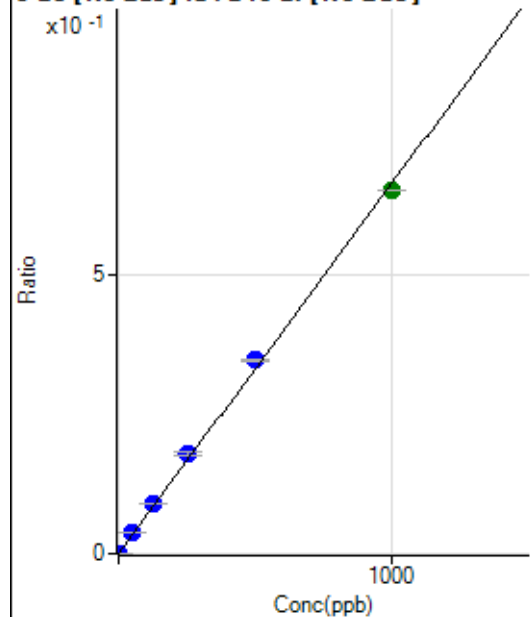


Calibration for 104SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7092223MS.b\
 Analysis File: P7092223MS.batch.bin
 DA Date-Time: 2023-09-22 19:25:03
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-09-22 13:55:20
2	005CALS.d	S02	2023-09-22 13:58:36
3	006CALS.d	S03	2023-09-22 14:01:53
4	007CALS.d	S04	2023-09-22 14:04:56
5	008CALS.d	S05	2023-09-22 14:07:51
6	009CALS.d	S06	2023-09-22 14:10:39
7	010CALS.d	S07	2023-09-22 14:13:26
8	011CALS.d	S08	2023-09-22 14:16:11

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	106.67	0.0000	P	14.6
2	☐	1.000	1.108	2087.94	0.0008	P	5.6
3	☐	50.000	55.025	97993.97	0.0366	P	1.2
4	☐	125.000	134.494	235219.53	0.0895	P	1.5
5	☐	250.000	271.811	461742.88	0.1809	P	3.2
6	☐	500.000	524.342	890654.17	0.3489	P	0.7
7	☐	1000.000	980.938	1646226.31	0.6526	A	0.0
8	☐			803.36	0.0003	P	12.0

$$y = 6.6524\text{E-}004 * x + 4.0104\text{E-}005$$

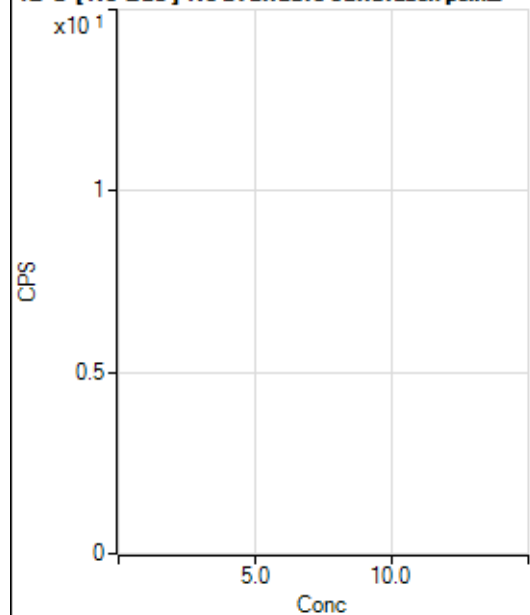
$$R = 0.9993$$

$$DL = 0.02648$$

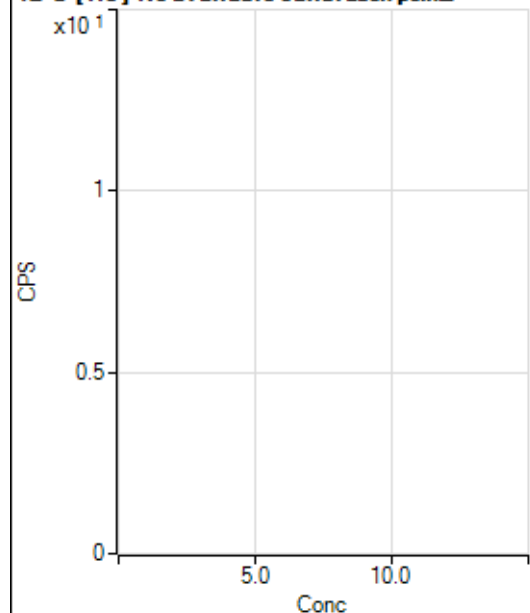
$$BEC = 0.06029$$

Weight: <None>

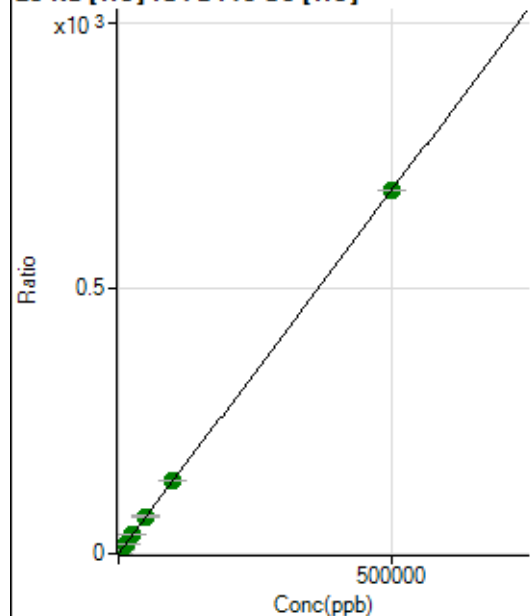
Min Conc: 0

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	15804.87	0.0346	P	3.8
2	☐	500.000	496.939	325601.64	0.7152	P	0.8
3	☐	5000.000	5126.441	3203680.16	7.0560	A	0.6
4	☐	12500.000	12888.178	7711209.12	17.6869	A	0.7
5	☐	25000.000	25870.184	15139797.27	35.4677	A	1.5
6	☐	50000.000	51564.416	30137052.89	70.6599	A	1.3
7	☐	100000.00	100711.81	59530396.89	137.9747	A	0.7
8	☐	500000.00	499646.72	273493307.0	684.3764	A	0.1

$$y = 0.0014 * x + 0.0346$$

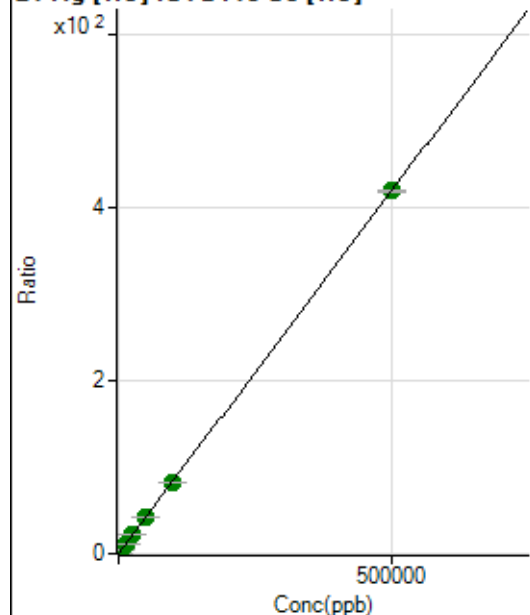
$$R = 1.0000$$

$$DL = 2.854$$

$$BEC = 25.26$$

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	1163.39	0.0025	P	5.2
2	☐	500.000	496.900	191081.10	0.4197	P	0.1
3	☐	5000.000	5191.134	1979767.44	4.3608	A	1.6
4	☐	12500.000	12873.408	4713000.62	10.8105	A	1.0
5	☐	25000.000	25900.441	9283022.98	21.7474	A	1.8
6	☐	50000.000	51123.262	18306983.06	42.9234	A	1.7
7	☐	100000.00	98962.915	35849611.69	83.0874	A	0.3
8	☐	500000.00	500038.82	167769424.1	419.8130	A	0.2

$$y = 8.3956E-004 * x + 0.0025$$

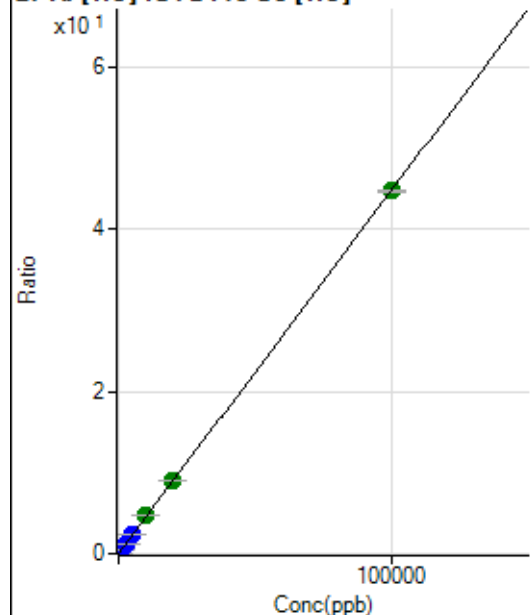
$$R = 1.0000$$

$$DL = 0.4773$$

$$BEC = 3.034$$

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	317.78	0.0007	P	6.2
2	☐	20.000	22.527	4913.05	0.0108	P	0.7
3	☐	1000.000	1091.149	222345.91	0.4897	P	0.8
4	☐	2500.000	2731.365	533996.81	1.2249	P	1.1
5	☐	5000.000	5435.664	1040222.97	2.4369	P	1.7
6	☐	10000.000	10515.112	2010152.94	4.7134	A	2.9
7	☐	20000.000	20287.734	3923431.99	9.0934	A	0.8
8	☐	100000.00	99862.463	17886121.54	44.7577	A	0.6

$$y = 4.4819E-004 * x + 6.9583E-004$$

$$R = 1.0000$$

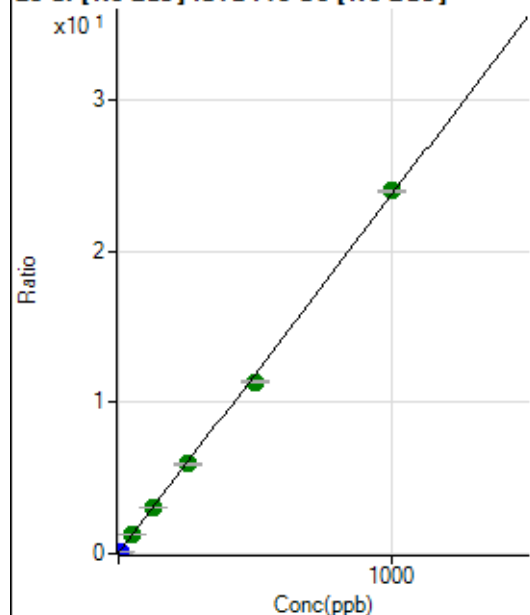
$$DL = 0.2878$$

$$BEC = 1.553$$

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	298316.13	0.0530	P	1.3
2	☐	10.000	0.574	374688.55	0.0666	P	1.7
3	☐	50.000	50.721	6960450.45	1.2544	A	0.7
4	☐	125.000	126.129	16115321.29	3.0405	A	0.4
5	☐	250.000	248.303	31076634.54	5.9343	A	3.1
6	☐	500.000	478.255	59784159.66	11.3810	A	1.6
7	☐	1000.000	1011.214	126331169.2	24.0048	A	0.8
8	☐			565880.05	0.1120	P	2.7

$$y = 0.0237 * x + 0.0530$$

$$R = 0.9996$$

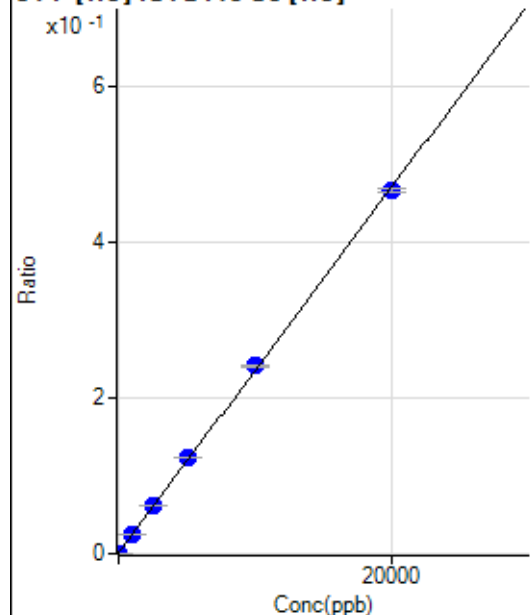
$$DL = 0.08592$$

$$BEC = 2.238$$

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	-8.943	300.01	0.0007	P	2.7
2	☐	0.000	8.943	490.01	0.0011	P	9.0
3	☐	1000.000	1015.600	11223.09	0.0247	P	2.6
4	☐	2500.000	2589.618	26899.27	0.0617	P	2.1
5	☐	5000.000	5224.776	52759.40	0.1236	P	1.9
6	☐	10000.000	10252.537	103091.76	0.2417	P	0.7
7	☐	20000.000	19805.555	201102.16	0.4661	P	1.1
8	☐			374.45	0.0009	P	13.2

$$y = 2.3490E-005 * x + 8.6679E-004$$

$$R = 0.9998$$

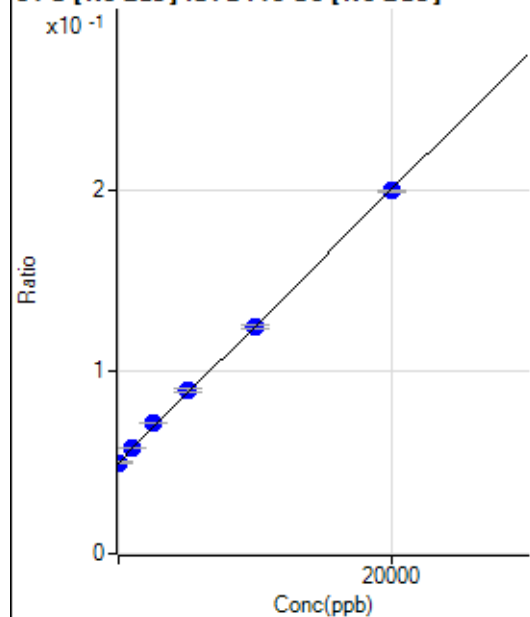
$$DL = 7.321$$

$$BEC = 36.9$$

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	1.236	282477.56	0.0502	P	0.5
2	☐	0.000	-1.236	282288.50	0.0502	P	1.4
3	☐	1000.000	1076.062	323336.42	0.0583	P	1.2
4	☐	2500.000	2860.882	379886.02	0.0717	P	0.2
5	☐	5000.000	5320.061	472143.53	0.0901	P	2.2
6	☐	10000.000	9971.114	656979.26	0.1251	P	1.8
7	☐	20000.000	19885.515	1050047.74	0.1995	P	0.5
8	☐			240076.05	0.0475	P	3.4

$$y = 7.5098E-006 * x + 0.0502$$

$$R = 0.9997$$

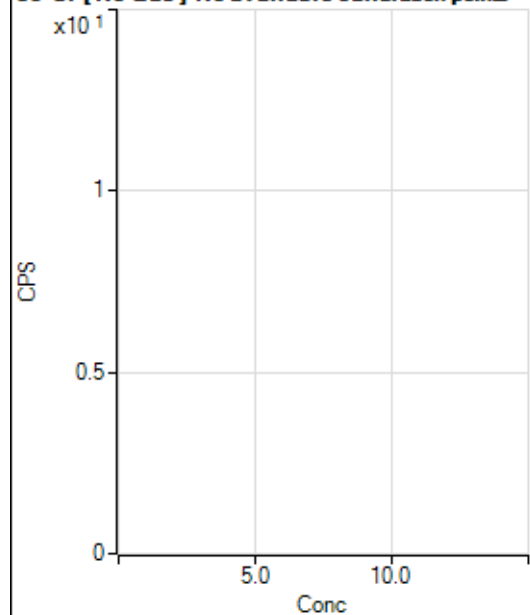
$$DL = 182.3$$

$$BEC = 6683$$

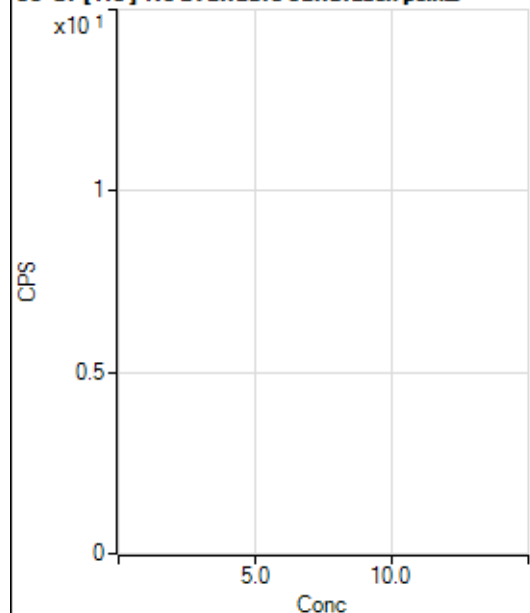
Weight: <None>

Min Conc: 0

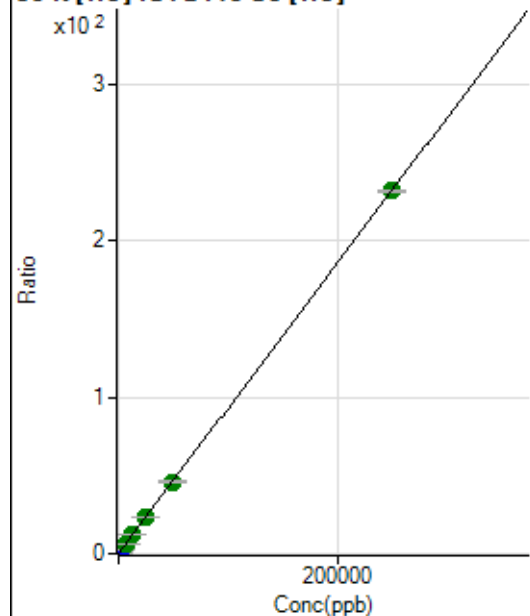
35 Cl [No Gas] No available calibration points



	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	68644.87	0.1503	P	0.5
2	☐	500.000	504.583	280963.51	0.6172	P	0.6
3	☐	2500.000	2717.604	1209931.85	2.6650	P	0.3
4	☐	6250.000	6395.827	2645938.33	6.0688	A	0.6
5	☐	12500.000	12666.943	5067552.01	11.8719	A	2.0
6	☐	25000.000	25158.627	9994627.28	23.4313	A	1.1
7	☐	50000.000	49438.662	19804431.51	45.8994	A	0.9
8	☐	250000.00	250082.22	92539055.29	231.5691	A	0.4

$$y = 9.2537E-004 * x + 0.1503$$

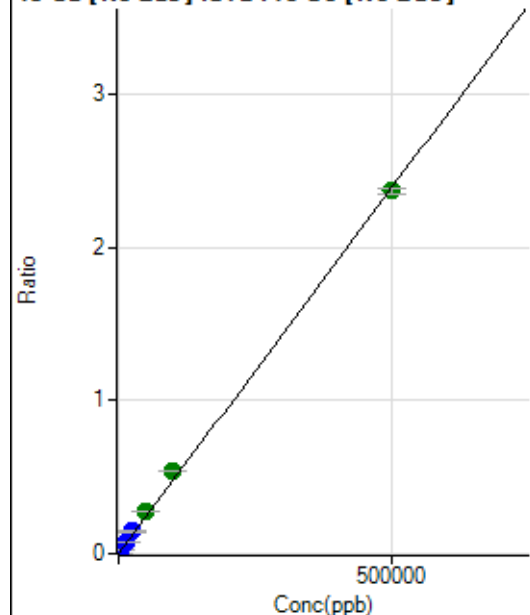
$$R = 1.0000$$

$$DL = 2.333$$

$$BEC = 162.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	895.59	0.0002	P	8.1
2	☐	500.000	496.313	14234.55	0.0025	P	1.4
3	☐	5000.000	6094.462	162449.98	0.0293	P	0.6
4	☐	12500.000	15306.599	388443.28	0.0733	P	0.7
5	☐	25000.000	30339.262	759864.23	0.1451	P	3.3
6	☐	50000.000	57485.137	1443638.43	0.2748	A	1.3
7	☐	100000.00	113015.45	2842402.84	0.5401	A	2.0
8	☐	500000.00	496300.32	11984882.74	2.3713	A	1.5

$$y = 4.7776\text{E-}006 * x + 1.5916\text{E-}004$$

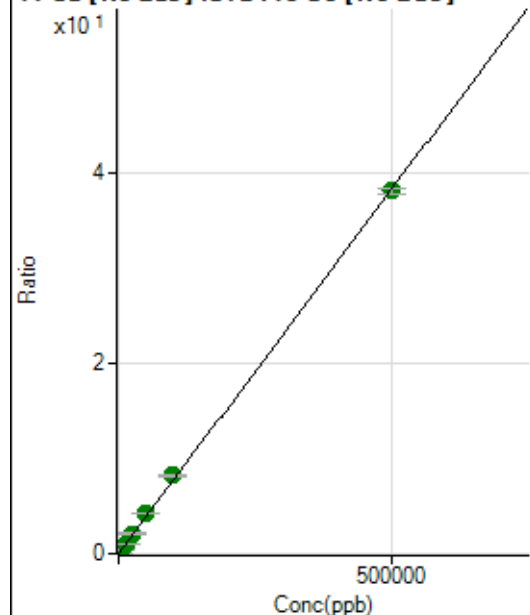
$$R = 0.9996$$

$$DL = 8.098$$

$$BEC = 33.31$$

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	20293.68	0.0036	P	1.1
2	☐	500.000	497.833	234864.37	0.0418	P	1.9
3	☐	5000.000	5519.126	2366552.05	0.4265	A	1.1
4	☐	12500.000	13828.081	5634943.18	1.0632	A	0.3
5	☐	25000.000	27473.345	11041592.20	2.1087	A	3.4
6	☐	50000.000	54197.425	21836199.12	4.1564	A	0.4
7	☐	100000.00	107125.45	43216812.69	8.2119	A	1.0
8	☐	500000.00	497993.10	192876972.6	38.1616	A	1.3

$$y = 7.6624\text{E-}005 * x + 0.0036$$

$$R = 0.9999$$

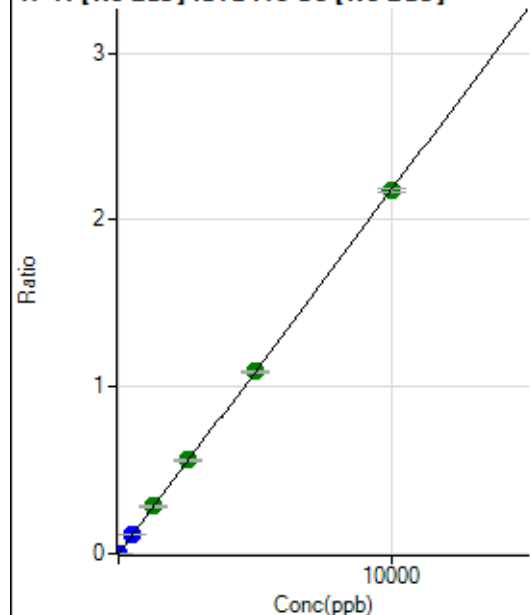
$$DL = 1.526$$

$$BEC = 47.06$$

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	141.12	0.0000	P	14.6
2	☐	5.000	5.066	6352.49	0.0011	P	4.1
3	☐	500.000	515.282	623412.47	0.1124	P	0.7
4	☐	1250.000	1296.468	1498049.74	0.2826	A	0.8
5	☐	2500.000	2563.951	2926759.26	0.5589	A	3.3
6	☐	5000.000	5006.805	5733902.76	1.0915	A	1.0
7	☐	10000.000	9974.037	11442435.52	2.1743	A	1.2
8	☐			2462.46	0.0005	P	24.2

$$y = 2.1799\text{E-}004 * x + 2.5067\text{E-}005$$

$$R = 1.0000$$

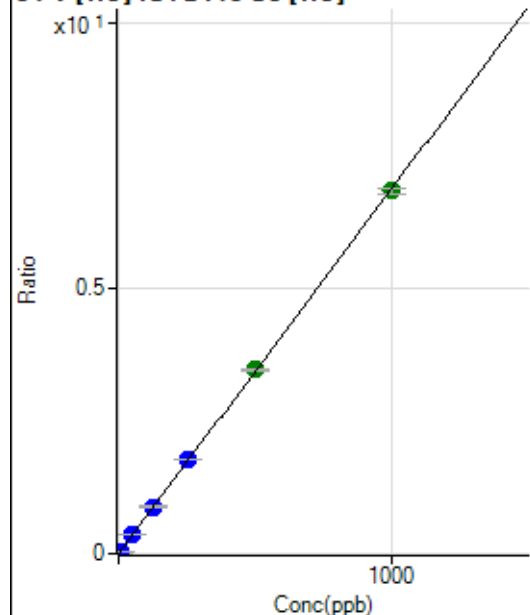
$$DL = 0.05042$$

$$BEC = 0.115$$

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	8.89	0.0000	P	43.0
2	☐	5.000	4.839	15162.17	0.0333	P	3.0
3	☐	50.000	50.790	158626.00	0.3494	P	1.1
4	☐	125.000	129.055	387067.04	0.8878	P	0.9
5	☐	250.000	258.791	759977.65	1.7803	P	0.7
6	☐	500.000	504.754	1481049.46	3.4724	A	0.9
7	☐	1000.000	994.880	2952881.03	6.8441	A	1.3
8	☐			874.48	0.0022	P	6.1

$$y = 0.0069 * x + 1.9448\text{E-}005$$

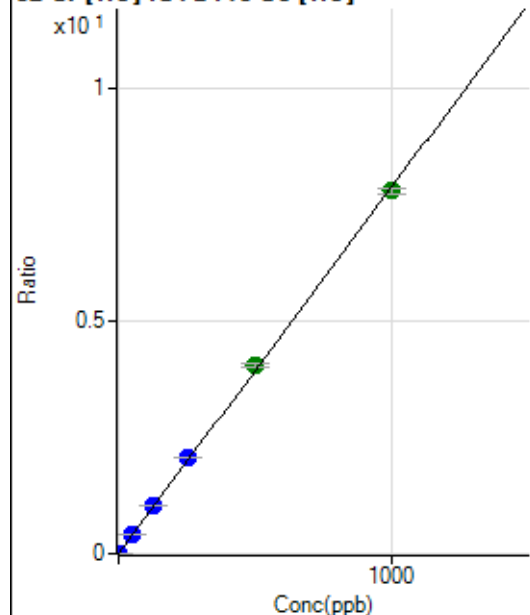
$$R = 0.9999$$

$$DL = 0.00365$$

$$BEC = 0.002827$$

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	1111.16	0.0024	P	4.6
2	☐	2.000	2.112	8681.46	0.0191	P	0.7
3	☐	50.000	51.731	186150.60	0.4100	P	0.6
4	☐	125.000	130.848	450544.40	1.0334	P	0.5
5	☐	250.000	261.039	879029.71	2.0592	P	0.8
6	☐	500.000	512.554	1723421.16	4.0410	A	2.4
7	☐	1000.000	990.145	3366993.04	7.8040	A	1.6
8	☐			11687.97	0.0292	P	0.7

$$y = 0.0079 * x + 0.0024$$

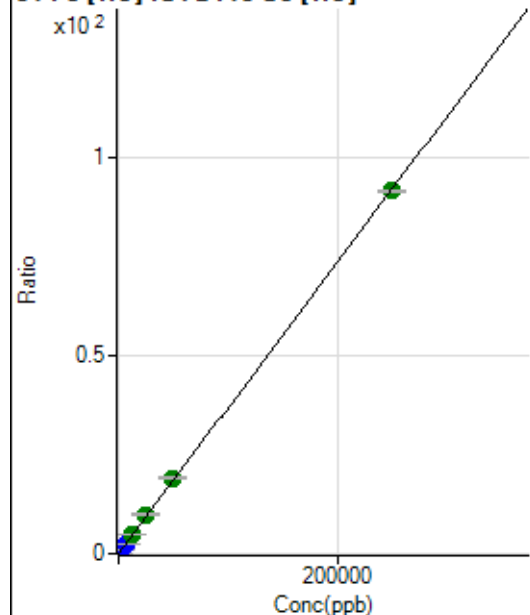
$$R = 0.9998$$

$$DL = 0.04231$$

$$BEC = 0.3087$$

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	2145.73	0.0047	P	2.3
2	☐	50.000	55.630	11446.65	0.0251	P	2.7
3	☐	2500.000	2856.070	478791.27	1.0547	P	0.9
4	☐	6250.000	7170.265	1151252.51	2.6407	P	0.8
5	☐	12500.000	13592.702	2135129.31	5.0017	A	0.5
6	☐	25000.000	26993.795	4234056.78	9.9282	A	3.3
7	☐	50000.000	51953.825	8242600.99	19.1041	A	1.5
8	☐	250000.00	249328.65	36631791.40	91.6637	A	0.5

$$y = 3.6762E-004 * x + 0.0047$$

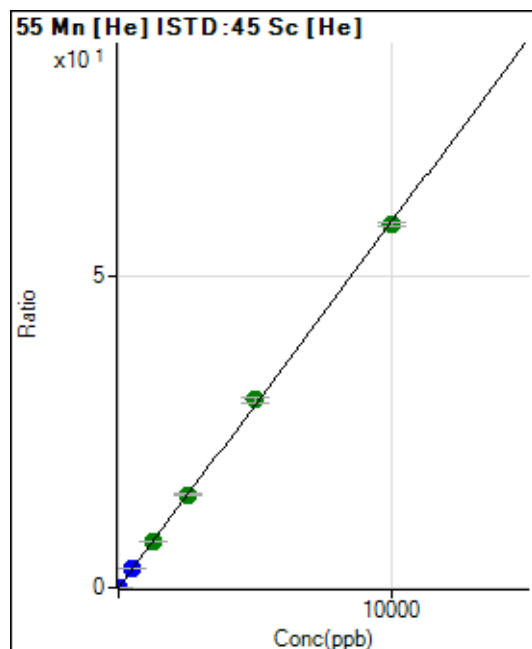
$$R = 0.9999$$

$$DL = 0.8968$$

$$BEC = 12.78$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	262.23	0.0006	P	11.0
2	☐	1.000	1.082	3148.13	0.0069	P	1.4
3	☐	500.000	519.840	1383783.25	3.0481	P	0.8
4	☐	1250.000	1272.803	3253368.53	7.4623	A	0.4
5	☐	2500.000	2544.459	6367588.59	14.9173	A	1.6
6	☐	5000.000	5131.419	12829581.62	30.0831	A	3.0
7	☐	10000.000	9919.334	25089552.40	58.1518	A	1.2
8	☐			16186.56	0.0405	P	2.3

$$y = 0.0059 * x + 5.7410E-004$$

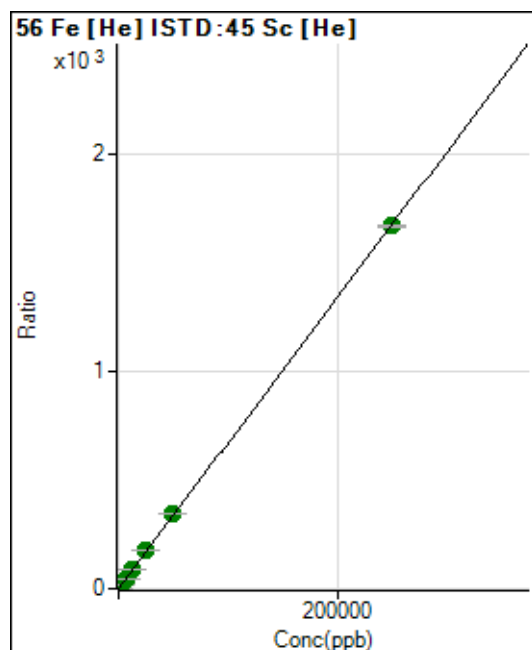
$$R = 0.9999$$

$$DL = 0.03224$$

$$BEC = 0.09793$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17649.31	0.0386	P	1.9
2	☐	50.000	53.234	179599.80	0.3945	P	0.8
3	☐	2500.000	2624.692	7983513.98	17.5859	A	1.1
4	☐	6250.000	6672.297	19464401.65	44.6459	A	1.0
5	☐	12500.000	13290.549	37944769.99	88.8918	A	1.5
6	☐	25000.000	26561.774	75748624.99	177.6159	A	2.9
7	☐	50000.000	51425.876	148354810.0	343.8434	A	0.6
8	☐	250000.00	249507.31	666603310.0	1.668.105	A	0.7

$$y = 0.0067 * x + 0.0386$$

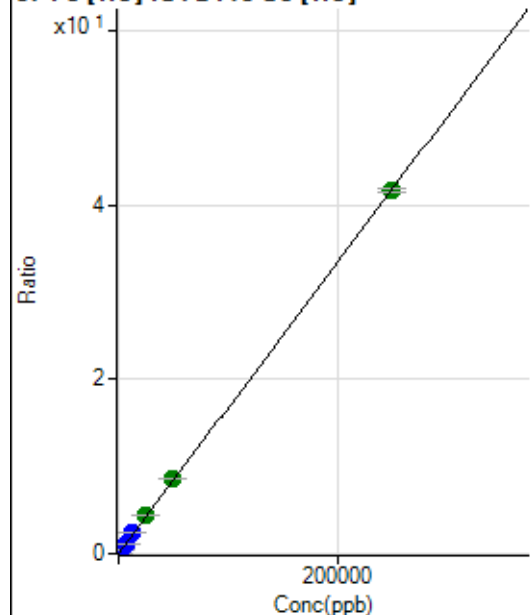
$$R = 1.0000$$

$$DL = 0.322$$

$$BEC = 5.778$$

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	987.82	0.0022	P	7.6
2	☐	50.000	56.415	5273.19	0.0116	P	1.7
3	☐	2500.000	2796.426	213022.02	0.4692	P	0.9
4	☐	6250.000	7101.742	518056.16	1.1883	P	1.5
5	☐	12500.000	14140.541	1009104.31	2.3640	P	1.2
6	☐	25000.000	26473.458	1886688.65	4.4238	A	2.6
7	☐	50000.000	51001.728	3676382.72	8.5206	A	0.2
8	☐	250000.00	249546.02	16656506.14	41.6822	A	0.9

$$y = 1.6702E-004 * x + 0.0022$$

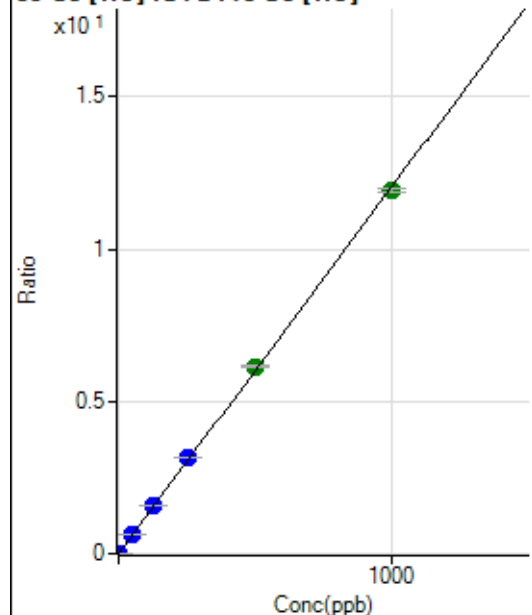
R = 1.0000

DL = 2.945

BEC = 12.94

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	73.33	0.0002	P	26.8
2	☐	1.000	1.006	5583.31	0.0123	P	2.1
3	☐	50.000	52.803	288629.18	0.6358	P	0.4
4	☐	125.000	132.963	697842.31	1.6006	P	0.5
5	☐	250.000	263.211	1352536.33	3.1685	P	0.8
6	☐	500.000	511.364	2625466.99	6.1555	A	0.6
7	☐	1000.000	989.880	5140980.41	11.9154	A	1.2
8	☐			14233.50	0.0356	P	1.3

$$y = 0.0120 * x + 1.6041E-004$$

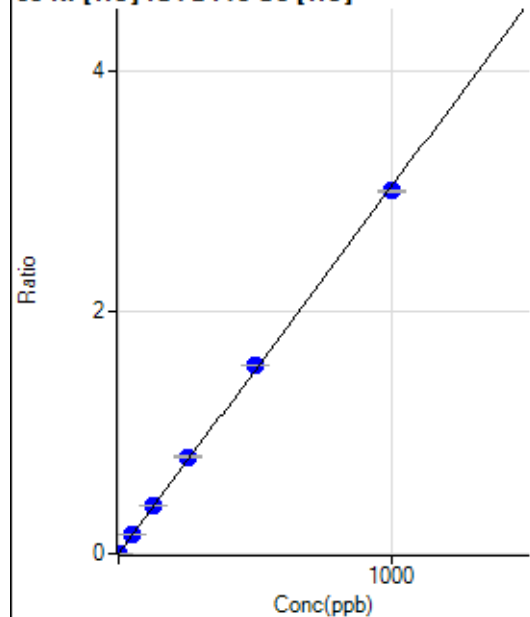
R = 0.9998

DL = 0.01072

BEC = 0.01333

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	214.45	0.0005	P	16.3
2	☐	1.000	1.127	1771.23	0.0039	P	6.8
3	☐	50.000	53.217	73625.04	0.1622	P	0.5
4	☐	125.000	133.072	176486.59	0.4048	P	0.2
5	☐	250.000	263.411	341848.48	0.8008	P	1.1
6	☐	500.000	514.281	666729.01	1.5631	P	0.6
7	☐	1000.000	988.337	1295880.67	3.0035	P	0.5
8	☐			5128.71	0.0128	P	1.8

$$y = 0.0030 * x + 4.6901E-004$$

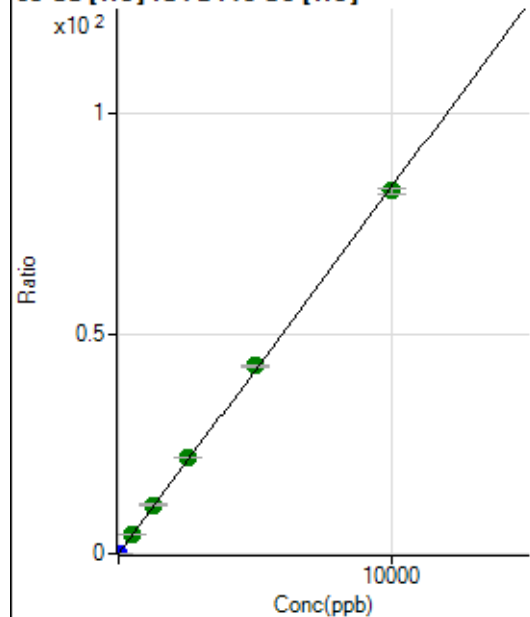
$$R = 0.9997$$

$$DL = 0.07561$$

$$BEC = 0.1544$$

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	1222.28	0.0027	P	4.3
2	☐	2.000	2.054	9010.57	0.0198	P	2.0
3	☐	500.000	525.230	1988012.21	4.3791	A	0.9
4	☐	1250.000	1334.266	4848239.55	11.1202	A	0.7
5	☐	2500.000	2630.195	9356211.60	21.9184	A	1.3
6	☐	5000.000	5128.308	18228105.70	42.7335	A	0.8
7	☐	10000.000	9891.502	35560965.86	82.4221	A	1.4
8	☐			11313.26	0.0283	P	0.8

$$y = 0.0083 * x + 0.0027$$

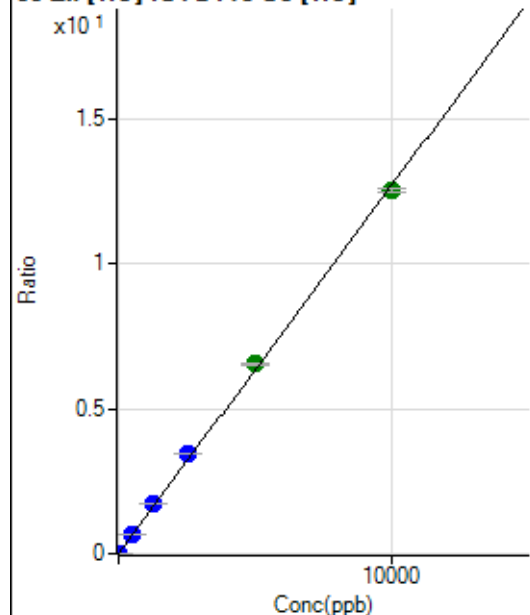
$$R = 0.9998$$

$$DL = 0.04186$$

$$BEC = 0.3211$$

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	480.01	0.0011	P	6.8
2	☐	2.000	2.399	1865.69	0.0041	P	2.4
3	☐	500.000	538.031	310781.42	0.6846	P	0.8
4	☐	1250.000	1357.816	752504.74	1.7260	P	0.6
5	☐	2500.000	2701.822	1465654.96	3.4335	P	0.7
6	☐	5000.000	5156.220	2794417.04	6.5515	A	0.6
7	☐	10000.000	9856.056	5402755.47	12.5222	A	1.0
8	☐			7255.15	0.0182	P	3.8

$$y = 0.0013 * x + 0.0011$$

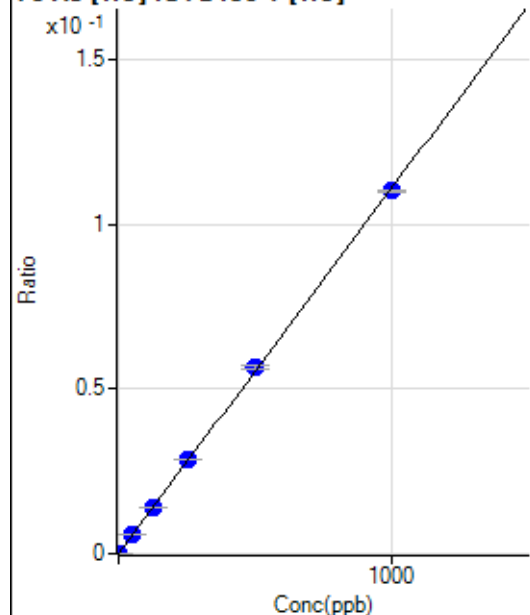
$$R = 0.9996$$

$$DL = 0.1679$$

$$BEC = 0.8268$$

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	2.22	0.0000	P	86.6
2	☐	1.000	1.041	421.12	0.0001	P	4.6
3	☐	50.000	51.165	20370.71	0.0057	P	1.0
4	☐	125.000	127.466	49549.06	0.0142	P	1.1
5	☐	250.000	258.036	97711.96	0.0287	P	1.3
6	☐	500.000	509.115	194965.23	0.0566	P	2.3
7	☐	1000.000	993.067	380177.68	0.1103	P	0.3
8	☐			154.45	0.0000	P	16.8

$$y = 1.1110E-004 * x + 6.1829E-007$$

$$R = 0.9999$$

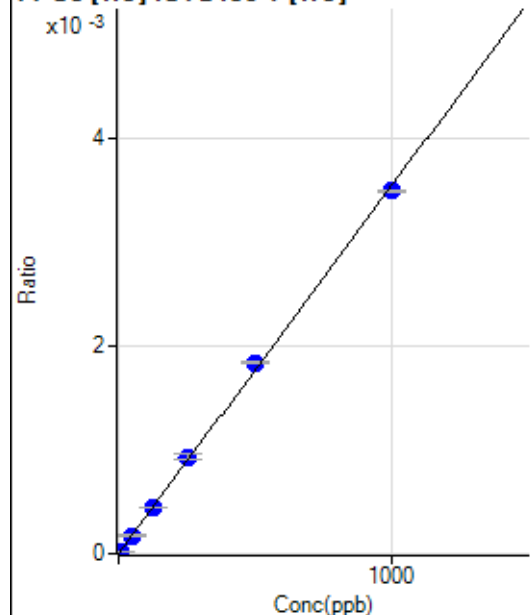
$$DL = 0.01446$$

$$BEC = 0.005565$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.371	68.89	0.0000	P	16.5
3	☐	50.000	49.496	628.91	0.0002	P	7.5
4	☐	125.000	126.083	1564.54	0.0004	P	2.4
5	☐	250.000	262.680	3174.81	0.0009	P	6.2
6	☐	500.000	520.291	6361.42	0.0018	P	1.5
7	☐	1000.000	986.573	12057.23	0.0035	P	0.4
8	☐			47.78	0.0000	P	18.2

$$y = 3.5467\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

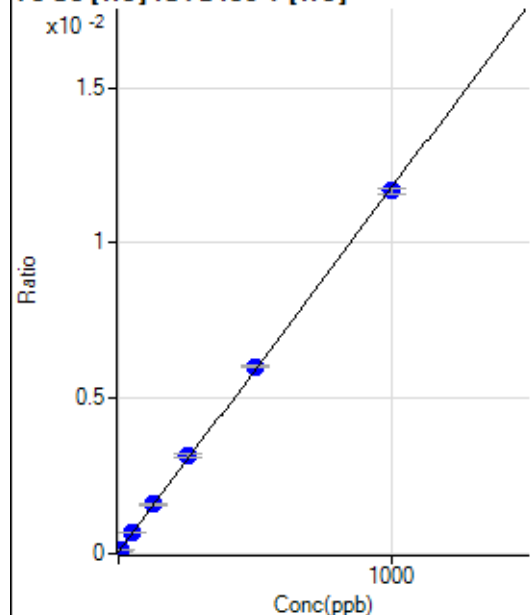
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	217.78	0.0001	P	16.4
2	☐	5.000	5.402	448.90	0.0001	P	5.3
3	☐	50.000	52.418	2418.00	0.0007	P	2.7
4	☐	125.000	130.989	5581.12	0.0016	P	2.6
5	☐	250.000	264.193	10755.11	0.0032	P	2.7
6	☐	500.000	508.526	20746.83	0.0060	P	1.3
7	☐	1000.000	991.317	40221.11	0.0117	P	1.9
8	☐			390.01	0.0001	P	9.7

$$y = 1.1714\text{E-}005 * x + 6.0707\text{E-}005$$

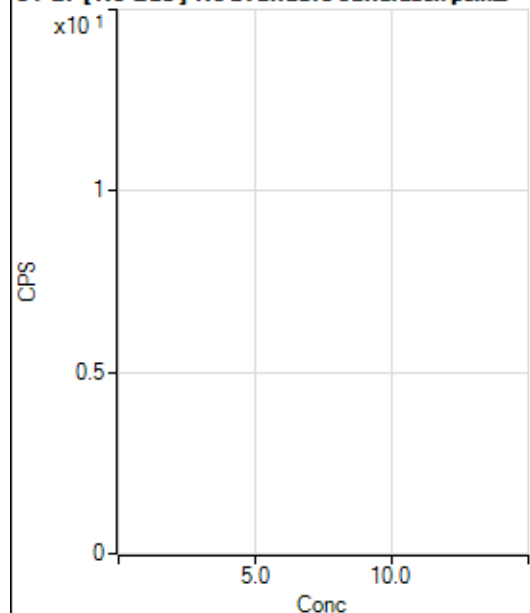
$$R = 0.9998$$

$$DL = 2.551$$

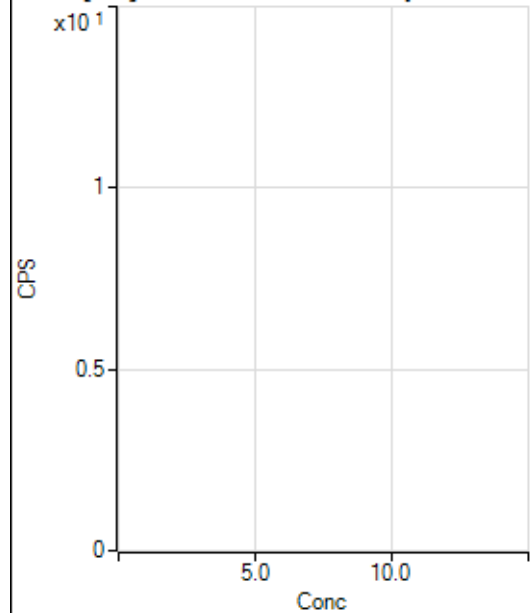
$$BEC = 5.182$$

Weight: <None>

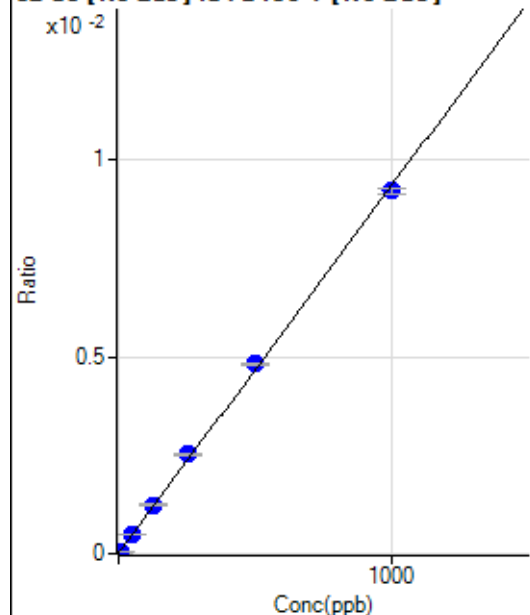
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30755.49		P	1.1
2	☐			30693.19		P	1.7
3	☐			29907.15		P	0.9
4	☐			28573.39		P	1.3
5	☐			28188.19		P	3.5
6	☐			27662.80		P	1.0
7	☐			28523.24		P	0.9
8	☐			30989.34		P	3.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			185.56		P	11.7
2	☐			190.00		P	8.8
3	☐			157.78		P	11.6
4	☐			113.33		P	13.5
5	☐			86.67		P	13.9
6	☐			111.11		P	13.5
7	☐			108.89		P	14.1
8	☐			626.68		P	2.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.75	0.0000	P	21.9
2	☐	5.000	4.829	855.10	0.0001	P	5.3
3	☐	50.000	52.966	8124.10	0.0005	P	2.2
4	☐	125.000	132.505	19668.74	0.0012	P	0.9
5	☐	250.000	269.378	39060.78	0.0025	P	2.5
6	☐	500.000	516.120	75987.28	0.0048	P	0.7
7	☐	1000.000	986.010	146879.13	0.0092	P	1.3
8	☐			1015.85	0.0001	P	9.2

$$y = 9.3286E-006 * x + 7.5842E-006$$

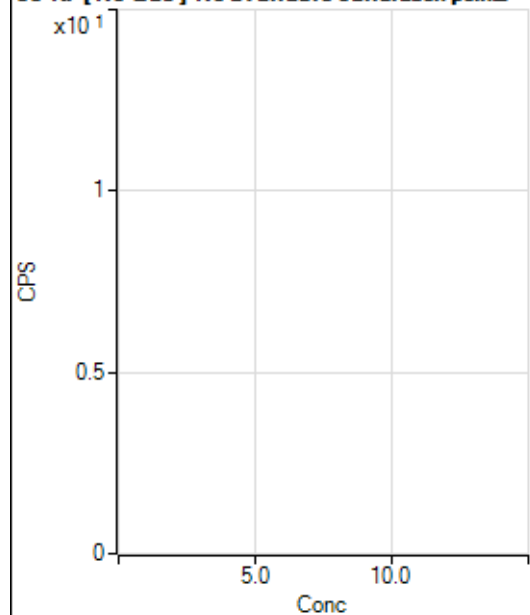
$$R = 0.9996$$

$$DL = 0.534$$

$$BEC = 0.813$$

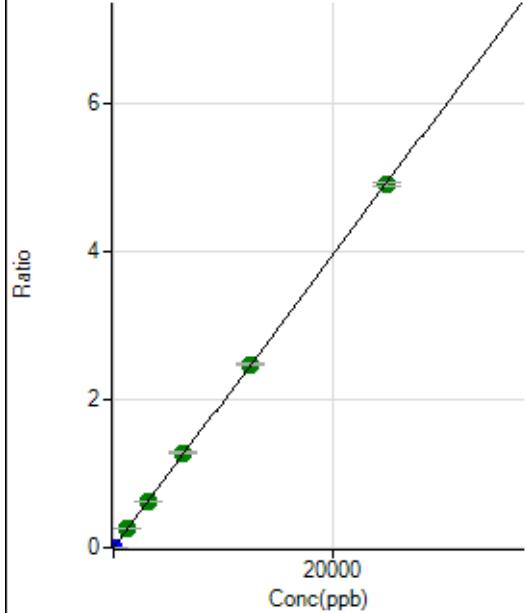
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			143.34		P	8.1
2	☐			173.34		P	21.4
3	☐			158.89		P	14.0
4	☐			147.78		P	18.2
5	☐			152.23		P	12.5
6	☐			158.89		P	18.8
7	☐			173.33		P	6.7
8	☐			186.67		P	17.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	278.89	0.0000	P	12.8
2	☐	1.000	0.990	3444.89	0.0002	P	1.0
3	☐	1250.000	1288.153	4105792.99	0.2536	A	0.3
4	☐	3125.000	3201.307	9965339.71	0.6301	A	0.8
5	☐	6250.000	6479.136	19763303.73	1.2753	A	2.4
6	☐	12500.000	12594.016	39061191.36	2.4788	A	0.7
7	☐	25000.000	24884.262	78144857.17	4.8978	A	1.0
8	☐			14945.99	0.0010	P	28.7

$$y = 1.9682E-004 * x + 1.7107E-005$$

$$R = 0.9999$$

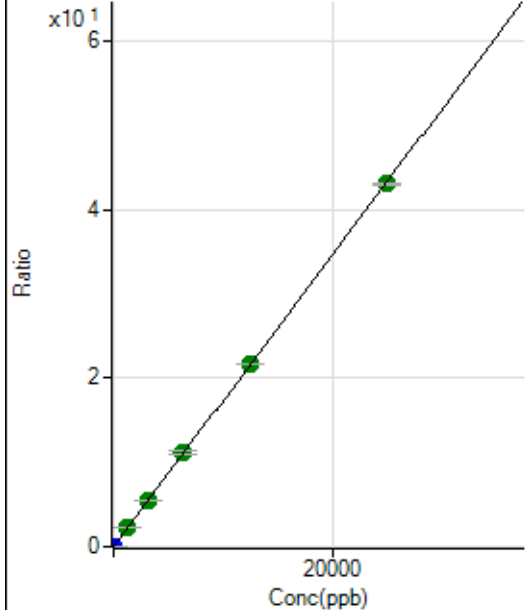
$$DL = 0.03333$$

$$BEC = 0.08692$$

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	235.56	0.0000	P	14.8
2	☐	1.000	0.961	27181.87	0.0017	P	1.5
3	☐	1250.000	1271.134	35538486.69	2.1947	A	0.8
4	☐	3125.000	3168.882	86531008.71	5.4713	A	0.4
5	☐	6250.000	6464.071	172936035.2	11.1607	A	3.2
6	☐	12500.000	12554.321	341566610.4	21.6759	A	0.2
7	☐	25000.000	24912.780	686286932.0	43.0136	A	0.6
8	☐			126795.95	0.0086	P	27.4

$$y = 0.0017 * x + 1.4444E-005$$

$$R = 1.0000$$

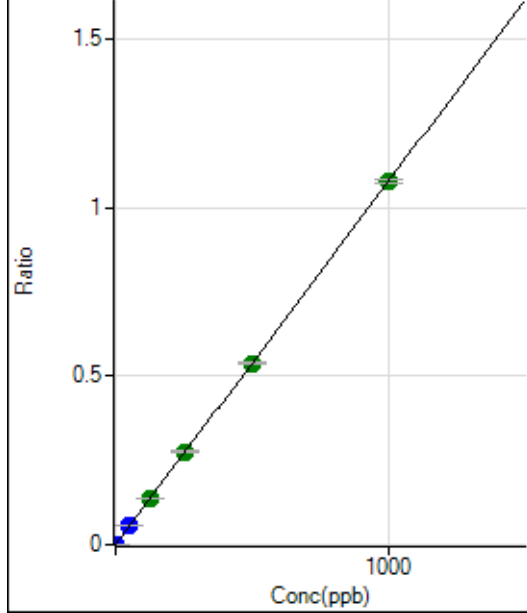
$$DL = 0.003717$$

$$BEC = 0.008366$$

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	611.13	0.0000	P	7.4
2	☐	1.000	0.882	16074.45	0.0010	P	2.3
3	☐	50.000	50.949	890890.66	0.0550	P	0.6
4	☐	125.000	128.060	2186059.36	0.1382	A	1.6
5	☐	250.000	255.814	4279755.45	0.2761	A	1.1
6	☐	500.000	499.631	8496908.97	0.5392	A	0.5
7	☐	1000.000	998.301	17189203.63	1.0773	A	1.0
8	☐			8483.67	0.0006	P	10.1

$$y = 0.0011 * x + 3.7479E-005$$

$$R = 1.0000$$

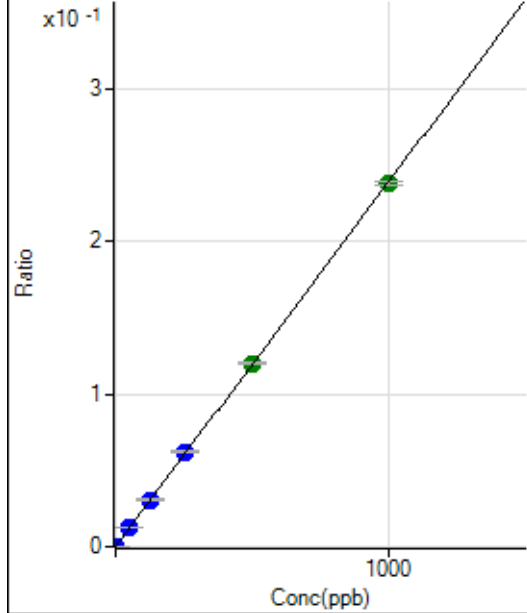
$$DL = 0.007725$$

$$BEC = 0.03473$$

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	123.33	0.0000	P	16.5
2	☐	1.000	0.862	3471.56	0.0002	P	5.0
3	☐	50.000	51.083	197916.32	0.0122	P	0.7
4	☐	125.000	129.052	488167.50	0.0309	P	0.8
5	☐	250.000	260.482	965494.29	0.0623	P	2.0
6	☐	500.000	503.575	1897625.51	0.1204	A	0.6
7	☐	1000.000	995.031	3796473.66	0.2379	A	1.1
8	☐			1885.70	0.0001	P	3.5

$$y = 2.3913E-004 * x + 7.5603E-006$$

$$R = 0.9999$$

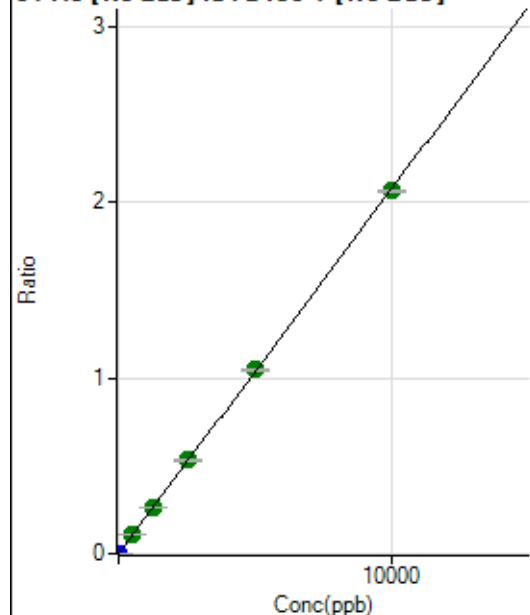
$$DL = 0.0156$$

$$BEC = 0.03162$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	230.00	0.0000	P	8.4
2	☐	5.000	5.555	18951.24	0.0012	P	0.4
3	☐	500.000	513.023	1723705.70	0.1064	A	0.3
4	☐	1250.000	1277.414	4191644.00	0.2650	A	0.3
5	☐	2500.000	2577.071	8286013.28	0.5347	A	2.4
6	☐	5000.000	5053.414	16520420.87	1.0484	A	0.7
7	☐	10000.000	9949.947	32936035.06	2.0643	A	0.5
8	☐			10392.76	0.0007	P	17.5

$$y = 2.0747\text{E-}004 * x + 1.4104\text{E-}005$$

$$R = 0.9999$$

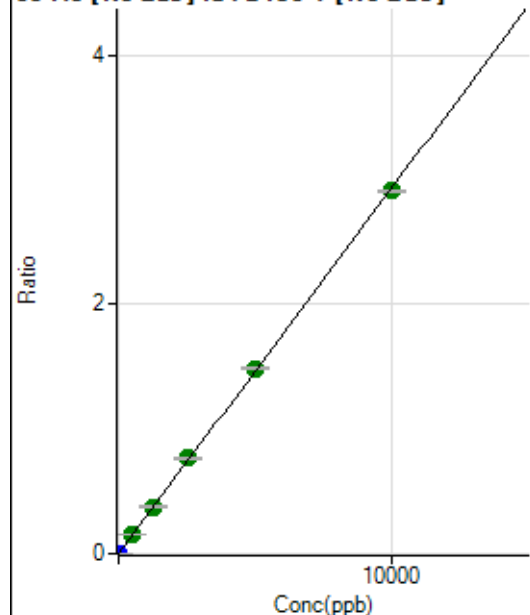
$$DL = 0.01723$$

$$BEC = 0.06798$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	20.7
2	☐	5.000	4.902	23406.57	0.0014	P	1.9
3	☐	500.000	520.627	2471234.98	0.1526	A	0.4
4	☐	1250.000	1284.772	5955918.31	0.3766	A	1.1
5	☐	2500.000	2611.576	11863786.63	0.7655	A	2.3
6	☐	5000.000	5072.348	23428898.26	1.4868	A	0.6
7	☐	10000.000	9930.554	46443914.87	2.9109	A	0.7
8	☐			11734.99	0.0008	P	20.0

$$y = 2.9312\text{E-}004 * x + 3.8183\text{E-}006$$

$$R = 0.9999$$

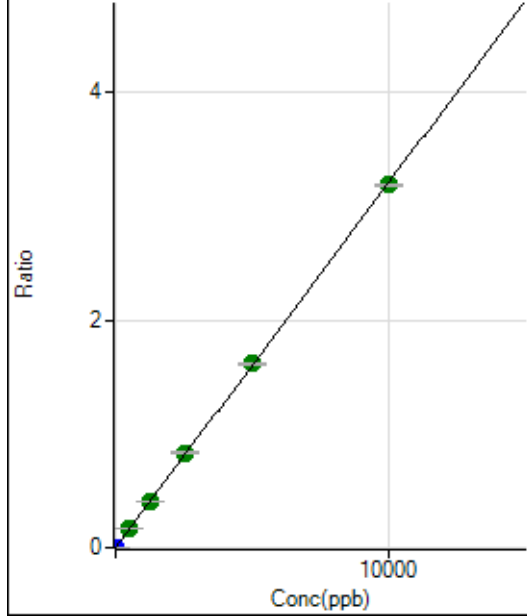
$$DL = 0.008102$$

$$BEC = 0.01303$$

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	118.89	0.0000	P	24.7
2	☐	5.000	4.947	25896.36	0.0016	P	1.1
3	☐	500.000	517.859	2689549.20	0.1661	A	0.2
4	☐	1250.000	1272.450	6454270.53	0.4081	A	0.9
5	☐	2500.000	2602.166	12934253.14	0.8346	A	2.3
6	☐	5000.000	5048.359	25514543.23	1.6191	A	0.6
7	☐	10000.000	9946.580	50898868.69	3.1901	A	0.8
8	☐			26454.38	0.0018	P	11.3

$$y = 3.2072\text{E-}004 * x + 7.2872\text{E-}006$$

$$R = 0.9999$$

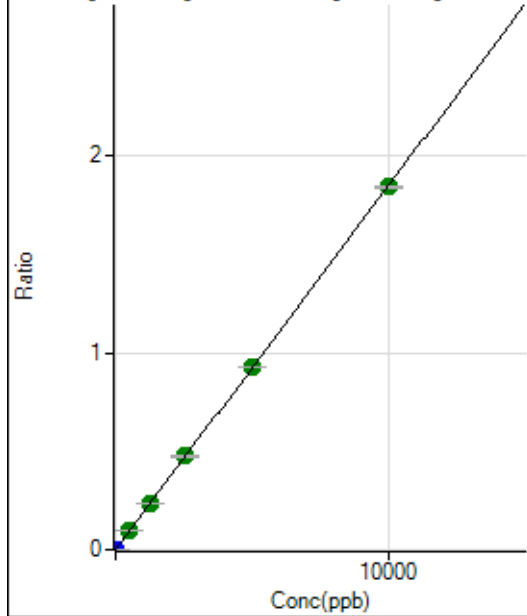
$$DL = 0.01685$$

$$BEC = 0.02272$$

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	37.78	0.0000	P	17.9
2	☐	5.000	4.791	14431.67	0.0009	P	2.9
3	☐	500.000	511.238	1531025.08	0.0946	A	0.5
4	☐	1250.000	1269.688	3713865.88	0.2348	A	0.3
5	☐	2500.000	2576.895	7385875.72	0.4766	A	2.2
6	☐	5000.000	5019.702	14629202.28	0.9283	A	0.5
7	☐	10000.000	9967.903	29412771.23	1.8435	A	0.5
8	☐			7392.02	0.0005	P	21.9

$$y = 1.8494\text{E-}004 * x + 2.3156\text{E-}006$$

$$R = 1.0000$$

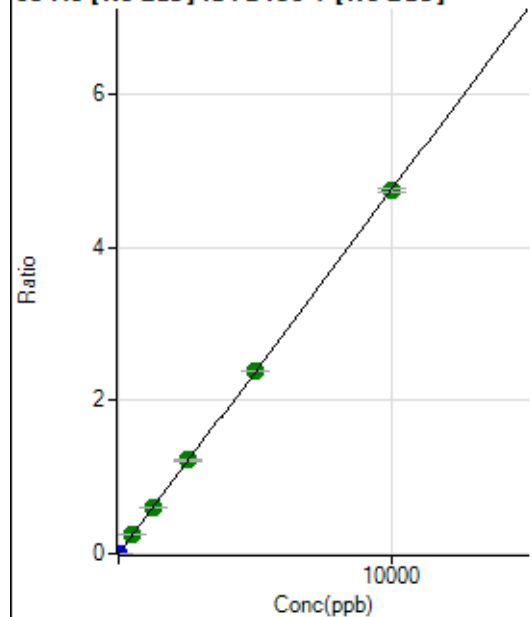
$$DL = 0.006739$$

$$BEC = 0.01252$$

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	90.00	0.0000	P	9.4
2	☐	5.000	4.883	37807.63	0.0023	P	1.7
3	☐	500.000	513.796	3955663.76	0.2443	A	0.9
4	☐	1250.000	1268.960	9542363.54	0.6033	A	0.1
5	☐	2500.000	2571.806	18948237.08	1.2228	A	2.9
6	☐	5000.000	5011.542	37547663.05	2.3828	A	0.2
7	☐	10000.000	9973.218	75656914.98	4.7419	A	1.1
8	☐			18194.22	0.0012	P	23.2

$$y = 4.7546\text{E-}004 * x + 5.5184\text{E-}006$$

$$R = 1.0000$$

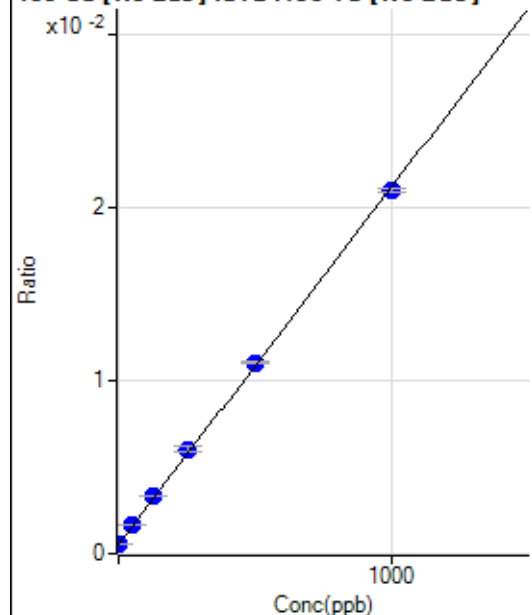
$$DL = 0.003289$$

$$BEC = 0.01161$$

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	6674.93	0.0005	P	1.0
2	☐	1.000	1.254	7017.31	0.0006	P	3.8
3	☐	50.000	55.220	20842.83	0.0017	P	0.0
4	☐	125.000	134.908	40853.96	0.0033	P	0.7
5	☐	250.000	267.056	74084.45	0.0060	P	5.2
6	☐	500.000	509.415	138581.67	0.0110	P	0.8
7	☐	1000.000	989.529	264748.78	0.0209	P	1.0
8	☐			6493.73	0.0006	P	2.2

$$y = 2.0599\text{E-}005 * x + 5.4184\text{E-}004$$

$$R = 0.9998$$

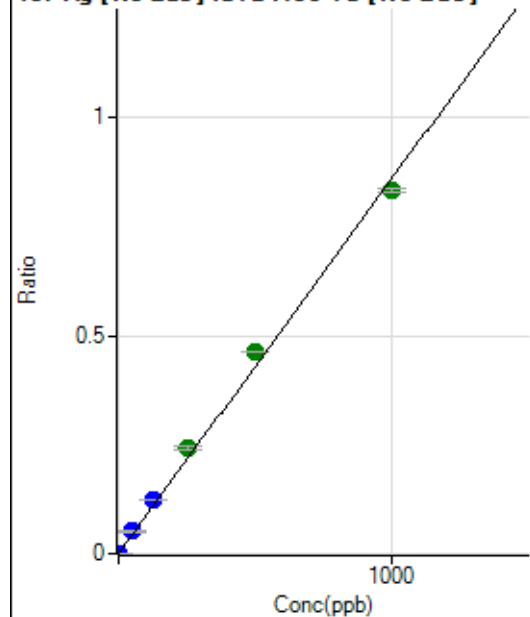
$$DL = 0.7626$$

$$BEC = 26.3$$

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	90.00	0.0000	P	8.1
2	☐	1.000	1.085	11619.16	0.0009	P	2.3
3	☐	50.000	59.124	630998.30	0.0508	P	1.4
4	☐	125.000	144.209	1525463.19	0.1240	P	1.2
5	☐	250.000	283.383	2988068.19	0.2437	A	3.9
6	☐	500.000	540.362	5834976.37	0.4646	A	0.2
7	☐	1000.000	968.616	10537036.16	0.8328	A	0.9
8	☐			2925.89	0.0003	P	17.1

$$y = 8.5981E-004 * x + 7.3092E-006$$

$$R = 0.9980$$

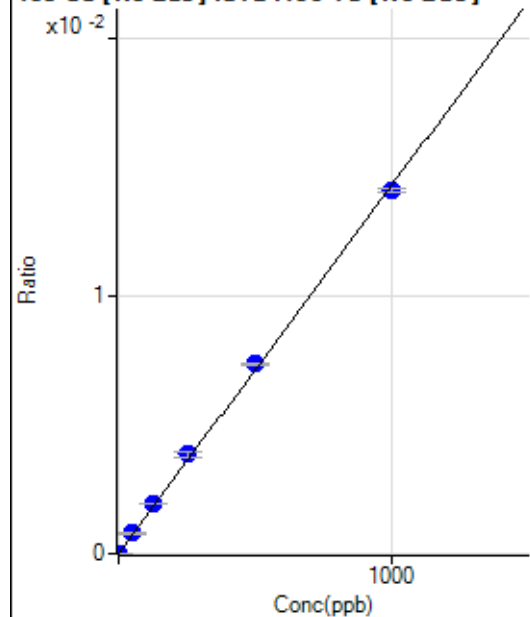
$$DL = 0.002074$$

$$BEC = 0.008501$$

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	17.78	0.0000	P	44.4
2	☐	1.000	1.097	211.11	0.0000	P	13.2
3	☐	50.000	55.295	9803.40	0.0008	P	4.0
4	☐	125.000	134.770	23654.92	0.0019	P	1.3
5	☐	250.000	270.238	47253.35	0.0039	P	4.9
6	☐	500.000	514.876	92206.25	0.0073	P	1.2
7	☐	1000.000	986.016	177870.94	0.0141	P	1.1
8	☐			158.89	0.0000	P	16.3

$$y = 1.4257E-005 * x + 1.4470E-006$$

$$R = 0.9996$$

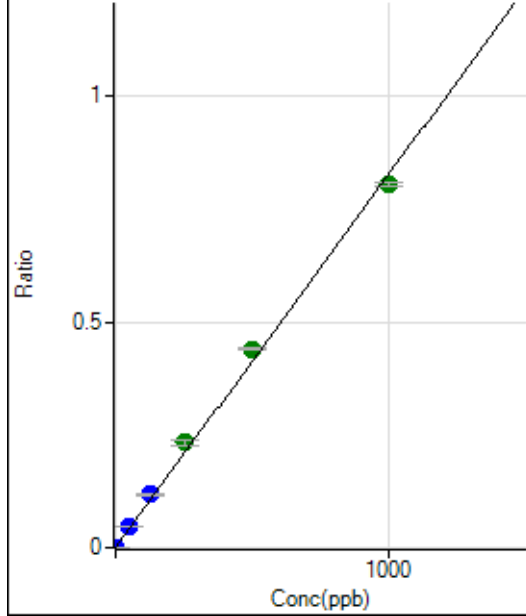
$$DL = 0.1351$$

$$BEC = 0.1015$$

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	30.00	0.0000	P	9.9
2	☐	1.000	1.077	11022.06	0.0009	P	2.1
3	☐	50.000	58.144	596159.09	0.0480	P	0.8
4	☐	125.000	142.375	1446933.66	0.1176	P	1.1
5	☐	250.000	281.386	2850348.95	0.2325	A	4.2
6	☐	500.000	533.501	5534790.68	0.4407	A	0.1
7	☐	1000.000	972.824	10167548.11	0.8036	A	1.1
8	☐			2635.83	0.0002	P	18.8

$$y = 8.2608\text{E-}004 * x + 2.4335\text{E-}006$$

$$R = 0.9985$$

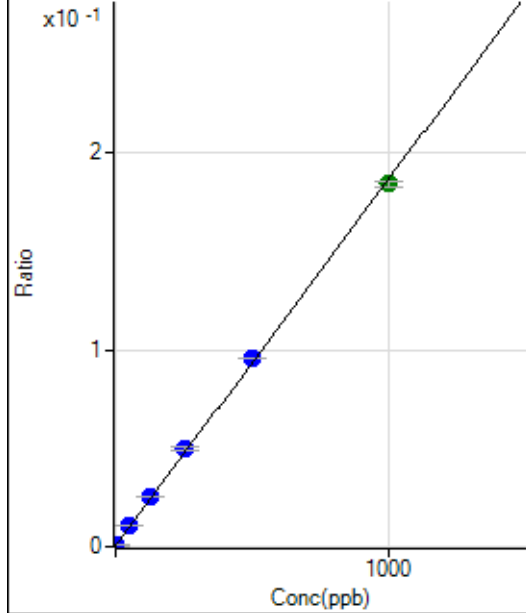
$$DL = 0.0008792$$

$$BEC = 0.002946$$

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	4670.01	0.0004	P	0.9
2	☐	1.000	1.074	7160.11	0.0006	P	2.0
3	☐	50.000	54.538	130792.02	0.0105	P	1.3
4	☐	125.000	134.981	313996.34	0.0255	P	1.0
5	☐	250.000	267.811	616392.07	0.0503	P	4.1
6	☐	500.000	512.884	1204613.33	0.0959	P	0.5
7	☐	1000.000	987.630	2332455.51	0.1844	A	1.5
8	☐			5591.11	0.0005	P	1.8

$$y = 1.8628\text{E-}004 * x + 3.7909\text{E-}004$$

$$R = 0.9997$$

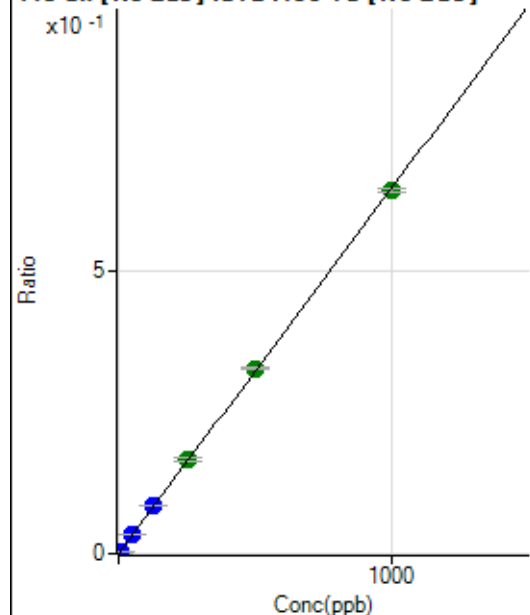
$$DL = 0.05523$$

$$BEC = 2.035$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1602.33	0.0001	P	4.4
2	☐	5.000	4.855	40370.87	0.0033	P	3.0
3	☐	50.000	52.164	419853.63	0.0338	P	1.3
4	☐	125.000	130.284	1037031.11	0.0843	P	1.2
5	☐	250.000	260.315	2063906.36	0.1683	A	4.2
6	☐	500.000	506.556	4111439.77	0.3274	A	1.5
7	☐	1000.000	993.375	8121049.67	0.6419	A	1.0
8	☐			14402.84	0.0012	P	3.8

$$y = 6.4602\text{E-}004 * x + 1.3011\text{E-}004$$

$$R = 0.9999$$

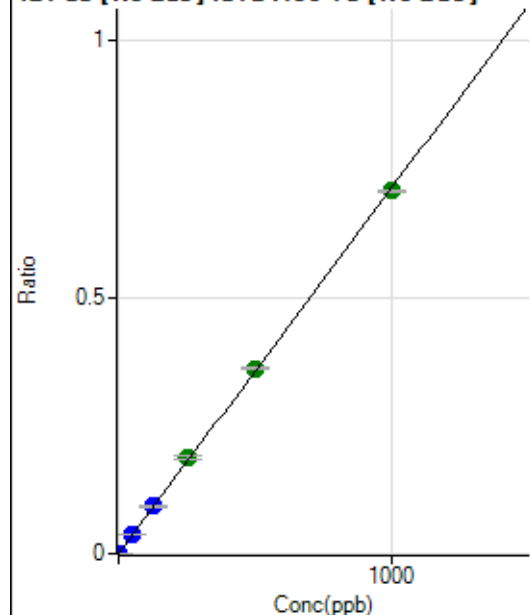
$$DL = 0.02631$$

$$BEC = 0.2014$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.45	0.0000	P	7.8
2	☐	2.000	1.904	16873.30	0.0014	P	1.7
3	☐	50.000	51.812	458208.09	0.0369	P	1.1
4	☐	125.000	129.573	1135702.66	0.0923	P	1.1
5	☐	250.000	263.779	2304710.92	0.1879	A	3.6
6	☐	500.000	506.508	4531843.23	0.3608	A	0.9
7	☐	1000.000	992.639	8947431.88	0.7072	A	0.8
8	☐			7064.03	0.0006	P	3.8

$$y = 7.1240\text{E-}004 * x + 8.4781\text{E-}006$$

$$R = 0.9999$$

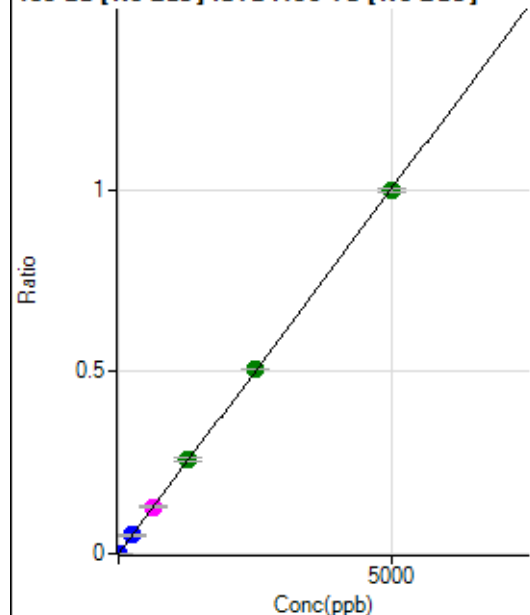
$$DL = 0.002801$$

$$BEC = 0.0119$$

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	32.22	0.0000	P	47.0
2	☐	10.000	9.193	22836.18	0.0018	P	2.1
3	☐	250.000	252.038	627791.51	0.0506	P	1.9
4	☐	625.000	642.199	1585555.15	0.1289	M	2.7
5	☐	1250.000	1292.630	3182562.49	0.2594	A	2.3
6	☐	2500.000	2530.747	6378784.07	0.5079	A	0.3
7	☐	5000.000	4971.719	12624005.23	0.9978	A	1.1
8	☐			7479.83	0.0006	P	7.2

$$y = 2.0069\text{E-}004 * x + 2.6223\text{E-}006$$

$$R = 0.9999$$

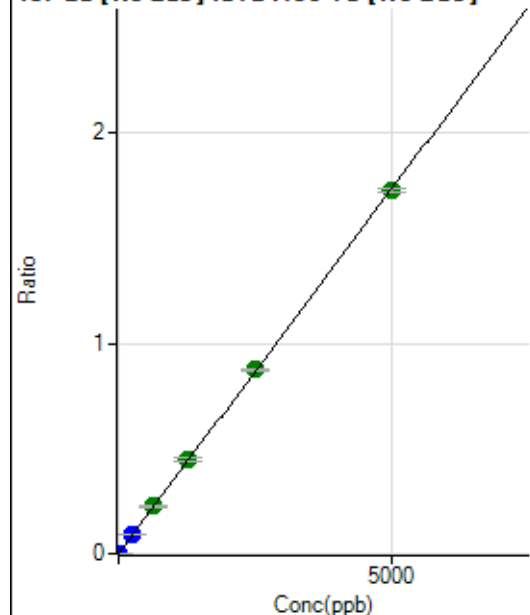
$$DL = 0.01844$$

$$BEC = 0.01307$$

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	41.11	0.0000	P	29.5
2	☐	10.000	9.222	39521.43	0.0032	P	1.5
3	☐	250.000	253.189	1088367.69	0.0877	P	1.6
4	☐	625.000	650.596	2772053.52	0.2253	A	1.9
5	☐	1250.000	1282.307	5446411.48	0.4441	A	3.8
6	☐	2500.000	2524.513	10980390.81	0.8744	A	0.7
7	☐	5000.000	4976.309	21806122.59	1.7235	A	1.0
8	☐			13039.47	0.0011	P	7.6

$$y = 3.4635\text{E-}004 * x + 3.3447\text{E-}006$$

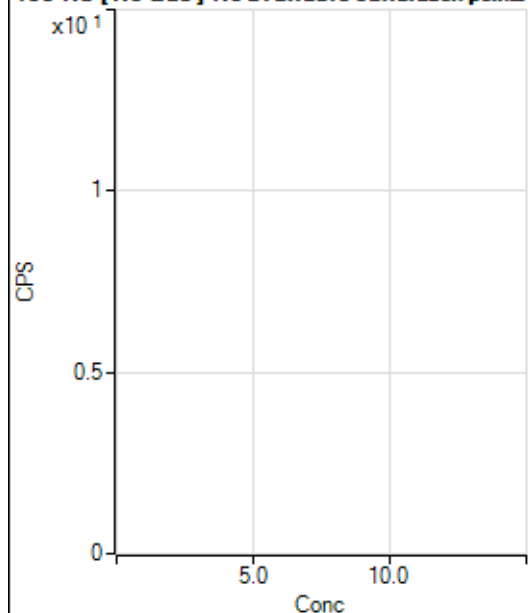
$$R = 0.9999$$

$$DL = 0.00856$$

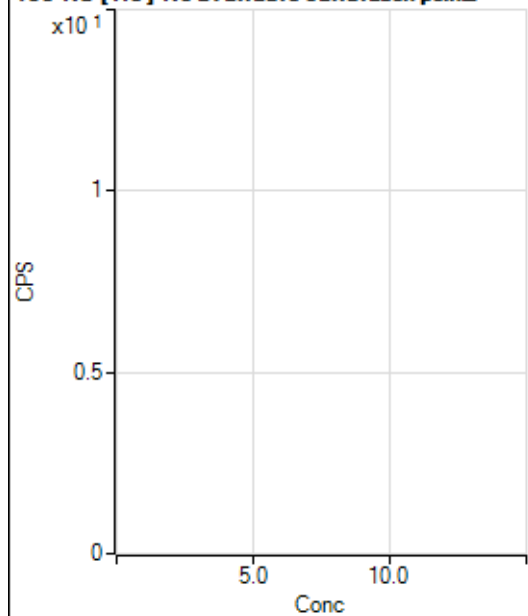
$$BEC = 0.009657$$

Weight: <None>

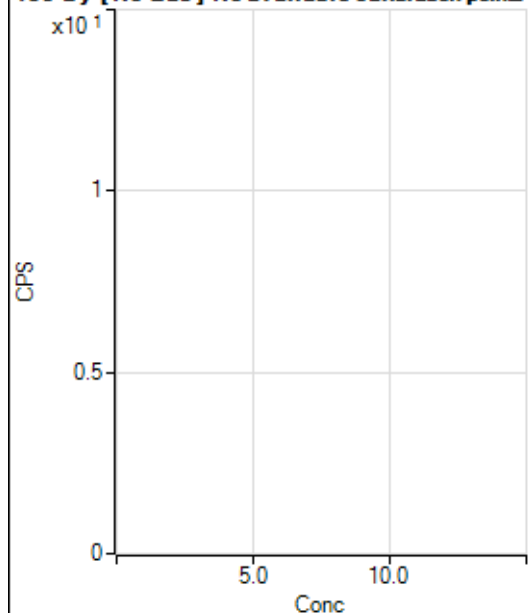
Min Conc: 0

150 Nd [No Gas] No available calibration points

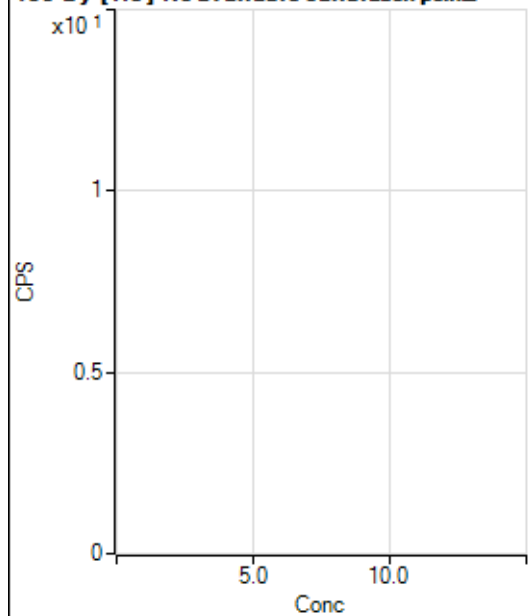
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			13.33		P	50.0
3	☐			116.67		P	9.9
4	☐			240.01		P	14.5
5	☐			472.24		P	4.5
6	☐			910.04		P	5.3
7	☐			1699.01		P	1.4
8	☐			360.01		P	13.1

150 Nd [He] No available calibration points

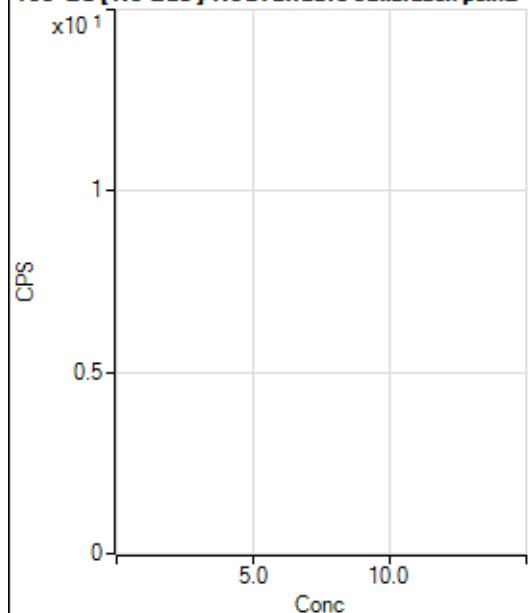
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			2.22		P	173.
3	☐			30.00		P	11.1
4	☐			67.78		P	24.3
5	☐			111.11		P	14.2
6	☐			217.78		P	13.8
7	☐			360.01		P	10.7
8	☐			193.34		P	4.6

156 Dy [No Gas] No available calibration points

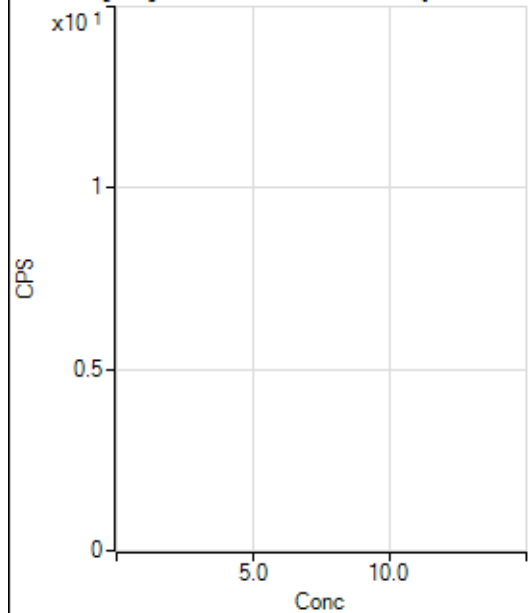
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			14.45		P	48.0
3	☐			37.78		P	36.7
4	☐			116.67		P	12.5
5	☐			247.78		P	9.4
6	☐			433.34		P	4.7
7	☐			840.04		P	6.6
8	☐			2060.17		P	2.4

156 Dy [He] No available calibration points

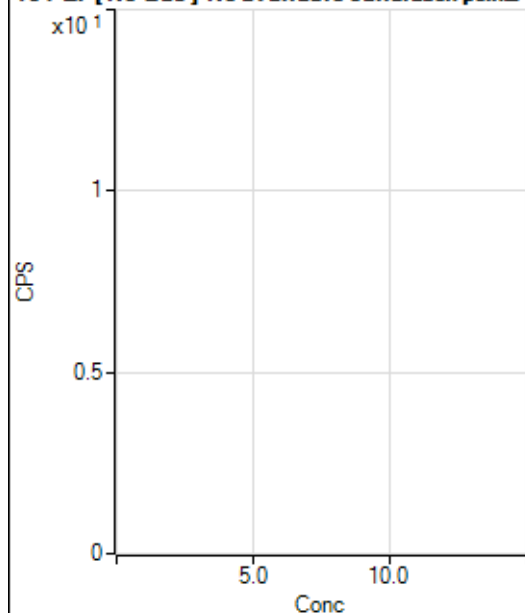
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			6.67		P	0.0
3	☐			48.89		P	20.8
4	☐			103.33		P	11.6
5	☐			218.89		P	10.7
6	☐			452.24		P	3.3
7	☐			828.92		P	7.0
8	☐			1311.19		P	0.6

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

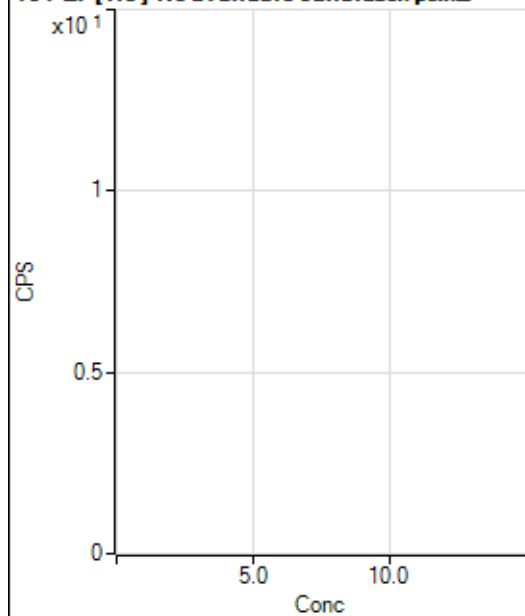
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	35.3
2	☐			73.33		P	32.8
3	☐			103.34		P	18.0
4	☐			147.78		P	25.7
5	☐			232.23		P	7.9
6	☐			430.01		P	10.1
7	☐			648.91		P	3.0
8	☐			2169.08		P	5.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			372.23		P	11.9
2	☐			336.67		P	14.3
3	☐			396.68		P	3.4
4	☐			403.34		P	12.0
5	☐			468.90		P	7.0
6	☐			591.13		P	11.3
7	☐			772.25		P	8.4
8	☐			1806.80		P	3.6

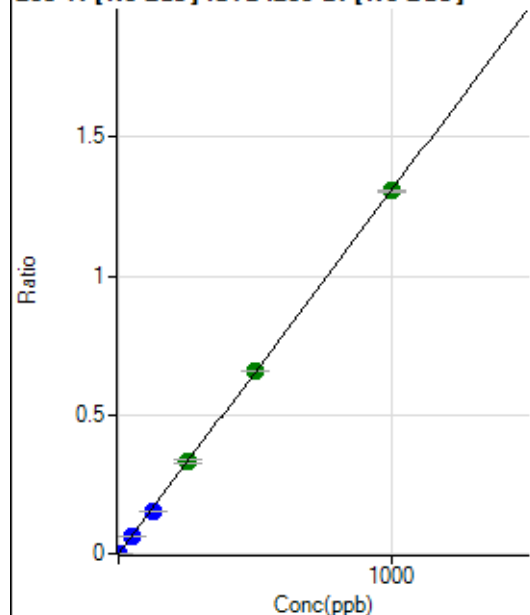
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	39.9
2	☐			77.78		P	10.8
3	☐			90.00		P	17.0
4	☐			100.00		P	14.5
5	☐			181.11		P	6.5
6	☐			212.22		P	9.6
7	☐			310.01		P	7.1
8	☐			312.23		P	4.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	29.0
2	☐			54.44		P	15.4
3	☐			55.55		P	6.9
4	☐			63.33		P	41.1
5	☐			126.67		P	7.0
6	☐			141.12		P	4.9
7	☐			222.23		P	2.3
8	☐			197.78		P	17.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114.44	0.0000	P	27.5
2	☐	1.000	0.837	7506.58	0.0011	P	2.1
3	☐	50.000	46.995	410138.37	0.0615	P	1.0
4	☐	125.000	117.634	1025663.66	0.1540	P	1.2
5	☐	250.000	255.513	2195090.39	0.3345	A	4.3
6	☐	500.000	502.708	4374634.59	0.6580	A	1.0
7	☐	1000.000	998.339	8549347.58	1.3068	A	0.7
8	☐			1989.06	0.0004	P	15.9

$$y = 0.0013 * x + 1.7240E-005$$

$$R = 0.9999$$

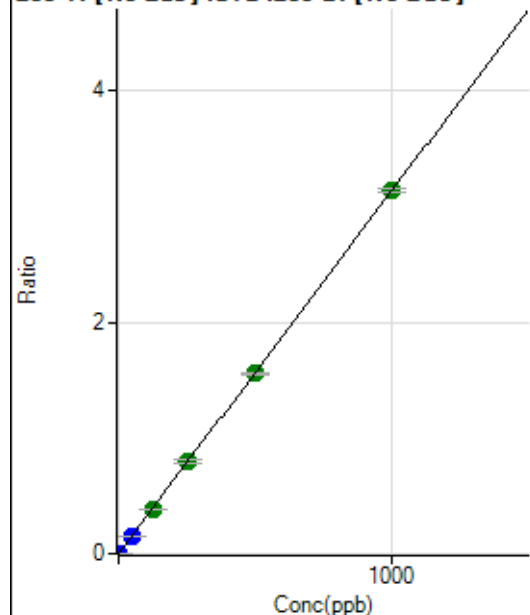
$$DL = 0.01088$$

$$BEC = 0.01317$$

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	258.89	0.0000	P	16.9
2	☐	1.000	0.853	18265.71	0.0027	P	2.5
3	☐	50.000	46.910	978908.03	0.1469	P	0.7
4	☐	125.000	123.960	2584539.91	0.3880	A	0.7
5	☐	250.000	253.645	5209915.79	0.7940	A	4.9
6	☐	500.000	497.276	10347711.51	1.5565	A	1.0
7	☐	1000.000	1000.735	20492459.83	3.1324	A	1.0
8	☐			4679.78	0.0009	P	24.2

$$y = 0.0031 * x + 3.9016E-005$$

$$R = 1.0000$$

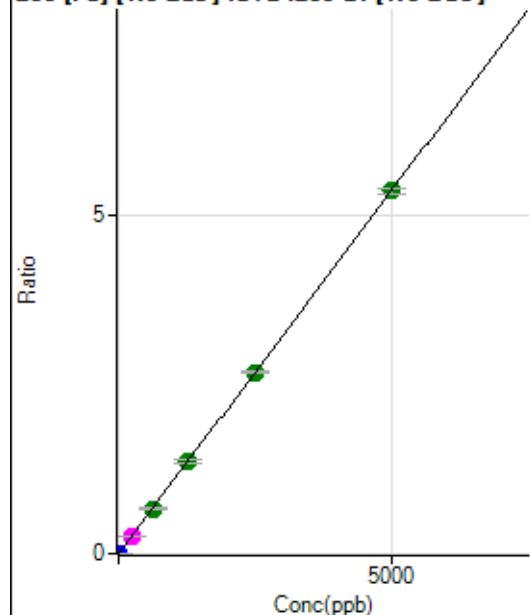
$$DL = 0.006333$$

$$BEC = 0.01247$$

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	366.67	0.0001	P	5.6
2	☐	1.000	0.847	6512.73	0.0010	P	1.0
3	☐	250.000	245.588	1759956.05	0.2641	M	2.4
4	☐	625.000	619.653	4437011.50	0.6662	A	1.0
5	☐	1250.000	1268.082	8947524.52	1.3633	A	4.1
6	☐	2500.000	2497.562	17849866.26	2.6850	A	0.9
7	☐	5000.000	4997.588	35147677.25	5.3725	A	1.3
8	☐			24907.46	0.0045	P	6.5

$$y = 0.0011 * x + 5.5249E-005$$

$$R = 1.0000$$

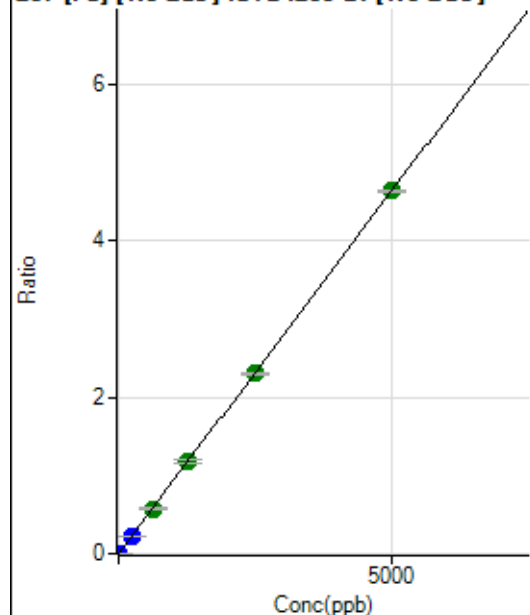
$$DL = 0.008682$$

$$BEC = 0.05139$$

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	292.23	0.0000	P	5.2
2	☐	1.000	0.831	5493.38	0.0008	P	4.5
3	☐	250.000	235.883	1458319.20	0.2188	P	0.3
4	☐	625.000	622.495	3845099.45	0.5773	A	1.1
5	☐	1250.000	1267.812	7717721.20	1.1758	A	3.5
6	☐	2500.000	2484.426	15317336.02	2.3040	A	0.8
7	☐	5000.000	5004.353	30361191.21	4.6408	A	0.5
8	☐			20450.03	0.0037	P	5.6

$$y = 9.2735E-004 * x + 4.4030E-005$$

$$R = 1.0000$$

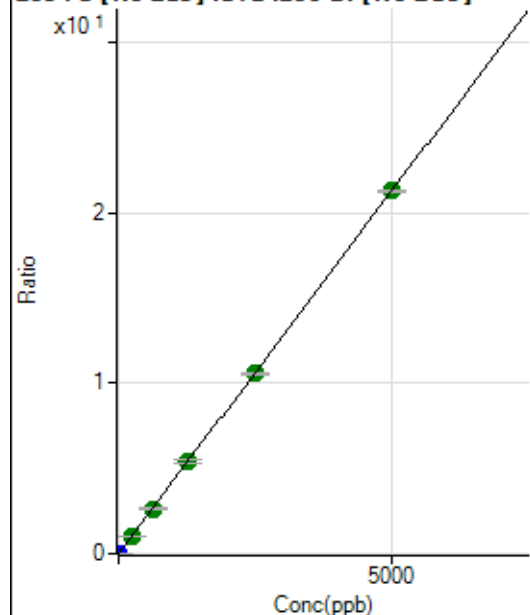
$$DL = 0.007463$$

$$BEC = 0.04748$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1374.49	0.0002	P	4.2
2	☐	1.000	0.840	25499.58	0.0038	P	1.4
3	☐	250.000	245.282	6959745.75	1.0442	A	0.8
4	☐	625.000	620.546	17592372.83	2.6414	A	1.1
5	☐	1250.000	1267.964	35424006.14	5.3970	A	3.8
6	☐	2500.000	2482.382	70243290.62	10.5658	A	0.4
7	☐	5000.000	5005.111	139368565.1	21.3032	A	0.9
8	☐			95517.10	0.0174	P	5.7

$$y = 0.0043 * x + 2.0711E-004$$

$$R = 1.0000$$

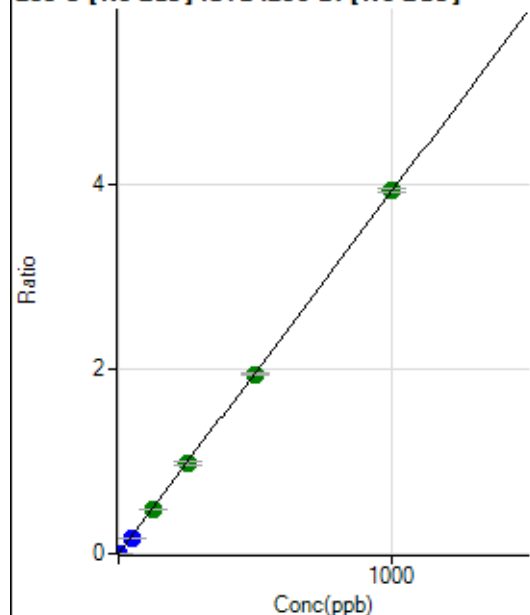
$$DL = 0.00607$$

$$BEC = 0.04866$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.67	0.0000	P	45.0
2	☐	1.000	0.782	20736.30	0.0031	P	1.0
3	☐	50.000	43.816	1147884.17	0.1722	P	1.6
4	☐	125.000	121.717	3186288.67	0.4784	A	1.3
5	☐	250.000	249.962	6447062.40	0.9824	A	4.9
6	☐	500.000	496.394	12969857.45	1.9510	A	1.1
7	☐	1000.000	1002.532	25777723.78	3.9403	A	1.1
8	☐			4270.79	0.0008	P	26.8

$$y = 0.0039 * x + 4.0168E-006$$

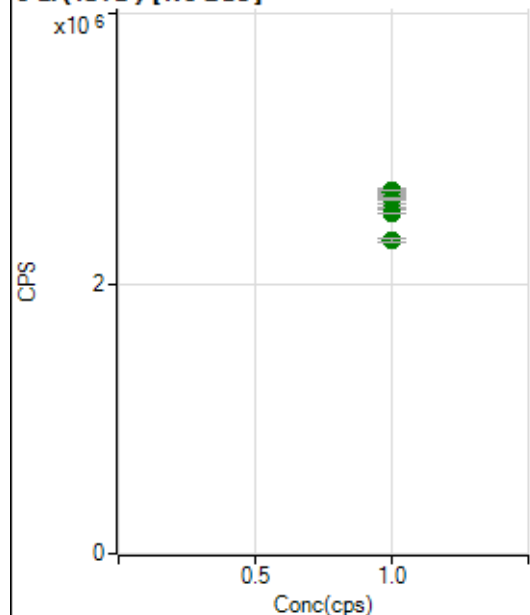
$$R = 1.0000$$

$$DL = 0.001379$$

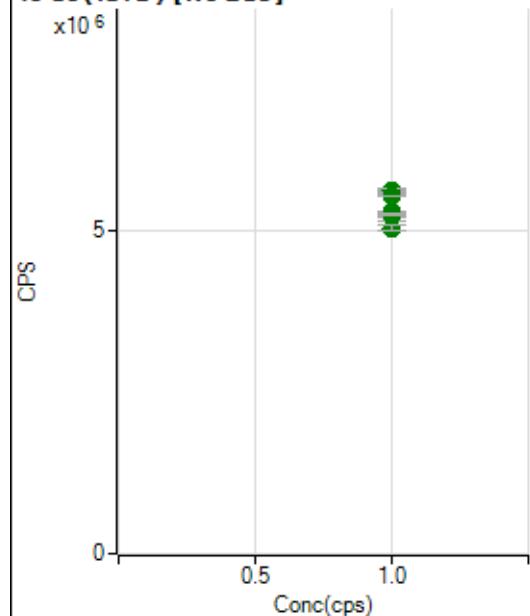
$$BEC = 0.001022$$

Weight: <None>

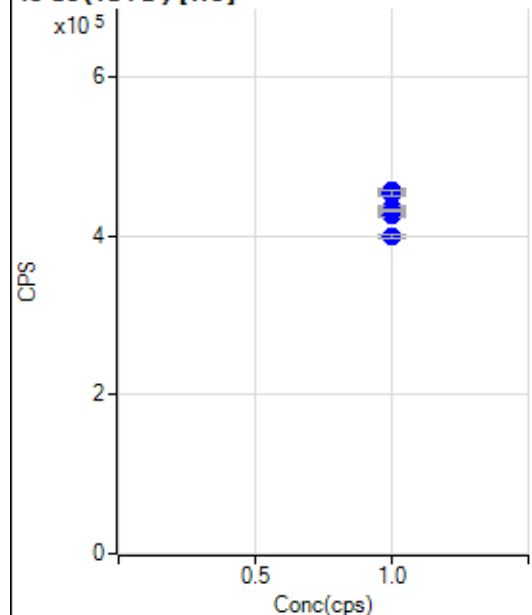
Min Conc: 0

6 Li (ISTD) [No Gas]

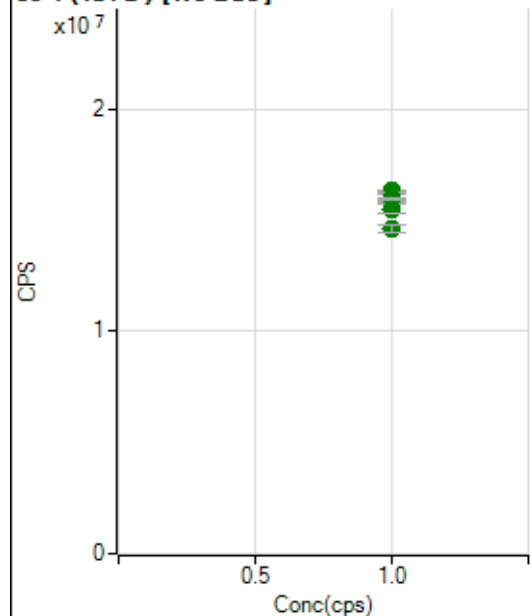
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2662693.24		A	1.2
2	☐	1.000		2687453.31		A	1.5
3	☐	1.000		2674360.74		A	1.2
4	☐	1.000		2628022.76		A	0.7
5	☐	1.000		2554667.51		A	3.0
6	☐	1.000		2553181.87		A	0.7
7	☐	1.000		2522571.98		A	0.2
8	☐	1.000		2319963.07		A	1.1

45 Sc (ISTD) [No Gas]

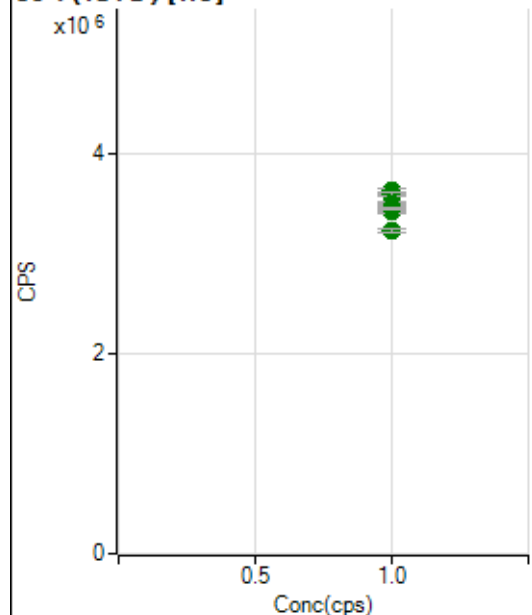
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5627153.46		A	0.7
2	☐	1.000		5626135.06		A	1.3
3	☐	1.000		5548889.92		A	0.5
4	☐	1.000		5300160.09		A	0.1
5	☐	1.000		5239918.60		A	3.1
6	☐	1.000		5253745.72		A	1.4
7	☐	1.000		5262742.77		A	0.2
8	☐	1.000		5054709.58		A	1.3

45 Sc (ISTD) [He]

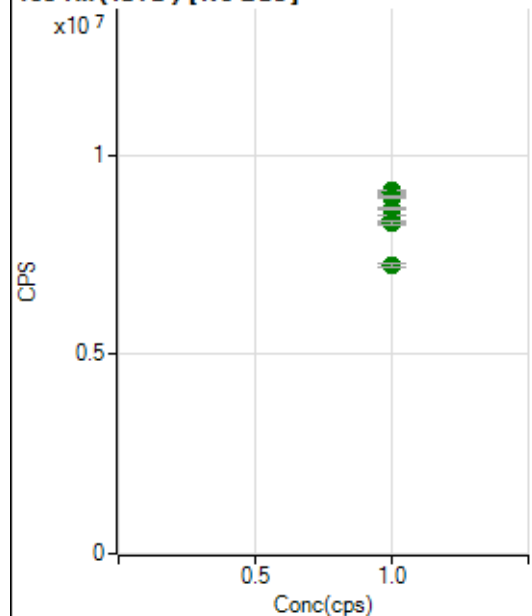
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		456884.54		P	1.1
2	☐	1.000		455260.39		P	1.2
3	☐	1.000		454011.51		P	1.2
4	☐	1.000		435982.74		P	0.6
5	☐	1.000		426888.34		P	0.6
6	☐	1.000		426535.94		P	0.8
7	☐	1.000		431468.68		P	0.6
8	☐	1.000		399625.88		P	0.8

89 Y (ISTD) [No Gas]

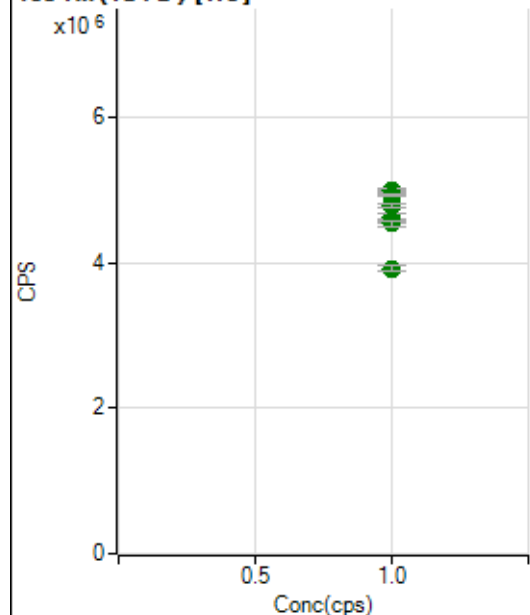
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16305059.06		A	0.5
2	☐	1.000		16246366.42		A	0.5
3	☐	1.000		16192776.43		A	0.6
4	☐	1.000		15815732.68		A	0.8
5	☐	1.000		15504033.24		A	2.7
6	☐	1.000		15757953.24		A	0.8
7	☐	1.000		15955174.76		A	0.1
8	☐	1.000		14620002.98		A	2.3

89 Y(ISTD) [He]

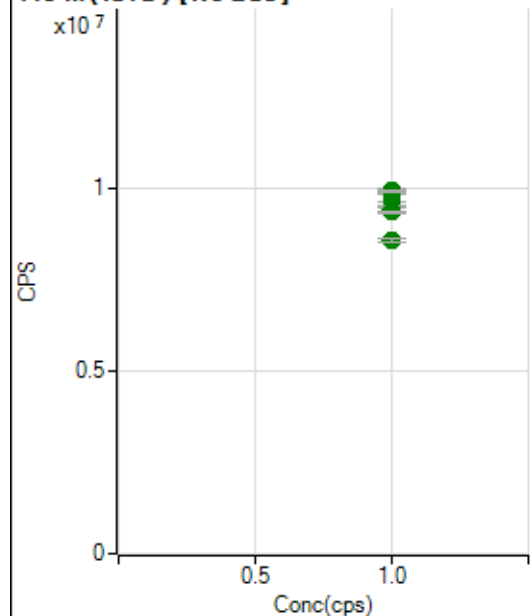
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3586967.06		A	0.3
2	☐	1.000		3620598.03		A	1.1
3	☐	1.000		3583489.32		A	1.1
4	☐	1.000		3498784.11		A	0.3
5	☐	1.000		3408655.75		A	1.0
6	☐	1.000		3447568.60		A	1.3
7	☐	1.000		3445894.98		A	0.8
8	☐	1.000		3220981.72		A	1.2

103 Rh(ISTD) [No Gas]

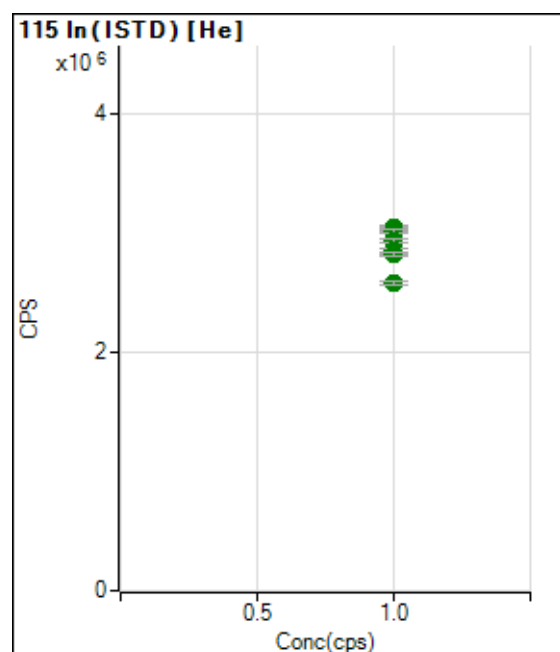
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9110404.79		A	0.7
2	☐	1.000		9061536.05		A	0.9
3	☐	1.000		8953119.79		A	0.3
4	☐	1.000		8656474.87		A	0.3
5	☐	1.000		8404774.18		A	2.6
6	☐	1.000		8297422.24		A	0.4
7	☐	1.000		8301767.51		A	0.9
8	☐	1.000		7243833.22		A	1.5

103 Rh (ISTD) [He]

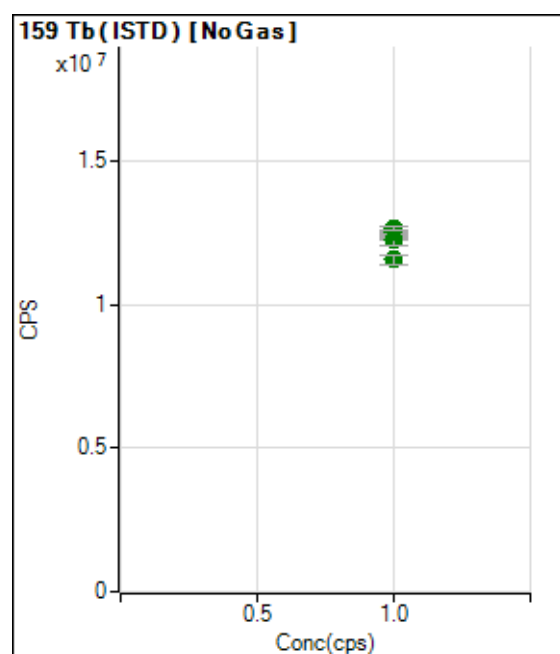
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4976130.38		A	1.1
2	☐	1.000		4995681.38		A	1.0
3	☐	1.000		4937314.93		A	0.5
4	☐	1.000		4798177.29		A	1.2
5	☐	1.000		4622815.07		A	2.3
6	☐	1.000		4587368.23		A	1.0
7	☐	1.000		4542640.18		A	1.7
8	☐	1.000		3930039.00		A	1.6

115 In (ISTD) [No Gas]

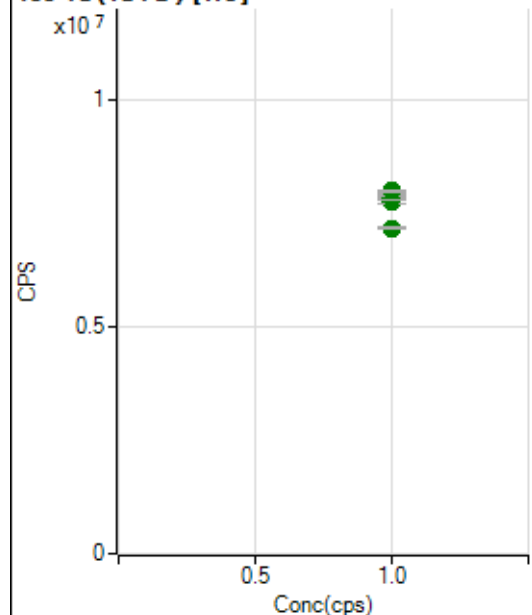
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9878744.02		A	0.8
2	☐	1.000		9928880.59		A	1.1
3	☐	1.000		9927621.31		A	0.7
4	☐	1.000		9650488.56		A	0.1
5	☐	1.000		9431303.39		A	1.9
6	☐	1.000		9508974.24		A	0.4
7	☐	1.000		9359697.21		A	0.5
8	☐	1.000		8565621.02		A	1.1



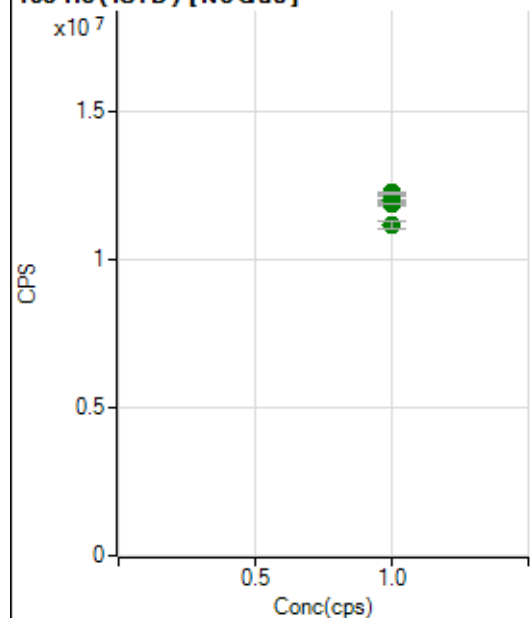
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3040848.53		A	1.1
2	☐	1.000		3031570.55		A	1.0
3	☐	1.000		3010953.27		A	1.1
4	☐	1.000		2935870.11		A	0.8
5	☐	1.000		2854870.06		A	1.2
6	☐	1.000		2828630.43		A	0.9
7	☐	1.000		2815635.40		A	1.3
8	☐	1.000		2580400.83		A	1.3



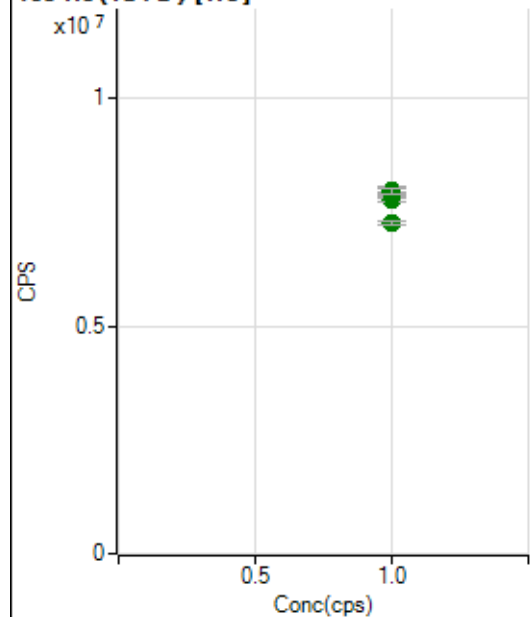
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12318644.40		A	1.2
2	☐	1.000		12361080.37		A	1.0
3	☐	1.000		12411496.76		A	0.6
4	☐	1.000		12302571.21		A	0.4
5	☐	1.000		12274969.12		A	3.8
6	☐	1.000		12558645.65		A	1.0
7	☐	1.000		12652724.95		A	1.1
8	☐	1.000		11571232.05		A	2.8

159 Tb (ISTD) [He]

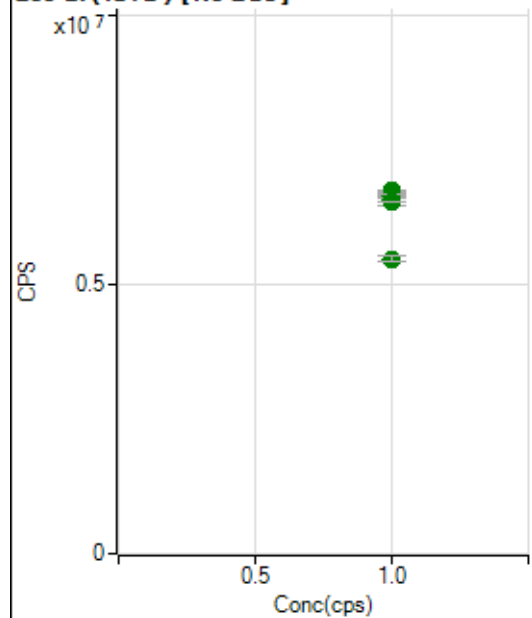
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7851589.88		A	1.0
2	☐	1.000		7896116.41		A	1.0
3	☐	1.000		7942727.24		A	0.9
4	☐	1.000		7812320.93		A	0.8
5	☐	1.000		7765422.31		A	2.0
6	☐	1.000		7847521.62		A	1.0
7	☐	1.000		7989794.95		A	0.4
8	☐	1.000		7162311.42		A	0.7

165 Ho (ISTD) [No Gas]

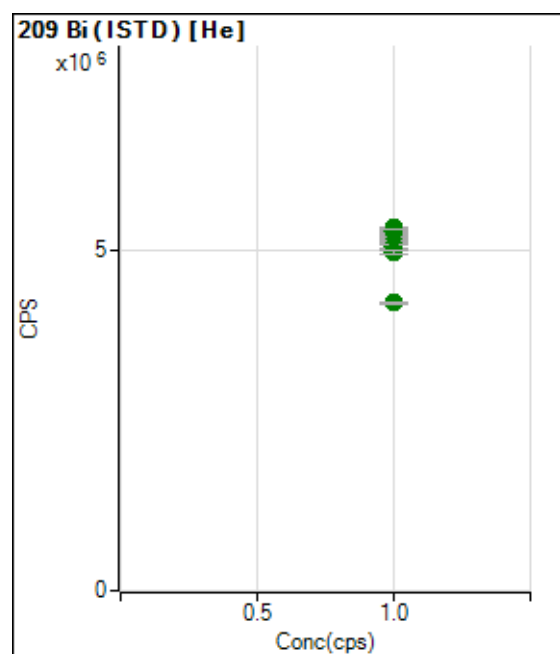
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11878739.82		A	0.7
2	☐	1.000		11951433.30		A	0.5
3	☐	1.000		11905891.77		A	1.3
4	☐	1.000		11953523.71		A	0.5
5	☐	1.000		12007637.32		A	2.7
6	☐	1.000		12170689.54		A	1.2
7	☐	1.000		12227611.76		A	0.6
8	☐	1.000		11160109.42		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7897336.90		A	0.8
2	☐	1.000		7878832.94		A	0.7
3	☐	1.000		7973982.86		A	2.1
4	☐	1.000		7849889.05		A	1.0
5	☐	1.000		7793608.77		A	1.4
6	☐	1.000		7855442.87		A	0.4
7	☐	1.000		7965188.42		A	1.2
8	☐	1.000		7267495.45		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6636662.26		A	0.2
2	☐	1.000		6741859.97		A	0.3
3	☐	1.000		6665389.83		A	0.5
4	☐	1.000		6660630.81		A	0.8
5	☐	1.000		6569113.51		A	3.3
6	☐	1.000		6648171.36		A	0.8
7	☐	1.000		6542203.52		A	0.2
8	☐	1.000		5477863.98		A	2.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5335523.85		A	0.6
2	☐	1.000		5265990.93		A	0.6
3	☐	1.000		5281572.18		A	1.9
4	☐	1.000		5183783.50		A	0.3
5	☐	1.000		5129873.53		A	0.6
6	☐	1.000		5067277.91		A	0.9
7	☐	1.000		4976301.77		A	0.8
8	☐	1.000		4234340.07		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7092223MS.b

Acq. Date-Time 2023-09-22 13:22:13

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		8011	80109.64			0.651	5.000
24		310936	3109356.01			0.766	5.000
25		41606	416058.15			0.490	5.000
26		48661	486611.31			0.188	5.000
59		73830	738297.89			0.218	5.000
113		11001	110013.39			0.448	5.000
115		135721	1357210.48			0.969	5.000
206		66841	668410.50			0.475	5.000
207		60449	604487.28			0.444	5.000
208		152367	1523666.63			1.032	5.000
220		0	4.30			13.258	

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

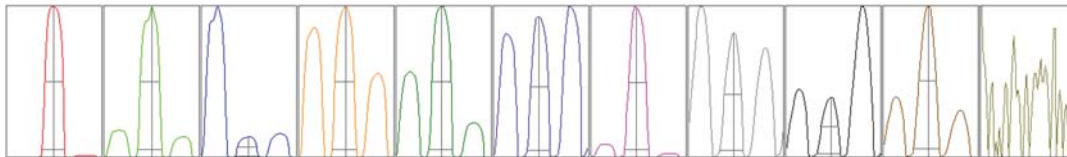
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8090	8005	7977	7955	8028
24	309078	309557	308982	313709	313353
25	41351	41456	41644	41715	41862
26	48519	48634	48704	48762	48687
59	73887	73562	73897	73986	73817
113	11084	10997	10972	10997	10957
115	136029	135805	137469	133792	135510
206	67400	66663	66786	66640	66716
207	60888	60463	60208	60258	60427
208	153968	152007	154014	150535	151309

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14401.32	9.00	8.90 - 9.10	
24	551366.70	24.05	23.90 - 24.10	
25	73295.20	25.00	24.90 - 25.10	
26	85168.51	26.00	25.90 - 26.10	
59	126731.79	58.95	58.90 - 59.10	
113	20590.61	112.95	112.90 - 113.10	
115	254595.81	114.95	114.90 - 115.10	
206	129734.42	205.95	205.90 - 206.10	
207	114107.47	206.95	206.90 - 207.10	
208	285336.95	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.690	0.900	
24	0.60	0.768	0.900	
25	0.59	0.718	0.900	
26	0.60	0.777	0.900	
59	0.60	0.755	0.900	
113	0.55	0.728	0.900	
115	0.54	0.771	0.900	
206	0.54	0.749	0.900	
207	0.54	0.751	0.900	
208	0.55	0.822	0.900	
220				

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	8.8 V	Deflect	14.8 V
Extract 2	-130.0 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	160 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.18		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2270 V	Pulse HV	1376 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		23895	238952.96			2.410	
89		263905	2639054.81			2.126	
205		61368	613676.46			2.533	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	24295	24121	24236	23929	22896
89	265414	264016	271319	263124	255655
205	62785	62054	62040	61180	58779

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	8.7 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	131	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.18		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2270 V	Pulse HV	1376 V
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