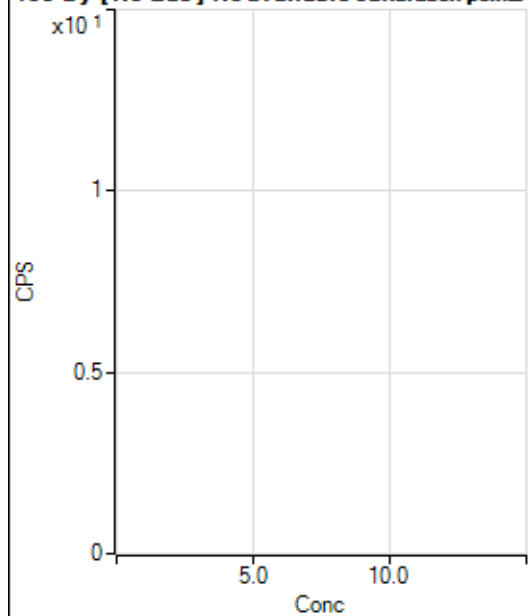
Min Conc: 0

¹⁵⁰Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11.11		P	69.3
2	☐			2.22		P	173.
3	☐			8.89		P	43.3
4	☐			20.00		P	57.7
5	☐			53.33		P	25.0
6	☐			77.78		P	21.6
7	☐			122.23		P	33.3
8	☐			20.00		P	66.7

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	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			2.22		P	173.
6	☐			5.56		P	34.7
7	☐			11.11		P	45.8
8	☐			3.33		P	173.

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐			19.44		P	65.5
3	☐			27.78		P	45.8
4	☐			19.44		P	89.2
5	☐			30.56		P	31.5
6	☐			41.67		P	20.0
7	☐			75.00		P	11.1
8	☐			138.89		P	40.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			5.56		P	91.6
3	☐			1.11		P	173.
4	☐			10.00		P	33.3
5	☐			16.67		P	NaN
6	☐			11.11		P	62.5
7	☐			21.11		P	36.5
8	☐			82.22		P	16.9

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	69.3
2	☐			36.11		P	48.0
3	☐			19.45		P	24.7
4	☐			47.22		P	36.7
5	☐			52.78		P	50.8
6	☐			97.23		P	13.1
7	☐			69.45		P	6.9
8	☐			175.01		P	14.3

160 Gd [He] No available calibration points

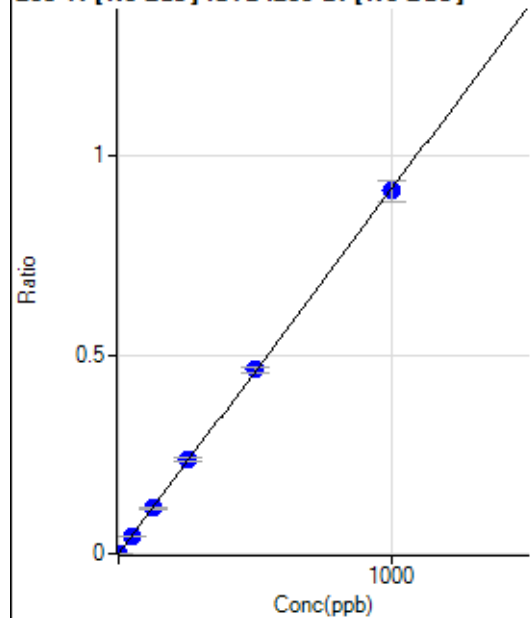
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	62.5
2	☐			13.33		P	43.3
3	☐			7.78		P	65.5
4	☐			11.11		P	69.3
5	☐			17.78		P	47.2
6	☐			23.33		P	37.8
7	☐			22.22		P	37.8
8	☐			93.33		P	15.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	66.1
2	☐			22.22		P	78.1
3	☐			30.56		P	56.8
4	☐			30.55		P	15.7
5	☐			27.78		P	75.5
6	☐			22.22		P	43.3
7	☐			36.11		P	13.3
8	☐			41.67		P	60.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			15.56		P	53.9
3	☐			10.00		P	57.8
4	☐			13.33		P	66.1
5	☐			4.44		P	43.4
6	☐			14.44		P	70.5
7	☐			14.44		P	13.4
8	☐			15.56		P	12.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	45.8
2	☐	1.000	0.874	1358.44	0.0008	P	3.5
3	☐	50.000	48.702	73740.20	0.0446	P	3.7
4	☐	125.000	124.765	187828.99	0.1143	P	3.7
5	☐	250.000	259.658	385887.87	0.2378	P	4.7
6	☐	500.000	504.802	793961.30	0.4624	P	2.7
7	☐	1000.000	995.279	1543583.65	0.9116	P	5.9
8	☐			1402.90	0.0009	P	12.7

$$y = 9.1588\text{E-}004 * x + 1.7066\text{E-}005$$

$$R = 0.9999$$

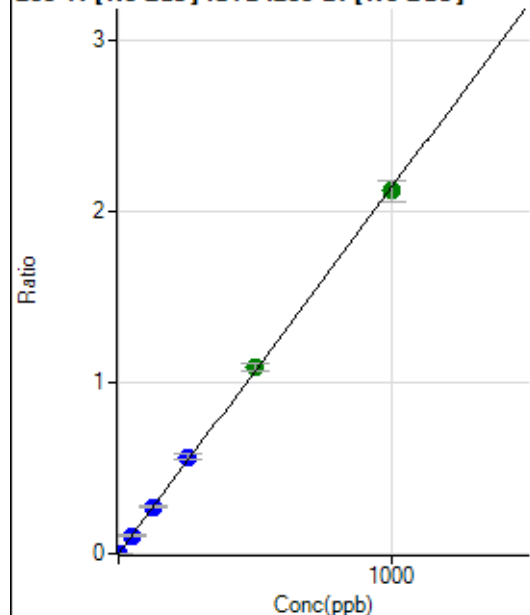
$$DL = 0.02559$$

$$BEC = 0.01863$$

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	13.89	0.0000	P	125.
2	☐	1.000	0.828	2950.43	0.0018	P	4.3
3	☐	50.000	49.891	176026.27	0.1065	P	4.1
4	☐	125.000	126.677	444559.59	0.2705	P	3.3
5	☐	250.000	264.893	917113.60	0.5656	P	6.4
6	☐	500.000	509.957	1869508.57	1.0888	A	3.7
7	☐	1000.000	991.094	3583152.16	2.1161	A	5.9
8	☐			3250.50	0.0021	P	9.1

$$y = 0.0021 * x + 8.5278E-006$$

$$R = 0.9998$$

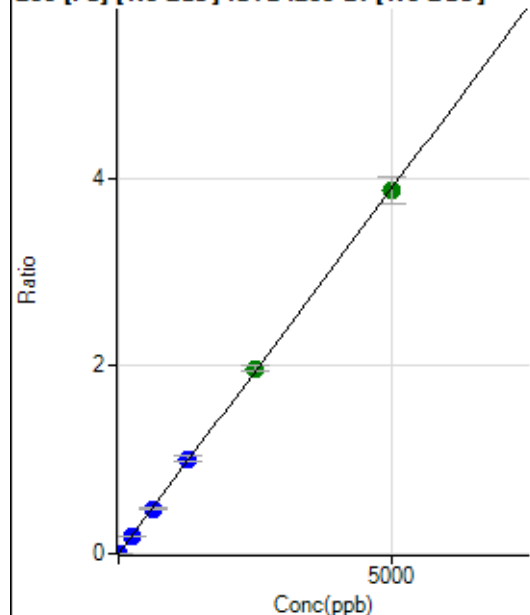
$$DL = 0.01498$$

$$BEC = 0.003994$$

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	127.78	0.0001	P	11.5
2	☐	1.000	0.801	1166.74	0.0007	P	11.7
3	☐	250.000	242.621	311824.30	0.1887	P	2.9
4	☐	625.000	617.993	789750.61	0.4804	P	2.6
5	☐	1250.000	1293.758	1630826.90	1.0057	P	6.4
6	☐	2500.000	2539.711	3390457.77	1.9742	A	2.5
7	☐	5000.000	4970.450	6539039.67	3.8636	A	7.4
8	☐			7567.15	0.0049	P	5.5

$$y = 7.7730E-004 * x + 7.8528E-005$$

$$R = 0.9999$$

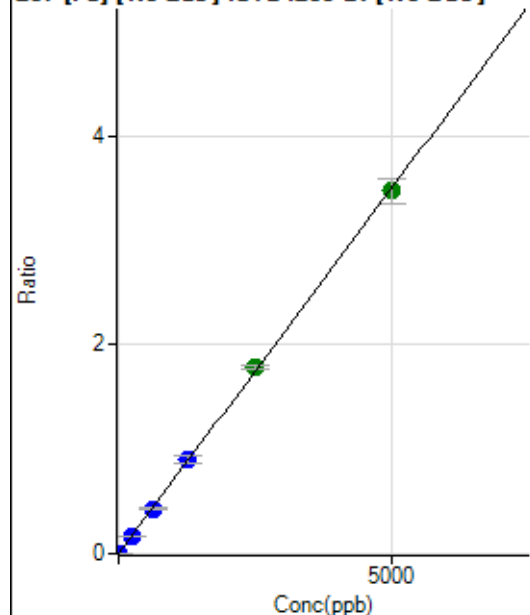
$$DL = 0.03494$$

$$BEC = 0.101$$

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	133.34	0.0001	P	12.4
2	☐	1.000	0.740	996.36	0.0006	P	5.6
3	☐	250.000	245.018	283506.89	0.1715	P	3.3
4	☐	625.000	617.342	710230.93	0.4321	P	3.0
5	☐	1250.000	1291.860	1466040.65	0.9041	P	6.5
6	☐	2500.000	2546.589	3060610.43	1.7822	A	1.9
7	☐	5000.000	4967.447	5884776.05	3.4764	A	6.8
8	☐			7068.71	0.0046	P	8.4

$$y = 6.9982E-004 * x + 8.1930E-005$$

$$R = 0.9999$$

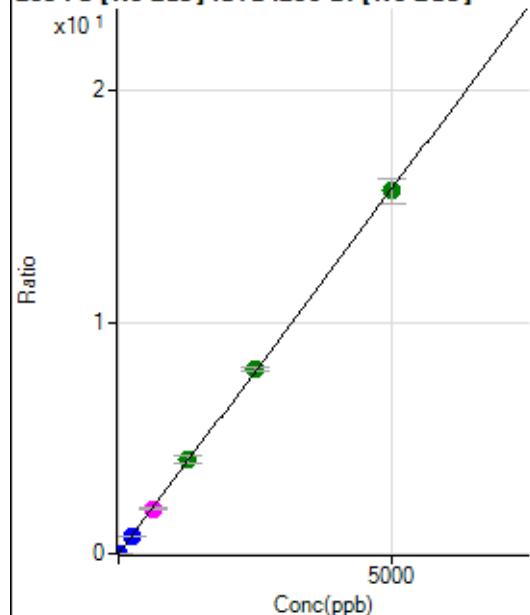
$$DL = 0.04343$$

$$BEC = 0.1171$$

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	555.57	0.0003	P	9.4
2	☐	1.000	0.769	4585.59	0.0028	P	5.1
3	☐	250.000	243.854	1268455.29	0.7675	P	3.4
4	☐	625.000	616.612	3189338.77	1.9403	M	2.8
5	☐	1250.000	1295.105	6606356.31	4.0749	A	7.0
6	☐	2500.000	2525.272	13644104.82	7.9452	A	2.2
7	☐	5000.000	4977.443	26509127.15	15.6601	A	6.8
8	☐			31102.14	0.0201	P	7.8

$$y = 0.0031 * x + 3.4138E-004$$

$$R = 0.9999$$

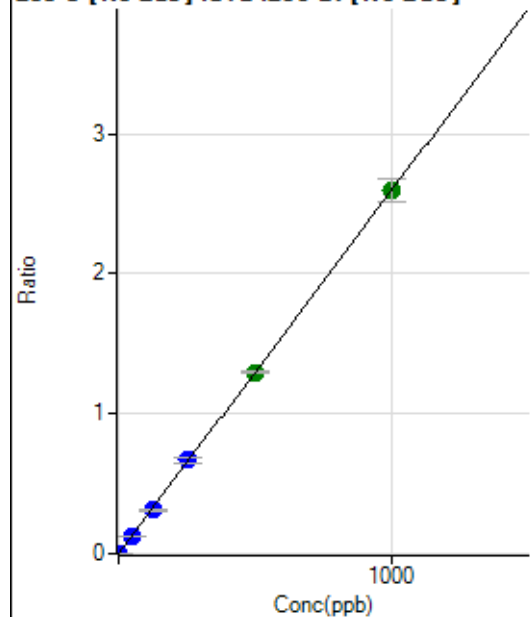
$$DL = 0.03055$$

$$BEC = 0.1085$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.754	3267.20	0.0020	P	8.7
3	☐	50.000	48.423	207647.89	0.1257	P	3.6
4	☐	125.000	121.334	517386.62	0.3148	P	4.2
5	☐	250.000	256.918	1081307.51	0.6667	P	5.7
6	☐	500.000	499.517	2226319.95	1.2962	A	1.1
7	☐	1000.000	999.049	4389313.16	2.5924	A	6.3
8	☐			1325.12	0.0009	P	12.8

$$y = 0.0026 * x + 6.8201E-006$$

$$R = 1.0000$$

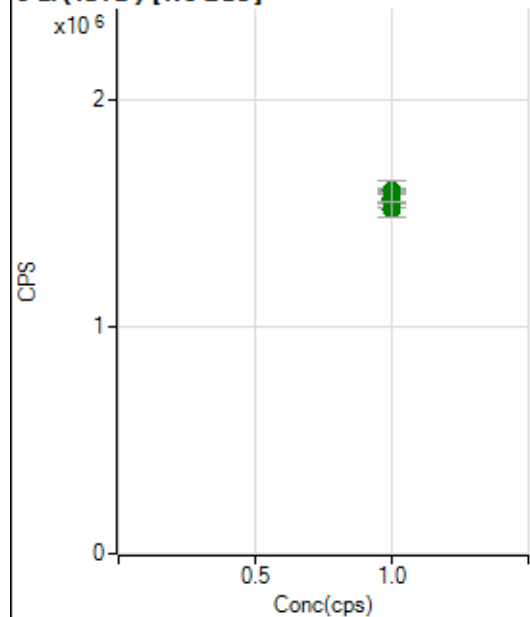
$$DL = 0.006829$$

$$BEC = 0.002628$$

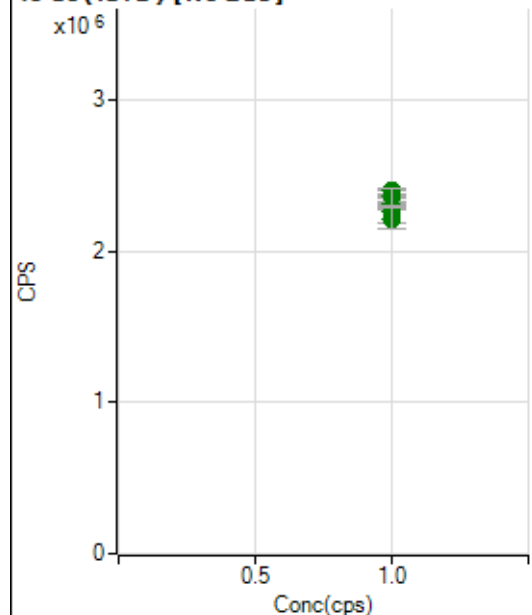
Weight: <None>

Min Conc: 0

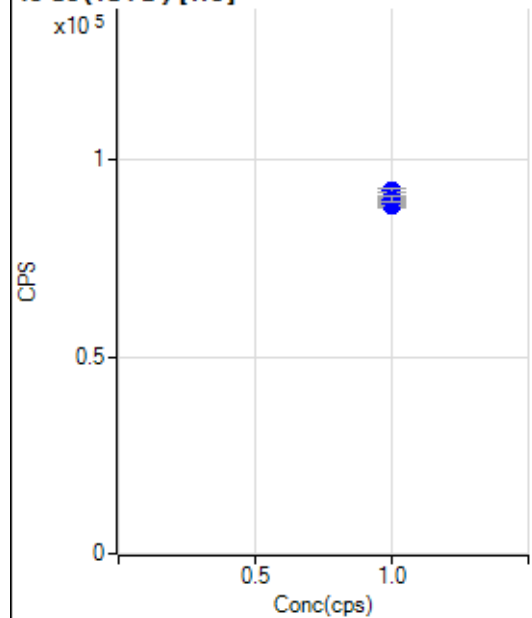
6 Li (ISTD) [No Gas]



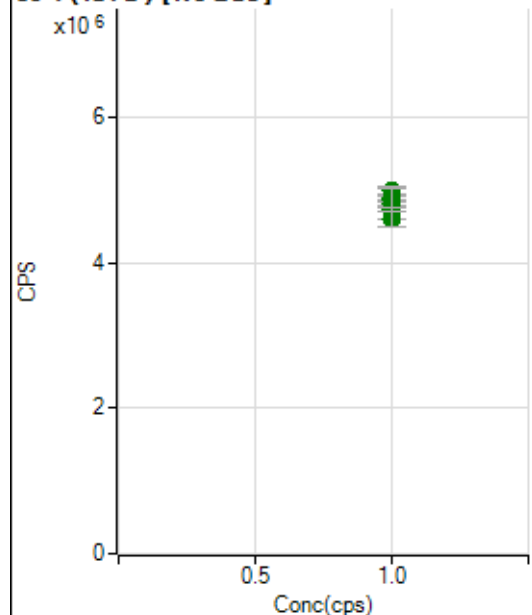
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1525858.50		A	0.2
2	☐	1.000		1566229.86		A	1.9
3	☐	1.000		1598510.95		A	1.2
4	☐	1.000		1569229.77		A	3.4
5	☐	1.000		1562463.43		A	5.1
6	☐	1.000		1598026.64		A	1.3
7	☐	1.000		1598552.76		A	5.5
8	☐	1.000		1517541.68		A	4.7

45 Sc (ISTD) [No Gas]

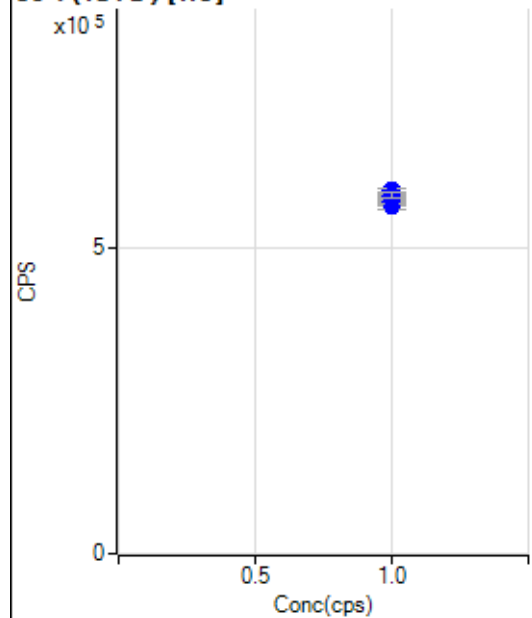
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2290916.70		A	1.5
2	☐	1.000		2324419.53		A	3.3
3	☐	1.000		2358024.96		A	3.7
4	☐	1.000		2312283.71		A	3.5
5	☐	1.000		2255735.47		A	6.3
6	☐	1.000		2396292.62		A	1.6
7	☐	1.000		2356519.06		A	4.8
8	☐	1.000		2215108.70		A	6.5

45 Sc (ISTD) [He]

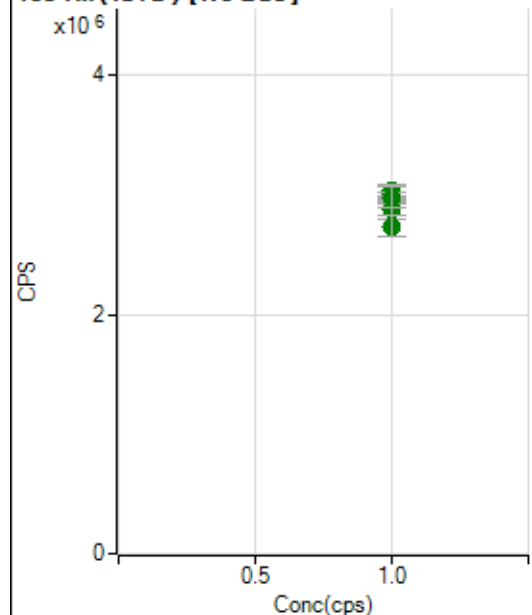
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		88400.61		P	1.7
2	☐	1.000		88783.20		P	1.1
3	☐	1.000		90019.79		P	1.5
4	☐	1.000		90052.12		P	1.3
5	☐	1.000		89883.19		P	0.6
6	☐	1.000		90932.01		P	1.9
7	☐	1.000		92142.77		P	1.1
8	☐	1.000		89916.76		P	1.5

89 Y (ISTD) [No Gas]

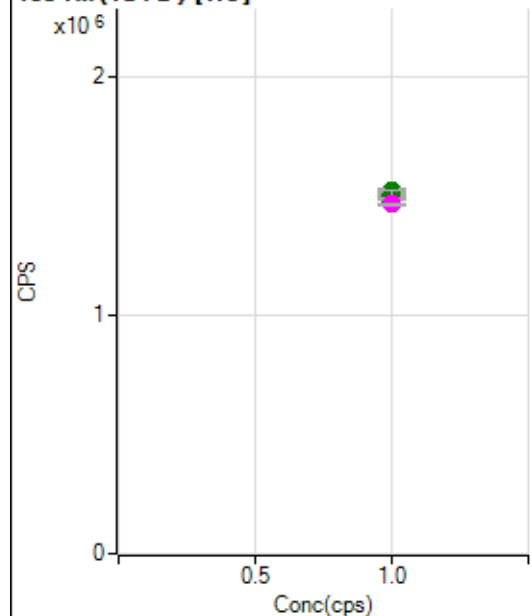
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4806178.64		A	2.1
2	☐	1.000		4883171.97		A	2.5
3	☐	1.000		4931395.72		A	3.0
4	☐	1.000		4847794.96		A	3.0
5	☐	1.000		4718391.28		A	5.2
6	☐	1.000		4982051.24		A	1.8
7	☐	1.000		4898038.82		A	5.8
8	☐	1.000		4602105.24		A	4.6

89 Y (ISTD) [He]

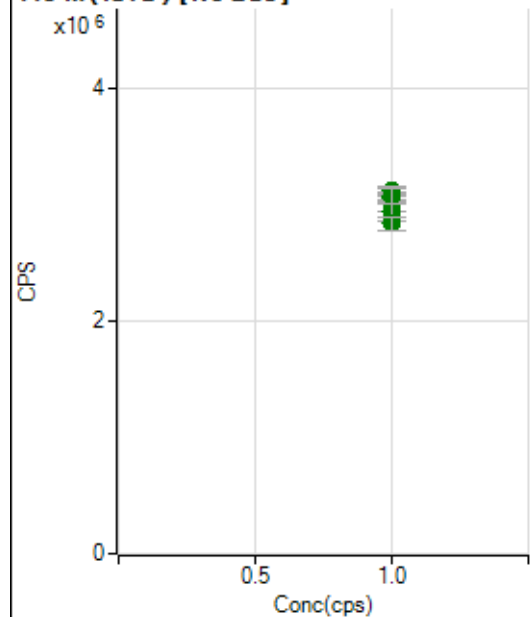
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		568705.70		P	2.7
2	☐	1.000		571577.48		P	1.1
3	☐	1.000		580546.51		P	1.6
4	☐	1.000		575313.66		P	1.8
5	☐	1.000		580451.37		P	1.4
6	☐	1.000		587162.05		P	1.2
7	☐	1.000		592482.23		P	1.5
8	☐	1.000		585218.56		P	1.9

103 Rh (ISTD) [No Gas]

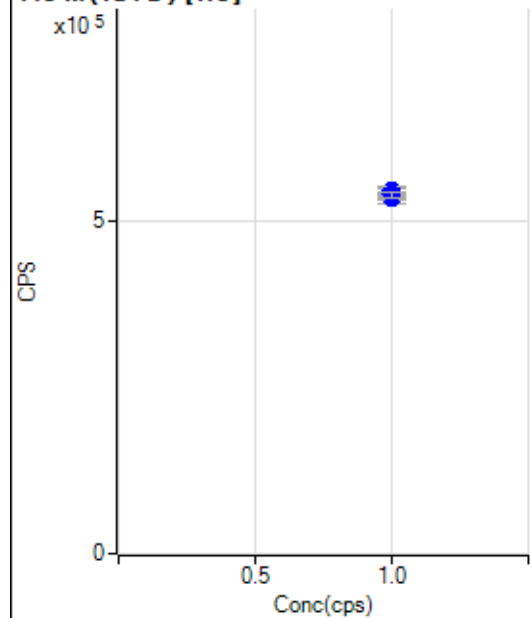
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2958491.28		A	1.1
2	☐	1.000		3032264.32		A	2.7
3	☐	1.000		3024128.78		A	4.5
4	☐	1.000		2975511.12		A	3.1
5	☐	1.000		2882667.62		A	5.7
6	☐	1.000		2998878.43		A	1.2
7	☐	1.000		2981054.00		A	5.9
8	☐	1.000		2739323.48		A	6.0

103 Rh (ISTD) [He]

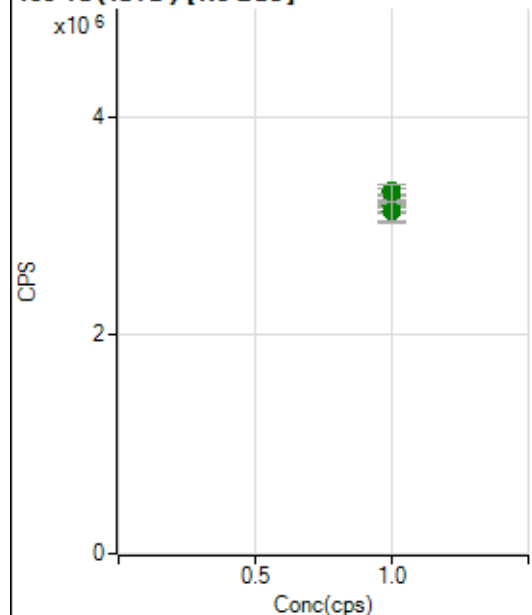
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1485065.81		A	2.3
2	☐	1.000		1480459.82		A	1.3
3	☐	1.000		1498671.45		A	1.6
4	☐	1.000		1488957.63		A	2.8
5	☐	1.000		1499096.19		A	2.4
6	☐	1.000		1522960.48		A	1.4
7	☐	1.000		1511892.83		A	2.1
8	☐	1.000		1467792.88		M	0.7

115 In (ISTD) [No Gas]

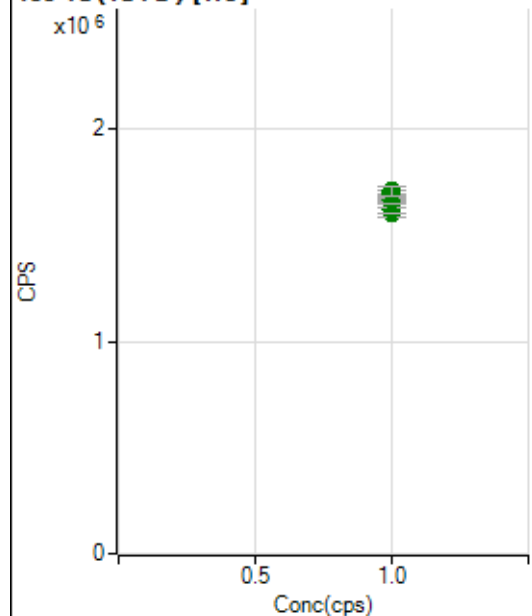
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3060006.20		A	1.7
2	☐	1.000		3079007.89		A	2.2
3	☐	1.000		3085033.93		A	3.5
4	☐	1.000		3011852.88		A	4.0
5	☐	1.000		2944921.04		A	5.5
6	☐	1.000		3121798.15		A	2.0
7	☐	1.000		3074056.02		A	4.2
8	☐	1.000		2838487.80		A	3.9

115 In (ISTD) [He]

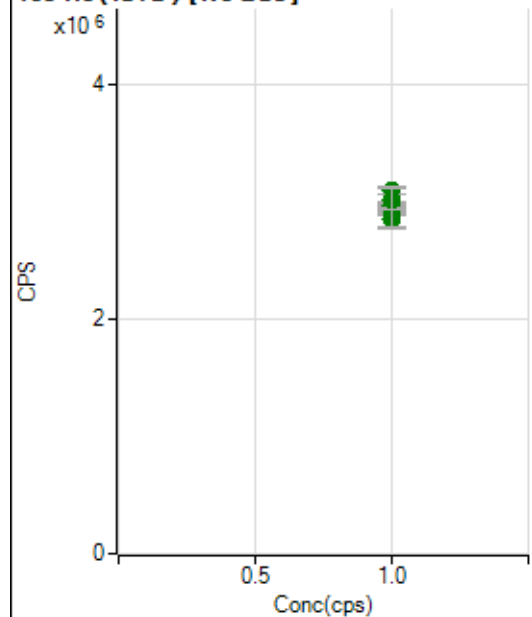
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		535010.77		P	2.5
2	☐	1.000		535730.56		P	1.0
3	☐	1.000		544805.73		P	2.0
4	☐	1.000		539021.76		P	2.2
5	☐	1.000		541292.87		P	1.0
6	☐	1.000		545648.99		P	1.3
7	☐	1.000		546736.51		P	2.1
8	☐	1.000		541242.55		P	1.8

159 Tb (ISTD) [No Gas]

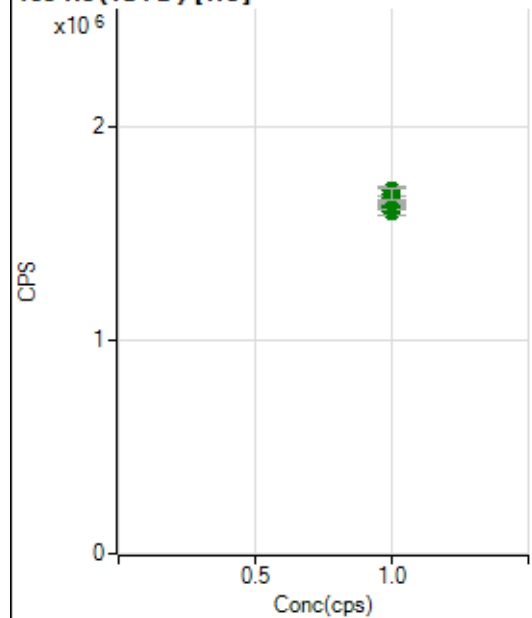
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3144180.61		A	1.8
2	☐	1.000		3234249.85		A	3.2
3	☐	1.000		3230708.53		A	2.9
4	☐	1.000		3191128.77		A	3.4
5	☐	1.000		3129866.48		A	5.2
6	☐	1.000		3323378.77		A	1.9
7	☐	1.000		3305570.78		A	5.0
8	☐	1.000		3127991.55		A	6.3

159 Tb (ISTD) [He]

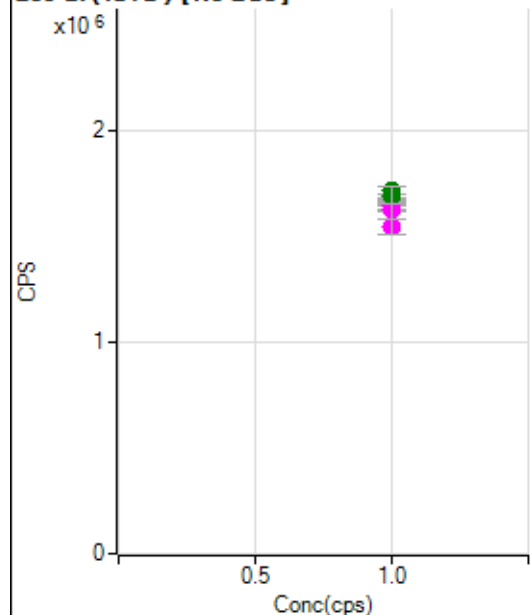
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1606673.12		A	2.9
2	☐	1.000		1619386.71		A	1.9
3	☐	1.000		1646348.67		A	1.4
4	☐	1.000		1646801.22		A	2.0
5	☐	1.000		1668427.96		A	2.5
6	☐	1.000		1690437.01		A	2.2
7	☐	1.000		1708968.29		A	2.9
8	☐	1.000		1705841.75		A	2.8

165 Ho (ISTD) [No Gas]

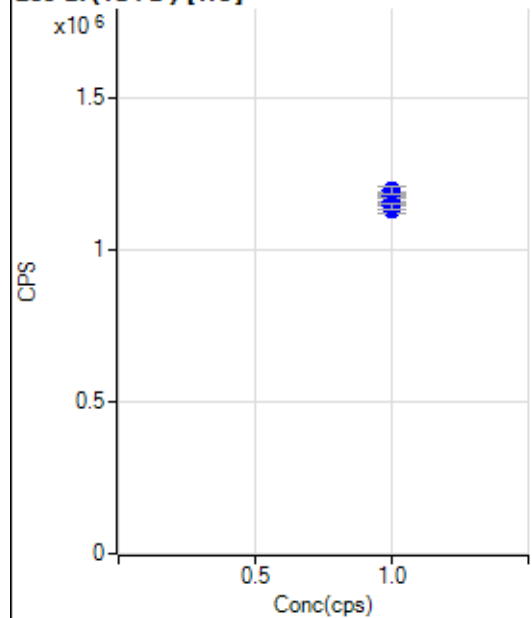
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2909983.73		A	0.6
2	☐	1.000		2939290.71		A	1.6
3	☐	1.000		2963325.61		A	3.0
4	☐	1.000		2939627.97		A	3.1
5	☐	1.000		2861251.15		A	6.8
6	☐	1.000		3093795.88		A	2.2
7	☐	1.000		3025081.53		A	6.1
8	☐	1.000		2854387.41		A	5.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1608989.42		A	2.8
2	☐	1.000		1604135.63		A	2.2
3	☐	1.000		1627331.00		A	1.8
4	☐	1.000		1630415.10		A	1.6
5	☐	1.000		1653665.27		A	0.9
6	☐	1.000		1669680.98		A	1.7
7	☐	1.000		1703444.58		A	2.8
8	☐	1.000		1690900.01		A	3.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1627239.72		M	0.3
2	☐	1.000		1662578.22		M	1.9
3	☐	1.000		1653855.81		M	3.4
4	☐	1.000		1644652.33		M	3.0
5	☐	1.000		1625256.99		M	5.4
6	☐	1.000		1717694.97		A	2.0
7	☐	1.000		1696596.12		A	5.0
8	☐	1.000		1547984.20		M	4.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1132774.28		P	2.4
2	☐	1.000		1145806.15		P	2.1
3	☐	1.000		1169861.76		P	2.2
4	☐	1.000		1160237.20		P	2.5
5	☐	1.000		1178138.88		P	0.6
6	☐	1.000		1180253.26		P	1.5
7	☐	1.000		1194401.02		P	2.0
8	☐	1.000		1144468.27		P	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8120220MS.b
Acq. Date-Time 2020-12-02 10:41:22
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		3307	33067.04			0.806	5.000
24		36724	367235.30			0.801	5.000
25		4899	48985.21			0.536	5.000
26		5654	56539.70			0.948	5.000
59		17096	170963.86			0.697	5.000
113		2317	23166.75			0.686	5.000
115		6934	69336.59			0.590	5.000
206		2305	23052.93			1.694	5.000
207		1909	19088.82			1.313	5.000
208		4662	46624.77			1.619	5.000
220		1	10.60			14.691	

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

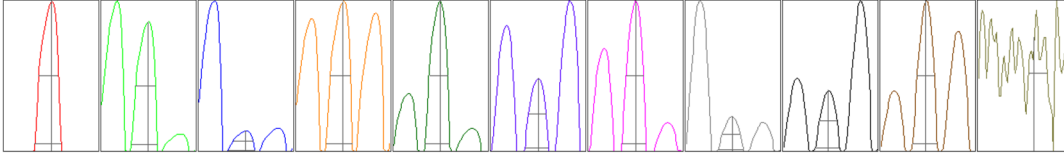
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3333	3276	3322	3322	3280
24	36926	36261	36672	37021	36738
25	4917	4865	4899	4930	4881
26	5701	5565	5671	5686	5648
59	17086	16896	17163	17196	17141
113	2312	2292	2324	2335	2320
115	6952	6895	6955	6980	6886
206	2269	2259	2341	2341	2315
207	1886	1889	1914	1948	1909
208	4611	4573	4695	4768	4666

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5710.02	9.05	8.90 - 9.10	
24	61856.26	24.00	23.90 - 24.10	
25	8186.13	25.00	24.90 - 25.10	
26	9243.64	26.00	25.90 - 26.10	
59	30736.63	59.00	58.90 - 59.10	
113	4371.59	113.05	112.90 - 113.10	
115	13265.50	115.05	114.90 - 115.10	
206	4299.92	206.00	205.90 - 206.10	
207	3582.60	206.95	206.90 - 207.10	
208	8922.83	207.95	207.90 - 208.10	
220	1.25	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.824	0.900	
24	0.63	0.823	0.900	
25	0.64	0.831	0.900	
26	0.65	0.827	0.900	
59	0.59	0.780	0.900	
113	0.55	0.738	0.900	
115	0.54	0.768	0.900	
206	0.56	0.789	0.900	
207	0.55	0.763	0.900	
208	0.55	0.776	0.900	
220	0.58			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	15.4 V
Extract 2	-240.0 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	150 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4071	40706.80			1.190	
89		9292	92919.20			0.808	
205		7106	71058.51			0.521	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4083	4072	4093	3989	4116
89	9326	9264	9279	9194	9396
205	7126	7132	7095	7045	7130

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-240.0 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	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V