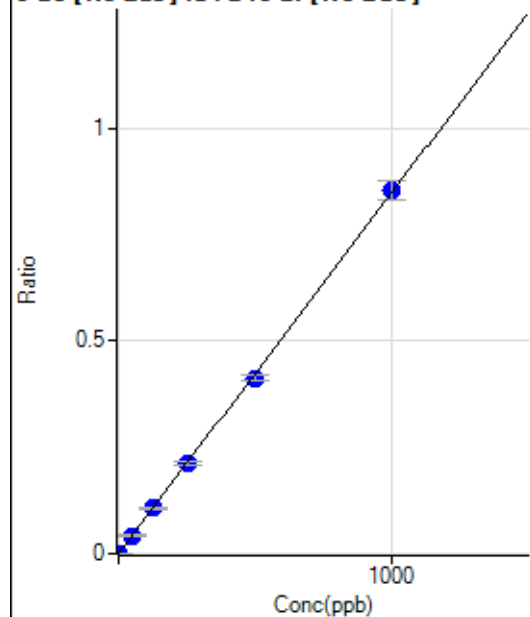


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072420MS.b\
Analysis File: P8072420MS.batch.bin
DA Date-Time: 2020-07-25 01:45:03
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-07-24 11:56:32
2	007CAL.S.d	S02	2020-07-24 12:02:41
3	008CAL.S.d	S03	2020-07-24 12:05:47
4	009CAL.S.d	S04	2020-07-24 12:08:51
5	010CAL.S.d	S05	2020-07-24 12:11:52
6	011CAL.S.d	S06	2020-07-24 12:14:50
7	014CAL.S.d	S07	2020-07-24 12:23:49
8	015CAL.S.d	S08	2020-07-24 12:26:47

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	40.66	0.0000	P	15.4
2	☐	1.000	0.936	801.20	0.0008	P	8.9
3	☐	50.000	50.295	41233.10	0.0427	P	1.9
4	☐	125.000	125.479	103833.67	0.1064	P	2.2
5	☐	250.000	249.196	206236.97	0.2112	P	4.6
6	☐	500.000	487.640	412763.80	0.4132	P	2.4
7	☐	1000.000	1006.307	834557.36	0.8527	P	5.5
8	☐			265.28	0.0003	P	4.3

$$y = 8.4733\text{E-}004 * x + 4.1416\text{E-}005$$

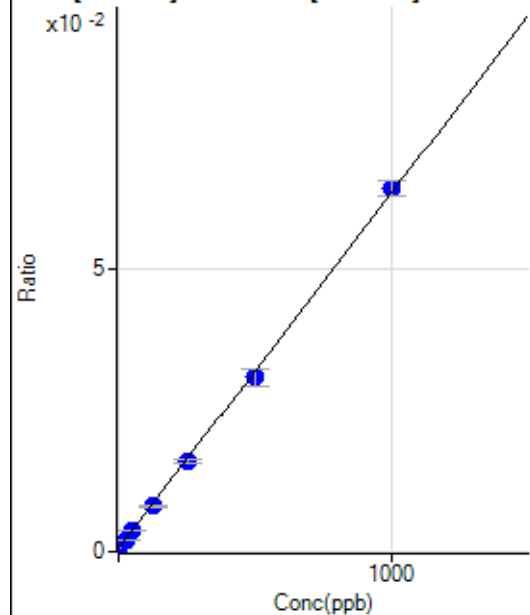
$$R = 0.9999$$

$$DL = 0.02253$$

$$BEC = 0.04888$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	575.23	0.0006	P	5.0
2	☐	25.000	22.947	1953.75	0.0020	P	3.4
3	☐	50.000	49.199	3557.07	0.0037	P	5.1
4	☐	125.000	118.891	7877.23	0.0081	P	4.7
5	☐	250.000	243.772	15583.87	0.0159	P	4.7
6	☐	500.000	481.428	30812.08	0.0309	P	9.2
7	☐	1000.000	1011.698	62993.54	0.0642	P	4.2
8	☐			11033.98	0.0115	P	10.0

$$y = 6.2893\text{E-}005 * x + 5.8587\text{E-}004$$

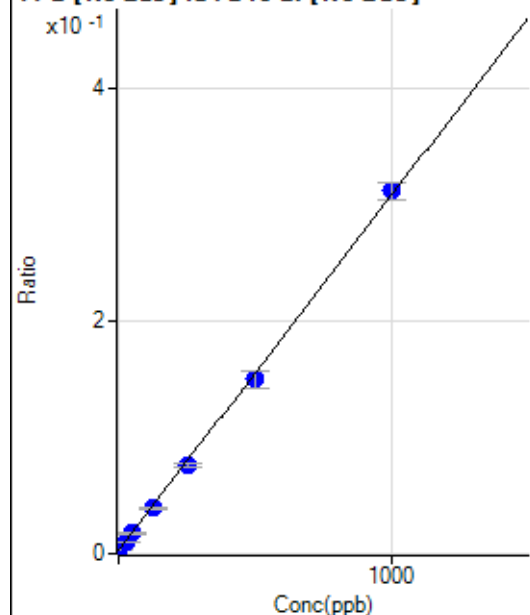
$$R = 0.9997$$

$$DL = 1.396$$

$$BEC = 9.315$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2779.72	0.0028	P	3.4
2	☐	25.000	22.669	9373.81	0.0097	P	2.5
3	☐	50.000	48.217	16945.07	0.0175	P	4.9
4	☐	125.000	119.643	38388.99	0.0393	P	5.3
5	☐	250.000	241.216	74726.55	0.0763	P	3.7
6	☐	500.000	481.482	149311.80	0.1496	P	9.2
7	☐	1000.000	1012.272	305516.43	0.3113	P	4.7
8	☐			52460.59	0.0545	P	8.9

$$y = 3.0477\text{E-}004 * x + 0.0028$$

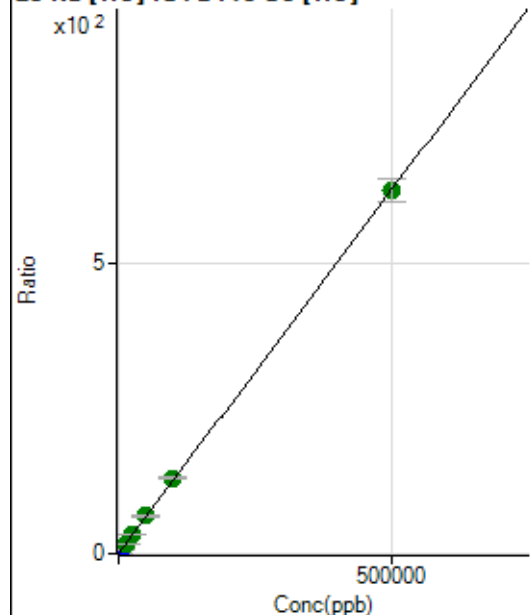
$$R = 0.9997$$

$$DL = 0.9393$$

$$BEC = 9.285$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35786.10	0.3558	P	5.6
2	☐	500.000	489.406	95867.04	0.9668	P	1.4
3	☐	5000.000	5382.575	699832.19	7.0763	P	1.5
4	☐	12500.000	13013.232	1655814.92	16.6037	A	1.3
5	☐	25000.000	26198.012	3291376.44	33.0659	A	2.8
6	☐	50000.000	51801.810	6411124.93	65.0341	A	2.6
7	☐	100000.00	104221.77	12958827.46	130.4842	A	1.2
8	☐	500000.00	498898.91	63044265.99	623.2673	A	6.4

$$y = 0.0012 * x + 0.3558$$

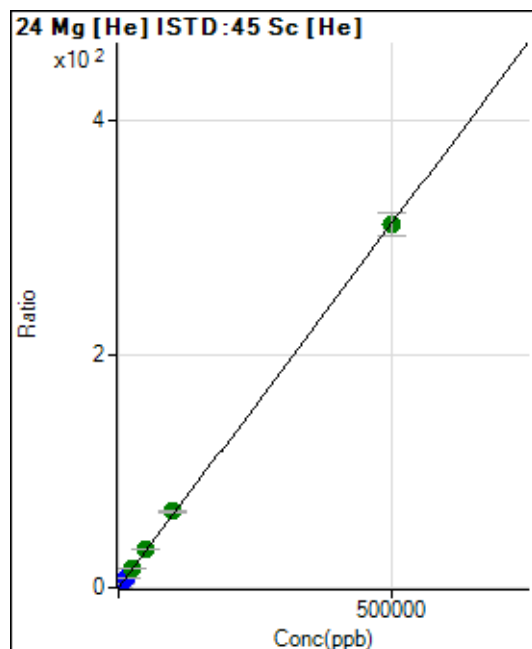
$$R = 1.0000$$

$$DL = 47.93$$

$$BEC = 284.9$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2817.01	0.0280	P	3.2
2	☐	500.000	478.678	32350.32	0.3263	P	1.5
3	☐	5000.000	5381.657	334395.10	3.3814	P	2.5
4	☐	12500.000	13205.155	823383.77	8.2563	P	0.3
5	☐	25000.000	26450.414	1643460.24	16.5096	A	2.2
6	☐	50000.000	52978.339	3256934.40	33.0394	A	3.1
7	☐	100000.00	104710.92	6482640.47	65.2747	A	1.1
8	☐	500000.00	498666.03	31431817.37	310.7530	A	6.5

$$y = 6.2311\text{E-}004 * x + 0.0280$$

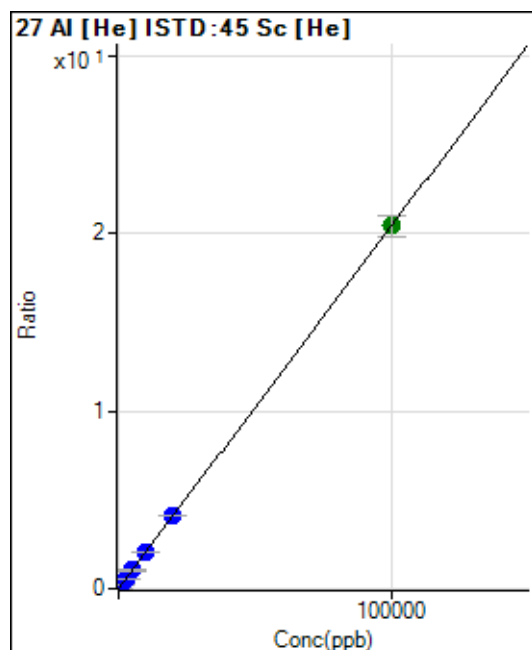
$$R = 0.9999$$

$$DL = 4.277$$

$$BEC = 44.91$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	951.18	0.0095	P	9.1
2	☐	20.000	18.848	1321.14	0.0133	P	2.5
3	☐	1000.000	1016.387	21482.87	0.2172	P	0.7
4	☐	2500.000	2469.176	51272.71	0.5141	P	0.3
5	☐	5000.000	4999.737	102663.69	1.0313	P	2.2
6	☐	10000.000	10067.061	203778.28	2.0670	P	2.2
7	☐	20000.000	19994.064	406780.78	4.0959	P	0.4
8	☐	100000.00	99995.101	2068509.04	20.4468	A	6.2

$$y = 2.0438\text{E-}004 * x + 0.0095$$

$$R = 1.0000$$

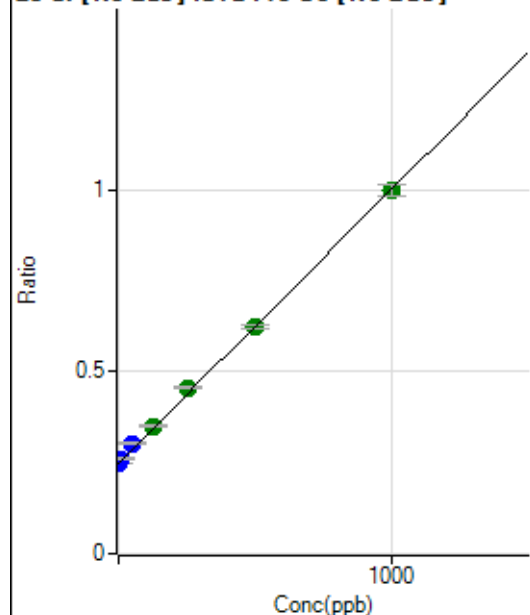
$$DL = 12.61$$

$$BEC = 46.33$$

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	736200.54	0.2484	P	1.0
2	☐	10.000	16.045	751920.54	0.2605	P	3.0
3	☐	50.000	73.518	904877.67	0.3039	P	0.4
4	☐	125.000	135.917	1044538.37	0.3510	A	0.8
5	☐	250.000	276.768	1356923.81	0.4573	A	2.2
6	☐	500.000	494.776	1905599.67	0.6218	A	1.7
7	☐	1000.000	993.319	2938772.81	0.9981	A	3.3
8	☐			883796.17	0.2920	P	0.1

$$y = 7.5478\text{E-}004 * x + 0.2484$$

$$R = 0.9995$$

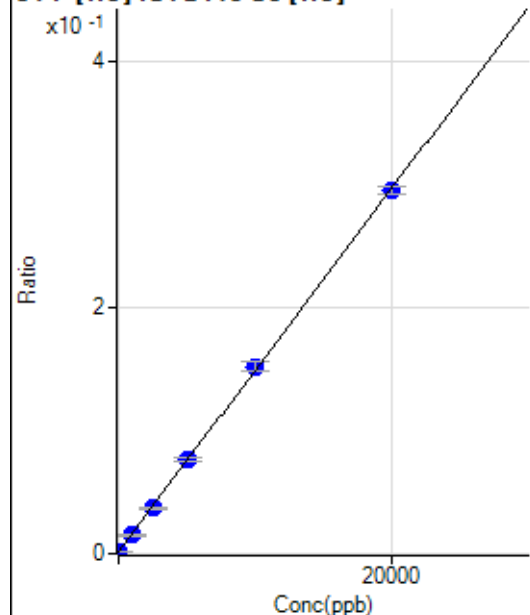
$$DL = 9.995$$

$$BEC = 329.1$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	5.662	172.23	0.0017	P	22.5
2	☐	0.000	-5.662	152.78	0.0015	P	21.6
3	☐	1000.000	916.349	1494.56	0.0151	P	7.0
4	☐	2500.000	2416.738	3711.69	0.0372	P	3.2
5	☐	5000.000	5110.931	7652.20	0.0769	P	4.0
6	☐	10000.000	10208.684	14977.48	0.1520	P	5.1
7	☐	20000.000	19882.516	29241.04	0.2945	P	2.0
8	☐			166.67	0.0017	P	42.9

$$y = 1.4728\text{E-}005 * x + 0.0016$$

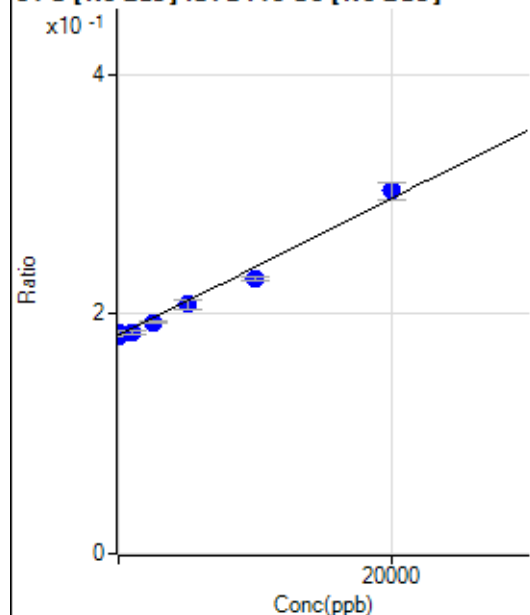
$$R = 0.9999$$

$$DL = 72.81$$

$$BEC = 110.1$$

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	-260.496	536274.74	0.1809	P	1.5
2	☐	0.000	260.496	530883.91	0.1839	P	2.9
3	☐	1000.000	385.897	549729.18	0.1846	P	1.5
4	☐	2500.000	1858.260	574473.07	0.1930	P	0.8
5	☐	5000.000	4516.037	617488.62	0.2082	P	3.6
6	☐	10000.000	8274.054	703826.37	0.2297	P	1.3
7	☐	20000.000	21094.886	891402.88	0.3029	P	4.5
8	☐			538434.21	0.1779	P	0.3

$$y = 5.7090\text{E-}006 * x + 0.1824$$

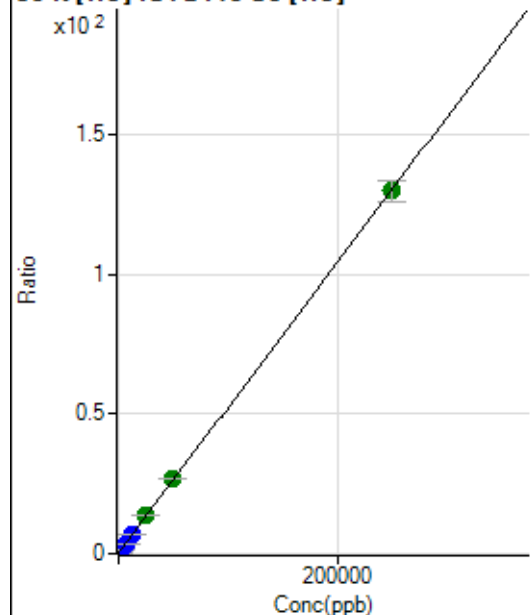
$$R = 0.9943$$

$$DL = 2083$$

$$BEC = 3.196\text{E}+04$$

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	28843.27	0.2868	P	6.3
2	☐	500.000	461.412	52181.02	0.5263	P	1.9
3	☐	2500.000	2644.359	164106.80	1.6591	P	0.5
4	☐	6250.000	6451.323	362484.40	3.6347	P	0.4
5	☐	12500.000	13111.709	705803.96	7.0911	P	2.7
6	☐	25000.000	26316.137	1374782.12	13.9434	A	1.8
7	☐	50000.000	51261.135	2670271.89	26.8885	A	1.1
8	☐	250000.00	249579.17	13134233.19	129.8044	A	5.5

$$y = 5.1894\text{E-}004 * x + 0.2868$$

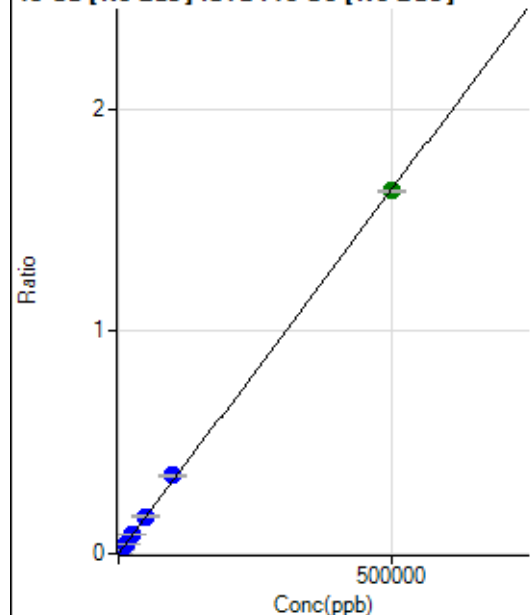
$$R = 1.0000$$

$$DL = 104.9$$

$$BEC = 552.7$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	697.26	0.0002	P	19.0
2	☐	500.000	488.512	5298.35	0.0018	P	3.6
3	☐	5000.000	5293.787	52309.70	0.0176	P	3.5
4	☐	12500.000	12873.365	126156.95	0.0424	P	2.0
5	☐	25000.000	26038.850	253533.81	0.0855	P	4.9
6	☐	50000.000	51435.949	516979.85	0.1687	P	1.7
7	☐	100000.00	107000.94	1032390.57	0.3507	P	3.6
8	☐	500000.00	498392.01	4941392.12	1.6325	A	0.8

$$y = 3.2751\text{E-}006 * x + 2.3542\text{E-}004$$

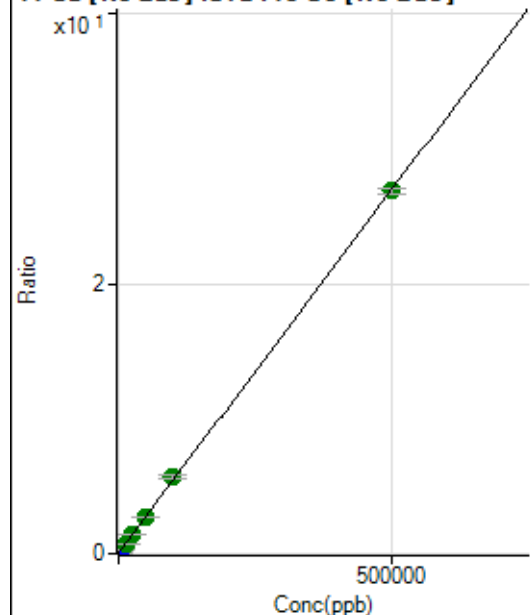
$$R = 0.9999$$

$$DL = 40.89$$

$$BEC = 71.88$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	141663.29	0.0478	P	2.1
2	☐	500.000	466.030	210329.52	0.0729	P	3.3
3	☐	5000.000	5539.369	1029570.16	0.3458	P	2.5
4	☐	12500.000	13055.631	2232733.82	0.7503	A	0.6
5	☐	25000.000	25801.740	4257963.72	1.4361	A	4.5
6	☐	50000.000	50259.932	8433650.19	2.7520	A	1.4
7	☐	100000.00	105521.21	16855181.45	5.7254	A	3.7
8	☐	500000.00	498810.42	81381168.49	26.8862	A	1.4

$$y = 5.3805\text{E-}005 * x + 0.0478$$

$$R = 0.9999$$

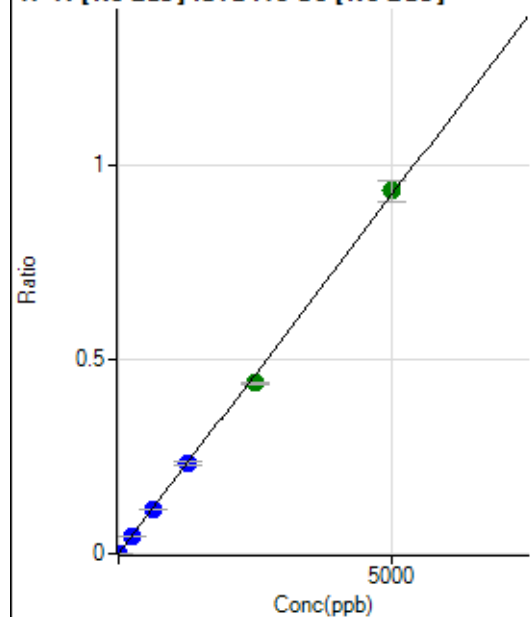
$$DL = 55.87$$

$$BEC = 888.4$$

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	802.82	0.0003	P	11.2
2	☐	5.000	4.655	3256.02	0.0011	P	8.0
3	☐	250.000	249.536	137688.56	0.0462	P	1.6
4	☐	625.000	619.925	340688.35	0.1145	P	1.9
5	☐	1250.000	1256.782	687433.67	0.2318	P	4.0
6	☐	2500.000	2381.075	1345245.93	0.4390	A	0.9
7	☐	5000.000	5058.425	2742934.07	0.9323	A	5.8
8	☐			927.84	0.0003	P	9.5

$$y = 1.8424\text{E-}004 * x + 2.7093\text{E-}004$$

$$R = 0.9996$$

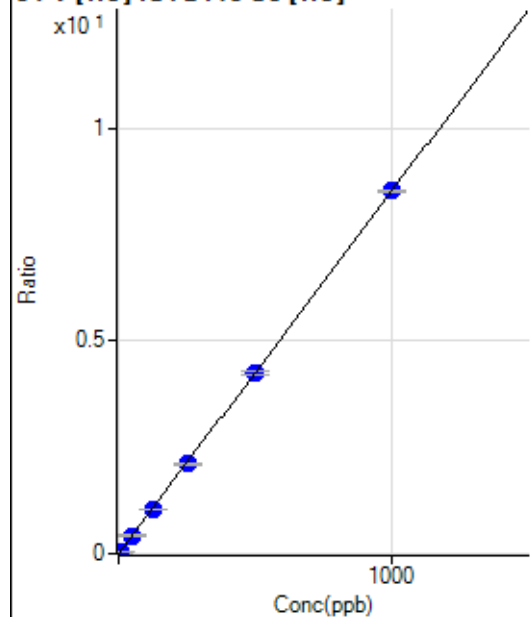
$$DL = 0.493$$

$$BEC = 1.47$$

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	10.00	0.0001	P	60.1
2	☐	5.000	4.544	3849.44	0.0388	P	4.0
3	☐	50.000	50.284	42401.56	0.4287	P	1.2
4	☐	125.000	123.269	104793.38	1.0508	P	1.5
5	☐	250.000	247.244	209774.14	2.1075	P	2.7
6	☐	500.000	498.827	419136.44	4.2519	P	3.1
7	☐	1000.000	1001.480	847777.59	8.5364	P	0.3
8	☐			130.00	0.0013	P	14.4

$$y = 0.0085 * x + 1.0145\text{E-}004$$

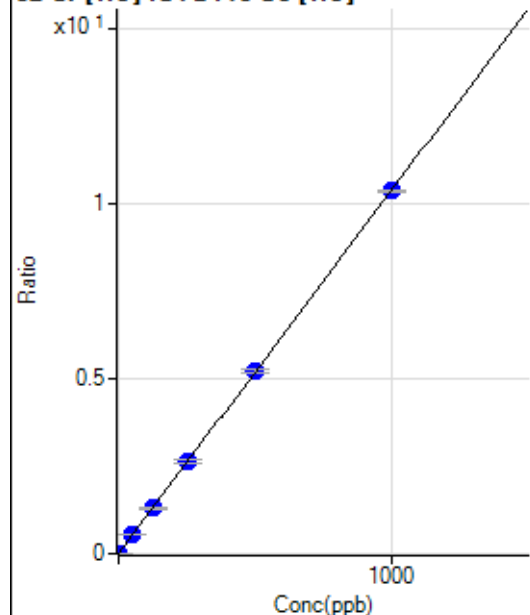
$$R = 1.0000$$

$$DL = 0.02146$$

$$BEC = 0.0119$$

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	622.24	0.0062	P	10.0
2	☐	2.000	1.830	2494.69	0.0252	P	5.1
3	☐	50.000	50.452	52337.58	0.5292	P	0.5
4	☐	125.000	124.072	128874.18	1.2923	P	0.6
5	☐	250.000	253.229	261865.61	2.6310	P	3.0
6	☐	500.000	501.713	513288.37	5.2067	P	2.5
7	☐	1000.000	998.430	1028420.97	10.3554	P	0.5
8	☐			4643.01	0.0459	P	7.5

$$y = 0.0104 * x + 0.0062$$

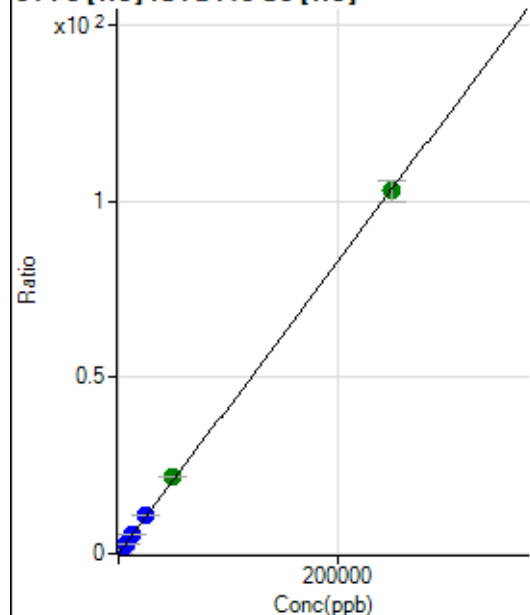
$$R = 1.0000$$

$$DL = 0.1796$$

$$BEC = 0.5975$$

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	333.35	0.0033	P	1.3
2	☐	50.000	51.883	2450.25	0.0247	P	5.7
3	☐	2500.000	2659.116	108848.59	1.1006	P	1.4
4	☐	6250.000	6444.495	265529.49	2.6625	P	0.6
5	☐	12500.000	13015.672	534784.95	5.3740	P	3.9
6	☐	25000.000	26211.989	1066562.84	10.8193	P	2.7
7	☐	50000.000	53106.121	2176587.81	21.9168	A	0.6
8	☐	250000.00	249225.34	10405512.97	102.8425	A	6.0

$$y = 4.1264E-004 * x + 0.0033$$

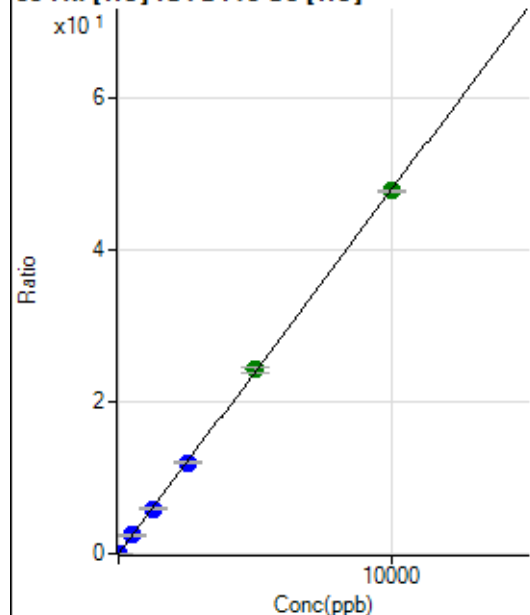
$$R = 0.9999$$

$$DL = 0.3014$$

$$BEC = 8.014$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	60.00	0.0006	P	22.9
2	☐	1.000	0.936	503.35	0.0051	P	4.0
3	☐	500.000	504.667	239165.95	2.4183	P	1.5
4	☐	1250.000	1236.808	590964.44	5.9258	P	0.8
5	☐	2500.000	2500.677	1192360.36	11.9807	P	3.3
6	☐	5000.000	5067.656	2393204.84	24.2784	A	3.2
7	☐	10000.000	9967.418	4742417.67	47.7518	A	0.7
8	☐			3044.80	0.0301	P	6.2

$$y = 0.0048 * x + 5.9106E-004$$

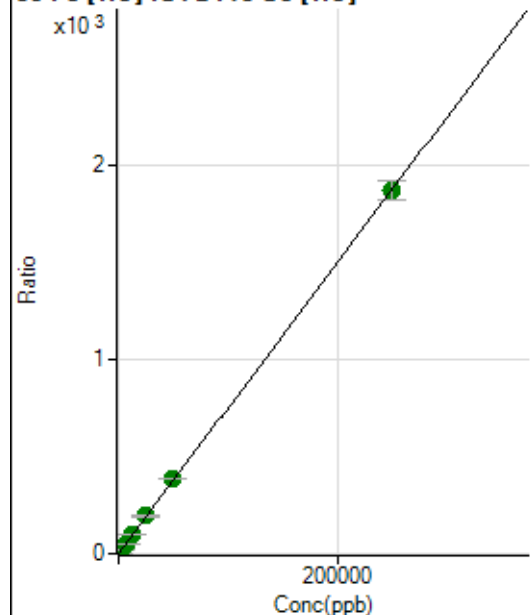
$$R = 1.0000$$

$$DL = 0.08477$$

$$BEC = 0.1234$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3472.70	0.0345	P	7.7
2	☐	50.000	47.213	38528.12	0.3885	P	0.7
3	☐	2500.000	2631.400	1954703.40	19.7641	A	1.9
4	☐	6250.000	6378.219	4772591.66	47.8569	A	1.2
5	☐	12500.000	12956.163	9672005.66	97.1767	A	3.0
6	☐	25000.000	25801.149	19073057.60	193.4853	A	3.0
7	☐	50000.000	51235.363	38156829.56	384.1848	A	0.7
8	☐	250000.00	249645.48	189443287.5	1.871.815	A	5.1

$$y = 0.0075 * x + 0.0345$$

$$R = 1.0000$$

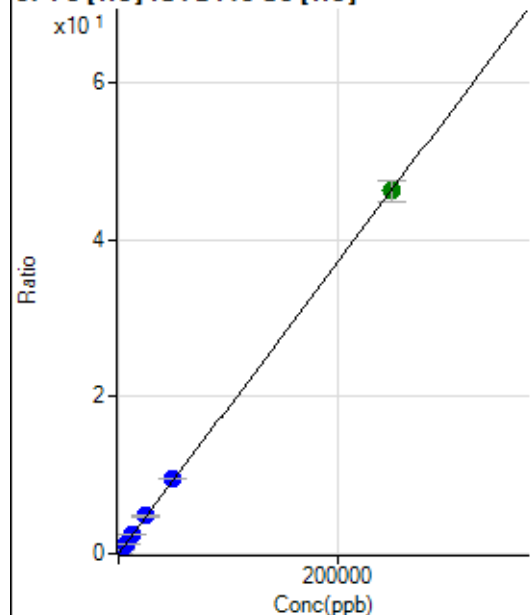
$$DL = 1.06$$

$$BEC = 4.607$$

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	135.19	0.0014	P	19.1
2	☐	50.000	45.588	972.27	0.0098	P	3.9
3	☐	2500.000	2602.186	47863.68	0.4839	P	0.3
4	☐	6250.000	6404.111	118564.27	1.1889	P	0.5
5	☐	12500.000	13000.767	240078.38	2.4121	P	3.0
6	☐	25000.000	25941.794	474367.37	4.8118	P	2.4
7	☐	50000.000	51410.689	946924.47	9.5346	P	0.5
8	☐	250000.00	249593.77	4682301.61	46.2843	A	6.0

$$y = 1.8543\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

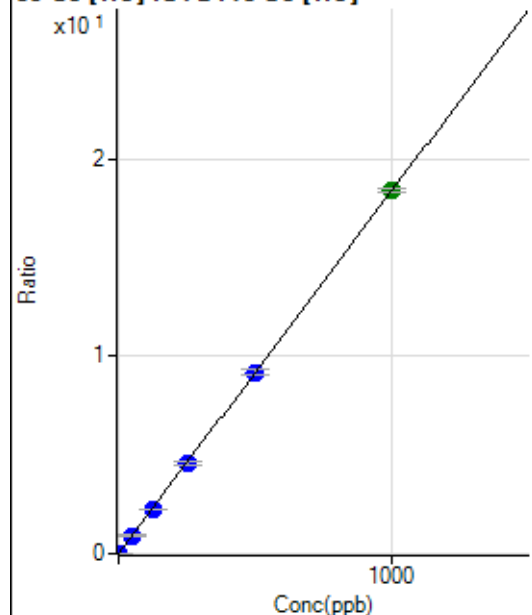
$$DL = 4.169$$

$$BEC = 7.281$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	45.55	0.0005	P	22.4
2	☐	1.000	0.929	1737.90	0.0175	P	3.3
3	☐	50.000	50.309	91484.79	0.9250	P	0.8
4	☐	125.000	122.826	225141.20	2.2576	P	1.0
5	☐	250.000	249.871	457028.77	4.5923	P	3.4
6	☐	500.000	499.136	904209.93	9.1729	P	3.3
7	☐	1000.000	1000.721	1826380.06	18.3904	A	1.1
8	☐			3090.36	0.0306	P	7.5

$$y = 0.0184 * x + 4.5117\text{E-}004$$

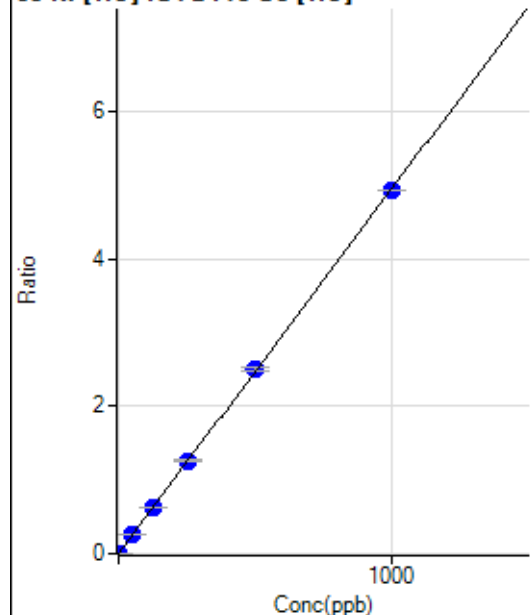
$$R = 1.0000$$

$$DL = 0.01652$$

$$BEC = 0.02455$$

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	161.11	0.0016	P	1.8
2	☐	1.000	0.877	588.91	0.0059	P	17.2
3	☐	50.000	51.091	25128.96	0.2541	P	1.3
4	☐	125.000	125.369	61946.37	0.6211	P	0.6
5	☐	250.000	253.796	125015.14	1.2558	P	2.0
6	☐	500.000	507.209	247252.74	2.5081	P	2.6
7	☐	1000.000	995.346	488670.62	4.9204	P	0.2
8	☐			1694.56	0.0167	P	5.0

$$y = 0.0049 * x + 0.0016$$

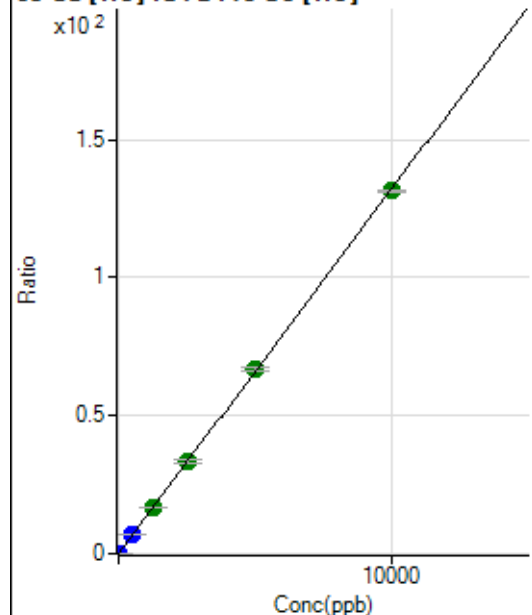
$$R = 1.0000$$

$$DL = 0.01769$$

$$BEC = 0.3235$$

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	591.13	0.0059	P	3.4
2	☐	2.000	2.030	3240.40	0.0327	P	4.7
3	☐	500.000	514.940	673230.42	6.8073	P	1.5
4	☐	1250.000	1259.903	1660120.19	16.6469	A	1.6
5	☐	2500.000	2549.318	3351382.28	33.6778	A	3.8
6	☐	5000.000	5071.276	6604287.33	66.9883	A	2.2
7	☐	10000.000	9950.048	13052747.03	131.4280	A	0.2
8	☐			4210.67	0.0415	P	1.2

$$y = 0.0132 * x + 0.0059$$

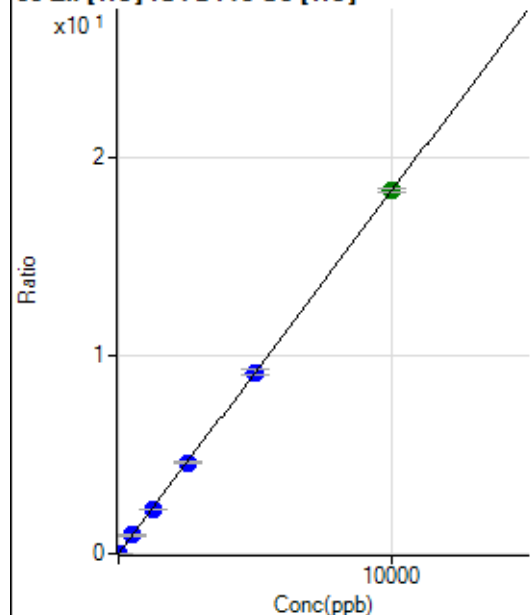
$$R = 0.9999$$

$$DL = 0.04475$$

$$BEC = 0.4445$$

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	112.23	0.0011	P	20.6
2	☐	2.000	1.844	445.57	0.0045	P	6.7
3	☐	500.000	505.713	91665.01	0.9268	P	1.6
4	☐	1250.000	1230.848	224792.50	2.2541	P	1.0
5	☐	2500.000	2510.970	457565.21	4.5973	P	3.0
6	☐	5000.000	4994.880	901374.44	9.1439	P	2.9
7	☐	10000.000	10001.926	1818434.07	18.3089	A	1.0
8	☐			1498.98	0.0148	P	10.3

$$y = 0.0018 * x + 0.0011$$

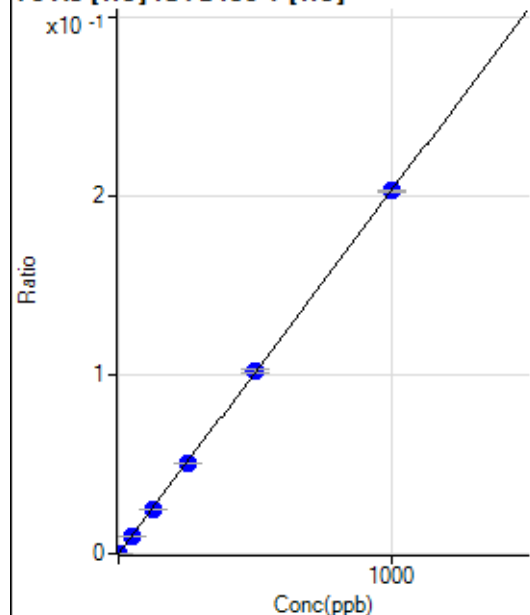
$$R = 1.0000$$

$$DL = 0.3776$$

$$BEC = 0.6119$$

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	7.67	0.0000	P	33.9
2	☐	1.000	0.900	133.01	0.0002	P	9.8
3	☐	50.000	50.007	6904.39	0.0102	P	0.3
4	☐	125.000	122.983	17140.75	0.0250	P	0.4
5	☐	250.000	248.431	34711.87	0.0504	P	1.4
6	☐	500.000	502.408	69468.89	0.1020	P	2.0
7	☐	1000.000	999.440	139630.04	0.2029	P	0.6
8	☐			49.00	0.0001	P	19.5

$$y = 2.0296E-004 * x + 1.0990E-005$$

$$R = 1.0000$$

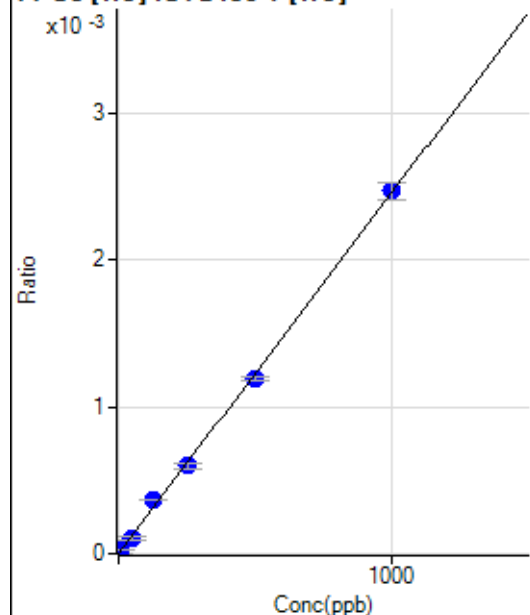
$$DL = 0.05511$$

$$BEC = 0.05415$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	9.233	16.66	0.0000	P	35.6
3	☐	50.000	43.926	74.45	0.0001	P	21.8
4	☐	125.000	149.080	252.23	0.0004	P	2.8
5	☐	250.000	244.111	413.34	0.0006	P	6.5
6	☐	500.000	485.859	813.36	0.0012	P	2.5
7	☐	1000.000	1005.815	1700.12	0.0025	P	5.1
8	☐			2.22	0.0000	P	173.2

$$y = 2.4541\text{E-}006 * x + 1.6569\text{E-}006$$

$$R = 0.9994$$

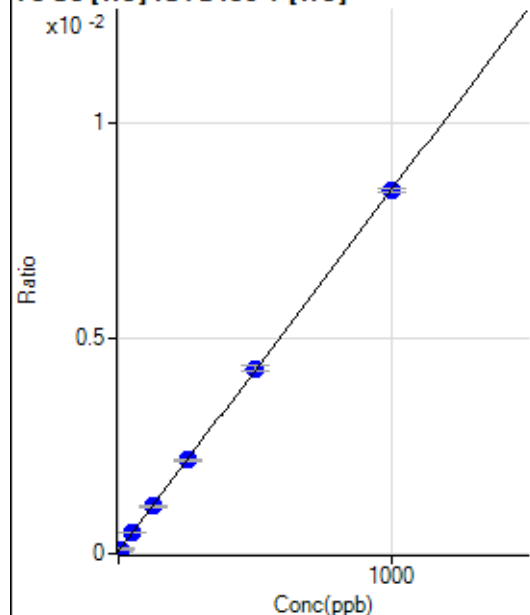
$$DL = 3.508$$

$$BEC = 0.6752$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	43.00	0.0001	P	11.5
2	☐	5.000	5.717	76.01	0.0001	P	11.9
3	☐	50.000	49.094	322.71	0.0005	P	0.7
4	☐	125.000	124.452	760.43	0.0011	P	2.3
5	☐	250.000	251.350	1495.90	0.0022	P	0.8
6	☐	500.000	506.123	2937.61	0.0043	P	3.5
7	☐	1000.000	996.711	5804.12	0.0084	P	1.1
8	☐			39.00	0.0001	P	22.0

$$y = 8.3972\text{E-}006 * x + 6.2643\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.579$$

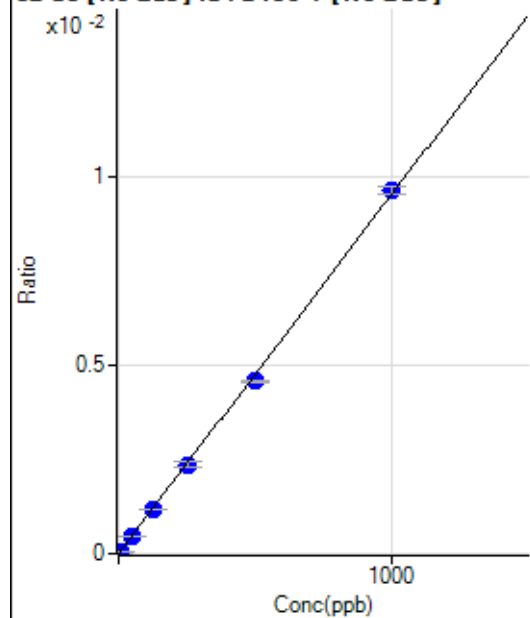
$$BEC = 7.46$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3640.92		P	2.2
2	☐			3490.70		P	6.6
3	☐			3684.29		P	5.0
4	☐			3417.27		P	2.7
5	☐			3704.31		P	2.4
6	☐			3630.88		P	4.3
7	☐			3657.61		P	6.8
8	☐			3887.89		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-8.81	0.0000	P	-378.
2	☐	5.000	5.091	291.61	0.0000	P	25.2
3	☐	50.000	49.574	2979.33	0.0005	P	1.2
4	☐	125.000	123.415	7533.22	0.0012	P	1.4
5	☐	250.000	248.338	15130.26	0.0024	P	6.2
6	☐	500.000	480.155	30549.50	0.0046	P	1.7
7	☐	1000.000	1010.557	60872.78	0.0096	P	2.3
8	☐			42.76	0.0000	P	132.7

$$y = 9.5283E-006 * x - 1.3742E-006$$

$$R = 0.9997$$

$$DL = 1.637$$

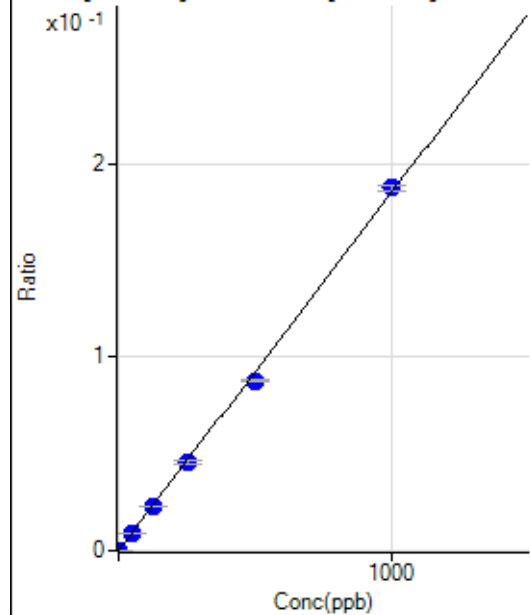
$$BEC = -0.1442$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			380.01		P	3.5
2	☐			346.68		P	8.3
3	☐			351.12		P	14.7
4	☐			378.90		P	6.7
5	☐			398.90		P	7.8
6	☐			388.90		P	5.7
7	☐			403.35		P	3.8
8	☐			381.12		P	7.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	552.80	0.0001	P	1.6
2	☐	1.000	0.988	1683.49	0.0003	P	5.2
3	☐	50.000	49.068	57934.41	0.0092	P	4.1
4	☐	125.000	122.166	145501.91	0.0227	P	1.3
5	☐	250.000	247.999	294261.72	0.0460	P	4.2
6	☐	500.000	474.920	587401.41	0.0879	P	1.3
7	☐	1000.000	1013.441	1185953.81	0.1876	P	1.9
8	☐			7032.46	0.0011	P	3.8

$$y = 1.8498E-004 * x + 8.7293E-005$$

$$R = 0.9995$$

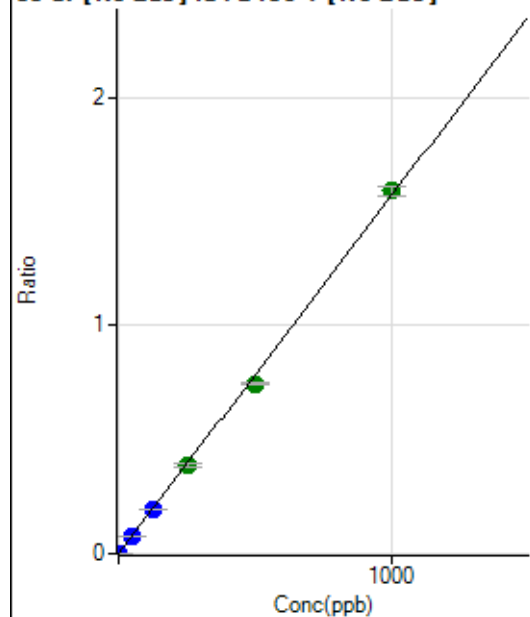
$$DL = 0.02199$$

$$BEC = 0.4719$$

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	161.12	0.0000	P	5.6
2	☐	1.000	0.934	9278.30	0.0015	P	2.8
3	☐	50.000	49.910	495691.59	0.0784	P	1.4
4	☐	125.000	123.793	1246754.41	0.1944	P	0.1
5	☐	250.000	249.075	2503827.44	0.3911	A	3.9
6	☐	500.000	474.660	4977906.97	0.7452	A	1.1
7	☐	1000.000	1013.056	10055093.80	1.5904	A	3.0
8	☐			55078.73	0.0085	P	0.7

$$y = 0.0016 * x + 2.5439E-005$$

$$R = 0.9995$$

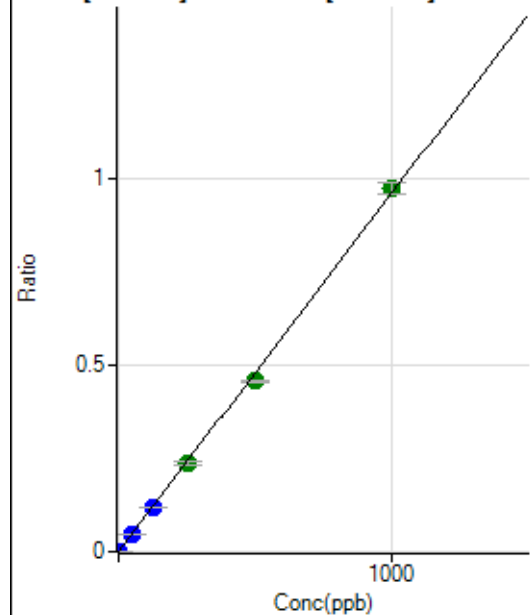
$$DL = 0.002742$$

$$BEC = 0.0162$$

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	280.57	0.0000	P	24.6
2	☐	1.000	0.934	5837.49	0.0009	P	6.0
3	☐	50.000	49.868	302433.22	0.0478	P	2.1
4	☐	125.000	123.882	761584.35	0.1187	P	1.4
5	☐	250.000	248.664	1525926.18	0.2383	A	3.9
6	☐	500.000	475.306	3042441.47	0.4555	A	1.2
7	☐	1000.000	1012.828	6135532.04	0.9705	A	3.3
8	☐			1591.81	0.0002	P	6.1

$$y = 9.5817E-004 * x + 4.4279E-005$$

$$R = 0.9996$$

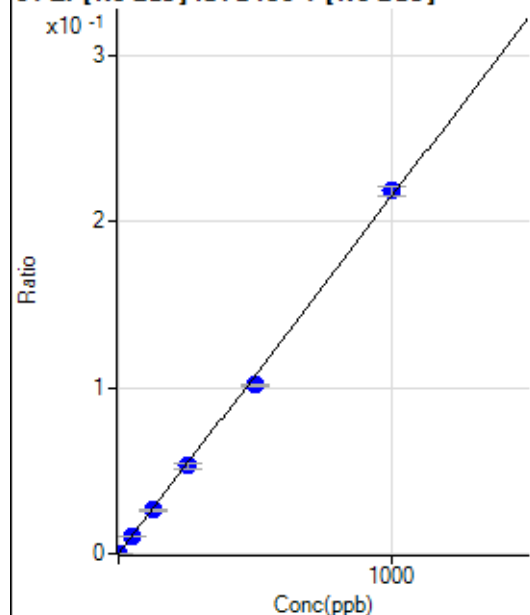
$$DL = 0.03412$$

$$BEC = 0.04621$$

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	86.12	0.0000	P	23.7
2	☐	1.000	0.895	1283.43	0.0002	P	10.2
3	☐	50.000	48.861	66587.49	0.0105	P	3.8
4	☐	125.000	121.712	168136.96	0.0262	P	2.1
5	☐	250.000	245.470	338257.24	0.0529	P	5.6
6	☐	500.000	471.252	677774.20	0.1015	P	1.6
7	☐	1000.000	1015.975	1383022.56	0.2187	P	2.5
8	☐			327.79	0.0001	P	13.8

$$y = 2.1529E-004 * x + 1.3585E-005$$

$$R = 0.9994$$

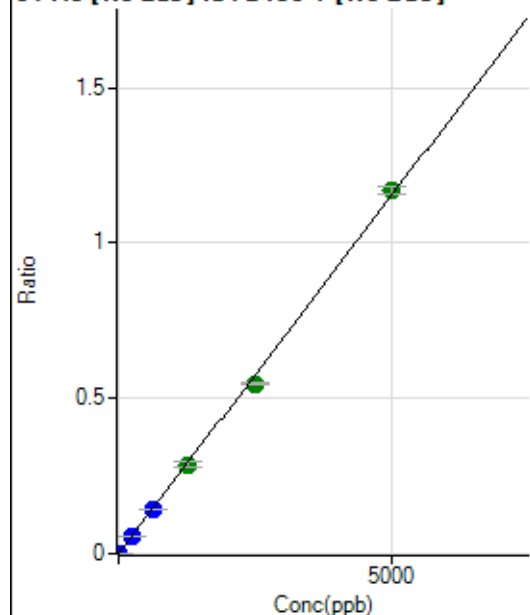
$$DL = 0.04479$$

$$BEC = 0.0631$$

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	108.34	0.0000	P	34.0
2	☐	5.000	4.725	6876.87	0.0011	P	6.8
3	☐	250.000	246.107	358732.83	0.0567	P	3.0
4	☐	625.000	616.870	911880.68	0.1422	P	2.4
5	☐	1250.000	1243.861	1834278.62	0.2867	A	6.2
6	☐	2500.000	2374.076	3654867.18	0.5472	A	1.6
7	☐	5000.000	5065.708	7382219.78	1.1675	A	2.1
8	☐			2080.77	0.0003	P	9.2

$$y = 2.3047E-004 * x + 1.7125E-005$$

$$R = 0.9995$$

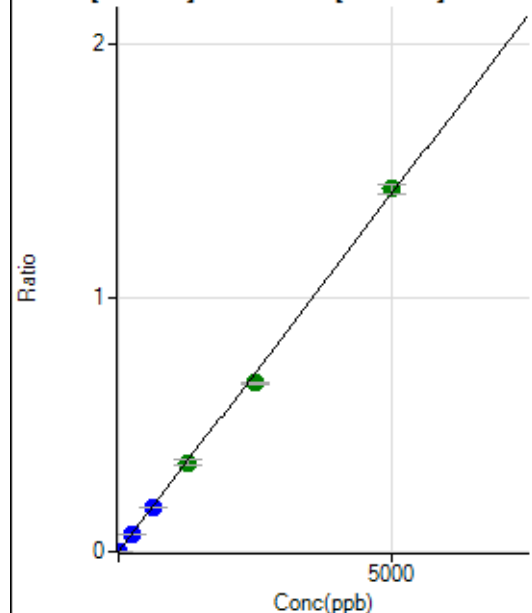
$$DL = 0.07575$$

$$BEC = 0.0743$$

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	38.89	0.0000	P	25.2
2	☐	5.000	4.570	8049.75	0.0013	P	5.3
3	☐	250.000	248.528	443178.68	0.0701	P	2.1
4	☐	625.000	616.213	1114421.58	0.1738	P	1.8
5	☐	1250.000	1246.835	2250305.85	0.3516	A	5.1
6	☐	2500.000	2362.858	4450522.84	0.6663	A	1.1
7	☐	5000.000	5070.535	9039653.16	1.4298	A	2.7
8	☐			2555.86	0.0004	P	4.0

$$y = 2.8198E-004 * x + 6.1446E-006$$

$$R = 0.9994$$

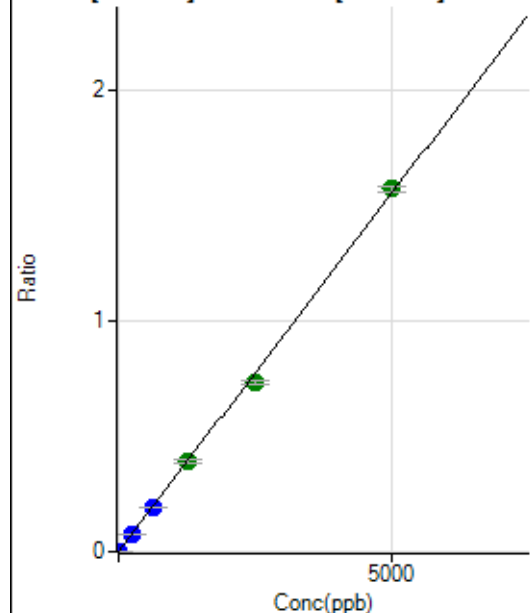
$$DL = 0.01645$$

$$BEC = 0.02179$$

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	41.67	0.0000	P	40.4
2	☐	5.000	4.600	8928.11	0.0014	P	8.7
3	☐	250.000	248.907	489455.01	0.0774	P	3.0
4	☐	625.000	618.924	1234486.55	0.1925	P	1.6
5	☐	1250.000	1259.677	2507417.05	0.3917	A	4.9
6	☐	2500.000	2365.331	4913155.45	0.7356	A	1.8
7	☐	5000.000	5065.730	9961194.49	1.5754	A	1.9
8	☐			3678.38	0.0006	P	13.9

$$y = 3.1098E-004 * x + 6.5902E-006$$

$$R = 0.9995$$

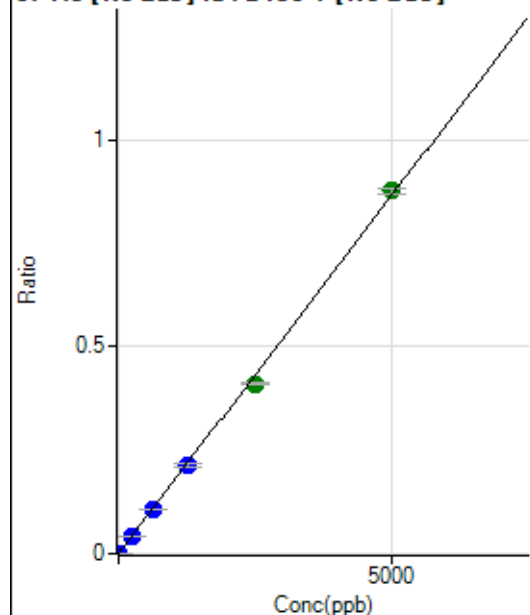
$$DL = 0.02571$$

$$BEC = 0.02119$$

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	19.44	0.0000	P	64.8
2	☐	5.000	4.463	4828.74	0.0008	P	1.9
3	☐	250.000	247.631	271021.34	0.0429	P	1.9
4	☐	625.000	622.000	690449.93	0.1076	P	0.7
5	☐	1250.000	1243.016	1376989.53	0.2151	P	4.7
6	☐	2500.000	2368.265	2737763.71	0.4099	A	1.2
7	☐	5000.000	5068.107	5546044.26	0.8771	A	1.8
8	☐			1550.12	0.0002	P	13.2

$$y = 1.7306\text{E-}004 * x + 3.0614\text{E-}006$$

$$R = 0.9995$$

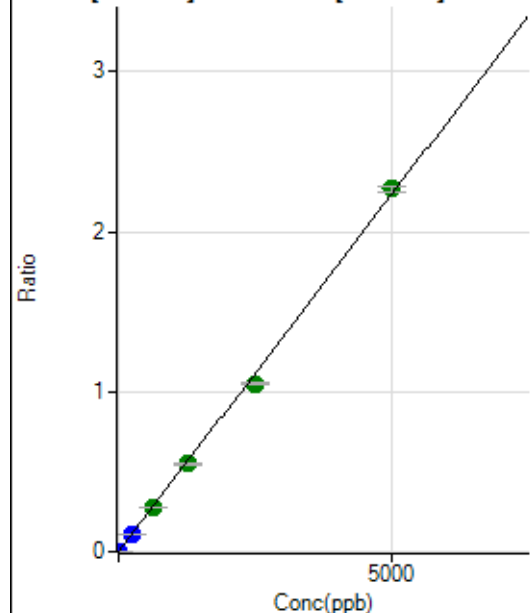
$$DL = 0.03438$$

$$BEC = 0.01769$$

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	41.67	0.0000	P	72.5
2	☐	5.000	4.434	12350.24	0.0020	P	4.8
3	☐	250.000	247.341	698185.86	0.1104	P	2.3
4	☐	625.000	614.970	1760774.15	0.2745	A	1.4
5	☐	1250.000	1229.078	3513434.89	0.5486	A	3.3
6	☐	2500.000	2353.066	7015555.89	1.0503	A	1.8
7	☐	5000.000	5080.085	14338525.49	2.2676	A	1.9
8	☐			3789.51	0.0006	P	6.4

$$y = 4.4637\text{E-}004 * x + 6.5964\text{E-}006$$

$$R = 0.9994$$

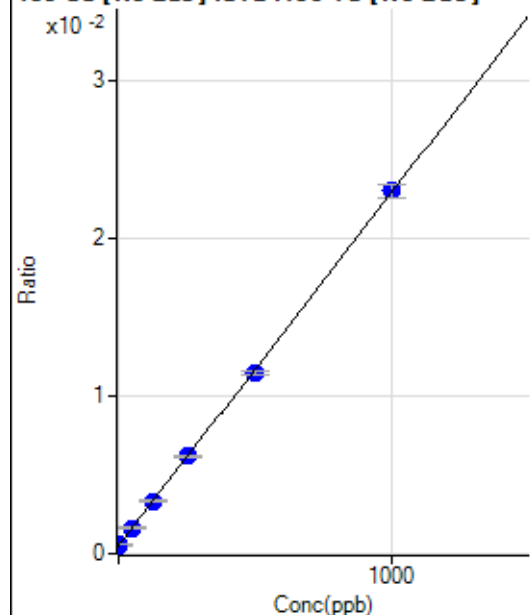
$$DL = 0.03212$$

$$BEC = 0.01478$$

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	1936.30	0.0005	P	12.7
2	☐	1.000	3.213	2166.90	0.0006	P	6.8
3	☐	50.000	49.955	6184.92	0.0016	P	7.1
4	☐	125.000	126.392	12839.56	0.0033	P	3.3
5	☐	250.000	253.202	23976.90	0.0062	P	2.5
6	☐	500.000	488.355	46083.16	0.0114	P	1.9
7	☐	1000.000	1004.848	89145.69	0.0230	P	3.7
8	☐			1850.17	0.0005	P	1.7

$$y = 2.2342\text{E-}005 * x + 5.1141\text{E-}004$$

$$R = 0.9999$$

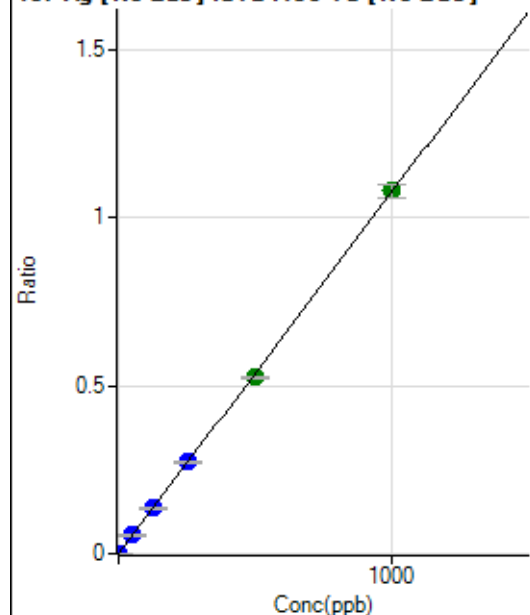
$$DL = 8.735$$

$$BEC = 22.89$$

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	52.78	0.0000	P	8.2
2	☐	1.000	0.951	3839.52	0.0010	P	11.2
3	☐	50.000	50.981	208571.62	0.0548	P	3.0
4	☐	125.000	126.734	524798.79	0.1363	P	2.9
5	☐	250.000	254.317	1062947.74	0.2735	P	2.6
6	☐	500.000	488.569	2119981.34	0.5255	A	1.1
7	☐	1000.000	1004.370	4193573.96	1.0802	A	4.0
8	☐			2077.99	0.0005	P	3.1

$$y = 0.0011 * x + 1.3949\text{E-}005$$

$$R = 0.9999$$

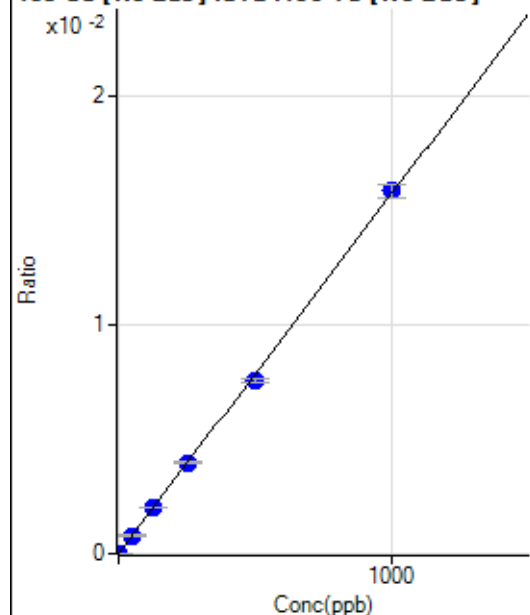
$$DL = 0.003182$$

$$BEC = 0.01297$$

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	11.11	0.0000	P	141.3
2	☐	1.000	0.744	54.17	0.0000	P	10.6
3	☐	50.000	50.253	3019.82	0.0008	P	2.2
4	☐	125.000	128.347	7789.78	0.0020	P	1.5
5	☐	250.000	252.618	15464.33	0.0040	P	2.3
6	☐	500.000	480.796	30542.18	0.0076	P	1.8
7	☐	1000.000	1008.517	61638.37	0.0159	P	3.7
8	☐			76.39	0.0000	P	21.2

$$y = 1.5740E-005 * x + 2.9162E-006$$

$$R = 0.9997$$

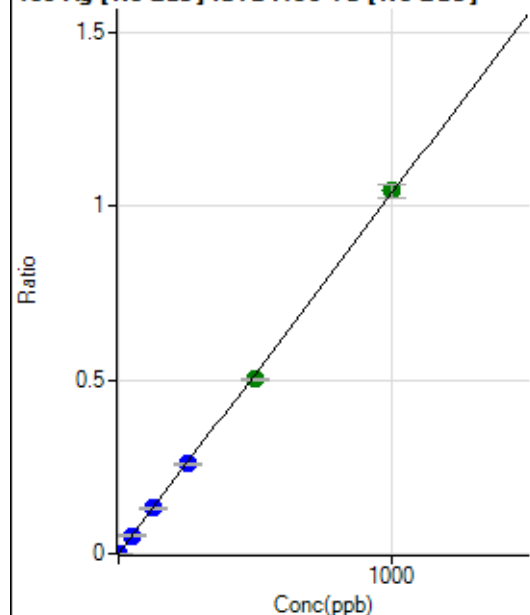
$$DL = 0.7852$$

$$BEC = 0.1853$$

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	13.89	0.0000	P	70.7
2	☐	1.000	0.925	3567.22	0.0010	P	4.8
3	☐	50.000	50.115	197307.93	0.0519	P	3.7
4	☐	125.000	125.993	502220.74	0.1304	P	2.3
5	☐	250.000	249.416	1003319.09	0.2582	P	3.4
6	☐	500.000	484.006	2021577.02	0.5011	A	1.1
7	☐	1000.000	1008.013	4052002.52	1.0436	A	3.5
8	☐			1883.51	0.0005	P	11.9

$$y = 0.0010 * x + 3.6948E-006$$

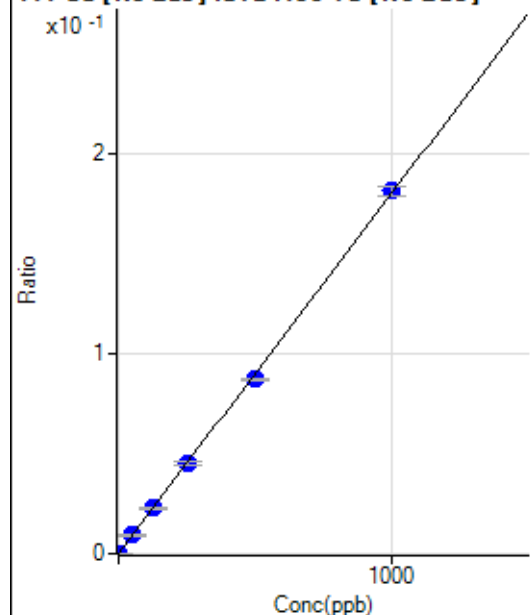
$$R = 0.9998$$

$$DL = 0.007573$$

$$BEC = 0.003569$$

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	185.95	0.0000	P	8.7
2	☐	1.000	1.111	925.08	0.0002	P	2.7
3	☐	50.000	51.065	35176.37	0.0092	P	3.2
4	☐	125.000	126.405	87874.86	0.0228	P	1.9
5	☐	250.000	250.794	175783.84	0.0452	P	2.3
6	☐	500.000	484.636	352466.50	0.0874	P	0.9
7	☐	1000.000	1007.255	704917.89	0.1815	P	2.6
8	☐			443.91	0.0001	P	8.2

$$y = 1.8017\text{E-}004 * x + 4.9130\text{E-}005$$

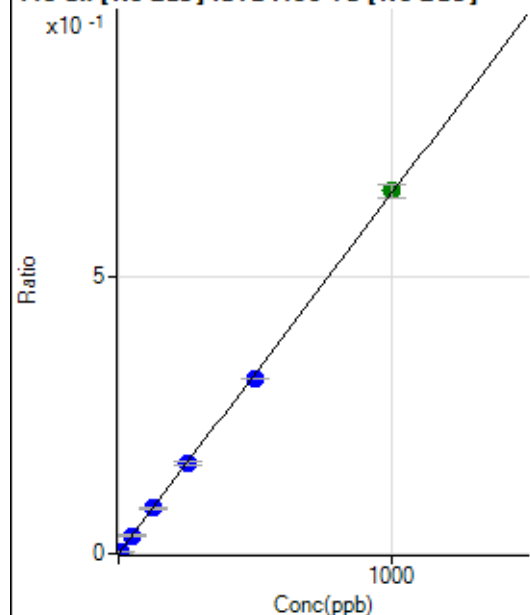
$$R = 0.9998$$

$$DL = 0.07157$$

$$BEC = 0.2727$$

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	319.46	0.0001	P	6.2
2	☐	5.000	4.727	11741.50	0.0032	P	4.7
3	☐	50.000	50.197	124734.96	0.0328	P	3.7
4	☐	125.000	125.745	315871.06	0.0820	P	3.0
5	☐	250.000	250.103	633741.32	0.1631	P	3.2
6	☐	500.000	485.607	1277356.91	0.3166	P	0.5
7	☐	1000.000	1007.069	2548720.54	0.6565	A	4.0
8	☐			522.25	0.0001	P	17.2

$$y = 6.5184\text{E-}004 * x + 8.4460\text{E-}005$$

$$R = 0.9998$$

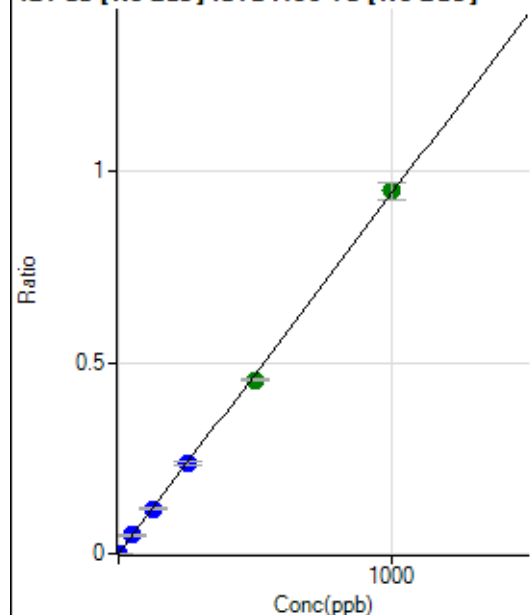
$$DL = 0.02397$$

$$BEC = 0.1296$$

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	8.33	0.0000	P	173.2
2	☐	2.000	1.932	6765.74	0.0018	P	1.9
3	☐	50.000	50.814	182170.76	0.0479	P	2.5
4	☐	125.000	125.476	455402.12	0.1183	P	1.9
5	☐	250.000	250.263	916489.22	0.2359	P	3.7
6	☐	500.000	483.279	1837885.98	0.4556	A	0.4
7	☐	1000.000	1008.194	3688634.20	0.9504	A	5.0
8	☐			2330.82	0.0006	P	3.9

$$y = 9.4263\text{E-}004 * x + 2.1941\text{E-}006$$

$$R = 0.9998$$

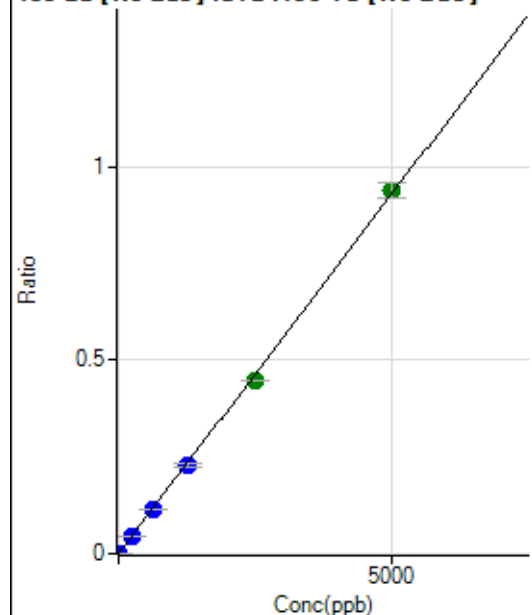
$$DL = 0.01209$$

$$BEC = 0.002328$$

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	8.33	0.0000	P	1.4
2	☐	10.000	9.260	6376.67	0.0017	P	8.1
3	☐	250.000	246.988	174314.06	0.0458	P	2.6
4	☐	625.000	621.639	444155.15	0.1154	P	2.0
5	☐	1250.000	1238.774	893060.08	0.2299	P	3.8
6	☐	2500.000	2406.852	1801904.16	0.4466	A	0.3
7	☐	5000.000	5049.953	3637788.28	0.9371	A	4.2
8	☐			6304.42	0.0016	P	6.2

$$y = 1.8557\text{E-}004 * x + 2.2028\text{E-}006$$

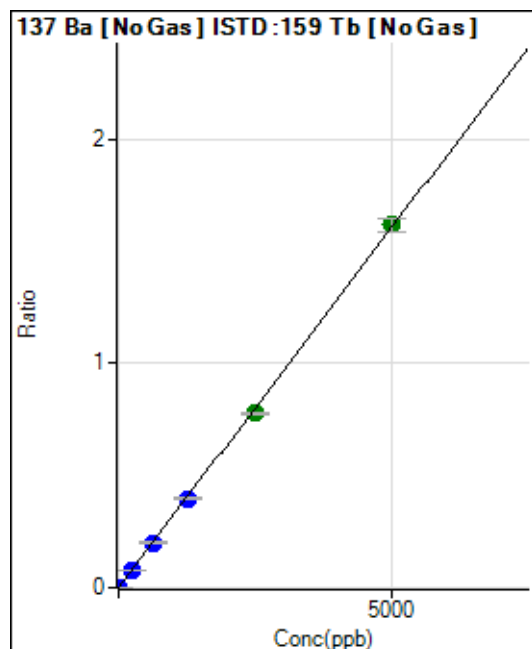
$$R = 0.9997$$

$$DL = 0.0004888$$

$$BEC = 0.01187$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	33.7
2	☐	10.000	9.397	11188.22	0.0030	P	6.3
3	☐	250.000	248.821	303519.30	0.0798	P	2.9
4	☐	625.000	626.589	773847.31	0.2010	P	1.6
5	☐	1250.000	1242.425	1548401.50	0.3985	P	3.1
6	☐	2500.000	2420.407	3132089.39	0.7763	A	1.0
7	☐	5000.000	5041.552	6278161.08	1.6171	A	3.6
8	☐			11079.79	0.0028	P	0.6

$$y = 3.2075E-004 * x + 3.6618E-006$$

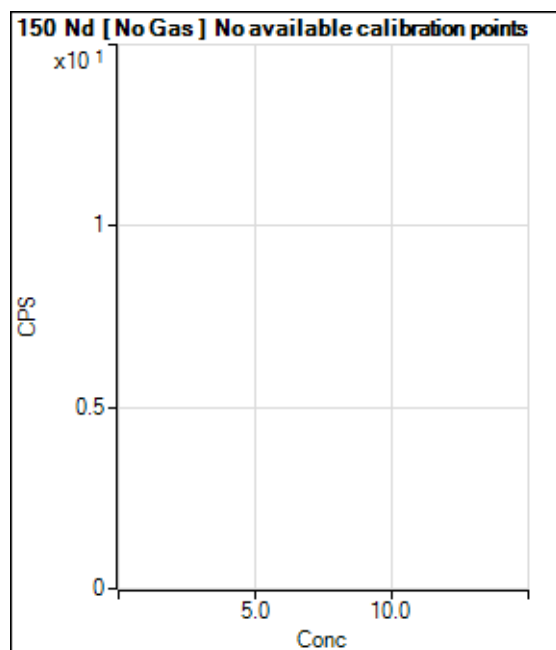
$$R = 0.9998$$

$$DL = 0.01154$$

$$BEC = 0.01142$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐			8.89		P	86.6
3	☐			17.78		P	43.3
4	☐			28.89		P	53.3
5	☐			22.22		P	105.4
6	☐			71.11		P	14.3
7	☐			122.22		P	3.2
8	☐			11.11		P	34.6

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	☐			5.55		P	69.3
5	☐			5.55		P	124.9
6	☐			7.78		P	24.7
7	☐			10.00		P	33.3
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	114.6
2	☐			8.33		P	0.0
3	☐			19.45		P	24.7
4	☐			19.44		P	65.5
5	☐			36.11		P	13.3
6	☐			55.56		P	43.3
7	☐			63.89		P	32.8
8	☐			205.56		P	24.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			7.78		P	49.5
4	☐			2.22		P	86.6
5	☐			10.00		P	57.7
6	☐			8.89		P	142.0
7	☐			26.67		P	25.0
8	☐			91.11		P	9.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.34		P	75.6
2	☐			52.78		P	18.2
3	☐			30.56		P	41.7
4	☐			52.78		P	59.8
5	☐			50.00		P	33.3
6	☐			80.56		P	11.9
7	☐			83.34		P	20.0
8	☐			205.56		P	28.8

160 Gd [He] No available calibration points

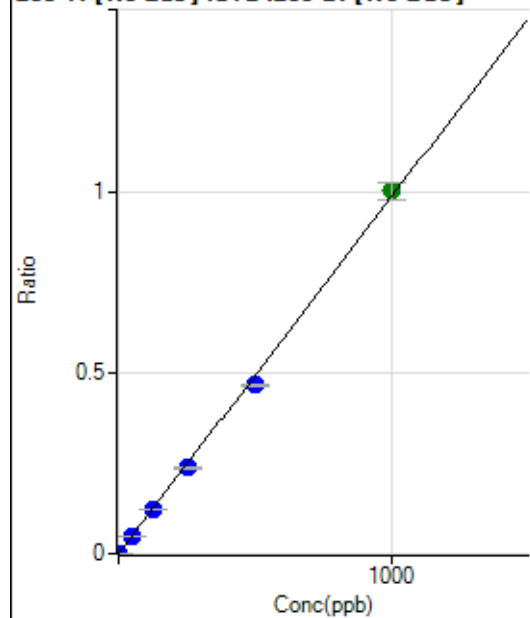
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.55		P	24.8
2	☐			16.67		P	40.0
3	☐			18.89		P	27.0
4	☐			11.11		P	96.4
5	☐			13.33		P	25.0
6	☐			23.33		P	24.7
7	☐			58.89		P	18.2
8	☐			135.56		P	7.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	24.7
2	☐			16.67		P	NaN
3	☐			19.45		P	24.7
4	☐			25.00		P	57.7
5	☐			16.67		P	NaN
6	☐			52.78		P	24.1
7	☐			44.45		P	75.8
8	☐			33.33		P	0.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			8.89		P	78.1
3	☐			10.00		P	57.8
4	☐			7.78		P	65.5
5	☐			10.00		P	57.8
6	☐			13.34		P	43.3
7	☐			15.55		P	44.6
8	☐			24.44		P	51.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.78	0.0000	P	39.5
2	☐	1.000	0.910	1702.94	0.0009	P	6.2
3	☐	50.000	48.227	89508.10	0.0475	P	1.0
4	☐	125.000	124.345	231088.67	0.1225	P	1.9
5	☐	250.000	241.537	461706.13	0.2379	P	2.8
6	☐	500.000	471.468	933970.88	0.4644	P	1.3
7	☐	1000.000	1016.553	1902512.61	1.0013	A	4.5
8	☐			905.62	0.0005	P	14.0

$$y = 9.8501E-004 * x + 2.7787E-005$$

$$R = 0.9994$$

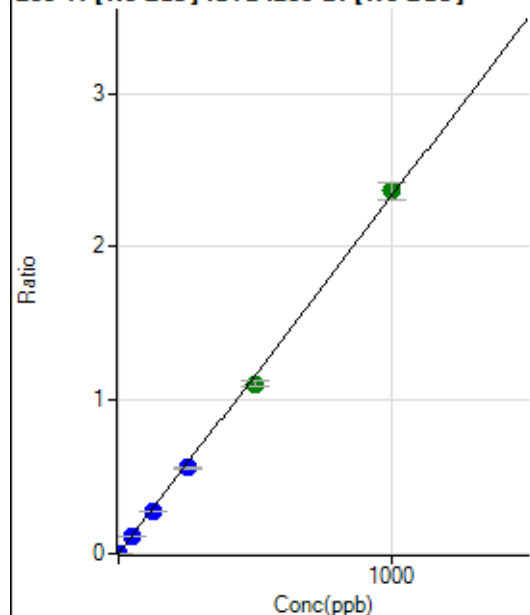
$$DL = 0.03342$$

$$BEC = 0.02821$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.89	0.0001	P	18.1
2	☐	1.000	0.882	3889.58	0.0021	P	6.0
3	☐	50.000	48.168	211511.39	0.1123	P	0.7
4	☐	125.000	120.350	529233.72	0.2805	P	0.9
5	☐	250.000	240.528	1088010.78	0.5606	P	1.9
6	☐	500.000	476.057	2230917.22	1.1095	A	2.5
7	☐	1000.000	1015.012	4494239.99	2.3655	A	4.6
8	☐			2228.03	0.0012	P	2.6

$$y = 0.0023 * x + 5.9960E-005$$

$$R = 0.9995$$

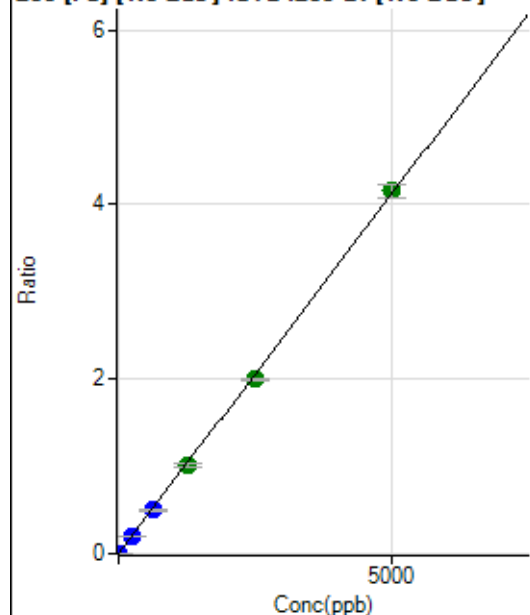
$$DL = 0.01394$$

$$BEC = 0.02573$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	170.38	0.0001	P	15.3
2	☐	1.000	0.847	1451.96	0.0008	P	2.8
3	☐	250.000	239.566	371835.98	0.1974	P	0.5
4	☐	625.000	604.916	940267.67	0.4984	P	1.2
5	☐	1250.000	1233.468	1971739.41	1.0162	A	3.5
6	☐	2500.000	2425.546	4018485.56	1.9983	A	1.4
7	☐	5000.000	5044.392	7897014.70	4.1557	A	4.0
8	☐			2885.56	0.0015	P	5.3

$$y = 8.2381E-004 * x + 8.9736E-005$$

$$R = 0.9998$$

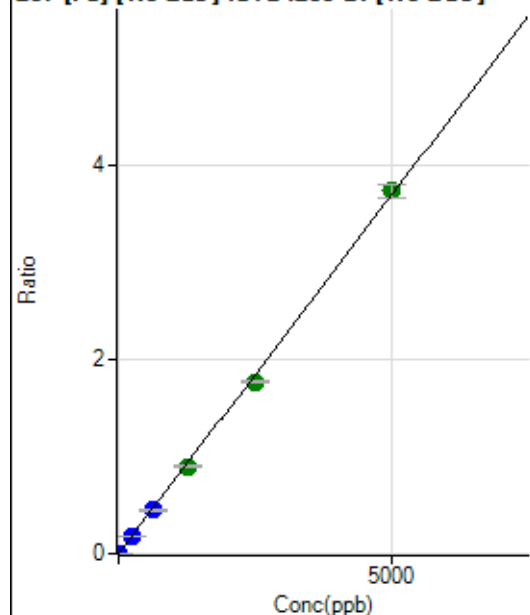
$$DL = 0.05011$$

$$BEC = 0.1089$$

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	129.63	0.0001	P	20.5
2	☐	1.000	0.802	1218.60	0.0007	P	0.3
3	☐	250.000	237.787	331333.66	0.1759	P	0.8
4	☐	625.000	604.154	842954.63	0.4469	P	2.0
5	☐	1250.000	1216.412	1745732.30	0.8997	A	3.2
6	☐	2500.000	2400.573	3570533.04	1.7755	A	0.7
7	☐	5000.000	5061.327	7113888.47	3.7433	A	3.7
8	☐			2450.28	0.0013	P	5.9

$$y = 7.3958\text{E-}004 * x + 6.8303\text{E-}005$$

$$R = 0.9997$$

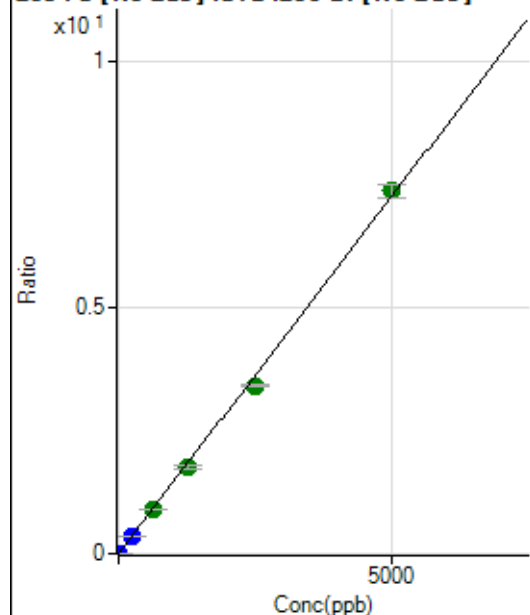
$$DL = 0.05684$$

$$BEC = 0.09235$$

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	346.68	0.0002	P	5.3
2	☐	1.000	0.826	2547.43	0.0014	P	2.1
3	☐	250.000	241.450	660771.66	0.3508	P	0.5
4	☐	625.000	618.836	1695377.29	0.8989	A	3.3
5	☐	1250.000	1221.087	3439628.68	1.7736	A	5.1
6	☐	2500.000	2354.318	6876579.67	3.4194	A	0.6
7	☐	5000.000	5081.267	14024367.91	7.3798	A	4.1
8	☐			4862.97	0.0026	P	2.4

$$y = 0.0015 * x + 1.8259\text{E-}004$$

$$R = 0.9994$$

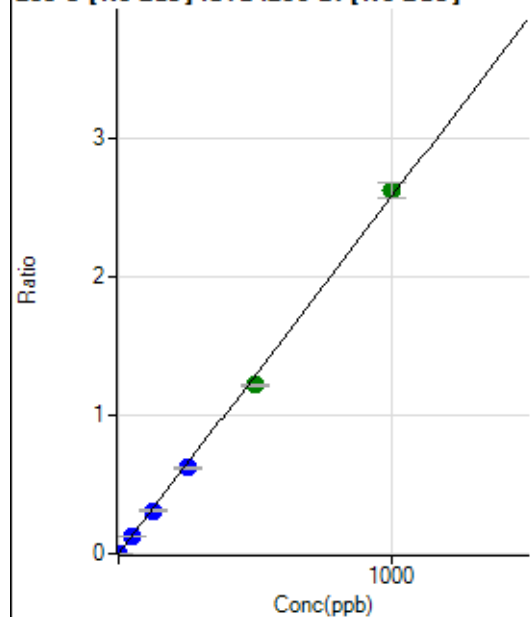
$$DL = 0.0198$$

$$BEC = 0.1257$$

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	21.9
2	☐	1.000	0.870	4150.79	0.0023	P	6.7
3	☐	50.000	47.768	232038.61	0.1232	P	1.4
4	☐	125.000	120.934	588344.72	0.3119	P	3.3
5	☐	250.000	240.178	1201902.24	0.6195	P	3.6
6	☐	500.000	472.856	2452848.17	1.2197	A	0.7
7	☐	1000.000	1016.647	4982747.03	2.6224	A	4.2
8	☐			441.69	0.0002	P	11.2

$$y = 0.0026 * x + 1.1711E-005$$

$$R = 0.9994$$

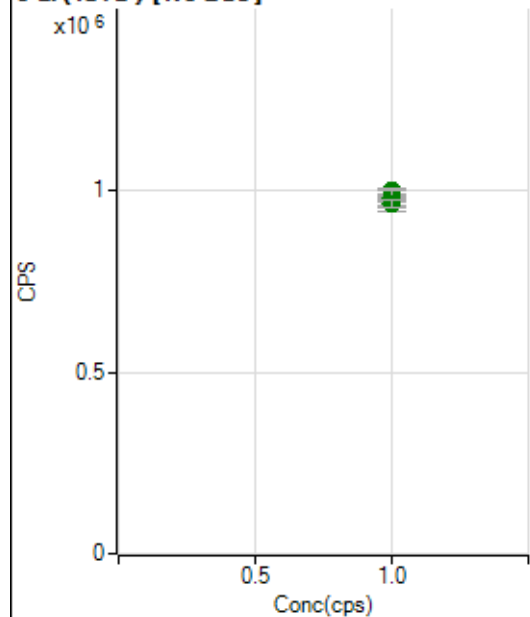
$$DL = 0.002986$$

$$BEC = 0.00454$$

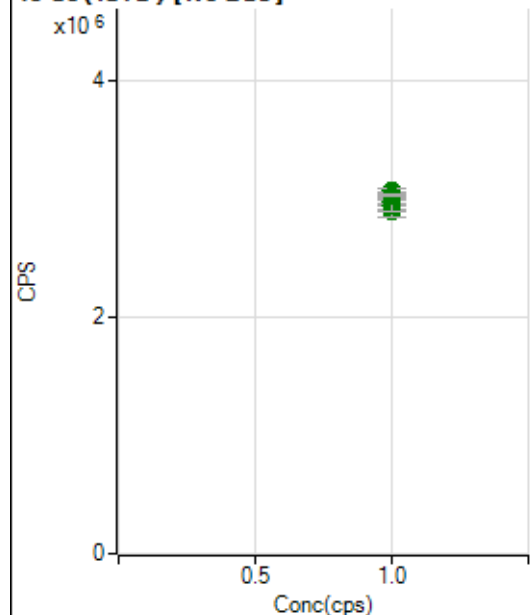
Weight: <None>

Min Conc: 0

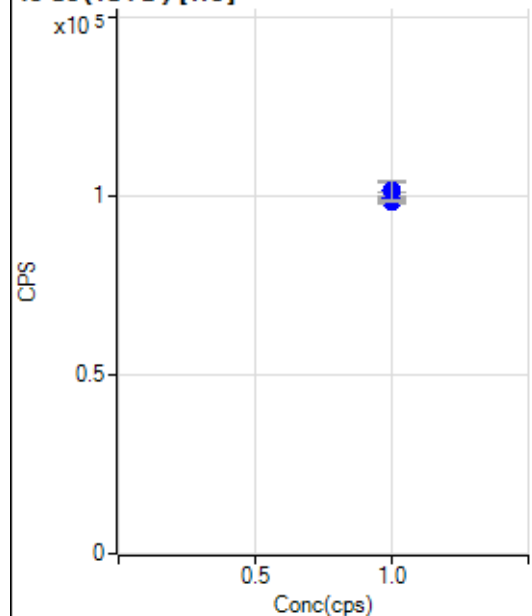
6 Li (ISTD) [No Gas]



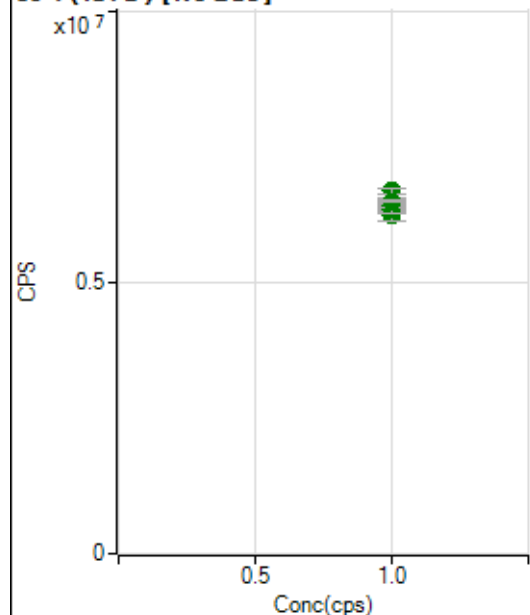
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		981971.68		A	1.5
2	☐	1.000		962101.35		A	3.6
3	☐	1.000		966852.48		A	2.2
4	☐	1.000		976450.51		A	1.6
5	☐	1.000		977842.05		A	4.4
6	☐	1.000		999159.21		A	1.8
7	☐	1.000		980225.67		A	4.3
8	☐	1.000		963875.91		A	2.1

45 Sc (ISTD) [No Gas]

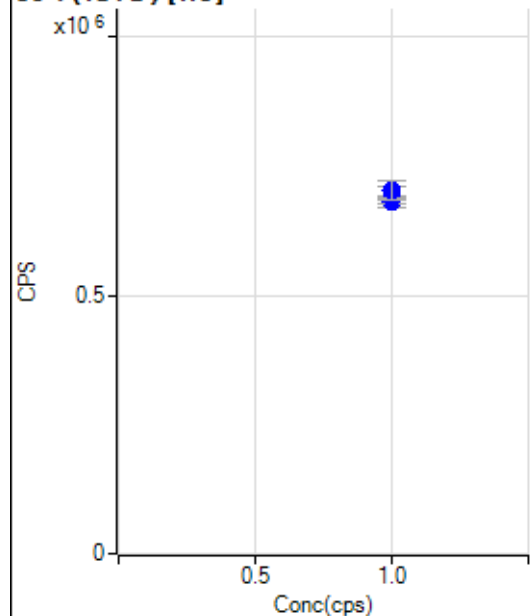
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2964042.35		A	1.3
2	☐	1.000		2888335.51		A	3.5
3	☐	1.000		2977767.66		A	1.6
4	☐	1.000		2976014.99		A	1.1
5	☐	1.000		2968264.50		A	3.8
6	☐	1.000		3064721.13		A	0.9
7	☐	1.000		2946982.73		A	4.2
8	☐	1.000		3026911.66		A	0.5

45 Sc (ISTD) [He]

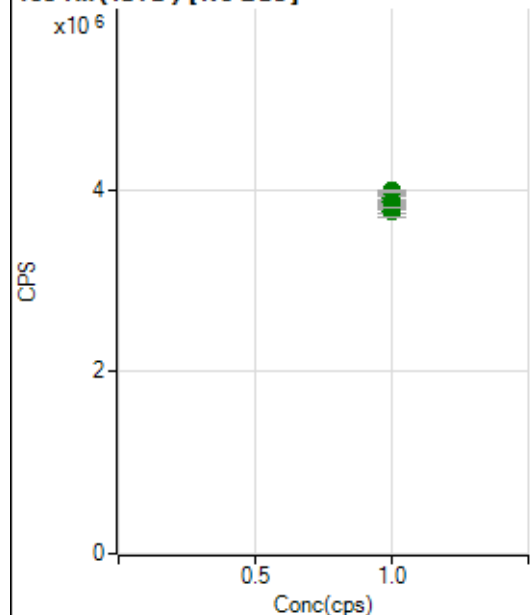
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		100790.16		P	5.6
2	☐	1.000		99169.08		P	1.2
3	☐	1.000		98914.32		P	1.7
4	☐	1.000		99728.54		P	0.4
5	☐	1.000		99588.95		P	3.0
6	☐	1.000		98613.01		P	1.9
7	☐	1.000		99314.85		P	0.9
8	☐	1.000		101403.76		P	5.9

89 Y (ISTD) [No Gas]

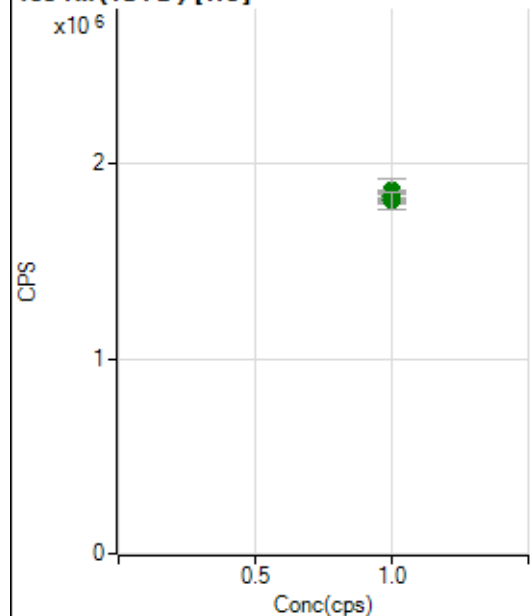
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6332723.03		A	0.7
2	☐	1.000		6225358.17		A	3.7
3	☐	1.000		6325284.00		A	2.1
4	☐	1.000		6414339.69		A	1.2
5	☐	1.000		6410511.57		A	4.7
6	☐	1.000		6680435.73		A	1.5
7	☐	1.000		6324789.14		A	2.1
8	☐	1.000		6486842.75		A	0.5

89 Y (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		688793.08		P	5.9
2	☐	1.000		686603.66		P	0.9
3	☐	1.000		679564.39		P	1.4
4	☐	1.000		686415.29		P	0.9
5	☐	1.000		688342.94		P	1.0
6	☐	1.000		681332.47		P	1.4
7	☐	1.000		688331.62		P	0.3
8	☐	1.000		701516.83		P	5.5

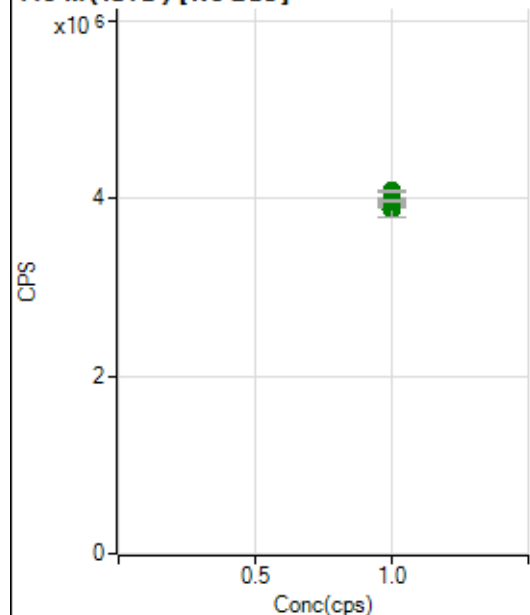
103 Rh (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3880982.72		A	2.6
2	☐	1.000		3814367.06		A	3.7
3	☐	1.000		3845294.79		A	0.5
4	☐	1.000		3907871.83		A	1.8
5	☐	1.000		3866841.89		A	4.1
6	☐	1.000		3989232.55		A	0.7
7	☐	1.000		3762166.45		A	3.0
8	☐	1.000		3806222.66		A	0.4

103 Rh (ISTD) [He]

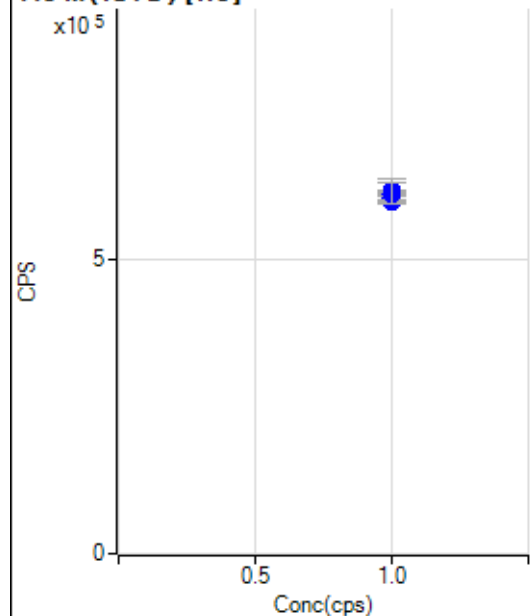
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1860483.06		A	6.6
2	☐	1.000		1854200.82		A	0.7
3	☐	1.000		1831238.39		A	1.1
4	☐	1.000		1833558.01		A	1.1
5	☐	1.000		1849064.21		A	0.5
6	☐	1.000		1836863.55		A	3.3
7	☐	1.000		1830119.68		A	2.1
8	☐	1.000		1809562.86		A	5.4

115 In (ISTD) [No Gas]

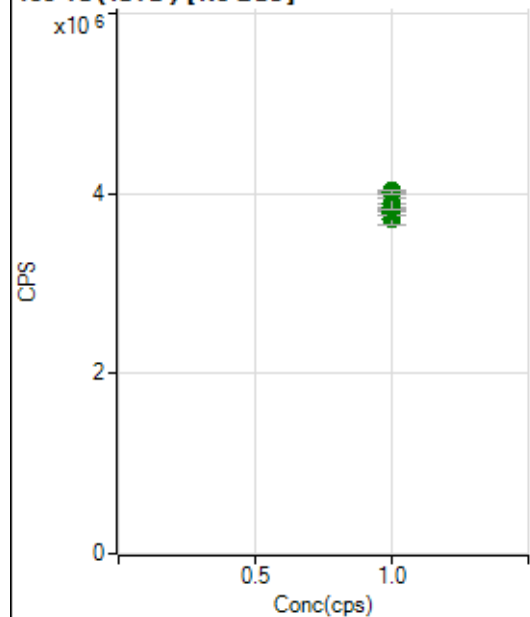


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3936378.60		A	0.7
2	☐	1.000		3870148.34		A	3.9
3	☐	1.000		3952953.03		A	1.4
4	☐	1.000		3968160.22		A	2.1
5	☐	1.000		3983458.45		A	4.4
6	☐	1.000		4088770.95		A	0.4
7	☐	1.000		3870402.04		A	3.8
8	☐	1.000		3976113.59		A	0.1

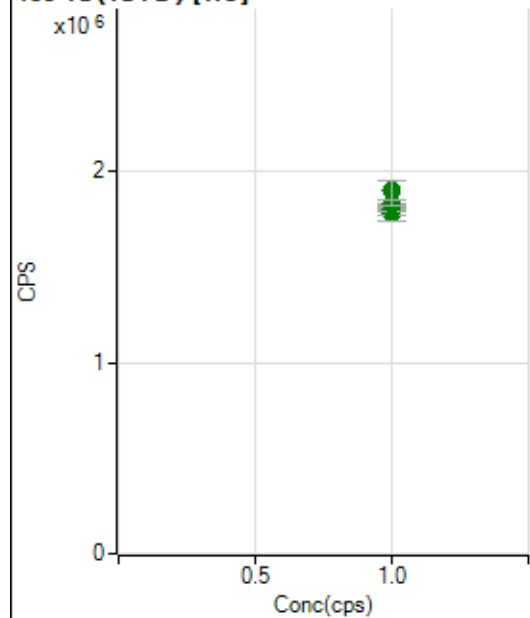
115 In (ISTD) [He]



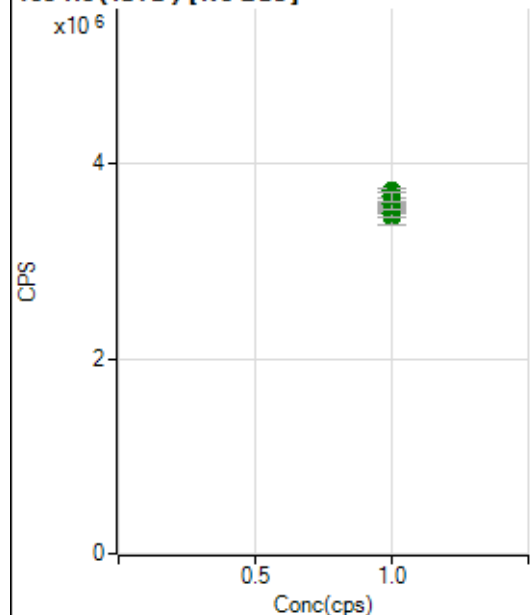
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		614971.86		P	6.3
2	☐	1.000		610533.56		P	1.4
3	☐	1.000		607396.67		P	2.5
4	☐	1.000		608705.55		P	0.7
5	☐	1.000		610934.89		P	0.8
6	☐	1.000		604324.92		P	1.1
7	☐	1.000		597638.65		P	0.4
8	☐	1.000		610644.17		P	5.6

159 Tb (ISTD) [No Gas]

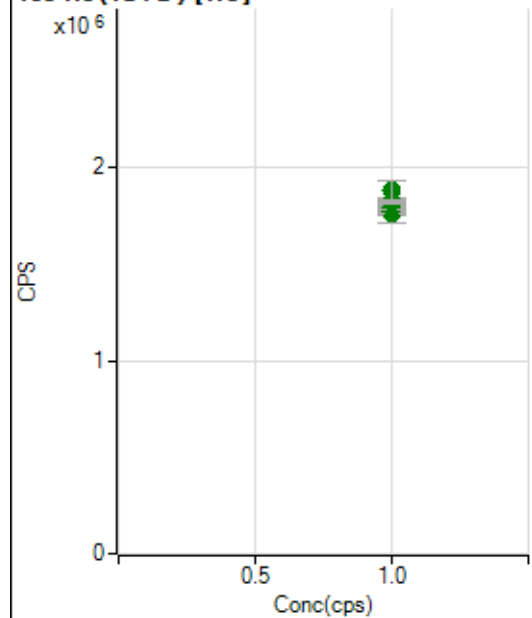
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3781993.24		A	1.4
2	☐	1.000		3712258.76		A	3.0
3	☐	1.000		3804736.96		A	2.6
4	☐	1.000		3851038.48		A	1.7
5	☐	1.000		3887988.13		A	3.2
6	☐	1.000		4034366.92		A	0.3
7	☐	1.000		3885368.00		A	3.2
8	☐	1.000		4024545.77		A	1.3

159 Tb (ISTD) [He]

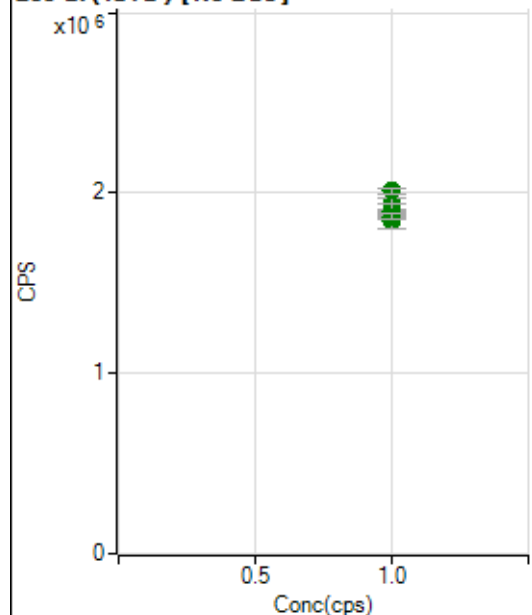
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1781177.39		A	5.3
2	☐	1.000		1796318.41		A	1.2
3	☐	1.000		1785911.33		A	2.3
4	☐	1.000		1805402.66		A	0.9
5	☐	1.000		1803960.36		A	1.6
6	☐	1.000		1819420.27		A	3.3
7	☐	1.000		1830602.65		A	1.6
8	☐	1.000		1896291.31		A	5.4

165 Ho (ISTD) [No Gas]

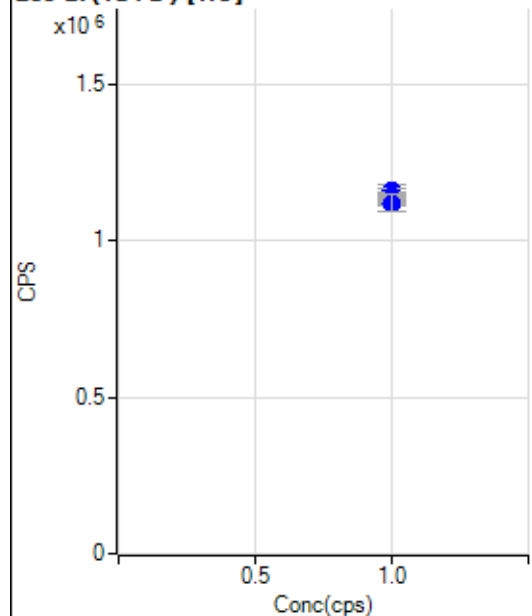
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3494501.38		A	0.6
2	☐	1.000		3459982.19		A	4.8
3	☐	1.000		3494056.72		A	2.2
4	☐	1.000		3579204.72		A	0.2
5	☐	1.000		3598201.64		A	3.1
6	☐	1.000		3724088.63		A	0.9
7	☐	1.000		3593345.74		A	2.9
8	☐	1.000		3666060.32		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1777867.11		A	7.7
2	☐	1.000		1764803.12		A	0.8
3	☐	1.000		1775880.30		A	2.0
4	☐	1.000		1773833.43		A	0.9
5	☐	1.000		1807988.81		A	0.7
6	☐	1.000		1796810.72		A	1.5
7	☐	1.000		1820479.82		A	0.8
8	☐	1.000		1878980.16		A	5.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1898554.76		A	0.5
2	☐	1.000		1842559.16		A	4.1
3	☐	1.000		1883288.70		A	1.4
4	☐	1.000		1886689.14		A	1.7
5	☐	1.000		1941646.45		A	3.5
6	☐	1.000		2011179.62		A	1.7
7	☐	1.000		1902378.27		A	4.2
8	☐	1.000		1870124.85		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1144019.79		P	5.9
2	☐	1.000		1116625.16		P	0.5
3	☐	1.000		1128759.59		P	0.4
4	☐	1.000		1135001.54		P	0.4
5	☐	1.000		1159164.74		P	1.9
6	☐	1.000		1141652.72		P	1.8
7	☐	1.000		1138822.70		P	0.4
8	☐	1.000		1119824.12		P	4.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8072420MS.b
Acq. Date-Time 2020-07-24 11:23:47
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		2438	24384.80			3.240	5.000
24		32722	327221.16			2.290	5.000
25		4275	42746.02			2.428	5.000
26		4880	48801.64			2.578	5.000
59		18726	187255.55			2.752	5.000
113		2609	26092.18			2.715	5.000
115		8337	83372.52			3.665	5.000
206		2006	20063.80			3.014	5.000
207		1690	16904.28			3.068	5.000
208		4132	41317.99			2.925	5.000
220		1	10.10			24.851	

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

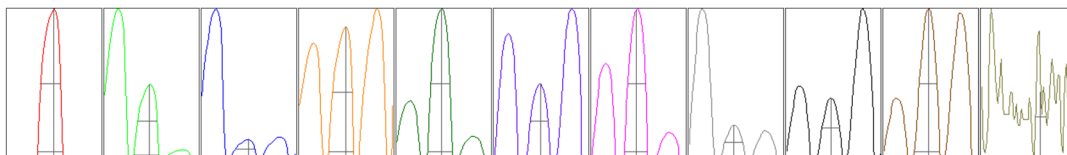
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2442	2468	2314	2437	2531
24	32608	32521	31762	32881	33839
25	4275	4233	4135	4312	4418
26	4869	4866	4704	4904	5058
59	18903	18717	17863	18922	19223
113	2640	2633	2492	2604	2678
115	8751	8432	7910	8234	8359
206	2007	2003	1909	2057	2056
207	1671	1688	1615	1742	1736
208	4134	4181	3930	4162	4252

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	4114.76	9.00	8.90 - 9.10	
24	55632.15	23.95	23.90 - 24.10	
25	7185.74	25.00	24.90 - 25.10	
26	8161.28	26.00	25.90 - 26.10	
59	32287.33	58.95	58.90 - 59.10	
113	4901.43	113.00	112.90 - 113.10	
115	15471.21	114.95	114.90 - 115.10	
206	3732.33	205.95	205.90 - 206.10	
207	3115.55	206.95	206.90 - 207.10	
208	7672.31	207.95	207.90 - 208.10	
220	1.15	220.40	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.788	0.900	
24	0.63	0.791	0.900	
25	0.62	0.815	0.900	
26	0.63	0.788	0.900	
59	0.61	0.784	0.900	
113	0.55	0.745	0.900	
115	0.56	0.737	0.900	
206	0.56	0.781	0.900	
207	0.56	0.785	0.900	
208	0.56	0.807	0.900	
220	0.34			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.7 V	Deflect	14.4 V
Extract 2	-220.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.2 mm
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EM

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

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4257	42568.21			3.109	
89		7496	74963.35			3.079	
205		5582	55818.79			3.318	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4374	4304	4030	4269	4306
89	7641	7631	7090	7574	7546
205	5670	5640	5264	5741	5594

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.7 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-220.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	-0.2 mm		
EM					
Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V