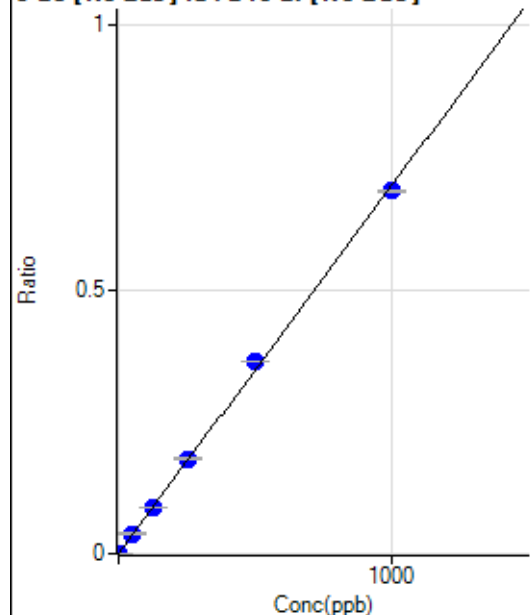


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072720MS.b\
Analysis File: P8072720MS.batch.bin
DA Date-Time: 2020-07-27 18:54:44
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-07-27 10:59:25
2	007CALS.d	S02	2020-07-27 11:05:37
3	008CALS.d	S03	2020-07-27 11:08:44
4	009CALS.d	S04	2020-07-27 11:11:48
5	010CALS.d	S05	2020-07-27 11:14:51
6	011CALS.d	S06	2020-07-27 11:17:49
7	012CALS.d	S07	2020-07-27 11:20:49
8	013CALS.d	S08	2020-07-27 11:23:48

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	49.32	0.0000	P	9.3
2	☐	1.000	0.937	909.19	0.0007	P	10.0
3	☐	50.000	54.413	48553.07	0.0379	P	8.1
4	☐	125.000	125.408	122241.53	0.0873	P	4.0
5	☐	250.000	258.338	248284.82	0.1798	P	1.9
6	☐	500.000	522.156	507128.20	0.3635	P	0.5
7	☐	1000.000	986.566	995911.53	0.6867	P	0.7
8	☐			323.94	0.0002	P	5.1

$$y = 6.9600\text{E-}004 * x + 3.7177\text{E-}005$$

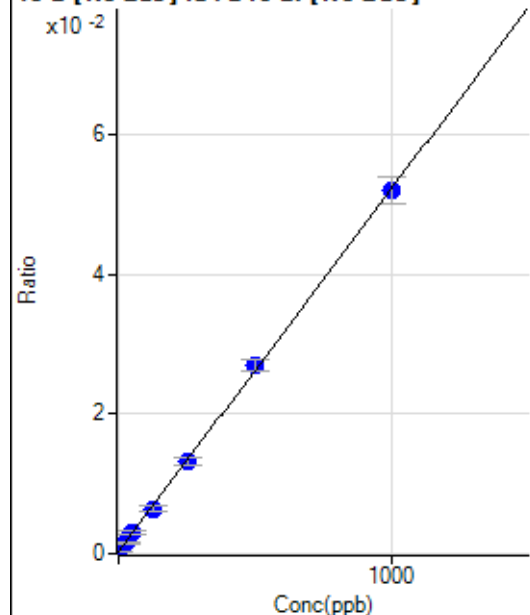
$$R = 0.9996$$

$$DL = 0.01496$$

$$BEC = 0.05341$$

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	411.26	0.0003	P	3.3
2	☐	25.000	23.447	2018.41	0.0015	P	5.8
3	☐	50.000	51.715	3823.75	0.0030	P	13.5
4	☐	125.000	117.887	8981.65	0.0064	P	10.1
5	☐	250.000	248.938	18248.41	0.0132	P	8.7
6	☐	500.000	513.392	37600.47	0.0269	P	6.9
7	☐	1000.000	994.412	75242.19	0.0519	P	7.4
8	☐			11619.62	0.0085	P	6.8

$$y = 5.1864\text{E-}005 * x + 3.0943\text{E-}004$$

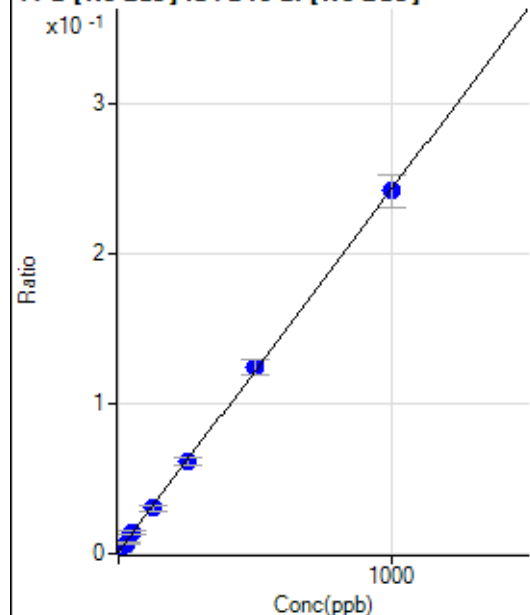
$$R = 0.9998$$

$$DL = 0.5907$$

$$BEC = 5.966$$

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	1891.75	0.0014	P	3.6
2	☐	25.000	23.104	9269.10	0.0070	P	2.3
3	☐	50.000	52.450	18036.82	0.0141	P	11.3
4	☐	125.000	119.637	42398.54	0.0303	P	11.0
5	☐	250.000	249.869	85301.14	0.0618	P	9.0
6	☐	500.000	509.270	173773.95	0.1245	P	8.1
7	☐	1000.000	995.993	351070.48	0.2421	P	8.8
8	☐			53522.45	0.0391	P	7.0

$$y = 2.4163\text{E-}004 * x + 0.0014$$

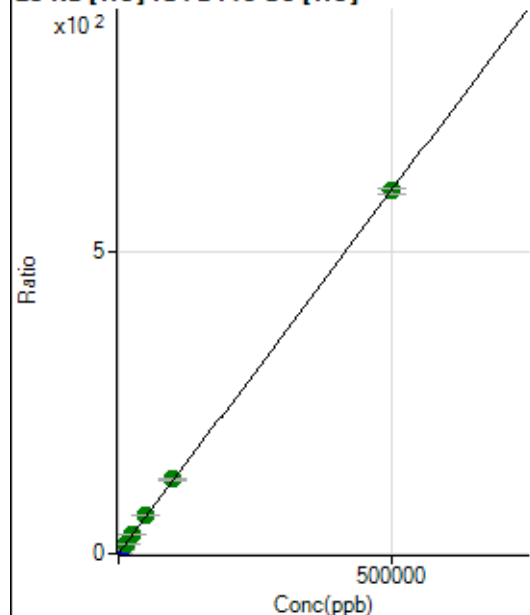
R = 0.9999

DL = 0.6371

BEC = 5.89

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	32531.19	0.2523	P	1.9
2	☐	500.000	469.173	105572.21	0.8153	P	1.0
3	☐	5000.000	5334.540	845912.36	6.6541	P	0.3
4	☐	12500.000	12742.394	2039286.18	15.5441	A	1.2
5	☐	25000.000	26050.338	4023375.39	31.5147	A	2.2
6	☐	50000.000	52940.531	8173917.80	63.7851	A	0.4
7	☐	100000.00	101974.04	15603094.62	122.6291	A	1.0
8	☐	500000.00	499249.24	74303734.30	599.3905	A	1.6

$$y = 0.0012 * x + 0.2523$$

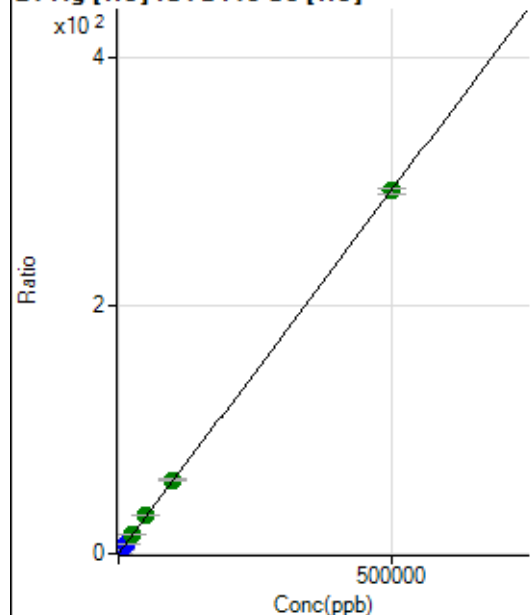
R = 1.0000

DL = 12.06

BEC = 210.2

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2278.02	0.0177	P	5.0
2	☐	500.000	466.330	37676.97	0.2910	P	2.2
3	☐	5000.000	5391.297	403872.31	3.1772	P	1.3
4	☐	12500.000	12997.144	1001582.88	7.6346	P	1.6
5	☐	25000.000	26423.313	1979114.95	15.5029	A	2.5
6	☐	50000.000	53167.478	3994885.76	31.1761	A	1.4
7	☐	100000.00	101816.32	7594350.08	59.6864	A	0.7
8	☐	500000.00	499232.51	36270726.85	292.5896	A	1.9

$$y = 5.8604\text{E-}004 * x + 0.0177$$

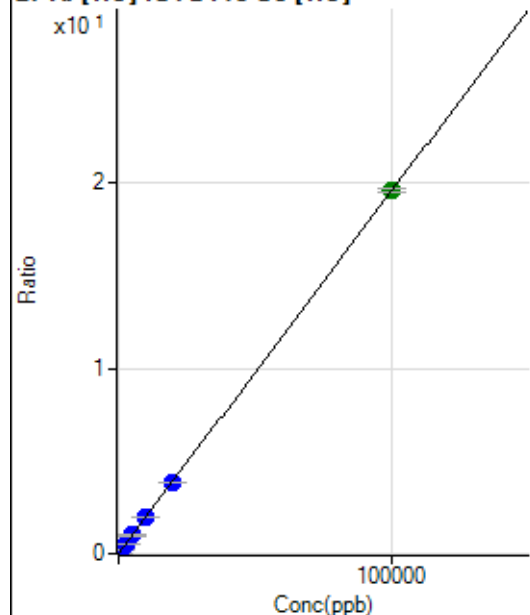
R = 1.0000

DL = 4.557

BEC = 30.15

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1089.83	0.0084	P	0.8
2	☐	20.000	19.404	1585.78	0.0122	P	4.0
3	☐	1000.000	1000.577	25965.22	0.2043	P	1.4
4	☐	2500.000	2456.445	64172.74	0.4892	P	1.9
5	☐	5000.000	5017.050	126426.63	0.9903	P	2.2
6	☐	10000.000	10189.060	256597.11	2.0025	P	1.4
7	☐	20000.000	19651.176	490397.22	3.8542	P	0.5
8	☐	100000.00	100051.09	2428343.96	19.5886	A	1.2

$$y = 1.9570\text{E-}004 * x + 0.0084$$

R = 1.0000

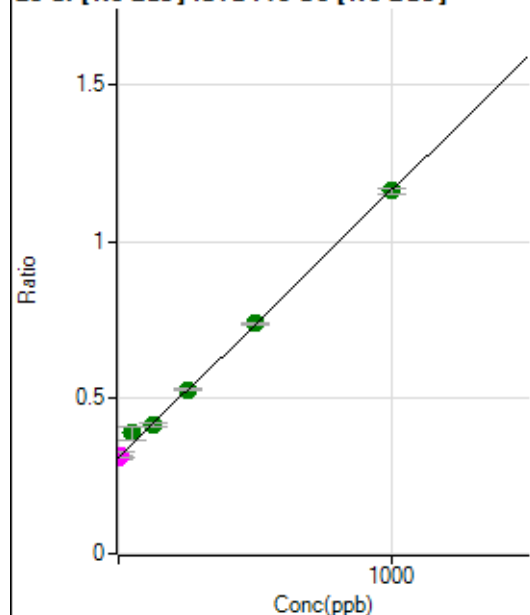
DL = 1.097

BEC = 43.17

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	889037.44	0.3067	M	4.9
2	☐	10.000	11.186	904873.51	0.3163	M	5.4
3	☐	50.000	92.452	1065849.86	0.3860	A	11.3
4	☐	125.000	123.209	1245318.04	0.4123	A	3.7
5	☐	250.000	254.713	1580643.05	0.5251	A	0.5
6	☐	500.000	501.118	2211025.33	0.7365	A	0.6
7	☐	1000.000	996.352	3649186.19	1.1613	A	1.8
8	☐			1288539.59	0.4312	A	6.1

$$y = 8.5773E-004 * x + 0.3067$$

R = 0.9991

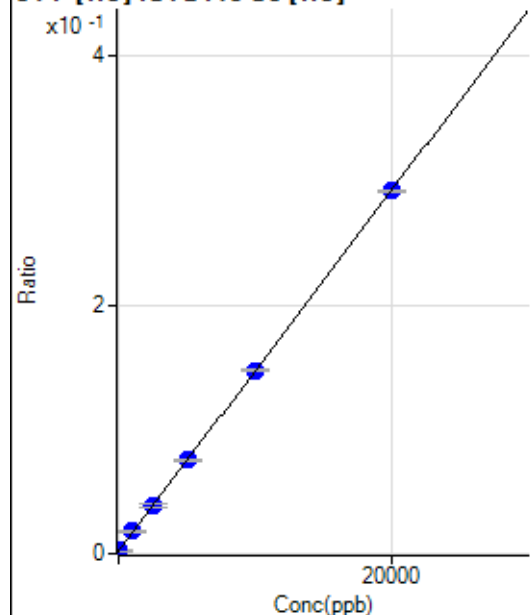
DL = 52.38

BEC = 357.5

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	18.247	300.01	0.0023	P	25.6
2	☐	0.000	-18.247	233.34	0.0018	P	9.2
3	☐	1000.000	1105.250	2300.25	0.0181	P	4.7
4	☐	2500.000	2523.884	5070.44	0.0386	P	6.1
5	☐	5000.000	5050.891	9611.76	0.0753	P	1.2
6	☐	10000.000	10017.583	18870.96	0.1473	P	1.4
7	☐	20000.000	19970.238	37092.42	0.2915	P	0.5
8	☐			266.68	0.0022	P	16.5

$$y = 1.4495E-005 * x + 0.0021$$

R = 1.0000

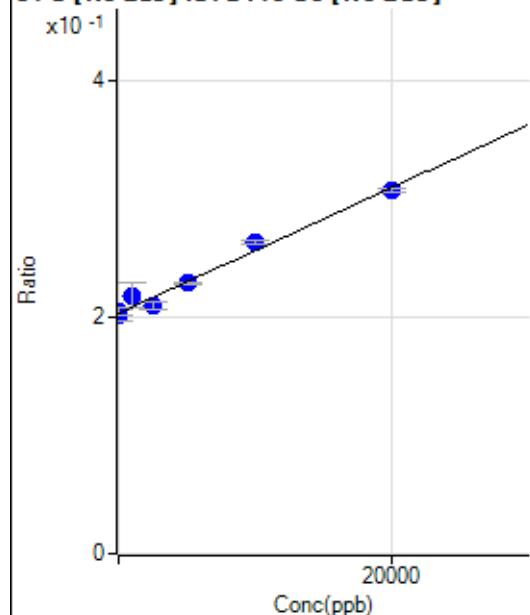
DL = 78.8

BEC = 142.6

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	-303.472	585085.02	0.2019	P	5.5
2	☐	0.000	303.472	587033.37	0.2051	P	3.8
3	☐	1000.000	2780.112	603398.71	0.2183	P	9.7
4	☐	2500.000	1234.594	634410.49	0.2101	P	3.3
5	☐	5000.000	4777.942	689047.34	0.2289	P	0.8
6	☐	10000.000	11334.042	792054.53	0.2639	P	1.1
7	☐	20000.000	19457.664	964967.37	0.3071	P	1.2
8	☐			587642.13	0.1965	P	3.1

$$y = 5.3274\text{E-}006 * x + 0.2035$$

$$R = 0.9892$$

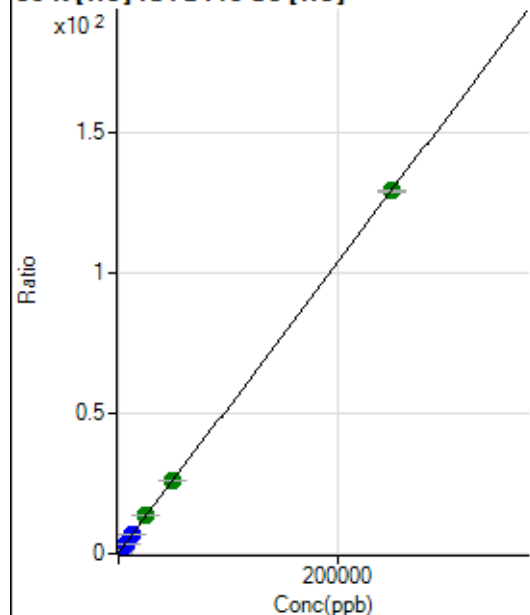
$$DL = 5286$$

$$BEC = 3.819\text{E}+04$$

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	38516.02	0.2987	P	3.9
2	☐	500.000	440.615	68164.00	0.5264	P	1.3
3	☐	2500.000	2669.885	213362.99	1.6784	P	1.0
4	☐	6250.000	6484.415	478774.83	3.6496	P	1.8
5	☐	12500.000	13225.831	910751.69	7.1333	P	1.4
6	☐	25000.000	26236.100	1775423.46	13.8564	A	2.5
7	☐	50000.000	50044.037	3328318.21	26.1593	A	0.9
8	☐	250000.00	249823.85	16041369.46	129.3968	A	0.5

$$y = 5.1676\text{E-}004 * x + 0.2987$$

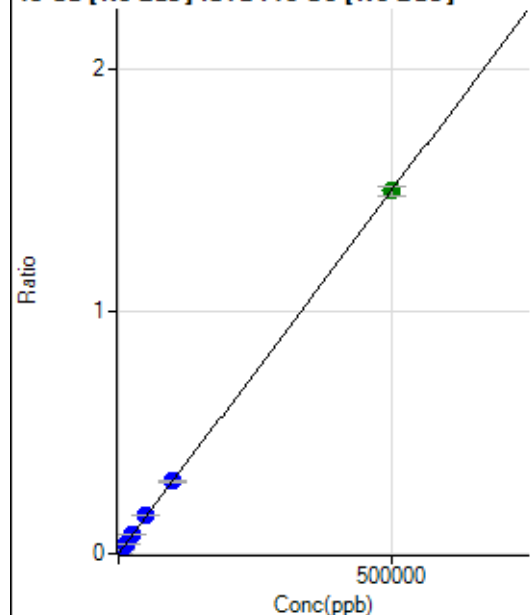
$$R = 1.0000$$

$$DL = 67.23$$

$$BEC = 578.1$$

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	1172.30	0.0004	P	10.1
2	☐	500.000	432.428	4859.29	0.0017	P	1.9
3	☐	5000.000	5523.129	46782.81	0.0169	P	9.1
4	☐	12500.000	12290.180	112221.57	0.0371	P	2.4
5	☐	25000.000	25383.673	229639.94	0.0763	P	0.8
6	☐	50000.000	52808.956	475159.16	0.1583	P	1.0
7	☐	100000.00	99322.388	934221.60	0.2973	P	1.1
8	☐	500000.00	499835.52	4469271.24	1.4948	A	2.9

$$y = 2.9897E-006 * x + 4.0405E-004$$

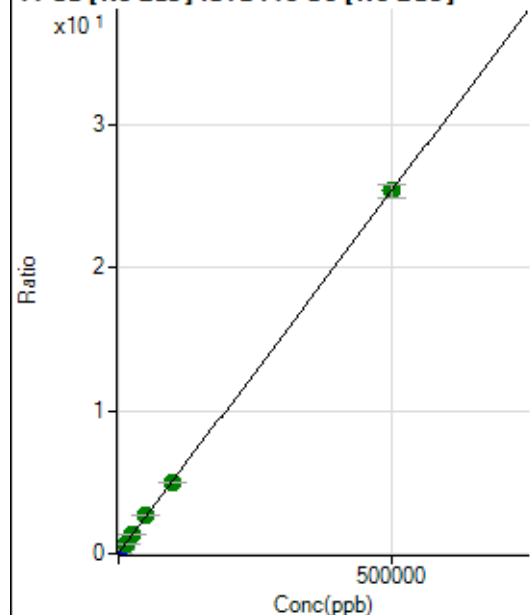
R = 1.0000

DL = 41.02

BEC = 135.1

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	120589.46	0.0416	P	5.5
2	☐	500.000	476.182	188145.96	0.0657	P	4.3
3	☐	5000.000	5909.382	942094.93	0.3411	P	11.2
4	☐	12500.000	12508.223	2040766.56	0.6756	A	3.2
5	☐	25000.000	25531.088	4020481.14	1.3357	A	0.7
6	☐	50000.000	51682.899	7988060.19	2.6614	A	2.5
7	☐	100000.00	98440.177	15809050.88	5.0314	A	0.3
8	☐	500000.00	500107.84	75913310.24	25.3915	A	3.4

$$y = 5.0689E-005 * x + 0.0416$$

R = 1.0000

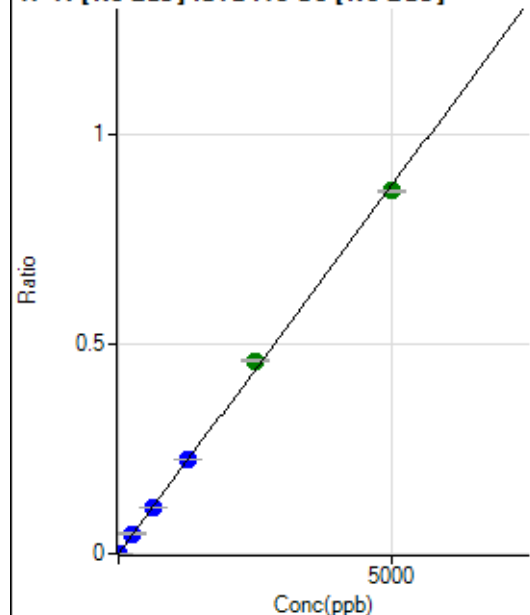
DL = 134.6

BEC = 820.8

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	811.16	0.0003	P	10.9
2	☐	5.000	4.724	3178.20	0.0011	P	3.8
3	☐	250.000	270.671	131937.98	0.0478	P	10.7
4	☐	625.000	626.507	332786.49	0.1102	P	3.1
5	☐	1250.000	1271.661	672312.56	0.2233	P	0.3
6	☐	2500.000	2624.464	1382734.72	0.4607	A	1.7
7	☐	5000.000	4931.131	2718926.45	0.8653	A	0.8
8	☐			911.17	0.0003	P	4.8

$$y = 1.7542\text{E-}004 * x + 2.7964\text{E-}004$$

$$R = 0.9995$$

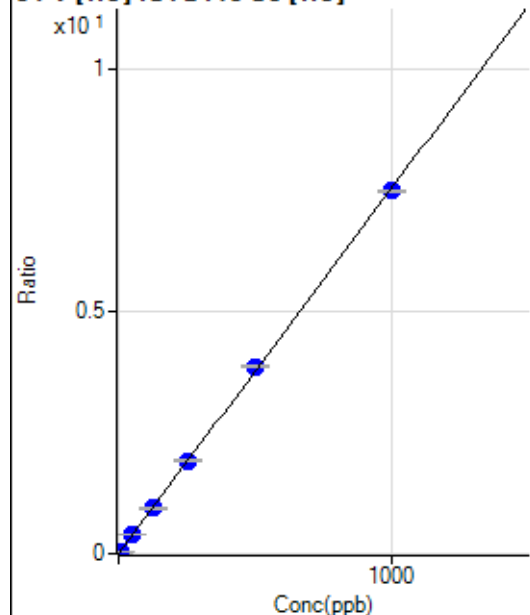
$$DL = 0.5197$$

$$BEC = 1.594$$

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	0.0001	P	89.4
2	☐	5.000	4.712	4610.79	0.0356	P	2.3
3	☐	50.000	50.615	48491.83	0.3815	P	0.8
4	☐	125.000	123.965	122537.98	0.9341	P	2.0
5	☐	250.000	254.280	244583.77	1.9160	P	2.9
6	☐	500.000	511.173	493546.03	3.8515	P	1.0
7	☐	1000.000	993.444	952363.61	7.4852	P	0.4
8	☐			182.23	0.0015	P	24.6

$$y = 0.0075 * x + 1.0264\text{E-}004$$

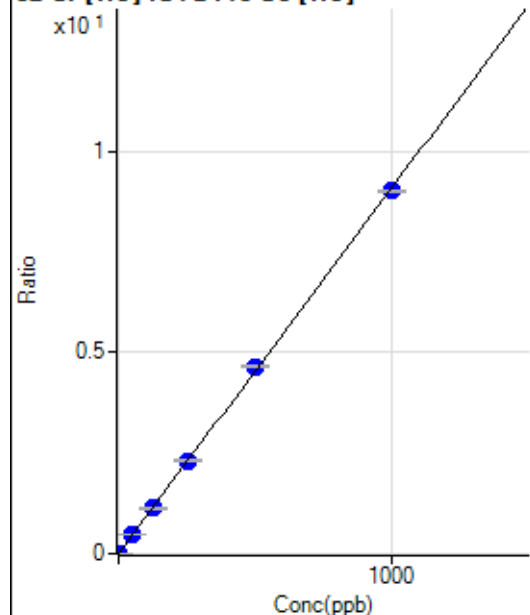
$$R = 0.9999$$

$$DL = 0.03653$$

$$BEC = 0.01362$$

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	478.90	0.0037	P	9.8
2	☐	2.000	1.832	2631.38	0.0203	P	3.1
3	☐	50.000	50.311	58481.35	0.4601	P	1.6
4	☐	125.000	123.510	147462.26	1.1241	P	1.6
5	☐	250.000	254.677	295426.50	2.3139	P	1.3
6	☐	500.000	511.974	595557.17	4.6478	P	1.5
7	☐	1000.000	993.014	1146528.48	9.0112	P	0.7
8	☐			5049.83	0.0407	P	3.2

$$y = 0.0091 * x + 0.0037$$

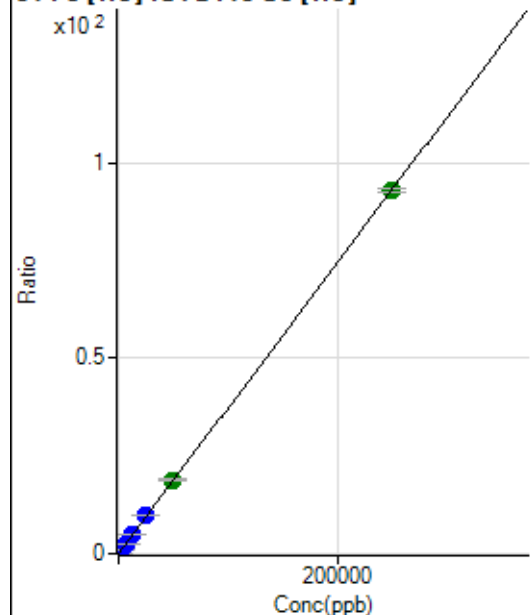
$$R = 0.9999$$

$$DL = 0.1204$$

$$BEC = 0.4088$$

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	418.53	0.0032	P	7.8
2	☐	50.000	49.333	2792.92	0.0216	P	5.6
3	☐	2500.000	2576.454	122044.26	0.9602	P	2.4
4	☐	6250.000	6318.400	308282.05	2.3500	P	1.8
5	☐	12500.000	12947.199	614350.95	4.8120	P	1.9
6	☐	25000.000	26054.502	1240445.60	9.6802	P	1.0
7	☐	50000.000	50682.700	2395616.58	18.8274	A	1.6
8	☐	250000.00	249733.17	11498887.64	92.7574	A	1.1

$$y = 3.7141E-004 * x + 0.0032$$

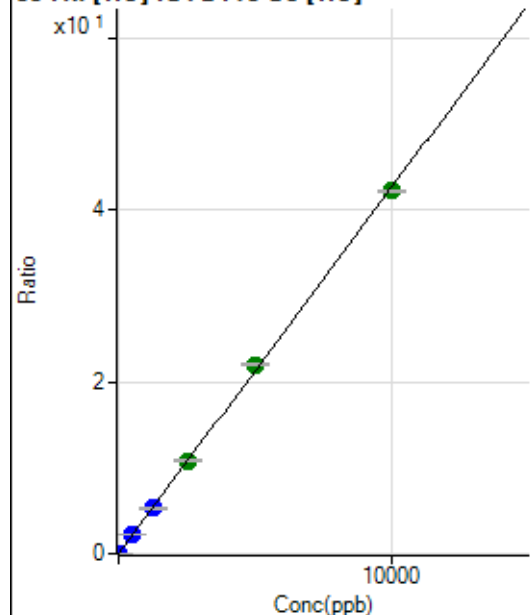
$$R = 1.0000$$

$$DL = 2.044$$

$$BEC = 8.734$$

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	140.00	0.0011	P	20.8
2	☐	1.000	0.940	660.02	0.0051	P	9.9
3	☐	500.000	513.577	278509.38	2.1909	P	1.0
4	☐	1250.000	1236.061	691589.69	5.2716	P	1.6
5	☐	2500.000	2537.545	1381509.81	10.8210	A	1.9
6	☐	5000.000	5166.632	2823110.41	22.0312	A	1.1
7	☐	10000.000	9908.361	5375585.54	42.2495	A	0.5
8	☐			3457.12	0.0279	P	1.4

$$y = 0.0043 * x + 0.0011$$

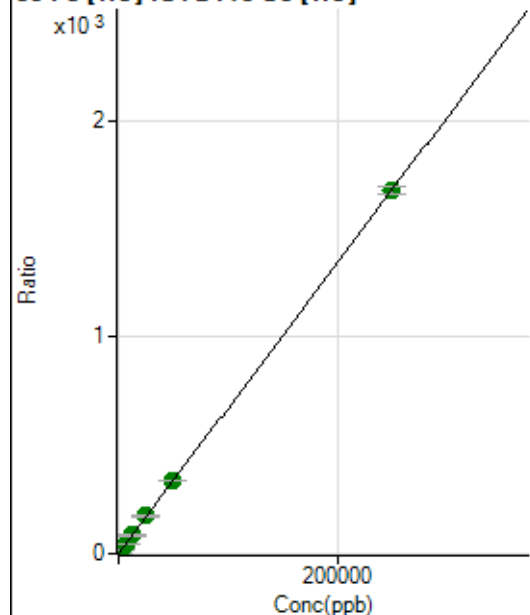
$$R = 0.9998$$

$$DL = 0.1595$$

$$BEC = 0.2552$$

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	3719.07	0.0289	P	6.0
2	☐	50.000	45.797	43497.83	0.3359	P	1.9
3	☐	2500.000	2585.958	2207735.45	17.3670	A	0.8
4	☐	6250.000	6179.668	5439371.19	41.4619	A	1.7
5	☐	12500.000	12654.305	10835887.16	84.8727	A	1.7
6	☐	25000.000	25926.794	22278063.46	173.8612	A	1.7
7	☐	50000.000	50138.293	42775401.42	336.1930	A	0.5
8	☐	250000.00	249872.84	207685397.2	1,675.360	A	2.1

$$y = 0.0067 * x + 0.0289$$

$$R = 1.0000$$

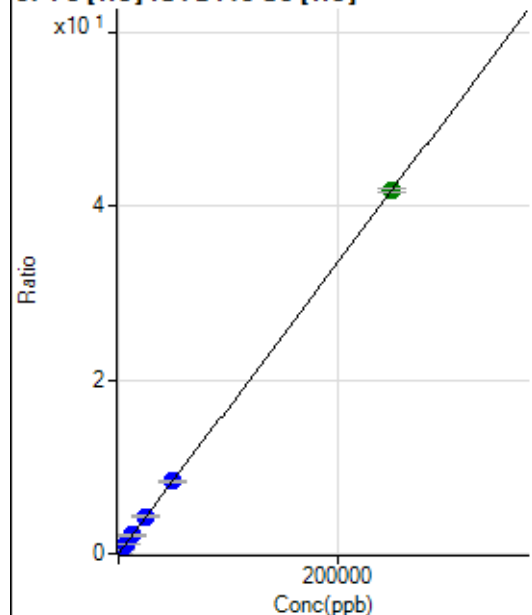
$$DL = 0.7797$$

$$BEC = 4.304$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	285.19	0.0022	P	27.2
2	☐	50.000	41.338	1181.55	0.0091	P	11.6
3	☐	2500.000	2525.781	53925.90	0.4243	P	2.4
4	☐	6250.000	6152.817	135165.37	1.0303	P	1.6
5	☐	12500.000	12591.683	268903.84	2.1062	P	1.8
6	☐	25000.000	25729.881	551203.83	4.3015	P	1.1
7	☐	50000.000	49918.390	1061587.02	8.3433	P	1.1
8	☐	250000.00	249940.92	5177673.61	41.7660	A	1.0

$$y = 1.6709E-004 * x + 0.0022$$

R = 1.0000

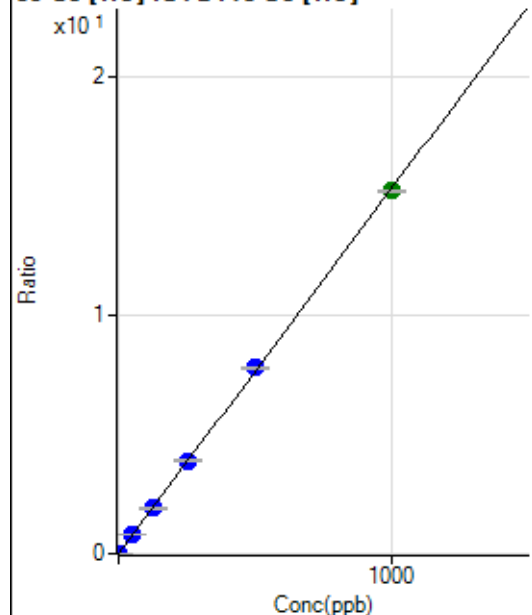
DL = 10.82

BEC = 13.28

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32.22	0.0002	P	22.9
2	☐	1.000	0.938	1894.59	0.0146	P	3.4
3	☐	50.000	50.934	99312.37	0.7814	P	2.5
4	☐	125.000	124.020	249529.62	1.9022	P	2.1
5	☐	250.000	255.158	499616.40	3.9133	P	1.7
6	☐	500.000	509.979	1002206.26	7.8211	P	1.2
7	☐	1000.000	993.797	1939134.95	15.2408	A	0.8
8	☐			3270.41	0.0264	P	3.5

$$y = 0.0153 * x + 2.4937E-004$$

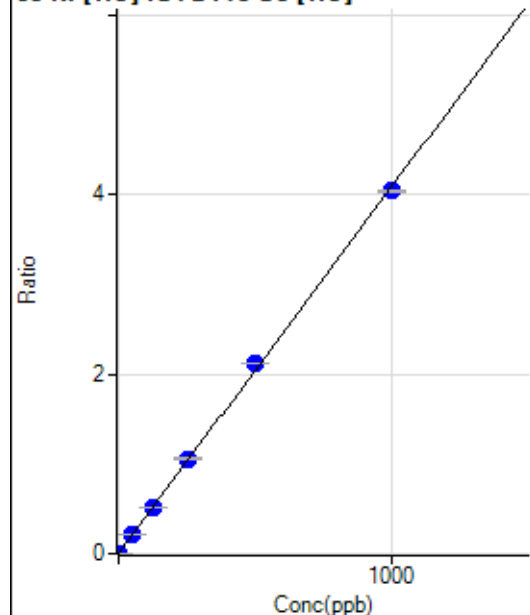
R = 0.9999

DL = 0.01117

BEC = 0.01626

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	301.12	0.0023	P	9.5
2	☐	1.000	0.867	761.14	0.0059	P	3.7
3	☐	50.000	51.832	27216.09	0.2141	P	2.7
4	☐	125.000	125.155	67402.08	0.5137	P	0.8
5	☐	250.000	257.007	134372.33	1.0525	P	1.9
6	☐	500.000	517.735	271397.79	2.1179	P	0.5
7	☐	1000.000	989.270	514609.12	4.0446	P	0.7
8	☐			1845.69	0.0149	P	5.0

$$y = 0.0041 * x + 0.0023$$

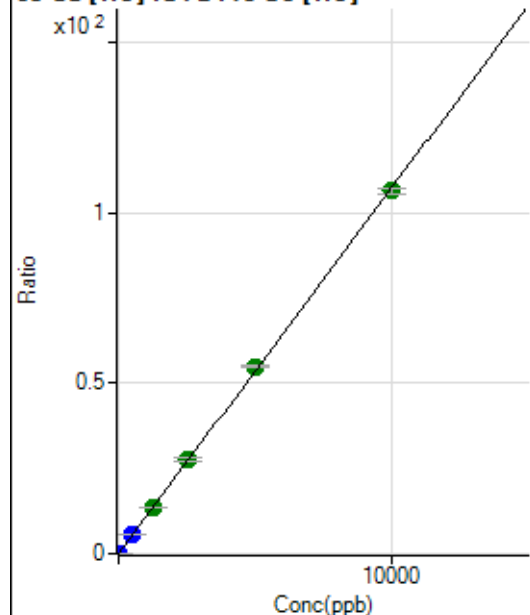
$$R = 0.9997$$

$$DL = 0.163$$

$$BEC = 0.5718$$

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	430.01	0.0033	P	9.1
2	☐	2.000	1.795	2924.77	0.0226	P	0.3
3	☐	500.000	520.126	709581.60	5.5821	P	1.0
4	☐	1250.000	1258.301	1770955.34	13.4995	A	1.7
5	☐	2500.000	2570.271	3519596.13	27.5713	A	3.2
6	☐	5000.000	5109.860	7023728.72	54.8102	A	0.9
7	☐	10000.000	9925.458	13545151.33	106.4610	A	1.5
8	☐			4220.68	0.0341	P	5.4

$$y = 0.0107 * x + 0.0033$$

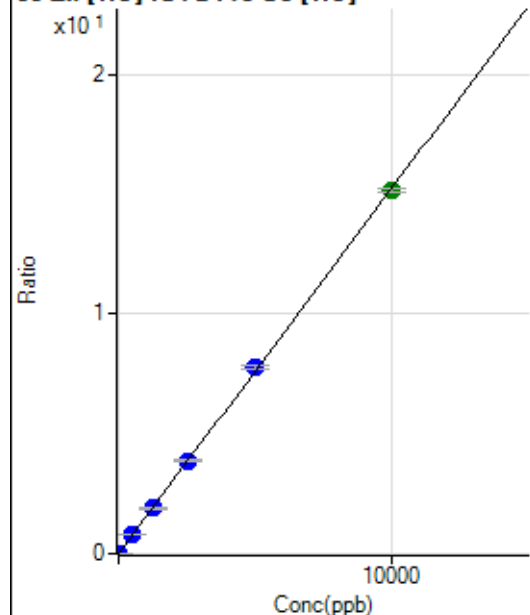
$$R = 0.9999$$

$$DL = 0.08476$$

$$BEC = 0.3106$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	254.45	0.0020	P	14.0
2	☐	2.000	2.083	665.58	0.0051	P	7.5
3	☐	500.000	509.366	98759.93	0.7770	P	2.5
4	☐	1250.000	1244.940	248747.71	1.8962	P	2.2
5	☐	2500.000	2546.586	494941.41	3.8768	P	2.1
6	☐	5000.000	5099.595	994538.02	7.7614	P	1.5
7	☐	10000.000	9938.720	1924367.46	15.1245	A	0.9
8	☐			2145.74	0.0173	P	2.4

$$y = 0.0015 * x + 0.0020$$

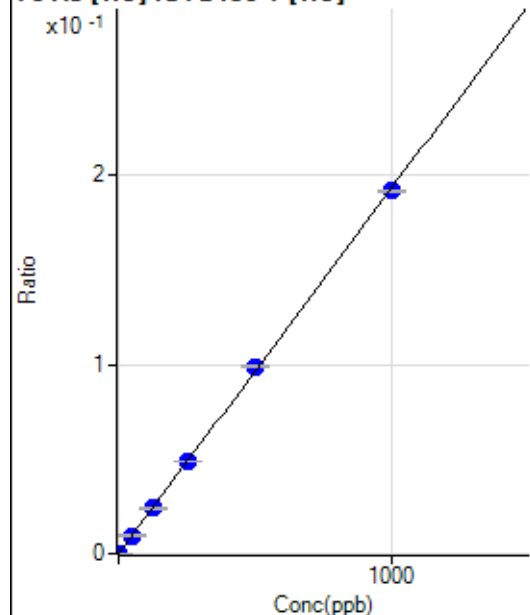
$$R = 0.9999$$

$$DL = 0.5427$$

$$BEC = 1.295$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	9.00	0.0000	P	33.2
2	☐	1.000	0.919	147.35	0.0002	P	3.4
3	☐	50.000	49.620	7533.44	0.0096	P	1.5
4	☐	125.000	123.934	19012.32	0.0240	P	2.7
5	☐	250.000	254.161	38369.93	0.0491	P	0.4
6	☐	500.000	512.279	77799.40	0.0990	P	1.2
7	☐	1000.000	992.973	150561.56	0.1919	P	0.5
8	☐			76.34	0.0001	P	5.0

$$y = 1.9327E-004 * x + 1.1507E-005$$

$$R = 0.9999$$

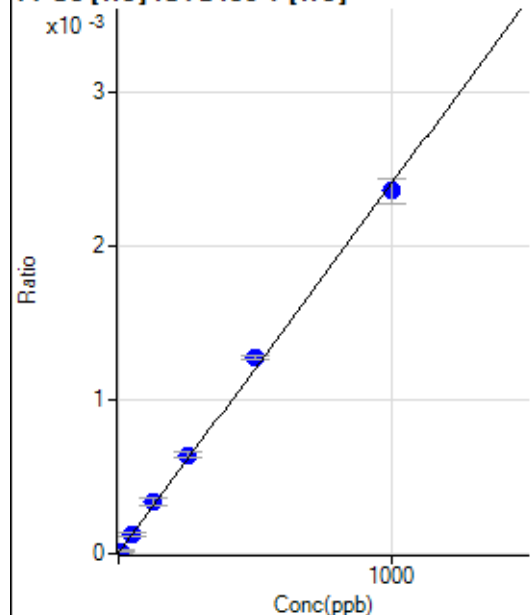
$$DL = 0.05925$$

$$BEC = 0.05954$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	0.5
2	☐	5.000	4.131	11.11	0.0000	P	68.0
3	☐	50.000	51.194	100.00	0.0001	P	22.8
4	☐	125.000	139.955	270.01	0.0003	P	14.9
5	☐	250.000	264.531	500.01	0.0006	P	5.7
6	☐	500.000	527.516	1000.05	0.0013	P	2.2
7	☐	1000.000	980.685	1853.47	0.0024	P	6.6
8	☐			3.33	0.0000	P	99.4

$$y = 2.4044\text{E-}006 * x + 4.2600\text{E-}006$$

$$R = 0.9992$$

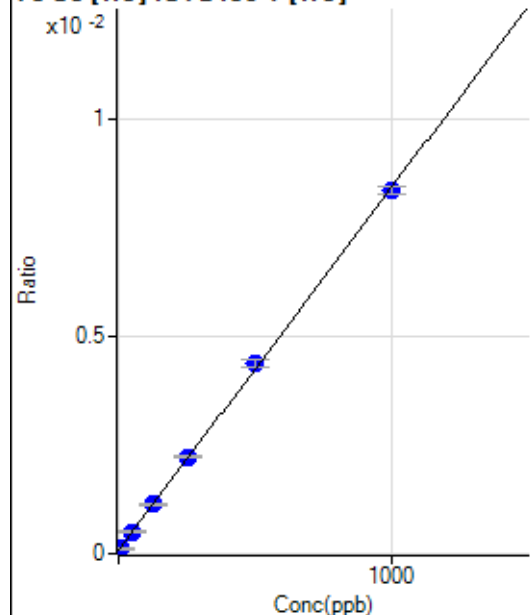
$$DL = 0.02794$$

$$BEC = 1.772$$

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	61.68	0.0001	P	9.4
2	☐	5.000	4.399	90.01	0.0001	P	11.0
3	☐	50.000	50.206	390.38	0.0005	P	7.5
4	☐	125.000	126.219	896.79	0.0011	P	4.7
5	☐	250.000	257.993	1740.95	0.0022	P	2.7
6	☐	500.000	514.236	3428.77	0.0044	P	3.7
7	☐	1000.000	990.724	6539.18	0.0083	P	2.1
8	☐			64.34	0.0001	P	11.3

$$y = 8.3333\text{E-}006 * x + 7.8925\text{E-}005$$

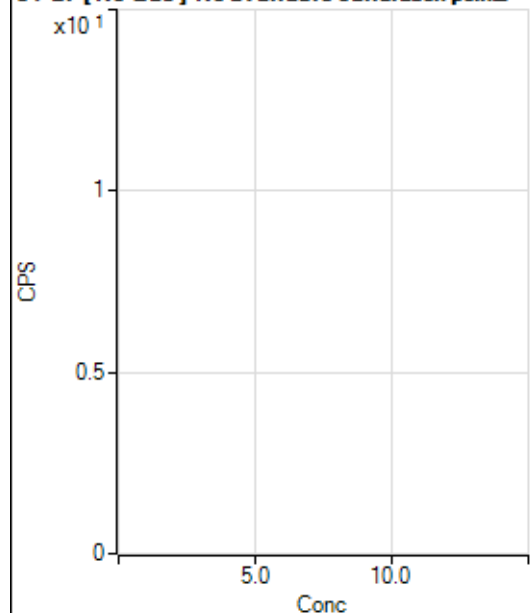
$$R = 0.9998$$

$$DL = 2.679$$

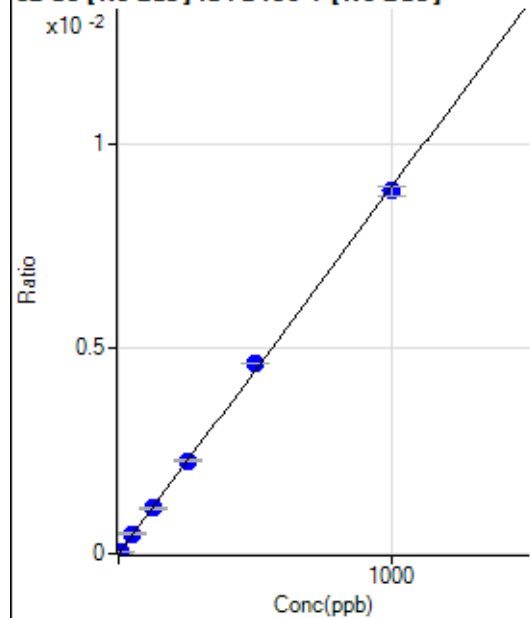
$$BEC = 9.471$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3634.23		P	6.7
2	☐			3597.50		P	5.1
3	☐			3700.99		P	6.8
4	☐			3714.32		P	2.6
5	☐			3640.91		P	5.2
6	☐			3754.37		P	5.1
7	☐			3597.51		P	7.7
8	☐			4141.55		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-18.48	0.0000	P	-225.
2	☐	5.000	5.281	262.48	0.0000	P	6.3
3	☐	50.000	54.086	2745.20	0.0005	P	8.3
4	☐	125.000	124.819	7037.31	0.0011	P	3.7
5	☐	250.000	253.145	14126.11	0.0023	P	2.3
6	☐	500.000	518.318	28994.37	0.0046	P	0.6
7	☐	1000.000	989.872	57336.45	0.0089	P	2.4
8	☐			71.61	0.0000	P	25.0

$$y = 8.9448\text{E-}006 * x - 3.2522\text{E-}006$$

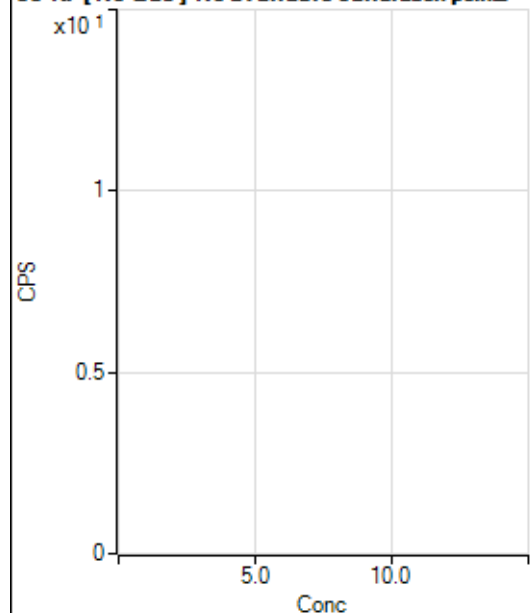
$$R = 0.9997$$

$$DL = 2.462$$

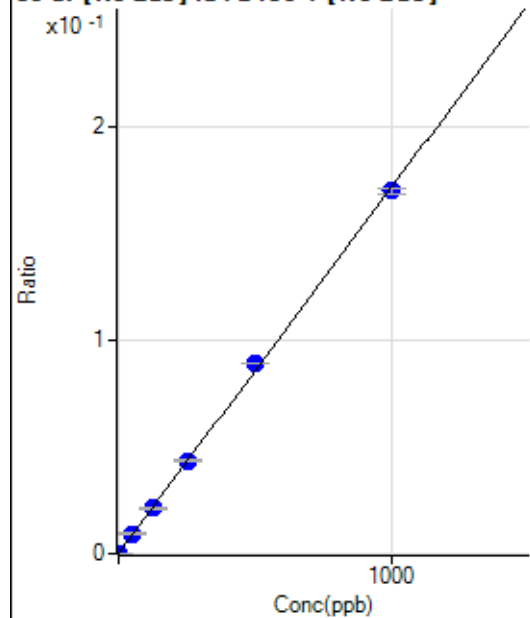
$$BEC = -0.3636$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			363.34		P	12.0
2	☐			351.12		P	10.2
3	☐			377.79		P	26.5
4	☐			358.90		P	9.3
5	☐			415.57		P	12.4
6	☐			385.57		P	17.1
7	☐			387.79		P	3.6
8	☐			400.01		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	536.14	0.0001	P	5.1
2	☐	1.000	0.886	1441.79	0.0002	P	2.0
3	☐	50.000	53.789	53031.45	0.0093	P	9.0
4	☐	125.000	123.245	133918.81	0.0212	P	3.9
5	☐	250.000	252.567	270671.35	0.0433	P	1.8
6	☐	500.000	517.853	555294.28	0.0887	P	0.2
7	☐	1000.000	990.462	1099020.35	0.1696	P	1.3
8	☐			6710.12	0.0011	P	4.5

$$y = 1.7117\text{E-}004 * x + 8.9412\text{E-}005$$

$$R = 0.9998$$

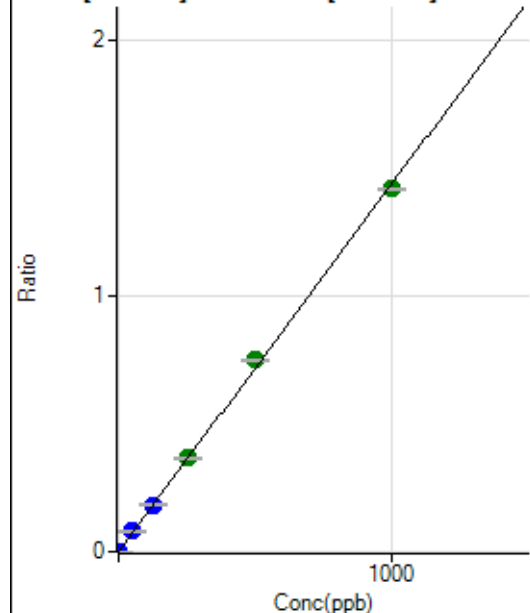
$$DL = 0.08039$$

$$BEC = 0.5224$$

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	66.67	0.0000	P	60.5
2	☐	1.000	0.975	8427.77	0.0014	P	2.5
3	☐	50.000	54.987	450250.74	0.0790	P	9.8
4	☐	125.000	126.095	1144587.60	0.1811	P	4.0
5	☐	250.000	254.420	2282868.73	0.3654	A	1.3
6	☐	500.000	521.743	4688712.56	0.7492	A	0.6
7	☐	1000.000	987.637	9188676.16	1.4182	A	0.8
8	☐			50439.04	0.0082	P	3.8

$$y = 0.0014 * x + 1.1090E-005$$

$$R = 0.9996$$

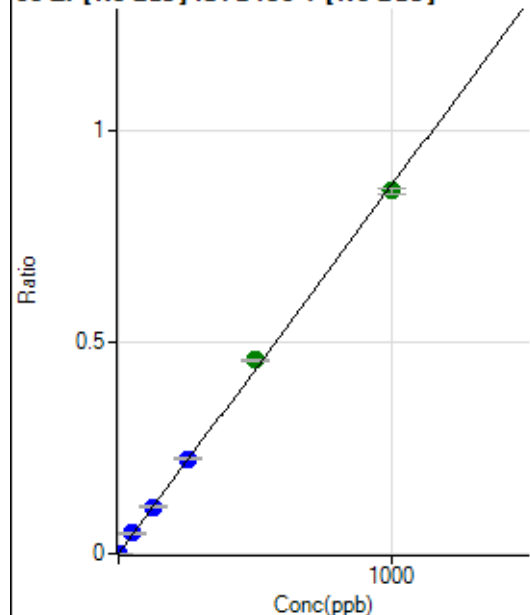
$$DL = 0.01402$$

$$BEC = 0.007723$$

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	316.68	0.0001	P	5.9
2	☐	1.000	0.941	5212.22	0.0009	P	5.4
3	☐	50.000	54.888	273356.47	0.0479	P	8.1
4	☐	125.000	125.917	694198.96	0.1098	P	3.4
5	☐	250.000	257.131	1400790.53	0.2242	P	1.3
6	☐	500.000	525.220	2865471.64	0.4579	A	0.4
7	☐	1000.000	985.248	5564346.13	0.8589	A	1.4
8	☐			1591.80	0.0003	P	11.7

$$y = 8.7168E-004 * x + 5.2690E-005$$

$$R = 0.9995$$

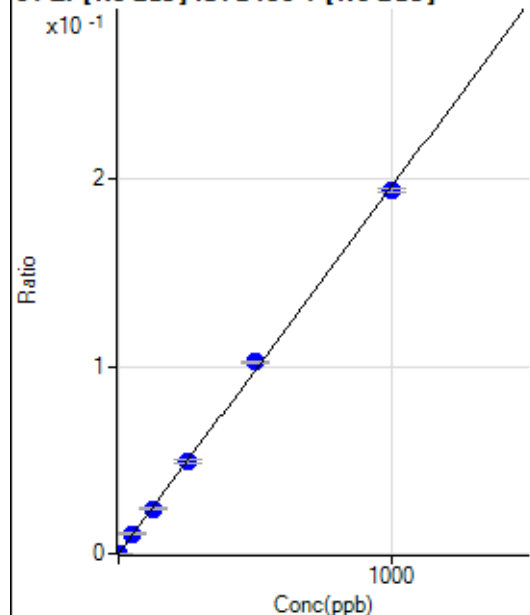
$$DL = 0.01063$$

$$BEC = 0.06045$$

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	61.11	0.0000	P	40.5
2	☐	1.000	0.976	1202.86	0.0002	P	13.1
3	☐	50.000	53.598	59909.98	0.0105	P	8.6
4	☐	125.000	123.014	152250.96	0.0241	P	4.0
5	☐	250.000	251.694	307875.31	0.0493	P	2.5
6	☐	500.000	521.865	639267.84	0.1021	P	0.9
7	☐	1000.000	988.712	1253808.58	0.1935	P	1.0
8	☐			341.68	0.0001	P	18.3

$$y = 1.9572\text{E-}004 * x + 1.0094\text{E-}005$$

$$R = 0.9996$$

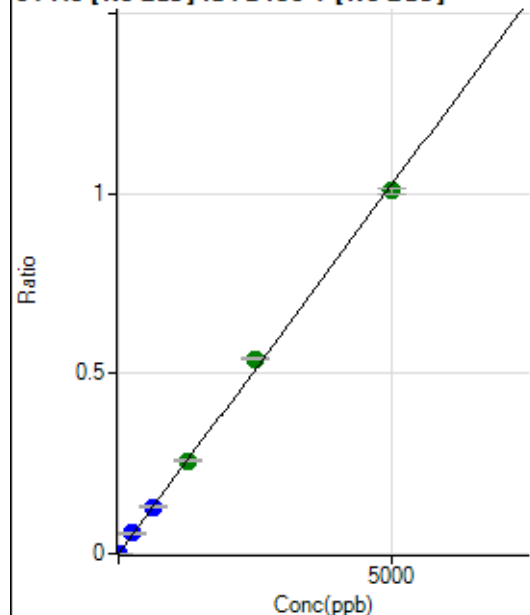
$$DL = 0.06262$$

$$BEC = 0.05157$$

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	100.00	0.0000	P	4.6
2	☐	5.000	4.758	5920.87	0.0010	P	2.4
3	☐	250.000	275.673	322334.78	0.0565	P	8.2
4	☐	625.000	629.741	815379.91	0.1290	P	4.2
5	☐	1250.000	1262.856	1616345.86	0.2587	A	2.5
6	☐	2500.000	2647.069	3393191.35	0.5422	A	0.8
7	☐	5000.000	4921.376	6530459.56	1.0080	A	1.5
8	☐			2089.10	0.0003	P	4.4

$$y = 2.0482\text{E-}004 * x + 1.6682\text{E-}005$$

$$R = 0.9993$$

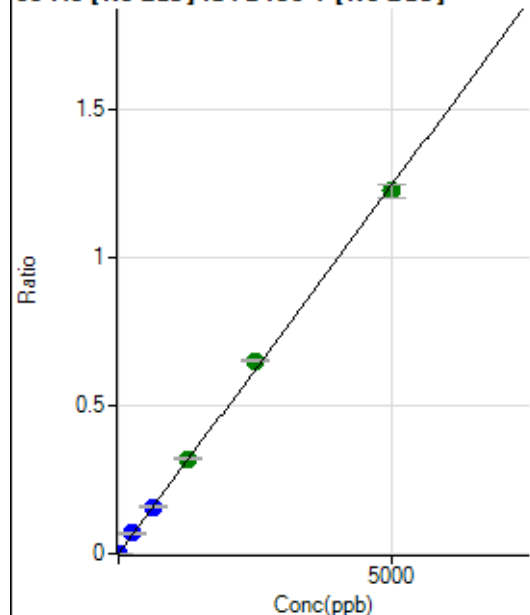
$$DL = 0.01123$$

$$BEC = 0.08145$$

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	25.00	0.0000	P	4.6
2	☐	5.000	4.784	7110.34	0.0012	P	4.3
3	☐	250.000	277.485	392958.27	0.0688	P	7.9
4	☐	625.000	631.788	990713.80	0.1567	P	4.5
5	☐	1250.000	1289.676	1999228.30	0.3200	A	0.8
6	☐	2500.000	2619.741	4067535.81	0.6499	A	0.5
7	☐	5000.000	4927.988	7919164.41	1.2226	A	3.5
8	☐			2508.64	0.0004	P	1.3

$$y = 2.4810E-004 * x + 4.1706E-006$$

$$R = 0.9995$$

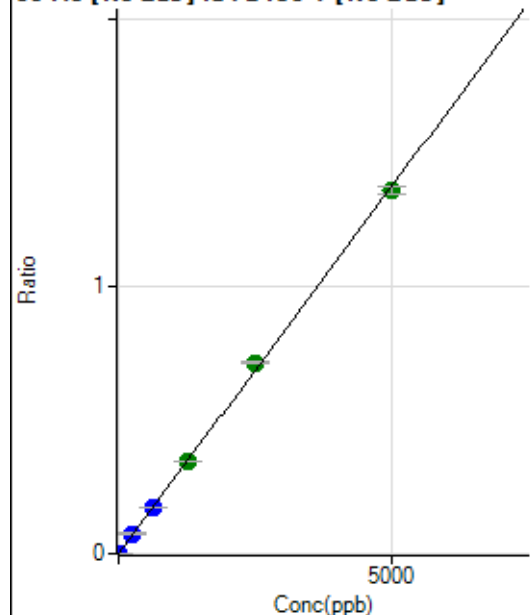
$$DL = 0.002319$$

$$BEC = 0.01681$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.33	0.0000	P	42.6
2	☐	5.000	4.959	8177.62	0.0014	P	9.3
3	☐	250.000	273.833	429192.40	0.0752	P	8.0
4	☐	625.000	628.737	1091345.00	0.1726	P	3.6
5	☐	1250.000	1264.246	2168899.27	0.3471	A	0.6
6	☐	2500.000	2603.623	4473995.89	0.7149	A	1.1
7	☐	5000.000	4942.968	8792411.83	1.3572	A	2.3
8	☐			3283.81	0.0005	P	6.6

$$y = 2.7457E-004 * x + 9.7508E-006$$

$$R = 0.9997$$

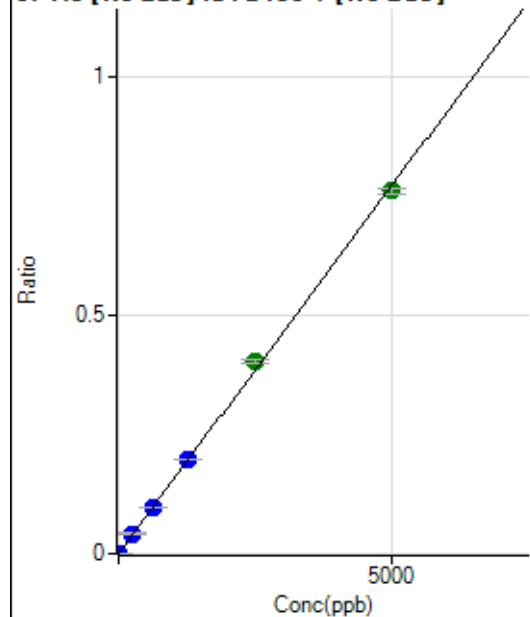
$$DL = 0.04536$$

$$BEC = 0.03551$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	5.000	4.858	4470.27	0.0007	P	8.1
3	☐	250.000	270.967	238253.07	0.0418	P	8.7
4	☐	625.000	624.987	608928.90	0.0963	P	3.1
5	☐	1250.000	1280.917	1233429.79	0.1974	P	1.3
6	☐	2500.000	2615.255	2522229.05	0.4030	A	1.2
7	☐	5000.000	4933.597	4925851.89	0.7603	A	1.3
8	☐			1411.22	0.0002	P	15.0

$$y = 1.5411\text{E-}004 * x + 9.0212\text{E-}007$$

$$R = 0.9996$$

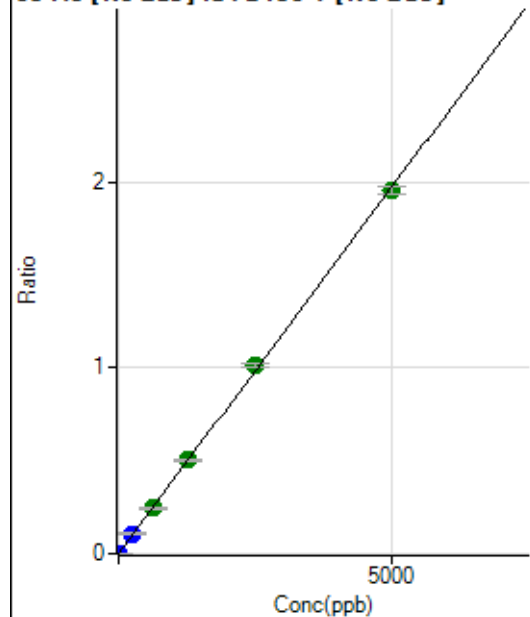
$$DL = 0.01521$$

$$BEC = 0.005854$$

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	16.67	0.0000	P	47.9
2	☐	5.000	4.674	11004.64	0.0018	P	4.4
3	☐	250.000	271.638	609901.99	0.1070	P	9.9
4	☐	625.000	627.029	1560815.72	0.2469	A	4.1
5	☐	1250.000	1279.447	3148194.43	0.5039	A	1.1
6	☐	2500.000	2575.671	6347639.34	1.0143	A	1.4
7	☐	5000.000	4953.468	12636949.24	1.9507	A	2.1
8	☐			3556.10	0.0006	P	2.6

$$y = 3.9381\text{E-}004 * x + 2.7471\text{E-}006$$

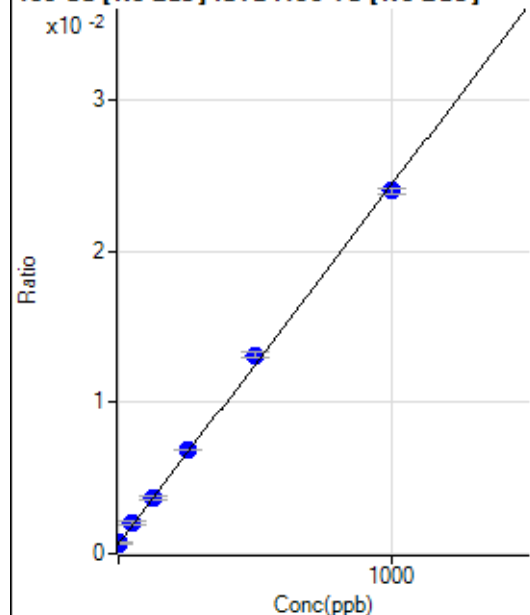
$$R = 0.9998$$

$$DL = 0.01002$$

$$BEC = 0.006976$$

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	1916.85	0.0007	P	7.1
2	☐	1.000	1.705	2011.31	0.0007	P	8.4
3	☐	50.000	56.517	5517.94	0.0020	P	12.0
4	☐	125.000	127.057	11218.73	0.0037	P	4.9
5	☐	250.000	260.861	20896.80	0.0069	P	1.0
6	☐	500.000	526.606	40641.25	0.0132	P	2.4
7	☐	1000.000	983.398	78308.36	0.0240	P	1.5
8	☐			2111.34	0.0007	P	8.0

$$y = 2.3740\text{E-}005 * x + 6.6063\text{E-}004$$

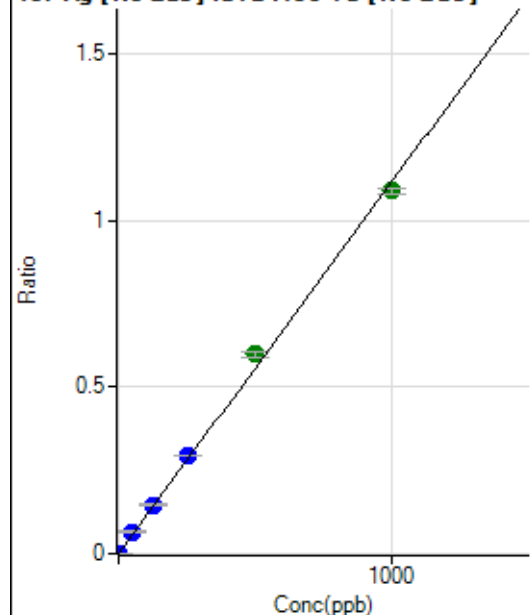
$$R = 0.9994$$

$$DL = 5.918$$

$$BEC = 27.83$$

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	41.67	0.0000	P	51.5
2	☐	1.000	0.952	3080.98	0.0011	P	1.5
3	☐	50.000	57.072	175586.56	0.0636	P	9.2
4	☐	125.000	131.368	446719.77	0.1464	P	4.6
5	☐	250.000	265.623	902444.52	0.2960	P	0.5
6	☐	500.000	535.992	1844539.99	0.5973	A	2.1
7	☐	1000.000	976.949	3550863.53	1.0887	A	1.9
8	☐			1702.94	0.0005	P	12.0

$$y = 0.0011 * x + 1.4361\text{E-}005$$

$$R = 0.9989$$

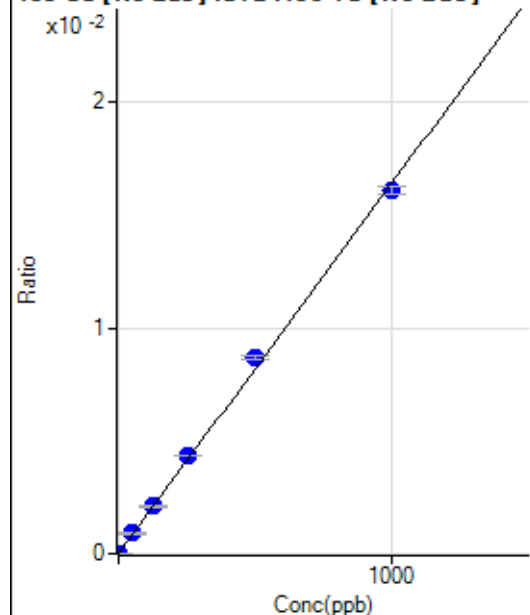
$$DL = 0.0199$$

$$BEC = 0.01289$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	47.0
2	☐	1.000	1.185	63.89	0.0000	P	4.4
3	☐	50.000	54.692	2482.20	0.0009	P	10.7
4	☐	125.000	128.821	6454.37	0.0021	P	4.7
5	☐	250.000	264.213	13218.96	0.0043	P	0.4
6	☐	500.000	530.833	26894.36	0.0087	P	1.5
7	☐	1000.000	980.318	52446.62	0.0161	P	2.1
8	☐			73.61	0.0000	P	2.7

$$y = 1.6399\text{E-}005 * x + 2.8408\text{E-}006$$

$$R = 0.9992$$

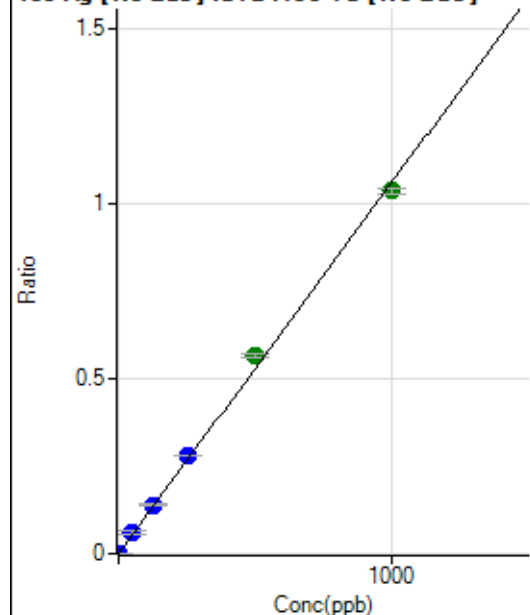
$$DL = 0.2442$$

$$BEC = 0.1732$$

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	25.00	0.0000	P	59.1
2	☐	1.000	0.986	3022.64	0.0011	P	2.4
3	☐	50.000	56.896	166562.69	0.0604	P	10.2
4	☐	125.000	130.361	422218.48	0.1383	P	3.0
5	☐	250.000	263.704	853102.16	0.2798	P	0.9
6	☐	500.000	534.338	1750841.69	0.5670	A	1.4
7	☐	1000.000	978.390	3386918.41	1.0382	A	1.3
8	☐			1516.80	0.0005	P	14.9

$$y = 0.0011 * x + 8.7306\text{E-}006$$

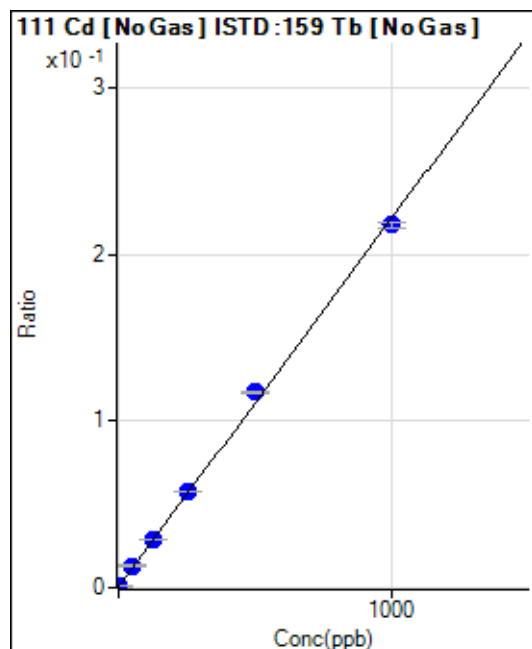
$$R = 0.9990$$

$$DL = 0.01459$$

$$BEC = 0.008228$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1340.13	0.0005	P	6.8
2	☐	1.000	1.114	2029.89	0.0007	P	5.5
3	☐	50.000	56.649	35856.73	0.0130	P	9.0
4	☐	125.000	128.835	88364.72	0.0290	P	2.9
5	☐	250.000	258.843	175903.81	0.0577	P	1.2
6	☐	500.000	528.193	362092.62	0.1173	P	1.3
7	☐	1000.000	982.881	710405.32	0.2178	P	1.8
8	☐			1705.58	0.0005	P	7.6

$$y = 2.2112\text{E-}004 * x + 4.6193\text{E-}004$$

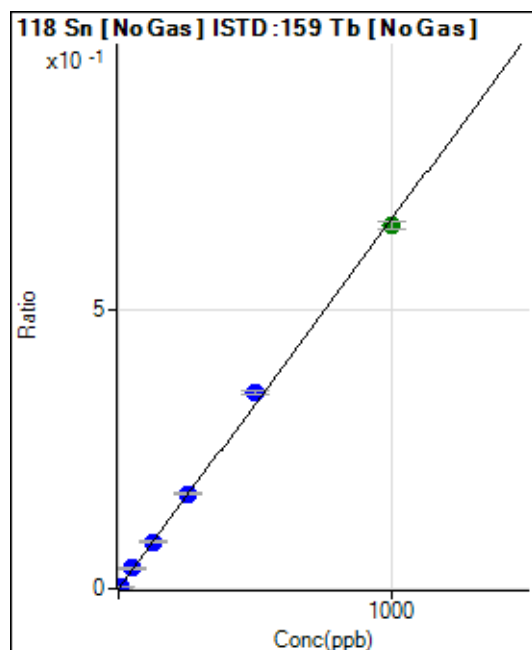
$$R = 0.9994$$

$$DL = 0.4292$$

$$BEC = 2.089$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	255.57	0.0001	P	43.1
2	☐	5.000	4.923	9598.07	0.0034	P	7.3
3	☐	50.000	54.945	100842.69	0.0365	P	9.6
4	☐	125.000	127.324	258018.04	0.0846	P	4.8
5	☐	250.000	257.085	520292.64	0.1707	P	0.5
6	☐	500.000	530.068	1086241.16	0.3518	P	1.6
7	☐	1000.000	982.658	2126556.49	0.6520	A	2.3
8	☐			452.80	0.0001	P	24.5

$$y = 6.6345\text{E-}004 * x + 8.9143\text{E-}005$$

$$R = 0.9993$$

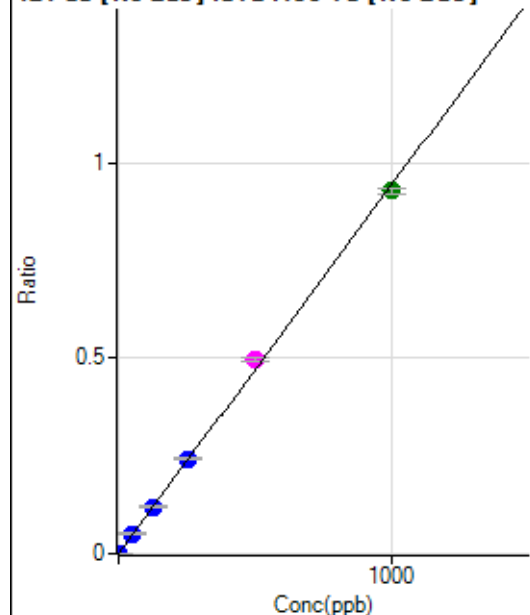
$$DL = 0.1739$$

$$BEC = 0.1344$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	93.7
2	☐	2.000	1.867	5053.85	0.0018	P	9.4
3	☐	50.000	54.524	142094.48	0.0515	P	9.4
4	☐	125.000	127.687	367903.28	0.1206	P	4.2
5	☐	250.000	257.721	741876.96	0.2433	P	0.5
6	☐	500.000	526.506	1535125.51	0.4971	M	1.6
7	☐	1000.000	984.255	3031533.16	0.9293	A	1.3
8	☐			1914.08	0.0006	P	1.7

$$y = 9.4419\text{E-}004 * x + 4.8836\text{E-}006$$

$$R = 0.9994$$

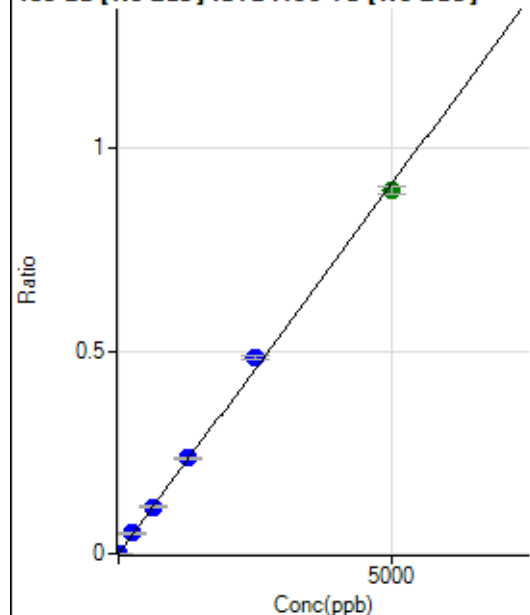
$$DL = 0.01454$$

$$BEC = 0.005172$$

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	16.67	0.0000	P	53.7
2	☐	10.000	9.375	4906.57	0.0017	P	6.5
3	☐	250.000	274.366	137972.66	0.0500	P	9.9
4	☐	625.000	633.155	352073.14	0.1154	P	4.6
5	☐	1250.000	1290.693	717092.89	0.2352	P	0.6
6	☐	2500.000	2655.494	1494362.55	0.4839	P	1.5
7	☐	5000.000	4909.843	2918370.73	0.8948	A	2.0
8	☐			5134.46	0.0016	P	7.3

$$y = 1.8224\text{E-}004 * x + 5.8257\text{E-}006$$

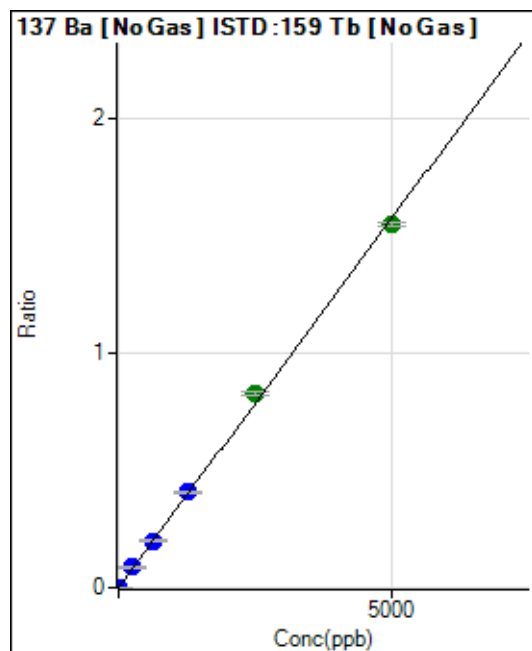
$$R = 0.9992$$

$$DL = 0.05153$$

$$BEC = 0.03197$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	73.9
2	☐	10.000	10.198	9211.69	0.0032	P	3.9
3	☐	250.000	275.418	239534.20	0.0868	P	8.8
4	☐	625.000	631.156	606618.84	0.1988	P	4.5
5	☐	1250.000	1298.376	1246903.88	0.4090	P	1.6
6	☐	2500.000	2639.930	2567745.11	0.8315	A	1.7
7	☐	5000.000	4915.900	5051396.21	1.5485	A	0.9
8	☐			8744.73	0.0028	P	2.9

$$y = 3.1499E-004 * x + 4.8954E-006$$

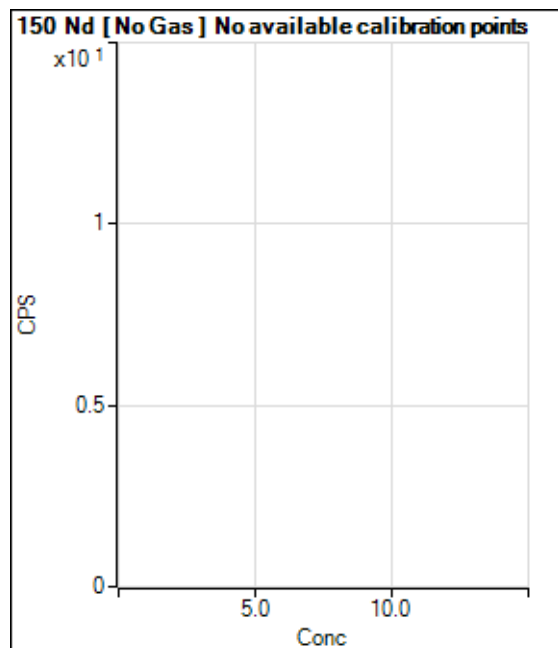
$$R = 0.9994$$

$$DL = 0.03445$$

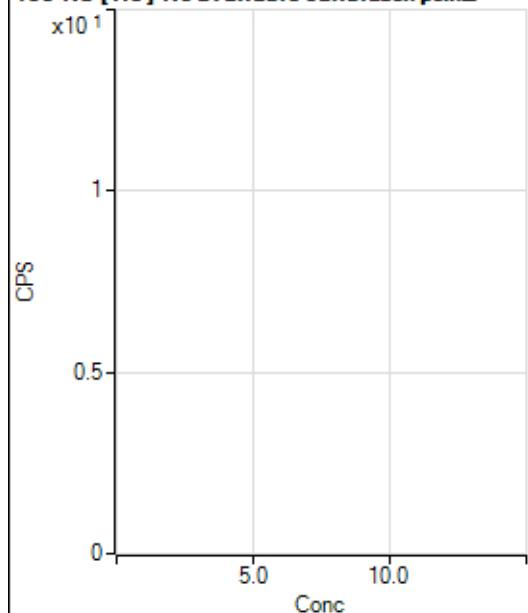
$$BEC = 0.01554$$

Weight: <None>

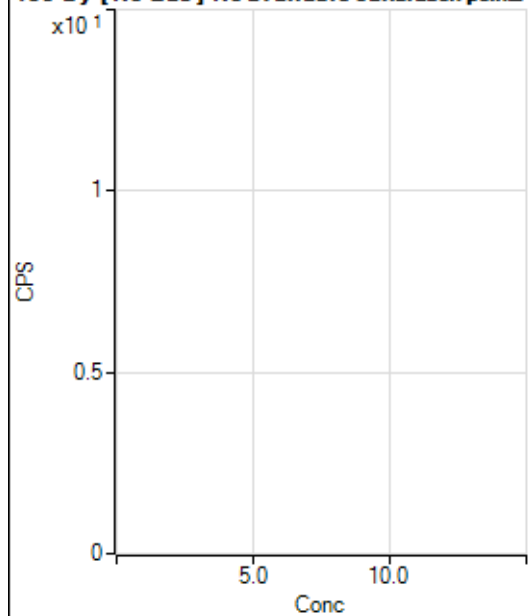
Min Conc: 0



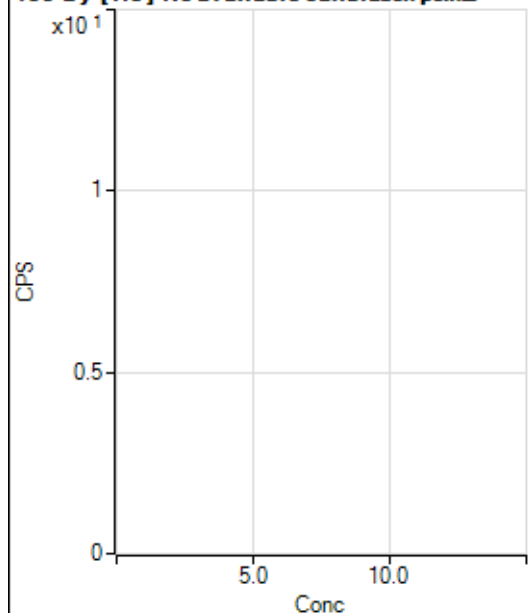
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			6.67		P	100.0
3	☐			15.56		P	65.5
4	☐			35.56		P	54.1
5	☐			33.33		P	20.0
6	☐			73.34		P	27.3
7	☐			102.22		P	19.9
8	☐			15.55		P	107.9

150 Nd [He] No available calibration points

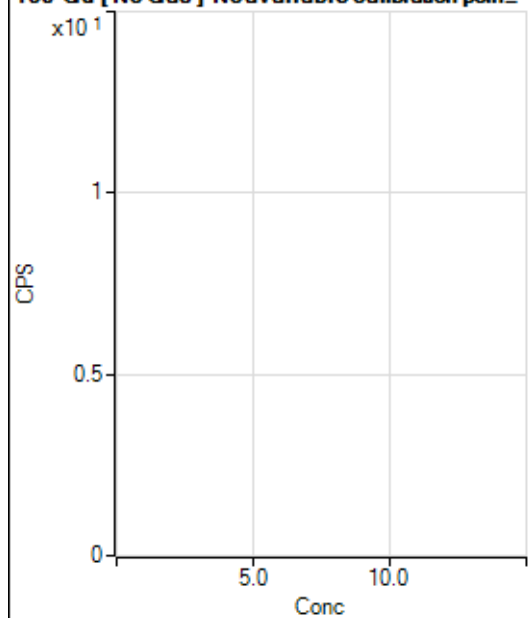
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			0.00		P	
5	☐			2.22		P	173.2
6	☐			5.55		P	69.3
7	☐			11.11		P	45.8
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

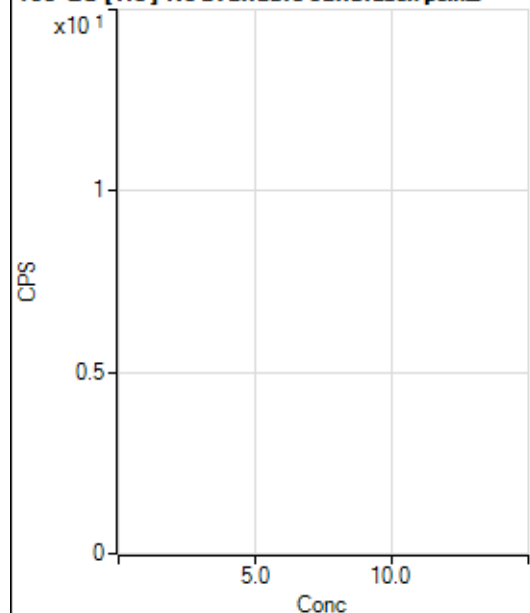
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			8.33		P	100.0
3	☐			8.33		P	100.0
4	☐			25.00		P	66.7
5	☐			27.78		P	69.3
6	☐			44.44		P	21.7
7	☐			97.23		P	9.9
8	☐			141.67		P	15.6

156 Dy [He] No available calibration points

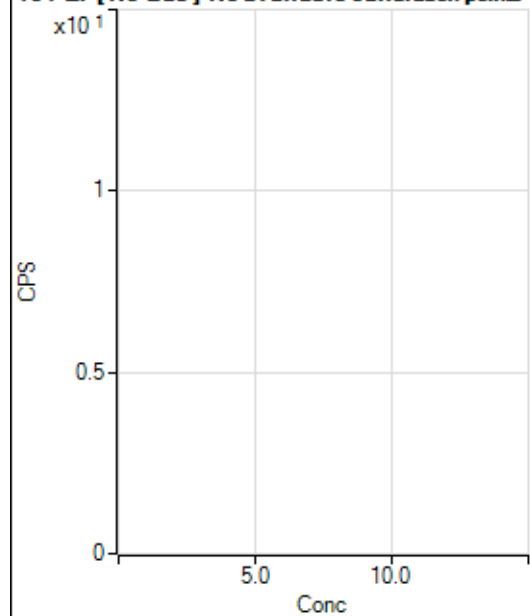
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			3.33		P	173.2
4	☐			2.22		P	86.6
5	☐			13.33		P	109.0
6	☐			13.33		P	25.0
7	☐			31.11		P	34.4
8	☐			90.00		P	7.4

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

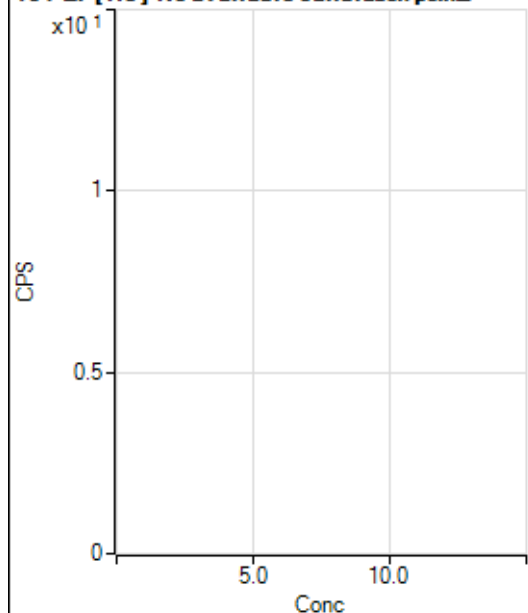
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	55.5
2	☐			58.34		P	14.3
3	☐			50.00		P	28.9
4	☐			47.22		P	20.4
5	☐			63.89		P	19.9
6	☐			77.78		P	32.7
7	☐			72.23		P	46.6
8	☐			177.78		P	13.5

160 Gd [He] No available calibration points

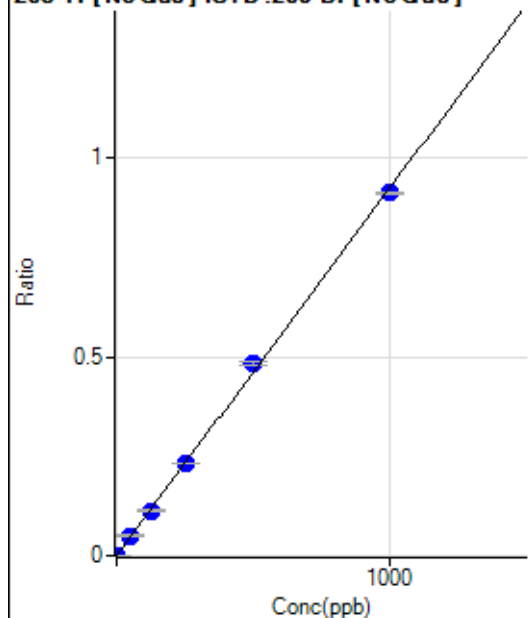
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	66.1
2	☐			20.00		P	16.7
3	☐			13.34		P	43.3
4	☐			17.78		P	10.8
5	☐			24.44		P	39.4
6	☐			35.56		P	14.3
7	☐			43.33		P	13.3
8	☐			104.45		P	10.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	20.0
2	☐			30.56		P	83.3
3	☐			13.89		P	124.9
4	☐			33.33		P	50.0
5	☐			33.34		P	43.3
6	☐			27.78		P	62.5
7	☐			30.56		P	56.8
8	☐			38.89		P	24.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			10.00		P	33.3
2	☐			5.55		P	124.9
3	☐			11.11		P	75.5
4	☐			5.56		P	34.7
5	☐			12.22		P	31.5
6	☐			10.00		P	33.3
7	☐			17.78		P	39.0
8	☐			13.33		P	25.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.906	1066.74	0.0008	P	13.7
3	☐	50.000	53.473	59997.84	0.0494	P	8.8
4	☐	125.000	121.600	152718.82	0.1123	P	2.6
5	☐	250.000	250.296	312790.97	0.2312	P	0.3
6	☐	500.000	524.223	662140.35	0.4842	P	2.2
7	☐	1000.000	988.066	1308465.60	0.9126	P	0.5
8	☐			675.04	0.0005	P	15.7

$$y = 9.2363E-004 * x + 8.4585E-006$$

$$R = 0.9995$$

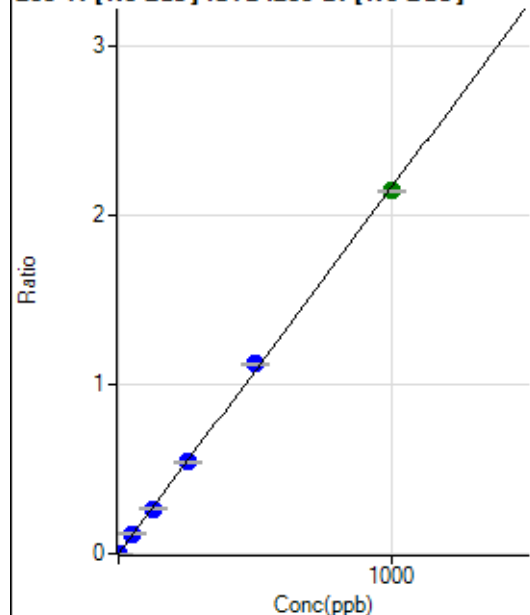
$$DL = 0.02379$$

$$BEC = 0.009158$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	48.9
2	☐	1.000	0.934	2589.22	0.0020	P	2.1
3	☐	50.000	53.001	139528.85	0.1149	P	9.2
4	☐	125.000	122.223	360200.38	0.2650	P	3.3
5	☐	250.000	249.493	731722.94	0.5408	P	0.7
6	☐	500.000	519.012	1538645.53	1.1250	P	1.3
7	☐	1000.000	990.818	3079497.75	2.1477	A	0.7
8	☐			1250.09	0.0009	P	10.9

$$y = 0.0022 * x + 2.5930E-005$$

$$R = 0.9997$$

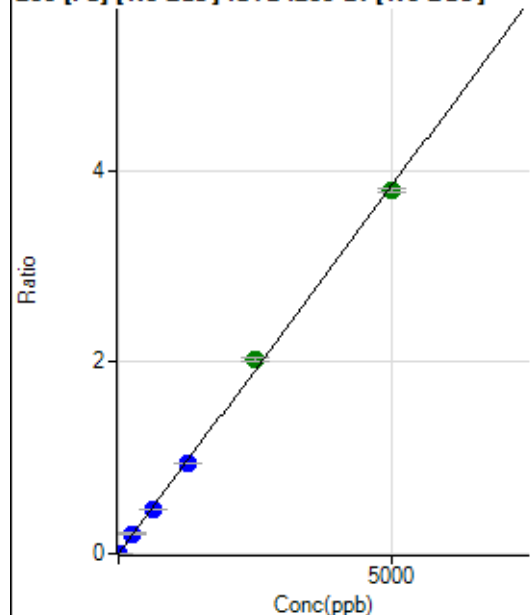
$$DL = 0.01756$$

$$BEC = 0.01196$$

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	137.04	0.0001	P	25.2
2	☐	1.000	0.903	1011.17	0.0008	P	4.1
3	☐	250.000	264.116	246537.13	0.2030	P	9.1
4	☐	625.000	599.801	626704.18	0.4610	P	3.0
5	☐	1250.000	1228.429	1277182.05	0.9440	P	0.7
6	☐	2500.000	2647.195	2781908.31	2.0341	A	1.5
7	☐	5000.000	4934.239	5435515.81	3.7913	A	1.2
8	☐			1827.94	0.0014	P	7.9

$$y = 7.6834E-004 * x + 1.0695E-004$$

$$R = 0.9993$$

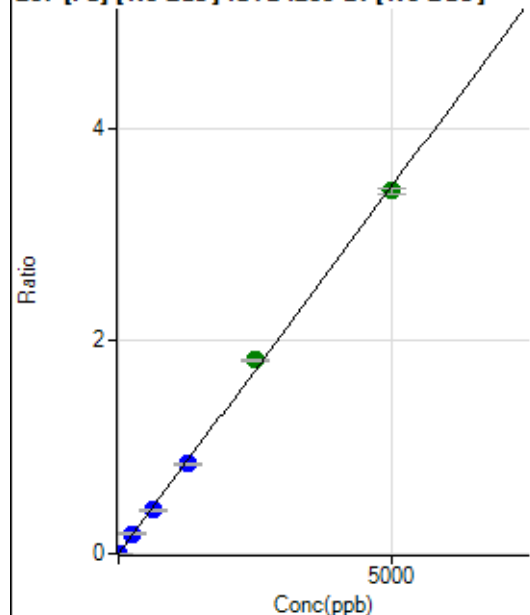
$$DL = 0.1051$$

$$BEC = 0.1392$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	90.75	0.0001	P	42.3
2	☐	1.000	0.899	870.42	0.0007	P	13.5
3	☐	250.000	263.104	220517.05	0.1817	P	9.7
4	☐	625.000	594.344	557617.46	0.4103	P	4.7
5	☐	1250.000	1226.344	1145287.13	0.8465	P	1.4
6	☐	2500.000	2635.675	2487863.42	1.8191	A	1.6
7	☐	5000.000	4941.253	4889229.10	3.4104	A	1.7
8	☐			1490.86	0.0011	P	1.3

$$y = 6.9017E-004 * x + 7.0524E-005$$

$$R = 0.9994$$

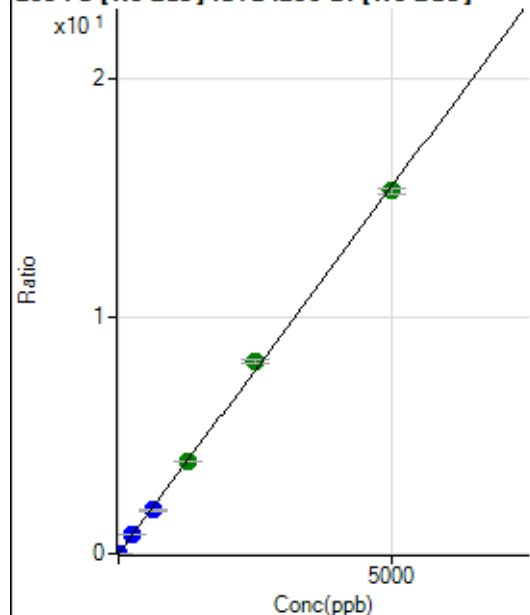
$$DL = 0.1295$$

$$BEC = 0.1022$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	472.24	0.0004	P	6.4
2	☐	1.000	0.890	3941.04	0.0031	P	6.2
3	☐	250.000	262.689	988441.61	0.8140	P	9.0
4	☐	625.000	594.598	2504002.13	1.8420	P	3.7
5	☐	1250.000	1246.703	5224929.46	3.8618	A	0.4
6	☐	2500.000	2623.822	11115014.00	8.1271	A	1.5
7	☐	5000.000	4942.079	21945188.57	15.3075	A	1.8
8	☐			7006.43	0.0053	P	1.1

$$y = 0.0031 * x + 3.6772E-004$$

$$R = 0.9995$$

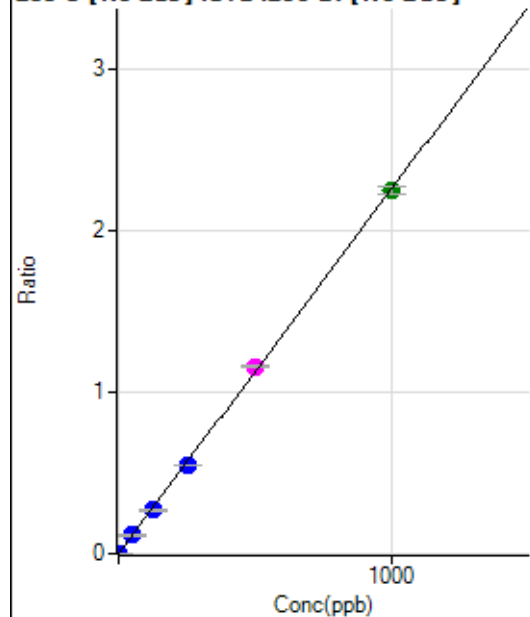
$$DL = 0.02271$$

$$BEC = 0.1187$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.7
2	☐	1.000	0.960	2742.04	0.0022	P	1.8
3	☐	50.000	51.335	140614.89	0.1158	P	9.4
4	☐	125.000	118.785	364319.20	0.2680	P	3.9
5	☐	250.000	244.258	745619.60	0.5511	P	0.2
6	☐	500.000	514.059	1586146.63	1.1598	M	1.9
7	☐	1000.000	995.116	3218849.36	2.2452	A	2.1
8	☐			294.46	0.0002	P	35.8

$$y = 0.0023 * x + 4.3666E-006$$

$$R = 0.9998$$

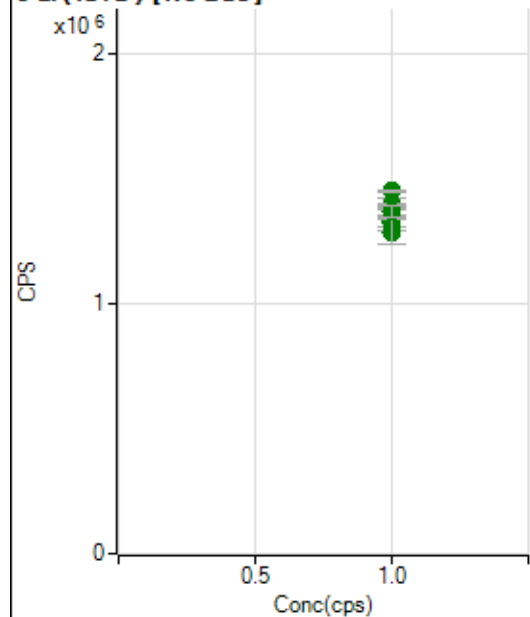
$$DL = 0.005037$$

$$BEC = 0.001935$$

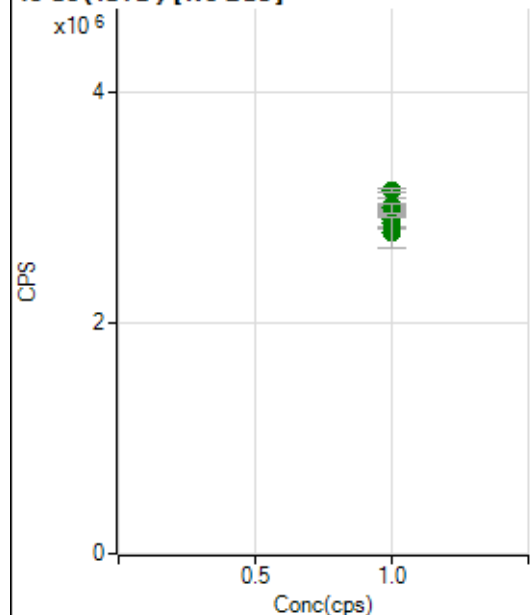
Weight: <None>

Min Conc: 0

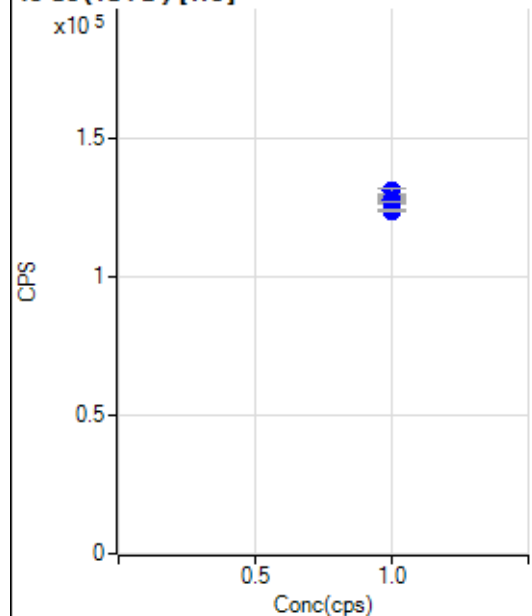
6 Li (ISTD) [No Gas]



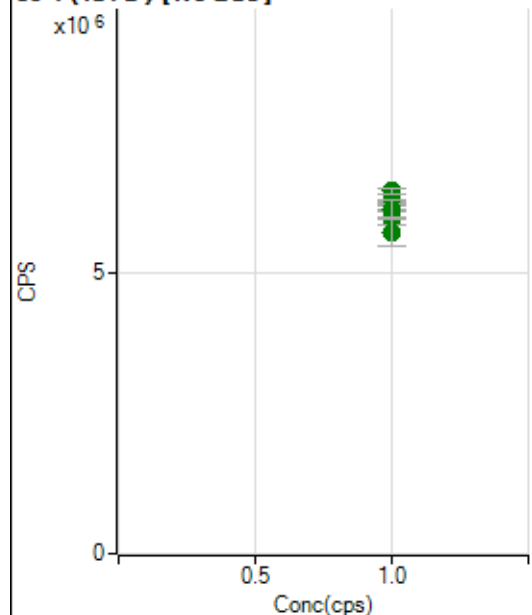
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1329384.54		A	3.3
2	☐	1.000		1322618.93		A	4.2
3	☐	1.000		1286418.86		A	8.2
4	☐	1.000		1401151.43		A	3.3
5	☐	1.000		1380690.32		A	0.7
6	☐	1.000		1395316.28		A	1.0
7	☐	1.000		1450333.92		A	0.8
8	☐	1.000		1368296.79		A	3.6

45 Sc (ISTD) [No Gas]

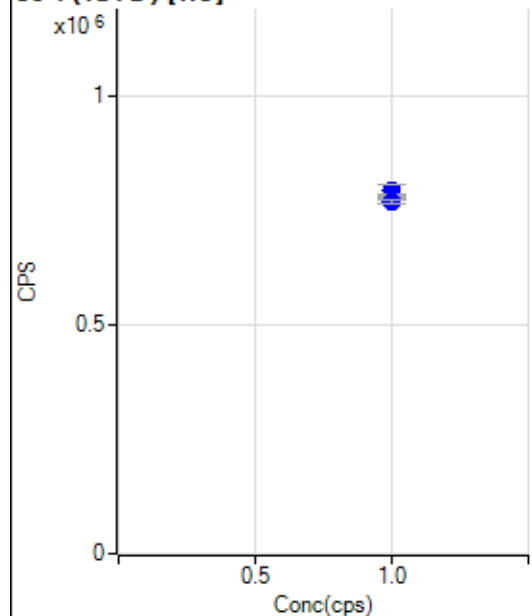
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2903954.73		A	5.1
2	☐	1.000		2865047.59		A	3.8
3	☐	1.000		2782504.99		A	10.1
4	☐	1.000		3022546.97		A	3.4
5	☐	1.000		3010092.94		A	1.4
6	☐	1.000		3002120.68		A	1.3
7	☐	1.000		3142074.54		A	1.1
8	☐	1.000		2991360.76		A	2.4

45 Sc (ISTD) [He]

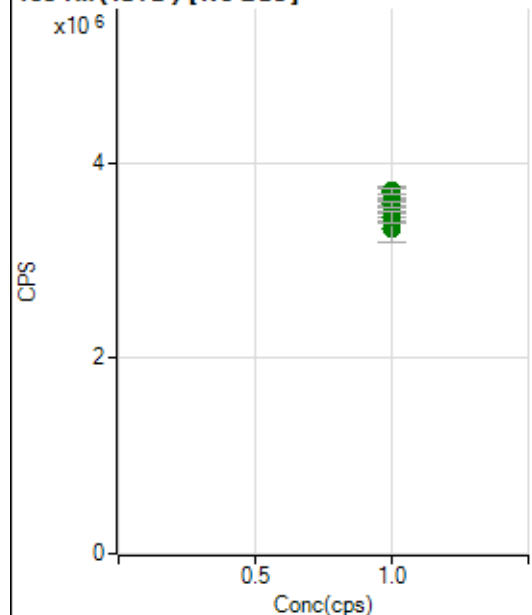
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		128987.51		P	2.1
2	☐	1.000		129488.58		P	0.3
3	☐	1.000		127129.36		P	1.3
4	☐	1.000		131210.75		P	1.7
5	☐	1.000		127694.72		P	1.6
6	☐	1.000		128150.06		P	0.9
7	☐	1.000		127234.91		P	0.4
8	☐	1.000		123971.88		P	0.5

89 Y (ISTD) [No Gas]

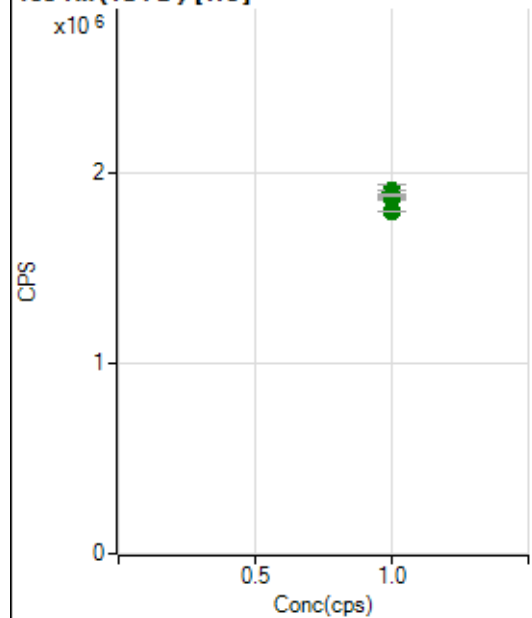
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6002640.95		A	4.5
2	☐	1.000		5976665.74		A	4.0
3	☐	1.000		5734078.80		A	8.7
4	☐	1.000		6325578.24		A	2.8
5	☐	1.000		6248072.41		A	0.6
6	☐	1.000		6258180.19		A	0.3
7	☐	1.000		6479510.94		A	1.5
8	☐	1.000		6155908.94		A	4.9

89 Y (ISTD) [He]

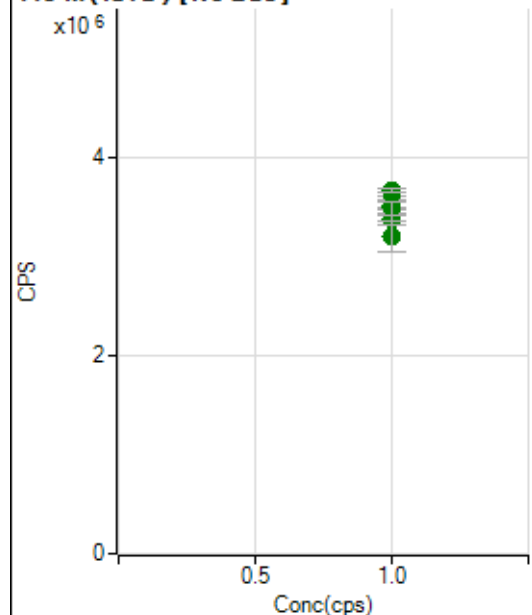
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		781700.26		P	0.5
2	☐	1.000		779097.38		P	1.4
3	☐	1.000		784661.53		P	0.8
4	☐	1.000		793805.20		P	3.1
5	☐	1.000		780949.66		P	1.0
6	☐	1.000		785744.20		P	0.8
7	☐	1.000		784503.23		P	0.6
8	☐	1.000		771303.57		P	1.0

103 Rh (ISTD) [No Gas]

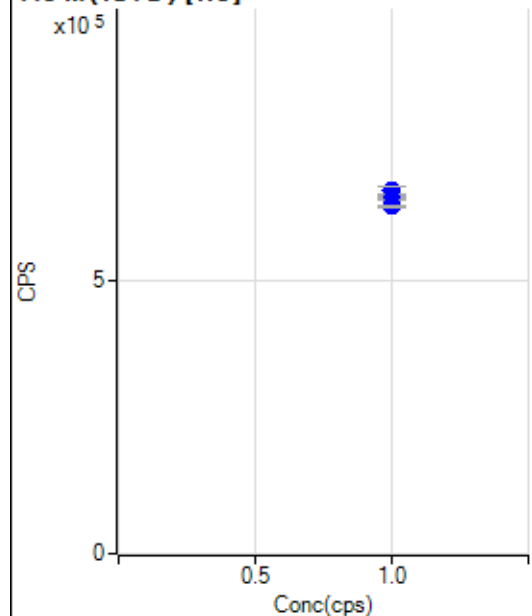
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3505266.31		A	3.3
2	☐	1.000		3442853.48		A	2.1
3	☐	1.000		3333326.57		A	8.6
4	☐	1.000		3699980.33		A	3.0
5	☐	1.000		3611454.03		A	0.7
6	☐	1.000		3575586.67		A	1.3
7	☐	1.000		3713668.36		A	1.3
8	☐	1.000		3442730.00		A	3.4

103 Rh (ISTD) [He]

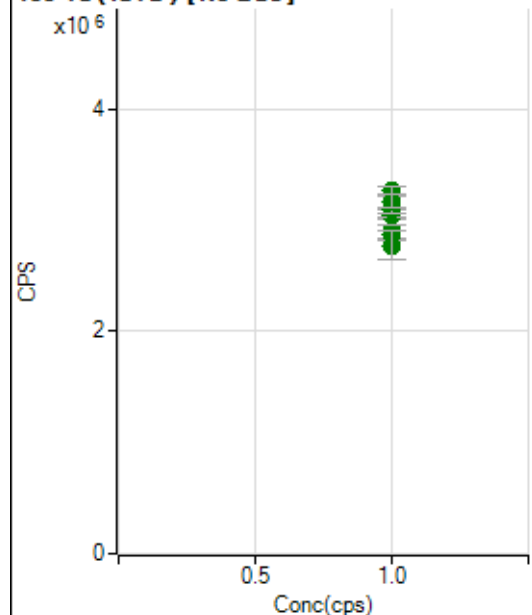
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1882034.71		A	0.1
2	☐	1.000		1864471.85		A	0.9
3	☐	1.000		1891342.02		A	1.2
4	☐	1.000		1903749.92		A	3.6
5	☐	1.000		1878108.74		A	0.6
6	☐	1.000		1896010.10		A	1.2
7	☐	1.000		1881633.65		A	0.4
8	☐	1.000		1796277.18		A	0.3

115 In (ISTD) [No Gas]

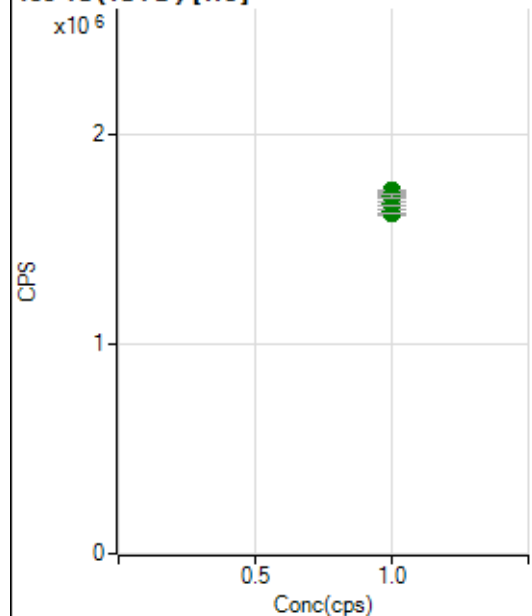
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3422913.57		A	3.0
2	☐	1.000		3383575.94		A	3.6
3	☐	1.000		3215480.75		A	9.5
4	☐	1.000		3569922.40		A	3.3
5	☐	1.000		3582376.88		A	0.3
6	☐	1.000		3527122.95		A	1.7
7	☐	1.000		3670924.02		A	1.0
8	☐	1.000		3497583.88		A	4.0

115 In (ISTD) [He]

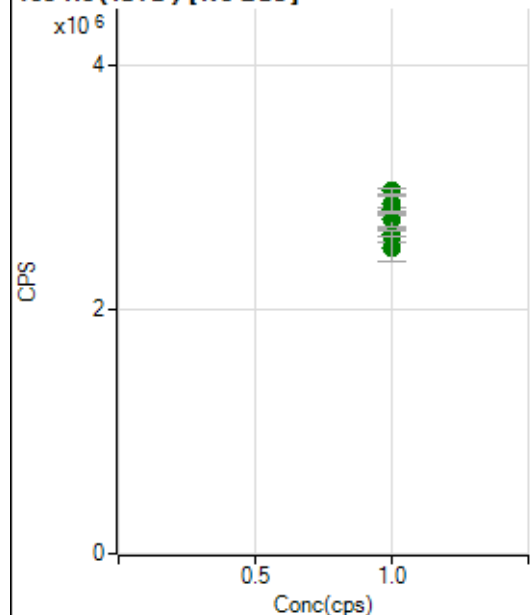
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		650545.78		P	1.0
2	☐	1.000		650764.79		P	1.1
3	☐	1.000		650317.32		P	0.9
4	☐	1.000		664463.50		P	2.6
5	☐	1.000		650359.11		P	0.6
6	☐	1.000		656729.97		P	0.3
7	☐	1.000		648957.76		P	0.2
8	☐	1.000		636516.31		P	0.7

159 Tb (ISTD) [No Gas]

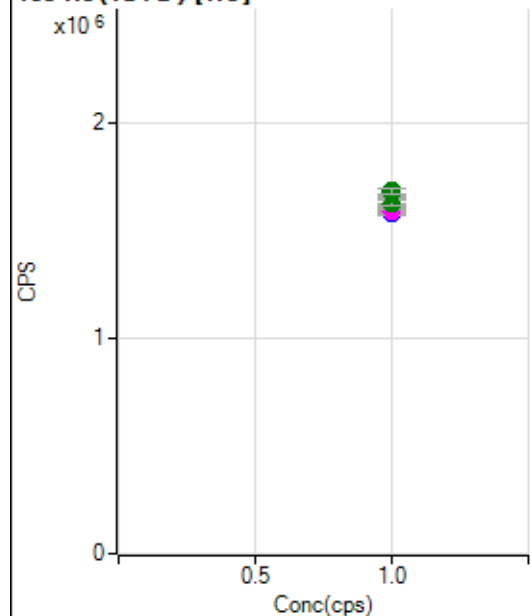
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2897090.62		A	4.3
2	☐	1.000		2865234.82		A	3.2
3	☐	1.000		2775391.73		A	8.9
4	☐	1.000		3054069.30		A	3.1
5	☐	1.000		3048808.50		A	1.3
6	☐	1.000		3088392.04		A	1.5
7	☐	1.000		3262668.81		A	2.5
8	☐	1.000		3172433.32		A	4.1

159 Tb (ISTD) [He]

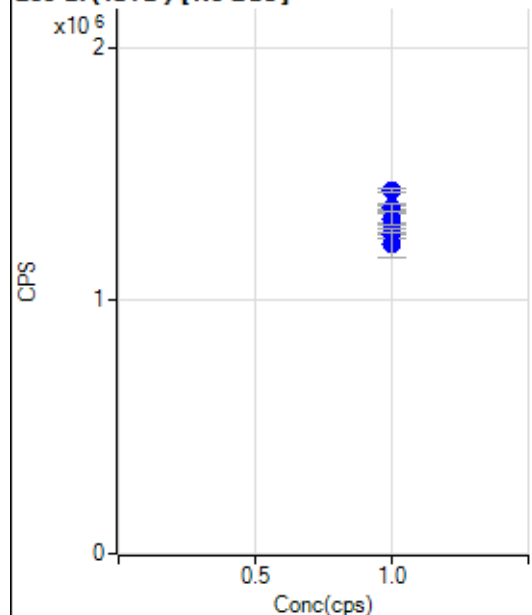
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1617187.27		A	0.2
2	☐	1.000		1617024.98		A	0.6
3	☐	1.000		1627646.31		A	1.3
4	☐	1.000		1672027.11		A	4.0
5	☐	1.000		1665670.81		A	0.7
6	☐	1.000		1711868.26		A	0.3
7	☐	1.000		1727854.40		A	0.6
8	☐	1.000		1700363.10		A	1.0

165 Ho (ISTD) [No Gas]

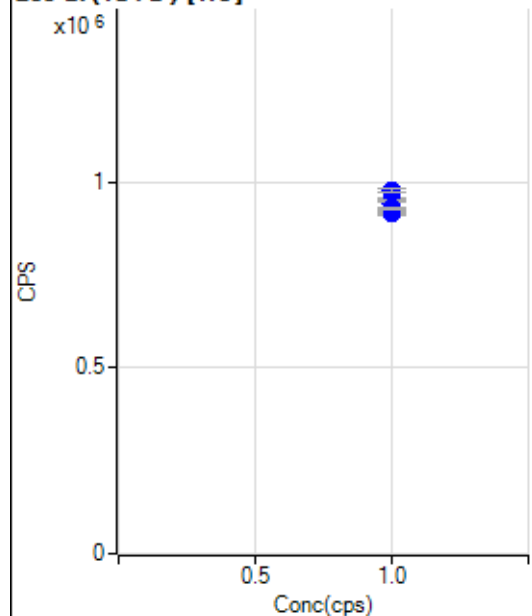
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2613757.74		A	4.2
2	☐	1.000		2600705.35		A	3.2
3	☐	1.000		2502968.31		A	8.2
4	☐	1.000		2738511.22		A	3.8
5	☐	1.000		2792142.66		A	1.1
6	☐	1.000		2814254.38		A	1.4
7	☐	1.000		2973290.73		A	1.3
8	☐	1.000		2866850.35		A	4.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1580275.15		P	0.3
2	☐	1.000		1583498.76		M	1.9
3	☐	1.000		1599388.85		M	0.6
4	☐	1.000		1638825.24		M	1.8
5	☐	1.000		1626631.43		A	1.7
6	☐	1.000		1681906.83		A	1.4
7	☐	1.000		1671414.67		A	2.2
8	☐	1.000		1679168.43		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1286148.32		P	3.7
2	☐	1.000		1263456.94		P	3.3
3	☐	1.000		1220336.78		P	8.3
4	☐	1.000		1360273.48		P	2.7
5	☐	1.000		1352957.83		P	0.8
6	☐	1.000		1367865.04		P	1.8
7	☐	1.000		1433805.03		P	1.1
8	☐	1.000		1325062.88		P	4.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		915485.58		P	0.8
2	☐	1.000		916150.86		P	0.5
3	☐	1.000		923936.46		P	0.5
4	☐	1.000		941750.48		P	2.7
5	☐	1.000		948818.65		P	0.2
6	☐	1.000		973016.03		P	0.2
7	☐	1.000		975791.79		P	1.0
8	☐	1.000		929698.86		P	0.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8072720MS.b
Acq. Date-Time 2020-07-27 08:47:21
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		3021	30206.65			1.665	5.000
24		36608	366078.84			1.947	5.000
25		4747	47469.77			1.774	5.000
26		5531	55312.22			1.105	5.000
59		19967	199669.73			1.513	5.000
113		2401	24008.89			1.660	5.000
115		7587	75874.95			1.841	5.000
206		1583	15827.20			2.151	5.000
207		1320	13198.83			2.402	5.000
208		3209	32090.20			2.098	5.000
220		1	11.80			19.091	

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

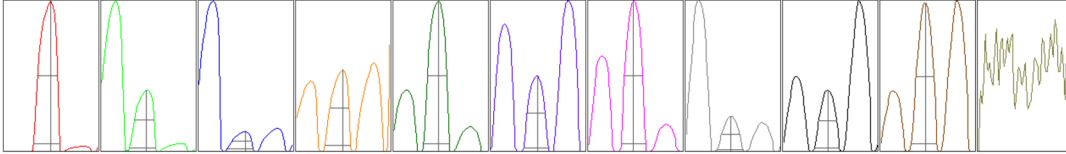
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3066	3081	2969	2984	3003
24	35832	36368	36232	36939	37668
25	4660	4726	4704	4762	4882
26	5494	5502	5467	5587	5606
59	19935	20406	19689	19696	20109
113	2399	2465	2358	2382	2401
115	7662	7795	7477	7466	7538
206	1589	1624	1532	1573	1596
207	1325	1361	1272	1319	1324
208	3173	3316	3138	3200	3219

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	5075.78	9.00	8.90 - 9.10	
24	61544.11	23.95	23.90 - 24.10	
25	7932.56	25.00	24.90 - 25.10	
26	9227.41	26.00	25.90 - 26.10	
59	34027.73	58.95	58.90 - 59.10	
113	4417.94	113.00	112.90 - 113.10	
115	14012.86	114.95	114.90 - 115.10	
206	2940.84	205.95	205.90 - 206.10	
207	2384.61	206.95	206.90 - 207.10	
208	5889.73	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.826	0.900	
24	0.64	0.825	0.900	
25	0.61	0.804	0.900	
26	0.62	0.807	0.900	
59	0.62	0.818	0.900	
113	0.56	0.778	0.900	
115	0.56	0.776	0.900	
206	0.56	0.807	0.900	
207	0.57	0.788	0.900	
208	0.57	0.811	0.900	
220				

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	6.8 V	Deflect	14.0 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	170 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		5071	50707.23			0.716	
89		9018	90178.70			0.542	
205		5045	50447.62			0.599	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5117	5057	5102	5040	5038
89	9033	9000	9044	8943	9070
205	5082	5056	5055	5004	5027

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	6.8 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-200.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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