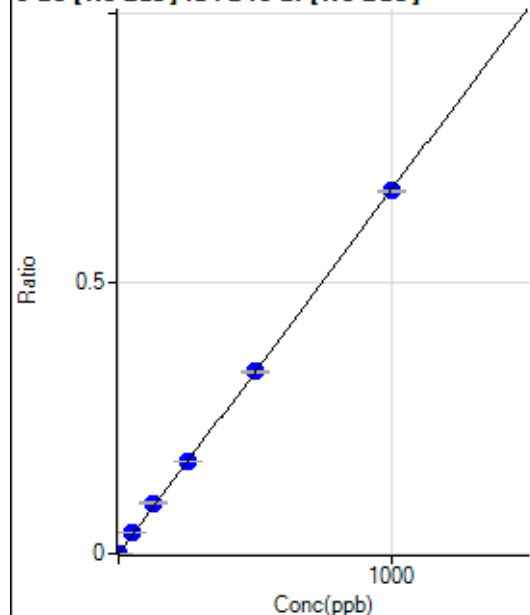


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7101320M .b\
Analysis File: P7101320M .batch.bin
DA Date-Time: 2020-10-13 23:53:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-10-13 09:50:35
2	004CALS.d	S02	2020-10-13 09:54:03
3	005CALS.d	S03	2020-10-13 09:57:31
4	006CALS.d	S04	2020-10-13 10:00:58
5	007CALS.d	S05	2020-10-13 10:04:22
6	008CALS.d	S06	2020-10-13 10:07:41
7	009CALS.d	S07	2020-10-13 10:10:57
8	010CALS.d	S08	2020-10-13 10:14:12

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	24.4
2	☐	1.000	1.075	2931.82	0.0007	P	6.9
3	☐	50.000	56.049	149382.77	0.0377	P	1.0
4	☐	125.000	139.740	358280.58	0.0941	P	0.9
5	☐	250.000	253.333	684127.08	0.1705	P	0.7
6	☐	500.000	499.756	1321312.89	0.3364	P	0.9
7	☐	1000.000	997.144	2607859.55	0.6712	P	0.8
8	☐			303.71	0.0001	P	7.0

$$y = 6.7308\text{E-}004 * x + 9.7613\text{E-}006$$

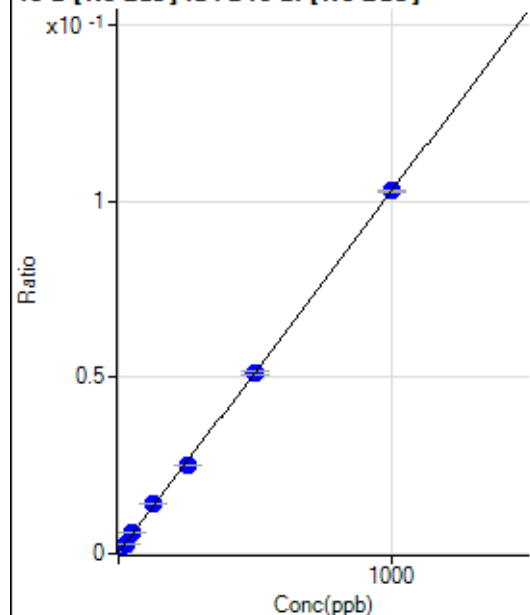
$$R = 0.9999$$

$$DL = 0.01062$$

$$BEC = 0.0145$$

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	1125.07	0.0003	P	6.0
2	☐	25.000	25.061	11387.88	0.0028	P	2.4
3	☐	50.000	55.175	23490.90	0.0059	P	2.8
4	☐	125.000	136.922	54490.29	0.0143	P	0.5
5	☐	250.000	241.608	100408.86	0.0250	P	0.9
6	☐	500.000	497.832	201373.06	0.0513	P	1.3
7	☐	1000.000	1001.432	399632.94	0.1028	P	0.7
8	☐			17210.19	0.0045	P	6.1

$$y = 1.0242\text{E-}004 * x + 2.8253\text{E-}004$$

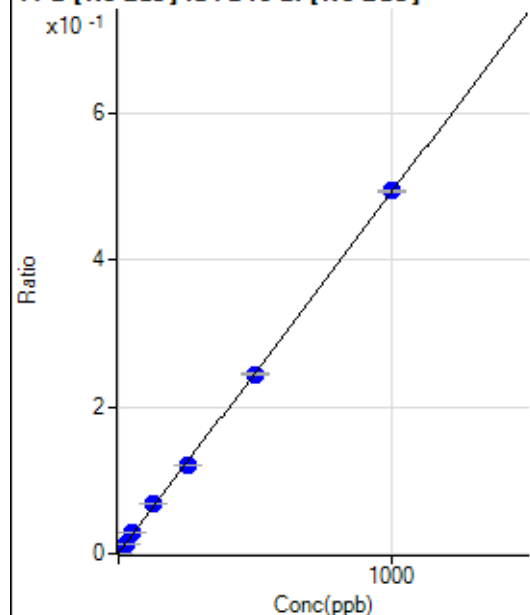
$$R = 0.9999$$

$$DL = 0.5005$$

$$BEC = 2.759$$

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	4987.04	0.0013	P	4.8
2	☐	25.000	25.356	54804.89	0.0137	P	1.2
3	☐	50.000	53.899	109807.25	0.0277	P	1.3
4	☐	125.000	134.485	256486.24	0.0673	P	0.6
5	☐	250.000	242.604	483299.08	0.1205	P	0.4
6	☐	500.000	493.815	958027.75	0.2439	P	1.0
7	☐	1000.000	1003.552	1921039.45	0.4944	P	0.7
8	☐			82820.76	0.0215	P	4.6

$$y = 4.9139\text{E-}004 * x + 0.0013$$

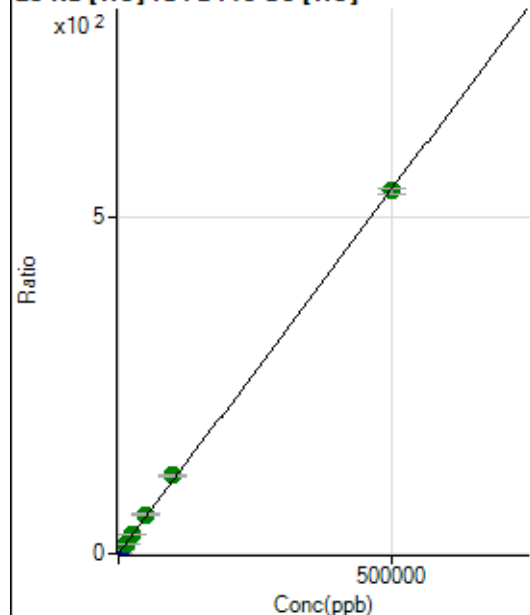
R = 0.9999

DL = 0.3676

BEC = 2.549

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	29420.13	0.0430	P	1.7
2	☐	500.000	572.818	454834.31	0.6642	P	2.3
3	☐	5000.000	5974.892	4370150.18	6.5221	P	1.4
4	☐	12500.000	13594.880	9526621.17	14.7850	A	1.7
5	☐	25000.000	27078.605	18384892.63	29.4065	A	0.9
6	☐	50000.000	53910.068	36511171.41	58.5019	A	0.8
7	☐	100000.00	107198.65	74603527.47	116.2868	A	1.3
8	☐	500000.00	498028.13	363197295.9	540.0933	A	1.4

$$y = 0.0011 * x + 0.0430$$

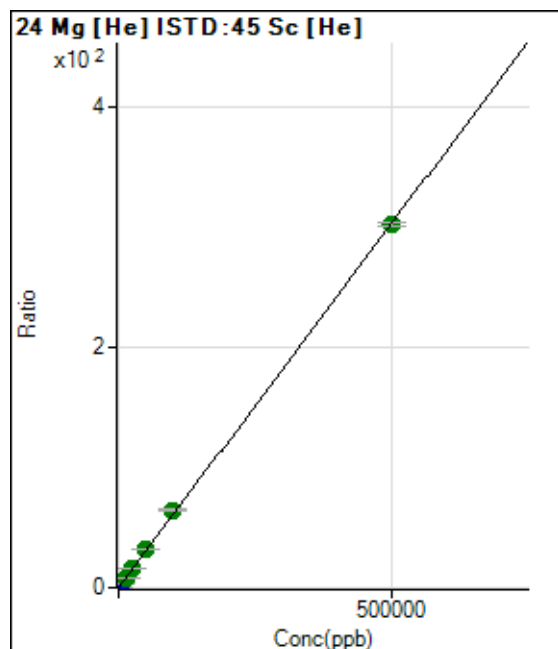
R = 0.9999

DL = 2.01

BEC = 39.69

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	519.47	0.0008	P	13.3
2	☐	500.000	561.374	233854.15	0.3415	P	4.3
3	☐	5000.000	5921.961	2409062.38	3.5954	P	2.5
4	☐	12500.000	13686.844	5353287.45	8.3086	A	2.7
5	☐	25000.000	27115.776	10290687.21	16.4599	A	0.7
6	☐	50000.000	53865.799	20406446.64	32.6971	A	0.5
7	☐	100000.00	106442.62	41452263.08	64.6110	A	1.1
8	☐	500000.00	498180.15	203352032.3	302.3939	A	1.0

$$y = 6.0700\text{E-}004 * x + 7.5995\text{E-}004$$

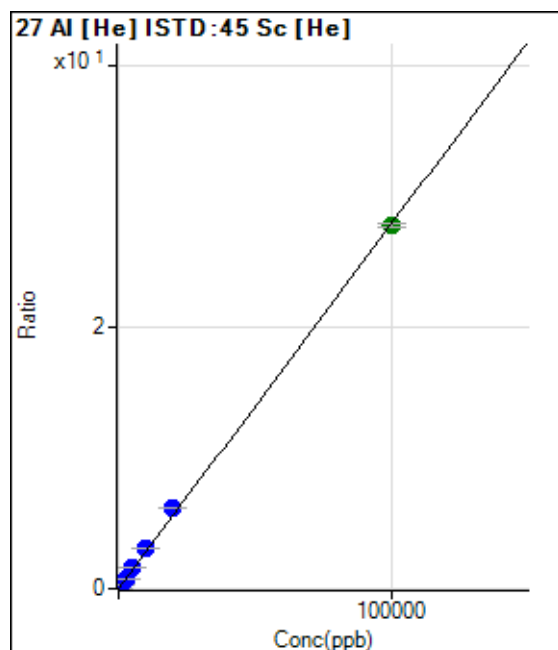
$$R = 0.9999$$

$$DL = 0.5006$$

$$BEC = 1.252$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	202.78	0.0003	P	38.5
2	☐	20.000	21.500	4306.29	0.0063	P	8.5
3	☐	1000.000	1157.309	216348.85	0.3229	P	2.8
4	☐	2500.000	2855.122	512963.80	0.7961	P	2.6
5	☐	5000.000	5686.993	991268.15	1.5855	P	1.2
6	☐	10000.000	11274.034	1961497.40	3.1429	P	0.1
7	☐	20000.000	22070.051	3947176.09	6.1522	P	0.6
8	☐	100000.00	99413.785	18635783.75	27.7113	A	1.1

$$y = 2.7874\text{E-}004 * x + 2.9614\text{E-}004$$

$$R = 0.9997$$

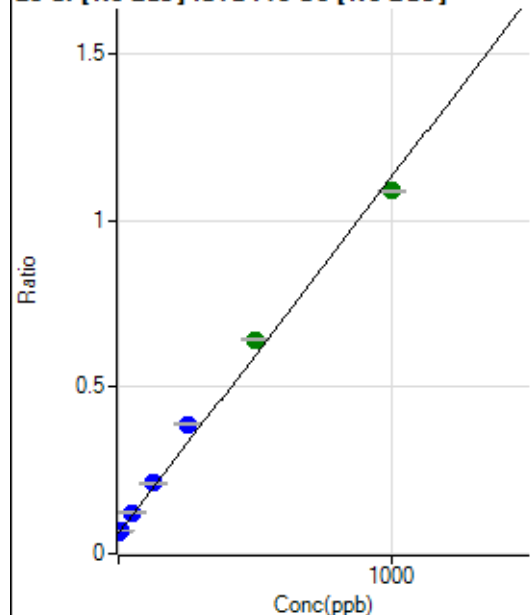
$$DL = 1.226$$

$$BEC = 1.062$$

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	670661.59	0.0609	P	0.8
2	☐	10.000	7.794	759997.67	0.0692	P	0.2
3	☐	50.000	58.791	1338093.27	0.1238	P	1.9
4	☐	125.000	140.783	2249977.11	0.2114	P	2.6
5	☐	250.000	307.116	3971493.71	0.3892	P	1.2
6	☐	500.000	544.018	6592616.55	0.6424	A	1.0
7	☐	1000.000	961.322	11581312.24	1.0884	A	0.6
8	☐			1637334.01	0.1521	P	1.3

$$y = 0.0011 * x + 0.0609$$

$$R = 0.9965$$

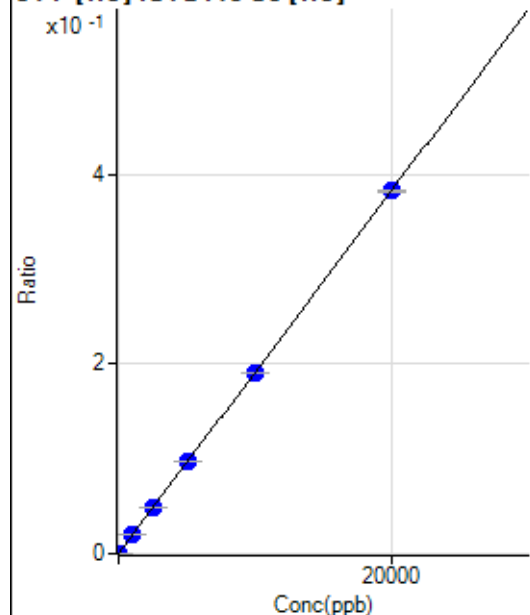
$$DL = 1.389$$

$$BEC = 56.99$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	2.452	169.45	0.0002	P	7.6
2	☐	0.000	-2.452	105.56	0.0002	P	29.5
3	☐	1000.000	1026.420	13300.69	0.0198	P	0.7
4	☐	2500.000	2524.360	31266.47	0.0485	P	1.9
5	☐	5000.000	5098.735	61147.51	0.0978	P	0.8
6	☐	10000.000	9949.837	118999.20	0.1907	P	0.2
7	☐	20000.000	19996.032	245723.32	0.3830	P	0.3
8	☐			266.68	0.0004	P	23.6

$$y = 1.9143E-005 * x + 2.0097E-004$$

$$R = 1.0000$$

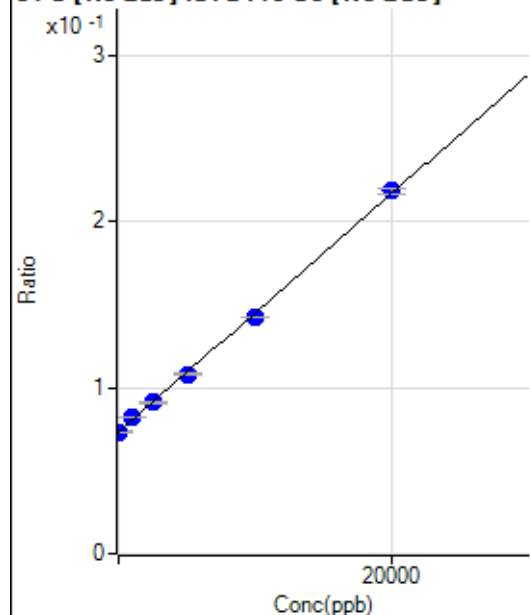
$$DL = 5.037$$

$$BEC = 10.5$$

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	8.010	808928.35	0.0735	P	0.9
2	☐	0.000	-8.010	805122.11	0.0734	P	0.1
3	☐	1000.000	1222.230	888828.87	0.0822	P	1.0
4	☐	2500.000	2501.500	972807.04	0.0914	P	1.0
5	☐	5000.000	4804.455	1101400.30	0.1079	P	0.9
6	☐	10000.000	9645.012	1464576.65	0.1427	P	0.4
7	☐	20000.000	20215.081	2326278.80	0.2186	P	1.5
8	☐			668328.30	0.0621	P	0.9

$$y = 7.1844\text{E-}006 * x + 0.0734$$

R = 0.9996

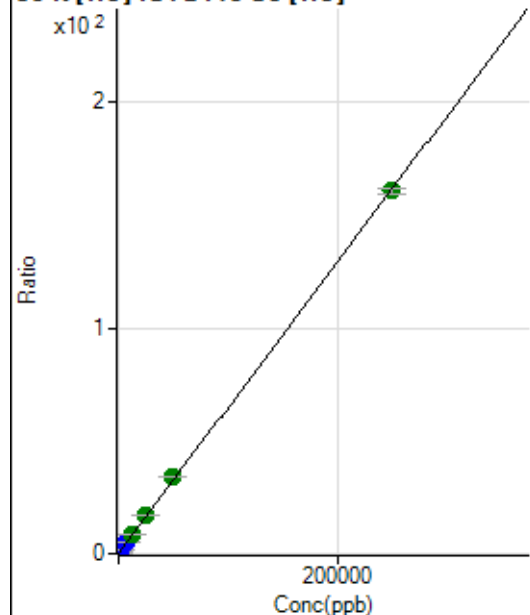
DL = 155.6

BEC = 1.022E+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	81235.57	0.1188	P	1.1
2	☐	500.000	547.781	323102.19	0.4718	P	1.4
3	☐	2500.000	2956.154	1355965.31	2.0237	P	1.2
4	☐	6250.000	7272.358	3095974.81	4.8048	P	1.4
5	☐	12500.000	13322.178	5441206.20	8.7031	A	1.4
6	☐	25000.000	26470.763	10719324.80	17.1754	A	0.4
7	☐	50000.000	52992.684	21984253.79	34.2650	A	0.2
8	☐	250000.00	249183.06	108050177.4	160.6815	A	1.7

$$y = 6.4436\text{E-}004 * x + 0.1188$$

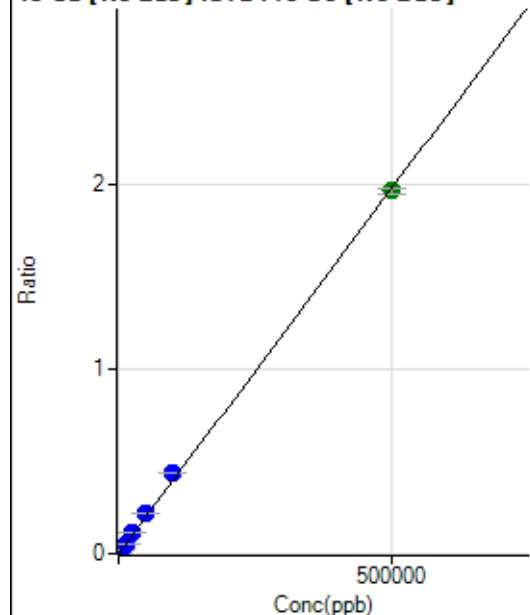
R = 0.9999

DL = 6.059

BEC = 184.4

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	366.68	0.0000	P	23.6
2	☐	500.000	539.355	23797.36	0.0022	P	2.2
3	☐	5000.000	5712.255	244873.09	0.0226	P	1.6
4	☐	12500.000	14210.688	599174.41	0.0563	P	1.5
5	☐	25000.000	28434.330	1149005.47	0.1126	P	0.7
6	☐	50000.000	56084.663	2278908.19	0.2221	P	0.5
7	☐	100000.00	110901.43	4671509.87	0.4391	P	1.0
8	☐	500000.00	496989.60	21180866.97	1.9675	A	1.4

$$y = 3.9587E-006 * x + 3.3274E-005$$

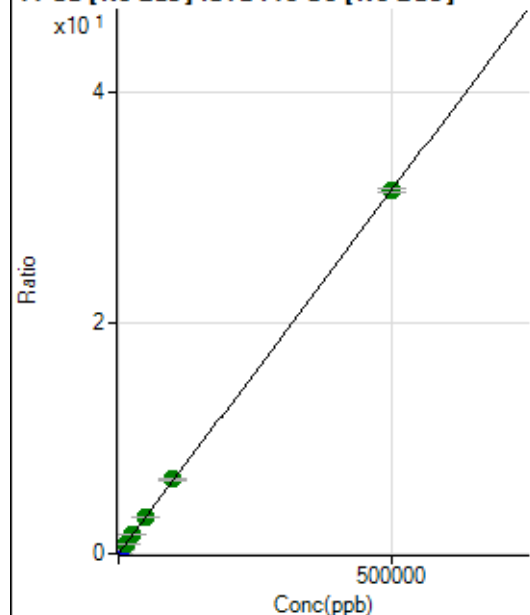
$$R = 0.9997$$

$$DL = 5.953$$

$$BEC = 8.405$$

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	22650.75	0.0021	P	3.3
2	☐	500.000	541.178	396761.34	0.0361	P	0.3
3	☐	5000.000	5670.483	3884986.08	0.3593	P	0.7
4	☐	12500.000	12788.660	8597986.94	0.8077	A	1.0
5	☐	25000.000	25923.218	16685999.93	1.6351	A	1.1
6	☐	50000.000	51412.368	33260672.51	3.2409	A	0.1
7	☐	100000.00	102330.85	68611172.16	6.4486	A	1.1
8	☐	500000.00	499332.47	338666633.1	31.4583	A	1.1

$$y = 6.2997E-005 * x + 0.0021$$

$$R = 1.0000$$

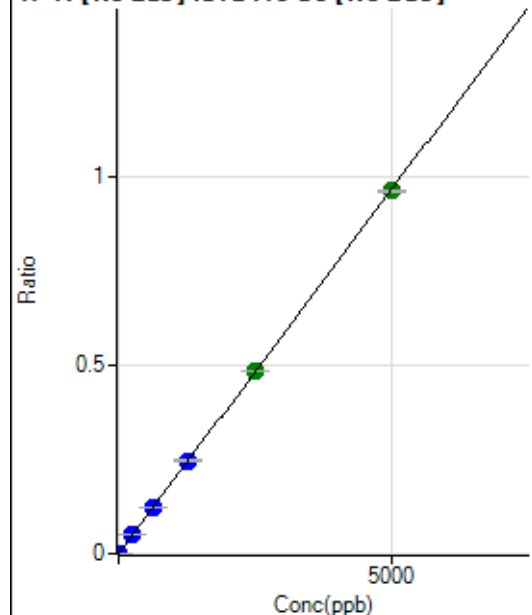
$$DL = 3.209$$

$$BEC = 32.66$$

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	197.23	0.0000	P	28.0
2	☐	5.000	4.956	10695.81	0.0010	P	3.2
3	☐	250.000	259.373	541573.73	0.0501	P	0.9
4	☐	625.000	639.749	1314770.25	0.1235	P	0.8
5	☐	1250.000	1279.301	2520205.22	0.2470	P	0.5
6	☐	2500.000	2515.380	4983208.40	0.4856	A	0.5
7	☐	5000.000	4982.673	10233858.65	0.9618	A	0.7
8	☐			1297.32	0.0001	P	5.9

$$y = 1.9303\text{E-}004 * x + 1.7909\text{E-}005$$

$$R = 1.0000$$

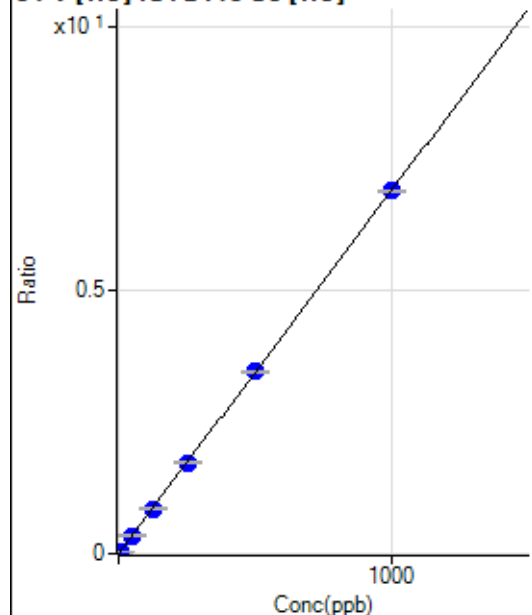
$$DL = 0.07794$$

$$BEC = 0.09278$$

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	13.33	0.0000	P	0.7
2	☐	5.000	4.704	22235.73	0.0325	P	3.6
3	☐	50.000	49.822	230309.14	0.3437	P	3.1
4	☐	125.000	123.704	549864.39	0.8534	P	2.7
5	☐	250.000	250.539	1080602.13	1.7284	P	1.0
6	☐	500.000	501.843	2160697.75	3.4621	P	0.7
7	☐	1000.000	999.116	4422307.54	6.8926	P	0.3
8	☐			887.82	0.0013	P	15.8

$$y = 0.0069 * x + 1.9501\text{E-}005$$

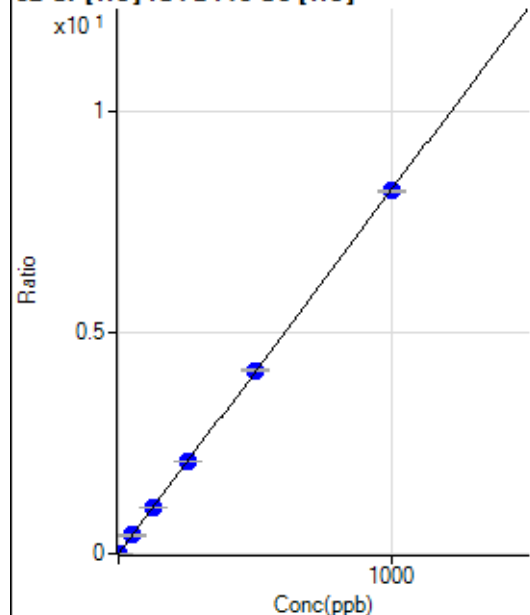
$$R = 1.0000$$

$$DL = 5.889\text{E-}05$$

$$BEC = 0.002827$$

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	1142.28	0.0017	P	7.2
2	☐	2.000	1.923	11961.60	0.0175	P	5.8
3	☐	50.000	50.337	278199.64	0.4152	P	2.8
4	☐	125.000	126.057	668304.40	1.0373	P	3.2
5	☐	250.000	252.874	1299828.90	2.0791	P	0.5
6	☐	500.000	503.949	2584868.17	4.1417	P	0.8
7	☐	1000.000	997.158	5256878.67	8.1935	P	0.5
8	☐			12715.58	0.0189	P	0.8

$$y = 0.0082 * x + 0.0017$$

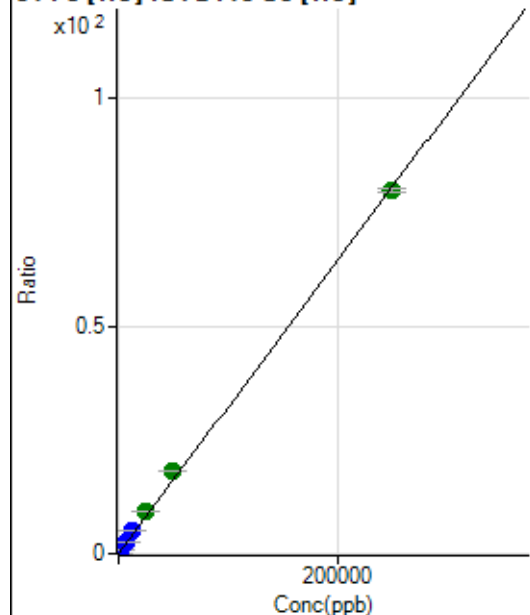
$$R = 1.0000$$

$$DL = 0.04387$$

$$BEC = 0.2034$$

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	1538.33	0.0023	P	3.7
2	☐	50.000	59.967	14745.84	0.0215	P	0.3
3	☐	2500.000	3067.151	662338.90	0.9885	P	2.2
4	☐	6250.000	7625.762	1581364.11	2.4543	P	2.7
5	☐	12500.000	15300.138	3077155.56	4.9220	P	0.4
6	☐	25000.000	28707.492	5762419.92	9.2331	A	0.4
7	☐	50000.000	57032.664	11767516.37	18.3410	A	0.2
8	☐	250000.00	248042.64	53637107.30	79.7598	A	1.0

$$y = 3.2155E-004 * x + 0.0023$$

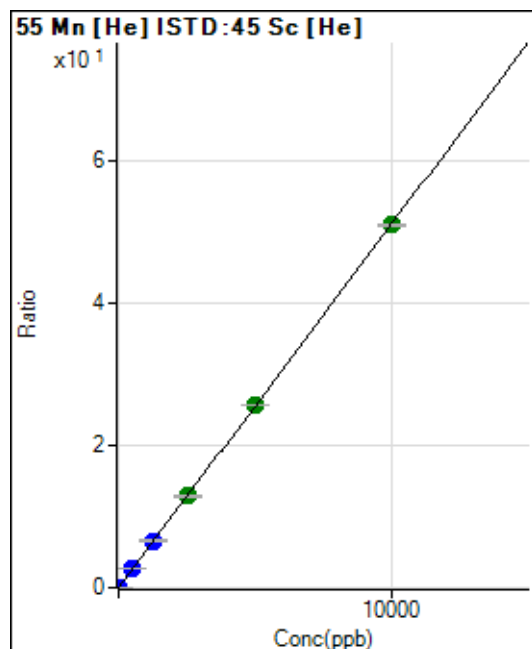
$$R = 0.9995$$

$$DL = 0.7798$$

$$BEC = 6.998$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	185.56	0.0003	P	5.0
2	☐	1.000	1.019	3744.95	0.0055	P	3.4
3	☐	500.000	517.349	1768011.12	2.6386	P	2.4
4	☐	1250.000	1285.775	4225093.58	6.5574	P	2.6
5	☐	2500.000	2516.219	8022797.03	12.8324	A	0.9
6	☐	5000.000	5023.743	15989804.35	25.6202	A	0.3
7	☐	10000.000	9978.734	32649550.35	50.8895	A	0.7
8	☐			25164.85	0.0374	P	0.2

$$y = 0.0051 * x + 2.7150E-004$$

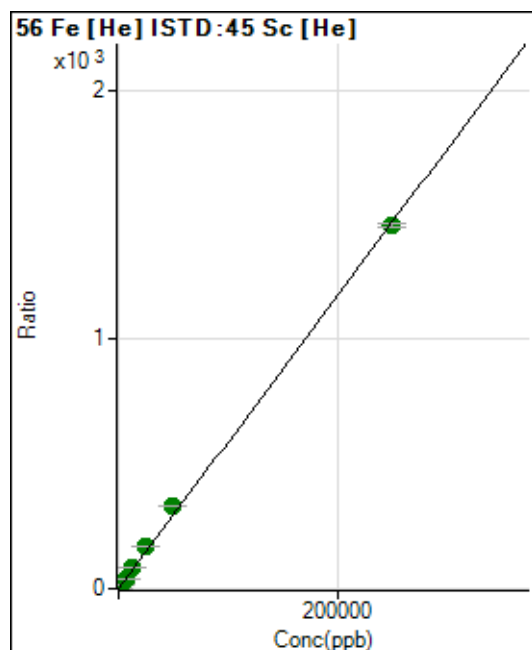
$$R = 1.0000$$

$$DL = 0.007944$$

$$BEC = 0.05324$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13182.02	0.0193	P	0.5
2	☐	50.000	56.654	240923.34	0.3518	P	3.7
3	☐	2500.000	2809.757	11063460.55	16.5118	A	3.4
4	☐	6250.000	7032.333	26608626.29	41.2971	A	2.2
5	☐	12500.000	14253.872	52319800.71	83.6856	A	0.7
6	☐	25000.000	28539.018	104558965.3	167.5354	A	1.0
7	☐	50000.000	56834.631	214046662.1	333.6229	A	0.6
8	☐	250000.00	248168.82	979585621.9	1,456.701	A	1.1

$$y = 0.0059 * x + 0.0193$$

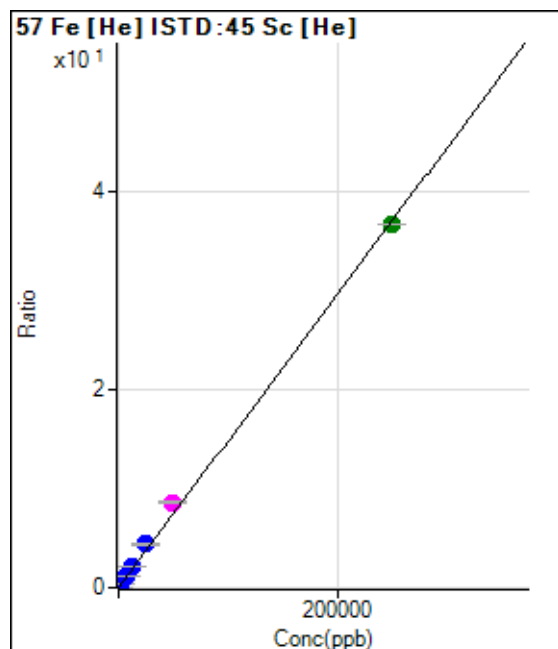
$$R = 0.9995$$

$$DL = 0.04442$$

$$BEC = 3.285$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	907.45	0.0013	P	9.1
2	☐	50.000	57.372	6705.33	0.0098	P	3.3
3	☐	2500.000	2948.743	292360.57	0.4363	P	3.9
4	☐	6250.000	7339.103	698458.65	1.0840	P	2.2
5	☐	12500.000	14943.403	1379066.64	2.2058	P	0.4
6	☐	25000.000	29596.865	2725838.78	4.3676	P	0.8
7	☐	50000.000	57835.508	5474281.02	8.5334	M	2.4
8	☐	250000.00	247819.32	24587480.64	36.5605	A	0.1

$$y = 1.4752\text{E-}004 * x + 0.0013$$

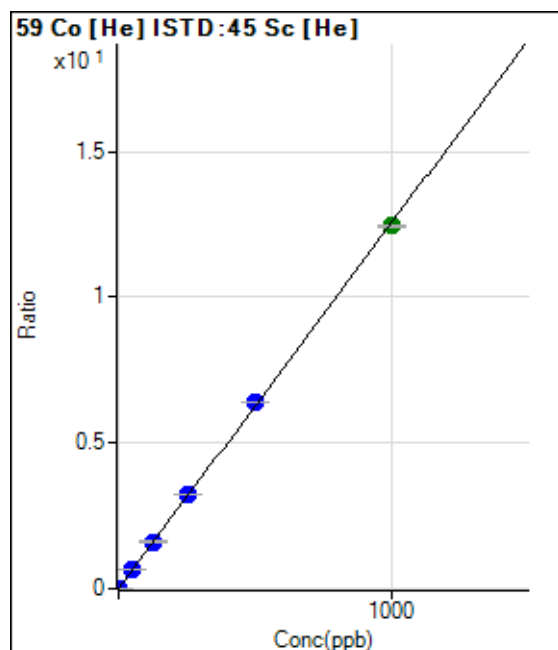
$$R = 0.9994$$

$$DL = 2.449$$

$$BEC = 9$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0001	P	12.8
2	☐	1.000	0.983	8545.89	0.0125	P	4.3
3	☐	50.000	51.745	435334.36	0.6497	P	2.1
4	☐	125.000	128.351	1038232.16	1.6113	P	2.1
5	☐	250.000	258.297	2027213.84	3.2426	P	0.6
6	☐	500.000	510.955	4003142.86	6.4142	P	0.4
7	☐	1000.000	991.942	7989172.52	12.4521	A	0.2
8	☐			15938.76	0.0237	P	2.3

$$y = 0.0126 * x + 1.4146\text{E-}004$$

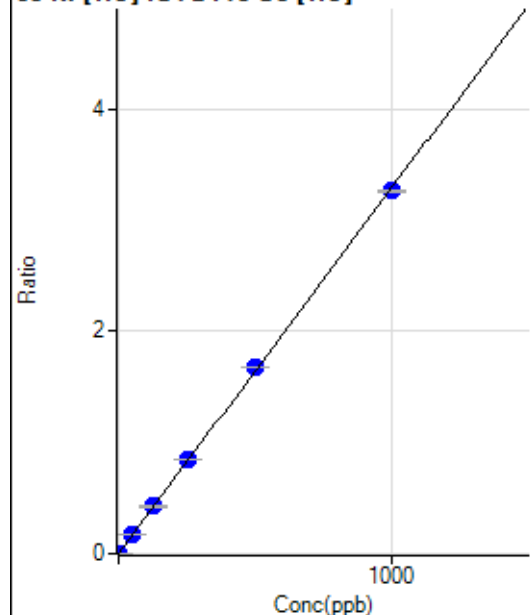
$$R = 0.9999$$

$$DL = 0.004327$$

$$BEC = 0.01127$$

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	93.33	0.0001	P	10.9
2	☐	1.000	0.989	2319.09	0.0034	P	5.2
3	☐	50.000	51.840	114242.93	0.1705	P	3.2
4	☐	125.000	129.008	273256.85	0.4241	P	2.4
5	☐	250.000	258.315	530826.39	0.8491	P	0.8
6	☐	500.000	509.732	1045569.25	1.6753	P	0.6
7	☐	1000.000	992.462	2092663.06	3.2617	P	0.5
8	☐			4361.80	0.0065	P	1.3

$$y = 0.0033 * x + 1.3656E-004$$

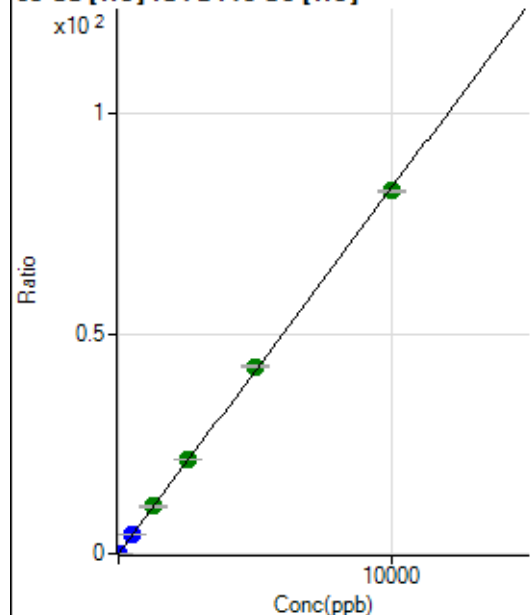
$$R = 0.9999$$

$$DL = 0.01359$$

$$BEC = 0.04155$$

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	2820.30	0.0041	P	6.7
2	☐	2.000	2.153	15093.43	0.0220	P	2.8
3	☐	500.000	520.883	2906097.25	4.3372	P	2.9
4	☐	1250.000	1294.226	6939354.83	10.7704	A	2.9
5	☐	2500.000	2568.545	13361199.25	21.3712	A	0.8
6	☐	5000.000	5111.274	26538993.49	42.5235	A	0.8
7	☐	10000.000	9920.655	52952975.33	82.5314	A	0.4
8	☐			12539.91	0.0186	P	2.6

$$y = 0.0083 * x + 0.0041$$

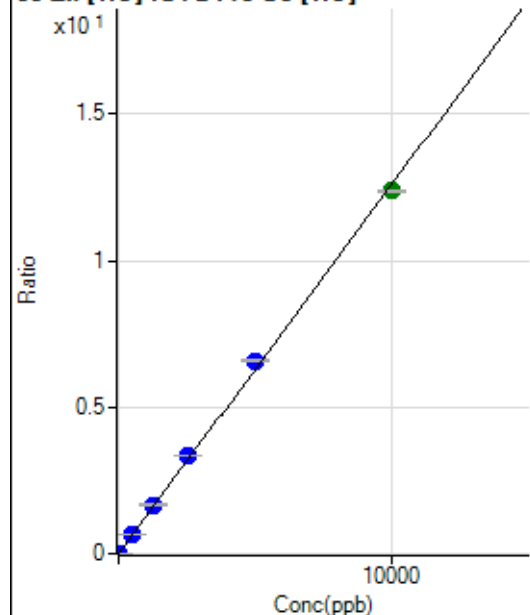
$$R = 0.9999$$

$$DL = 0.1004$$

$$BEC = 0.4961$$

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	635.58	0.0009	P	11.8
2	☐	2.000	2.334	2648.05	0.0039	P	3.1
3	☐	500.000	533.107	450218.38	0.6719	P	3.2
4	☐	1250.000	1321.445	1072283.49	1.6642	P	1.9
5	☐	2500.000	2663.640	2096628.39	3.3536	P	0.6
6	☐	5000.000	5228.601	4107859.35	6.5820	P	0.4
7	☐	10000.000	9834.203	7942042.94	12.3789	A	0.7
8	☐			18002.29	0.0268	P	0.6

$$y = 0.0013 * x + 9.2951E-004$$

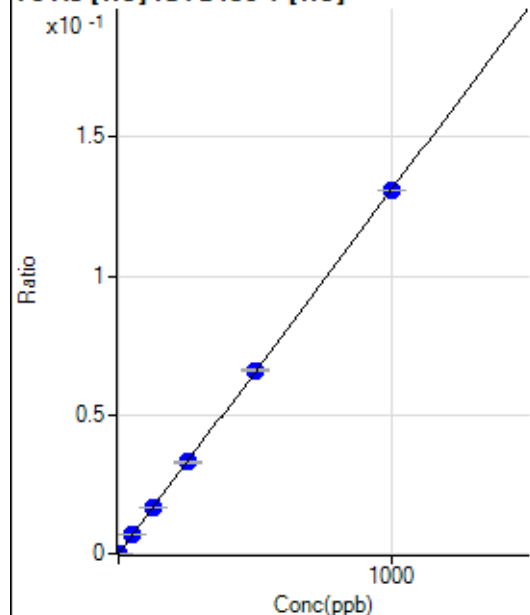
$$R = 0.9994$$

$$DL = 0.2604$$

$$BEC = 0.7385$$

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	6.79	0.0000	P	82.8
2	☐	1.000	1.017	579.03	0.0001	P	6.2
3	☐	50.000	51.120	28418.44	0.0067	P	2.5
4	☐	125.000	126.761	68480.26	0.0166	P	1.9
5	☐	250.000	251.255	134203.58	0.0329	P	0.7
6	☐	500.000	504.300	268730.19	0.0661	P	0.3
7	☐	1000.000	997.260	545266.22	0.1306	P	0.2
8	☐			226.55	0.0001	P	7.5

$$y = 1.3100E-004 * x + 1.5990E-006$$

$$R = 1.0000$$

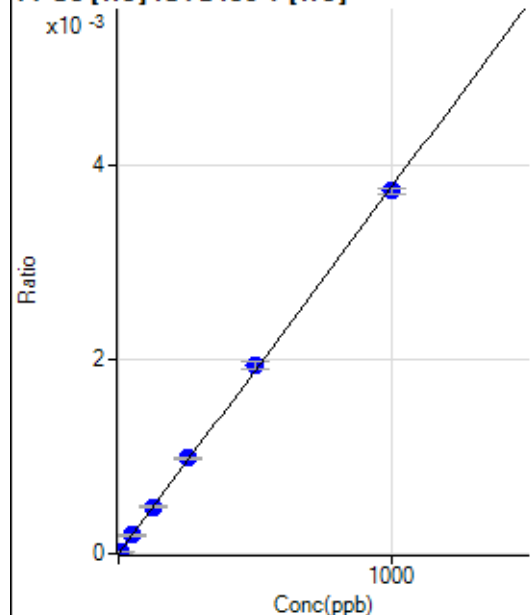
$$DL = 0.03032$$

$$BEC = 0.01221$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.603	75.56	0.0000	P	18.8
3	☐	50.000	51.786	828.92	0.0002	P	11.2
4	☐	125.000	128.147	1992.38	0.0005	P	0.9
5	☐	250.000	261.976	4026.15	0.0010	P	2.1
6	☐	500.000	513.994	7879.98	0.0019	P	3.5
7	☐	1000.000	989.528	15564.01	0.0037	P	1.5
8	☐			5.55	0.0000	P	124.

$$y = 3.7685\text{E-}006 * x + 2.6123\text{E-}007$$

$$R = 0.9998$$

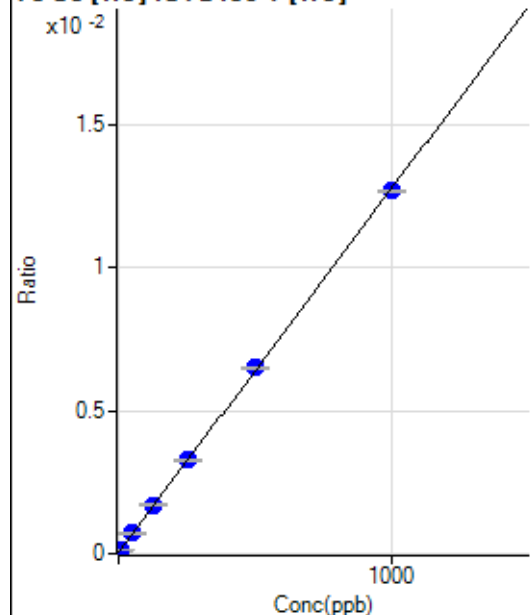
$$DL = 0.3602$$

$$BEC = 0.06932$$

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	177.16	0.0000	P	3.8
2	☐	5.000	5.187	462.97	0.0001	P	4.9
3	☐	50.000	52.935	3035.51	0.0007	P	2.7
4	☐	125.000	130.132	7001.72	0.0017	P	3.2
5	☐	250.000	254.399	13370.39	0.0033	P	1.7
6	☐	500.000	508.607	26500.03	0.0065	P	0.9
7	☐	1000.000	993.808	52963.25	0.0127	P	0.2
8	☐			190.74	0.0000	P	4.1

$$y = 1.2727\text{E-}005 * x + 4.1796\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.3776$$

$$BEC = 3.284$$

Weight: <None>

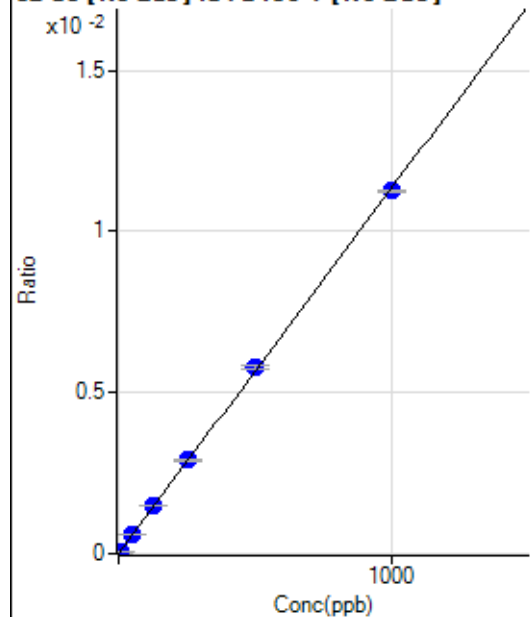
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46927.19		P	2.6
2	☐			48819.42		P	1.9
3	☐			46901.91		P	1.4
4	☐			45076.73		P	1.8
5	☐			43833.89		P	3.1
6	☐			46171.71		P	3.0
7	☐			48233.99		P	0.8
8	☐			49393.71		P	2.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.77		P	14.3
2	☐			143.48		P	28.2
3	☐			133.47		P	18.9
4	☐			103.44		P	11.2
5	☐			93.43		P	52.9
6	☐			83.42		P	50.0
7	☐			100.10		P	36.1
8	☐			140.15		P	25.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.50	0.0000	P	95.0
2	☐	5.000	4.533	1339.43	0.0001	P	2.5
3	☐	50.000	52.463	14274.65	0.0006	P	1.1
4	☐	125.000	131.326	35026.36	0.0015	P	0.6
5	☐	250.000	255.227	67834.22	0.0029	P	0.8
6	☐	500.000	509.661	135193.65	0.0058	P	1.6
7	☐	1000.000	992.951	270107.59	0.0113	P	0.7
8	☐			287.91	0.0000	P	12.5

$$y = 1.1336E-005 * x + 3.8945E-006$$

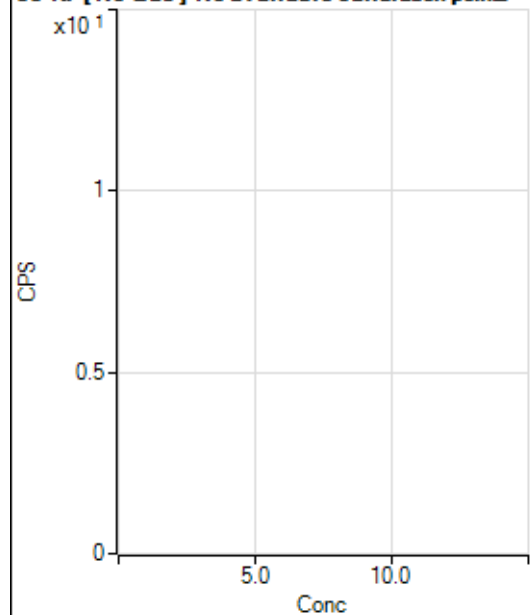
$$R = 0.9999$$

$$DL = 0.9791$$

$$BEC = 0.3436$$

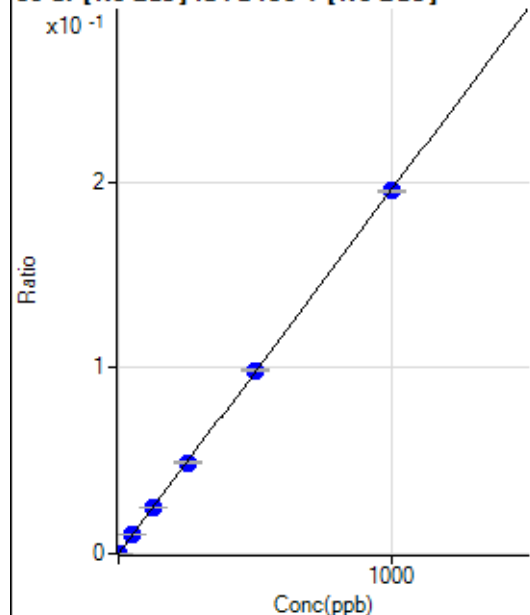
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			660.02		P	7.5
2	☐			727.80		P	3.4
3	☐			640.02		P	11.3
4	☐			647.80		P	3.1
5	☐			616.69		P	1.1
6	☐			617.80		P	4.6
7	☐			651.13		P	9.6
8	☐			680.02		P	1.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1088.96	0.0000	P	3.4
2	☐	1.000	0.953	5612.35	0.0002	P	0.7
3	☐	50.000	51.195	239820.33	0.0101	P	1.4
4	☐	125.000	127.639	586823.17	0.0250	P	1.3
5	☐	250.000	250.737	1149231.63	0.0491	P	0.6
6	☐	500.000	504.406	2307977.18	0.0987	P	0.9
7	☐	1000.000	997.224	4679494.72	0.1951	P	0.5
8	☐			24521.43	0.0010	P	0.5

$$y = 1.9556\text{E-}004 * x + 4.5184\text{E-}005$$

$$R = 1.0000$$

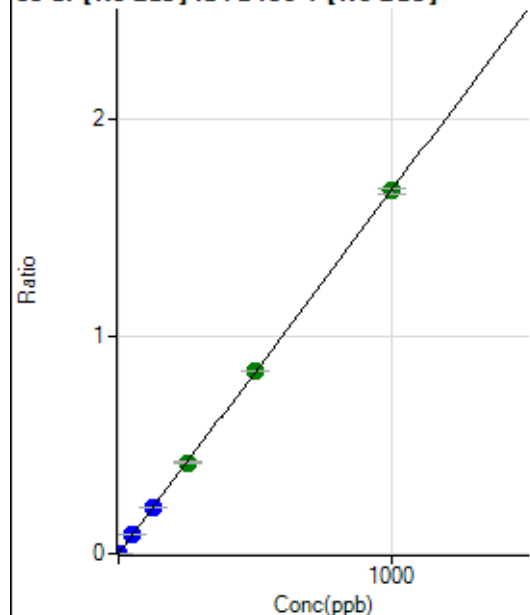
$$DL = 0.02336$$

$$BEC = 0.231$$

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	319.46	0.0000	P	21.8
2	☐	1.000	0.980	40036.80	0.0017	P	1.5
3	☐	50.000	51.702	2061832.88	0.0865	P	0.7
4	☐	125.000	128.673	5049126.03	0.2152	P	0.9
5	☐	250.000	250.536	9808776.95	0.4189	A	1.3
6	☐	500.000	501.827	19624250.26	0.8391	A	0.1
7	☐	1000.000	998.408	40045299.85	1.6694	A	1.3
8	☐			206443.32	0.0087	P	1.6

$$y = 0.0017 * x + 1.3247\text{E-}005$$

$$R = 1.0000$$

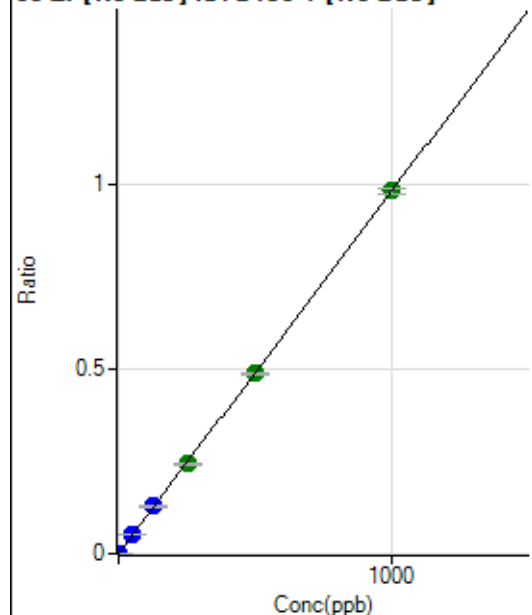
$$DL = 0.00518$$

$$BEC = 0.007923$$

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	1166.75	0.0000	P	13.4
2	☐	1.000	0.985	24568.69	0.0010	P	2.2
3	☐	50.000	51.889	1213522.46	0.0509	P	0.8
4	☐	125.000	130.421	2999903.21	0.1278	P	0.7
5	☐	250.000	247.254	5673714.84	0.2423	A	0.5
6	☐	500.000	496.798	11385523.00	0.4868	A	0.6
7	☐	1000.000	1001.515	23539096.19	0.9813	A	1.8
8	☐			6993.57	0.0003	P	1.8

$$y = 9.7979\text{E-}004 * x + 4.8405\text{E-}005$$

$$R = 1.0000$$

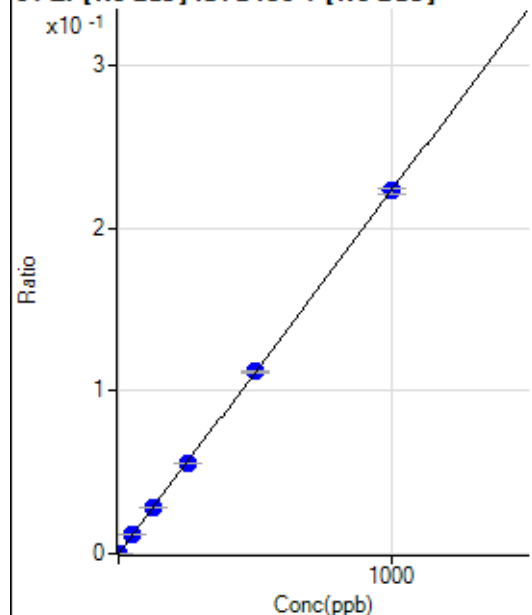
$$DL = 0.01986$$

$$BEC = 0.0494$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0000	P	7.1
2	☐	1.000	0.932	5237.17	0.0002	P	2.3
3	☐	50.000	50.801	270739.77	0.0114	P	0.6
4	☐	125.000	126.789	664661.87	0.0283	P	0.5
5	☐	250.000	248.424	1299253.70	0.0555	P	0.2
6	☐	500.000	501.406	2618898.34	0.1120	P	0.7
7	☐	1000.000	999.427	5354073.64	0.2232	P	1.4
8	☐			1486.23	0.0001	P	12.5

$$y = 2.2332\text{E-}004 * x + 8.0707\text{E-}006$$

$$R = 1.0000$$

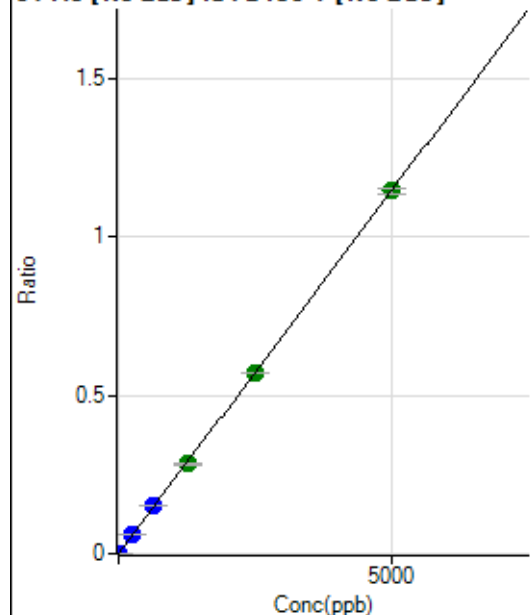
$$DL = 0.007709$$

$$BEC = 0.03614$$

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	372.23	0.0000	P	19.6
2	☐	5.000	4.967	27969.54	0.0012	P	1.6
3	☐	250.000	260.535	1424831.12	0.0597	P	1.2
4	☐	625.000	652.816	3512845.69	0.1497	P	0.3
5	☐	1250.000	1239.460	6654374.89	0.2842	A	2.1
6	☐	2500.000	2498.995	13400507.59	0.5730	A	0.1
7	☐	5000.000	4999.133	27494101.66	1.1462	A	1.7
8	☐			7452.14	0.0003	P	3.5

$$y = 2.2928\text{E-}004 * x + 1.5437\text{E-}005$$

$$R = 1.0000$$

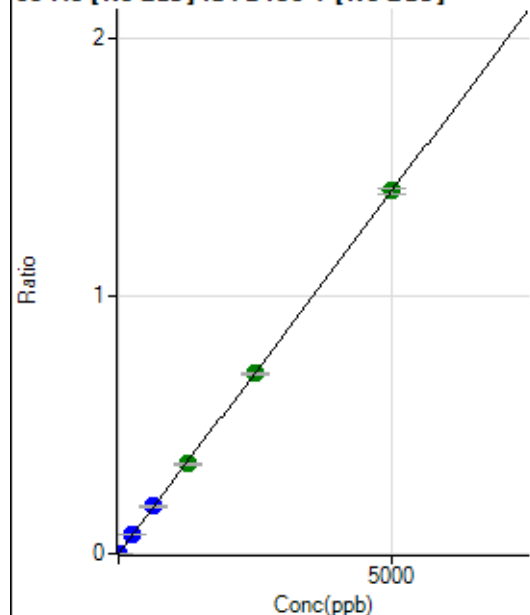
$$DL = 0.03963$$

$$BEC = 0.06733$$

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	69.45	0.0000	P	18.0
2	☐	5.000	4.955	33885.13	0.0014	P	1.1
3	☐	250.000	261.121	1753604.27	0.0735	P	1.1
4	☐	625.000	650.784	4300873.66	0.1833	P	0.6
5	☐	1250.000	1236.234	8151728.57	0.3481	A	1.1
6	☐	2500.000	2484.588	16363136.13	0.6997	A	1.0
7	☐	5000.000	5007.368	33825272.28	1.4101	A	1.7
8	☐			7924.60	0.0003	P	3.9

$$y = 2.8161\text{E-}004 * x + 2.8803\text{E-}006$$

$$R = 1.0000$$

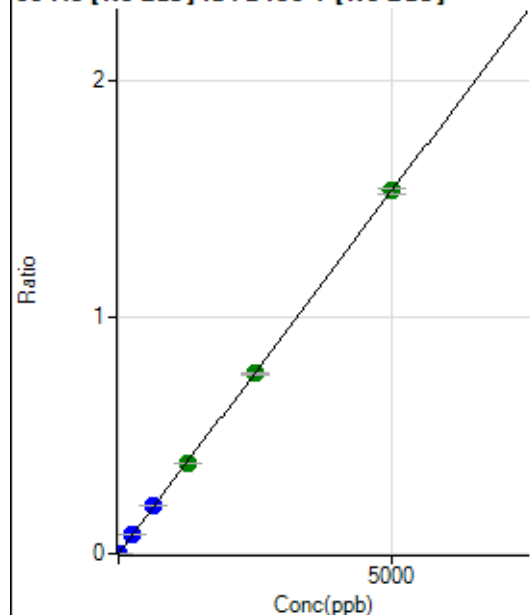
$$DL = 0.005518$$

$$BEC = 0.01023$$

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	197.23	0.0000	P	6.7
2	☐	5.000	4.983	37193.32	0.0015	P	2.8
3	☐	250.000	261.372	1909905.68	0.0801	P	0.8
4	☐	625.000	654.065	4703123.58	0.2004	P	0.1
5	☐	1250.000	1238.500	8885501.85	0.3795	A	0.7
6	☐	2500.000	2489.115	17835414.63	0.7627	A	1.1
7	☐	5000.000	5004.116	36777322.35	1.5332	A	1.9
8	☐			20409.48	0.0009	P	3.9

$$y = 3.0639\text{E-}004 * x + 8.1849\text{E-}006$$

$$R = 1.0000$$

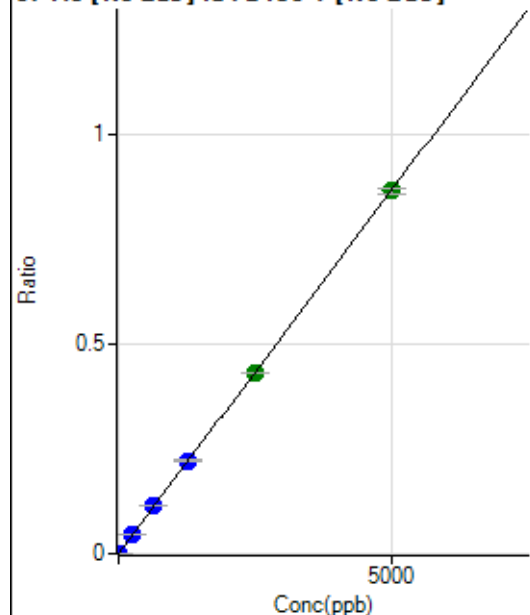
$$DL = 0.005351$$

$$BEC = 0.02671$$

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	36.11	0.0000	P	66.7
2	☐	5.000	4.909	20687.58	0.0009	P	0.1
3	☐	250.000	261.827	1083933.65	0.0455	P	1.1
4	☐	625.000	655.489	2670498.52	0.1138	P	0.7
5	☐	1250.000	1279.998	5203129.50	0.2222	P	0.5
6	☐	2500.000	2492.108	10117880.61	0.4326	A	0.6
7	☐	5000.000	4992.044	20787512.62	0.8666	A	1.9
8	☐			4667.55	0.0002	P	6.9

$$y = 1.7360\text{E-}004 * x + 1.4998\text{E-}006$$

$$R = 1.0000$$

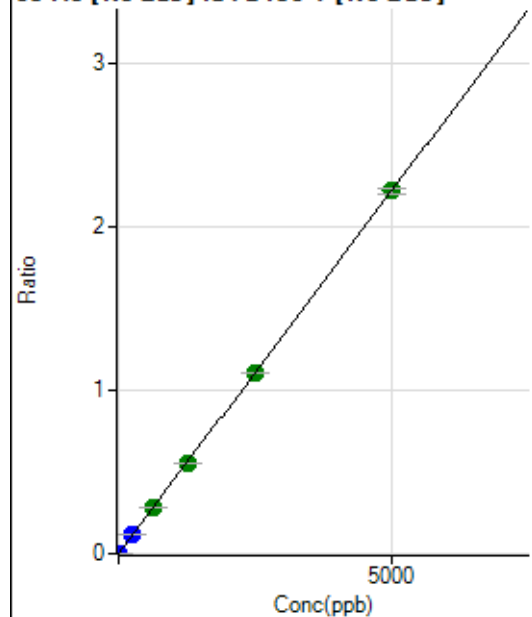
$$DL = 0.01729$$

$$BEC = 0.008639$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	7.8
2	☐	5.000	4.951	53431.02	0.0022	P	1.6
3	☐	250.000	263.555	2794061.89	0.1172	P	0.9
4	☐	625.000	636.851	6643984.22	0.2831	A	1.0
5	☐	1250.000	1245.829	12968177.37	0.5538	A	0.8
6	☐	2500.000	2493.422	25923892.42	1.1085	A	0.7
7	☐	5000.000	5002.173	53341914.39	2.2237	A	1.5
8	☐			10990.65	0.0005	P	1.4

$$y = 4.4455\text{E-}004 * x + 4.1483\text{E-}006$$

$$R = 1.0000$$

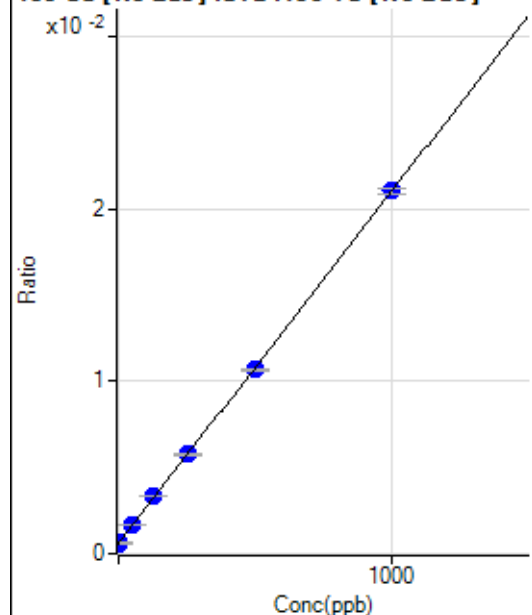
$$DL = 0.002175$$

$$BEC = 0.009332$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11852.49	0.0006	P	0.9
2	☐	1.000	0.114	11933.10	0.0006	P	2.5
3	☐	50.000	54.157	32936.08	0.0017	P	1.0
4	☐	125.000	132.345	63771.59	0.0033	P	1.2
5	☐	250.000	252.934	112249.99	0.0058	P	1.0
6	☐	500.000	492.551	212244.62	0.0107	P	2.0
7	☐	1000.000	1001.866	416818.75	0.0211	P	1.8
8	☐			12149.98	0.0006	P	2.8

$$y = 2.0420\text{E-}005 * x + 6.1276\text{E-}004$$

$$R = 0.9999$$

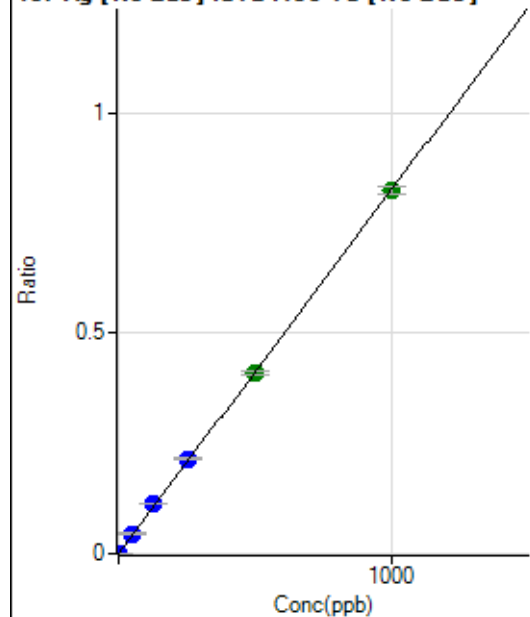
$$DL = 0.7818$$

$$BEC = 30.01$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0000	P	37.6
2	☐	1.000	1.055	17088.50	0.0009	P	2.4
3	☐	50.000	55.466	878290.98	0.0458	P	0.5
4	☐	125.000	135.519	2153660.12	0.1120	P	0.9
5	☐	250.000	259.942	4171630.82	0.2147	P	2.1
6	☐	500.000	498.220	8186292.89	0.4116	A	2.2
7	☐	1000.000	996.816	16288903.84	0.8235	A	2.1
8	☐			7588.35	0.0004	P	4.9

$$y = 8.2609\text{E-}004 * x + 9.1711\text{E-}006$$

$$R = 0.9999$$

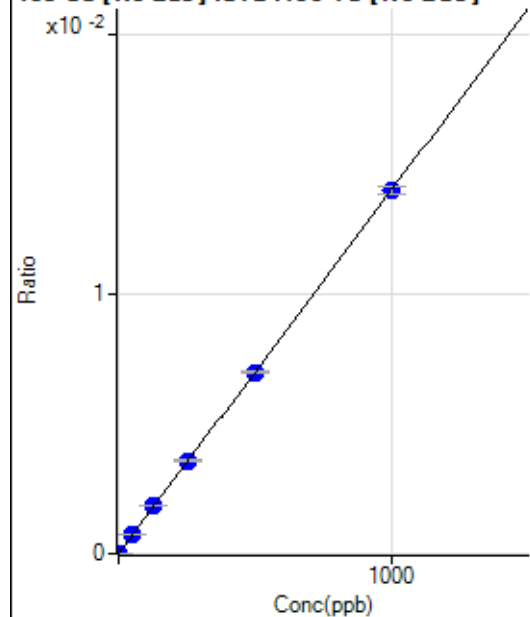
$$DL = 0.01253$$

$$BEC = 0.0111$$

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	40.28	0.0000	P	11.9
2	☐	1.000	1.036	322.23	0.0000	P	32.5
3	☐	50.000	53.466	14387.95	0.0008	P	2.8
4	☐	125.000	132.876	35831.29	0.0019	P	0.5
5	☐	250.000	255.011	69398.65	0.0036	P	2.3
6	☐	500.000	499.621	139197.02	0.0070	P	1.2
7	☐	1000.000	997.779	276388.51	0.0140	P	1.9
8	☐			262.51	0.0000	P	21.8

$$y = 1.4001\text{E-}005 * x + 2.0822\text{E-}006$$

$$R = 1.0000$$

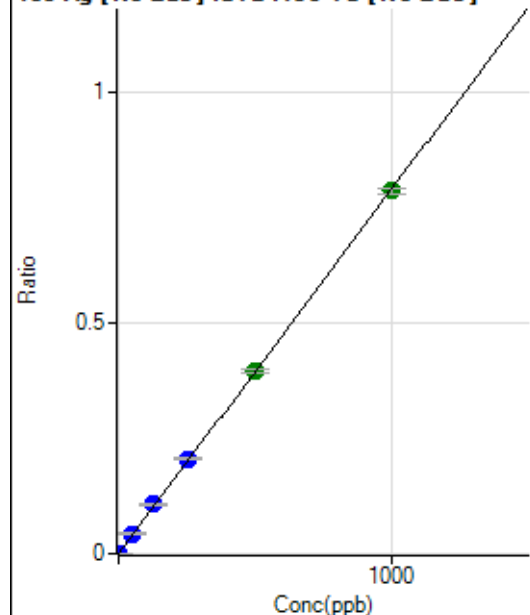
$$DL = 0.05298$$

$$BEC = 0.1487$$

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	27.78	0.0000	P	86.6
2	☐	1.000	1.028	15742.43	0.0008	P	1.0
3	☐	50.000	55.230	834529.13	0.0435	P	1.2
4	☐	125.000	135.252	2050885.81	0.1066	P	1.6
5	☐	250.000	259.981	3981613.28	0.2050	P	1.6
6	☐	500.000	500.090	7841794.97	0.3942	A	1.9
7	☐	1000.000	995.917	15531152.61	0.7851	A	1.7
8	☐			12746.00	0.0007	P	80.2

$$y = 7.8834\text{E-}004 * x + 1.4433\text{E-}006$$

$$R = 0.9999$$

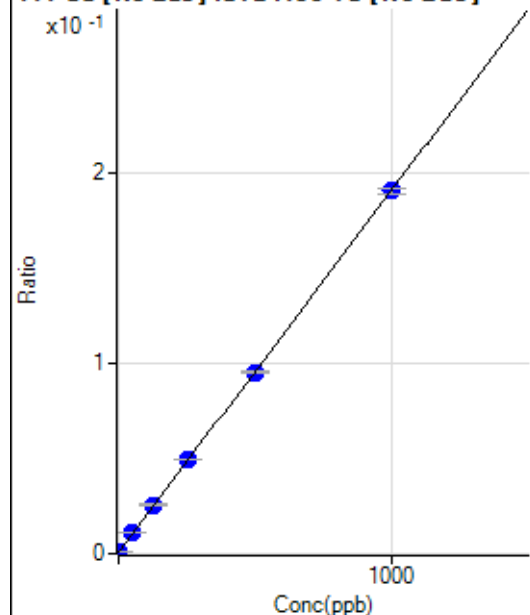
$$DL = 0.004757$$

$$BEC = 0.001831$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11872.21	0.0006	P	0.9
2	☐	1.000	1.081	15899.85	0.0008	P	2.6
3	☐	50.000	53.913	208504.75	0.0109	P	1.1
4	☐	125.000	131.691	494169.97	0.0257	P	1.1
5	☐	250.000	257.229	963493.78	0.0496	P	1.7
6	☐	500.000	497.354	1896116.08	0.0953	P	1.5
7	☐	1000.000	998.484	3773499.11	0.1907	P	1.4
8	☐			13655.92	0.0007	P	1.8

$$y = 1.9042\text{E-}004 * x + 6.1378\text{E-}004$$

$$R = 1.0000$$

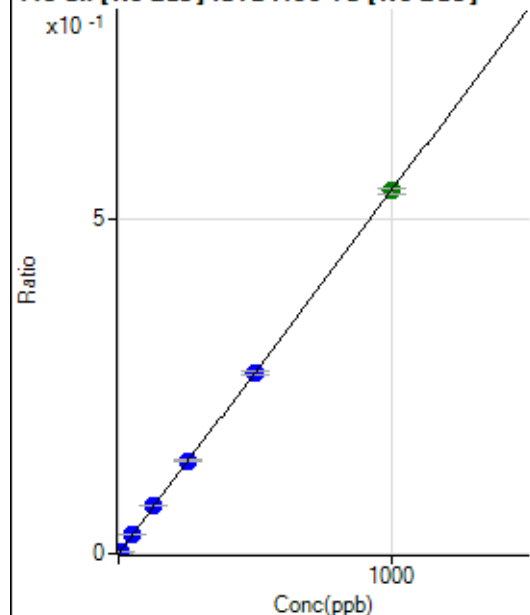
$$DL = 0.08921$$

$$BEC = 3.223$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	938.95	0.0000	P	24.4
2	☐	5.000	4.963	53148.03	0.0027	P	1.1
3	☐	50.000	53.062	552371.00	0.0288	P	0.9
4	☐	125.000	130.789	1365179.23	0.0710	P	1.0
5	☐	250.000	254.983	2687116.90	0.1383	P	1.5
6	☐	500.000	497.224	5364207.54	0.2697	P	1.7
7	☐	1000.000	999.266	10720296.77	0.5419	A	1.6
8	☐			4009.02	0.0002	P	4.5

$$y = 5.4227\text{E-}004 * x + 4.8614\text{E-}005$$

$$R = 1.0000$$

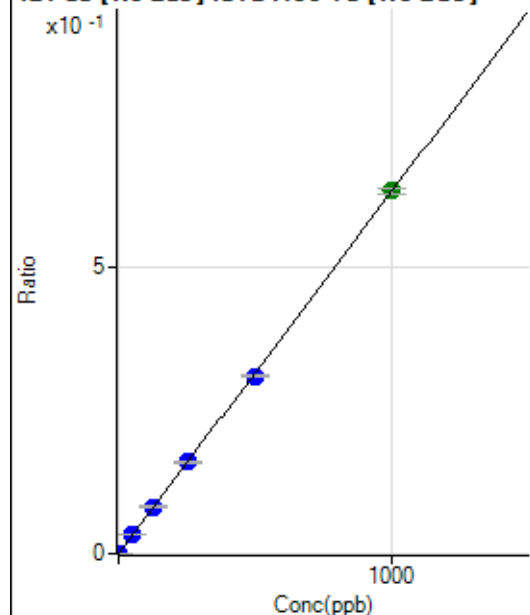
$$DL = 0.06563$$

$$BEC = 0.08965$$

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	61.11	0.0000	P	33.6
2	☐	2.000	1.935	23737.10	0.0012	P	2.6
3	☐	50.000	52.046	629228.30	0.0328	P	0.6
4	☐	125.000	129.473	1570945.62	0.0817	P	1.3
5	☐	250.000	253.079	3101221.57	0.1596	P	1.8
6	☐	500.000	491.329	6164778.22	0.3099	P	1.7
7	☐	1000.000	1002.905	12514705.05	0.6326	A	1.8
8	☐			8121.99	0.0004	P	4.4

$$y = 6.3078\text{E-}004 * x + 3.1558\text{E-}006$$

$$R = 0.9999$$

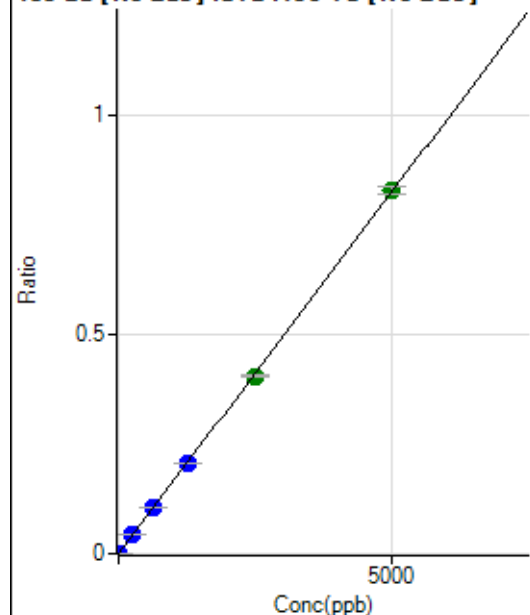
$$DL = 0.005048$$

$$BEC = 0.005003$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	8.9
2	☐	10.000	9.627	30831.84	0.0016	P	1.2
3	☐	250.000	257.838	814258.09	0.0425	P	0.9
4	☐	625.000	636.305	2016899.65	0.1049	P	0.7
5	☐	1250.000	1247.259	3992664.85	0.2055	P	1.5
6	☐	2500.000	2457.550	8055322.23	0.4049	A	1.4
7	☐	5000.000	5020.106	16362515.47	0.8272	A	2.1
8	☐			25816.13	0.0014	P	2.5

$$y = 1.6477\text{E-}004 * x + 3.1613\text{E-}006$$

$$R = 0.9999$$

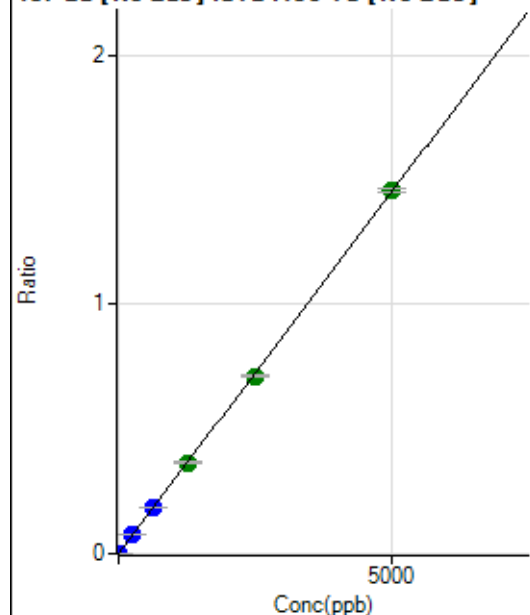
$$DL = 0.005106$$

$$BEC = 0.01919$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.00	0.0000	P	43.8
2	☐	10.000	9.489	53553.58	0.0028	P	2.5
3	☐	250.000	257.271	1430985.82	0.0747	P	1.1
4	☐	625.000	630.346	3519136.45	0.1829	P	0.5
5	☐	1250.000	1256.888	7086090.35	0.3648	A	2.1
6	☐	2500.000	2458.558	14193053.96	0.7135	A	1.6
7	☐	5000.000	5017.968	28810007.24	1.4563	A	1.2
8	☐			46325.00	0.0024	P	1.6

$$y = 2.9022\text{E-}004 * x + 6.4687\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.02928$$

$$BEC = 0.02229$$

Weight: <None>

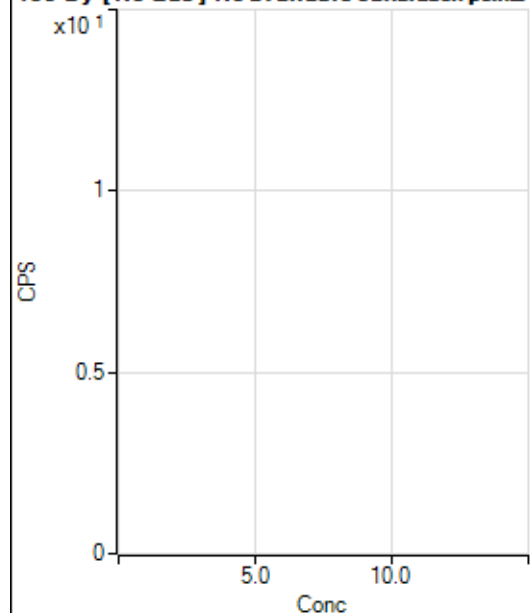
Min Conc: 0

150 Nd [No Gas] No available calibration points

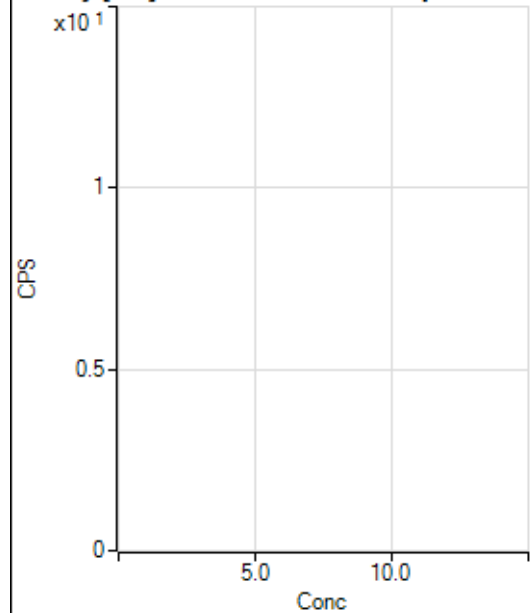
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	33.4
2	☐			22.22		P	45.8
3	☐			75.56		P	13.5
4	☐			251.12		P	5.5
5	☐			422.24		P	19.1
6	☐			737.81		P	7.5
7	☐			1506.78		P	1.3
8	☐			46.67		P	28.6

150 Nd [He] No available calibration points

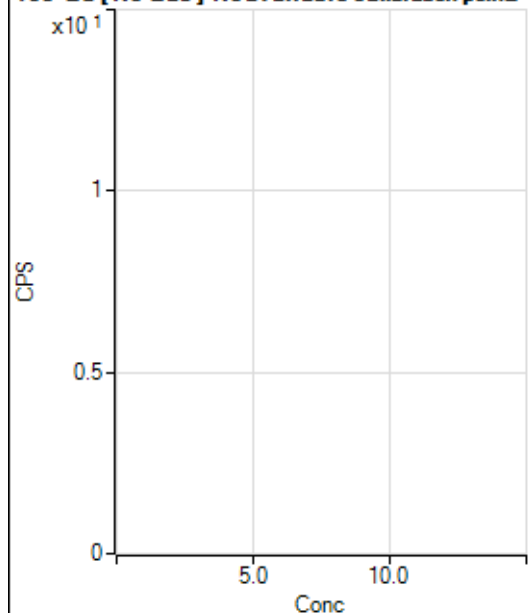
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			12.22		P	31.5
4	☐			24.45		P	43.8
5	☐			36.66		P	15.7
6	☐			105.56		P	9.6
7	☐			145.56		P	34.7
8	☐			20.00		P	33.4

156 Dy [No Gas] No available calibration points

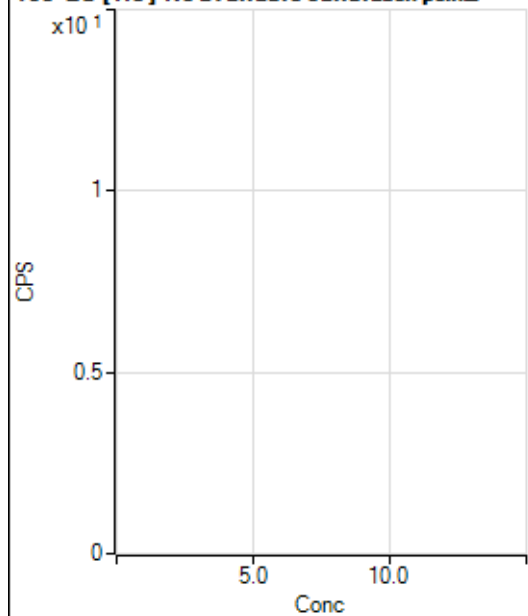
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	57.7
2	☐			27.78		P	17.3
3	☐			66.67		P	69.6
4	☐			66.67		P	43.3
5	☐			127.78		P	10.0
6	☐			283.34		P	16.4
7	☐			527.81		P	10.7
8	☐			963.95		P	7.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	39.7
2	☐			14.44		P	35.3
3	☐			31.11		P	12.4
4	☐			58.89		P	8.6
5	☐			153.33		P	28.8
6	☐			286.67		P	14.1
7	☐			517.80		P	9.2
8	☐			540.02		P	21.2

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

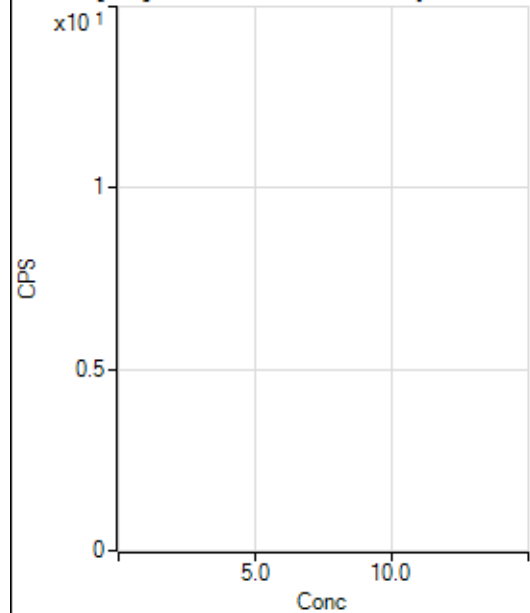
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			172.23		P	14.8
2	☐			211.12		P	11.4
3	☐			238.90		P	11.2
4	☐			186.12		P	13.7
5	☐			297.23		P	12.6
6	☐			294.45		P	8.6
7	☐			436.13		P	12.3
8	☐			1169.53		P	5.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			422.23		P	12.9
2	☐			445.57		P	6.3
3	☐			425.57		P	12.2
4	☐			434.46		P	5.6
5	☐			423.34		P	4.8
6	☐			456.68		P	8.6
7	☐			590.02		P	7.5
8	☐			972.27		P	4.1

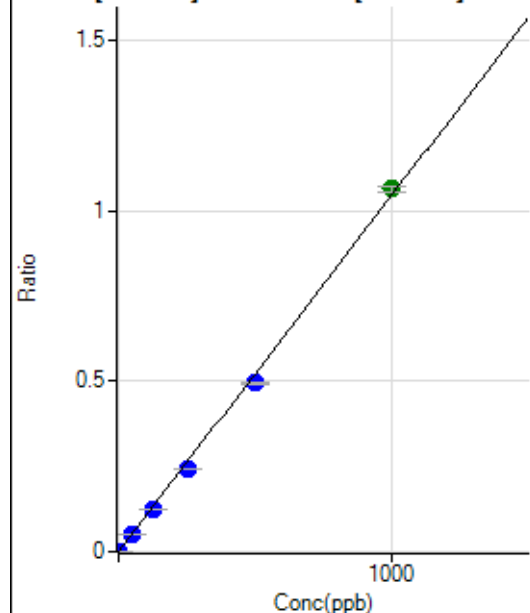
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.12		P	24.4
2	☐			88.89		P	23.6
3	☐			130.56		P	44.8
4	☐			91.67		P	9.1
5	☐			102.78		P	36.6
6	☐			144.45		P	28.5
7	☐			116.67		P	0.0
8	☐			202.79		P	12.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	30.3
2	☐			52.22		P	37.4
3	☐			50.00		P	20.0
4	☐			51.11		P	22.9
5	☐			48.89		P	28.4
6	☐			48.89		P	3.9
7	☐			71.11		P	7.2
8	☐			112.22		P	15.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.12	0.0000	P	7.5
2	☐	1.000	0.904	11977.96	0.0010	P	1.8
3	☐	50.000	47.046	621210.78	0.0492	P	1.6
4	☐	125.000	117.868	1538278.39	0.1232	P	1.3
5	☐	250.000	232.019	3078772.55	0.2425	P	1.0
6	☐	500.000	473.442	6185418.63	0.4949	P	1.4
7	☐	1000.000	1018.814	12966646.56	1.0649	A	1.5
8	☐			2875.40	0.0003	P	1.2

$$y = 0.0010 * x + 1.2980E-005$$

$$R = 0.9993$$

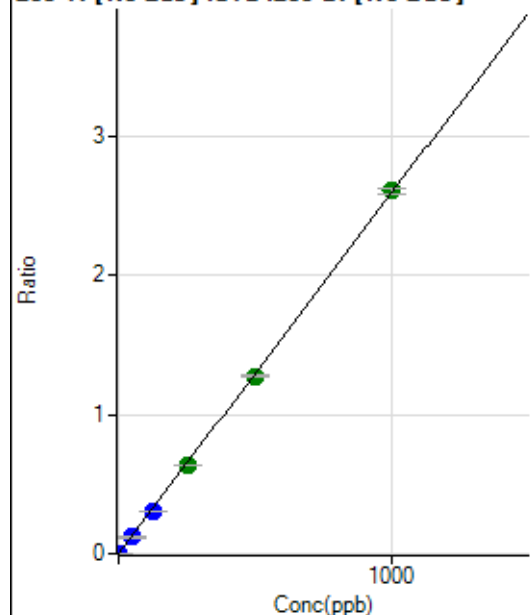
$$DL = 0.002803$$

$$BEC = 0.01242$$

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	358.35	0.0000	P	11.9
2	☐	1.000	0.862	28238.86	0.0023	P	2.7
3	☐	50.000	45.809	1496604.70	0.1185	P	2.6
4	☐	125.000	116.570	3764742.01	0.3016	P	1.3
5	☐	250.000	243.892	8008617.54	0.6309	A	0.7
6	☐	500.000	492.302	15916651.40	1.2734	A	0.7
7	☐	1000.000	1006.639	31703768.42	2.6039	A	1.8
8	☐			6882.55	0.0007	P	9.7

$$y = 0.0026 * x + 2.8882E-005$$

$$R = 0.9999$$

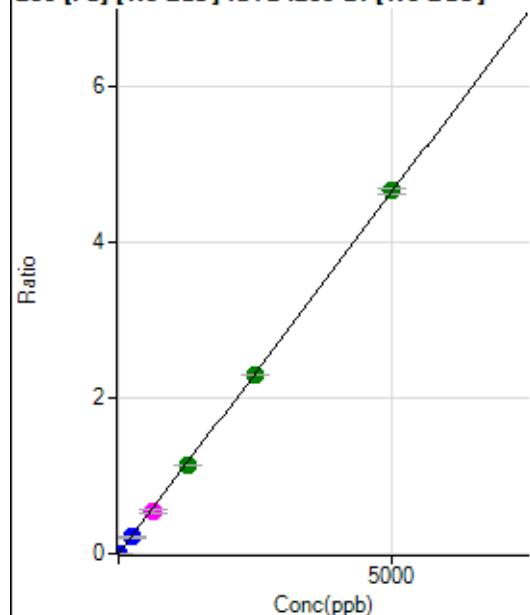
$$DL = 0.00397$$

$$BEC = 0.01117$$

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	340.75	0.0000	P	6.5
2	☐	1.000	0.823	9874.18	0.0008	P	0.5
3	☐	250.000	226.939	2655815.08	0.2103	P	3.2
4	☐	625.000	589.204	6816430.94	0.5461	M	5.8
5	☐	1250.000	1226.168	14424959.00	1.1363	A	0.9
6	☐	2500.000	2481.097	28739354.12	2.2993	A	0.4
7	☐	5000.000	5021.037	56656736.91	4.6531	A	1.3
8	☐			11668.27	0.0011	P	3.6

$$y = 9.2672\text{E-}004 * x + 2.7457\text{E-}005$$

$$R = 1.0000$$

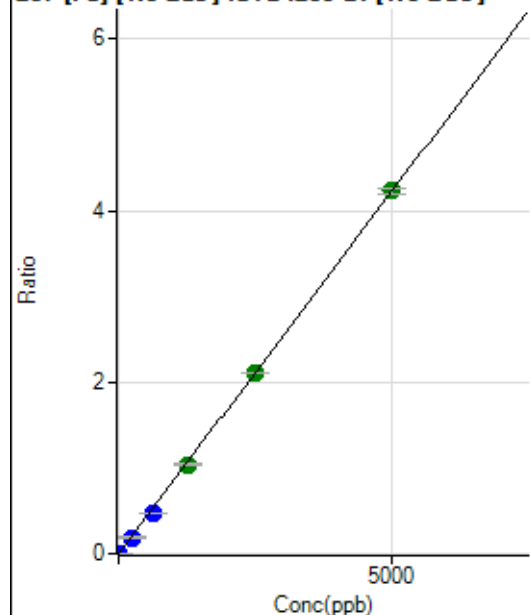
$$DL = 0.005789$$

$$BEC = 0.02963$$

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	281.49	0.0000	P	8.5
2	☐	1.000	0.792	8639.99	0.0007	P	1.5
3	☐	250.000	225.041	2397363.04	0.1898	P	1.8
4	☐	625.000	563.995	5939344.40	0.4757	P	0.6
5	☐	1250.000	1234.659	13219366.27	1.0414	A	0.9
6	☐	2500.000	2497.224	26326839.02	2.1063	A	0.2
7	☐	5000.000	5014.097	51492950.23	4.2291	A	1.9
8	☐			10228.16	0.0010	P	5.1

$$y = 8.4344\text{E-}004 * x + 2.2689\text{E-}005$$

$$R = 0.9999$$

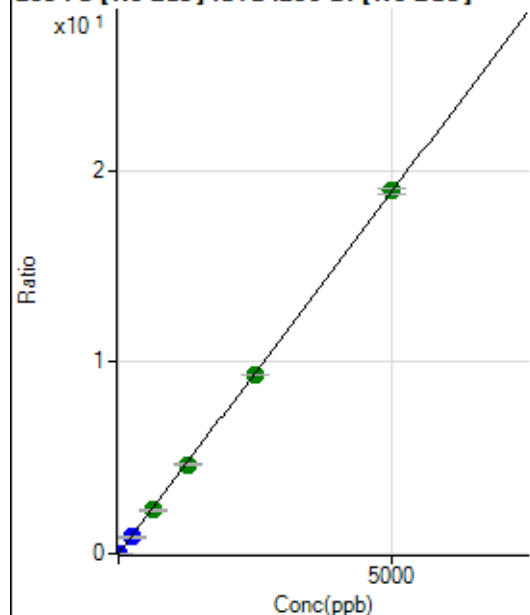
$$DL = 0.006884$$

$$BEC = 0.0269$$

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	1275.98	0.0001	P	3.2
2	☐	1.000	0.820	39985.45	0.0032	P	0.8
3	☐	250.000	226.475	10793149.20	0.8547	P	2.0
4	☐	625.000	599.062	28221386.45	2.2605	A	1.8
5	☐	1250.000	1232.528	59037433.61	4.6508	A	1.6
6	☐	2500.000	2483.920	117150546.3	9.3727	A	0.1
7	☐	5000.000	5016.827	230492738.0	18.9301	A	1.4
8	☐			46274.55	0.0044	P	3.2

$$y = 0.0038 * x + 1.0281E-004$$

$$R = 1.0000$$

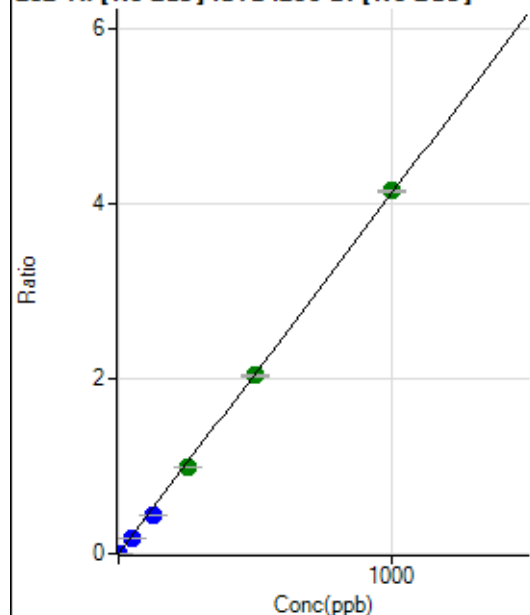
$$DL = 0.00258$$

$$BEC = 0.02725$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	648.18	0.0001	P	12.0
2	☐	1.000	-0.002	553.73	0.0000	P	11.5
3	☐	50.000	42.094	2188070.06	0.1733	P	2.0
4	☐	125.000	107.867	5541656.66	0.4439	P	2.0
5	☐	250.000	241.322	12605550.98	0.9930	A	1.2
6	☐	500.000	494.397	25427445.01	2.0344	A	0.6
7	☐	1000.000	1007.509	50481715.02	4.1457	A	0.8
8	☐			5973.70	0.0006	P	3.7

$$y = 0.0041 * x + 5.2235E-005$$

$$R = 0.9998$$

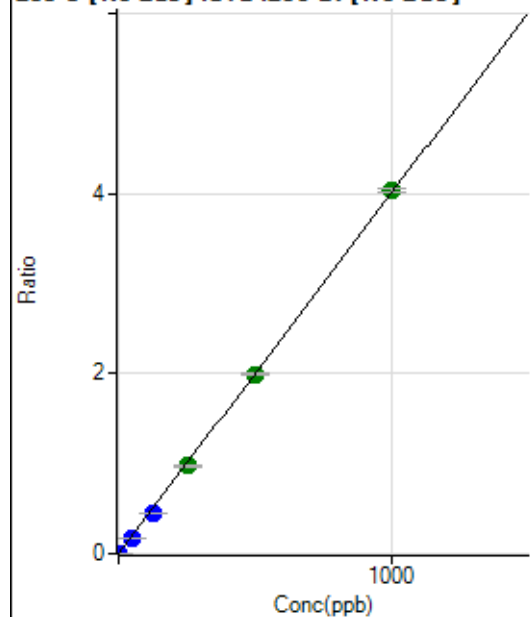
$$DL = 0.004559$$

$$BEC = 0.01269$$

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	55.56	0.0000	P	22.5
2	☐	1.000	0.813	40806.43	0.0033	P	3.4
3	☐	50.000	43.572	2208142.45	0.1748	P	1.4
4	☐	125.000	111.337	5577174.43	0.4468	P	2.2
5	☐	250.000	243.000	12377580.49	0.9751	A	0.9
6	☐	500.000	496.271	24889199.34	1.9913	A	1.0
7	☐	1000.000	1005.644	49134508.04	4.0353	A	1.2
8	☐			4592.61	0.0004	P	3.7

$$y = 0.0040 * x + 4.4732E-006$$

$$R = 0.9999$$

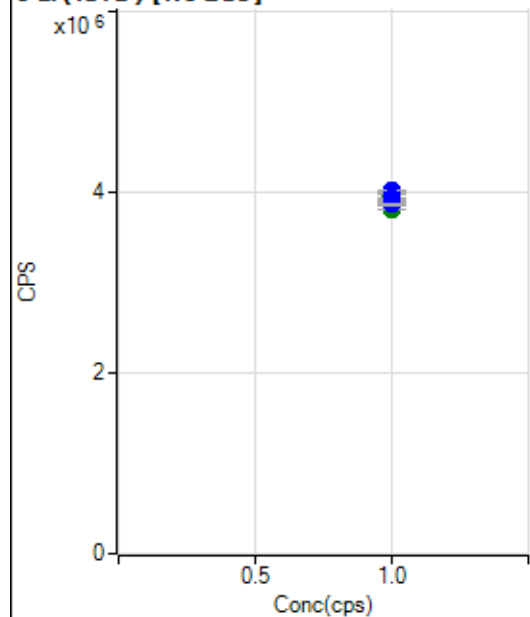
$$DL = 0.0007521$$

$$BEC = 0.001115$$

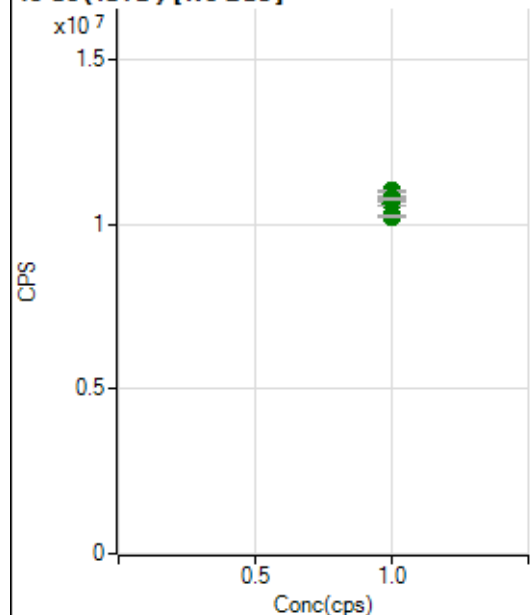
Weight: <None>

Min Conc: 0

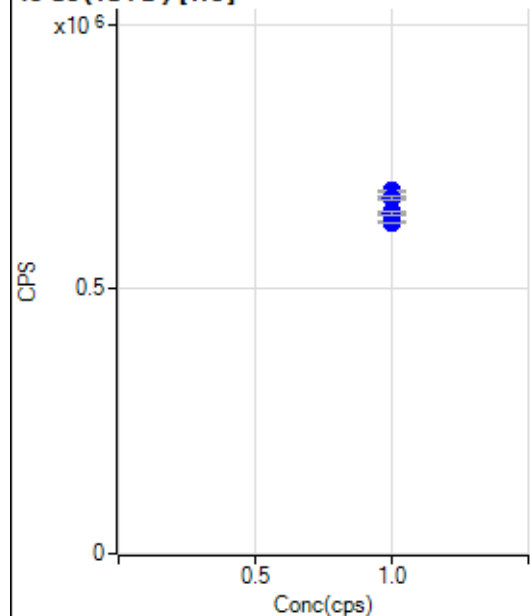
6 Li (ISTD) [No Gas]



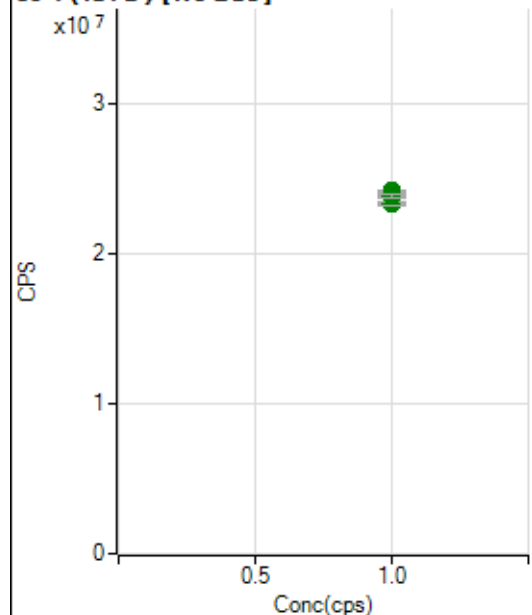
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3981701.36		A	0.3
2	☐	1.000		3996931.26		A	0.3
3	☐	1.000		3959038.87		A	1.2
4	☐	1.000		3808910.32		A	0.4
5	☐	1.000		4011927.33		P	0.1
6	☐	1.000		3928016.09		P	0.8
7	☐	1.000		3885626.33		P	0.4
8	☐	1.000		3859581.33		P	0.6

45 Sc (ISTD) [No Gas]

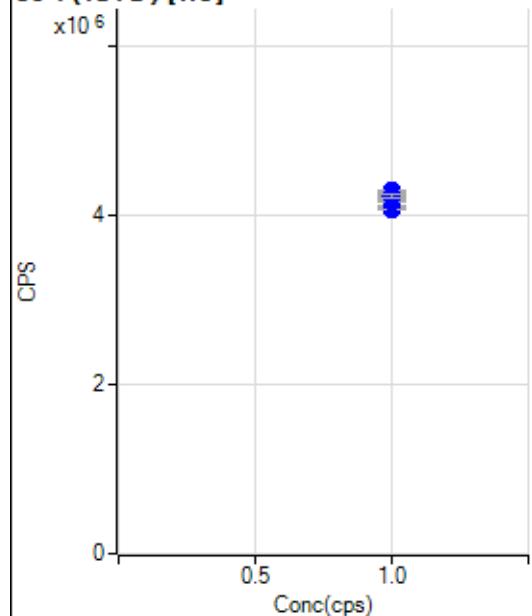
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11010290.67		A	0.9
2	☐	1.000		10975362.89		A	0.6
3	☐	1.000		10813730.12		A	1.0
4	☐	1.000		10645837.90		A	1.2
5	☐	1.000		10204803.11		A	0.4
6	☐	1.000		10262844.36		A	0.6
7	☐	1.000		10640516.79		A	1.0
8	☐	1.000		10765629.42		A	0.1

45 Sc (ISTD) [He]

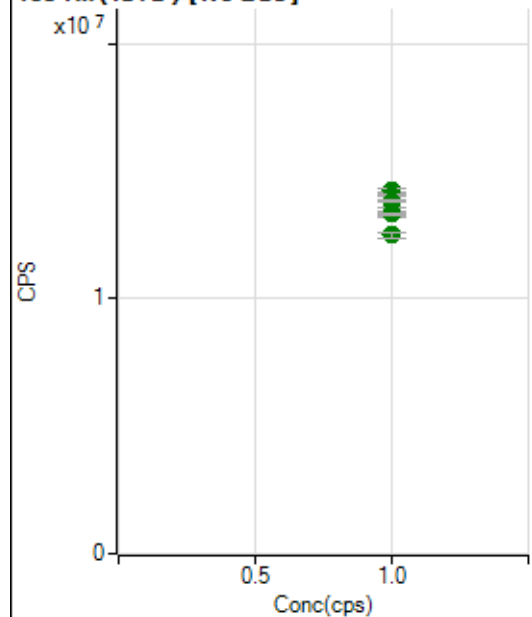
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		683572.18		P	0.7
2	☐	1.000		684830.06		P	0.3
3	☐	1.000		670069.79		P	0.3
4	☐	1.000		644391.21		P	0.8
5	☐	1.000		625186.76		P	0.3
6	☐	1.000		624109.75		P	0.2
7	☐	1.000		641596.05		P	0.9
8	☐	1.000		672516.38		P	1.0

89 Y (ISTD) [No Gas]

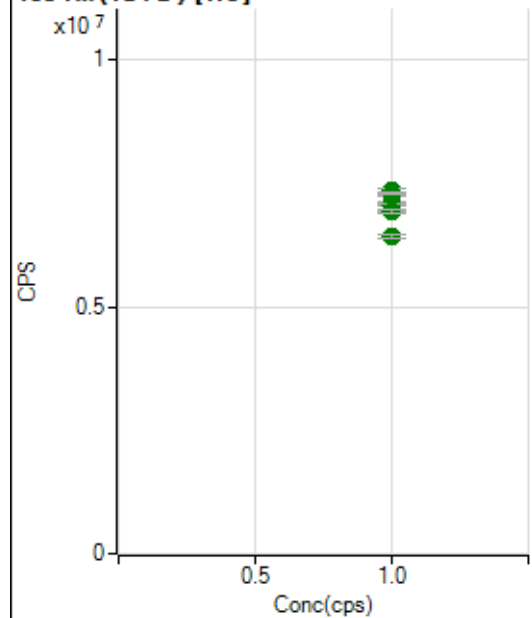
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		24099692.42		A	0.6
2	☐	1.000		24232036.86		A	0.3
3	☐	1.000		23847766.03		A	0.9
4	☐	1.000		23467619.93		A	0.4
5	☐	1.000		23416002.15		A	0.7
6	☐	1.000		23387859.37		A	1.1
7	☐	1.000		23990333.25		A	1.2
8	☐	1.000		23845369.92		A	1.0

89 Y (ISTD) [He]

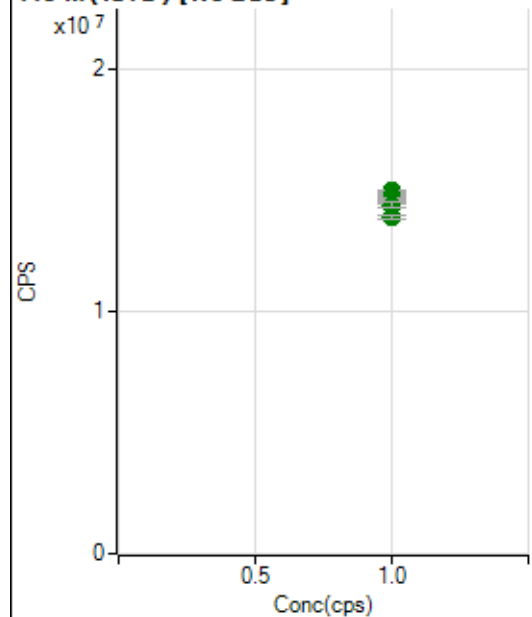
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4239435.25		P	0.7
2	☐	1.000		4293433.72		P	0.7
3	☐	1.000		4242337.09		P	0.5
4	☐	1.000		4123526.15		P	0.2
5	☐	1.000		4077077.79		P	0.4
6	☐	1.000		4067658.83		P	0.1
7	☐	1.000		4173693.51		P	0.6
8	☐	1.000		4233434.38		P	1.4

103 Rh (ISTD) [No Gas]

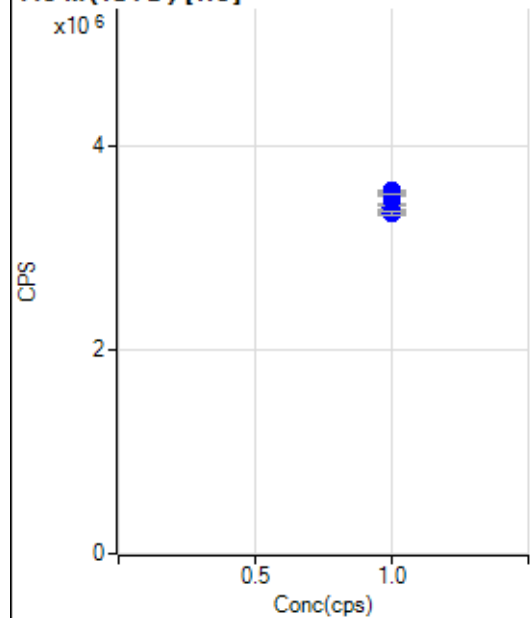
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14065031.04		A	0.1
2	☐	1.000		14216608.12		A	1.2
3	☐	1.000		14042620.21		A	0.5
4	☐	1.000		13797042.71		A	0.5
5	☐	1.000		13448031.74		A	1.4
6	☐	1.000		13301682.99		A	1.3
7	☐	1.000		13315087.58		A	0.7
8	☐	1.000		12472576.34		A	1.4

103 Rh (ISTD) [He]

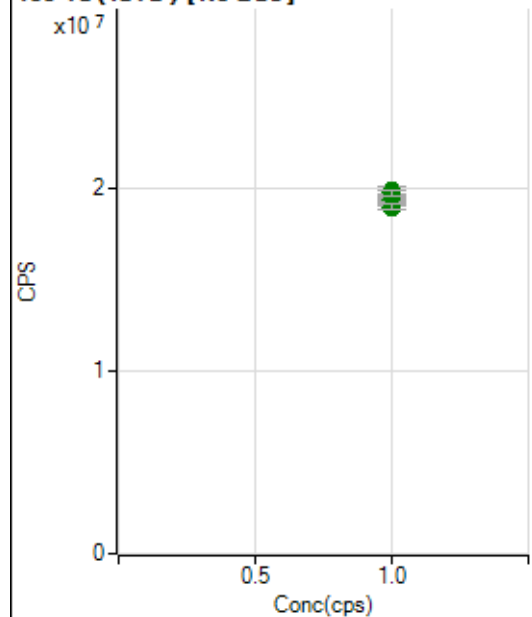
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7287336.35		A	0.9
2	☐	1.000		7348028.22		A	1.2
3	☐	1.000		7291882.12		A	0.4
4	☐	1.000		7081498.64		A	0.8
5	☐	1.000		7044505.24		A	1.5
6	☐	1.000		6947522.67		A	0.1
7	☐	1.000		6926050.80		A	0.9
8	☐	1.000		6434384.84		A	1.3

115 In (ISTD) [No Gas]

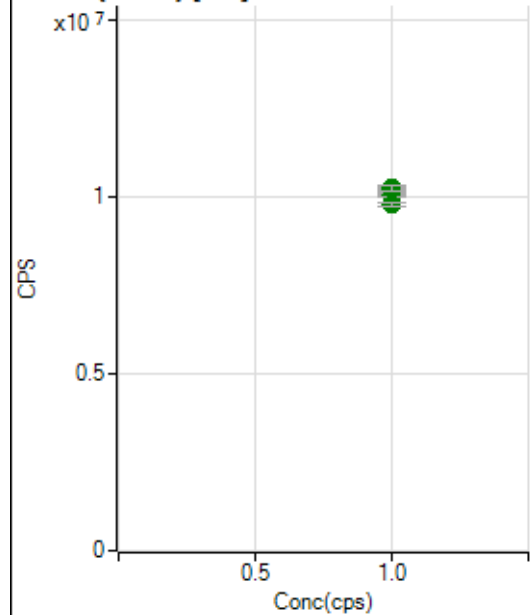
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14752671.72		A	0.7
2	☐	1.000		14879554.17		A	1.7
3	☐	1.000		14967134.29		A	0.4
4	☐	1.000		14735974.89		A	0.3
5	☐	1.000		14476988.99		A	1.0
6	☐	1.000		14671972.88		A	0.5
7	☐	1.000		14389636.81		A	1.6
8	☐	1.000		13848770.83		A	1.1

115 In (ISTD) [He]

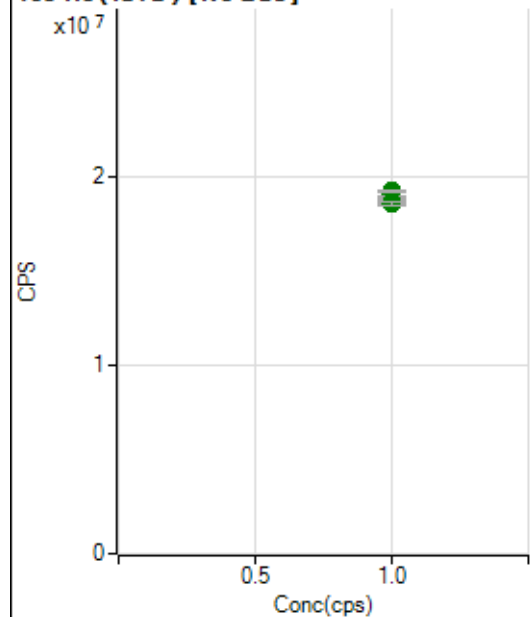
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3517698.02		P	0.4
2	☐	1.000		3561942.68		P	0.9
3	☐	1.000		3529186.83		P	0.2
4	☐	1.000		3435204.26		P	0.2
5	☐	1.000		3394884.89		P	0.8
6	☐	1.000		3367647.12		P	0.6
7	☐	1.000		3354696.59		P	0.9
8	☐	1.000		3336798.66		P	1.2

159 Tb (ISTD) [No Gas]

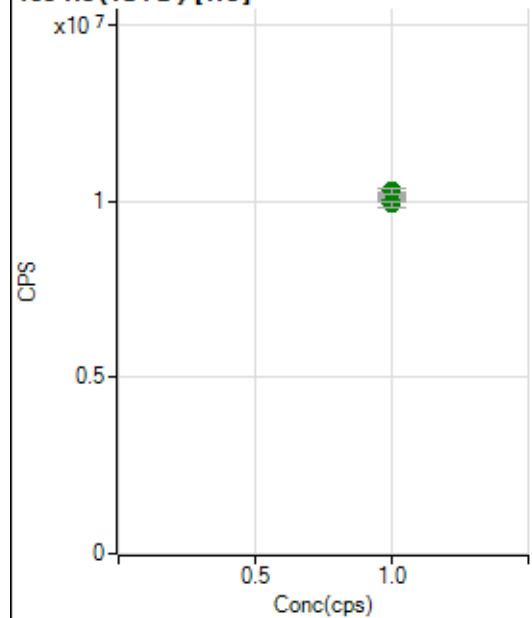
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19342838.46		A	1.0
2	☐	1.000		19398180.55		A	0.8
3	☐	1.000		19165170.13		A	0.9
4	☐	1.000		19237217.63		A	1.5
5	☐	1.000		19429788.18		A	1.4
6	☐	1.000		19895889.98		A	2.1
7	☐	1.000		19785712.62		A	1.7
8	☐	1.000		19026195.55		A	1.5

159 Tb (ISTD) [He]

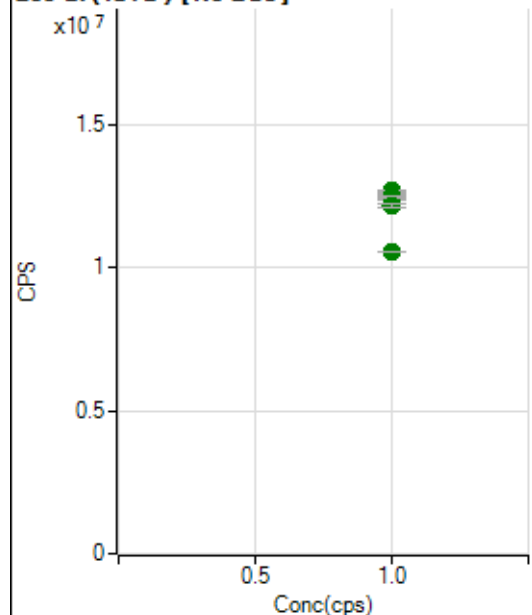
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10028462.42		A	0.5
2	☐	1.000		10175681.72		A	1.1
3	☐	1.000		10217197.69		A	0.9
4	☐	1.000		10075788.04		A	1.0
5	☐	1.000		10070436.59		A	1.1
6	☐	1.000		10058801.79		A	1.5
7	☐	1.000		10247268.95		A	1.6
8	☐	1.000		9779472.01		A	0.8

165 Ho (ISTD) [No Gas]

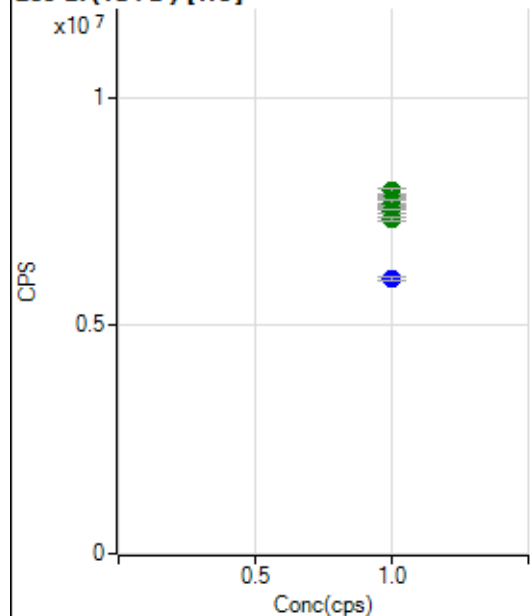
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18675900.14		A	1.5
2	☐	1.000		18771844.17		A	0.5
3	☐	1.000		18682711.94		A	0.5
4	☐	1.000		18731456.11		A	0.9
5	☐	1.000		18998445.97		A	1.5
6	☐	1.000		19073592.49		A	1.2
7	☐	1.000		19255834.43		A	0.7
8	☐	1.000		18590186.53		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10072895.33		A	1.0
2	☐	1.000		10163241.24		A	1.4
3	☐	1.000		10113382.56		A	1.2
4	☐	1.000		10046191.45		A	0.8
5	☐	1.000		10173796.24		A	0.9
6	☐	1.000		10122617.49		A	1.0
7	☐	1.000		10293108.18		A	1.4
8	☐	1.000		9902797.63		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12410271.62		A	0.7
2	☐	1.000		12500422.17		A	1.1
3	☐	1.000		12631510.23		A	1.9
4	☐	1.000		12485402.87		A	0.9
5	☐	1.000		12694015.50		A	0.3
6	☐	1.000		12499090.23		A	0.6
7	☐	1.000		12177281.21		A	1.1
8	☐	1.000		10577334.01		A	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7816561.55		A	0.5
2	☐	1.000		7950605.09		A	1.8
3	☐	1.000		7756224.33		A	0.6
4	☐	1.000		7624494.19		A	1.0
5	☐	1.000		7674257.94		A	1.7
6	☐	1.000		7484177.94		A	1.2
7	☐	1.000		7334068.85		A	0.8
8	☐	1.000		6019708.66		P	1.2

US EPA Tune Check Sample Report

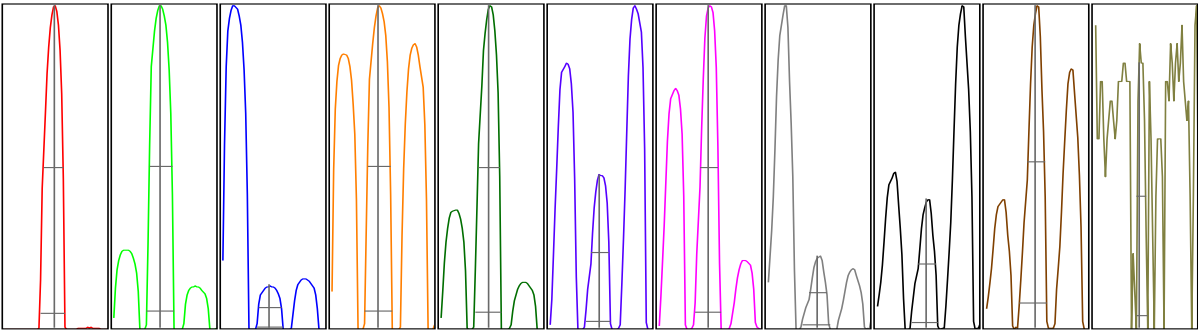
Batch Folder C:\Agilent\ICPMH\1\DATA\P7101320M .b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	13062	4.75	5.00	
24	262739	4.67	5.00	
25	35376	4.83	5.00	
26	41140	4.98	5.00	
59	111379	4.69	5.00	
113	17549	4.48	5.00	
115	49023	4.66	5.00	
206	22768	4.27	5.00	
207	19296	3.96	5.00	
208	47048	3.97	5.00	
220	0	32.97		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	13337	13428	11963	13207	13376
24	267708	268326	240814	267704	269140
25	36121	36234	32325	36055	36147
26	41933	42061	37477	41996	42233
59	113431	114076	102093	112975	114323
113	17902	17981	16145	17870	17848
115	50022	50421	44982	49517	50172
206	23328	23125	21038	23251	23100
207	19724	19731	17940	19585	19503
208	47712	48130	43716	47935	47747
220	1	0	1	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	23851	9.00	8.9 - 9.1		0.729	0.900	
24	425396	23.90	23.9 - 24.1		0.785	0.900	
25	56659	24.90	24.9 - 25.1		0.777	0.900	
26	66530	25.90	25.9 - 26.1		0.786	0.900	
59	189833	58.95	58.9 - 59.1		0.781	0.900	
113	33020	113.00	112.9 - 113.1		0.734	0.900	
115	93199	115.00	114.9 - 115.1		0.760	0.900	
206	44576	206.00	205.9 - 206.1		0.796	0.900	
207	37043	207.00	206.9 - 207.1		0.779	0.900	
208	92310	208.00	207.9 - 208.1		0.786	0.900	
220	1	219.85	-		0.340		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.70	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.3	V	Deflect	13.6	V
Extract 2	-190.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-90	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	190	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	32732	1.97	
89	24657	1.82	
205	62672	2.90	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	33461	31883	32260	32942	33114
89	25136	24127	24236	24859	24929
205	63760	59512	62769	63458	63860

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.70	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.0	V	Deflect	2.0	V
Extract 2	-180.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-90	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			