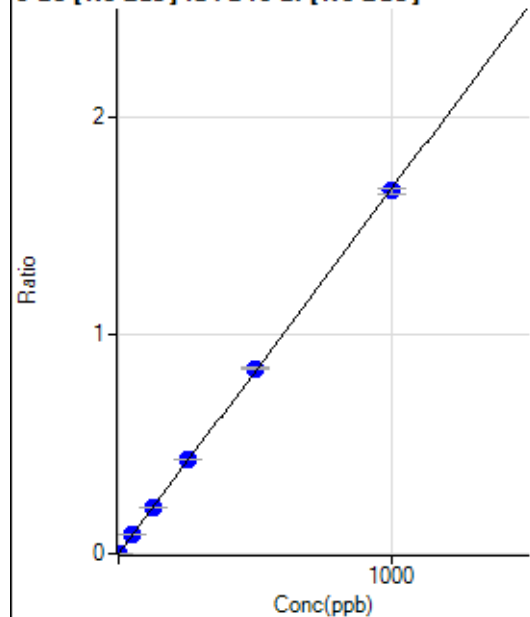


Calibration for 033SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7110425-MS1.b\
 Analysis File: P7110425-MS1.batch.bin
 DA Date-Time: 2025-11-04 18:13:01
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	012CALB.d	S00	2025-11-04 16:20:27
2	014CALS.d	S02	2025-11-04 16:27:06
3	016CALS.d	S03	2025-11-04 16:34:39
4	017CALS.d	S04	2025-11-04 16:37:53
5	018CALS.d	S05	2025-11-04 16:40:59
6	019CALS.d	S06	2025-11-04 16:43:55
7	020CALS.d	S07	2025-11-04 16:46:48
8	021CALS.d	S08	2025-11-04 16:49:32

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.56	0.0000	P	65.3
2	☐	1.000	1.061	705.58	0.0018	P	11.5
3	☐	50.000	51.063	34527.22	0.0853	P	2.9
4	☐	125.000	125.848	86445.99	0.2103	P	1.6
5	☐	250.000	257.323	173196.36	0.4299	P	1.2
6	☐	500.000	506.744	339263.64	0.8465	P	0.9
7	☐	1000.000	994.638	683408.21	1.6616	P	1.6
8	☐			241.12	0.0006	P	2.1

$$y = 0.0017 * x + 4.0206E-005$$

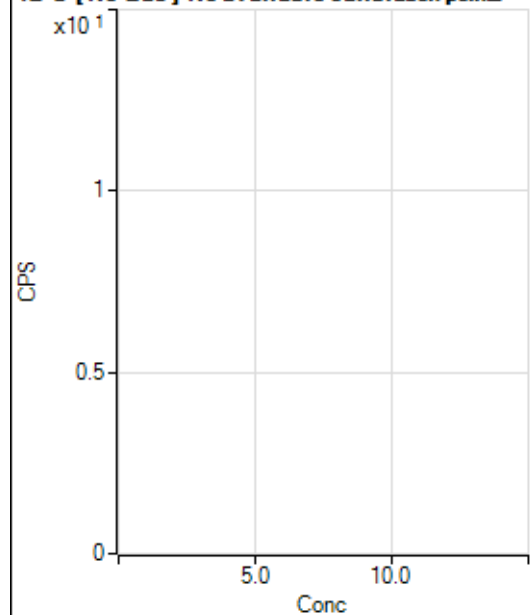
$$R = 0.9999$$

$$DL = 0.04713$$

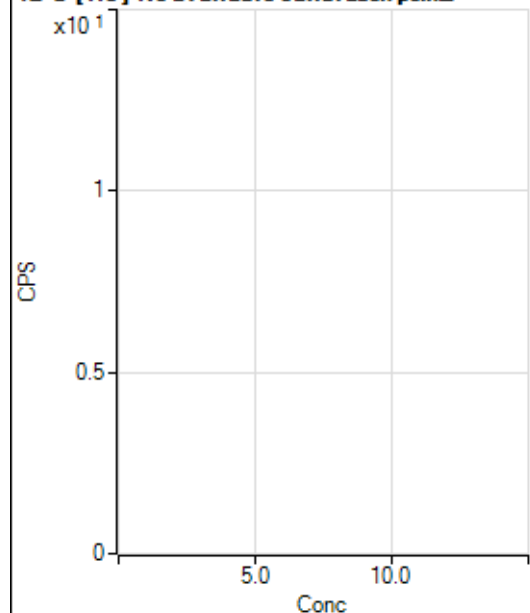
$$BEC = 0.02407$$

Weight: <None>

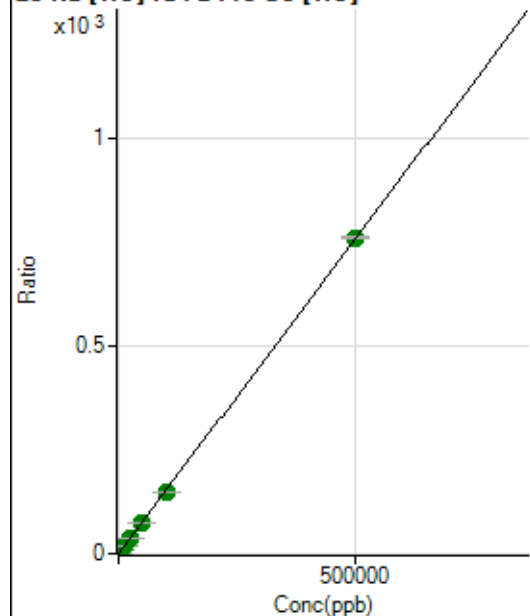
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj 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	16652.43	0.0837	P	1.3
2	☐	500.000	485.539	166996.07	0.8221	P	0.6
3	☐	5000.000	5027.332	1605289.35	7.7290	A	2.0
4	☐	12500.000	12170.569	3866060.39	18.5921	A	1.9
5	☐	25000.000	24858.521	7790301.35	37.8873	A	1.0
6	☐	50000.000	48736.007	15075019.36	74.1990	A	2.2
7	☐	100000.00	97783.063	30717746.49	148.7873	A	2.4
8	☐	500000.00	500584.83	159730512.0	761.3478	A	0.7

$$y = 0.0015 * x + 0.0837$$

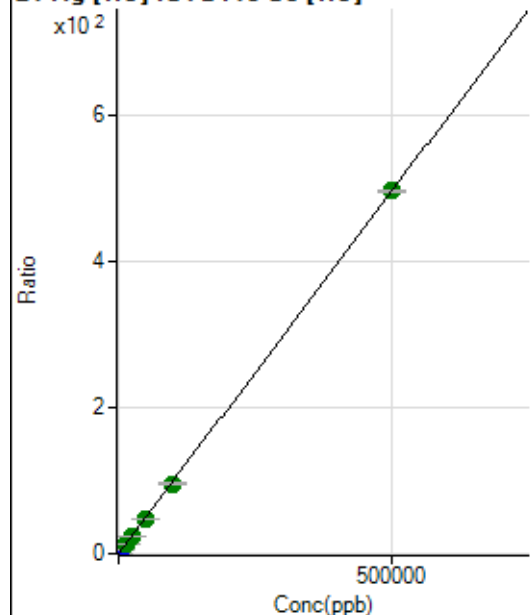
$$R = 1.0000$$

$$DL = 2.072$$

$$BEC = 55.06$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	182.23	0.0009	P	11.8
2	☐	500.000	489.982	98800.70	0.4863	P	1.5
3	☐	5000.000	4858.188	999921.90	4.8140	P	0.6
4	☐	12500.000	12068.048	2486458.96	11.9569	A	0.9
5	☐	25000.000	24845.616	5060660.17	24.6158	A	1.9
6	☐	50000.000	48502.006	9764382.50	48.0526	A	0.6
7	☐	100000.00	96658.170	19768967.21	95.7616	A	1.9
8	☐	500000.00	500838.11	104107964.0	496.1889	A	0.8

$$y = 9.9072\text{E-}004 * x + 9.1632\text{E-}004$$

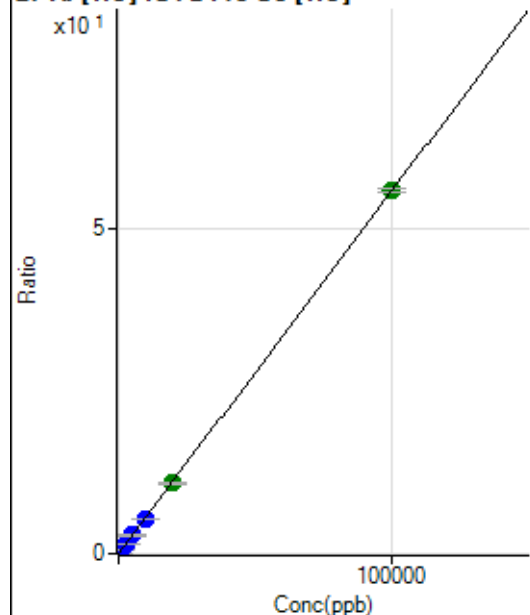
$$R = 1.0000$$

$$DL = 0.3272$$

$$BEC = 0.9249$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	405.56	0.0020	P	13.4
2	☐	20.000	21.190	2806.96	0.0138	P	2.4
3	☐	1000.000	976.788	113204.21	0.5450	P	0.8
4	☐	2500.000	2434.659	281851.26	1.3554	P	1.8
5	☐	5000.000	5054.842	578167.21	2.8119	P	0.8
6	☐	10000.000	9672.492	1092906.60	5.3788	P	0.6
7	☐	20000.000	19511.479	2239421.06	10.8481	A	2.3
8	☐	100000.00	100129.57	11678065.80	55.6622	A	1.0

$$y = 5.5588\text{E-}004 * x + 0.0020$$

$$R = 1.0000$$

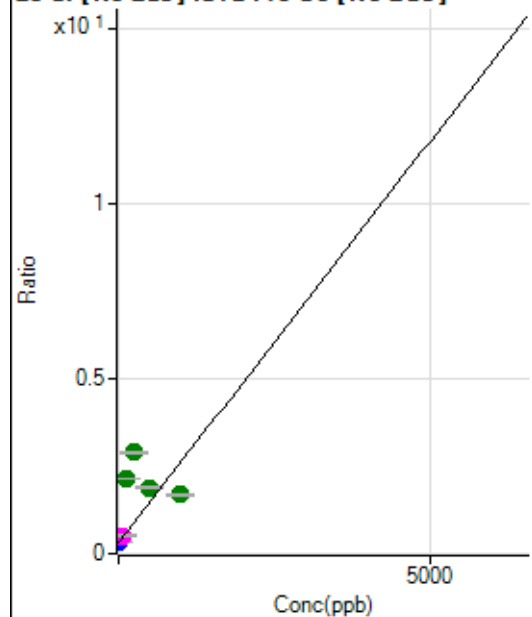
$$DL = 1.474$$

$$BEC = 3.67$$

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	630689.14	0.3122	P	1.4
2	☐	10.000	3.915	652173.33	0.3212	P	1.8
3	☐	50.000	80.493	1028033.54	0.4963	M	10.3
4	☐	125.000	801.379	4480760.70	2.1445	A	1.7
5	☐	250.000	1126.162	6000533.17	2.8871	A	1.2
6	☐	500.000	687.636	3905062.69	1.8844	A	3.6
7	☐	1000.000	601.131	3552249.15	1.6867	A	3.1
8	☐			682866.32	0.3259	P	2.2

$$y = 0.0023 * x + 0.3122$$

$$R = 0.4290$$

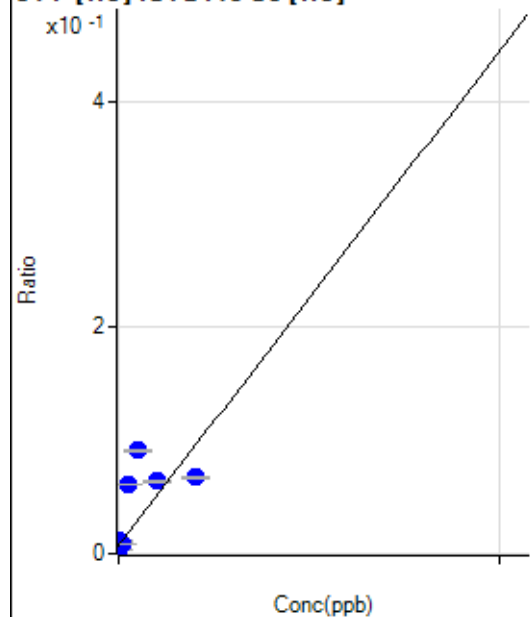
$$DL = 5.767$$

$$BEC = 136.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-917.451	620.02	0.0031	P	8.7
2	☐	0.000	917.451	2265.75	0.0112	P	3.2
3	☐	1000.000	409.410	1854.58	0.0089	P	0.6
4	☐	2500.000	12361.921	12739.83	0.0613	P	2.3
5	☐	5000.000	19195.155	18748.31	0.0912	P	1.0
6	☐	10000.000	13018.919	13034.56	0.0641	P	2.9
7	☐	20000.000	13738.541	13891.94	0.0673	P	1.6
8	☐			652.24	0.0031	P	10.5

$$y = 4.3786E-006 * x + 0.0071$$

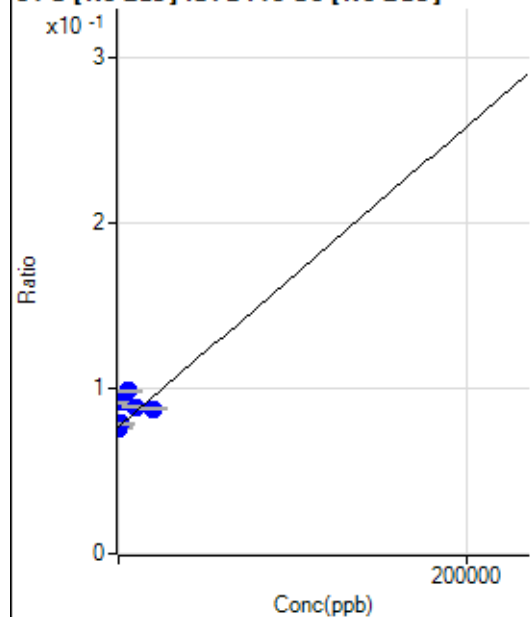
$$R = 0.5929$$

$$DL = 213.9$$

$$BEC = 1630$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1150.449	152996.73	0.0757	P	1.3
2	☐	0.000	1150.449	158044.18	0.0778	P	1.5
3	☐	1000.000	2220.571	163141.27	0.0788	P	1.4
4	☐	2500.000	15987.561	190827.77	0.0913	P	2.3
5	☐	5000.000	23658.278	204347.36	0.0983	P	0.6
6	☐	10000.000	13282.263	184179.76	0.0889	P	1.8
7	☐	20000.000	11947.325	184619.89	0.0877	P	1.0
8	☐			158108.34	0.0755	P	2.8

$$y = 9.1028\text{E-}007 * x + 0.0768$$

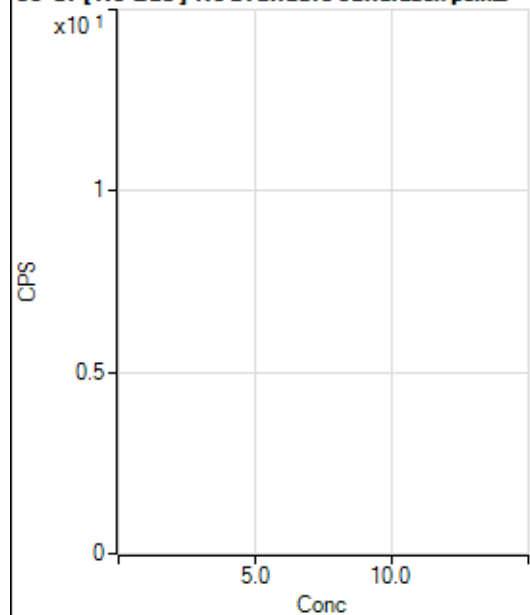
$$R = 0.4082$$

$$DL = 3519$$

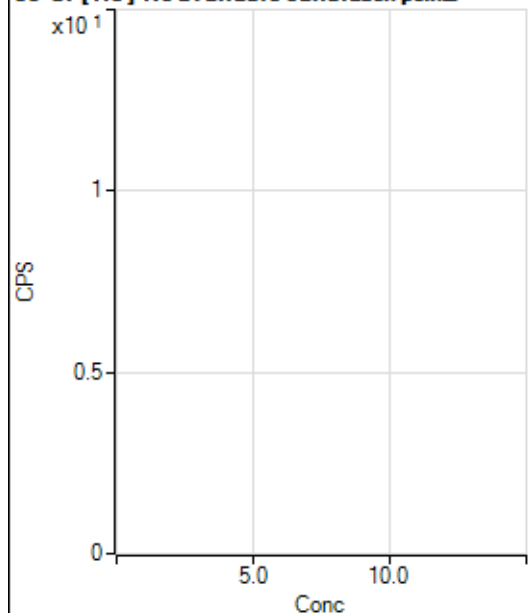
$$BEC = 8.435\text{E}+04$$

Weight: <None>

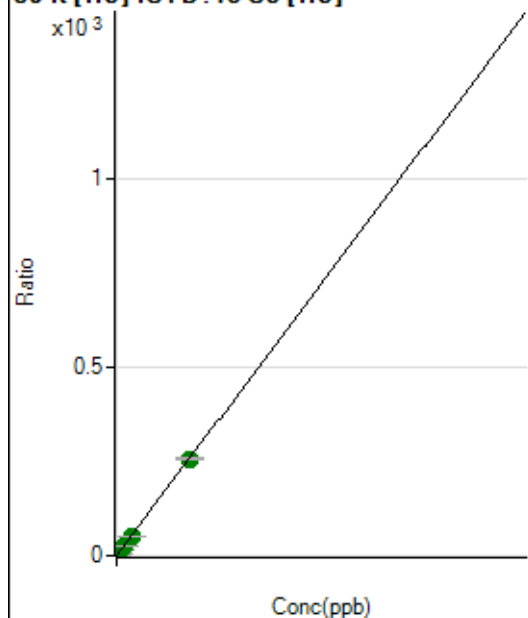
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j 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	43129.86	0.2169	P	2.3
2	☐	500.000	517.349	151560.41	0.7461	P	0.4
3	☐	2500.000	2586.745	594654.78	2.8630	P	1.3
4	☐	6250.000	6132.550	1349646.40	6.4903	A	1.0
5	☐	12500.000	12678.096	2711520.20	13.1861	A	0.7
6	☐	25000.000	24562.452	5149483.33	25.3434	A	0.6
7	☐	50000.000	48584.812	10305220.19	49.9174	A	1.4
8	☐	250000.00	250319.92	53766423.09	256.2849	A	1.5

$$y = 0.0010 * x + 0.2169$$

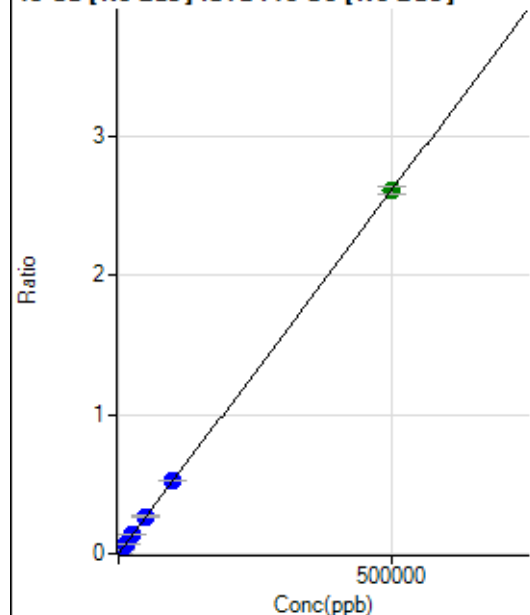
$$R = 1.0000$$

$$DL = 14.42$$

$$BEC = 212$$

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	171.12	0.0001	P	7.1
2	☐	500.000	534.272	5840.07	0.0029	P	0.7
3	☐	5000.000	5251.433	56963.25	0.0275	P	2.5
4	☐	12500.000	13069.483	142841.27	0.0684	P	1.5
5	☐	25000.000	26633.307	289374.91	0.1392	P	0.5
6	☐	50000.000	51345.538	556068.91	0.2683	P	1.6
7	☐	100000.00	100924.95	1110573.02	0.5273	P	1.4
8	☐	500000.00	499582.00	5469470.13	2.6100	A	2.3

$$y = 5.2242\text{E-}006 * x + 8.4735\text{E-}005$$

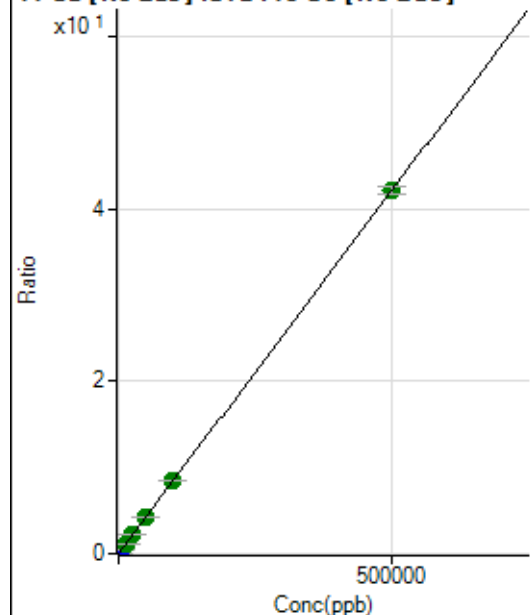
$$R = 1.0000$$

$$DL = 3.478$$

$$BEC = 16.22$$

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	8570.33	0.0042	P	2.1
2	☐	500.000	534.936	100002.76	0.0492	P	0.9
3	☐	5000.000	5255.463	924057.68	0.4464	P	1.5
4	☐	12500.000	12662.141	2234767.99	1.0695	A	1.2
5	☐	25000.000	25803.672	4520690.80	2.1750	A	0.3
6	☐	50000.000	49743.167	8681947.16	4.1890	A	0.6
7	☐	100000.00	99702.983	17675569.04	8.3920	A	0.5
8	☐	500000.00	500038.26	88164766.46	42.0710	A	2.1

$$y = 8.4127\text{E-}005 * x + 0.0042$$

$$R = 1.0000$$

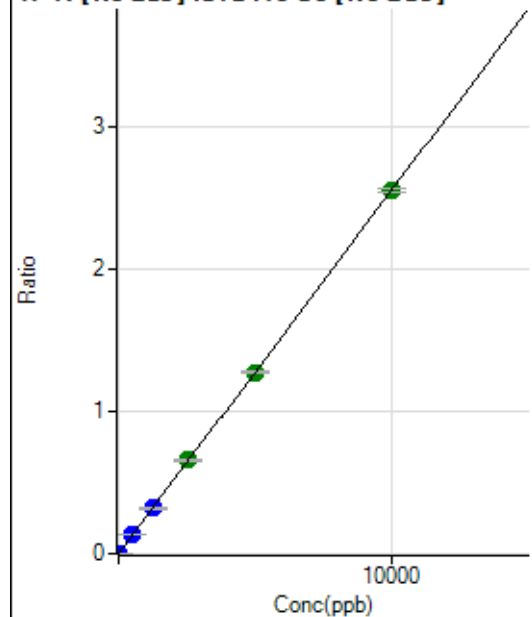
$$DL = 3.157$$

$$BEC = 50.43$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	27.9
2	☐	5.000	5.244	2783.61	0.0014	P	2.2
3	☐	500.000	515.176	272102.17	0.1314	P	2.1
4	☐	1250.000	1253.882	668355.00	0.3199	P	1.8
5	☐	2500.000	2582.467	1369259.01	0.6588	A	1.7
6	☐	5000.000	4980.873	2633221.94	1.2706	A	1.2
7	☐	10000.000	9987.703	5365870.30	2.5478	A	0.9
8	☐			1038.93	0.0005	P	1.3

$$y = 2.5509\text{E-}004 * x + 3.3014\text{E-}005$$

$$R = 1.0000$$

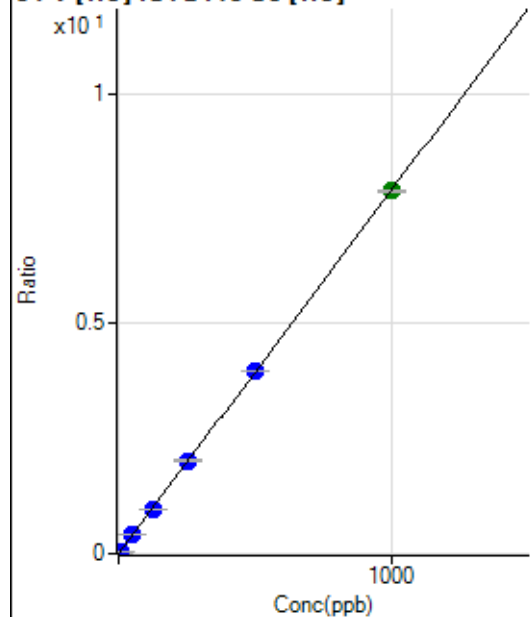
$$DL = 0.1084$$

$$BEC = 0.1294$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0001	P	62.9
2	☐	5.000	5.113	8212.30	0.0404	P	2.3
3	☐	50.000	50.998	83651.20	0.4027	P	0.5
4	☐	125.000	123.386	202614.04	0.9743	P	0.7
5	☐	250.000	255.364	414578.83	2.0164	P	1.1
6	☐	500.000	501.567	804719.72	3.9604	P	0.5
7	☐	1000.000	998.027	1626976.69	7.8805	A	0.6
8	☐			3005.89	0.0143	P	0.9

$$y = 0.0079 * x + 5.6034\text{E-}005$$

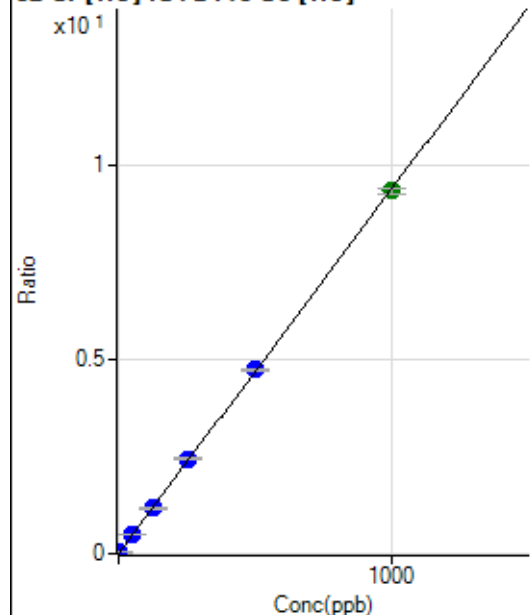
$$R = 1.0000$$

$$DL = 0.01339$$

$$BEC = 0.007097$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1037.82	0.0052	P	2.9
2	☐	2.000	2.113	5092.01	0.0251	P	0.8
3	☐	50.000	51.173	100942.85	0.4860	P	1.6
4	☐	125.000	123.873	243087.74	1.1690	P	1.3
5	☐	250.000	259.902	503102.31	2.4470	P	1.2
6	☐	500.000	504.078	963301.99	4.7410	P	0.9
7	☐	1000.000	995.568	1931974.14	9.3585	A	1.8
8	☐			35873.78	0.1710	P	0.5

$$y = 0.0094 * x + 0.0052$$

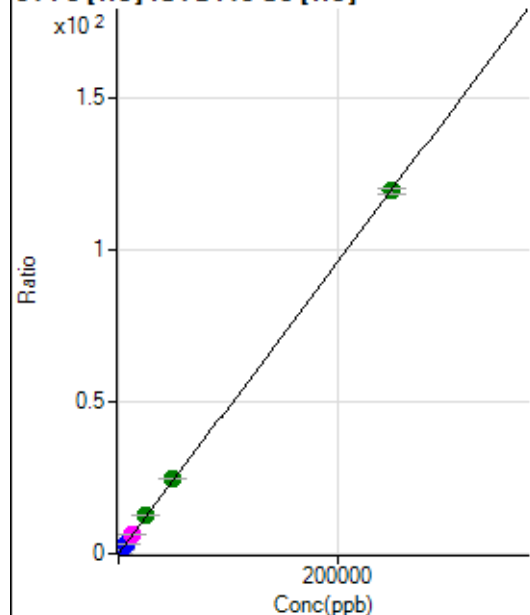
$$R = 0.9999$$

$$DL = 0.04784$$

$$BEC = 0.5555$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1544.54	0.0078	P	5.1
2	☐	50.000	56.033	7032.81	0.0346	P	2.0
3	☐	2500.000	2744.155	274764.90	1.3229	P	0.8
4	☐	6250.000	6693.477	668651.39	3.2155	P	1.6
5	☐	12500.000	13652.309	1346888.12	6.5504	M	2.7
6	☐	25000.000	26573.757	2589252.57	12.7428	A	0.3
7	☐	50000.000	51360.752	5083190.62	24.6216	A	0.8
8	☐	250000.00	249499.32	25085481.01	119.5764	A	1.9

$$y = 4.7923E-004 * x + 0.0078$$

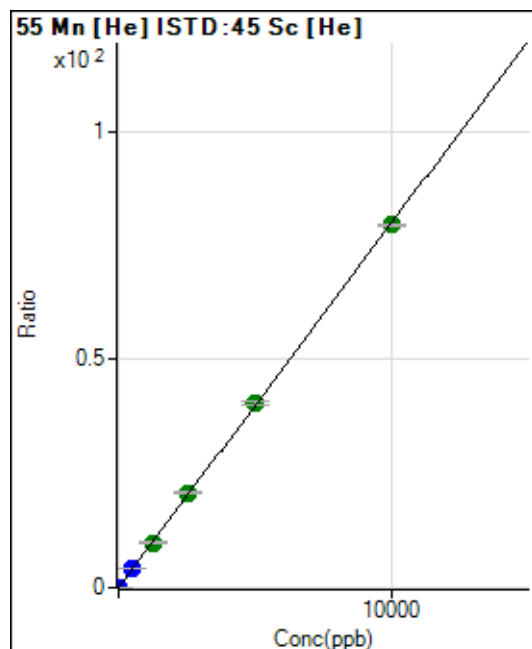
$$R = 1.0000$$

$$DL = 2.47$$

$$BEC = 16.21$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	504.46	0.0025	P	7.1
2	☐	1.000	1.085	2275.75	0.0112	P	3.1
3	☐	500.000	513.402	852124.31	4.1025	P	0.5
4	☐	1250.000	1235.784	2052658.36	9.8714	A	2.5
5	☐	2500.000	2590.376	4254405.35	20.6890	A	1.6
6	☐	5000.000	5061.307	8214242.17	40.4217	A	1.7
7	☐	10000.000	9947.860	16401704.06	79.4452	A	0.8
8	☐			15753.90	0.0751	P	0.4

$$y = 0.0080 * x + 0.0025$$

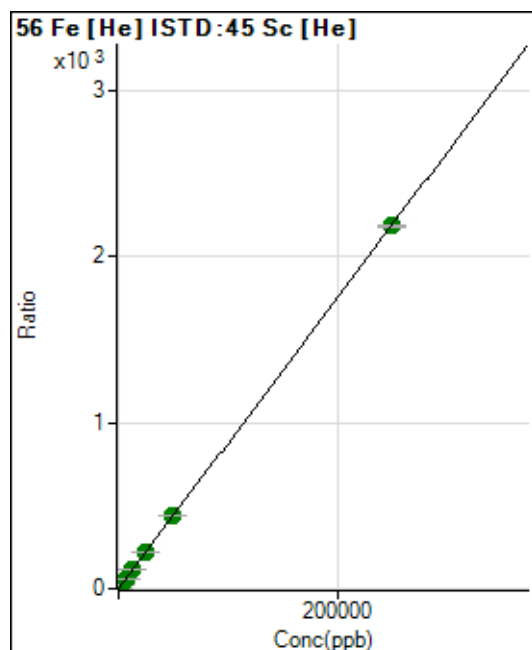
$$R = 0.9999$$

$$DL = 0.06797$$

$$BEC = 0.3175$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13179.21	0.0663	P	1.3
2	☐	50.000	53.386	108189.29	0.5326	P	0.5
3	☐	2500.000	2560.560	4659486.25	22.4337	A	1.6
4	☐	6250.000	6313.256	11480902.88	55.2148	A	3.3
5	☐	12500.000	13228.349	23774911.87	115.6207	A	1.0
6	☐	25000.000	25493.557	45260343.22	222.7617	A	1.6
7	☐	50000.000	50245.058	90626650.87	438.9749	A	0.8
8	☐	250000.00	249863.02	457931682.0	2,182.709	A	0.8

$$y = 0.0087 * x + 0.0663$$

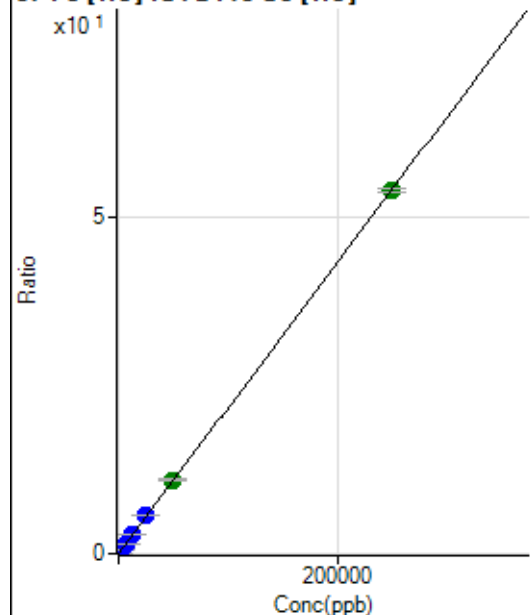
$$R = 1.0000$$

$$DL = 0.2911$$

$$BEC = 7.586$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	892.26	0.0045	P	10.4
2	☐	50.000	59.267	3511.56	0.0173	P	3.8
3	☐	2500.000	2709.481	122476.08	0.5897	P	0.8
4	☐	6250.000	6671.113	300538.02	1.4453	P	1.3
5	☐	12500.000	13792.753	613385.05	2.9833	P	1.1
6	☐	25000.000	26893.987	1181104.10	5.8129	P	0.7
7	☐	50000.000	50631.358	2258396.62	10.9395	A	1.4
8	☐	250000.00	249607.06	11310971.64	53.9129	A	1.0

$$y = 2.1597\text{E-}004 * x + 0.0045$$

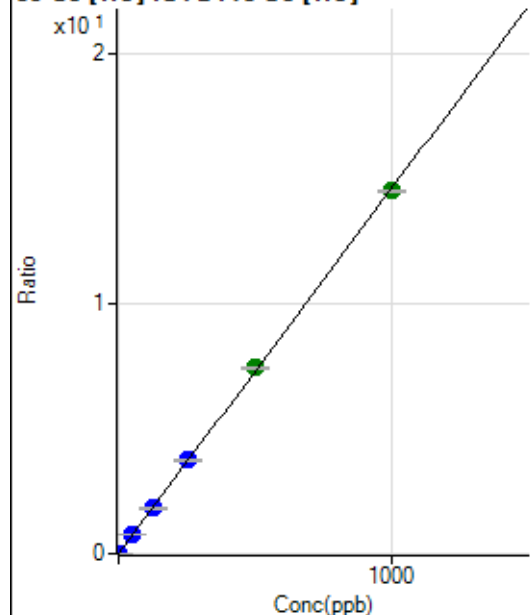
$$R = 1.0000$$

$$DL = 6.503$$

$$BEC = 20.77$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0008	P	24.2
2	☐	1.000	1.072	3342.62	0.0165	P	0.9
3	☐	50.000	51.087	154871.64	0.7456	P	0.8
4	☐	125.000	124.054	376255.91	1.8094	P	1.5
5	☐	250.000	257.495	771942.03	3.7548	P	1.8
6	☐	500.000	508.443	1506269.35	7.4134	A	1.4
7	☐	1000.000	993.968	2991936.62	14.4919	A	0.4
8	☐			10548.24	0.0503	P	2.5

$$y = 0.0146 * x + 8.2691\text{E-}004$$

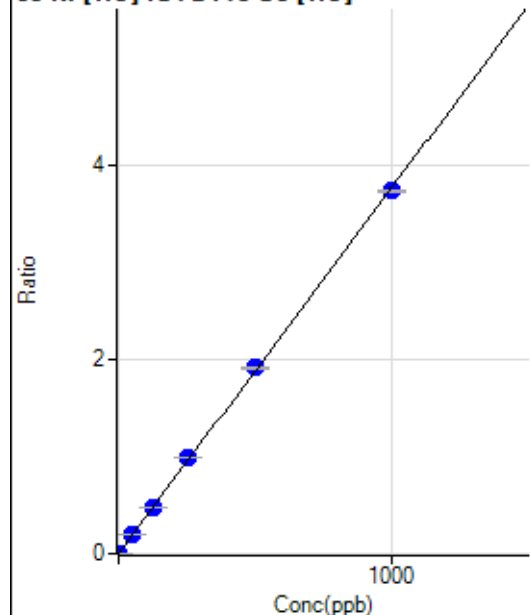
$$R = 0.9999$$

$$DL = 0.04111$$

$$BEC = 0.05672$$

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	315.56	0.0016	P	18.6
2	☐	1.000	0.976	1068.94	0.0053	P	3.5
3	☐	50.000	51.719	40755.33	0.1962	P	0.5
4	☐	125.000	126.978	99692.51	0.4794	P	1.7
5	☐	250.000	263.322	204062.25	0.9925	P	0.8
6	☐	500.000	507.984	388726.61	1.9132	P	0.9
7	☐	1000.000	992.344	771266.26	3.7358	P	0.7
8	☐			10848.48	0.0517	P	1.2

$$y = 0.0038 * x + 0.0016$$

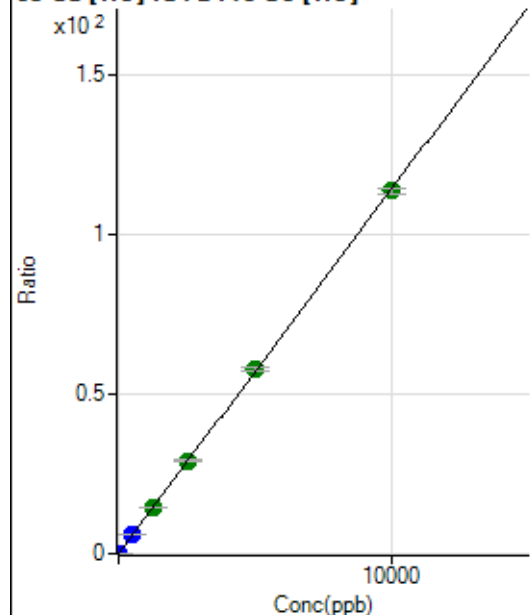
$$R = 0.9999$$

$$DL = 0.2352$$

$$BEC = 0.422$$

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	678.91	0.0034	P	12.3
2	☐	2.000	1.930	5172.05	0.0255	P	2.4
3	☐	500.000	511.826	1215407.97	5.8515	P	0.6
4	☐	1250.000	1250.800	2972650.55	14.2951	A	1.2
5	☐	2500.000	2556.896	6007975.19	29.2185	A	1.5
6	☐	5000.000	5068.097	11766589.82	57.9115	A	1.6
7	☐	10000.000	9951.036	23474384.93	113.7040	A	1.4
8	☐			8392.41	0.0400	P	1.1

$$y = 0.0114 * x + 0.0034$$

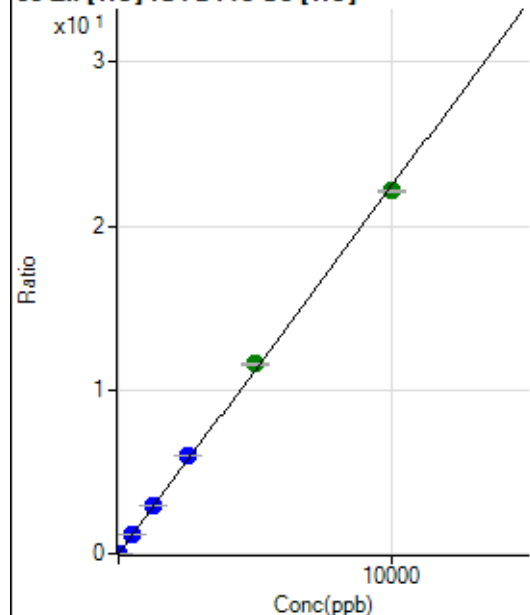
$$R = 0.9999$$

$$DL = 0.1105$$

$$BEC = 0.2986$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1131.17	0.0057	P	5.0
2	☐	5.000	5.579	3694.94	0.0182	P	1.8
3	☐	500.000	527.094	246511.83	1.1868	P	0.2
4	☐	1250.000	1286.789	600789.76	2.8891	P	1.0
5	☐	2500.000	2654.600	1224224.15	5.9541	P	0.8
6	☐	5000.000	5163.103	2351981.76	11.5752	A	1.1
7	☐	10000.000	9873.845	4569307.74	22.1310	A	0.8
8	☐			15970.88	0.0761	P	1.5

$$y = 0.0022 * x + 0.0057$$

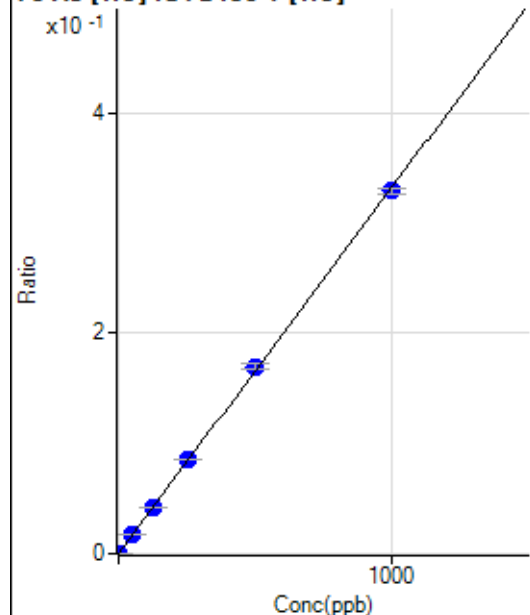
$$R = 0.9997$$

$$DL = 0.378$$

$$BEC = 2.538$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.89	0.0000	P	66.1
2	☐	1.000	1.205	702.05	0.0004	P	6.3
3	☐	50.000	51.444	28952.25	0.0171	P	1.7
4	☐	125.000	125.697	70961.99	0.0417	P	2.6
5	☐	250.000	257.194	144660.22	0.0854	P	0.2
6	☐	500.000	512.273	282338.91	0.1700	P	2.5
7	☐	1000.000	991.905	560598.66	0.3292	P	1.3
8	☐			1561.50	0.0009	P	1.7

$$y = 3.3190E-004 * x + 1.8618E-005$$

$$R = 0.9999$$

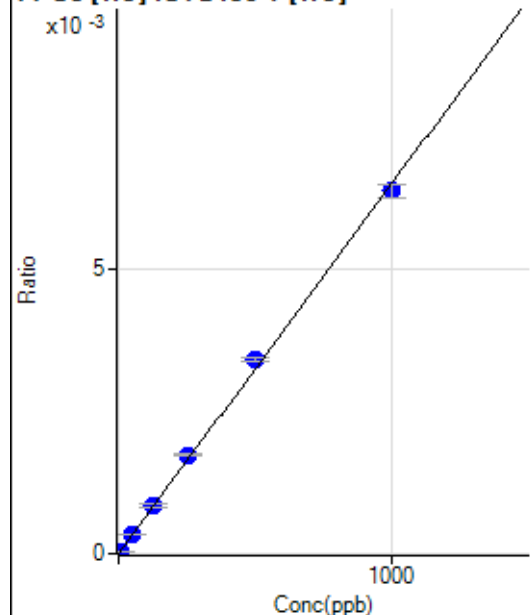
$$DL = 0.1112$$

$$BEC = 0.05609$$

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	6.508	71.11	0.0000	P	17.8
3	☐	50.000	52.885	583.35	0.0003	P	6.0
4	☐	125.000	128.605	1425.64	0.0008	P	9.6
5	☐	250.000	266.925	2944.76	0.0017	P	1.3
6	☐	500.000	527.284	5701.14	0.0034	P	2.3
7	☐	1000.000	981.524	10880.75	0.0064	P	3.6
8	☐			10.00	0.0000	P	57.7

$$y = 6.5116\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

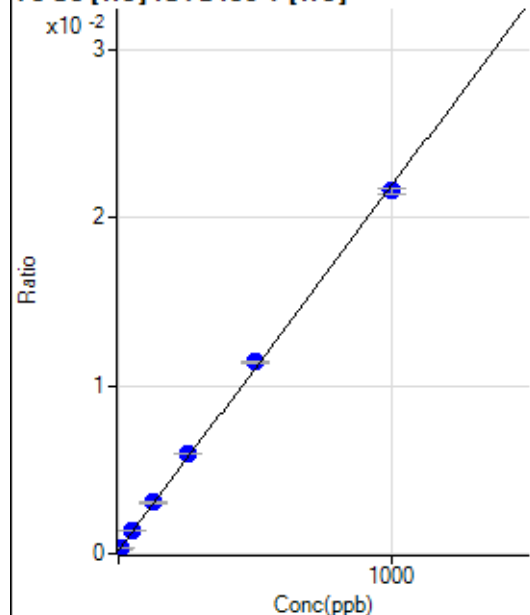
$$DL = 0$$

$$BEC = 0$$

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	316.67	0.0002	P	17.6
2	☐	5.000	6.283	550.02	0.0003	P	7.1
3	☐	50.000	53.062	2272.42	0.0013	P	1.1
4	☐	125.000	131.891	5185.40	0.0030	P	2.3
5	☐	250.000	267.026	10128.01	0.0060	P	0.2
6	☐	500.000	516.886	18926.64	0.0114	P	0.9
7	☐	1000.000	986.279	36715.56	0.0216	P	1.6
8	☐			384.46	0.0002	P	7.8

$$y = 2.1669\text{E-}005 * x + 1.9166\text{E-}004$$

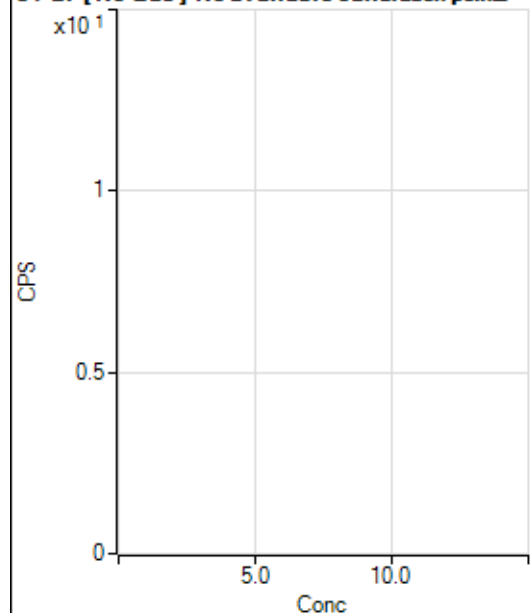
$$R = 0.9996$$

$$DL = 4.674$$

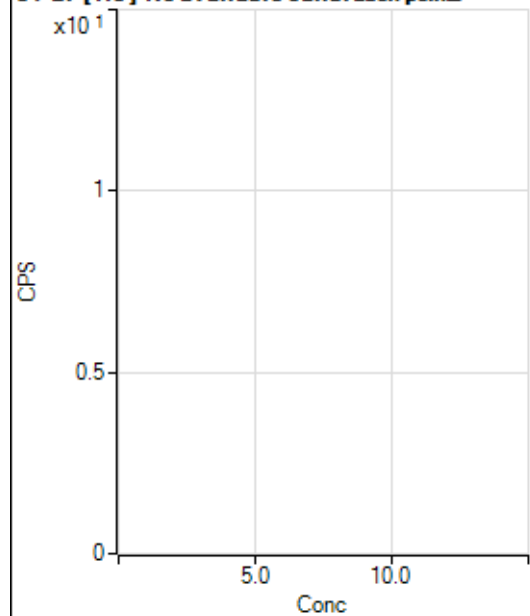
$$BEC = 8.845$$

Weight: <None>

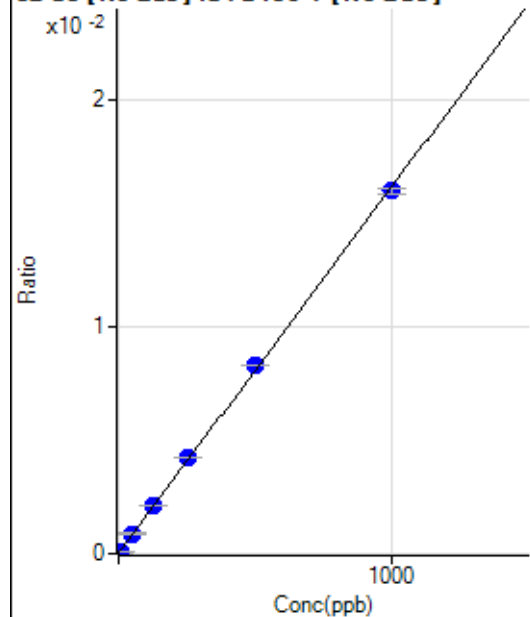
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7944.44		P	0.2
2	☐			8137.89		P	3.6
3	☐			8263.50		P	1.1
4	☐			8081.17		P	1.9
5	☐			7875.51		P	3.5
6	☐			7831.03		P	1.5
7	☐			7662.07		P	0.7
8	☐			7953.32		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			137.78		P	20.6
2	☐			167.78		P	11.3
3	☐			157.78		P	8.5
4	☐			117.78		P	9.9
5	☐			147.78		P	26.1
6	☐			132.23		P	24.0
7	☐			144.45		P	17.5
8	☐			236.67		P	12.0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	109.38	0.0000	P	50.0
2	☐	5.000	5.078	582.86	0.0001	P	6.8
3	☐	50.000	53.060	5236.17	0.0009	P	3.3
4	☐	125.000	130.783	12562.50	0.0021	P	2.1
5	☐	250.000	261.596	25426.41	0.0042	P	1.6
6	☐	500.000	512.806	48835.44	0.0083	P	0.6
7	☐	1000.000	989.822	97022.17	0.0160	P	1.6
8	☐			170.66	0.0000	P	23.8

$$y = 1.6100\text{E-}005 * x + 1.9198\text{E-}005$$

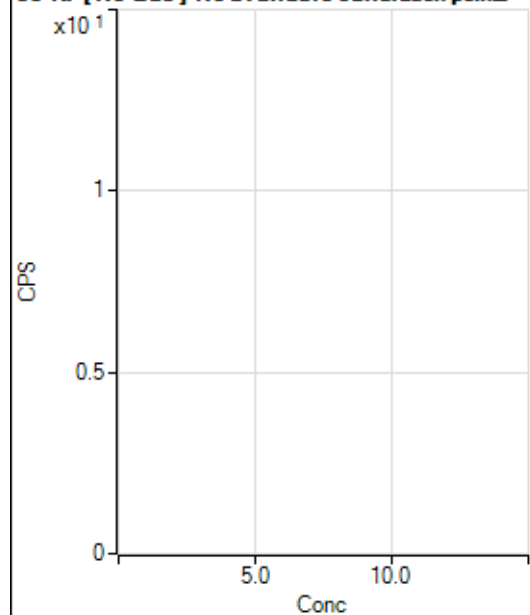
$$R = 0.9998$$

$$DL = 1.788$$

$$BEC = 1.192$$

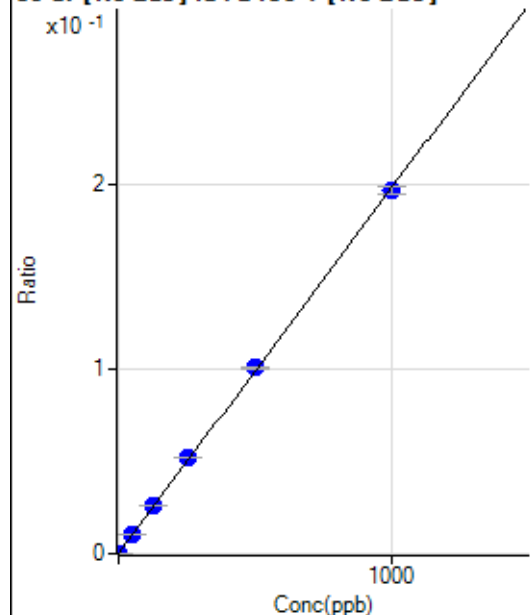
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			340.01		P	8.4
2	☐			367.79		P	2.3
3	☐			356.68		P	12.1
4	☐			348.90		P	2.8
5	☐			391.12		P	11.3
6	☐			371.12		P	6.0
7	☐			374.45		P	13.4
8	☐			376.68		P	4.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	583.35	0.0001	P	4.2
2	☐	1.000	1.051	1792.35	0.0003	P	1.6
3	☐	50.000	51.201	61478.94	0.0103	P	0.9
4	☐	125.000	130.078	153128.59	0.0259	P	0.4
5	☐	250.000	262.094	312976.93	0.0521	P	1.5
6	☐	500.000	507.765	594872.41	0.1008	P	0.6
7	☐	1000.000	992.399	1197386.55	0.1969	P	2.0
8	☐			16981.03	0.0029	P	3.8

$$y = 1.9832E-004 * x + 1.0203E-004$$

$$R = 0.9999$$

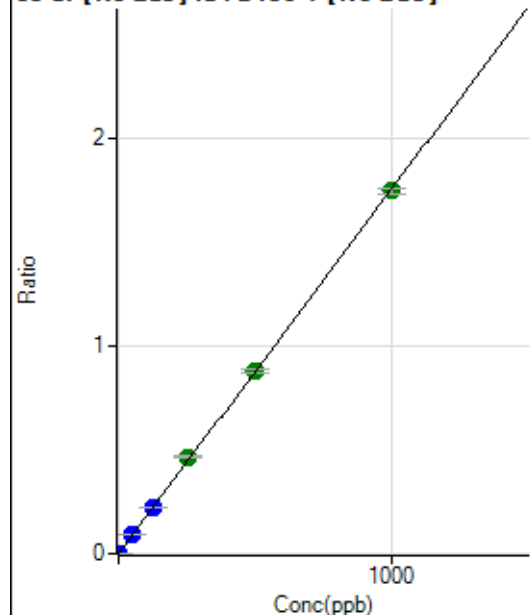
$$DL = 0.06454$$

$$BEC = 0.5145$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	111.11	0.0000	P	9.9
2	☐	1.000	1.064	10895.26	0.0019	P	2.1
3	☐	50.000	50.608	532280.71	0.0888	P	1.0
4	☐	125.000	128.407	1331886.96	0.2253	P	0.6
5	☐	250.000	264.739	2791030.06	0.4644	A	1.6
6	☐	500.000	500.708	5183530.79	0.8784	A	1.4
7	☐	1000.000	995.505	10619106.09	1.7464	A	1.9
8	☐			140378.95	0.0241	P	1.3

$$y = 0.0018 * x + 1.9450E-005$$

$$R = 0.9999$$

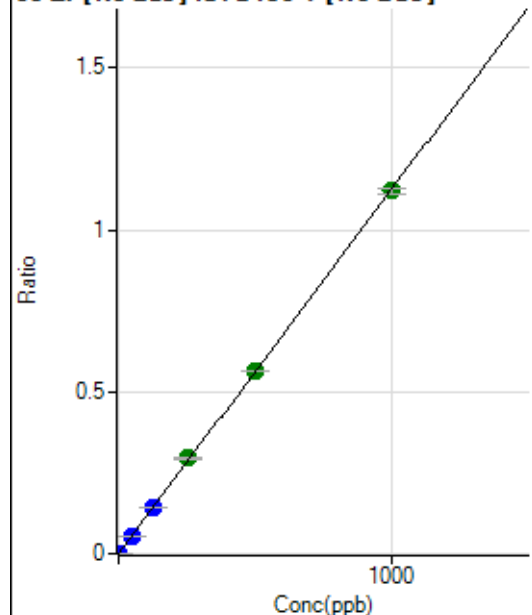
$$DL = 0.003287$$

$$BEC = 0.01109$$

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	325.57	0.0001	P	14.4
2	☐	1.000	1.046	7121.80	0.0012	P	3.6
3	☐	50.000	49.713	335357.16	0.0559	P	0.8
4	☐	125.000	125.221	832621.10	0.1408	P	1.2
5	☐	250.000	261.395	1766325.09	0.2939	A	1.5
6	☐	500.000	502.263	3332632.55	0.5647	A	0.7
7	☐	1000.000	996.006	6809293.30	1.1198	A	1.6
8	☐			6440.37	0.0011	P	4.6

$$y = 0.0011 * x + 5.6907E-005$$

$$R = 0.9999$$

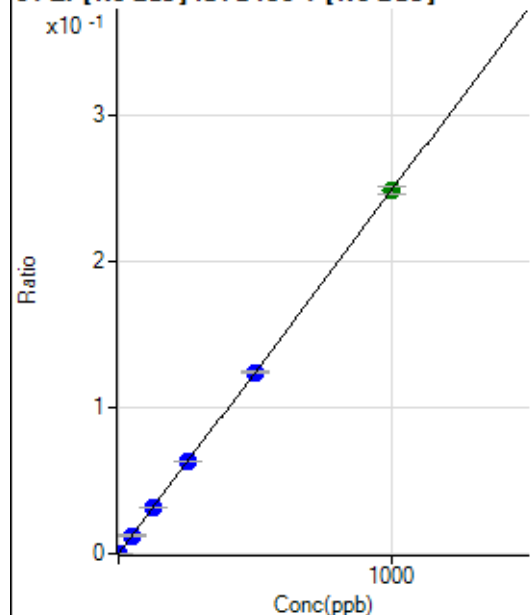
$$DL = 0.02186$$

$$BEC = 0.05062$$

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	72.22	0.0000	P	21.3
2	☐	1.000	1.076	1620.11	0.0003	P	1.2
3	☐	50.000	50.187	74978.22	0.0125	P	0.4
4	☐	125.000	126.175	185808.12	0.0314	P	0.7
5	☐	250.000	254.101	380269.69	0.0633	P	1.4
6	☐	500.000	499.660	734240.74	0.1244	P	0.5
7	☐	1000.000	998.988	1512480.43	0.2487	A	2.2
8	☐			1462.31	0.0003	P	6.7

$$y = 2.4898E-004 * x + 1.2627E-005$$

$$R = 1.0000$$

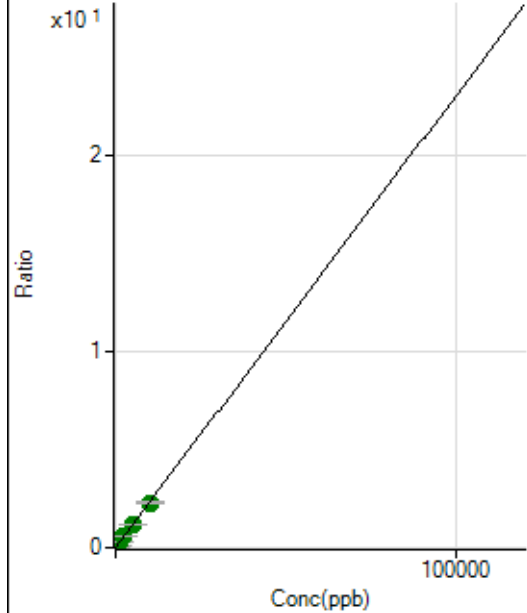
$$DL = 0.03242$$

$$BEC = 0.05072$$

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	280.01	0.0000	P	28.2
2	☐	5.000	5.993	8269.05	0.0014	P	2.7
3	☐	500.000	502.711	695749.80	0.1161	P	0.7
4	☐	1250.000	1250.384	1706442.34	0.2886	A	0.7
5	☐	2500.000	2548.629	3535114.53	0.5882	A	2.6
6	☐	5000.000	5061.197	6893657.75	1.1681	A	1.5
7	☐	10000.000	9957.060	13973517.99	2.2980	A	1.9
8	☐			7484.22	0.0013	P	4.2

$$y = 2.3078\text{E-}004 * x + 4.9085\text{E-}005$$

$$R = 1.0000$$

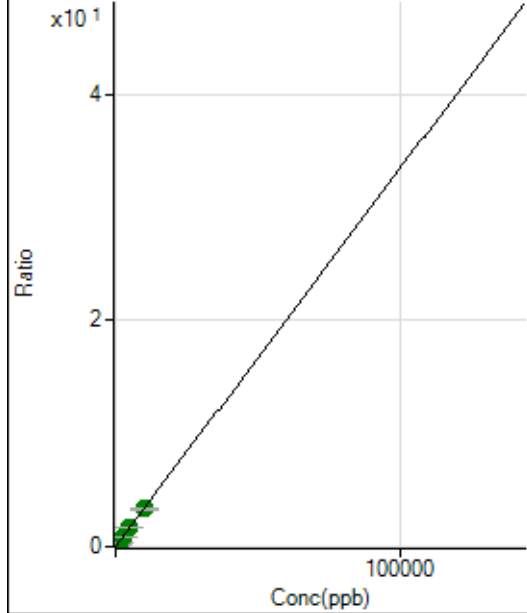
$$DL = 0.1799$$

$$BEC = 0.2127$$

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	194.45	0.0000	P	9.9
2	☐	5.000	4.995	9835.60	0.0017	P	2.9
3	☐	500.000	497.335	996628.32	0.1663	P	0.2
4	☐	1250.000	1241.268	2452960.15	0.4149	A	1.7
5	☐	2500.000	2551.917	5126059.79	0.8530	A	1.5
6	☐	5000.000	5021.087	9903979.71	1.6783	A	1.7
7	☐	10000.000	9977.702	20280078.73	3.3350	A	1.3
8	☐			8713.79	0.0015	P	1.5

$$y = 3.3424\text{E-}004 * x + 3.4033\text{E-}005$$

$$R = 1.0000$$

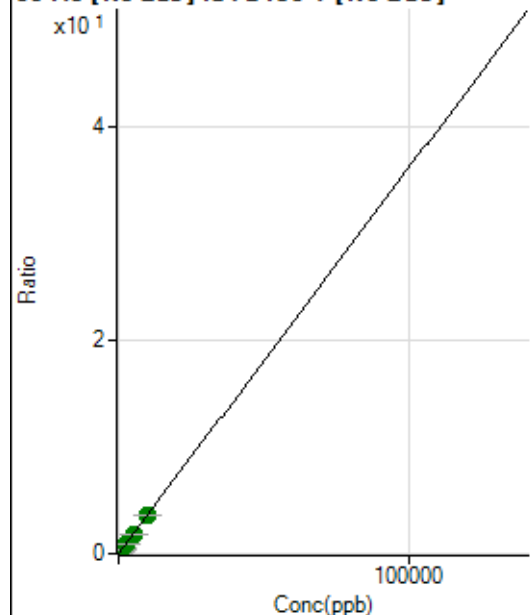
$$DL = 0.03029$$

$$BEC = 0.1018$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	212.22	0.0000	P	12.5
2	☐	5.000	5.228	11153.23	0.0019	P	1.6
3	☐	500.000	501.465	1089309.80	0.1817	P	1.1
4	☐	1250.000	1248.199	2673881.29	0.4523	A	1.1
5	☐	2500.000	2546.993	5546178.25	0.9228	A	2.6
6	☐	5000.000	5025.681	10745341.09	1.8209	A	1.4
7	☐	10000.000	9975.563	21977576.89	3.6142	A	1.8
8	☐			12269.68	0.0021	P	3.5

$$y = 3.6230E-004 * x + 3.7164E-005$$

$$R = 1.0000$$

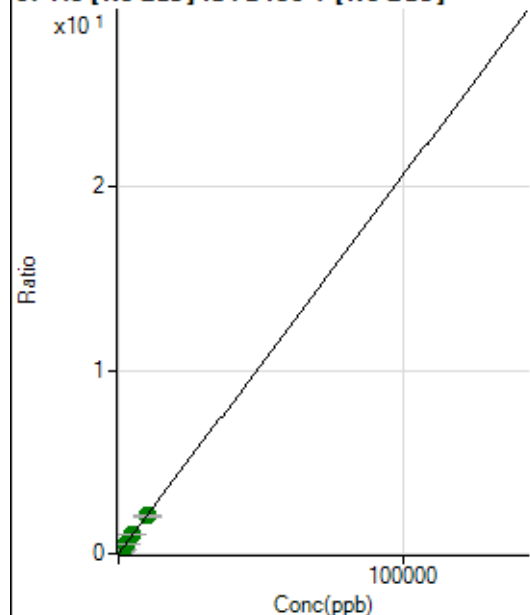
$$DL = 0.03846$$

$$BEC = 0.1026$$

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	104.45	0.0000	P	30.7
2	☐	5.000	5.016	6099.11	0.0011	P	3.9
3	☐	500.000	503.869	625219.41	0.1043	P	0.5
4	☐	1250.000	1221.141	1494310.77	0.2528	A	2.0
5	☐	2500.000	2525.817	3141513.88	0.5228	A	0.4
6	☐	5000.000	5037.056	6152251.37	1.0425	A	0.2
7	☐	10000.000	9978.432	12557761.90	2.0652	A	2.2
8	☐			5521.10	0.0009	P	1.8

$$y = 2.0696E-004 * x + 1.8314E-005$$

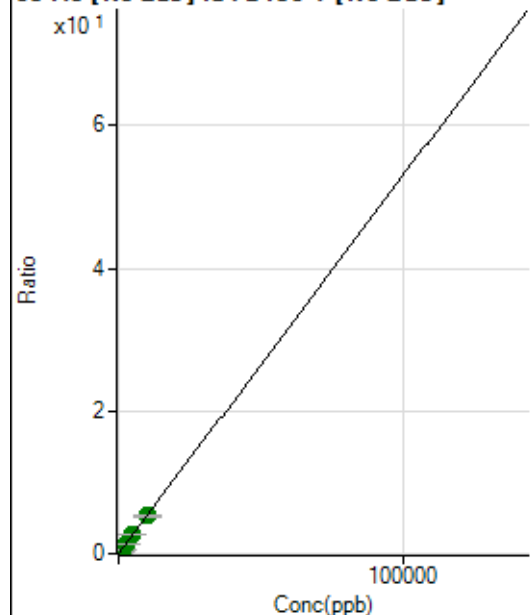
$$R = 1.0000$$

$$DL = 0.0814$$

$$BEC = 0.08849$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	298.89	0.0001	P	18.7
2	☐	5.000	5.042	15690.73	0.0027	P	2.9
3	☐	500.000	498.239	1579229.21	0.2635	A	0.8
4	☐	1250.000	1235.136	3860839.59	0.6530	A	1.6
5	☐	2500.000	2519.072	8003231.89	1.3318	A	2.2
6	☐	5000.000	5049.392	15753845.74	2.6695	A	0.7
7	☐	10000.000	9972.482	32056652.86	5.2721	A	3.0
8	☐			14027.95	0.0024	P	2.9

$$y = 5.2866\text{E-}004 * x + 5.2342\text{E-}005$$

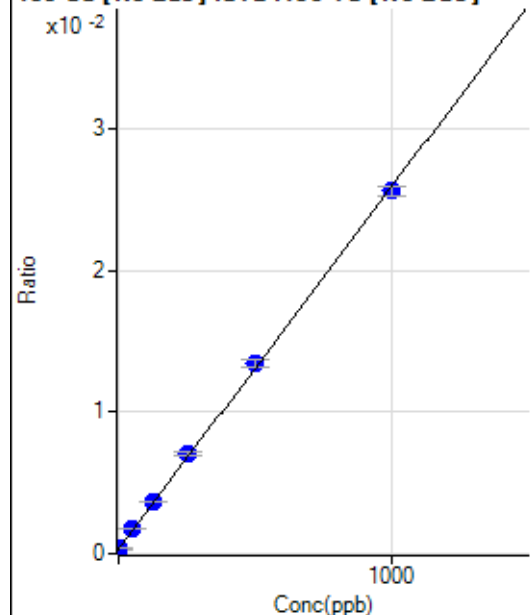
$$R = 1.0000$$

$$DL = 0.05543$$

$$BEC = 0.09901$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1262.29	0.0003	P	8.9
2	☐	1.000	2.441	1543.43	0.0004	P	5.6
3	☐	50.000	54.650	7081.79	0.0017	P	0.5
4	☐	125.000	132.822	15409.38	0.0037	P	0.4
5	☐	250.000	263.410	29494.43	0.0071	P	2.2
6	☐	500.000	512.971	55997.64	0.0134	P	4.7
7	☐	1000.000	988.950	111645.58	0.0256	P	2.7
8	☐			1486.76	0.0004	P	1.6

$$y = 2.5573\text{E-}005 * x + 3.1651\text{E-}004$$

$$R = 0.9998$$

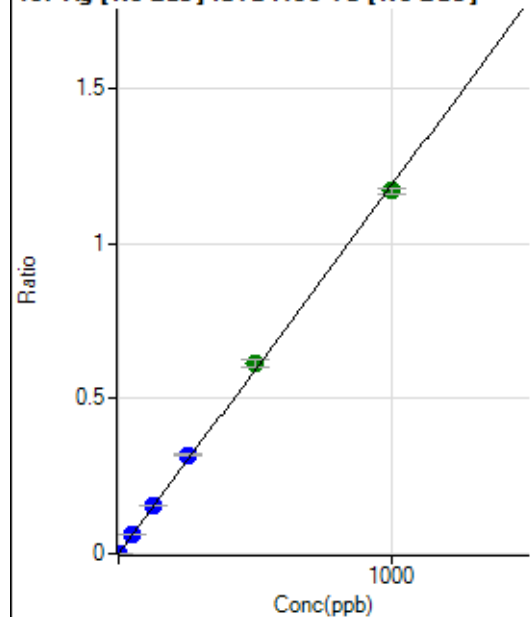
$$DL = 3.311$$

$$BEC = 12.38$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	49.11	0.0000	P	39.0
2	☐	1.000	1.167	5701.23	0.0014	P	1.7
3	☐	50.000	53.829	264305.84	0.0640	P	2.7
4	☐	125.000	131.046	646240.15	0.1557	P	1.0
5	☐	250.000	267.267	1328380.21	0.3176	P	1.6
6	☐	500.000	518.220	2567174.05	0.6158	A	3.9
7	☐	1000.000	985.626	5106815.30	1.1712	A	1.9
8	☐			5498.44	0.0013	P	3.1

$$y = 0.0012 * x + 1.2294E-005$$

$$R = 0.9996$$

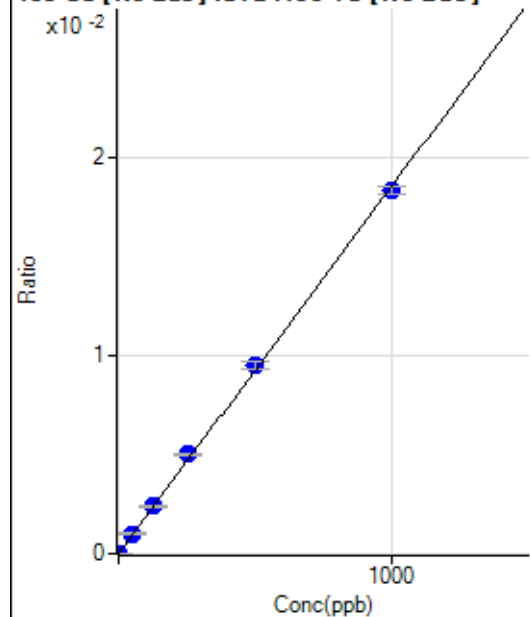
$$DL = 0.01211$$

$$BEC = 0.01035$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.44	0.0000	P	43.3
2	☐	1.000	0.939	75.56	0.0000	P	14.2
3	☐	50.000	53.549	4107.29	0.0010	P	5.2
4	☐	125.000	128.727	9912.35	0.0024	P	2.3
5	☐	250.000	270.893	21013.13	0.0050	P	2.8
6	☐	500.000	511.756	39571.77	0.0095	P	4.3
7	☐	1000.000	988.255	79919.17	0.0183	P	2.2
8	☐			73.33	0.0000	P	43.4

$$y = 1.8546E-005 * x + 1.1134E-006$$

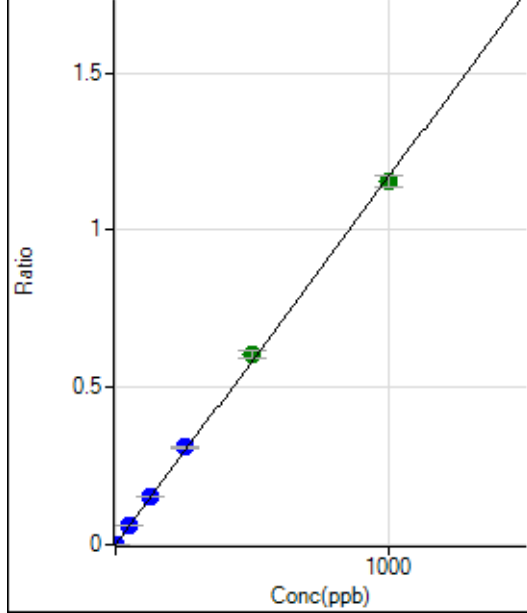
$$R = 0.9996$$

$$DL = 0.07795$$

$$BEC = 0.06004$$

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	51.11	0.0000	P	10.0
2	☐	1.000	1.120	5382.16	0.0013	P	1.8
3	☐	50.000	53.155	256669.73	0.0621	P	1.0
4	☐	125.000	130.005	630443.41	0.1519	P	0.5
5	☐	250.000	265.532	1297718.33	0.3103	P	1.8
6	☐	500.000	517.205	2519385.10	0.6044	A	4.2
7	☐	1000.000	986.731	5026904.93	1.1530	A	3.1
8	☐			5014.25	0.0012	P	0.3

$$y = 0.0012 * x + 1.2813E-005$$

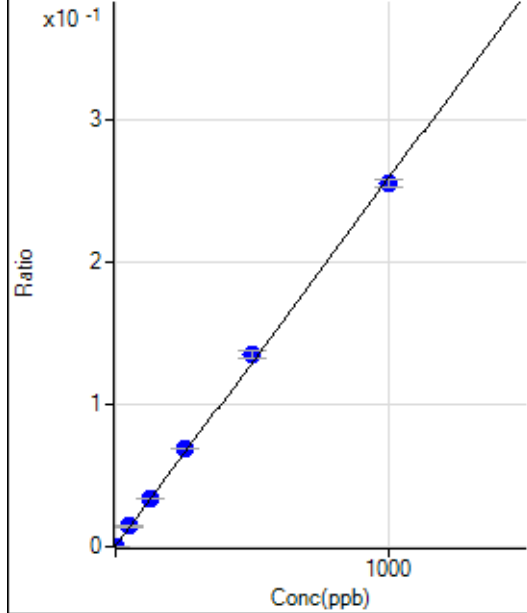
$$R = 0.9996$$

$$DL = 0.003305$$

$$BEC = 0.01097$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	892.72	0.0002	P	8.8
2	☐	1.000	1.168	2142.02	0.0005	P	0.6
3	☐	50.000	54.323	58932.25	0.0143	P	1.8
4	☐	125.000	129.614	139940.62	0.0337	P	1.5
5	☐	250.000	265.479	287914.36	0.0688	P	1.6
6	☐	500.000	520.220	561459.00	0.1347	P	4.0
7	☐	1000.000	985.227	1111330.07	0.2549	P	2.1
8	☐			1577.19	0.0004	P	3.5

$$y = 2.5847E-004 * x + 2.2384E-004$$

$$R = 0.9996$$

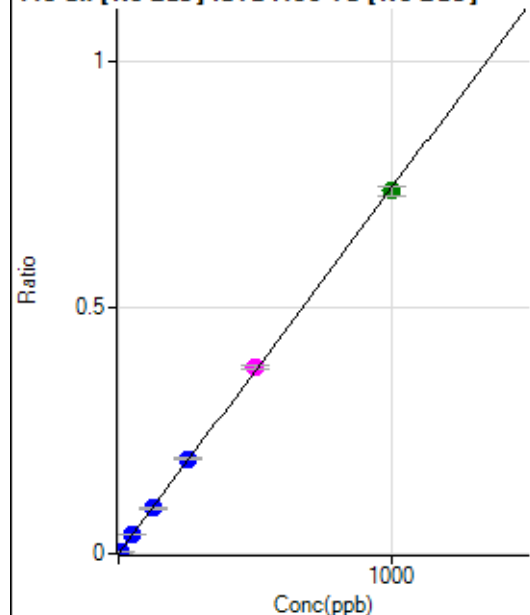
$$DL = 0.2275$$

$$BEC = 0.866$$

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	1048.94	0.0003	P	19.2
2	☐	5.000	5.028	16264.86	0.0040	P	1.6
3	☐	50.000	51.588	159153.54	0.0385	P	1.4
4	☐	125.000	124.114	383026.93	0.0923	P	1.9
5	☐	250.000	257.758	800564.55	0.1914	P	2.2
6	☐	500.000	511.637	1583467.06	0.3797	M	2.4
7	☐	1000.000	992.273	3209864.54	0.7362	A	2.4
8	☐			5521.11	0.0013	P	1.8

$$y = 7.4163\text{E-}004 * x + 2.6311\text{E-}004$$

$$R = 0.9999$$

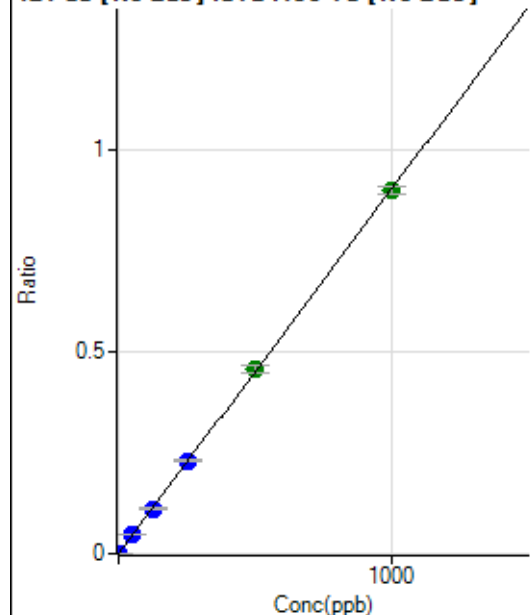
$$DL = 0.2045$$

$$BEC = 0.3548$$

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	104.44	0.0000	P	29.2
2	☐	2.000	2.107	7845.53	0.0019	P	1.7
3	☐	50.000	50.867	189495.47	0.0459	P	1.7
4	☐	125.000	123.626	462403.26	0.1114	P	1.6
5	☐	250.000	255.417	962775.78	0.2302	P	1.5
6	☐	500.000	506.134	1901234.43	0.4562	A	4.9
7	☐	1000.000	995.707	3912650.98	0.8974	A	2.3
8	☐			10115.87	0.0025	P	2.0

$$y = 9.0119\text{E-}004 * x + 2.6157\text{E-}005$$

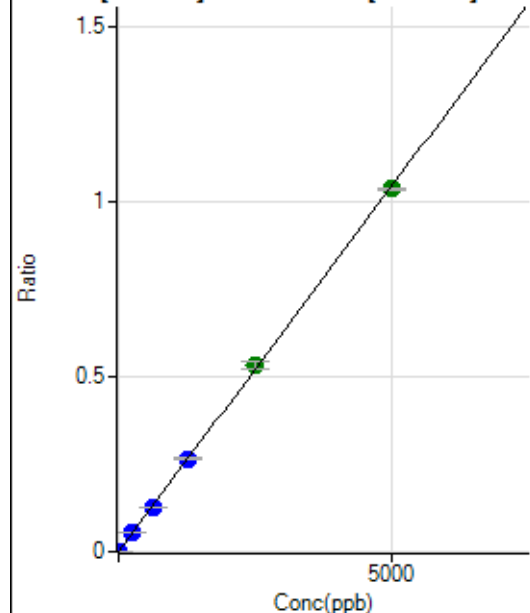
$$R = 1.0000$$

$$DL = 0.0254$$

$$BEC = 0.02903$$

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	42.22	0.0000	P	20.3
2	☐	10.000	9.959	8510.39	0.0021	P	4.4
3	☐	250.000	251.051	216535.41	0.0524	P	0.3
4	☐	625.000	612.316	530399.00	0.1278	P	0.7
5	☐	1250.000	1268.690	1107476.26	0.2648	P	1.9
6	☐	2500.000	2560.694	2228666.75	0.5345	A	3.7
7	☐	5000.000	4966.514	4520469.27	1.0366	A	0.8
8	☐			7303.04	0.0018	P	1.5

$$y = 2.0872\text{E-}004 * x + 1.0587\text{E-}005$$

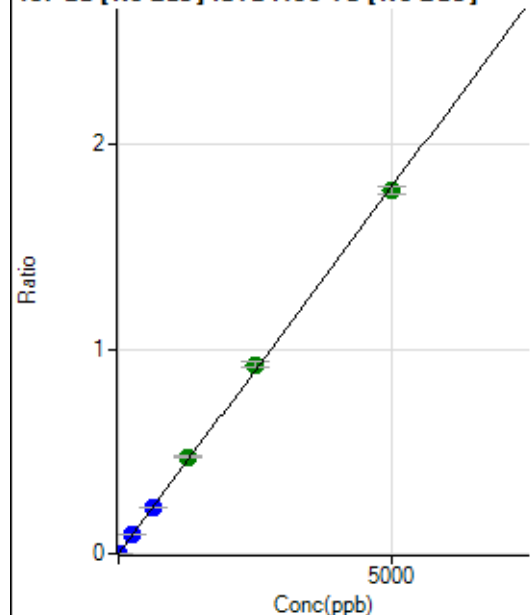
$$R = 0.9999$$

$$DL = 0.03082$$

$$BEC = 0.05072$$

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	54.44	0.0000	P	24.9
2	☐	10.000	10.131	14842.30	0.0036	P	2.7
3	☐	250.000	254.277	376326.25	0.0911	P	0.6
4	☐	625.000	622.158	924711.16	0.2228	P	1.5
5	☐	1250.000	1320.797	1978343.77	0.4731	A	2.5
6	☐	2500.000	2572.433	3842091.50	0.9214	A	2.9
7	☐	5000.000	4946.226	7724748.77	1.7716	A	2.1
8	☐			12684.64	0.0031	P	1.5

$$y = 3.5816\text{E-}004 * x + 1.3634\text{E-}005$$

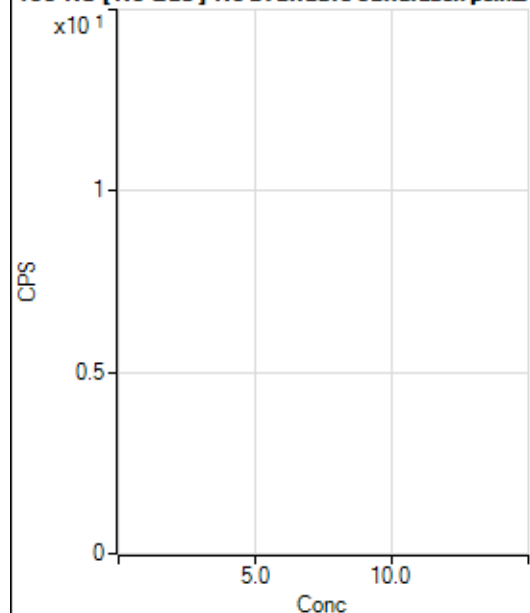
$$R = 0.9997$$

$$DL = 0.02847$$

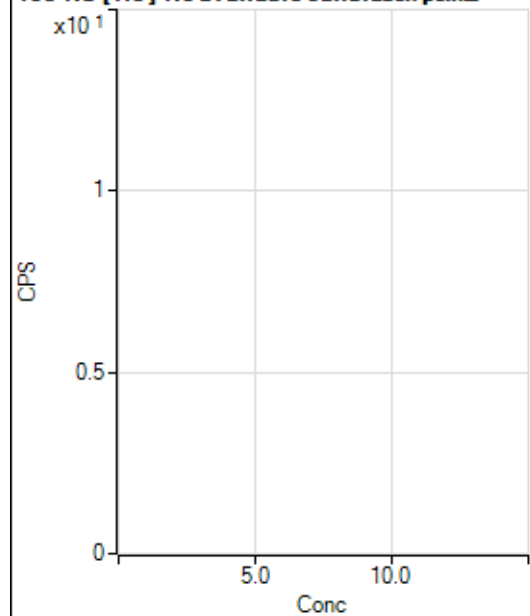
$$BEC = 0.03807$$

Weight: <None>

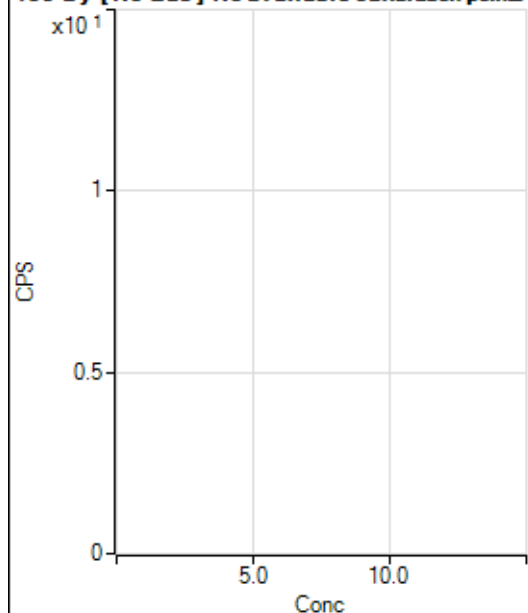
Min Conc: 0

150 Nd [No Gas] No available calibration points

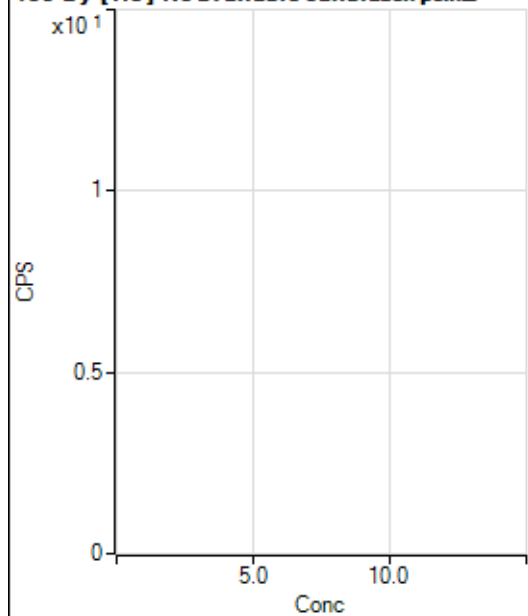
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			7.78		P	99.0
3	☐			8.89		P	57.3
4	☐			34.45		P	20.1
5	☐			50.00		P	17.6
6	☐			72.22		P	32.7
7	☐			136.67		P	11.2
8	☐			101.11		P	19.3

150 Nd [He] No available calibration points

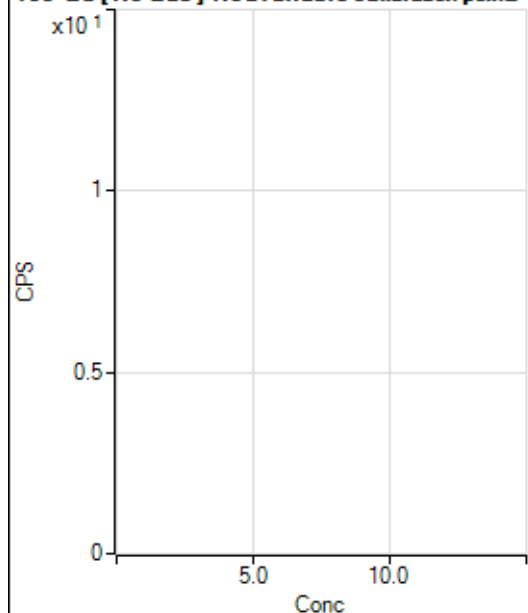
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	173.
3	☐			2.22		P	173.
4	☐			11.11		P	62.5
5	☐			12.22		P	41.7
6	☐			25.55		P	52.7
7	☐			27.78		P	42.1
8	☐			45.56		P	33.8

156 Dy [No Gas] No available calibration points

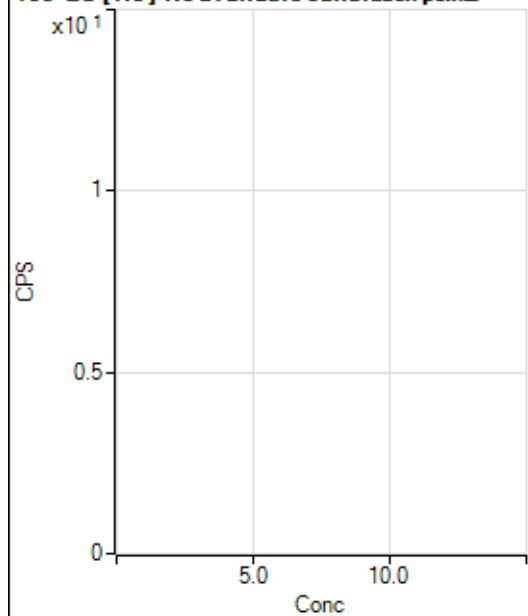
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			4.44		P	43.4
3	☐			6.67		P	132.
4	☐			16.67		P	34.6
5	☐			36.67		P	15.7
6	☐			42.22		P	52.6
7	☐			92.22		P	17.8
8	☐			217.78		P	14.5

156 Dy [He] No available calibration points

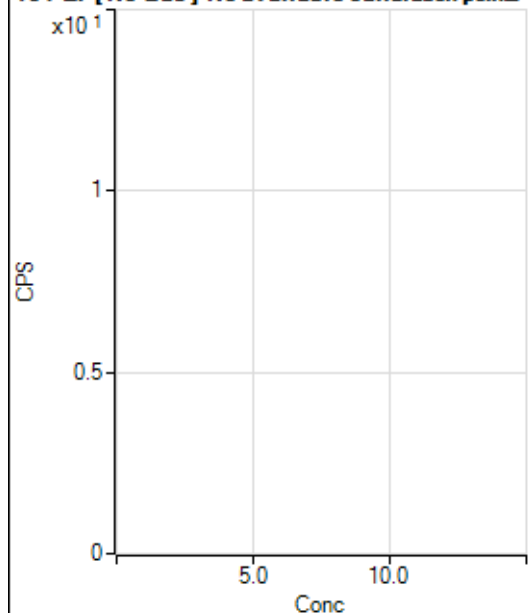
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			18.89		P	27.0
4	☐			27.78		P	38.6
5	☐			66.67		P	13.2
6	☐			131.11		P	3.9
7	☐			274.45		P	18.2
8	☐			167.78		P	19.1

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

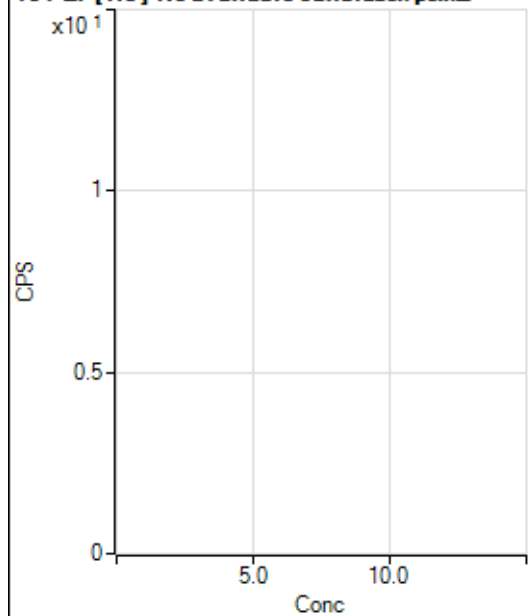
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	10.2
2	☐			32.22		P	31.6
3	☐			14.44		P	35.3
4	☐			25.56		P	64.3
5	☐			34.44		P	24.3
6	☐			38.89		P	60.8
7	☐			73.33		P	32.8
8	☐			213.34		P	4.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			193.34		P	25.9
2	☐			204.45		P	20.6
3	☐			205.56		P	0.9
4	☐			183.34		P	15.9
5	☐			223.34		P	11.7
6	☐			211.11		P	11.9
7	☐			208.89		P	17.2
8	☐			358.90		P	6.0

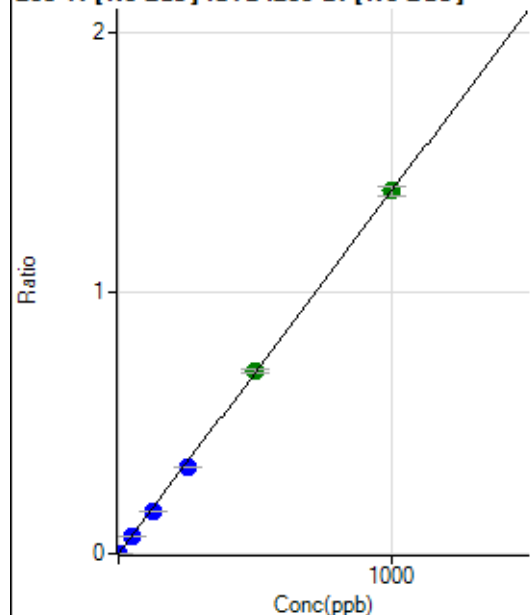
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	39.0
2	☐			17.78		P	39.0
3	☐			21.11		P	50.8
4	☐			35.55		P	10.8
5	☐			54.44		P	49.5
6	☐			53.33		P	38.0
7	☐			97.78		P	5.2
8	☐			414.46		P	14.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.55		P	24.8
2	☐			14.44		P	13.4
3	☐			15.56		P	12.4
4	☐			35.56		P	14.3
5	☐			42.22		P	12.1
6	☐			55.56		P	34.6
7	☐			78.89		P	19.1
8	☐			298.89		P	12.3

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	156.67	0.0001	P	10.9
2	☐	1.000	1.050	4027.30	0.0015	P	3.1
3	☐	50.000	46.667	176453.14	0.0649	P	3.8
4	☐	125.000	116.649	437535.80	0.1621	P	1.1
5	☐	250.000	240.073	905041.07	0.3336	P	0.6
6	☐	500.000	506.171	1900644.97	0.7032	A	2.1
7	☐	1000.000	1000.607	3852692.20	1.3900	A	2.5
8	☐			5457.83	0.0022	P	4.0

$$y = 0.0014 * x + 6.1670E-005$$

$$R = 0.9999$$

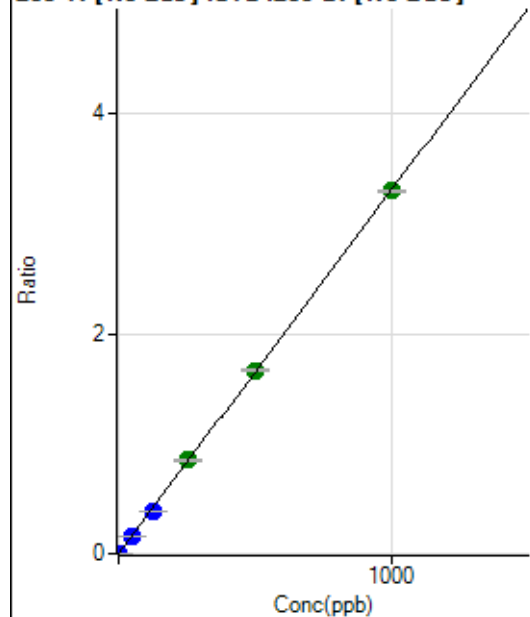
$$DL = 0.01453$$

$$BEC = 0.04439$$

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	355.56	0.0001	P	5.7
2	☐	1.000	0.988	9029.75	0.0034	P	2.8
3	☐	50.000	47.291	426053.91	0.1566	P	3.0
4	☐	125.000	116.936	1044898.42	0.3871	P	1.2
5	☐	250.000	256.418	2303014.17	0.8487	A	1.1
6	☐	500.000	504.224	4511192.30	1.6688	A	1.0
7	☐	1000.000	997.427	9150203.13	3.3010	A	0.9
8	☐			13056.35	0.0052	P	0.5

$$y = 0.0033 * x + 1.4006E-004$$

$$R = 0.9999$$

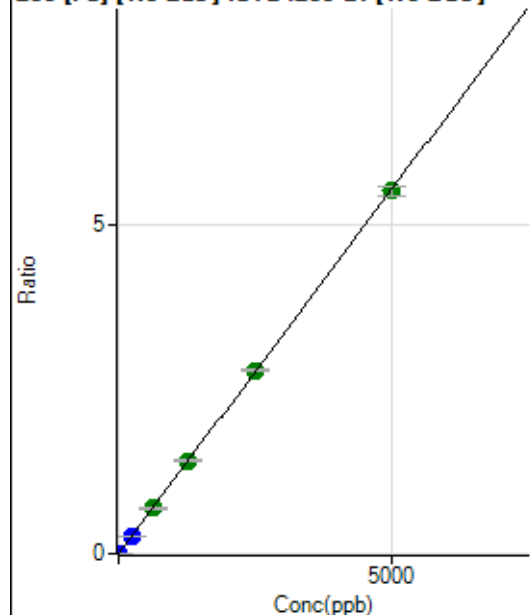
$$DL = 0.007231$$

$$BEC = 0.04232$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	320.01	0.0001	P	11.3
2	☐	1.000	0.838	2792.54	0.0011	P	1.9
3	☐	250.000	236.232	712261.44	0.2618	P	1.5
4	☐	625.000	623.062	1863227.45	0.6903	A	2.5
5	☐	1250.000	1277.065	3838228.38	1.4147	A	1.0
6	☐	2500.000	2521.227	7549402.87	2.7928	A	0.8
7	☐	5000.000	4983.551	15299994.63	5.5203	A	2.7
8	☐			6449.37	0.0026	P	0.8

$$y = 0.0011 * x + 1.2596E-004$$

$$R = 1.0000$$

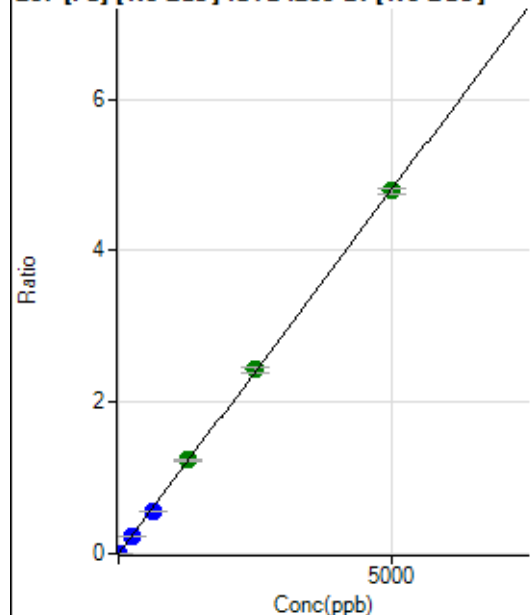
$$DL = 0.03858$$

$$BEC = 0.1137$$

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	264.45	0.0001	P	11.0
2	☐	1.000	0.852	2442.47	0.0009	P	2.9
3	☐	250.000	233.079	609369.99	0.2241	P	3.1
4	☐	625.000	585.727	1519233.62	0.5629	P	0.3
5	☐	1250.000	1286.656	3354735.89	1.2364	A	1.3
6	☐	2500.000	2525.810	6559540.53	2.4270	A	2.6
7	☐	5000.000	4983.686	13273251.61	4.7886	A	1.6
8	☐			5497.84	0.0022	P	1.4

$$y = 9.6083E-004 * x + 1.0420E-004$$

$$R = 0.9999$$

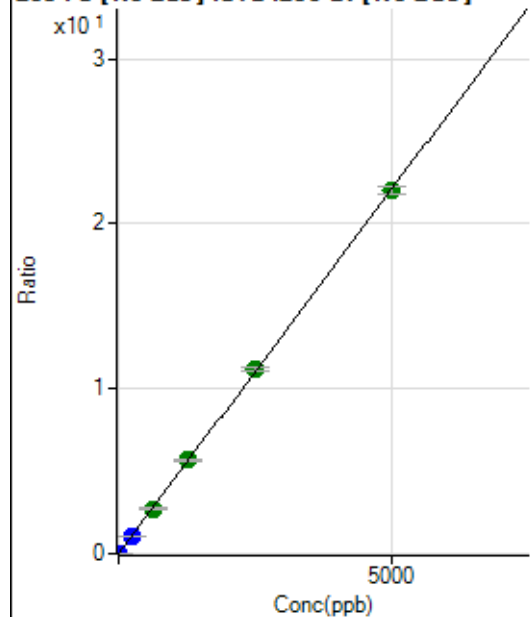
$$DL = 0.03563$$

$$BEC = 0.1084$$

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	1283.37	0.0005	P	10.0
2	☐	1.000	0.862	11422.03	0.0043	P	2.1
3	☐	250.000	236.398	2839994.21	1.0442	P	2.8
4	☐	625.000	619.207	7379703.48	2.7342	A	1.0
5	☐	1250.000	1280.697	15341491.43	5.6545	A	1.3
6	☐	2500.000	2527.813	30164911.08	11.1603	A	2.0
7	☐	5000.000	4979.823	60936859.93	21.9854	A	2.0
8	☐			25567.49	0.0103	P	1.4

$$y = 0.0044 * x + 5.0546E-004$$

$$R = 0.9999$$

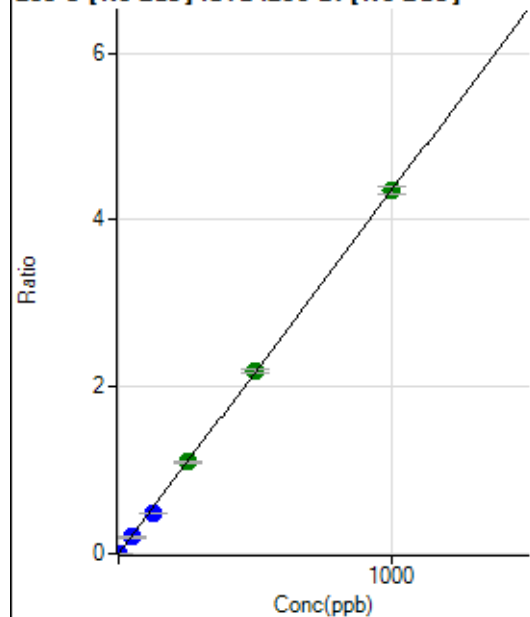
$$DL = 0.03443$$

$$BEC = 0.1145$$

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	34.45	0.0000	P	48.3
2	☐	1.000	0.925	10689.93	0.0040	P	1.9
3	☐	50.000	45.212	534818.94	0.1967	P	4.1
4	☐	125.000	113.170	1328820.28	0.4923	P	0.7
5	☐	250.000	251.880	2973095.51	1.0957	A	1.3
6	☐	500.000	503.906	5924952.97	2.1921	A	1.9
7	☐	1000.000	999.295	12048738.99	4.3471	A	2.3
8	☐			724.47	0.0003	P	7.7

$$y = 0.0044 * x + 1.3564E-005$$

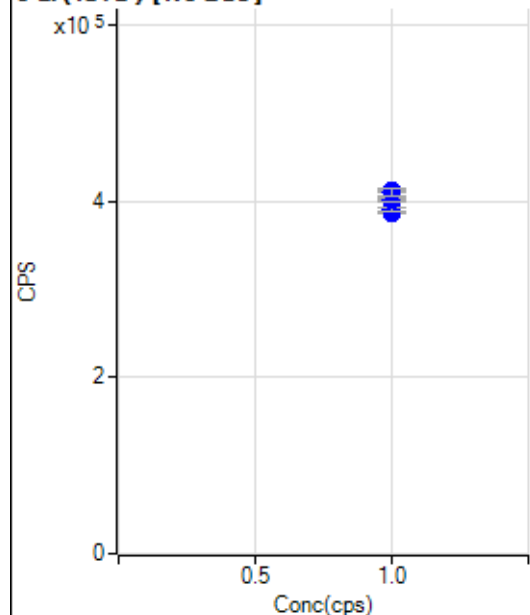
$$R = 0.9999$$

$$DL = 0.004517$$

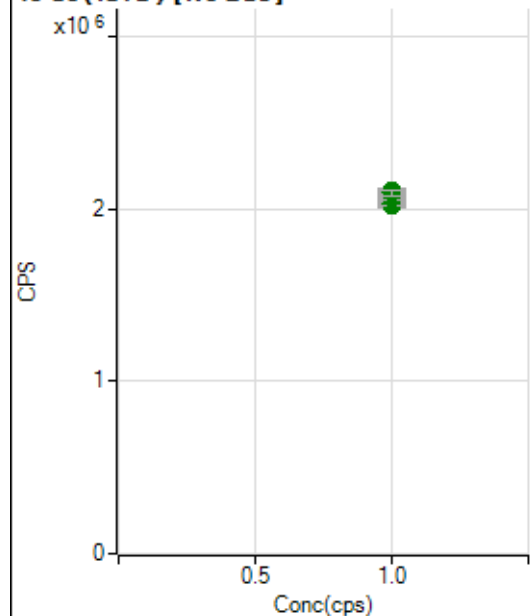
$$BEC = 0.003118$$

Weight: <None>

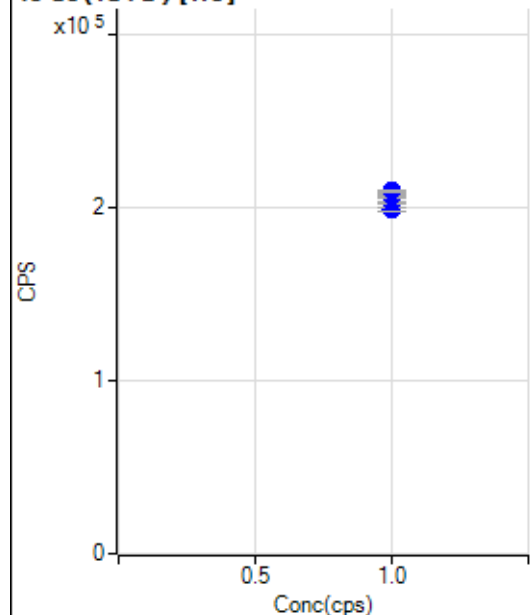
Min Conc: 0

6 Li (ISTD) [No Gas]

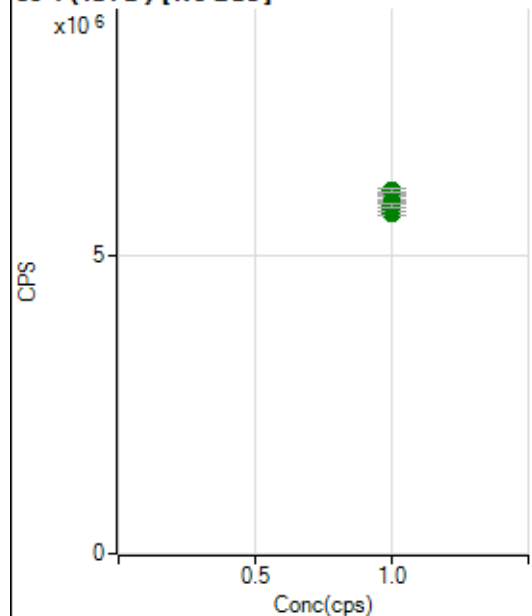
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		386359.29		P	0.5
2	☐	1.000		389525.85		P	1.1
3	☐	1.000		404721.10		P	2.4
4	☐	1.000		411089.41		P	0.9
5	☐	1.000		402869.78		P	0.9
6	☐	1.000		400771.80		P	1.0
7	☐	1.000		411321.98		P	0.4
8	☐	1.000		410703.96		P	2.2

45 Sc (ISTD) [No Gas]

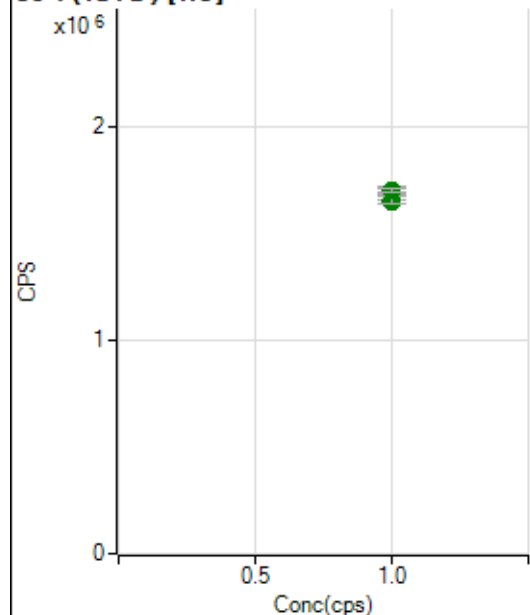
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2020262.87		A	1.0
2	☐	1.000		2030736.03		A	0.7
3	☐	1.000		2070456.34		A	1.5
4	☐	1.000		2089814.36		A	1.8
5	☐	1.000		2078453.70		A	0.8
6	☐	1.000		2072656.56		A	1.3
7	☐	1.000		2106201.39		A	1.1
8	☐	1.000		2096008.56		A	1.4

45 Sc (ISTD) [He]

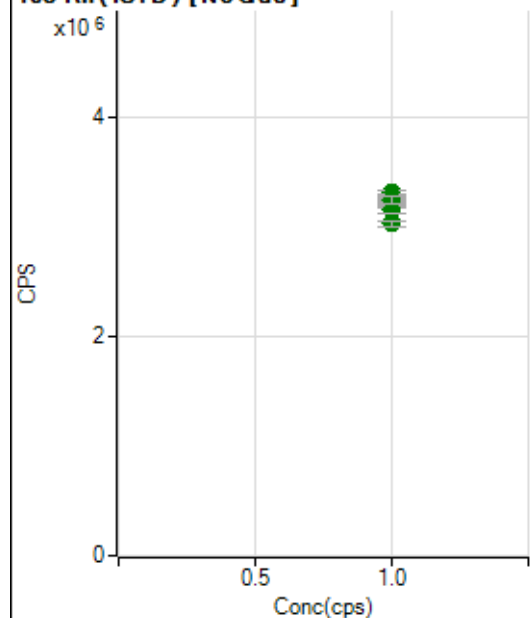
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		198880.32		P	0.8
2	☐	1.000		203134.51		P	0.7
3	☐	1.000		207711.73		P	0.6
4	☐	1.000		207958.58		P	0.7
5	☐	1.000		205630.17		P	1.9
6	☐	1.000		203195.01		P	0.8
7	☐	1.000		206460.35		P	0.8
8	☐	1.000		209807.39		P	0.8

89 Y (ISTD) [No Gas]

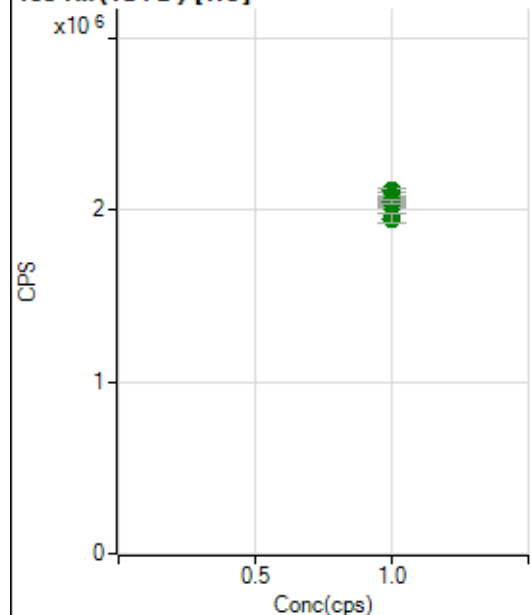
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5715524.57		A	1.1
2	☐	1.000		5774021.58		A	0.9
3	☐	1.000		5994348.59		A	0.3
4	☐	1.000		5912528.87		A	0.8
5	☐	1.000		6009444.15		A	0.6
6	☐	1.000		5901421.79		A	0.4
7	☐	1.000		6081629.56		A	1.1
8	☐	1.000		5824758.73		A	1.3

89 Y(ISTD) [He]

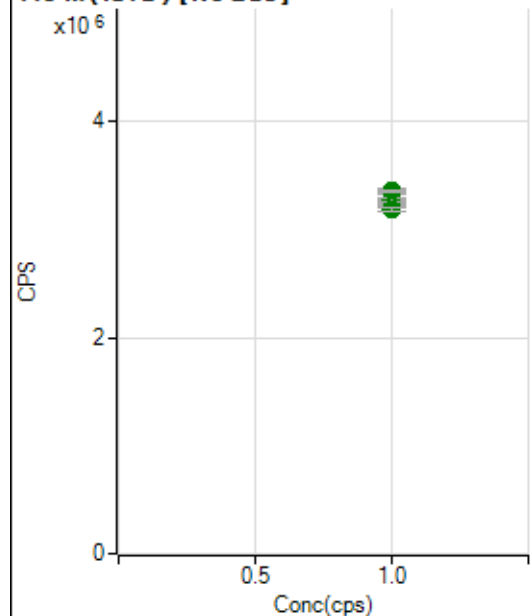
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1651342.84		A	1.3
2	☐	1.000		1678037.62		A	0.3
3	☐	1.000		1693926.61		A	0.8
4	☐	1.000		1700946.21		A	2.5
5	☐	1.000		1694278.73		A	0.7
6	☐	1.000		1661116.80		A	2.7
7	☐	1.000		1702885.98		A	1.2
8	☐	1.000		1702938.01		A	1.0

103 Rh(ISTD) [No Gas]

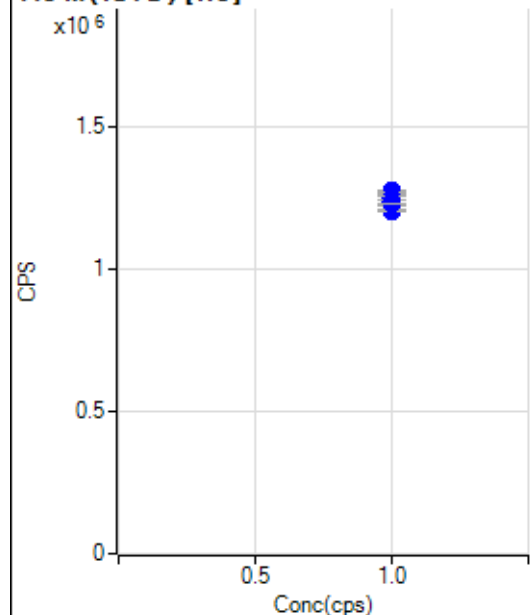
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3151649.22		A	1.8
2	☐	1.000		3201418.53		A	1.2
3	☐	1.000		3307179.81		A	1.3
4	☐	1.000		3272861.76		A	1.4
5	☐	1.000		3237473.53		A	1.5
6	☐	1.000		3205939.36		A	1.4
7	☐	1.000		3239461.93		A	2.4
8	☐	1.000		3026179.12		A	1.4

103 Rh (ISTD) [He]

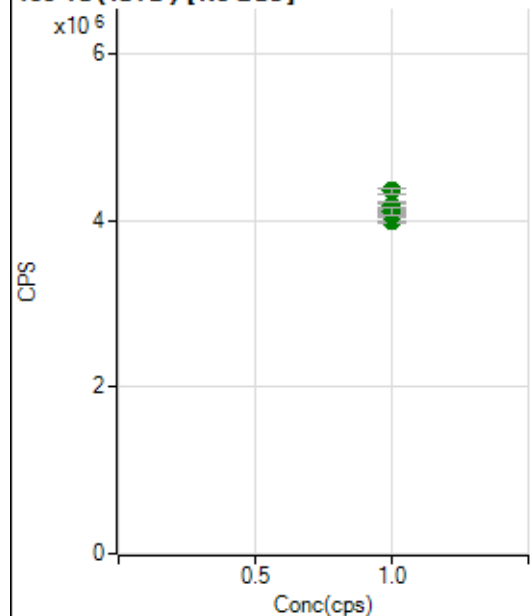
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2029319.73		A	0.4
2	☐	1.000		2056393.06		A	1.8
3	☐	1.000		2111621.17		A	1.2
4	☐	1.000		2080502.02		A	0.5
5	☐	1.000		2046871.27		A	0.4
6	☐	1.000		2032278.27		A	1.2
7	☐	1.000		2048355.70		A	1.2
8	☐	1.000		1952116.20		A	2.7

115 In (ISTD) [No Gas]

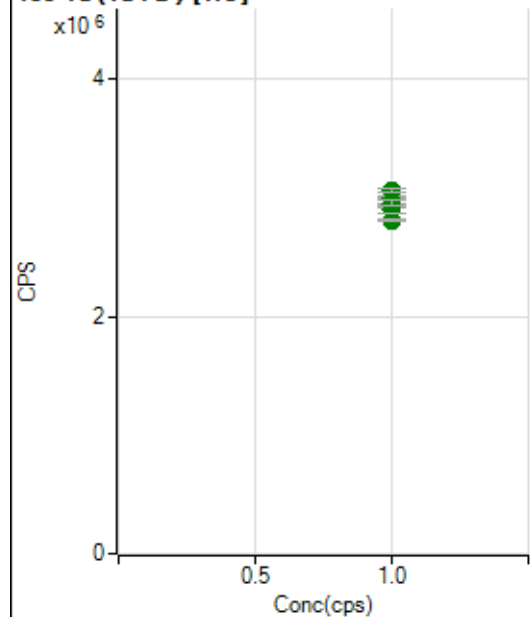
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3203306.97		A	1.6
2	☐	1.000		3286571.46		A	0.8
3	☐	1.000		3303461.28		A	1.4
4	☐	1.000		3268143.23		A	2.0
5	☐	1.000		3344647.78		A	2.4
6	☐	1.000		3277609.46		A	0.9
7	☐	1.000		3361518.78		A	0.2
8	☐	1.000		3184063.86		A	0.9

115 In (ISTD) [He]

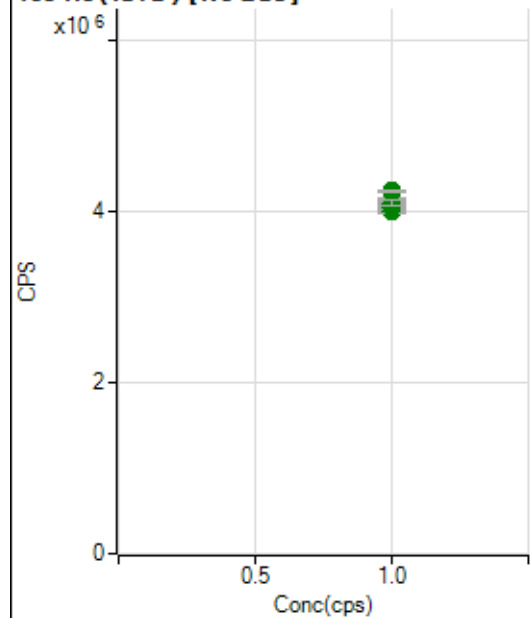
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1205734.32		P	0.5
2	☐	1.000		1252111.69		P	1.0
3	☐	1.000		1277061.21		P	0.2
4	☐	1.000		1268485.28		P	0.7
5	☐	1.000		1251801.89		P	0.8
6	☐	1.000		1239339.31		P	1.2
7	☐	1.000		1229473.08		P	0.6
8	☐	1.000		1230603.08		P	0.2

159 Tb (ISTD) [No Gas]

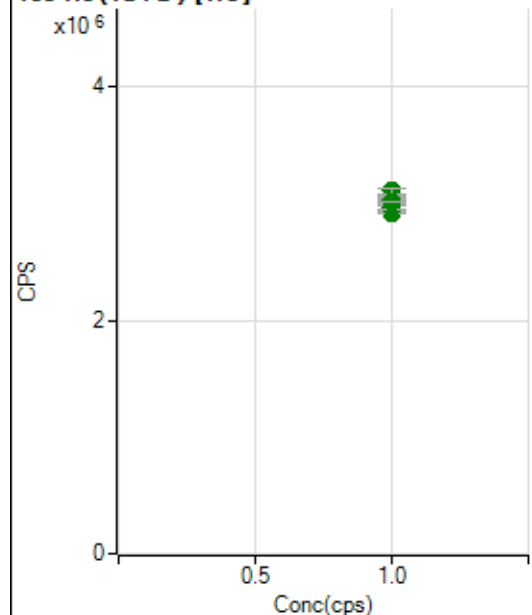
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3989655.57		A	0.6
2	☐	1.000		4074521.33		A	1.3
3	☐	1.000		4131509.49		A	0.3
4	☐	1.000		4149904.66		A	1.1
5	☐	1.000		4182645.60		A	1.2
6	☐	1.000		4172005.21		A	3.0
7	☐	1.000		4360995.73		A	1.4
8	☐	1.000		4125488.41		A	2.3

159 Tb (ISTD) [He]

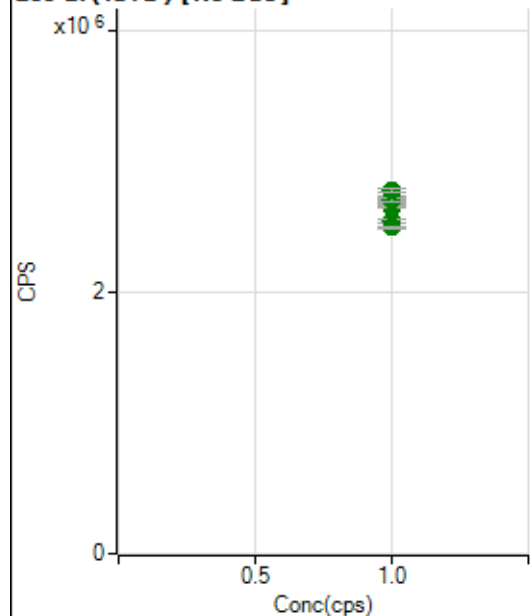
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2811661.66		A	0.4
2	☐	1.000		2908169.19		A	2.6
3	☐	1.000		2983152.00		A	0.5
4	☐	1.000		2949541.17		A	1.8
5	☐	1.000		2987883.81		A	0.9
6	☐	1.000		3002692.59		A	0.8
7	☐	1.000		3058591.76		A	1.0
8	☐	1.000		2955906.59		A	1.9

165 Ho (ISTD) [No Gas]

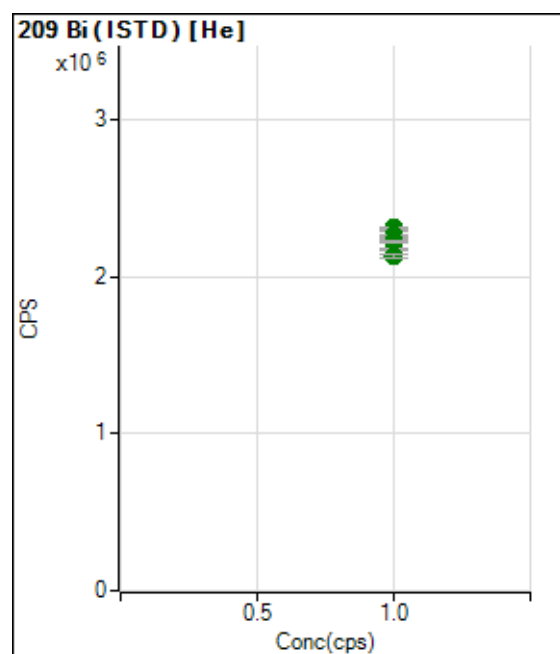
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3988881.89		A	0.9
2	☐	1.000		4008885.32		A	2.0
3	☐	1.000		4047824.63		A	1.1
4	☐	1.000		4076107.75		A	0.8
5	☐	1.000		4149887.93		A	0.1
6	☐	1.000		4128721.67		A	1.2
7	☐	1.000		4239198.10		A	0.6
8	☐	1.000		4099256.64		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2919708.15		A	0.6
2	☐	1.000		2969716.69		A	1.3
3	☐	1.000		3035464.99		A	0.8
4	☐	1.000		3019846.07		A	1.2
5	☐	1.000		3021301.21		A	1.3
6	☐	1.000		3028881.94		A	2.4
7	☐	1.000		3109238.81		A	1.3
8	☐	1.000		3019712.60		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2538619.56		A	1.2
2	☐	1.000		2648131.23		A	0.8
3	☐	1.000		2721550.51		A	3.3
4	☐	1.000		2699014.48		A	0.7
5	☐	1.000		2713371.83		A	1.5
6	☐	1.000		2703310.36		A	1.2
7	☐	1.000		2772137.57		A	1.2
8	☐	1.000		2490756.79		A	0.8



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2169735.26		A	0.6
2	☐	1.000		2260690.00		A	2.6
3	☐	1.000		2310562.27		A	0.7
4	☐	1.000		2250653.79		A	0.8
5	☐	1.000		2261358.34		A	0.7
6	☐	1.000		2233961.08		A	1.9
7	☐	1.000		2224009.81		A	0.5
8	☐	1.000		2135255.47		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7110425-MS1.b
Acq. Date-Time 2025-11-04 15:05:22
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		3583	35826.23			1.948	5.000
24		34767	347666.64			1.608	5.000
25		4601	46006.64			1.884	5.000
26		5453	54529.00			1.600	5.000
59		40440	404396.73			1.576	5.000
113		4864	48635.35			1.854	5.000
115		55826	558264.79			1.831	5.000
206		11197	111966.88			1.558	5.000
207		9791	97906.92			1.756	5.000
208		23576	235759.57			1.432	5.000
220		0	1.80			69.722	

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

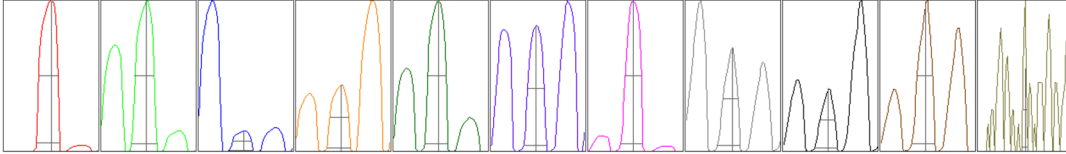
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3669	3621	3577	3482	3565
24	35134	34989	34879	33780	35051
25	4672	4661	4576	4461	4634
26	5520	5469	5521	5308	5446
59	40954	41058	40255	39469	40462
113	4951	4867	4867	4715	4917
115	56619	56111	56230	54035	56138
206	11403	11206	11191	10923	11260
207	9869	9794	9840	9500	9950
208	23807	23591	23699	22992	23791

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	6121.67	9.05	8.90 - 9.10	
24	60481.91	23.95	23.90 - 24.10	
25	8080.58	24.95	24.90 - 25.10	
26	9344.83	25.95	25.90 - 26.10	
59	72100.53	58.95	58.90 - 59.10	
113	9712.06	112.95	112.90 - 113.10	
115	111832.07	114.95	114.90 - 115.10	
206	24456.08	206.00	205.90 - 206.10	
207	21127.81	206.95	206.90 - 207.10	
208	51012.34	207.95	207.90 - 208.10	
220	0.30	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.739	0.900	
24	0.61	0.810	0.900	
25	0.61	0.742	0.900	
26	0.62	0.743	0.900	
59	0.60	0.737	0.900	
113	0.51	0.728	0.900	
115	0.51	0.709	0.900	
206	0.48	0.727	0.900	
207	0.47	0.729	0.900	
208	0.49	0.741	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	7.6 V	Deflect	14.4 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	190 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9975	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-2.0 mm	Torch V	1.1 mm
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EM

Discriminator	4.8 mV	Analog HV	2290 V	Pulse HV	1228 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13946	139455.56			1.003	
89		36407	364067.11			1.018	
205		12794	127944.44			1.461	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13722	13912	14086	13992	14016
89	35870	36230	36445	36743	36746
205	13032	12958	12629	12653	12700

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.6 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-160.0 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	139	Axis Gain	0.9975	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.11		
Hardware Settings					
Torch					
Torch H	-2.0 mm	Torch V	1.1 mm		
EM					
Discriminator	4.8 mV	Analog HV	2290 V	Pulse HV	1228 V