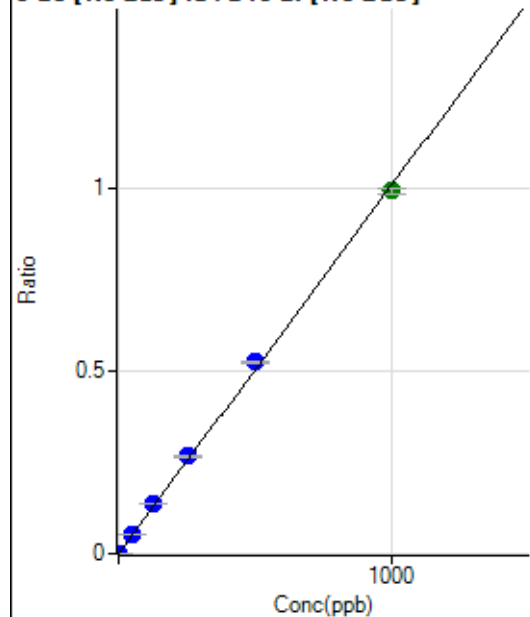


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7051624-PM3.b\
 Analysis File: P7051624-PM3.batch.bin
 DA Date-Time: 2024-05-16 16:19:46
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2024-05-16 14:24:36
2	006CALS.d	S02	2024-05-16 14:27:53
3	007CALS.d	S03	2024-05-16 14:31:10
4	008CALS.d	S04	2024-05-16 14:34:15
5	009CALS.d	S05	2024-05-16 14:37:12
6	010CALS.d	S06	2024-05-16 14:40:01
7	011CALS.d	S07	2024-05-16 14:42:48
8	012CALS.d	S08	2024-05-16 14:45:33

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	231.12	0.0002	P	14.2
2	☐	1.000	1.049	1377.85	0.0013	P	7.5
3	☐	50.000	53.735	63899.38	0.0543	P	3.0
4	☐	125.000	134.328	155465.61	0.1354	P	0.5
5	☐	250.000	264.576	302413.07	0.2664	P	1.3
6	☐	500.000	519.867	581854.11	0.5233	P	1.6
7	☐	1000.000	985.070	1075606.30	0.9913	A	1.6
8	☐			1242.28	0.0012	P	14.7

$$y = 0.0010 * x + 2.0145E-004$$

$$R = 0.9996$$

$$DL = 0.08522$$

$$BEC = 0.2002$$

Weight: <None>

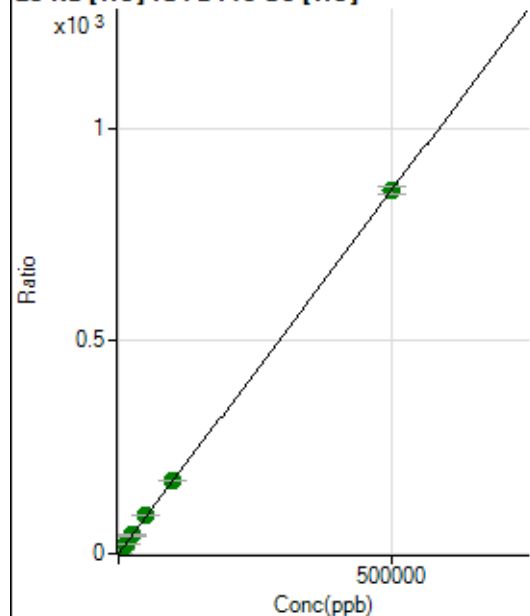
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29635.25	0.1065	P	1.8
2	☐	500.000	481.006	255012.26	0.9273	P	1.7
3	☐	5000.000	5088.399	2422130.21	8.7900	A	1.9
4	☐	12500.000	12581.815	5871520.26	21.5778	A	2.6
5	☐	25000.000	25369.764	11560183.58	43.4008	A	4.2
6	☐	50000.000	52100.448	22669533.27	89.0176	A	1.2
7	☐	100000.00	100210.39	44702705.44	171.1188	A	1.6
8	☐	500000.00	499726.47	222976456.6	852.9063	A	2.1

$$y = 0.0017 * x + 0.1065$$

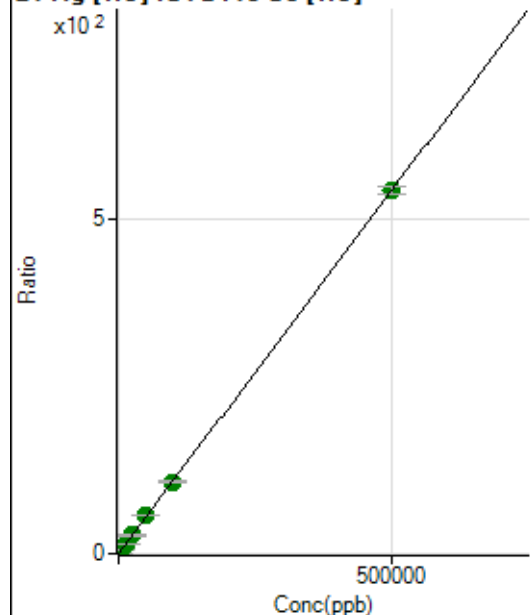
$$R = 1.0000$$

$$DL = 3.432$$

$$BEC = 62.39$$

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	787.81	0.0028	P	6.1
2	☐	500.000	484.847	145054.67	0.5275	P	1.7
3	☐	5000.000	5154.781	1537823.99	5.5807	A	1.7
4	☐	12500.000	12569.833	3702567.20	13.6043	A	1.3
5	☐	25000.000	25286.415	7291170.87	27.3646	A	2.9
6	☐	50000.000	52027.438	14337797.01	56.3003	A	1.3
7	☐	100000.00	99216.174	28045612.36	107.3619	A	2.1
8	☐	500000.00	499936.42	141429453.4	540.9702	A	1.9

$$y = 0.0011 * x + 0.0028$$

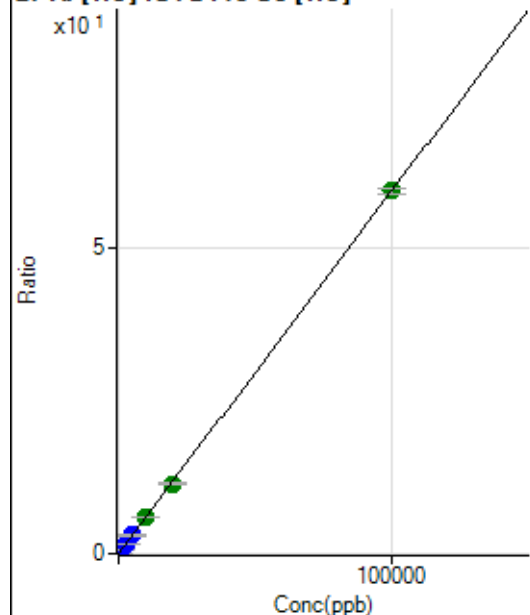
$$R = 1.0000$$

$$DL = 0.4771$$

$$BEC = 2.616$$

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	642.24	0.0023	P	12.1
2	☐	20.000	19.276	3770.49	0.0137	P	3.4
3	☐	1000.000	1026.679	168008.67	0.6097	P	1.8
4	☐	2500.000	2537.445	409154.71	1.5035	P	1.9
5	☐	5000.000	5114.314	806711.00	3.0281	P	3.4
6	☐	10000.000	10249.555	1544857.82	6.0662	A	1.0
7	☐	20000.000	19334.981	2988533.67	11.4413	A	2.8
8	☐	100000.00	100101.13	15483593.10	59.2244	A	1.9

$$y = 5.9162E-004 * x + 0.0023$$

$$R = 1.0000$$

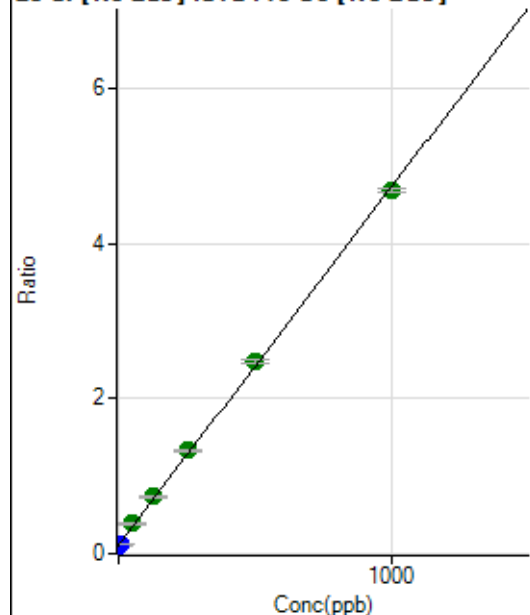
$$DL = 1.416$$

$$BEC = 3.896$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	364529.52	0.1115	P	1.0
2	☐	10.000	3.411	388846.76	0.1273	P	8.7
3	☐	50.000	59.376	1258661.57	0.3858	A	3.1
4	☐	125.000	134.479	2393733.94	0.7328	A	2.4
5	☐	250.000	264.409	4245037.61	1.3331	A	1.8
6	☐	500.000	511.602	7735252.94	2.4752	A	2.3
7	☐	1000.000	989.009	14306826.73	4.6809	A	1.2
8	☐			504029.53	0.1606	P	0.9

$$y = 0.0046 * x + 0.1115$$

$$R = 0.9997$$

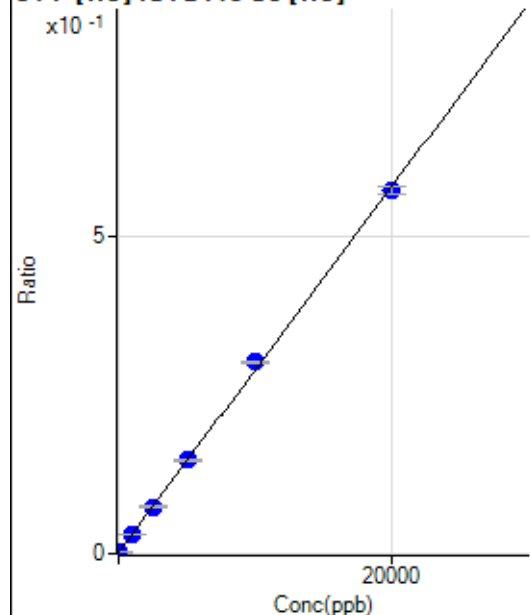
$$DL = 0.707$$

$$BEC = 24.13$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.994	390.01	0.0014	P	10.4
2	☐	0.000	11.994	575.57	0.0021	P	5.0
3	☐	1000.000	1008.998	8505.79	0.0309	P	4.4
4	☐	2500.000	2513.262	20222.33	0.0743	P	1.6
5	☐	5000.000	5041.426	39252.40	0.1473	P	2.2
6	☐	10000.000	10421.559	77065.74	0.3026	P	1.4
7	☐	20000.000	19776.756	149603.50	0.5727	P	2.3
8	☐			507.79	0.0019	P	13.7

$$y = 2.8871E-005 * x + 0.0017$$

$$R = 0.9997$$

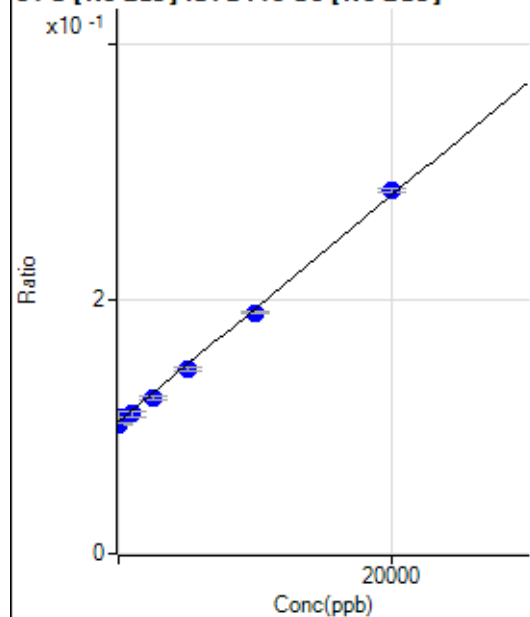
$$DL = 12.95$$

$$BEC = 60.49$$

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	-346.346	329559.18	0.1008	P	0.1
2	☐	0.000	346.346	326850.95	0.1070	P	8.6
3	☐	1000.000	642.196	357542.90	0.1096	P	2.9
4	☐	2500.000	2063.637	399322.44	0.1222	P	1.6
5	☐	5000.000	4621.585	461679.44	0.1450	P	2.4
6	☐	10000.000	9574.270	590874.08	0.1891	P	0.8
7	☐	20000.000	20379.904	871625.46	0.2852	P	1.1
8	☐			323737.71	0.1032	P	2.1

$$y = 8.8955\text{E-}006 * x + 0.1039$$

$$R = 0.9990$$

$$DL = 1574$$

$$BEC = 1.168\text{E}+04$$

Weight: <None>

Min Conc: 0

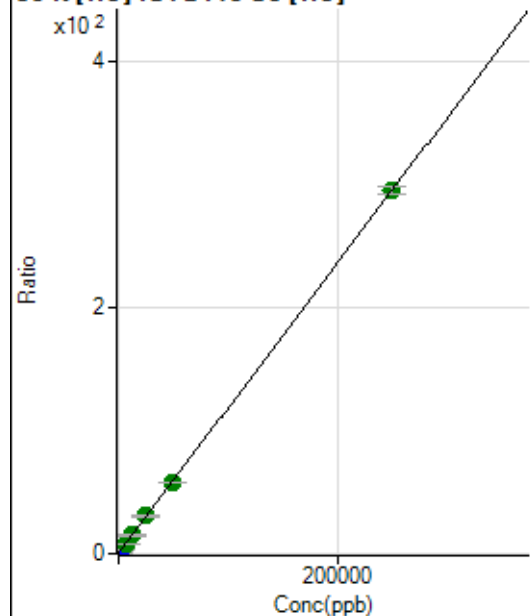
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	92905.51	0.3338	P	1.4
2	☐	500.000	485.876	249054.85	0.9056	P	1.6
3	☐	2500.000	2673.761	959095.21	3.4807	P	2.2
4	☐	6250.000	6234.760	2087900.37	7.6720	A	1.7
5	☐	12500.000	12471.110	3999574.98	15.0121	A	3.3
6	☐	25000.000	25614.801	7762691.48	30.4822	A	1.2
7	☐	50000.000	48937.204	15134077.69	57.9324	A	1.7
8	☐	250000.00	250151.19	77060514.41	294.7595	A	2.0

$$y = 0.0012 * x + 0.3338$$

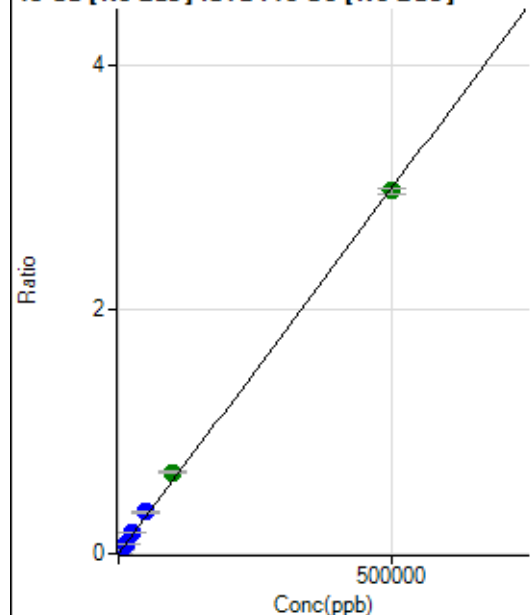
$$R = 1.0000$$

$$DL = 11.51$$

$$BEC = 283.6$$

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	233.34	0.0001	P	10.5
2	☐	500.000	521.180	9722.07	0.0032	P	11.2
3	☐	5000.000	5861.712	114505.30	0.0351	P	3.8
4	☐	12500.000	14266.736	278773.89	0.0853	P	1.6
5	☐	25000.000	28701.827	546490.33	0.1716	P	1.5
6	☐	50000.000	56715.647	1059552.35	0.3391	P	2.1
7	☐	100000.00	111829.33	2043107.77	0.6685	A	1.4
8	☐	500000.00	496724.67	9314274.65	2.9689	A	1.5

$$y = 5.9768\text{E-}006 * x + 7.1398\text{E-}005$$

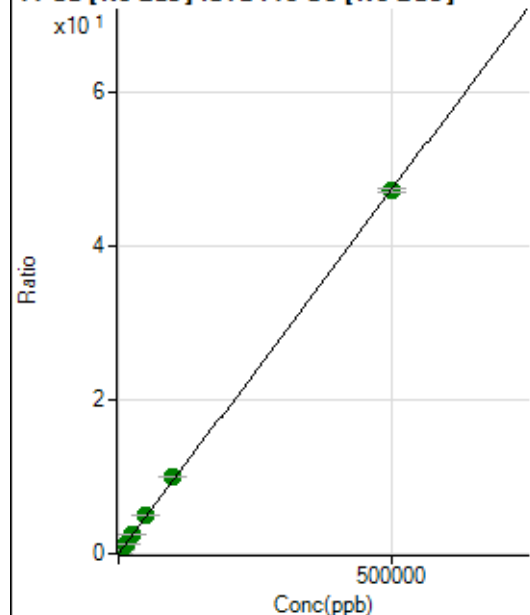
$$R = 0.9997$$

$$DL = 3.752$$

$$BEC = 11.95$$

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	20488.41	0.0063	P	1.6
2	☐	500.000	537.128	174661.55	0.0572	P	9.5
3	☐	5000.000	5398.773	1690014.64	0.5181	A	3.5
4	☐	12500.000	13035.874	4057825.67	1.2422	A	1.7
5	☐	25000.000	26535.789	8030614.05	2.5220	A	2.1
6	☐	50000.000	52179.253	15479987.68	4.9532	A	1.5
7	☐	100000.00	106160.42	30781620.93	10.0710	A	1.4
8	☐	500000.00	498455.77	148280002.2	47.2633	A	1.2

$$y = 9.4807\text{E-}005 * x + 0.0063$$

$$R = 0.9999$$

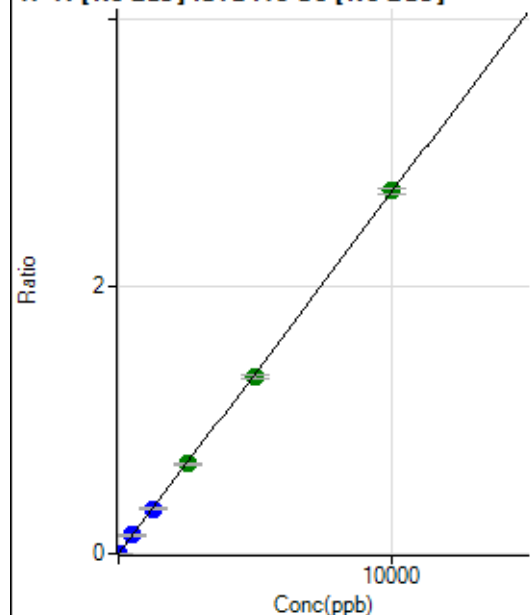
$$DL = 3.246$$

$$BEC = 66.11$$

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	118.89	0.0000	P	25.9
2	☐	5.000	5.335	4510.72	0.0015	P	11.1
3	☐	500.000	511.513	451059.70	0.1383	P	3.2
4	☐	1250.000	1246.428	1100514.04	0.3369	P	1.3
5	☐	2500.000	2489.831	2142900.52	0.6729	A	1.3
6	☐	5000.000	4911.698	4148281.74	1.3274	A	2.2
7	☐	10000.000	10046.564	8298310.78	2.7152	A	1.6
8	☐			2751.08	0.0009	P	26.5

$$y = 2.7025\text{E-}004 * x + 3.6403\text{E-}005$$

$$R = 0.9999$$

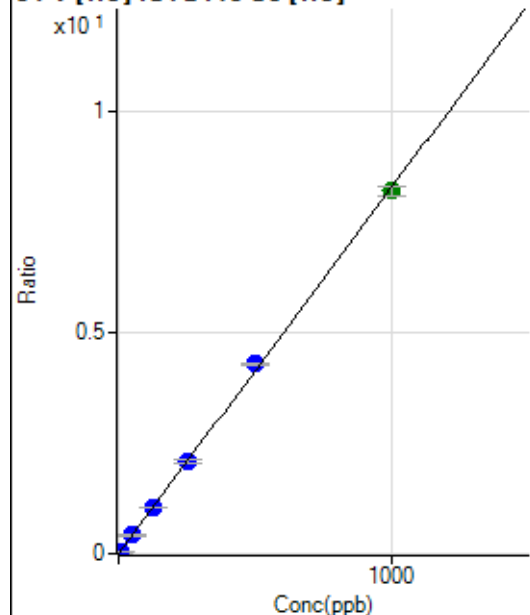
$$DL = 0.1045$$

$$BEC = 0.1347$$

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	32.22	0.0001	P	16.2
2	☐	5.000	4.755	10879.54	0.0396	P	1.7
3	☐	50.000	50.251	114884.72	0.4169	P	1.9
4	☐	125.000	124.762	281639.00	1.0350	P	2.1
5	☐	250.000	251.244	555189.13	2.0841	P	3.7
6	☐	500.000	517.764	1093722.59	4.2947	P	1.1
7	☐	1000.000	990.826	2146752.38	8.2185	A	2.7
8	☐			1018.94	0.0039	P	5.3

$$y = 0.0083 * x + 1.1582\text{E-}004$$

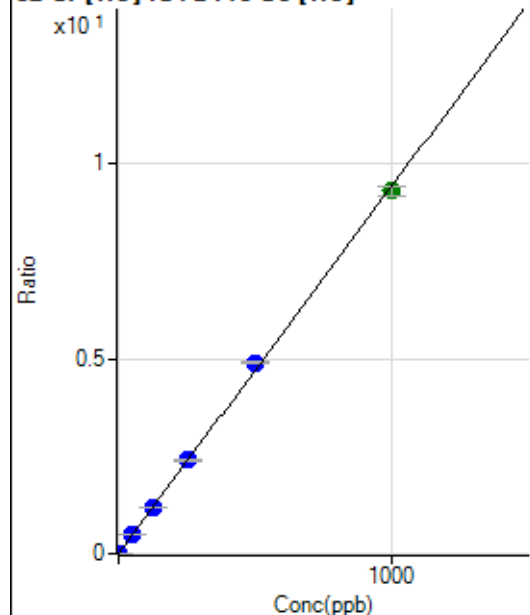
$$R = 0.9998$$

$$DL = 0.0068$$

$$BEC = 0.01396$$

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	636.69	0.0023	P	6.4
2	☐	2.000	1.950	5681.14	0.0207	P	3.7
3	☐	50.000	51.459	134168.98	0.4869	P	2.0
4	☐	125.000	126.519	324866.20	1.1938	P	2.0
5	☐	250.000	254.158	638256.93	2.3958	P	3.6
6	☐	500.000	520.841	1249736.06	4.9074	P	1.1
7	☐	1000.000	988.277	2431739.65	9.3095	A	2.7
8	☐			35984.06	0.1376	P	1.1

$$y = 0.0094 * x + 0.0023$$

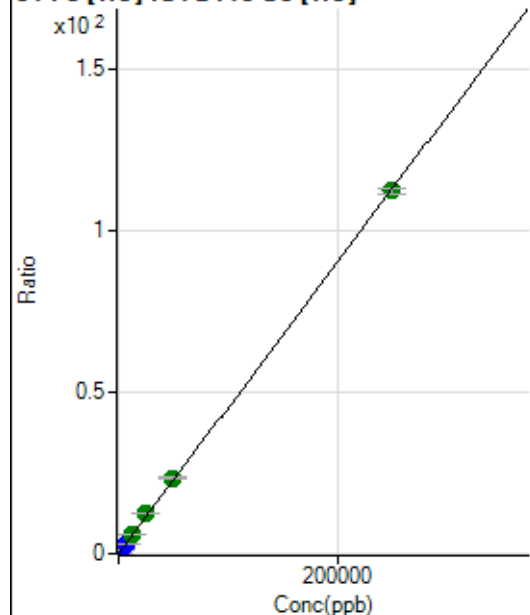
$$R = 0.9997$$

$$DL = 0.04635$$

$$BEC = 0.2427$$

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	2155.80	0.0077	P	9.6
2	☐	50.000	52.291	8599.19	0.0313	P	2.4
3	☐	2500.000	2824.787	352250.28	1.2783	P	1.6
4	☐	6250.000	6942.370	851877.75	3.1303	P	1.8
5	☐	12500.000	13381.936	1605655.60	6.0268	A	3.3
6	☐	25000.000	27339.440	3133528.04	12.3047	A	1.4
7	☐	50000.000	52144.694	6128724.35	23.4618	A	2.2
8	☐	250000.00	249272.46	29315553.17	112.1275	A	1.6

$$y = 4.4979E-004 * x + 0.0077$$

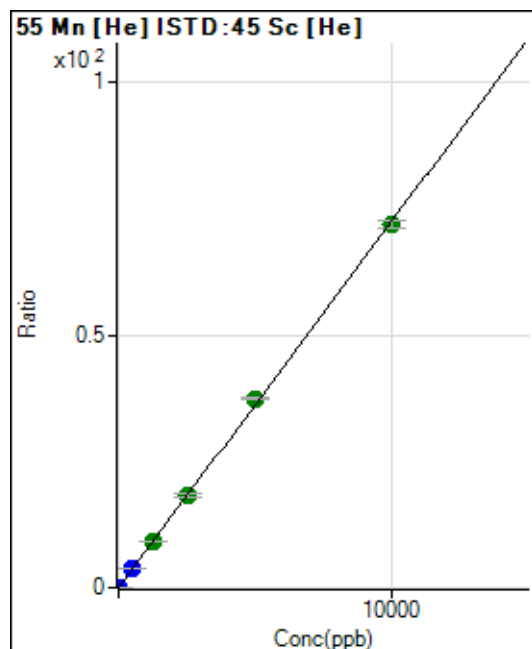
$$R = 0.9999$$

$$DL = 4.986$$

$$BEC = 17.23$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	544.46	0.0020	P	2.8
2	☐	1.000	0.964	2456.89	0.0089	P	4.8
3	☐	500.000	519.317	1036466.31	3.7614	P	1.9
4	☐	1250.000	1247.771	2459125.03	9.0348	A	1.0
5	☐	2500.000	2522.113	4863879.37	18.2601	A	4.2
6	☐	5000.000	5165.827	9524014.16	37.3985	A	1.3
7	☐	10000.000	9910.871	18742683.05	71.7489	A	2.0
8	☐			12623.15	0.0483	P	2.5

$$y = 0.0072 * x + 0.0020$$

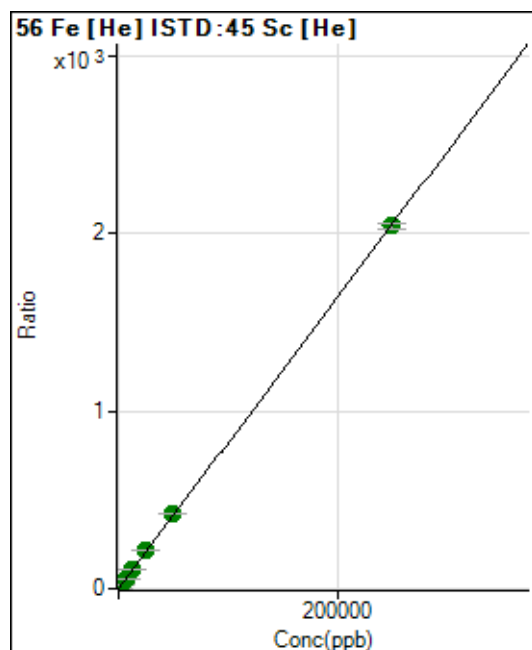
$$R = 0.9998$$

$$DL = 0.02257$$

$$BEC = 0.2702$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16436.32	0.0590	P	3.0
2	☐	50.000	51.249	131693.81	0.4789	P	2.1
3	☐	2500.000	2636.658	5968682.76	21.6599	A	1.6
4	☐	6250.000	6521.001	14554312.15	53.4824	A	1.9
5	☐	12500.000	13094.613	28593346.24	107.3368	A	3.8
6	☐	25000.000	26711.337	55746377.50	218.8920	A	0.8
7	☐	50000.000	51409.108	110041101.7	421.2289	A	1.6
8	☐	250000.00	249509.17	534427454.2	2,044.166	A	1.8

$$y = 0.0082 * x + 0.0590$$

$$R = 1.0000$$

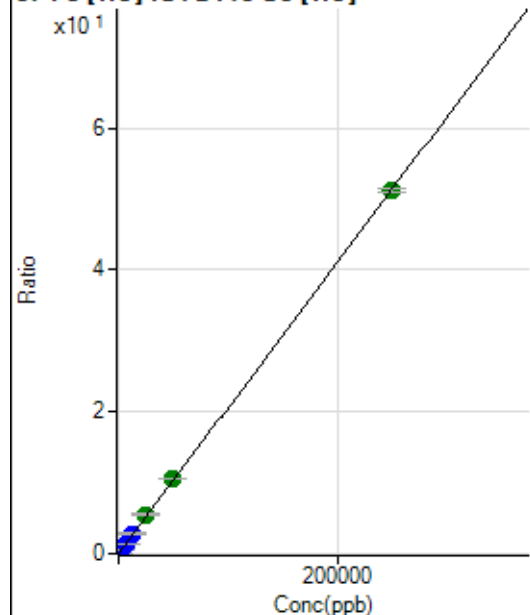
$$DL = 0.6537$$

$$BEC = 7.207$$

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	635.58	0.0023	P	13.8
2	☐	50.000	54.969	3726.06	0.0136	P	5.7
3	☐	2500.000	2777.244	157562.35	0.5718	P	1.7
4	☐	6250.000	6841.210	382402.10	1.4052	P	1.6
5	☐	12500.000	13705.964	749397.04	2.8129	P	3.3
6	☐	25000.000	26972.927	1409220.45	5.5334	A	1.0
7	☐	50000.000	51320.440	2749917.74	10.5262	A	1.5
8	☐	250000.00	249460.76	13376006.47	51.1575	A	1.0

$$y = 2.0506\text{E-}004 * x + 0.0023$$

R = 1.0000

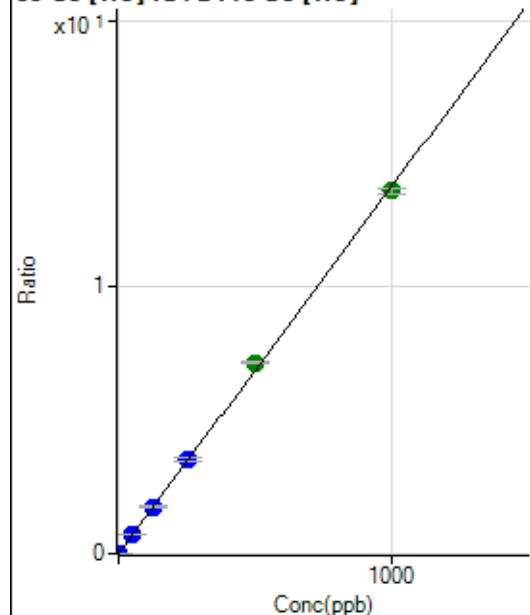
DL = 4.622

BEC = 11.13

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	81.11	0.0003	P	9.1
2	☐	1.000	0.983	3803.86	0.0138	P	2.0
3	☐	50.000	52.108	197800.60	0.7179	P	2.3
4	☐	125.000	127.678	478552.11	1.7585	P	2.0
5	☐	250.000	255.406	937039.58	3.5175	P	3.7
6	☐	500.000	519.352	1821497.33	7.1523	A	0.9
7	☐	1000.000	988.532	3556256.75	13.6133	A	1.8
8	☐			10741.72	0.0411	P	4.2

$$y = 0.0138 * x + 2.9147\text{E-}004$$

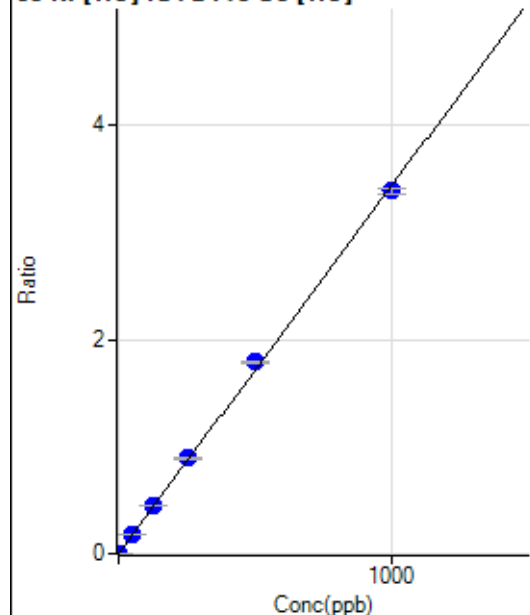
R = 0.9997

DL = 0.005801

BEC = 0.02117

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	323.34	0.0012	P	7.9
2	☐	1.000	0.981	1244.51	0.0045	P	5.6
3	☐	50.000	53.350	50764.48	0.1842	P	2.1
4	☐	125.000	129.607	121353.31	0.4459	P	1.3
5	☐	250.000	258.896	236992.96	0.8895	P	3.3
6	☐	500.000	520.633	455257.68	1.7877	P	1.2
7	☐	1000.000	986.716	884810.04	3.3870	P	1.7
8	☐			9828.85	0.0376	P	5.5

$$y = 0.0034 * x + 0.0012$$

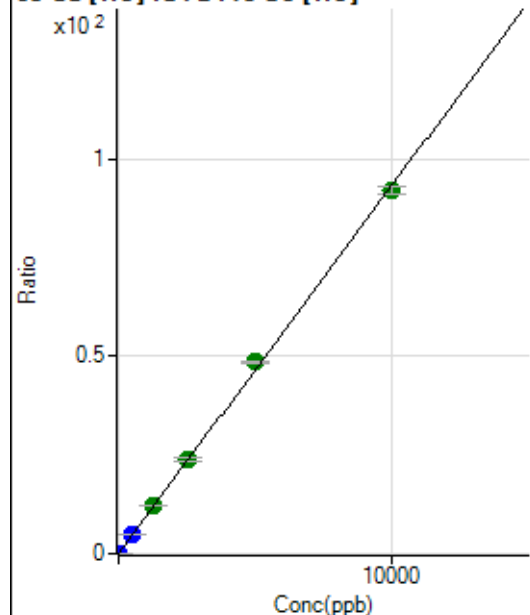
$$R = 0.9996$$

$$DL = 0.07985$$

$$BEC = 0.3384$$

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	1155.61	0.0042	P	8.6
2	☐	2.000	1.934	6090.18	0.0221	P	4.1
3	☐	500.000	528.595	1356916.39	4.9244	P	1.9
4	☐	1250.000	1300.422	3295012.00	12.1086	A	2.2
5	☐	2500.000	2569.323	6372560.67	23.9196	A	3.4
6	☐	5000.000	5215.500	12364244.26	48.5505	A	1.0
7	☐	10000.000	9867.187	23993317.70	91.8488	A	2.0
8	☐			8836.01	0.0338	P	3.2

$$y = 0.0093 * x + 0.0042$$

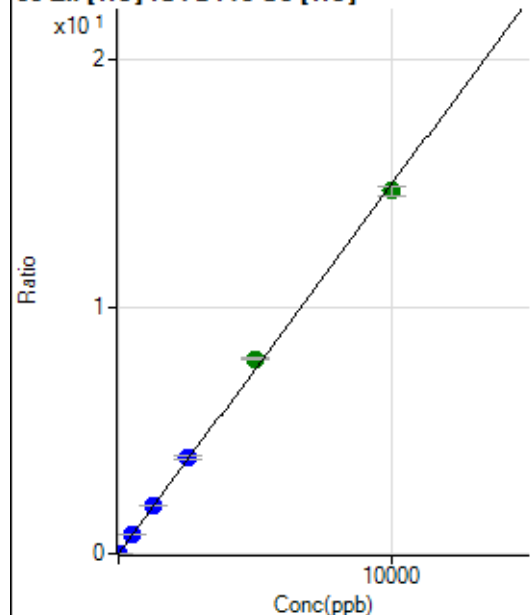
$$R = 0.9996$$

$$DL = 0.1157$$

$$BEC = 0.4459$$

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	678.91	0.0024	P	4.3
2	☐	5.000	5.818	3061.45	0.0111	P	2.0
3	☐	500.000	528.422	218223.61	0.7919	P	1.7
4	☐	1250.000	1302.591	530246.63	1.9486	P	2.2
5	☐	2500.000	2607.271	1038384.14	3.8978	P	3.6
6	☐	5000.000	5272.962	2006992.19	7.8804	A	0.5
7	☐	10000.000	9828.706	3836491.96	14.6869	A	2.4
8	☐			2320.20	0.0089	P	4.4

$$y = 0.0015 * x + 0.0024$$

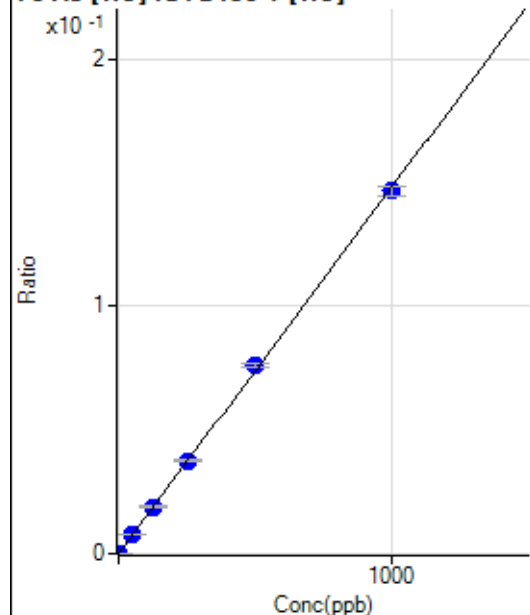
$$R = 0.9994$$

$$DL = 0.2086$$

$$BEC = 1.632$$

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	3.33	0.0000	P	100.
2	☐	1.000	1.008	283.34	0.0002	P	8.3
3	☐	50.000	51.464	14186.88	0.0076	P	2.4
4	☐	125.000	127.239	34923.23	0.0188	P	2.9
5	☐	250.000	253.978	68448.99	0.0376	P	3.4
6	☐	500.000	514.992	134379.34	0.0762	P	1.7
7	☐	1000.000	991.156	264574.29	0.1467	P	2.9
8	☐			222.23	0.0001	P	11.9

$$y = 1.4802E-004 * x + 1.7525E-006$$

$$R = 0.9998$$

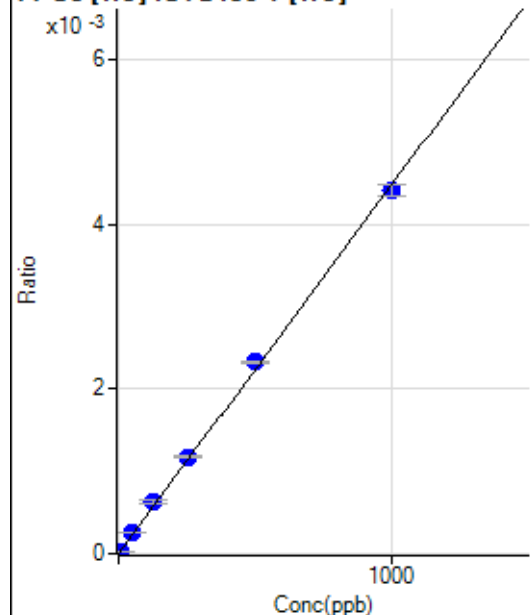
$$DL = 0.03575$$

$$BEC = 0.01184$$

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	0.00	0.0000	P	
2	☐	5.000	4.206	35.55	0.0000	P	36.5
3	☐	50.000	59.135	493.35	0.0003	P	2.1
4	☐	125.000	140.699	1168.95	0.0006	P	4.4
5	☐	250.000	262.701	2142.40	0.0012	P	3.0
6	☐	500.000	520.246	4107.27	0.0023	P	0.8
7	☐	1000.000	984.286	7948.86	0.0044	P	3.2
8	☐			6.67	0.0000	P	86.7

$$y = 4.4783\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

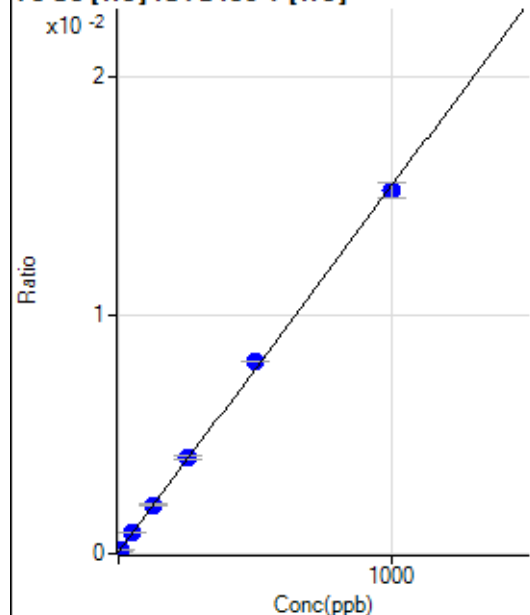
$$DL = 0$$

$$BEC = 0$$

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	132.23	0.0001	P	4.6
2	☐	5.000	5.691	294.45	0.0002	P	3.0
3	☐	50.000	54.136	1677.89	0.0009	P	2.6
4	☐	125.000	128.898	3801.63	0.0020	P	1.5
5	☐	250.000	259.271	7377.46	0.0041	P	3.8
6	☐	500.000	520.775	14226.94	0.0081	P	0.5
7	☐	1000.000	986.597	27452.21	0.0152	P	4.1
8	☐			146.67	0.0001	P	6.4

$$y = 1.5362\text{E-}005 * x + 6.9378\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.6181$$

$$BEC = 4.516$$

Weight: <None>

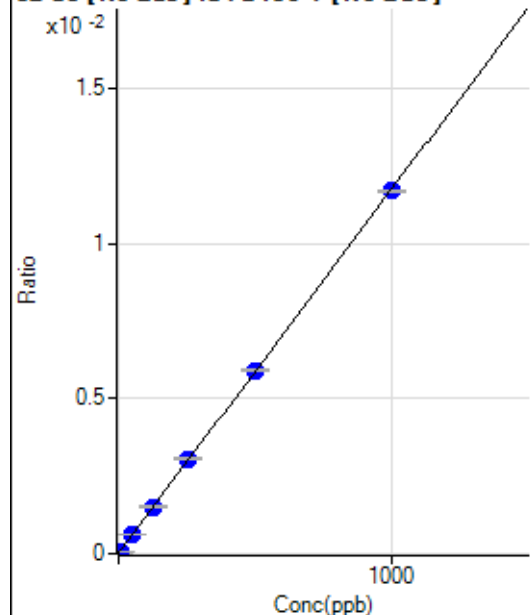
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24330.17		P	0.8
2	☐			23438.67		P	1.9
3	☐			23909.46		P	0.3
4	☐			23353.04		P	1.9
5	☐			22460.50		P	1.4
6	☐			22459.40		P	1.6
7	☐			22797.70		P	1.3
8	☐			22821.12		P	0.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.67		P	12.4
2	☐			62.22		P	46.2
3	☐			66.66		P	22.9
4	☐			68.89		P	19.6
5	☐			73.34		P	15.7
6	☐			77.78		P	17.3
7	☐			53.34		P	43.3
8	☐			63.33		P	24.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.03	0.0000	P	22.2
2	☐	5.000	5.317	583.97	0.0001	P	2.7
3	☐	50.000	52.107	5091.47	0.0006	P	3.6
4	☐	125.000	128.152	12583.69	0.0015	P	2.0
5	☐	250.000	258.790	24673.82	0.0030	P	2.1
6	☐	500.000	502.714	47475.88	0.0059	P	0.9
7	☐	1000.000	995.944	92011.22	0.0117	P	0.7
8	☐			197.24	0.0000	P	15.8

$$y = 1.1723\text{E-}005 * x + 1.3625\text{E-}005$$

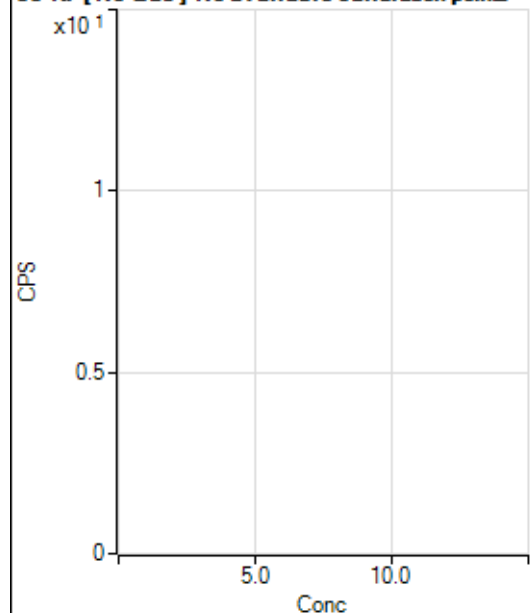
$$R = 1.0000$$

$$DL = 0.7742$$

$$BEC = 1.162$$

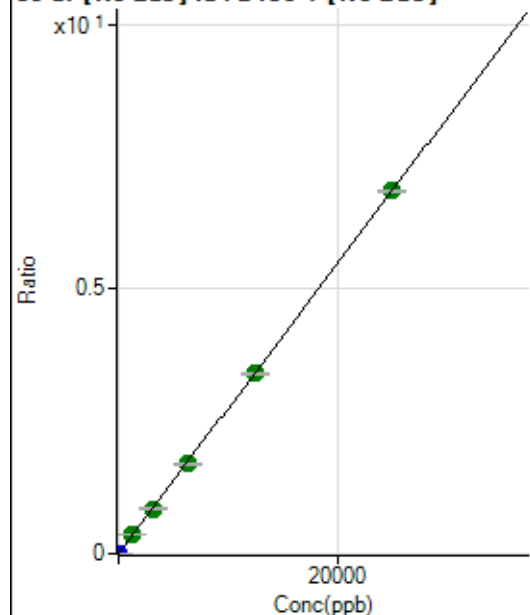
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			73.33		P	18.2
2	☐			66.67		P	8.7
3	☐			111.11		P	16.5
4	☐			82.22		P	8.4
5	☐			78.89		P	9.8
6	☐			103.33		P	14.1
7	☐			102.22		P	33.9
8	☐			101.11		P	33.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.12	0.0000	P	5.5
2	☐	1.000	0.973	2259.09	0.0003	P	5.9
3	☐	1250.000	1282.800	2862446.80	0.3510	A	3.1
4	☐	3125.000	3097.731	7036614.69	0.8477	A	1.8
5	☐	6250.000	6226.120	13794915.63	1.7037	A	1.8
6	☐	12500.000	12418.117	27314122.93	3.3980	A	0.6
7	☐	25000.000	25048.680	53954908.09	6.8540	A	0.4
8	☐			16328.47	0.0021	P	24.3

$$y = 2.7363E-004 * x + 2.8336E-005$$

$$R = 1.0000$$

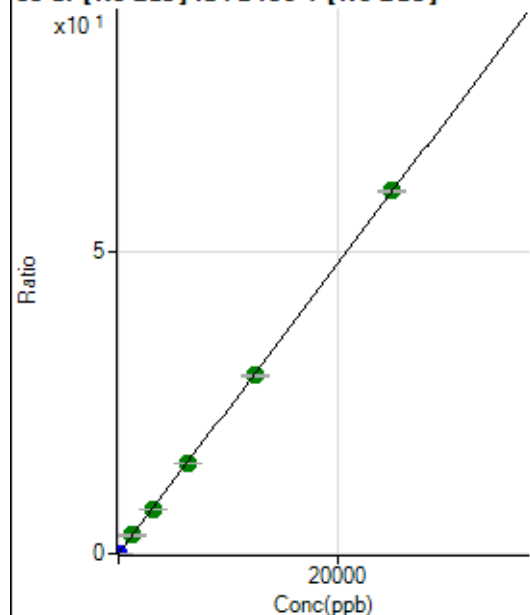
$$DL = 0.01707$$

$$BEC = 0.1036$$

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	844.48	0.0001	P	1.4
2	☐	1.000	1.005	19208.18	0.0025	P	10.1
3	☐	1250.000	1265.099	24710217.41	3.0305	A	3.4
4	☐	3125.000	3073.715	61128269.65	7.3629	A	1.1
5	☐	6250.000	6229.449	120842320.4	14.9221	A	0.9
6	☐	12500.000	12320.343	237221172.0	29.5122	A	1.5
7	☐	25000.000	25100.622	473302975.1	60.1260	A	0.7
8	☐			141443.37	0.0181	P	22.7

$$y = 0.0024 * x + 1.0355E-004$$

$$R = 1.0000$$

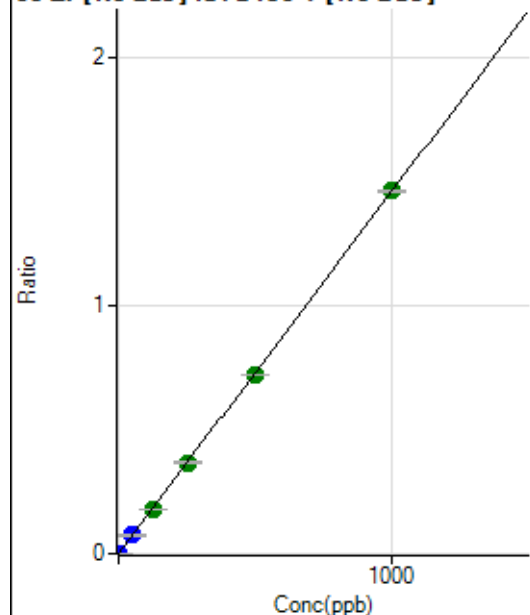
$$DL = 0.001766$$

$$BEC = 0.04323$$

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	348.90	0.0000	P	2.7
2	☐	1.000	0.959	11007.53	0.0014	P	12.0
3	☐	50.000	50.732	603196.98	0.0740	P	3.5
4	☐	125.000	123.588	1495680.69	0.1802	A	1.2
5	☐	250.000	251.104	2963497.67	0.3660	A	2.0
6	☐	500.000	494.512	5793295.33	0.7207	A	0.5
7	☐	1000.000	1002.608	11502153.86	1.4612	A	0.8
8	☐			7624.27	0.0010	P	10.8

$$y = 0.0015 * x + 4.2785E-005$$

$$R = 1.0000$$

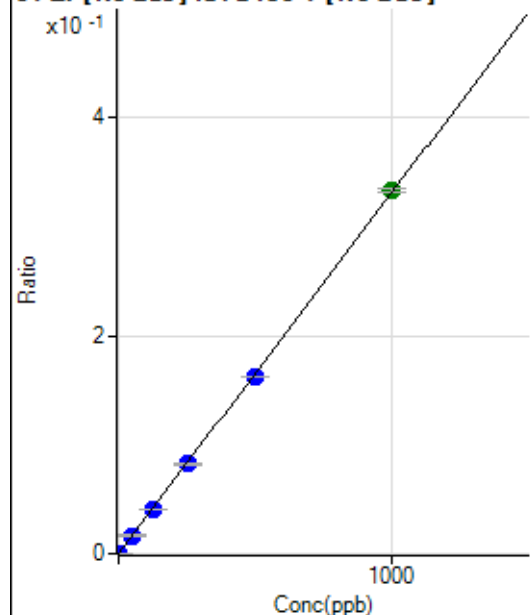
$$DL = 0.002366$$

$$BEC = 0.02936$$

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	66.67	0.0000	P	12.7
2	☐	1.000	0.954	2471.34	0.0003	P	13.7
3	☐	50.000	50.337	135787.31	0.0167	P	4.2
4	☐	125.000	122.224	335618.60	0.0404	P	2.0
5	☐	250.000	248.823	666464.86	0.0823	P	1.1
6	☐	500.000	490.354	1303644.18	0.1622	P	1.0
7	☐	1000.000	1005.448	2617612.29	0.3325	A	1.1
8	☐			1659.00	0.0002	P	8.4

$$y = 3.3073E-004 * x + 8.1708E-006$$

$$R = 0.9999$$

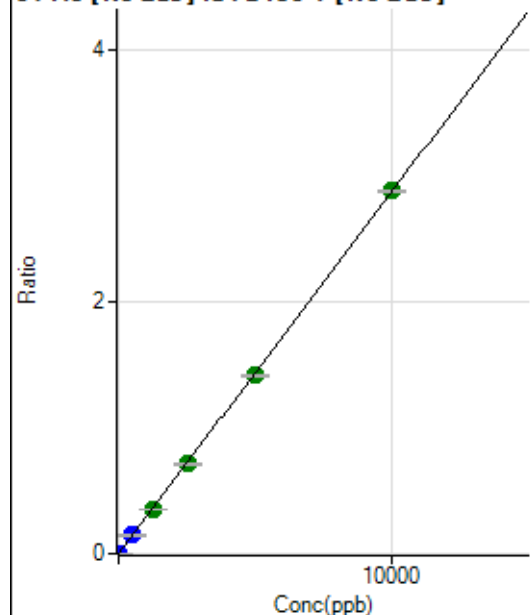
$$DL = 0.009428$$

$$BEC = 0.02471$$

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	433.34	0.0001	P	5.3
2	☐	5.000	5.876	13301.68	0.0017	P	10.3
3	☐	500.000	509.422	1192259.43	0.1462	P	3.8
4	☐	1250.000	1233.992	2940246.21	0.3542	A	1.3
5	☐	2500.000	2494.814	5797310.75	0.7160	A	1.8
6	☐	5000.000	4937.509	11388786.50	1.4169	A	1.0
7	☐	10000.000	10034.071	22666994.66	2.8794	A	0.2
8	☐			13005.95	0.0017	P	13.8

$$y = 2.8696E-004 * x + 5.3146E-005$$

$$R = 1.0000$$

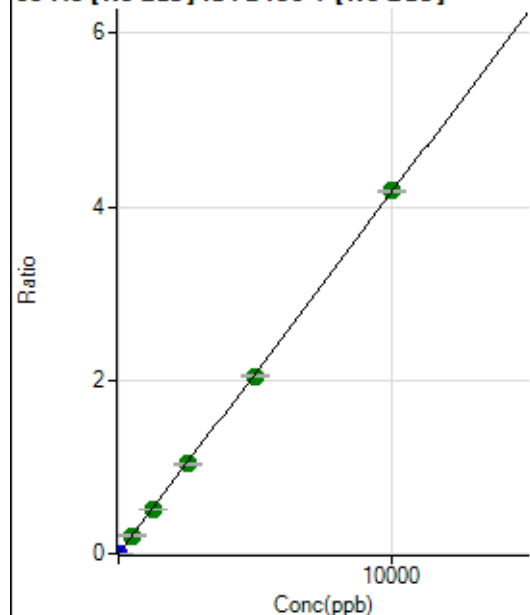
$$DL = 0.0296$$

$$BEC = 0.1852$$

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	1051.16	0.0001	P	11.5
2	☐	5.000	5.011	16927.65	0.0022	P	10.6
3	☐	500.000	504.981	1713917.18	0.2102	A	4.3
4	☐	1250.000	1231.728	4255330.18	0.5126	A	2.1
5	☐	2500.000	2487.879	8383719.74	1.0353	A	1.3
6	☐	5000.000	4910.927	16424828.51	2.0435	A	1.0
7	☐	10000.000	10049.602	32915778.68	4.1815	A	0.7
8	☐			18469.70	0.0024	P	13.3

$$y = 4.1608E-004 * x + 1.2892E-004$$

$$R = 0.9999$$

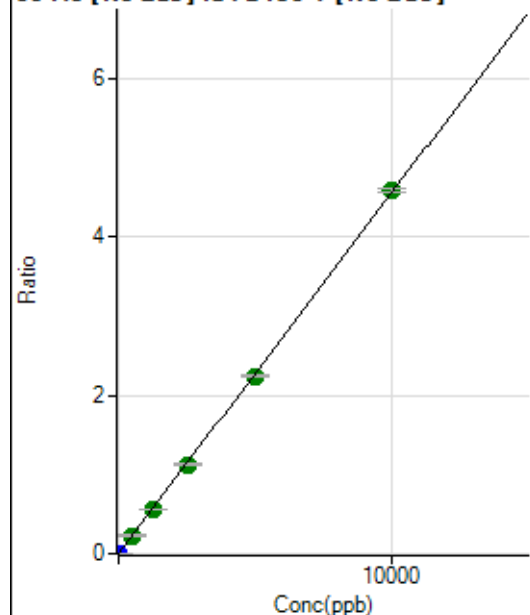
$$DL = 0.1065$$

$$BEC = 0.3099$$

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	285.56	0.0000	P	17.4
2	☐	5.000	4.906	17360.41	0.0023	P	10.3
3	☐	500.000	503.881	1871723.43	0.2296	A	3.7
4	☐	1250.000	1219.703	4612827.78	0.5556	A	1.5
5	☐	2500.000	2469.157	9107954.10	1.1248	A	1.7
6	☐	5000.000	4906.479	17965805.84	2.2351	A	1.1
7	☐	10000.000	10058.064	36065555.85	4.5818	A	1.0
8	☐			22942.69	0.0029	P	12.4

$$y = 4.5553\text{E-}004 * x + 3.5025\text{E-}005$$

$$R = 0.9999$$

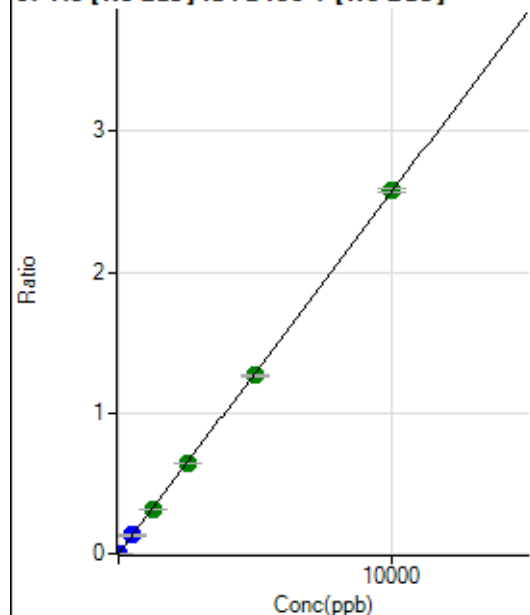
$$DL = 0.04006$$

$$BEC = 0.07689$$

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	293.34	0.0000	P	7.0
2	☐	5.000	4.976	10049.08	0.0013	P	10.2
3	☐	500.000	509.764	1067635.72	0.1310	P	4.2
4	☐	1250.000	1232.656	2628693.60	0.3166	A	1.1
5	☐	2500.000	2501.543	5202746.14	0.6425	A	1.5
6	☐	5000.000	4933.347	10184953.25	1.2671	A	1.1
7	☐	10000.000	10034.621	20287666.22	2.5773	A	1.0
8	☐			11047.66	0.0014	P	13.9

$$y = 2.5683\text{E-}004 * x + 3.5971\text{E-}005$$

$$R = 1.0000$$

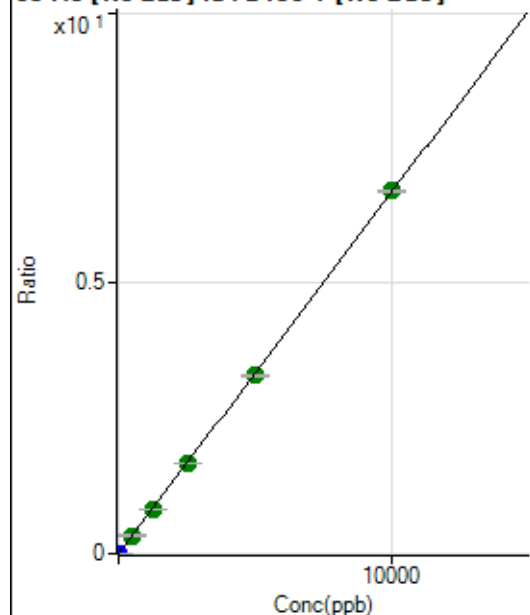
$$DL = 0.02947$$

$$BEC = 0.1401$$

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	316.67	0.0000	P	16.3
2	☐	5.000	4.961	25643.67	0.0034	P	9.6
3	☐	500.000	502.278	2734979.09	0.3355	A	4.4
4	☐	1250.000	1231.140	6825938.51	0.8223	A	2.0
5	☐	2500.000	2499.543	13517934.38	1.6694	A	1.4
6	☐	5000.000	4925.806	26443986.55	3.2898	A	1.2
7	☐	10000.000	10039.455	52779633.10	6.7049	A	0.7
8	☐			27710.02	0.0036	P	13.2

$$y = 6.6786\text{E-}004 * x + 3.8813\text{E-}005$$

$$R = 1.0000$$

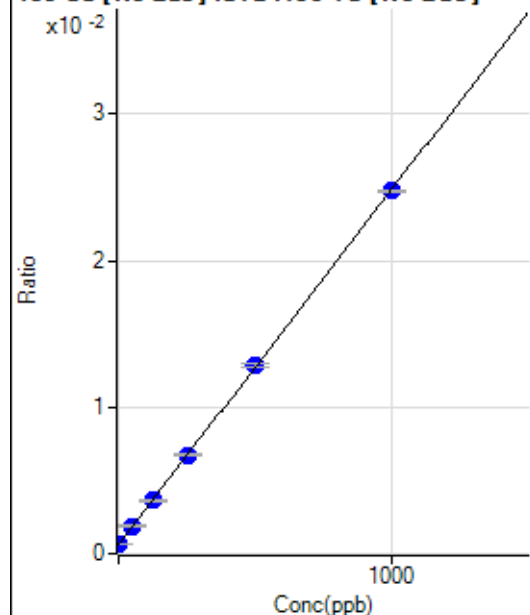
$$DL = 0.02836$$

$$BEC = 0.05812$$

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	4820.85	0.0006	P	2.4
2	☐	1.000	0.347	4598.56	0.0006	P	2.3
3	☐	50.000	52.789	14757.59	0.0019	P	4.3
4	☐	125.000	124.840	29334.11	0.0036	P	2.1
5	☐	250.000	252.530	53315.08	0.0067	P	1.8
6	☐	500.000	504.945	99836.72	0.0128	P	1.5
7	☐	1000.000	996.776	191198.42	0.0248	P	0.2
8	☐			4649.68	0.0006	P	3.6

$$y = 2.4209\text{E-}005 * x + 6.1978\text{E-}004$$

$$R = 1.0000$$

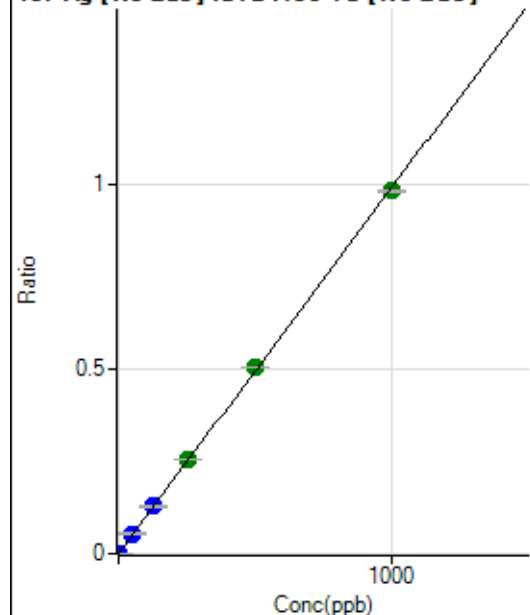
$$DL = 1.813$$

$$BEC = 25.6$$

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	101.11	0.0000	P	21.5
2	☐	1.000	1.012	7404.18	0.0010	P	6.9
3	☐	50.000	54.733	421947.33	0.0543	P	3.4
4	☐	125.000	129.485	1033772.26	0.1283	P	1.6
5	☐	250.000	258.006	2024888.46	0.2557	A	1.6
6	☐	500.000	510.333	3931446.57	0.5058	A	0.7
7	☐	1000.000	992.035	7594993.57	0.9832	A	0.7
8	☐			2083.51	0.0003	P	25.3

$$y = 9.9104\text{E-}004 * x + 1.3001\text{E-}005$$

$$R = 0.9999$$

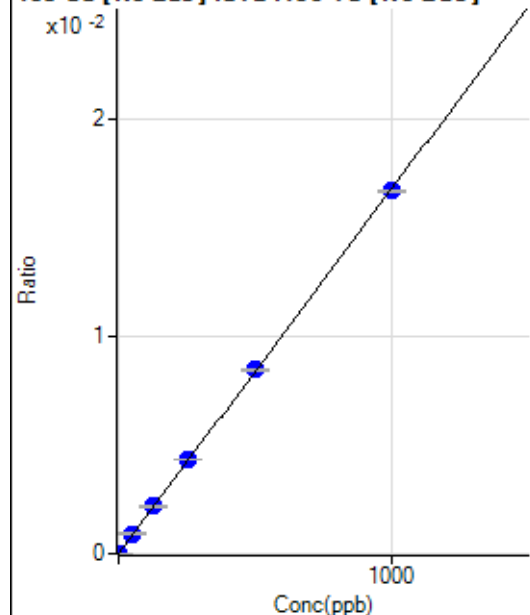
$$DL = 0.008469$$

$$BEC = 0.01312$$

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	8.89	0.0000	P	21.6
2	☐	1.000	1.059	137.78	0.0000	P	10.5
3	☐	50.000	55.120	7208.53	0.0009	P	7.0
4	☐	125.000	129.297	17516.24	0.0022	P	2.9
5	☐	250.000	257.739	34312.74	0.0043	P	1.4
6	☐	500.000	504.451	65917.73	0.0085	P	0.9
7	☐	1000.000	995.047	129205.58	0.0167	P	0.7
8	☐			108.89	0.0000	P	14.2

$$y = 1.6808\text{E-}005 * x + 1.1430\text{E-}006$$

$$R = 0.9999$$

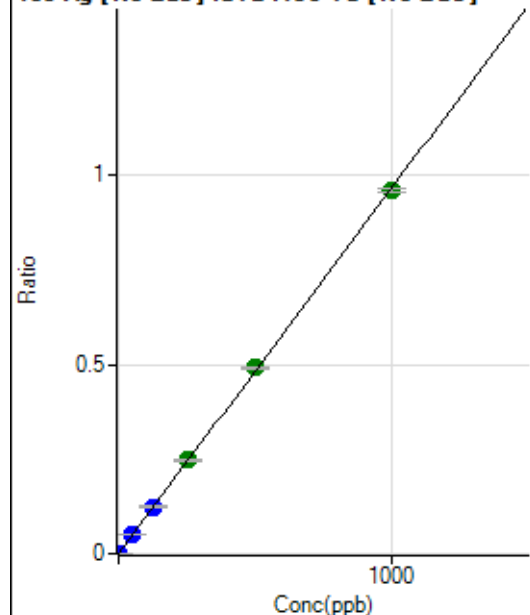
$$DL = 0.04415$$

$$BEC = 0.068$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	53.33	0.0000	P	43.8
2	☐	1.000	0.986	6973.97	0.0010	P	7.7
3	☐	50.000	53.902	404394.30	0.0520	P	3.6
4	☐	125.000	128.128	995561.84	0.1236	P	1.9
5	☐	250.000	257.692	1968260.72	0.2486	A	2.0
6	☐	500.000	508.977	3816335.57	0.4910	A	0.9
7	☐	1000.000	993.002	7399139.26	0.9579	A	1.1
8	☐			2001.28	0.0003	P	26.8

$$y = 9.6461\text{E-}004 * x + 6.8584\text{E-}006$$

$$R = 0.9999$$

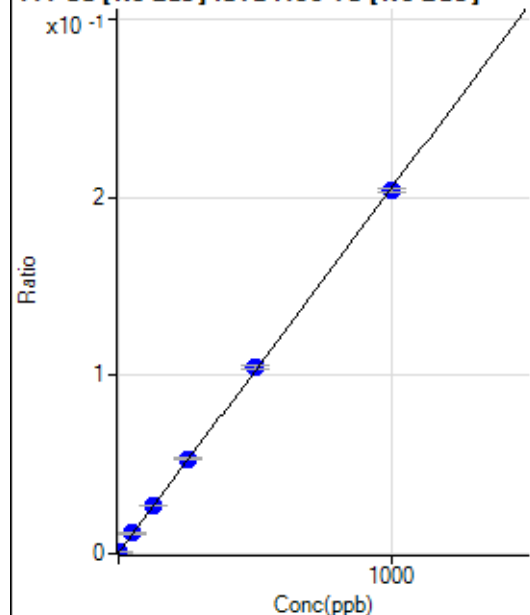
$$DL = 0.009351$$

$$BEC = 0.00711$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3375.04	0.0004	P	2.4
2	☐	1.000	1.031	4715.99	0.0006	P	0.5
3	☐	50.000	54.009	89328.38	0.0115	P	3.5
4	☐	125.000	129.067	216238.39	0.0268	P	2.0
5	☐	250.000	257.589	420827.27	0.0531	P	1.9
6	☐	500.000	509.354	813611.65	0.1047	P	1.2
7	☐	1000.000	992.717	1572672.94	0.2036	P	0.9
8	☐			3639.67	0.0005	P	6.2

$$y = 2.0465\text{E-}004 * x + 4.3390\text{E-}004$$

$$R = 0.9999$$

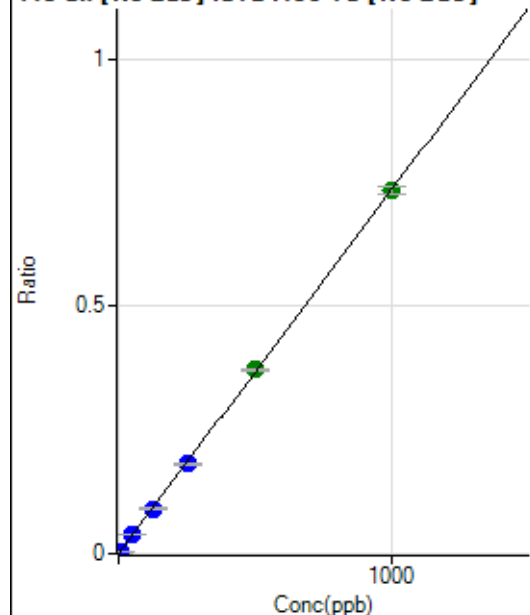
$$DL = 0.1511$$

$$BEC = 2.12$$

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	1033.38	0.0001	P	8.6
2	☐	5.000	5.084	28169.79	0.0039	P	9.0
3	☐	50.000	51.212	293870.80	0.0378	P	3.7
4	☐	125.000	123.325	731539.96	0.0908	P	1.5
5	☐	250.000	248.264	1446416.54	0.1827	P	2.2
6	☐	500.000	505.883	2892615.30	0.3721	A	1.2
7	☐	1000.000	997.641	5667435.12	0.7337	A	2.1
8	☐			5535.56	0.0007	P	6.1

$$y = 7.3531E-004 * x + 1.3286E-004$$

$$R = 1.0000$$

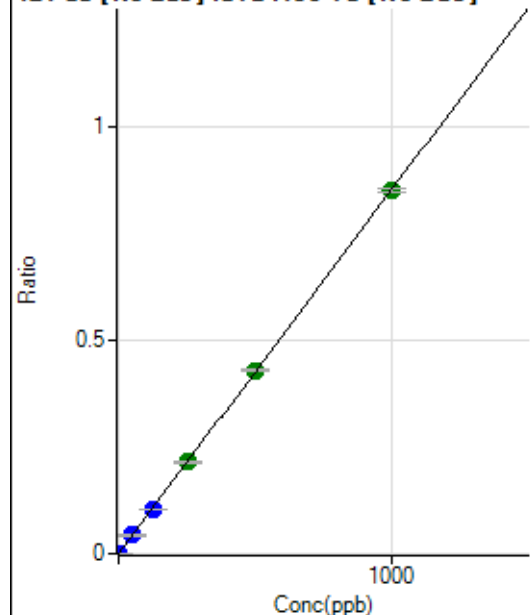
$$DL = 0.04644$$

$$BEC = 0.1807$$

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	81.11	0.0000	P	2.3
2	☐	2.000	2.009	12552.22	0.0017	P	9.0
3	☐	50.000	50.672	336369.67	0.0433	P	3.8
4	☐	125.000	122.374	841337.79	0.1044	P	1.7
5	☐	250.000	252.403	1705788.15	0.2154	A	1.6
6	☐	500.000	504.662	3348015.78	0.4307	A	0.9
7	☐	1000.000	997.363	6575150.18	0.8512	A	1.1
8	☐			5345.48	0.0007	P	6.1

$$y = 8.5344E-004 * x + 1.0428E-005$$

$$R = 1.0000$$

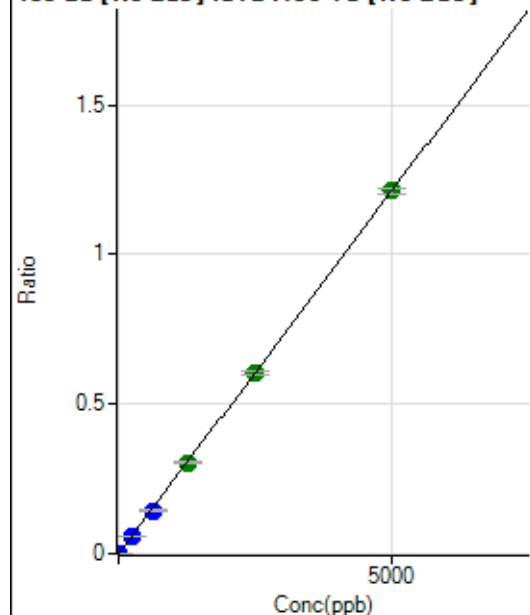
$$DL = 0.0008459$$

$$BEC = 0.01222$$

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	33.33	0.0000	P	36.0
2	☐	10.000	9.667	17066.97	0.0023	P	9.2
3	☐	250.000	246.047	463501.31	0.0596	P	3.8
4	☐	625.000	593.042	1157116.42	0.1437	P	1.8
5	☐	1250.000	1254.177	2405544.69	0.3038	A	2.1
6	☐	2500.000	2494.661	4697226.39	0.6043	A	1.2
7	☐	5000.000	5005.818	9366495.90	1.2126	A	1.4
8	☐			4558.56	0.0006	P	14.4

$$y = 2.4223\text{E-}004 * x + 4.2847\text{E-}006$$

$$R = 1.0000$$

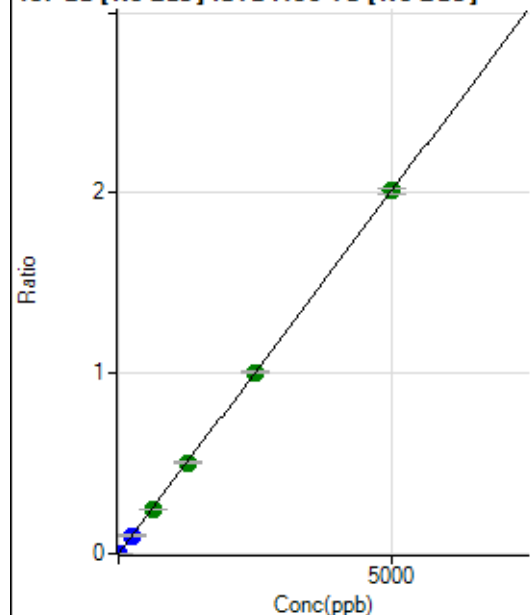
$$DL = 0.0191$$

$$BEC = 0.01769$$

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	68.89	0.0000	P	41.1
2	☐	10.000	9.896	29044.14	0.0040	P	9.1
3	☐	250.000	249.581	781103.56	0.1005	P	4.2
4	☐	625.000	612.530	1985330.58	0.2465	A	3.0
5	☐	1250.000	1250.509	3985358.13	0.5033	A	1.4
6	☐	2500.000	2502.748	7829163.15	1.0073	A	1.2
7	☐	5000.000	5000.079	15544398.24	2.0123	A	1.3
8	☐			7565.44	0.0010	P	14.4

$$y = 4.0246\text{E-}004 * x + 8.8547\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02712$$

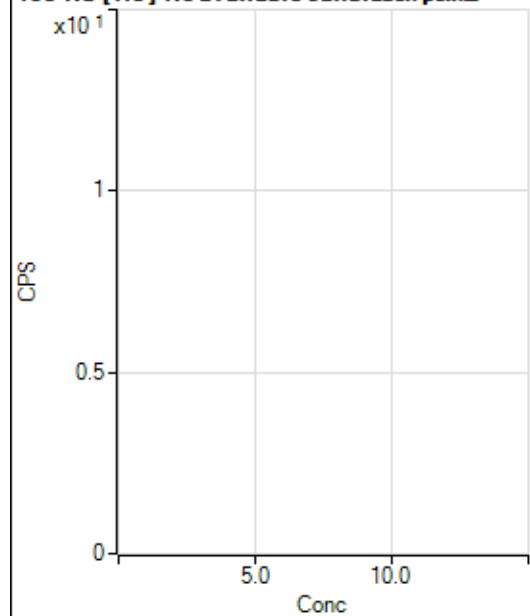
$$BEC = 0.022$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	17.3
2	☐			15.56		P	49.5
3	☐			116.67		P	24.4
4	☐			261.12		P	15.2
5	☐			517.79		P	3.5
6	☐			944.49		P	5.3
7	☐			1860.15		P	7.0
8	☐			140.00		P	14.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			10.00		P	88.2
3	☐			24.45		P	43.8
4	☐			41.11		P	16.9
5	☐			112.22		P	20.9
6	☐			168.89		P	8.0
7	☐			334.45		P	11.9
8	☐			74.45		P	35.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			8.89		P	78.1
3	☐			35.56		P	32.9
4	☐			72.22		P	18.7
5	☐			133.34		P	10.9
6	☐			274.45		P	10.3
7	☐			524.46		P	1.3
8	☐			274.45		P	15.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			6.66		P	86.6
3	☐			23.33		P	75.6
4	☐			50.00		P	35.3
5	☐			101.11		P	5.0
6	☐			213.33		P	11.8
7	☐			380.01		P	9.8
8	☐			174.45		P	4.4

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

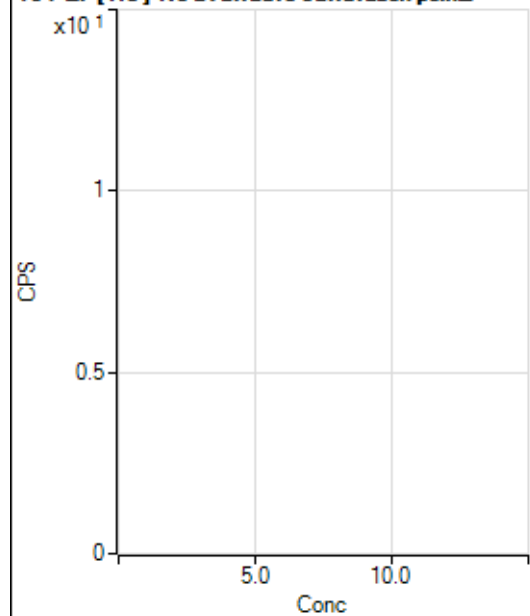
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	6.9
2	☐			50.00		P	23.1
3	☐			45.56		P	16.9
4	☐			67.78		P	5.7
5	☐			67.78		P	12.4
6	☐			107.78		P	20.6
7	☐			166.67		P	7.2
8	☐			235.56		P	5.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			245.56		P	11.5
2	☐			231.12		P	8.8
3	☐			228.89		P	27.9
4	☐			220.00		P	27.6
5	☐			240.01		P	15.5
6	☐			263.34		P	12.5
7	☐			287.79		P	7.1
8	☐			352.23		P	19.0

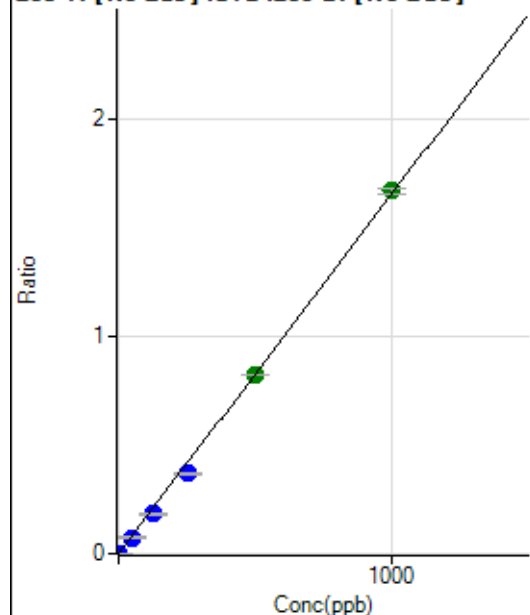
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.22		P	41.0
2	☐			54.44		P	21.5
3	☐			68.89		P	7.4
4	☐			76.66		P	7.5
5	☐			96.67		P	11.9
6	☐			123.33		P	14.3
7	☐			197.78		P	15.3
8	☐			304.45		P	2.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26.67		P	21.7
2	☐			31.11		P	44.6
3	☐			38.89		P	19.8
4	☐			35.56		P	35.5
5	☐			54.45		P	12.7
6	☐			72.22		P	26.6
7	☐			125.56		P	17.3
8	☐			183.34		P	7.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	115.56	0.0000	P	24.7
2	☐	1.000	0.874	5905.79	0.0015	P	6.3
3	☐	50.000	45.400	317850.42	0.0752	P	4.2
4	☐	125.000	109.888	797554.80	0.1819	P	1.8
5	☐	250.000	223.219	1589426.80	0.3695	P	2.5
6	☐	500.000	498.118	3480356.16	0.8244	A	0.2
7	☐	1000.000	1009.755	6894238.37	1.6712	A	1.6
8	☐			1645.68	0.0005	P	30.0

$$y = 0.0017 * x + 2.7092E-005$$

$$R = 0.9996$$

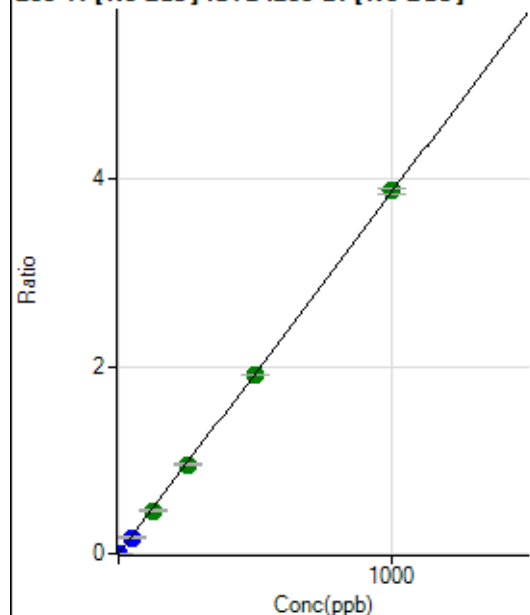
$$DL = 0.01212$$

$$BEC = 0.01637$$

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	266.67	0.0001	P	24.4
2	☐	1.000	0.886	13900.63	0.0035	P	11.9
3	☐	50.000	44.952	733852.87	0.1735	P	3.5
4	☐	125.000	118.730	2009000.04	0.4582	A	2.2
5	☐	250.000	245.421	4074748.62	0.9471	A	1.9
6	☐	500.000	494.350	8053243.77	1.9076	A	0.5
7	☐	1000.000	1005.006	15998708.93	3.8781	A	1.8
8	☐			3787.27	0.0011	P	25.9

$$y = 0.0039 * x + 6.2469E-005$$

$$R = 1.0000$$

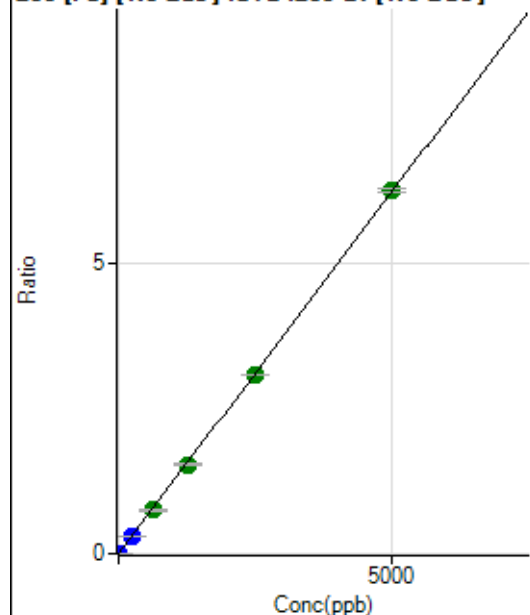
$$DL = 0.01183$$

$$BEC = 0.01619$$

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	360.01	0.0001	P	29.6
2	☐	1.000	0.906	4853.14	0.0012	P	11.6
3	☐	250.000	232.359	1225469.64	0.2898	P	4.0
4	☐	625.000	604.063	3302627.42	0.7532	A	2.1
5	☐	1250.000	1232.560	6611500.74	1.5368	A	2.5
6	☐	2500.000	2473.482	13019417.17	3.0840	A	0.3
7	☐	5000.000	5021.118	25826929.34	6.2604	A	1.2
8	☐			13370.09	0.0037	P	9.7

$$y = 0.0012 * x + 8.4385E-005$$

$$R = 1.0000$$

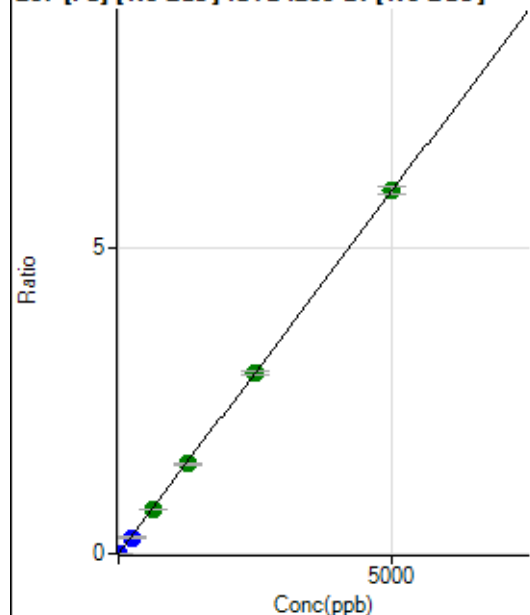
$$DL = 0.06011$$

$$BEC = 0.06768$$

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	324.45	0.0001	P	2.4
2	☐	1.000	0.903	4578.60	0.0011	P	9.2
3	☐	250.000	223.868	1121935.44	0.2653	P	3.9
4	☐	625.000	610.657	3172385.09	0.7236	A	2.3
5	☐	1250.000	1241.458	6328189.70	1.4709	A	2.2
6	☐	2500.000	2493.362	12470838.42	2.9541	A	1.4
7	☐	5000.000	5008.554	24477555.47	5.9340	A	2.0
8	☐			12245.71	0.0034	P	13.4

$$y = 0.0012 * x + 7.5937E-005$$

$$R = 1.0000$$

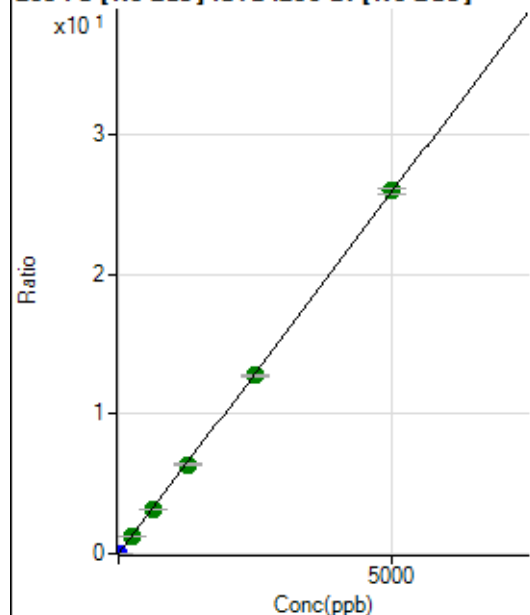
$$DL = 0.004574$$

$$BEC = 0.0641$$

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	1448.93	0.0003	P	6.7
2	☐	1.000	0.899	19947.01	0.0050	P	9.6
3	☐	250.000	239.224	5236841.15	1.2383	A	3.8
4	☐	625.000	607.548	13787931.01	3.1445	A	1.8
5	☐	1250.000	1232.780	27449746.61	6.3801	A	2.0
6	☐	2500.000	2472.729	54023452.11	12.7969	A	1.1
7	☐	5000.000	5020.661	107181233.4	25.9827	A	1.9
8	☐			53874.73	0.0151	P	12.1

$$y = 0.0052 * x + 3.3920E-004$$

$$R = 1.0000$$

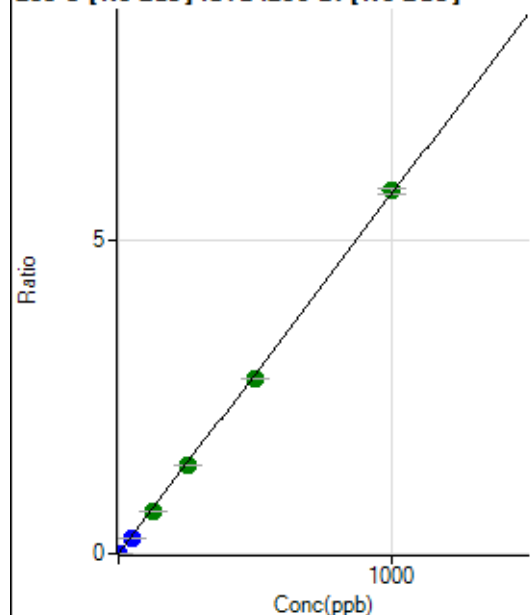
$$DL = 0.01311$$

$$BEC = 0.06555$$

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	38.89	0.0000	P	12.9
2	☐	1.000	0.852	19552.33	0.0049	P	12.5
3	☐	50.000	43.764	1062914.56	0.2513	P	3.9
4	☐	125.000	119.357	3005807.98	0.6855	A	1.4
5	☐	250.000	245.953	6078151.85	1.4125	A	1.1
6	☐	500.000	486.812	11802510.38	2.7957	A	0.6
7	☐	1000.000	1008.623	23896149.92	5.7924	A	1.8
8	☐			3841.78	0.0011	P	37.6

$$y = 0.0057 * x + 9.1000E-006$$

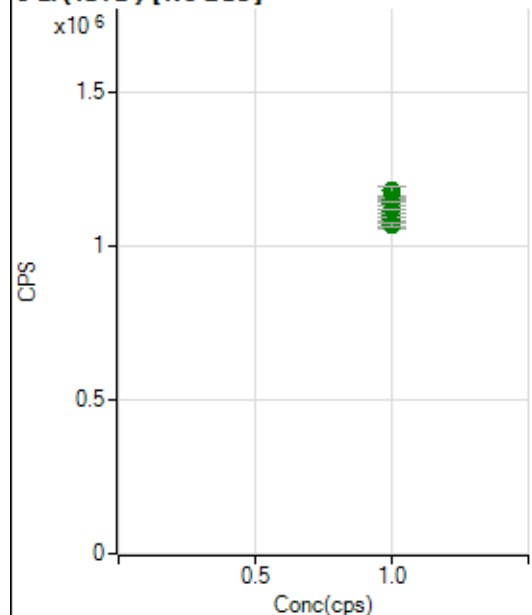
$$R = 0.9999$$

$$DL = 0.0006132$$

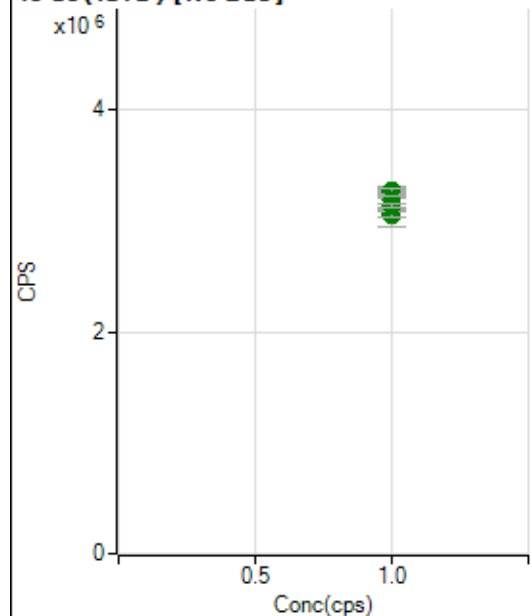
$$BEC = 0.001585$$

Weight: <None>

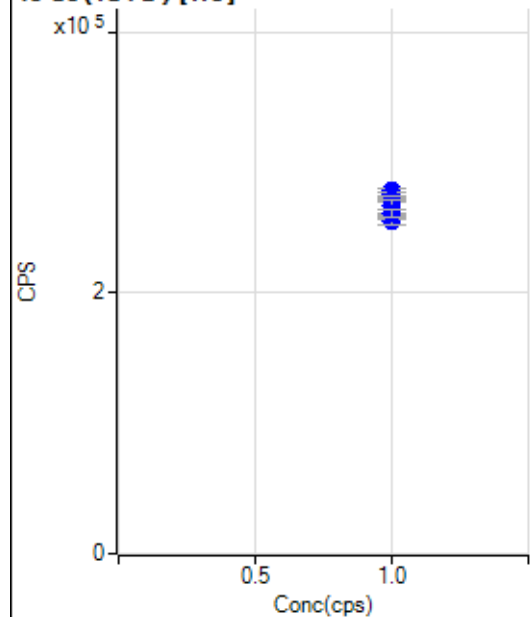
Min Conc: 0

6 Li (ISTD) [No Gas]

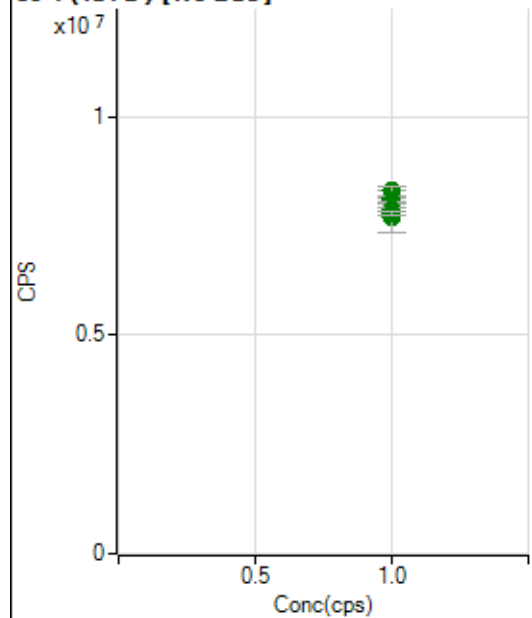
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1147453.37		A	0.3
2	☐	1.000		1099034.64		A	8.1
3	☐	1.000		1178080.92		A	2.4
4	☐	1.000		1148635.37		A	1.1
5	☐	1.000		1135323.07		A	1.4
6	☐	1.000		1112057.57		A	1.0
7	☐	1.000		1085189.13		A	1.3
8	☐	1.000		1067526.83		A	1.1

45 Sc (ISTD) [No Gas]

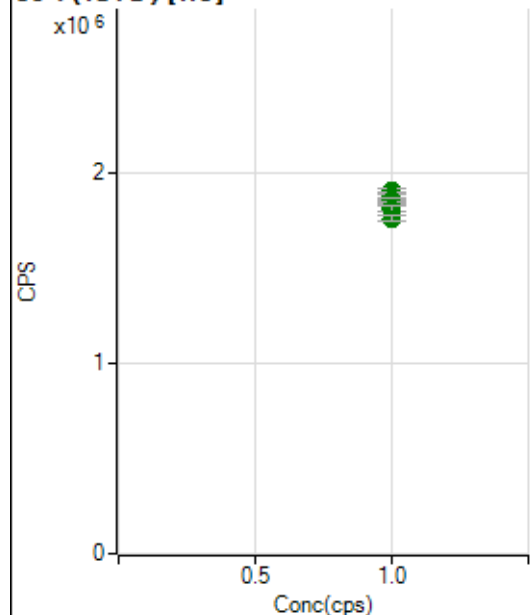
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3269218.53		A	0.6
2	☐	1.000		3070233.81		A	8.3
3	☐	1.000		3264042.73		A	2.9
4	☐	1.000		3267247.24		A	2.0
5	☐	1.000		3185031.79		A	2.1
6	☐	1.000		3125626.45		A	1.5
7	☐	1.000		3056813.05		A	1.7
8	☐	1.000		3137622.49		A	1.4

45 Sc (ISTD) [He]

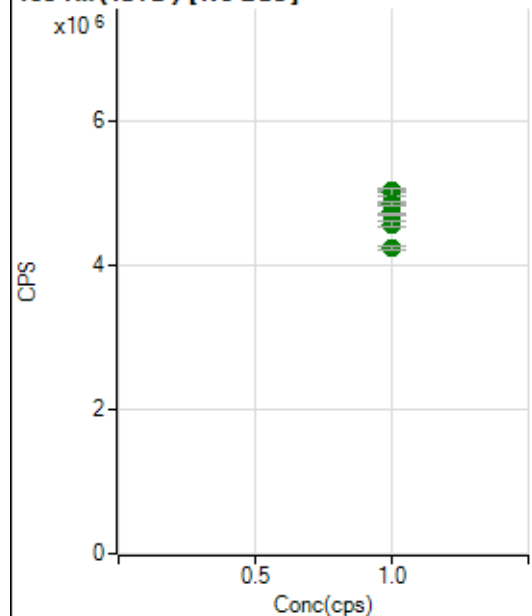
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		278388.82		P	1.0
2	☐	1.000		275054.42		P	1.7
3	☐	1.000		275612.71		P	1.7
4	☐	1.000		272194.56		P	1.8
5	☐	1.000		266631.69		P	3.6
6	☐	1.000		254690.78		P	1.3
7	☐	1.000		261286.38		P	1.7
8	☐	1.000		261502.65		P	1.9

89 Y (ISTD) [No Gas]

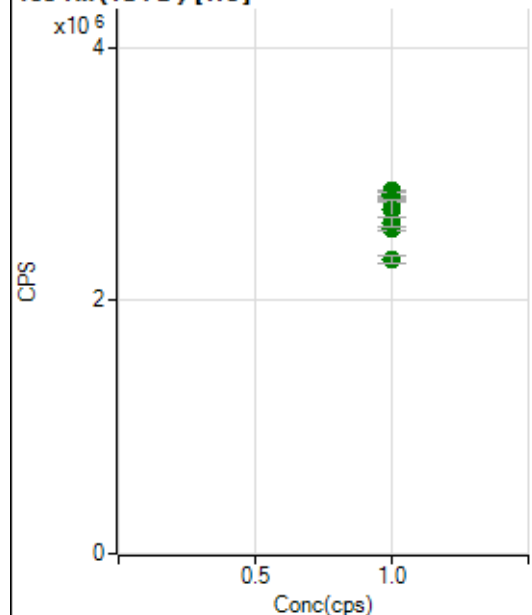
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8155412.24		A	0.6
2	☐	1.000		7693180.02		A	8.8
3	☐	1.000		8160063.84		A	3.4
4	☐	1.000		8303695.29		A	2.4
5	☐	1.000		8098915.02		A	1.8
6	☐	1.000		8038108.56		A	0.9
7	☐	1.000		7872224.81		A	1.4
8	☐	1.000		7792426.55		A	0.7

89 Y(ISTD) [He]

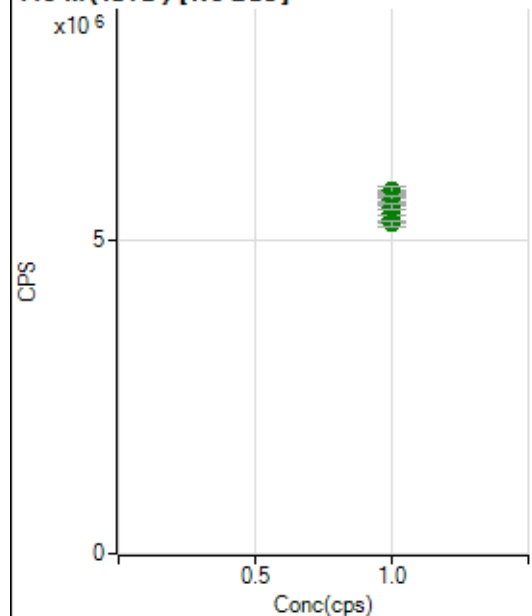
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1906334.12		A	0.9
2	☐	1.000		1878456.36		A	2.0
3	☐	1.000		1862397.94		A	2.6
4	☐	1.000		1854620.56		A	1.6
5	☐	1.000		1821885.62		A	3.1
6	☐	1.000		1763057.49		A	1.5
7	☐	1.000		1804103.97		A	2.3
8	☐	1.000		1761353.69		A	2.1

103 Rh(ISTD) [No Gas]

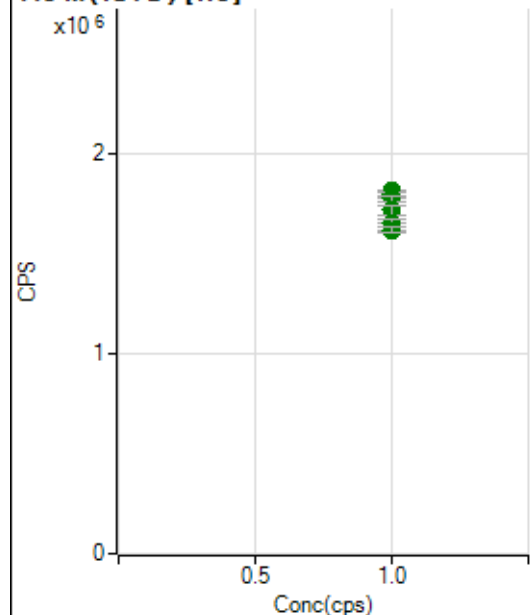
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5035175.10		A	0.6
2	☐	1.000		4748630.14		A	8.9
3	☐	1.000		4957667.18		A	4.0
4	☐	1.000		5021203.50		A	2.3
5	☐	1.000		4861608.26		A	1.4
6	☐	1.000		4706533.92		A	0.3
7	☐	1.000		4573905.38		A	1.7
8	☐	1.000		4245001.01		A	0.8

103 Rh (ISTD) [He]

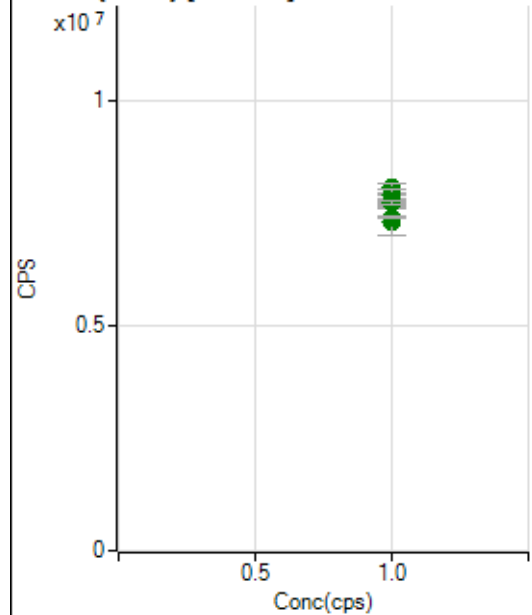
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2864952.22		A	0.1
2	☐	1.000		2839476.94		A	1.4
3	☐	1.000		2828838.85		A	1.3
4	☐	1.000		2787075.86		A	0.8
5	☐	1.000		2724229.68		A	4.7
6	☐	1.000		2568482.64		A	1.4
7	☐	1.000		2618269.56		A	2.7
8	☐	1.000		2319823.25		A	2.9

115 In (ISTD) [No Gas]

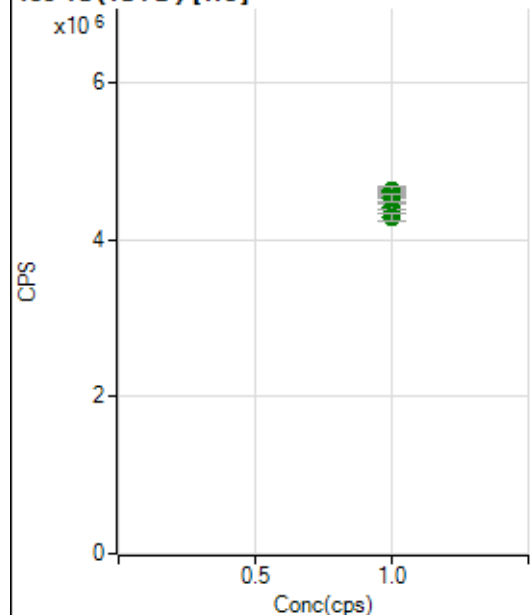
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5768558.26		A	0.4
2	☐	1.000		5427534.81		A	8.6
3	☐	1.000		5633421.45		A	3.3
4	☐	1.000		5771056.59		A	2.0
5	☐	1.000		5642558.55		A	2.1
6	☐	1.000		5515679.76		A	1.7
7	☐	1.000		5324883.44		A	2.5
8	☐	1.000		5253146.75		A	2.0

115 In (ISTD) [He]

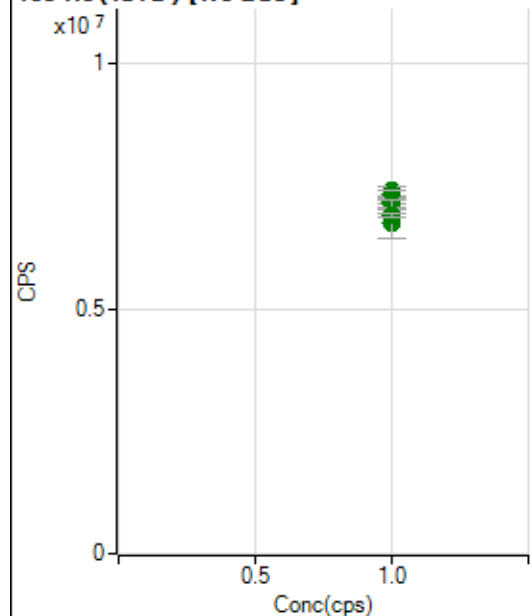
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1812214.59		A	0.8
2	☐	1.000		1792932.02		A	1.9
3	☐	1.000		1797505.16		A	1.0
4	☐	1.000		1772333.36		A	1.8
5	☐	1.000		1716666.24		A	3.0
6	☐	1.000		1636756.17		A	2.4
7	☐	1.000		1647596.99		A	2.3
8	☐	1.000		1617090.16		A	1.9

159 Tb (ISTD) [No Gas]

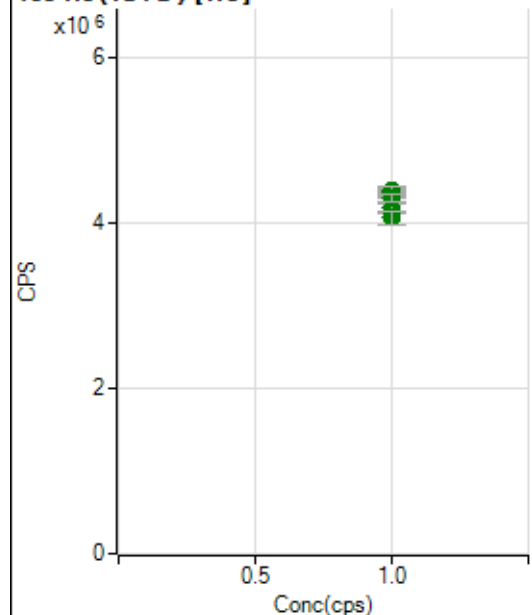
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7778253.08		A	0.1
2	☐	1.000		7311995.31		A	8.1
3	☐	1.000		7782246.62		A	3.1
4	☐	1.000		8057229.26		A	2.5
5	☐	1.000		7920345.09		A	2.4
6	☐	1.000		7773383.70		A	1.1
7	☐	1.000		7725108.01		A	1.2
8	☐	1.000		7398838.85		A	0.8

159 Tb (ISTD) [He]

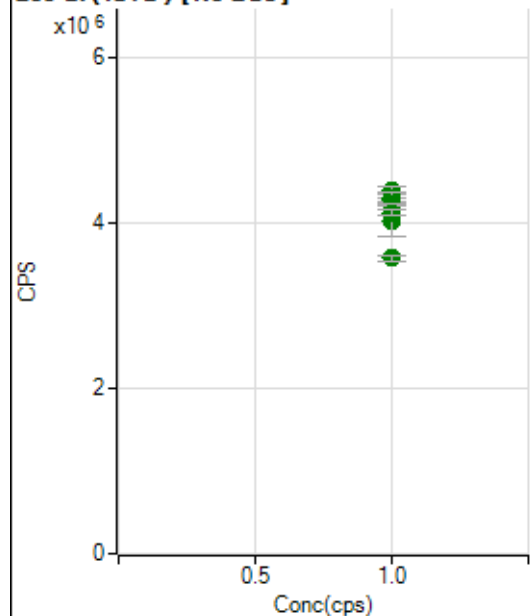
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4608501.70		A	0.3
2	☐	1.000		4583828.61		A	0.5
3	☐	1.000		4590719.72		A	1.8
4	☐	1.000		4626746.60		A	1.1
5	☐	1.000		4610110.17		A	3.0
6	☐	1.000		4422621.81		A	1.7
7	☐	1.000		4542788.40		A	2.0
8	☐	1.000		4296146.26		A	2.3

165 Ho (ISTD) [No Gas]

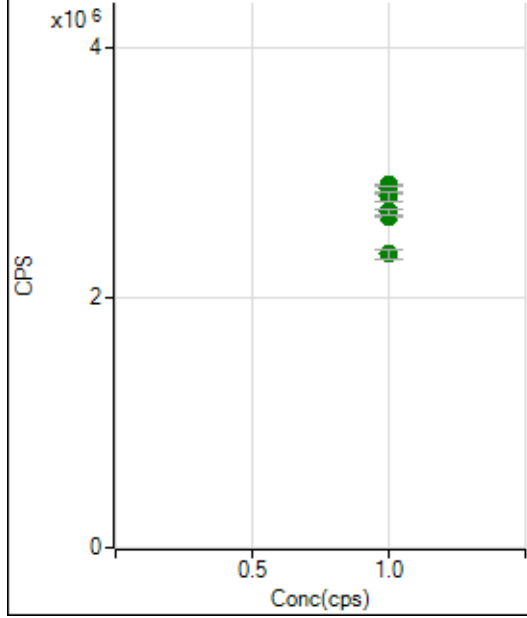
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7175287.60		A	0.7
2	☐	1.000		6744298.72		A	9.5
3	☐	1.000		7127674.62		A	3.5
4	☐	1.000		7398922.04		A	2.8
5	☐	1.000		7317084.61		A	2.2
6	☐	1.000		7231256.70		A	0.9
7	☐	1.000		7137256.98		A	1.9
8	☐	1.000		6902610.45		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4359358.55		A	0.8
2	☐	1.000		4331075.42		A	0.9
3	☐	1.000		4350665.84		A	1.5
4	☐	1.000		4382424.76		A	1.5
5	☐	1.000		4366284.73		A	3.3
6	☐	1.000		4170596.71		A	2.7
7	☐	1.000		4291017.68		A	2.1
8	☐	1.000		4053473.62		A	3.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4272967.13		A	1.2
2	☐	1.000		4020559.25		A	9.2
3	☐	1.000		4231960.53		A	2.8
4	☐	1.000		4385962.43		A	2.3
5	☐	1.000		4304053.34		A	2.9
6	☐	1.000		4221589.24		A	0.4
7	☐	1.000		4126062.16		A	2.0
8	☐	1.000		3574773.07		A	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2902073.78		A	0.9
2	☐	1.000		2836411.88		A	0.8
3	☐	1.000		2868753.78		A	2.1
4	☐	1.000		2869503.00		A	1.5
5	☐	1.000		2812421.80		A	2.6
6	☐	1.000		2652936.47		A	0.5
7	☐	1.000		2684880.62		A	2.2
8	☐	1.000		2347317.12		A	3.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7051624-PM3.b

Acq. Date-Time 2024-05-16 13:47:43

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		5362	53619.41			0.896	5.000
24		48853	488533.03			1.065	5.000
25		6370	63704.15			1.147	5.000
26		7325	73246.18			1.176	5.000
59		48085	480851.03			0.991	5.000
113		6953	69525.18			0.642	5.000
115		88323	883234.67			0.523	5.000
206		20076	200757.87			0.824	5.000
207		18062	180618.41			0.673	5.000
208		43722	437215.96			0.759	5.000
220		0	1.80			50.461	

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

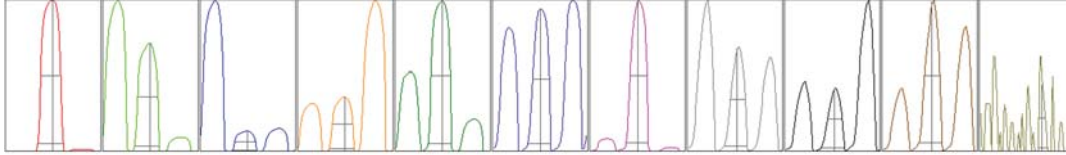
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5286	5346	5395	5376	5406
24	48093	48631	48971	49102	49470
25	6265	6340	6394	6391	6462
26	7199	7294	7334	7365	7431
59	47443	47990	47970	48275	48747
113	6875	6961	6964	6991	6971
115	88735	88775	88281	88180	87646
206	19813	20010	20169	20199	20187
207	17873	18060	18053	18204	18119
208	43232	43565	43923	43809	44079

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8847.54	9.00	8.90 - 9.10	
24	79817.76	24.00	23.90 - 24.10	
25	10352.94	25.00	24.90 - 25.10	
26	11726.81	26.00	25.90 - 26.10	
59	82304.27	59.00	58.90 - 59.10	
113	13528.75	113.05	112.90 - 113.10	
115	173122.81	115.05	114.90 - 115.10	
206	43319.07	206.10	205.90 - 206.10	
207	39660.12	207.10	206.90 - 207.10	
208	94586.98	208.10	207.90 - 208.10	
220	0.35	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.798	0.900	
24	0.64	0.782	0.900	
25	0.65	0.752	0.900	
26	0.65	0.786	0.900	
59	0.60	0.742	0.900	
113	0.52	0.705	0.900	
115	0.52	0.684	0.900	
206	0.47	0.699	0.900	
207	0.46	0.716	0.900	
208	0.48	0.699	0.900	
220	0.22	0.292		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.2 V	Deflect	15.0 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.7 mV	Analog HV	2303 V	Pulse HV	1347 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15397	153971.00			0.571	
89		21082	210816.69			1.036	
205		20093	200925.27			0.886	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15489	15418	15453	15360	15265
89	21326	21226	21092	21006	20758
205	20355	20112	20047	20092	19857

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.7 mV	Analog HV	2303 V	Pulse HV	1347 V
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