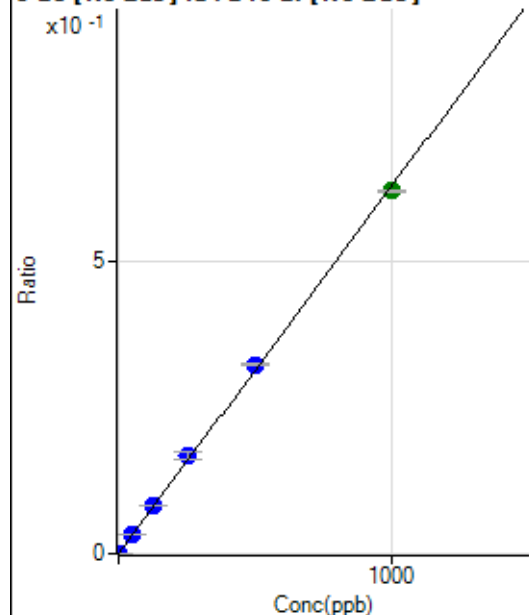


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040324-MS.b\
Analysis File: P8040324-MS.batch.bin
DA Date-Time: 2024-04-03 16:30:40
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-04-03 10:13:42
2	005CALS.d	S02	2024-04-03 10:17:07
3	007CALS.d	S03	2024-04-03 10:24:00
4	008CALS.d	S04	2024-04-03 10:27:24
5	009CALS.d	S05	2024-04-03 10:30:35
6	010CALS.d	S06	2024-04-03 10:33:46
7	011CALS.d	S07	2024-04-03 10:36:48
8	012CALS.d	S08	2024-04-03 10:39:51

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.99	0.0000	P	10.5
2	☐	1.000	1.001	1231.57	0.0007	P	1.1
3	☐	50.000	51.592	60770.75	0.0325	P	1.2
4	☐	125.000	130.798	145564.57	0.0824	P	1.1
5	☐	250.000	267.456	281078.29	0.1685	P	6.7
6	☐	500.000	514.206	552935.04	0.3240	P	1.0
7	☐	1000.000	987.728	1054826.12	0.6224	A	0.8
8	☐			639.52	0.0004	P	10.6

$$y = 6.3005E-004 * x + 3.4790E-005$$

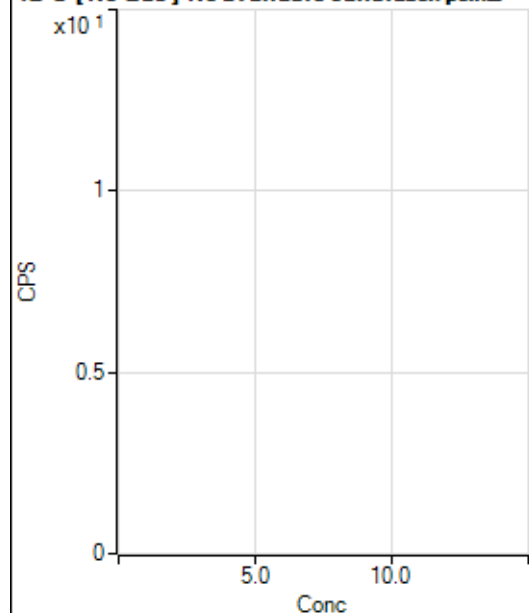
$$R = 0.9997$$

$$DL = 0.01733$$

$$BEC = 0.05522$$

Weight: <None>

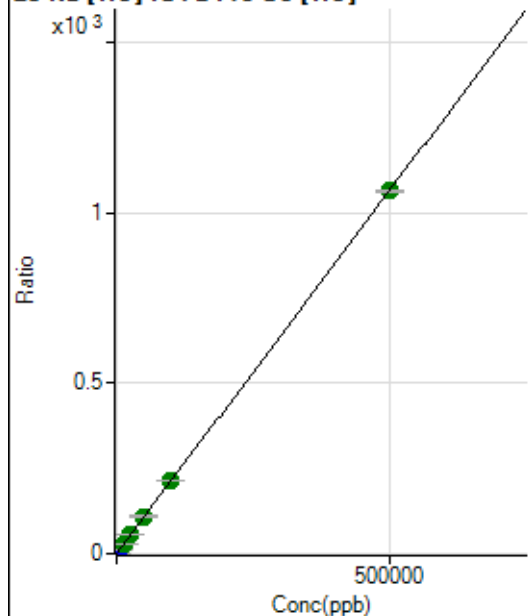
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1195022.61		A	2.4
2	☐			1266048.12		A	1.4
3	☐			1284808.02		A	0.7
4	☐			1345140.34		A	1.7
5	☐			1405750.69		A	0.2
6	☐			1666544.68		A	2.2
7	☐			2018106.91		A	5.0
8	☐			1576128.80		A	3.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13984.47		P	3.0
2	☐			14833.12		P	0.5
3	☐			15225.74		P	2.5
4	☐			16224.59		P	0.9
5	☐			17344.76		P	2.1
6	☐			21019.56		P	1.5
7	☐			26897.94		P	0.9
8	☐			22943.53		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5964.60	0.0809	P	4.9
2	☐	500.000	488.491	80185.24	1.1222	P	4.1
3	☐	5000.000	5296.615	804133.44	11.3712	P	0.7
4	☐	12500.000	13106.484	1928205.91	28.0188	A	1.3
5	☐	25000.000	25851.384	3741225.19	55.1859	A	1.7
6	☐	50000.000	51432.800	7473453.98	109.7154	A	4.5
7	☐	100000.00	100473.91	14610678.53	214.2518	A	1.3
8	☐	500000.00	499701.25	77077383.85	1,065.247	A	0.3

$$y = 0.0021 * x + 0.0809$$

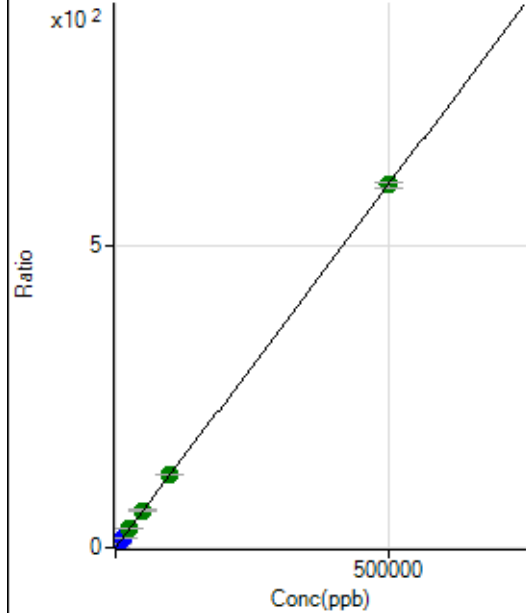
$$R = 1.0000$$

$$DL = 5.589$$

$$BEC = 37.96$$

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	145.56	0.0020	P	4.9
2	☐	500.000	490.589	42212.10	0.5906	P	2.8
3	☐	5000.000	5174.455	439142.48	6.2100	P	1.3
4	☐	12500.000	12973.995	1071282.62	15.5676	P	1.5
5	☐	25000.000	25684.445	2089168.08	30.8170	A	1.8
6	☐	50000.000	50872.911	4157431.01	61.0369	A	4.7
7	☐	100000.00	100364.83	8211857.45	120.4150	A	0.2
8	☐	500000.00	499791.93	43388305.47	599.6288	A	1.5

$$y = 0.0012 * x + 0.0020$$

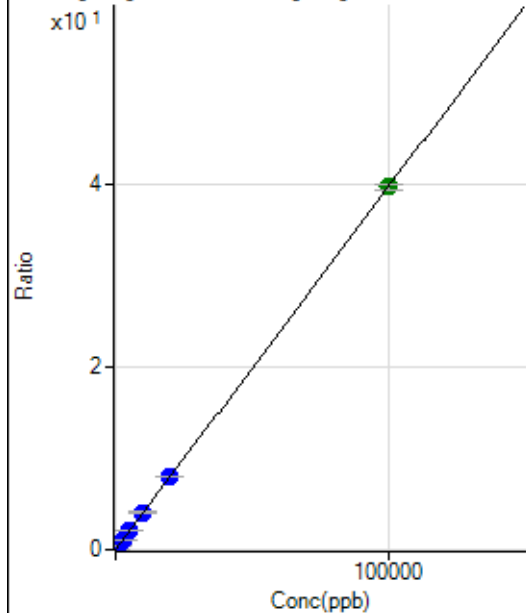
$$R = 1.0000$$

$$DL = 0.2398$$

$$BEC = 1.646$$

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	35.56	0.0005	P	36.4
2	☐	20.000	20.585	620.02	0.0087	P	6.2
3	☐	1000.000	1024.735	28893.19	0.4086	P	1.3
4	☐	2500.000	2559.764	70188.21	1.0199	P	0.9
5	☐	5000.000	5085.083	137323.52	2.0256	P	1.7
6	☐	10000.000	10186.342	276359.14	4.0572	P	4.6
7	☐	20000.000	20084.247	545481.54	7.9990	P	1.6
8	☐	100000.00	99958.521	2880656.63	39.8090	A	1.5

$$y = 3.9825E-004 * x + 4.8318E-004$$

$$R = 1.0000$$

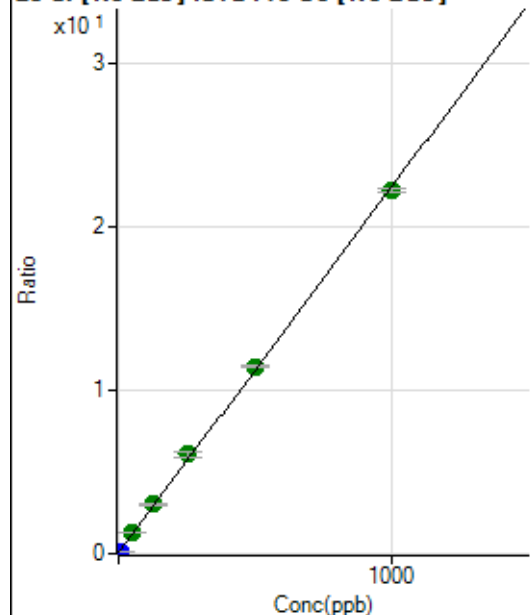
$$DL = 1.325$$

$$BEC = 1.213$$

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	152186.98	0.0608	P	1.4
2	☐	10.000	0.265	167524.69	0.0668	P	2.4
3	☐	50.000	54.016	3116360.09	1.2689	A	1.2
4	☐	125.000	131.683	7209072.53	3.0058	A	2.8
5	☐	250.000	269.715	13848605.07	6.0928	A	5.8
6	☐	500.000	508.872	26965411.82	11.4414	A	1.3
7	☐	1000.000	989.696	52849704.77	22.1947	A	1.1
8	☐			380813.28	0.1683	P	0.5

$$y = 0.0224 * x + 0.0608$$

$$R = 0.9996$$

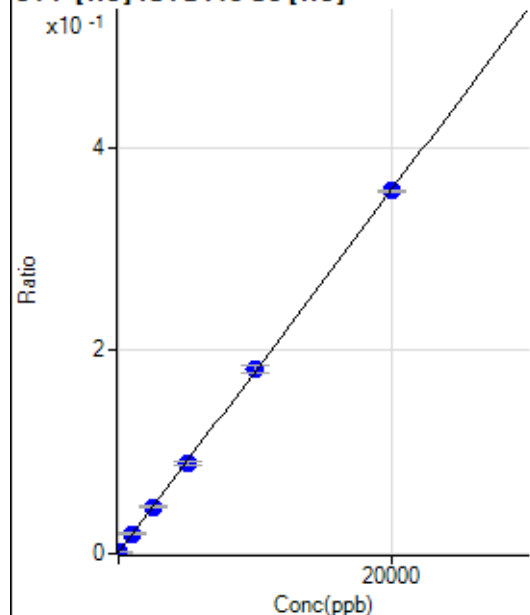
$$DL = 0.1173$$

$$BEC = 2.721$$

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	-18.499	56.67	0.0008	P	5.3
2	☐	0.000	18.499	102.22	0.0014	P	2.5
3	☐	1000.000	1032.692	1381.19	0.0195	P	7.3
4	☐	2500.000	2513.275	3164.82	0.0460	P	4.3
5	☐	5000.000	4940.008	6052.43	0.0893	P	4.2
6	☐	10000.000	10112.942	12373.14	0.1817	P	4.8
7	☐	20000.000	19955.233	24371.63	0.3574	P	0.7
8	☐			81.11	0.0011	P	4.1

$$y = 1.7854E-005 * x + 0.0011$$

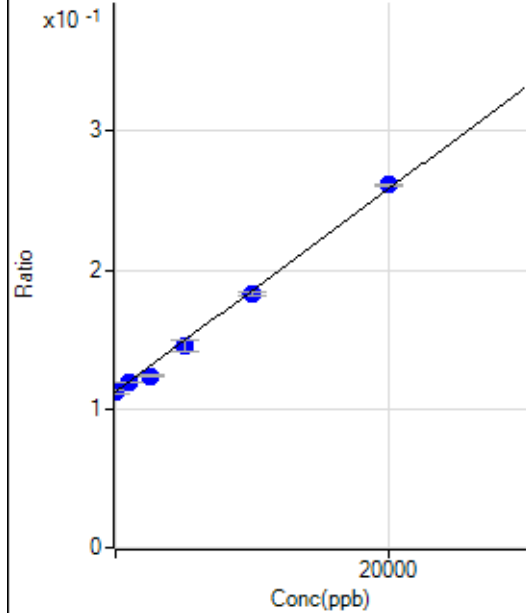
$$R = 1.0000$$

$$DL = 6.456$$

$$BEC = 61.54$$

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	25.188	281284.54	0.1125	P	2.3
2	☐	0.000	-25.188	281270.53	0.1121	P	2.0
3	☐	1000.000	952.556	292910.99	0.1193	P	0.7
4	☐	2500.000	1563.958	296809.61	0.1237	P	1.3
5	☐	5000.000	4571.220	331130.35	0.1457	P	5.9
6	☐	10000.000	9697.670	431601.76	0.1831	P	1.3
7	☐	20000.000	20377.737	621837.25	0.2611	P	0.8
8	☐			245231.28	0.1083	P	1.3

$$y = 7.3042\text{E-}006 * x + 0.1123$$

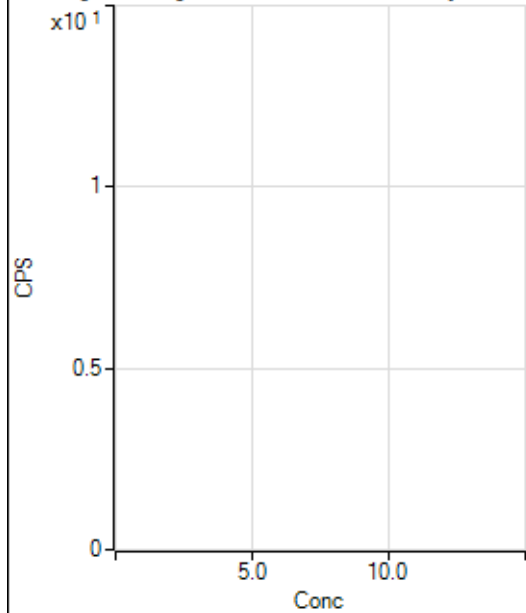
$$R = 0.9987$$

$$DL = 977.8$$

$$BEC = 1.537\text{E}+04$$

Weight: <None>

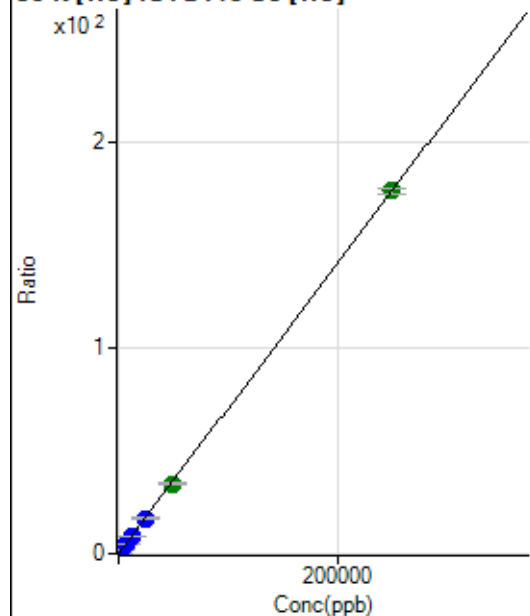
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			168583.08		P	1.1
2	☐			166026.52		P	0.5
3	☐			163973.24		P	1.7
4	☐			161600.38		P	1.0
5	☐			164425.06		P	0.4
6	☐			180501.14		P	0.4
7	☐			222929.17		P	0.7
8	☐			163541.77		P	0.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			928.93		P	5.1
2	☐			1015.60		P	4.7
3	☐			920.04		P	1.6
4	☐			953.37		P	7.7
5	☐			976.71		P	7.4
6	☐			1123.39		P	4.4
7	☐			1318.96		P	5.9
8	☐			1098.94		P	5.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5207.66	0.0706	P	3.1
2	☐	500.000	467.010	28501.51	0.3988	P	3.0
3	☐	2500.000	2433.202	125889.15	1.7803	P	2.5
4	☐	6250.000	6083.867	299043.40	4.3454	P	1.5
5	☐	12500.000	12045.977	578546.98	8.5347	P	2.4
6	☐	25000.000	24381.937	1171783.14	17.2025	P	4.6
7	☐	50000.000	48104.936	2309802.99	33.8714	A	1.5
8	☐	250000.00	250468.40	12740243.28	176.0614	A	1.7

$$y = 7.0265E-004 * x + 0.0706$$

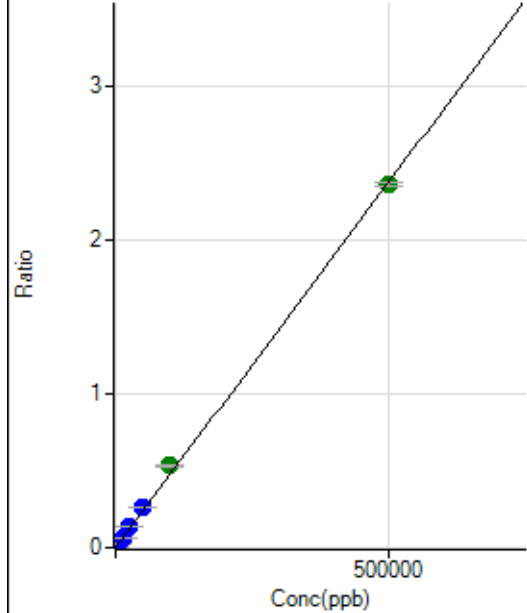
$$R = 1.0000$$

$$DL = 9.495$$

$$BEC = 100.5$$

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	161.12	0.0001	P	4.6
2	☐	500.000	477.302	5854.58	0.0023	P	1.1
3	☐	5000.000	5690.931	66595.32	0.0271	P	1.3
4	☐	12500.000	14172.763	161743.48	0.0674	P	2.7
5	☐	25000.000	28702.465	310129.88	0.1365	P	7.0
6	☐	50000.000	55499.583	621944.17	0.2639	P	1.4
7	☐	100000.00	112590.86	1274600.26	0.5353	A	1.7
8	☐	500000.00	496698.04	5344106.17	2.3612	A	1.2

$$y = 4.7538\text{E-}006 * x + 6.4370\text{E-}005$$

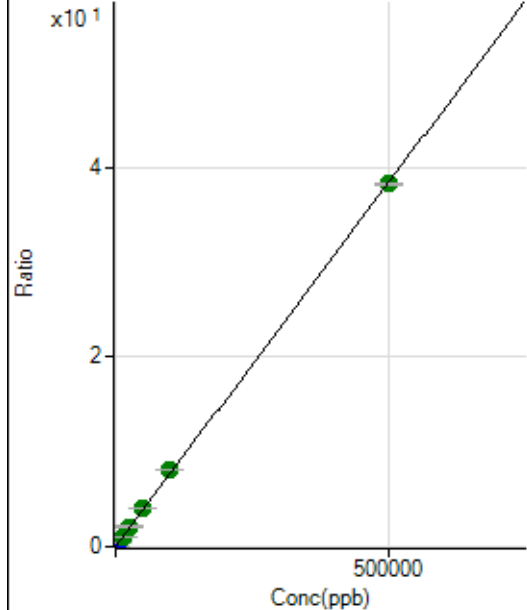
$$R = 0.9996$$

$$DL = 1.888$$

$$BEC = 13.54$$

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	13629.90	0.0055	P	1.8
2	☐	500.000	466.132	103516.83	0.0413	P	1.4
3	☐	5000.000	5485.725	1048363.97	0.4269	P	0.7
4	☐	12500.000	13743.392	2546233.37	1.0612	A	1.5
5	☐	25000.000	27667.569	4842928.47	2.1309	A	6.0
6	☐	50000.000	52976.167	9603639.58	4.0751	A	2.3
7	☐	100000.00	105738.47	19355654.16	8.1283	A	1.0
8	☐	500000.00	498385.40	86650188.15	38.2915	A	0.8

$$y = 7.6820\text{E-}005 * x + 0.0055$$

$$R = 0.9999$$

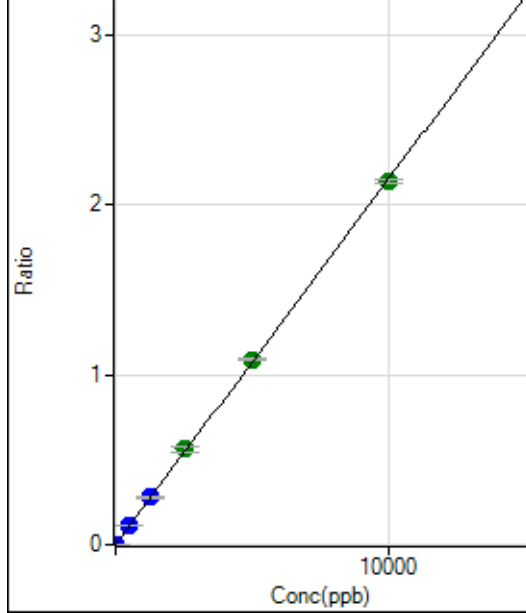
$$DL = 3.834$$

$$BEC = 70.95$$

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	62.22	0.0000	P	23.4
2	☐	5.000	4.878	2693.61	0.0011	P	2.5
3	☐	500.000	522.996	276208.68	0.1125	P	1.5
4	☐	1250.000	1299.244	670177.94	0.2794	P	1.9
5	☐	2500.000	2620.045	1280365.28	0.5634	A	6.0
6	☐	5000.000	5073.924	2571148.09	1.0910	A	1.7
7	☐	10000.000	9925.721	5081747.08	2.1341	A	1.2
8	☐			3256.08	0.0014	P	14.4

$$y = 2.1501\text{E-}004 * x + 2.4807\text{E-}005$$

$$R = 0.9999$$

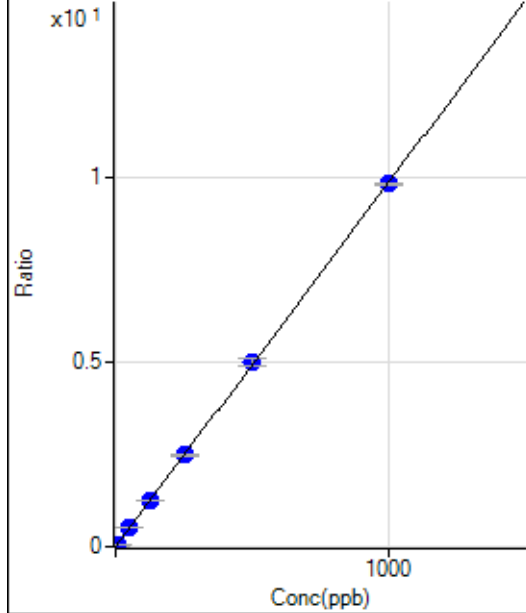
$$DL = 0.08087$$

$$BEC = 0.1154$$

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	5.56	0.0001	P	34.1
2	☐	5.000	5.099	3599.37	0.0503	P	2.1
3	☐	50.000	51.042	35591.90	0.5033	P	1.7
4	☐	125.000	126.545	85863.17	1.2477	P	1.4
5	☐	250.000	251.273	167973.25	2.4774	P	1.1
6	☐	500.000	505.439	339451.59	4.9833	P	4.4
7	☐	1000.000	996.717	670165.84	9.8270	P	0.5
8	☐			502.24	0.0069	P	5.7

$$y = 0.0099 * x + 7.5217\text{E-}005$$

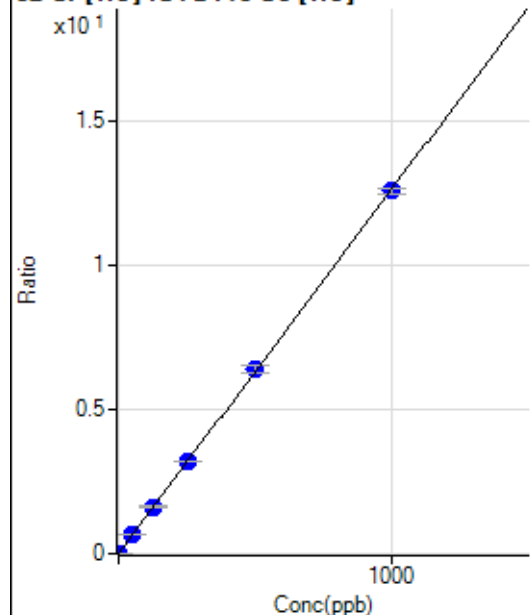
$$R = 1.0000$$

$$DL = 0.007802$$

$$BEC = 0.007629$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	428.90	0.0058	P	1.8
2	☐	2.000	2.066	2279.09	0.0319	P	6.8
3	☐	50.000	51.220	46165.34	0.6528	P	1.4
4	☐	125.000	127.611	111323.58	1.6178	P	2.4
5	☐	250.000	252.807	216900.08	3.1993	P	1.6
6	☐	500.000	505.328	435204.32	6.3892	P	4.6
7	☐	1000.000	996.247	858621.42	12.5905	P	1.4
8	☐			20662.79	0.2855	P	1.4

$$y = 0.0126 * x + 0.0058$$

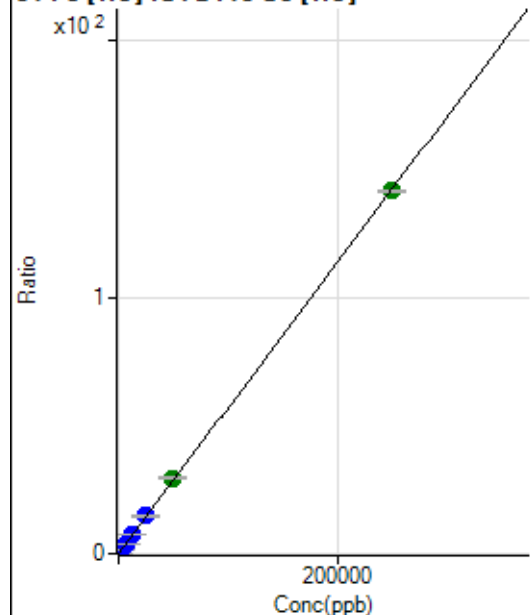
$$R = 1.0000$$

$$DL = 0.02429$$

$$BEC = 0.4605$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	158.89	0.0022	P	28.7
2	☐	50.000	50.089	2182.41	0.0305	P	4.2
3	☐	2500.000	2641.348	105998.92	1.4990	P	1.8
4	☐	6250.000	6598.344	257451.73	3.7414	P	2.1
5	☐	12500.000	13090.537	503029.18	7.4205	P	2.2
6	☐	25000.000	26151.053	1009703.71	14.8217	P	4.0
7	☐	50000.000	52032.208	2010935.58	29.4884	A	1.1
8	☐	250000.00	249438.80	10228124.43	141.3571	A	0.5

$$y = 5.6669E-004 * x + 0.0022$$

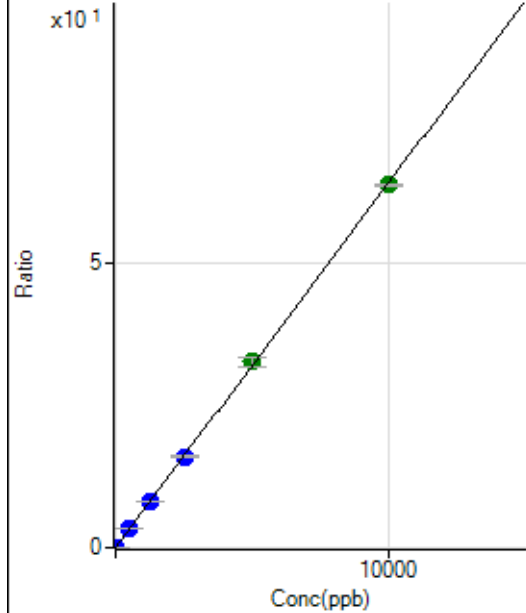
$$R = 1.0000$$

$$DL = 3.275$$

$$BEC = 3.805$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	76.67	0.0010	P	26.4
2	☐	1.000	1.015	541.13	0.0076	P	10.2
3	☐	500.000	506.796	230452.61	3.2589	P	1.7
4	☐	1250.000	1260.203	557558.36	8.1022	P	1.3
5	☐	2500.000	2498.320	1088812.07	16.0613	P	1.9
6	☐	5000.000	5100.587	2233344.15	32.7899	A	4.8
7	☐	10000.000	9948.512	4361468.62	63.9544	A	0.4
8	☐			4827.55	0.0667	P	3.3

$$y = 0.0064 * x + 0.0010$$

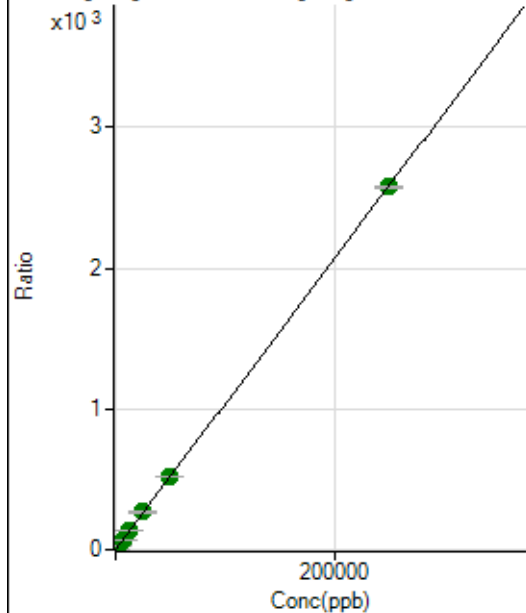
$$R = 0.9999$$

$$DL = 0.1277$$

$$BEC = 0.1615$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1364.52	0.0185	P	4.8
2	☐	50.000	50.756	38764.83	0.5424	P	3.3
3	☐	2500.000	2695.774	1969006.20	27.8450	A	2.0
4	☐	6250.000	6612.428	4698240.07	68.2737	A	1.6
5	☐	12500.000	13051.297	9132589.38	134.7373	A	3.0
6	☐	25000.000	26078.427	18333549.17	269.2066	A	5.4
7	☐	50000.000	50528.018	35568948.36	521.5815	A	1.1
8	☐	250000.00	249747.97	186538286.1	2577.980	A	0.5

$$y = 0.0103 * x + 0.0185$$

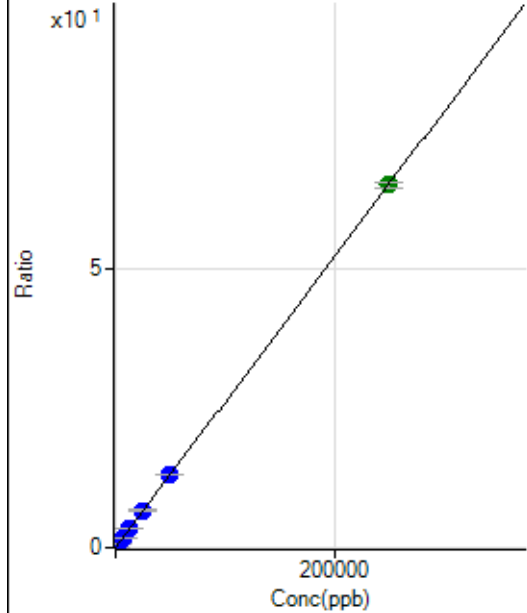
$$R = 1.0000$$

$$DL = 0.2571$$

$$BEC = 1.792$$

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	74.44	0.0010	P	7.0
2	☐	50.000	51.973	1038.94	0.0145	P	1.2
3	☐	2500.000	2609.785	48079.78	0.6799	P	0.5
4	☐	6250.000	6447.655	115484.74	1.6782	P	2.0
5	☐	12500.000	12756.684	225057.59	3.3194	P	1.1
6	☐	25000.000	25573.170	453241.94	6.6533	P	4.1
7	☐	50000.000	50024.383	887474.23	13.0138	P	0.7
8	☐	250000.00	249918.93	4704334.37	65.0120	A	1.7

$$y = 2.6013E-004 * x + 0.0010$$

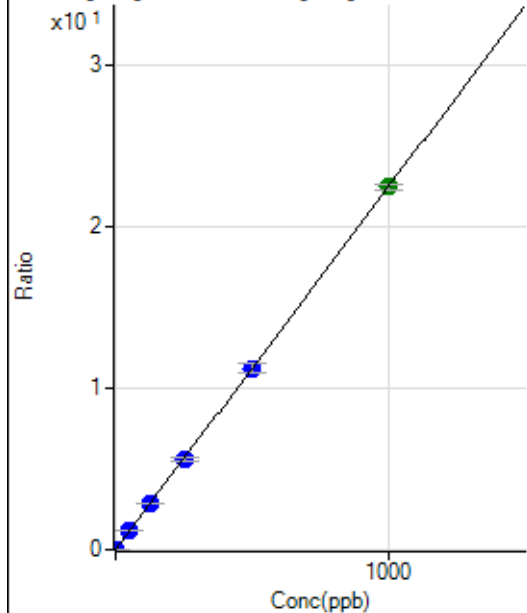
$$R = 1.0000$$

$$DL = 0.812$$

$$BEC = 3.882$$

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	70.00	0.0009	P	12.3
2	☐	1.000	1.048	1753.46	0.0245	P	2.2
3	☐	50.000	50.738	80748.50	1.1419	P	1.0
4	☐	125.000	126.920	196476.95	2.8550	P	0.6
5	☐	250.000	249.077	379724.15	5.6019	P	2.8
6	☐	500.000	500.607	766852.16	11.2579	P	4.5
7	☐	1000.000	999.651	1532954.86	22.4798	A	1.9
8	☐			4704.16	0.0650	P	1.8

$$y = 0.0225 * x + 9.4913E-004$$

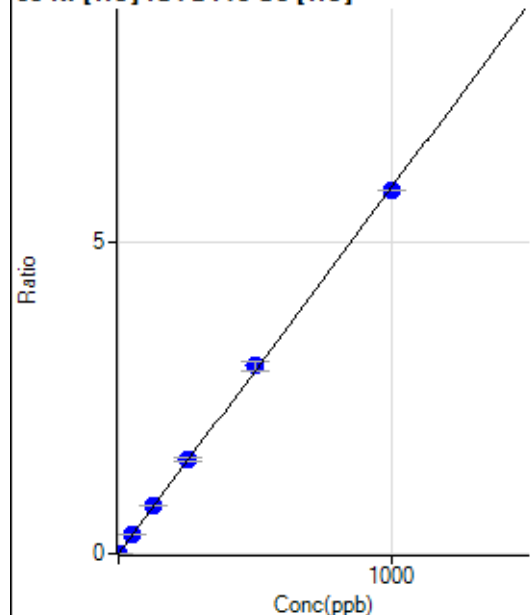
$$R = 1.0000$$

$$DL = 0.01556$$

$$BEC = 0.04221$$

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	61.11	0.0008	P	7.5
2	☐	1.000	1.038	493.35	0.0069	P	10.2
3	☐	50.000	53.765	22347.58	0.3160	P	1.1
4	☐	125.000	131.407	53067.33	0.7712	P	2.1
5	☐	250.000	257.367	102333.42	1.5096	P	2.5
6	☐	500.000	512.263	204617.55	3.0039	P	4.4
7	☐	1000.000	991.037	396264.33	5.8106	P	0.0
8	☐			6445.96	0.0891	P	1.8

$$y = 0.0059 * x + 8.2851E-004$$

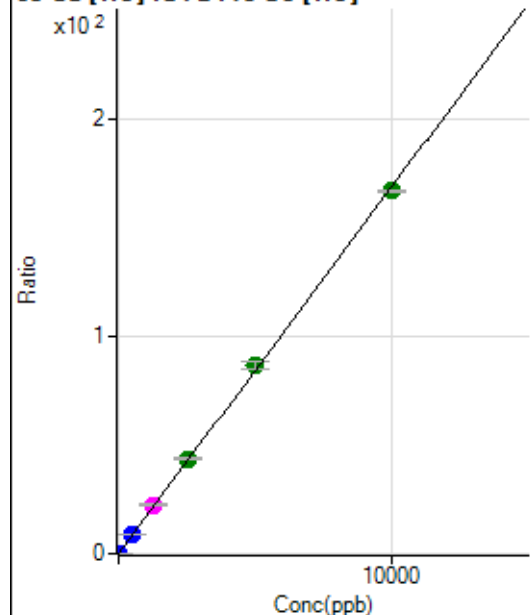
$$R = 0.9999$$

$$DL = 0.03185$$

$$BEC = 0.1413$$

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	825.59	0.0112	P	13.1
2	☐	2.000	2.108	3338.20	0.0467	P	7.0
3	☐	500.000	523.248	624607.86	8.8325	P	0.7
4	☐	1250.000	1327.768	1540975.65	22.3958	M	3.3
5	☐	2500.000	2594.891	2966432.91	43.7580	A	1.7
6	☐	5000.000	5135.173	5898705.33	86.5842	A	4.0
7	☐	10000.000	9897.807	11380344.97	166.8766	A	0.2
8	☐			6520.52	0.0901	P	2.4

$$y = 0.0169 * x + 0.0112$$

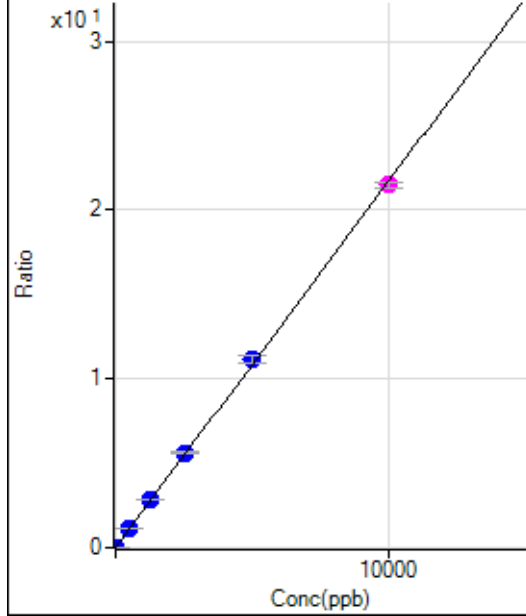
$$R = 0.9998$$

$$DL = 0.2607$$

$$BEC = 0.6645$$

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	260.00	0.0035	P	7.1
2	☐	2.000	5.711	1137.83	0.0159	P	5.7
3	☐	500.000	535.828	82472.65	1.1662	P	0.5
4	☐	1250.000	1313.754	196411.27	2.8543	P	2.1
5	☐	2500.000	2588.417	381010.47	5.6202	P	1.7
6	☐	5000.000	5127.907	758188.85	11.1306	P	4.4
7	☐	10000.000	9904.181	1465910.10	21.4947	M	1.4
8	☐			1589.00	0.0220	P	4.0

$$y = 0.0022 * x + 0.0035$$

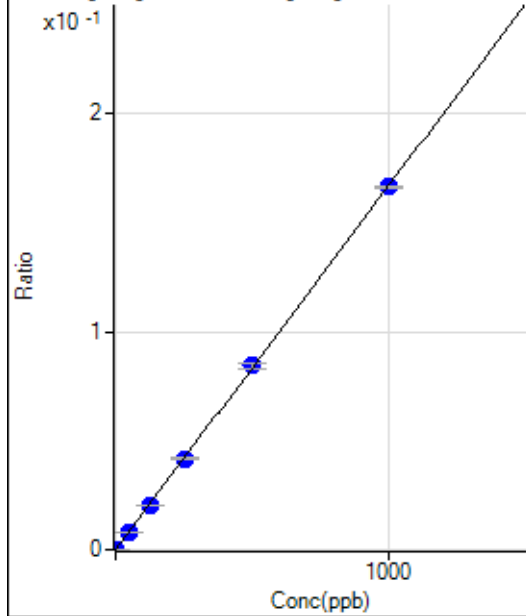
$$R = 0.9998$$

$$DL = 0.3447$$

$$BEC = 1.626$$

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	1.11	0.0000	P	173.
2	☐	1.000	1.096	92.22	0.0002	P	31.6
3	☐	50.000	49.534	4047.28	0.0083	P	2.3
4	☐	125.000	122.846	9770.14	0.0205	P	1.5
5	☐	250.000	249.476	19549.19	0.0416	P	2.4
6	☐	500.000	505.878	39099.74	0.0844	P	3.5
7	☐	1000.000	997.485	76420.09	0.1664	P	0.7
8	☐			76.67	0.0002	P	36.0

$$y = 1.6684E-004 * x + 2.1880E-006$$

$$R = 1.0000$$

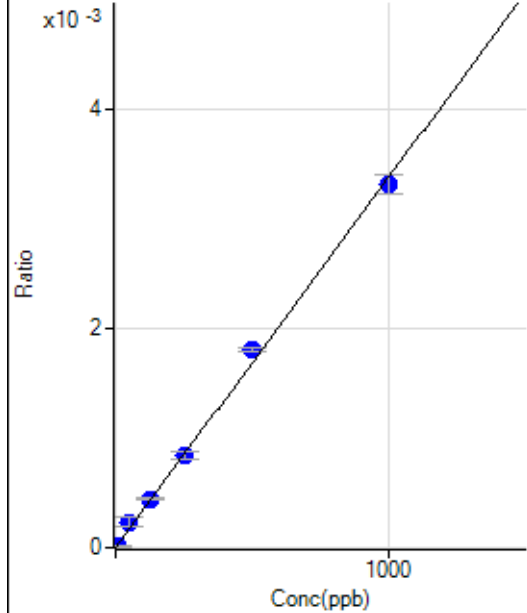
$$DL = 0.06814$$

$$BEC = 0.01311$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.592	7.78	0.0000	P	97.2
3	☐	50.000	67.845	112.22	0.0002	P	37.8
4	☐	125.000	131.836	212.22	0.0004	P	3.9
5	☐	250.000	248.638	394.45	0.0008	P	7.8
6	☐	500.000	536.145	840.03	0.0018	P	1.8
7	☐	1000.000	980.523	1521.21	0.0033	P	5.5
8	☐			1.11	0.0000	P	173.

$$y = 3.3778\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9989$$

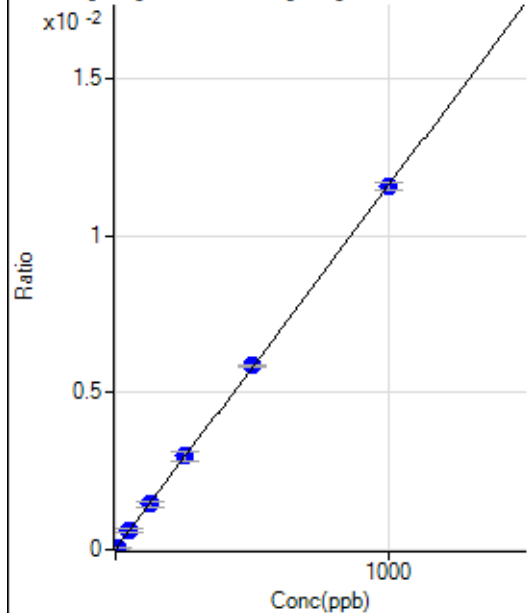
$$DL = 0$$

$$BEC = 0$$

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	4.44	0.0000	P	43.1
2	☐	5.000	4.525	30.00	0.0001	P	44.2
3	☐	50.000	51.064	294.45	0.0006	P	14.3
4	☐	125.000	124.336	692.25	0.0015	P	12.8
5	☐	250.000	255.685	1397.86	0.0030	P	8.4
6	☐	500.000	504.994	2721.40	0.0059	P	1.1
7	☐	1000.000	996.114	5312.17	0.0116	P	2.1
8	☐			3.33	0.0000	P	1.1

$$y = 1.1605\text{E-}005 * x + 8.7564\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.9762$$

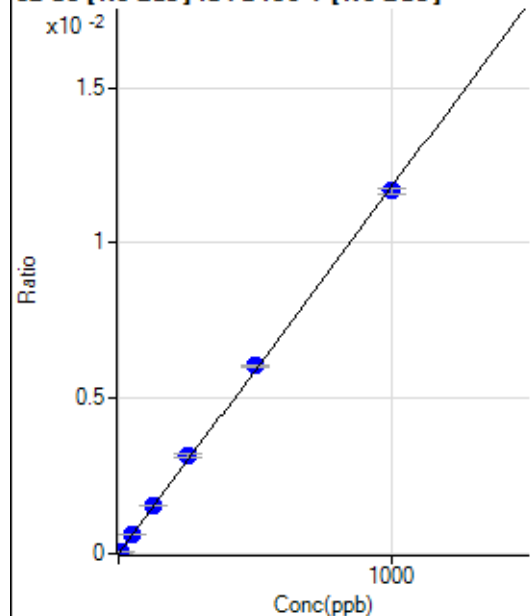
$$BEC = 0.7545$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1900.15		P	6.8
2	☐			1881.26		P	4.9
3	☐			1747.91		P	4.1
4	☐			1731.23		P	2.6
5	☐			1689.01		P	1.7
6	☐			1721.24		P	2.6
7	☐			1703.45		P	6.7
8	☐			1512.32		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.89	0.0000	P	21.0
2	☐	5.000	4.388	313.34	0.0001	P	9.9
3	☐	50.000	52.691	3551.62	0.0006	P	2.9
4	☐	125.000	130.679	8431.56	0.0015	P	2.6
5	☐	250.000	267.167	16595.62	0.0032	P	4.8
6	☐	500.000	511.268	32758.57	0.0060	P	1.1
7	☐	1000.000	989.233	63915.36	0.0117	P	1.4
8	☐			36.67	0.0000	P	118.

$$y = 1.1801E-005 * x + 3.3385E-006$$

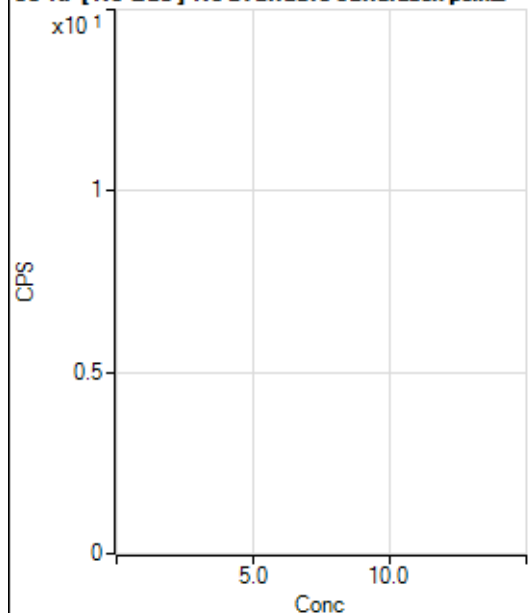
$$R = 0.9997$$

$$DL = 0.1782$$

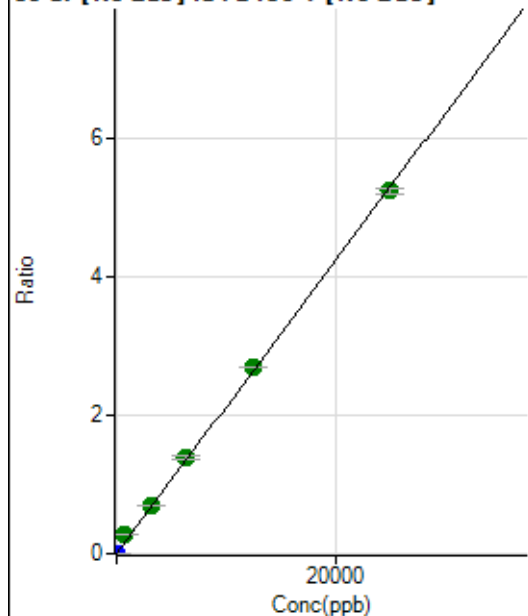
$$BEC = 0.2829$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			134.45		P	15.1
2	☐			151.12		P	17.7
3	☐			130.00		P	11.2
4	☐			123.34		P	9.7
5	☐			125.56		P	20.1
6	☐			107.78		P	14.6
7	☐			128.89		P	21.1
8	☐			131.11		P	3.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	302.23	0.0001	P	14.1
2	☐	1.000	0.927	1415.64	0.0002	P	1.2
3	☐	625.000	1293.581	1550993.54	0.2730	A	1.6
4	☐	3125.000	3234.953	3724876.51	0.6826	A	0.3
5	☐	6250.000	6551.511	7270755.03	1.3824	A	4.1
6	☐	12500.000	12698.891	14539954.51	2.6794	A	0.2
7	☐	25000.000	24794.718	28635602.35	5.2316	A	1.4
8	☐			15432.84	0.0030	P	11.3

$$y = 2.1099\text{E-}004 * x + 5.3366\text{E-}005$$

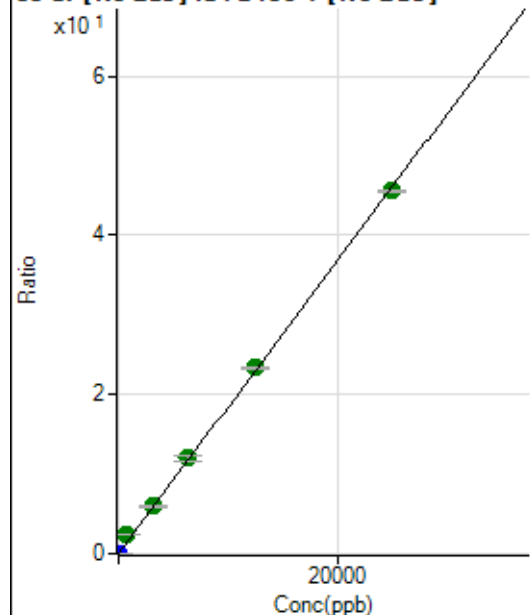
$$R = 0.9996$$

$$DL = 0.1071$$

$$BEC = 0.2529$$

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	523.35	0.0001	P	9.4
2	☐	1.000	0.950	10451.76	0.0018	P	1.3
3	☐	625.000	1278.088	13343017.86	2.3485	A	0.5
4	☐	3125.000	3227.117	32352694.52	5.9296	A	1.6
5	☐	6250.000	6506.843	62840047.40	11.9558	A	5.8
6	☐	12500.000	12721.483	126833692.5	23.3746	A	1.4
7	☐	25000.000	24795.956	249399971.8	45.5603	A	0.2
8	☐			135902.57	0.0262	P	16.9

$$y = 0.0018 * x + 9.2403E-005$$

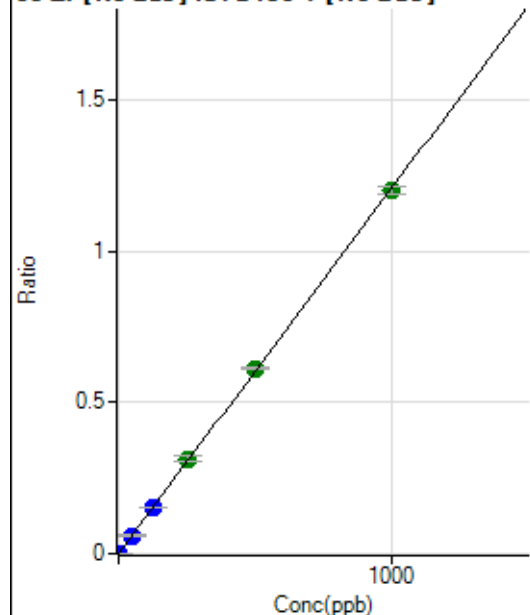
$$R = 0.9996$$

$$DL = 0.01419$$

$$BEC = 0.05029$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	262.23	0.0000	P	10.5
2	☐	1.000	0.899	6445.99	0.0011	P	3.5
3	☐	50.000	49.940	343406.61	0.0604	P	0.3
4	☐	125.000	127.617	842362.48	0.1544	P	1.0
5	☐	250.000	260.498	1656573.34	0.3151	A	5.1
6	☐	500.000	507.467	3330319.08	0.6138	A	1.2
7	☐	1000.000	993.318	6574920.25	1.2013	A	2.1
8	☐			5521.24	0.0011	P	9.8

$$y = 0.0012 * x + 4.6297E-005$$

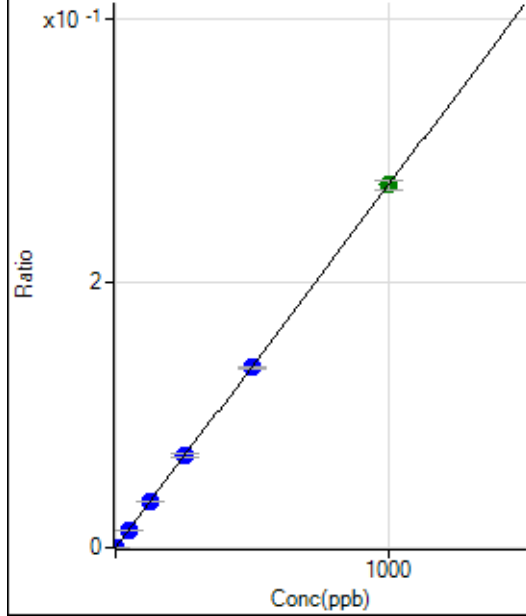
$$R = 0.9999$$

$$DL = 0.01204$$

$$BEC = 0.03828$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	46.67	0.0000	P	25.2
2	☐	1.000	0.876	1412.31	0.0002	P	5.6
3	☐	50.000	49.767	77591.28	0.0137	P	1.2
4	☐	125.000	126.670	189569.03	0.0347	P	1.6
5	☐	250.000	255.317	368116.18	0.0700	P	5.3
6	☐	500.000	496.434	738743.37	0.1361	P	0.8
7	☐	1000.000	1000.257	1501247.86	0.2743	A	2.3
8	☐			1210.07	0.0002	P	15.5

$$y = 2.7422\text{E-}004 * x + 8.2332\text{E-}006$$

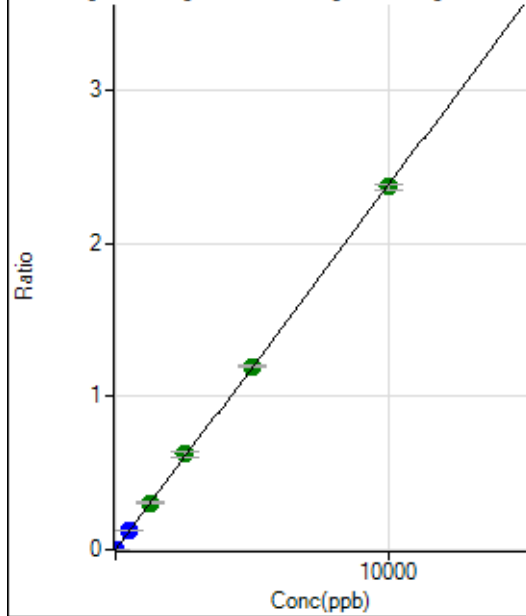
$$R = 1.0000$$

$$DL = 0.02271$$

$$BEC = 0.03002$$

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	85.55	0.0000	P	19.1
2	☐	5.000	5.557	7615.49	0.0013	P	4.8
3	☐	500.000	509.039	689557.39	0.1214	P	1.0
4	☐	1250.000	1290.537	1678648.55	0.3077	A	2.1
5	☐	2500.000	2611.846	3273426.20	0.6227	A	5.2
6	☐	5000.000	5031.844	6509303.86	1.1996	A	0.9
7	☐	10000.000	9950.597	12983512.72	2.3721	A	1.6
8	☐			10767.08	0.0021	P	4.6

$$y = 2.3839\text{E-}004 * x + 1.5098\text{E-}005$$

$$R = 0.9999$$

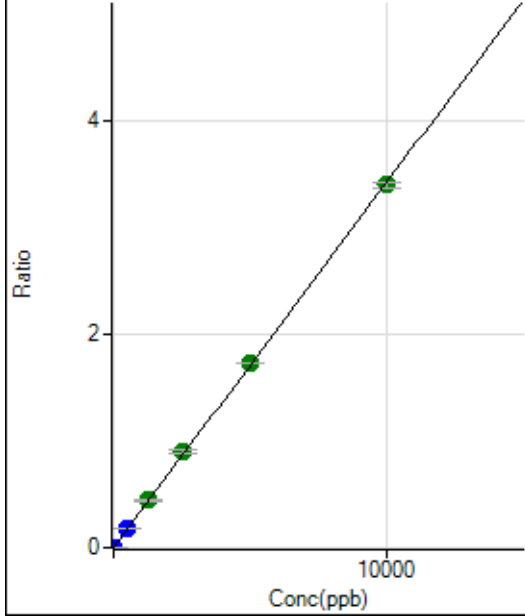
$$DL = 0.03638$$

$$BEC = 0.06333$$

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	23.34	0.0000	P	25.2
2	☐	5.000	4.744	9237.58	0.0016	P	0.7
3	☐	500.000	507.710	985306.90	0.1734	P	0.3
4	☐	1250.000	1293.420	2410271.72	0.4418	A	2.1
5	☐	2500.000	2622.113	4711781.53	0.8956	A	3.3
6	☐	5000.000	5054.018	9367115.35	1.7262	A	0.7
7	☐	10000.000	9936.650	18575613.61	3.3939	A	1.7
8	☐			15078.58	0.0029	P	12.9

$$y = 3.4155\text{E-}004 * x + 4.1244\text{E-}006$$

$$R = 0.9999$$

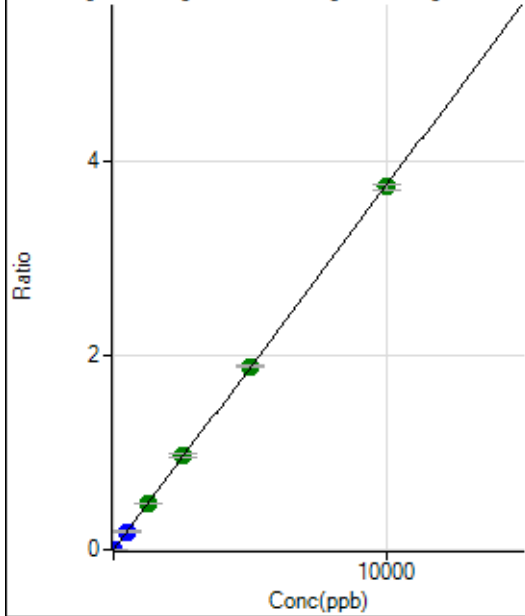
$$DL = 0.009135$$

$$BEC = 0.01208$$

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	72.22	0.0000	P	17.6
2	☐	5.000	4.846	10437.32	0.0018	P	2.8
3	☐	500.000	501.049	1070972.43	0.1885	P	0.5
4	☐	1250.000	1280.765	2628704.09	0.4818	A	1.8
5	☐	2500.000	2596.175	5138105.69	0.9766	A	3.3
6	☐	5000.000	5035.362	10278278.32	1.8942	A	0.8
7	☐	10000.000	9954.377	20496494.28	3.7446	A	1.2
8	☐			16432.22	0.0032	P	14.0

$$y = 3.7617\text{E-}004 * x + 1.2754\text{E-}005$$

$$R = 0.9999$$

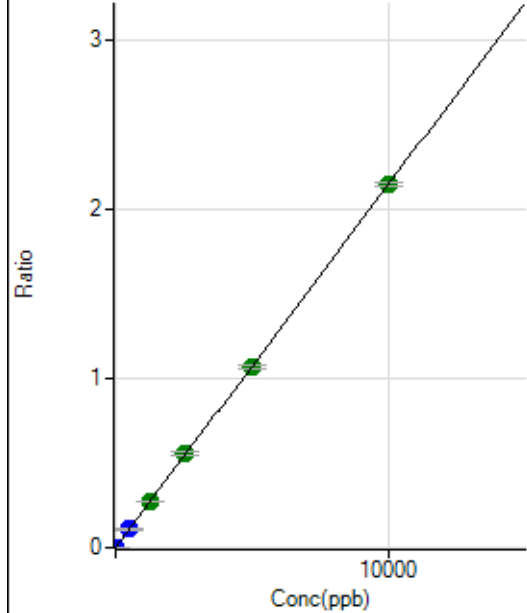
$$DL = 0.01787$$

$$BEC = 0.0339$$

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	17.78	0.0000	P	38.5
2	☐	5.000	4.621	5667.88	0.0010	P	1.8
3	☐	500.000	502.989	614514.83	0.1082	P	0.6
4	☐	1250.000	1272.826	1493501.18	0.2737	A	0.9
5	☐	2500.000	2579.361	2917475.51	0.5546	A	3.8
6	☐	5000.000	4987.016	5818612.34	1.0723	A	2.5
7	☐	10000.000	9983.649	11750918.16	2.1468	A	0.9
8	☐			9555.11	0.0018	P	13.8

$$y = 2.1503\text{E-}004 * x + 3.1336\text{E-}006$$

$$R = 1.0000$$

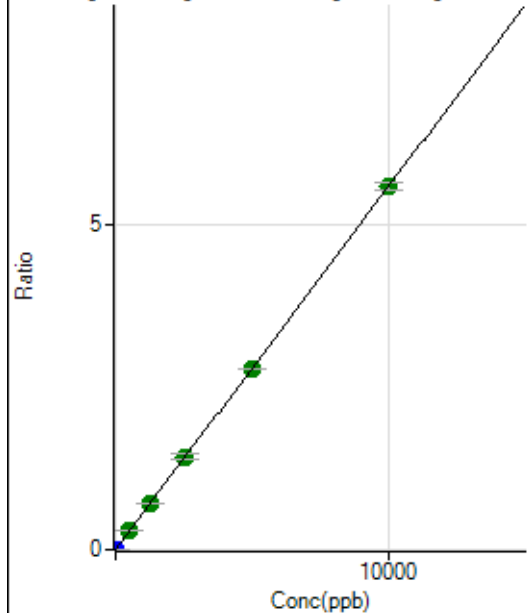
$$DL = 0.01685$$

$$BEC = 0.01457$$

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	44.44	0.0000	P	28.0
2	☐	5.000	4.645	14836.92	0.0026	P	1.0
3	☐	500.000	507.097	1613773.64	0.2840	A	0.5
4	☐	1250.000	1271.757	3886895.57	0.7123	A	0.6
5	☐	2500.000	2563.757	7550055.51	1.4359	A	4.8
6	☐	5000.000	4980.902	15137832.83	2.7897	A	0.9
7	☐	10000.000	9990.535	30625020.10	5.5955	A	2.0
8	☐			24055.72	0.0046	P	12.5

$$y = 5.6008\text{E-}004 * x + 7.8396\text{E-}006$$

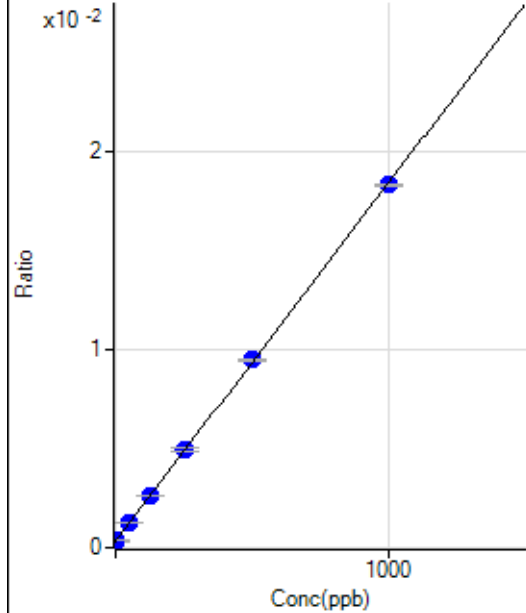
$$R = 1.0000$$

$$DL = 0.01176$$

$$BEC = 0.014$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1987.94	0.0003	P	1.5
2	☐	1.000	1.253	2132.40	0.0003	P	4.3
3	☐	50.000	53.286	7847.86	0.0013	P	1.7
4	☐	125.000	128.505	16095.02	0.0026	P	1.0
5	☐	250.000	256.186	28835.73	0.0050	P	4.7
6	☐	500.000	506.419	56404.58	0.0095	P	1.2
7	☐	1000.000	994.641	108555.15	0.0183	P	0.9
8	☐			1726.80	0.0003	P	4.3

$$y = 1.8059\text{E-}005 * x + 3.2528\text{E-}004$$

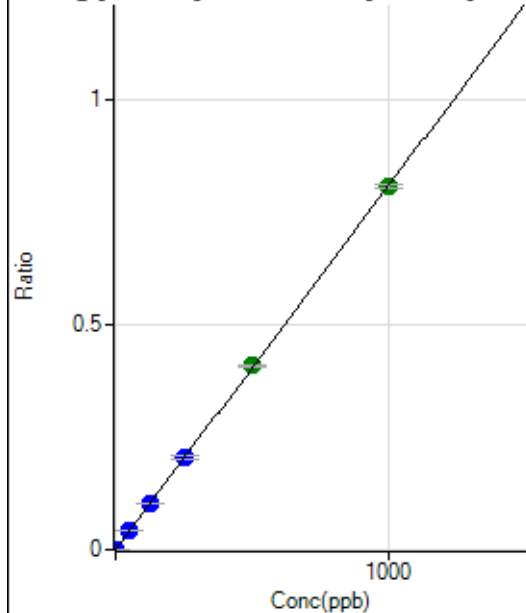
$$R = 0.9999$$

$$DL = 0.8028$$

$$BEC = 18.01$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	93.33	0.0000	P	24.0
2	☐	1.000	0.926	4687.51	0.0008	P	1.9
3	☐	50.000	51.567	254767.92	0.0418	P	1.1
4	☐	125.000	124.552	613996.02	0.1009	P	0.6
5	☐	250.000	253.236	1194533.19	0.2052	P	5.6
6	☐	500.000	504.632	2435325.19	0.4089	A	0.6
7	☐	1000.000	996.853	4794918.33	0.8077	A	1.0
8	☐			1050.06	0.0002	P	16.1

$$y = 8.1028\text{E-}004 * x + 1.5293\text{E-}005$$

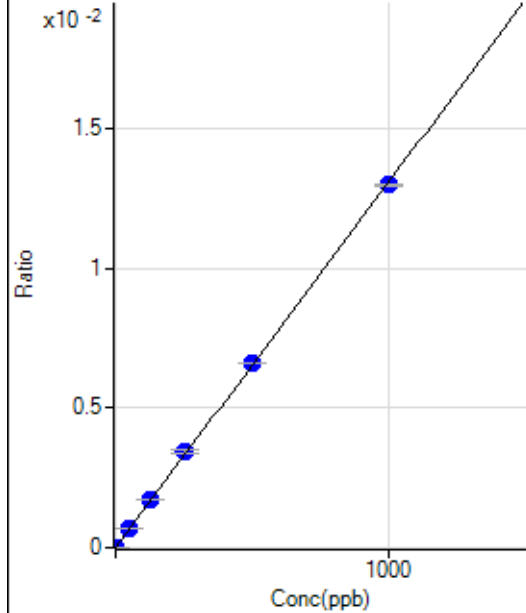
$$R = 1.0000$$

$$DL = 0.01362$$

$$BEC = 0.01887$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.67	0.0000	P	50.4
2	☐	1.000	1.066	92.22	0.0000	P	17.0
3	☐	50.000	53.197	4248.48	0.0007	P	3.0
4	☐	125.000	130.972	10428.49	0.0017	P	1.9
5	☐	250.000	263.332	20069.14	0.0034	P	4.4
6	☐	500.000	505.332	39377.15	0.0066	P	0.3
7	☐	1000.000	993.095	77125.45	0.0130	P	0.6
8	☐			115.56	0.0000	P	9.2

$$y = 1.3081\text{E-}005 * x + 1.0944\text{E-}006$$

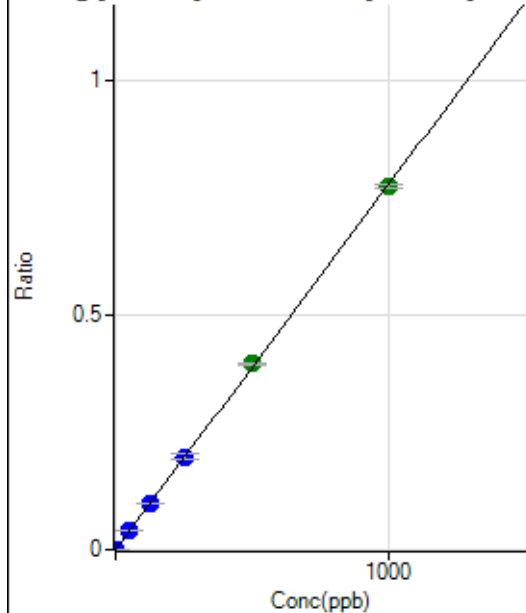
$$R = 0.9999$$

$$DL = 0.1266$$

$$BEC = 0.08366$$

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	57.78	0.0000	P	39.8
2	☐	1.000	0.943	4548.57	0.0007	P	3.5
3	☐	50.000	52.408	248420.41	0.0408	P	0.8
4	☐	125.000	125.849	595280.62	0.0979	P	1.2
5	☐	250.000	255.254	1155126.53	0.1985	P	6.1
6	☐	500.000	509.306	2358510.75	0.3960	A	0.6
7	☐	1000.000	993.807	4586996.84	0.7727	A	1.1
8	☐			956.72	0.0002	P	18.1

$$y = 7.7753\text{E-}004 * x + 9.4875\text{E-}006$$

$$R = 0.9999$$

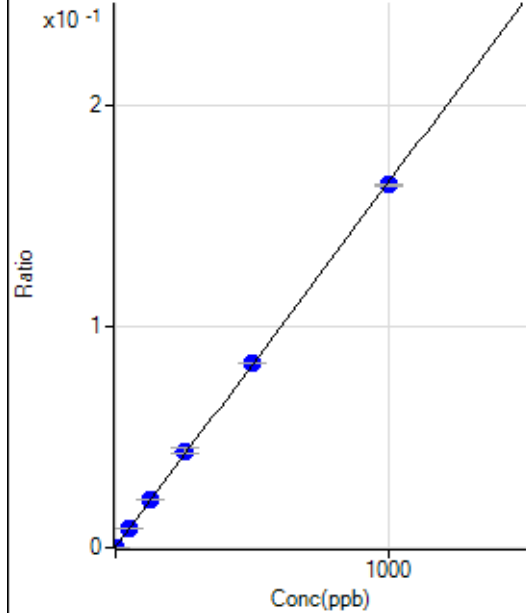
$$DL = 0.01459$$

$$BEC = 0.0122$$

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	1392.45	0.0002	P	1.0
2	☐	1.000	1.008	2414.84	0.0004	P	1.1
3	☐	50.000	52.500	54163.96	0.0089	P	0.7
4	☐	125.000	129.040	130843.61	0.0215	P	0.9
5	☐	250.000	262.703	253515.85	0.0436	P	5.8
6	☐	500.000	506.406	498778.84	0.0837	P	0.2
7	☐	1000.000	992.991	973507.11	0.1640	P	0.7
8	☐			1713.45	0.0003	P	5.2

$$y = 1.6493\text{E-}004 * x + 2.2784\text{E-}004$$

$$R = 0.9999$$

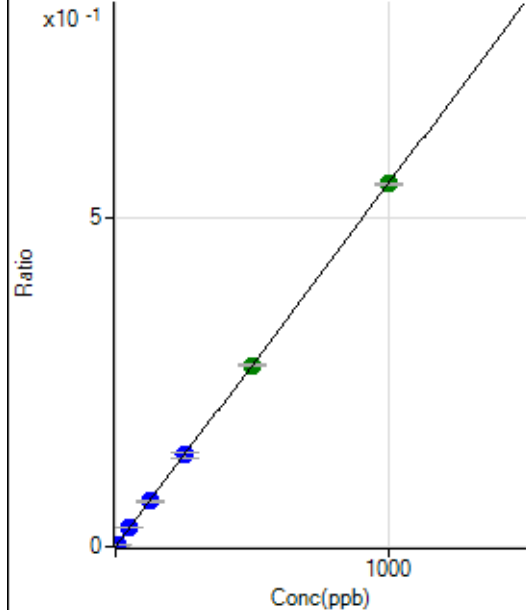
$$DL = 0.04133$$

$$BEC = 1.381$$

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	531.13	0.0001	P	7.2
2	☐	5.000	4.698	16443.31	0.0027	P	2.9
3	☐	50.000	50.832	171824.84	0.0282	P	0.6
4	☐	125.000	124.511	419273.23	0.0689	P	1.8
5	☐	250.000	252.902	814362.95	0.1399	P	5.9
6	☐	500.000	500.232	1647642.80	0.2767	A	1.2
7	☐	1000.000	999.179	3279839.33	0.5525	A	0.4
8	☐			4128.51	0.0007	P	10.7

$$y = 5.5288\text{E-}004 * x + 8.6874\text{E-}005$$

$$R = 1.0000$$

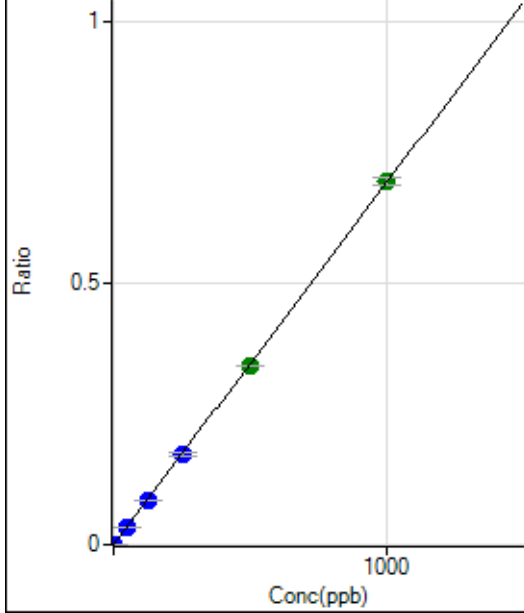
$$DL = 0.03392$$

$$BEC = 0.1571$$

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	30.00	0.0000	P	39.5
2	☐	2.000	1.863	7930.14	0.0013	P	1.2
3	☐	50.000	49.997	211015.84	0.0346	P	0.1
4	☐	125.000	122.765	517056.41	0.0850	P	1.2
5	☐	250.000	249.432	1005271.47	0.1727	P	5.7
6	☐	500.000	494.928	2040813.96	0.3427	A	0.7
7	☐	1000.000	1002.958	4121882.20	0.6944	A	2.1
8	☐			4380.86	0.0008	P	19.9

$$y = 6.9235E-004 * x + 4.9283E-006$$

$$R = 1.0000$$

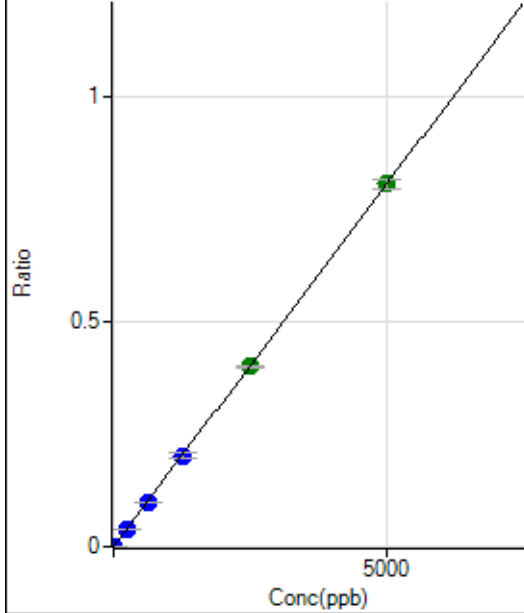
$$DL = 0.008427$$

$$BEC = 0.007118$$

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	67.78	0.0000	P	18.8
2	☐	10.000	9.231	9173.19	0.0015	P	1.8
3	☐	250.000	249.481	244921.87	0.0402	P	0.9
4	☐	625.000	614.300	601776.86	0.0989	P	0.6
5	☐	1250.000	1255.048	1176701.29	0.2021	P	5.2
6	☐	2500.000	2485.393	2383558.63	0.4002	A	1.0
7	☐	5000.000	5007.407	4786299.03	0.8063	A	2.5
8	☐			3882.98	0.0007	P	14.0

$$y = 1.6102E-004 * x + 1.1093E-005$$

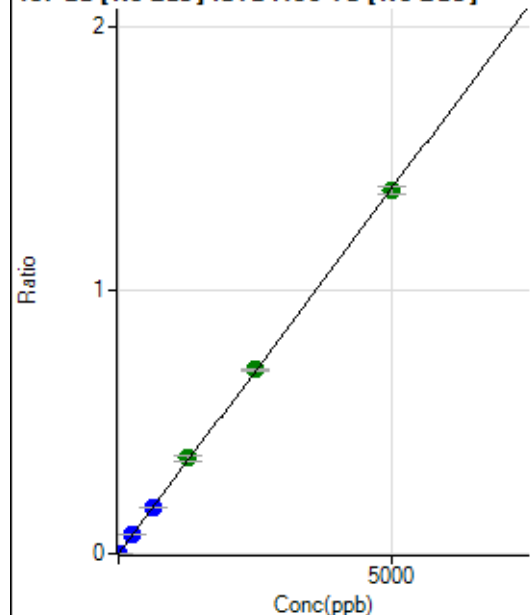
$$R = 1.0000$$

$$DL = 0.03884$$

$$BEC = 0.06889$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	76.67	0.0000	P	7.1
2	☐	10.000	9.383	16010.67	0.0026	P	1.7
3	☐	250.000	253.450	428303.97	0.0703	P	0.7
4	☐	625.000	627.779	1058664.93	0.1740	P	0.4
5	☐	1250.000	1309.430	2113047.74	0.3630	A	5.6
6	☐	2500.000	2523.871	4167002.12	0.6996	A	1.2
7	☐	5000.000	4972.689	8182695.99	1.3785	A	2.0
8	☐			6845.70	0.0012	P	16.4

$$y = 2.7721E-004 * x + 1.2536E-005$$

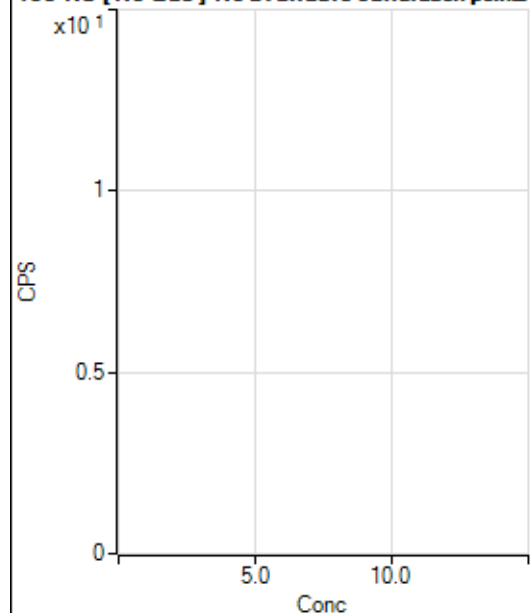
$$R = 0.9999$$

$$DL = 0.009696$$

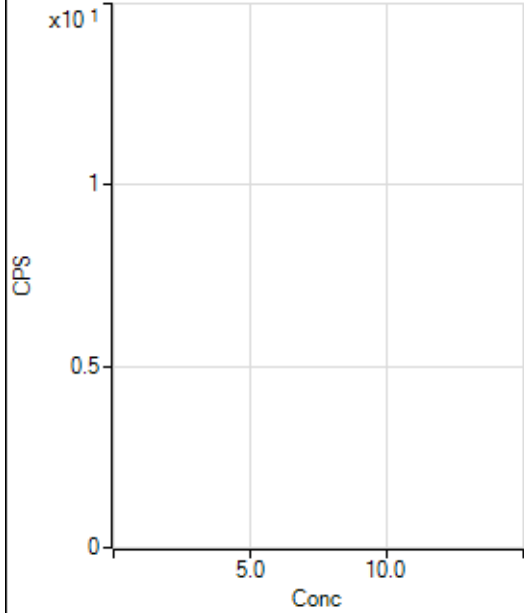
$$BEC = 0.04522$$

Weight: <None>

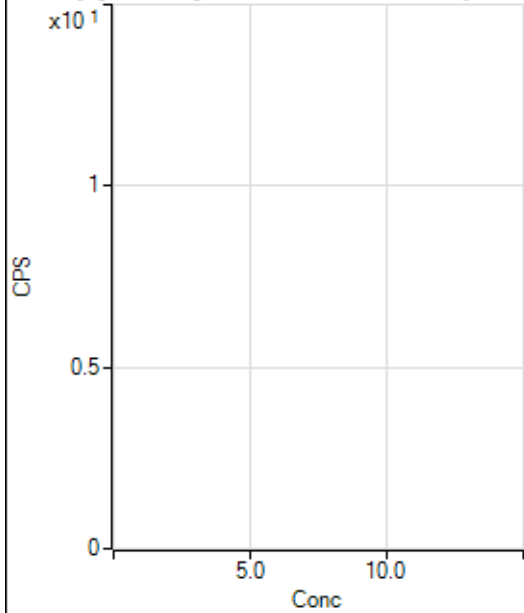
Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			3.33		P	100.
3	☐			33.33		P	20.0
4	☐			63.34		P	9.1
5	☐			114.45		P	20.5
6	☐			178.89		P	10.8
7	☐			397.79		P	15.5
8	☐			121.11		P	6.4

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			3.33		P	100.
5	☐			13.33		P	43.3
6	☐			20.00		P	57.7
7	☐			68.89		P	21.8
8	☐			30.00		P	29.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	56.8
2	☐			13.33		P	75.0
3	☐			34.45		P	59.1
4	☐			65.56		P	21.2
5	☐			113.34		P	10.6
6	☐			187.78		P	6.7
7	☐			400.01		P	7.4
8	☐			164.45		P	27.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			10.00		P	57.7
4	☐			27.78		P	56.7
5	☐			54.45		P	28.9
6	☐			75.56		P	31.3
7	☐			186.67		P	12.4
8	☐			67.78		P	15.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.34		P	9.1
2	☐			42.22		P	29.9
3	☐			53.33		P	16.5
4	☐			94.45		P	30.8
5	☐			107.78		P	22.4
6	☐			170.00		P	3.9
7	☐			355.56		P	6.4
8	☐			186.67		P	9.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	17.2
2	☐			74.44		P	20.7
3	☐			94.45		P	30.8
4	☐			82.22		P	10.2
5	☐			86.67		P	17.6
6	☐			114.45		P	25.4
7	☐			210.00		P	11.1
8	☐			128.89		P	12.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	22.2
2	☐			45.56		P	21.1
3	☐			64.44		P	23.3
4	☐			66.67		P	35.0
5	☐			64.44		P	41.8
6	☐			116.67		P	20.6
7	☐			210.00		P	19.9
8	☐			231.12		P	23.2

164 Er [He] No available calibration points

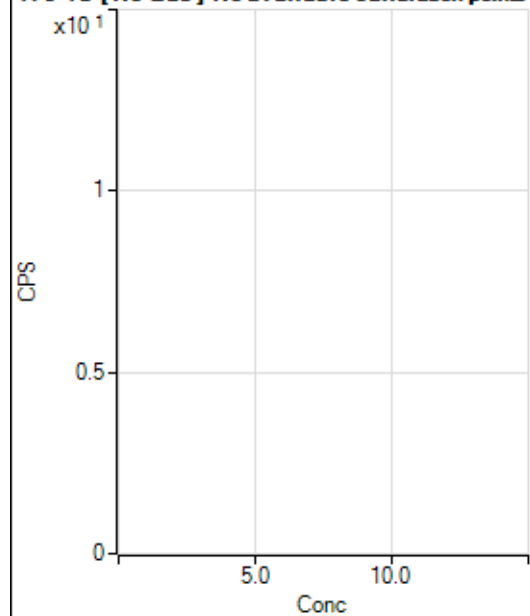
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.66		P	91.7
2	☐			17.78		P	39.0
3	☐			17.78		P	60.3
4	☐			14.44		P	13.4
5	☐			26.67		P	66.2
6	☐			41.11		P	20.4
7	☐			64.44		P	36.7
8	☐			74.44		P	2.6

172 Yb [No Gas] No available calibration points

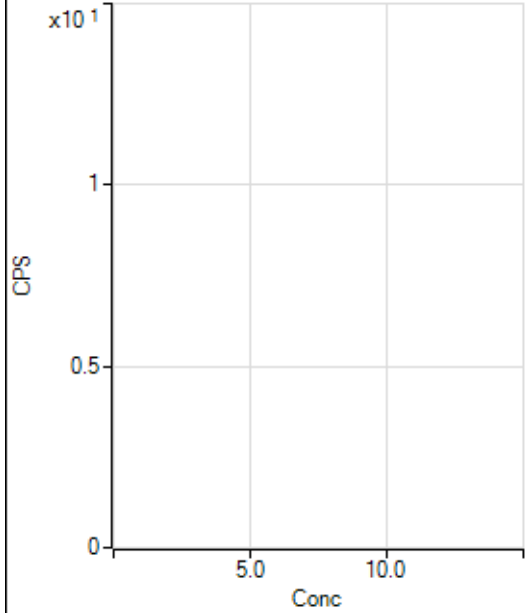
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	40.7
2	☐			45.55		P	29.6
3	☐			40.00		P	30.0
4	☐			55.55		P	43.4
5	☐			66.67		P	15.0
6	☐			90.00		P	23.1
7	☐			180.00		P	11.3
8	☐			212.23		P	4.0

172 Yb [He] No available calibration points

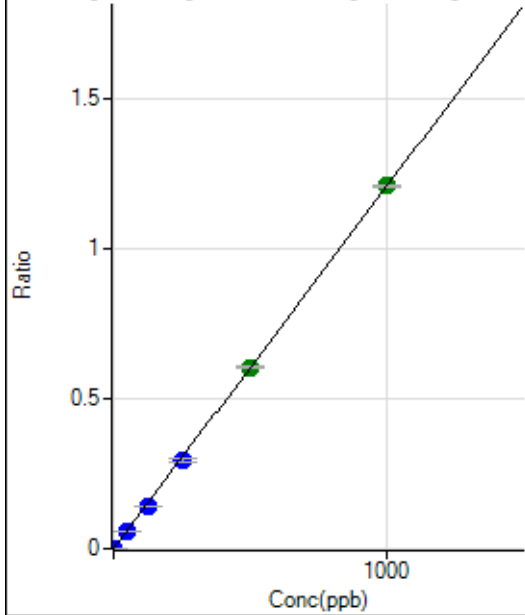
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	49.5
2	☐			16.67		P	40.0
3	☐			26.67		P	12.5
4	☐			23.34		P	24.7
5	☐			31.11		P	22.3
6	☐			32.22		P	36.3
7	☐			66.67		P	40.9
8	☐			80.00		P	22.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			882.26		P	3.8
2	☐			927.82		P	7.7
3	☐			1976.84		P	2.6
4	☐			3496.06		P	1.2
5	☐			6022.54		P	1.8
6	☐			11170.36		P	1.3
7	☐			21710.16		P	1.6
8	☐			911.15		P	5.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6632.83		P	1.6
2	☐			6251.55		P	3.8
3	☐			6862.95		P	3.5
4	☐			7358.78		P	4.7
5	☐			8198.17		P	3.1
6	☐			9952.73		P	2.5
7	☐			13458.07		P	3.3
8	☐			6869.62		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	422.24	0.0001	P	12.1
2	☐	1.000	0.872	4963.23	0.0012	P	1.3
3	☐	50.000	46.846	248101.62	0.0567	P	0.2
4	☐	125.000	117.530	617531.68	0.1422	P	0.9
5	☐	250.000	242.897	1195237.24	0.2938	P	5.4
6	☐	500.000	501.819	2543479.27	0.6070	A	1.6
7	☐	1000.000	1001.958	5001464.65	1.2118	A	0.2
8	☐			3739.62	0.0010	P	12.2

$$y = 0.0012 * x + 9.7108E-005$$

$$R = 1.0000$$

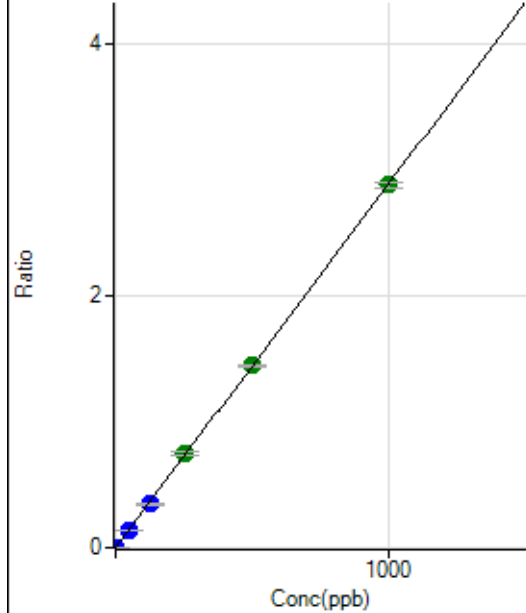
$$DL = 0.02904$$

$$BEC = 0.0803$$

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	1066.73	0.0002	P	2.7
2	☐	1.000	0.891	12153.61	0.0028	P	3.0
3	☐	50.000	47.395	600010.51	0.1372	P	1.1
4	☐	125.000	119.281	1497912.44	0.3450	P	1.5
5	☐	250.000	260.513	3065451.83	0.7532	A	4.2
6	☐	500.000	500.380	6061816.44	1.4466	A	0.3
7	☐	1000.000	998.027	11906780.52	2.8850	A	1.9
8	☐			9023.83	0.0024	P	11.0

$$y = 0.0029 * x + 2.4500E-004$$

$$R = 0.9999$$

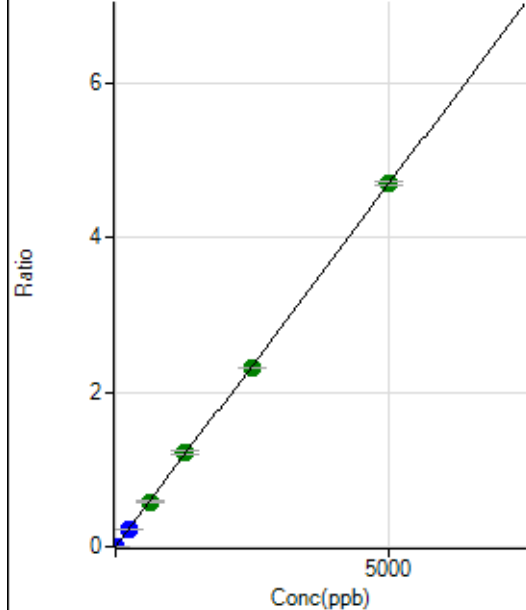
$$DL = 0.006881$$

$$BEC = 0.08476$$

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	642.25	0.0001	P	2.7
2	☐	1.000	0.913	4327.43	0.0010	P	1.6
3	☐	250.000	235.845	967522.00	0.2213	P	1.2
4	☐	625.000	620.881	2528430.48	0.5824	A	1.0
5	☐	1250.000	1298.318	4954771.90	1.2176	A	4.4
6	☐	2500.000	2466.095	9691032.08	2.3127	A	0.6
7	☐	5000.000	5006.096	19374942.77	4.6945	A	1.1
8	☐			14468.07	0.0039	P	8.1

$$y = 9.3772E-004 * x + 1.4754E-004$$

$$R = 0.9999$$

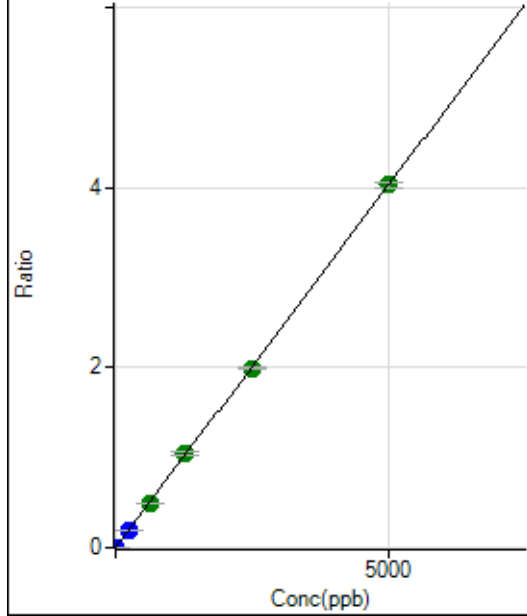
$$DL = 0.01282$$

$$BEC = 0.1573$$

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	551.13	0.0001	P	11.9
2	☐	1.000	0.959	3872.85	0.0009	P	2.8
3	☐	250.000	236.946	834095.82	0.1908	P	0.6
4	☐	625.000	619.752	2165693.40	0.4988	A	0.9
5	☐	1250.000	1299.094	4254082.54	1.0454	A	4.5
6	☐	2500.000	2471.464	8333956.13	1.9888	A	1.5
7	☐	5000.000	5003.303	16615801.42	4.0260	A	1.6
8	☐			12306.12	0.0033	P	11.1

$$y = 8.0464E-004 * x + 1.2650E-004$$

$$R = 0.9999$$

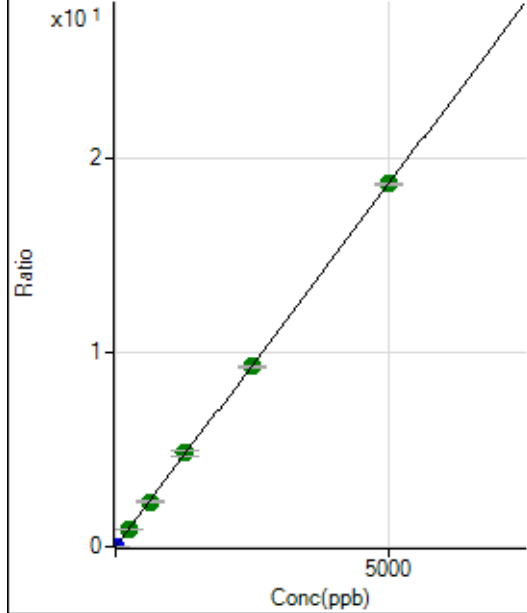
$$DL = 0.05619$$

$$BEC = 0.1572$$

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	2495.68	0.0006	P	1.5
2	☐	1.000	0.932	17451.45	0.0040	P	0.9
3	☐	250.000	244.558	3989346.07	0.9125	A	1.1
4	☐	625.000	620.983	10056166.41	2.3161	A	0.9
5	☐	1250.000	1288.829	19555142.00	4.8065	A	4.9
6	☐	2500.000	2480.668	38764585.67	9.2507	A	0.5
7	☐	5000.000	5000.733	76963714.14	18.6477	A	0.7
8	☐			57590.94	0.0154	P	7.3

$$y = 0.0037 * x + 5.7329E-004$$

$$R = 1.0000$$

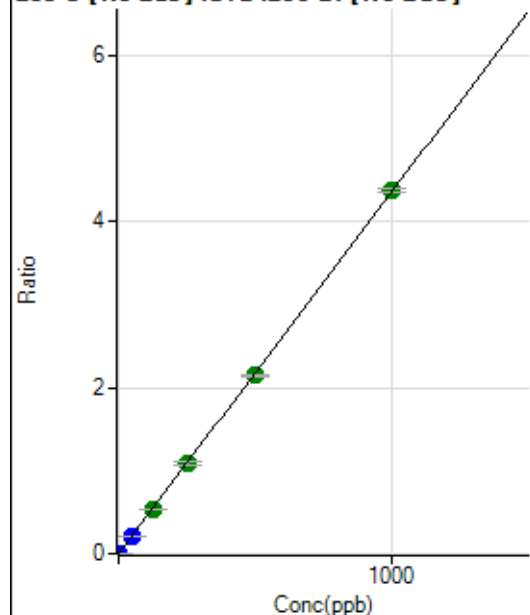
$$DL = 0.0067$$

$$BEC = 0.1537$$

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	62.22	0.0000	P	55.9
2	☐	1.000	0.865	16269.42	0.0038	P	2.4
3	☐	50.000	46.547	884995.06	0.2024	P	0.8
4	☐	125.000	121.741	2298731.60	0.5294	A	1.4
5	☐	250.000	250.679	4436020.73	1.0901	A	4.3
6	☐	500.000	493.735	8997040.42	2.1470	A	0.7
7	☐	1000.000	1003.543	18011809.31	4.3639	A	1.1
8	☐			10059.16	0.0027	P	13.0

$$y = 0.0043 * x + 1.4230E-005$$

$$R = 1.0000$$

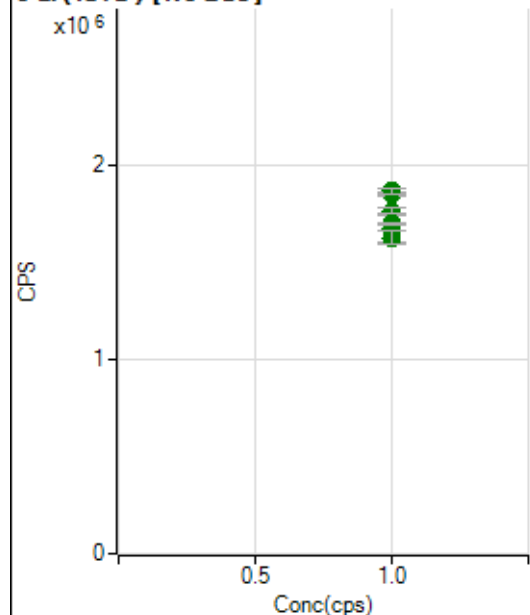
$$DL = 0.005489$$

$$BEC = 0.003272$$

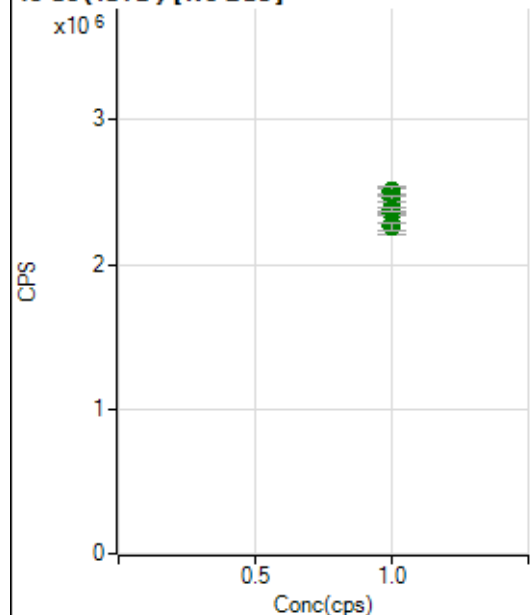
Weight: <None>

Min Conc: 0

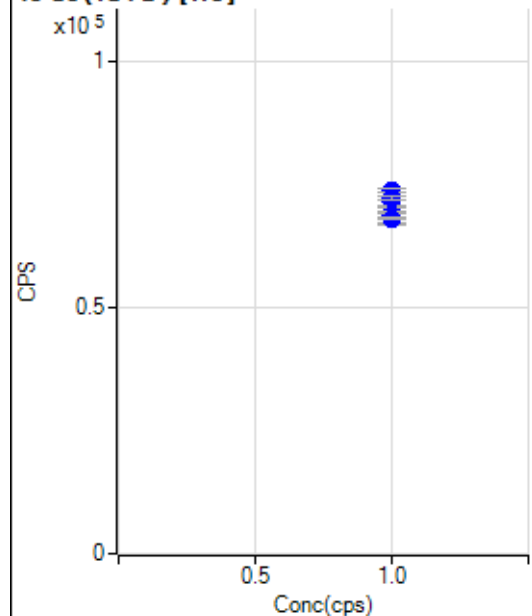
6 Li (ISTD) [No Gas]



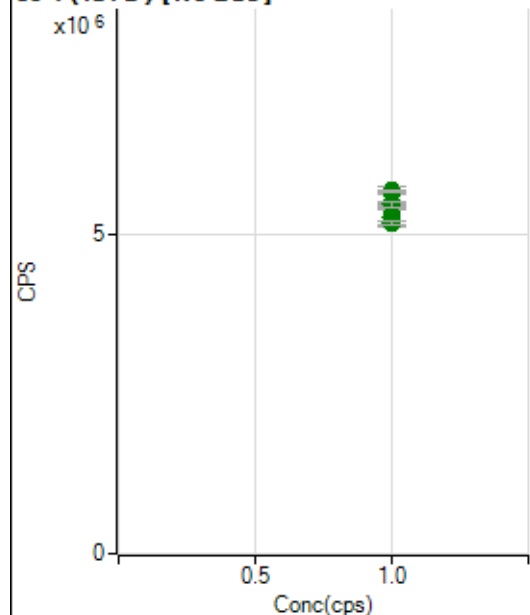
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1867856.19		A	0.9
2	☐	1.000		1850853.14		A	1.2
3	☐	1.000		1867737.94		A	1.6
4	☐	1.000		1765789.18		A	1.4
5	☐	1.000		1673543.53		A	7.8
6	☐	1.000		1706537.60		A	0.0
7	☐	1.000		1694970.37		A	0.7
8	☐	1.000		1626293.92		A	4.0

45 Sc (ISTD) [No Gas]

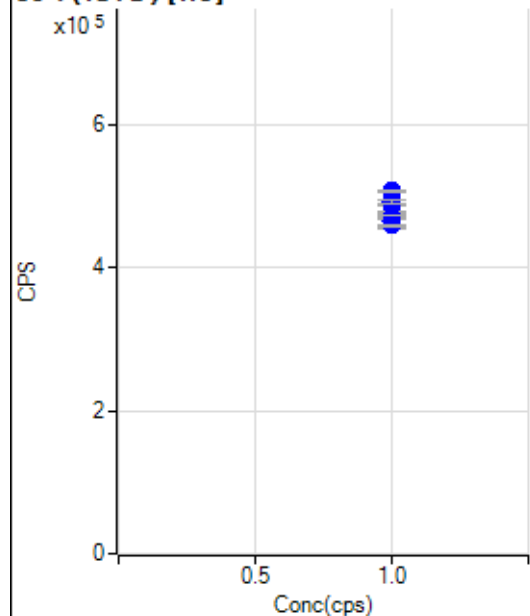
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2501467.32		A	2.0
2	☐	1.000		2509523.23		A	2.3
3	☐	1.000		2456102.44		A	1.6
4	☐	1.000		2399636.14		A	2.9
5	☐	1.000		2278722.43		A	6.5
6	☐	1.000		2356961.30		A	0.9
7	☐	1.000		2381320.82		A	0.8
8	☐	1.000		2263214.08		A	2.5

45 Sc (ISTD) [He]

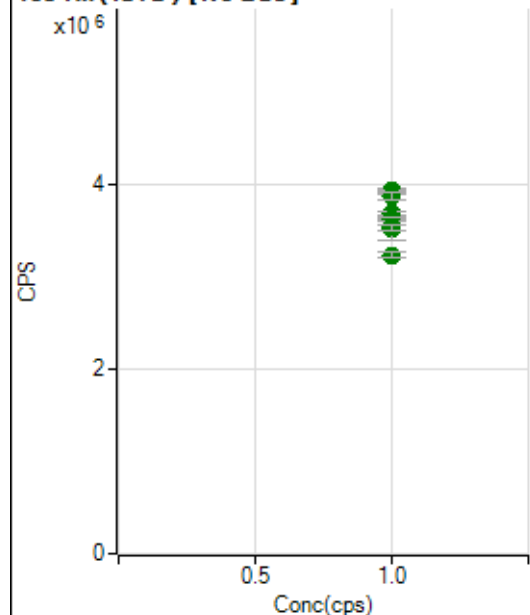
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		73733.52		P	0.9
2	☐	1.000		71518.29		P	3.3
3	☐	1.000		70718.44		P	0.6
4	☐	1.000		68822.69		P	1.1
5	☐	1.000		67808.05		P	2.1
6	☐	1.000		68186.97		P	3.5
7	☐	1.000		68196.46		P	0.5
8	☐	1.000		72356.53		P	0.8

89 Y (ISTD) [No Gas]

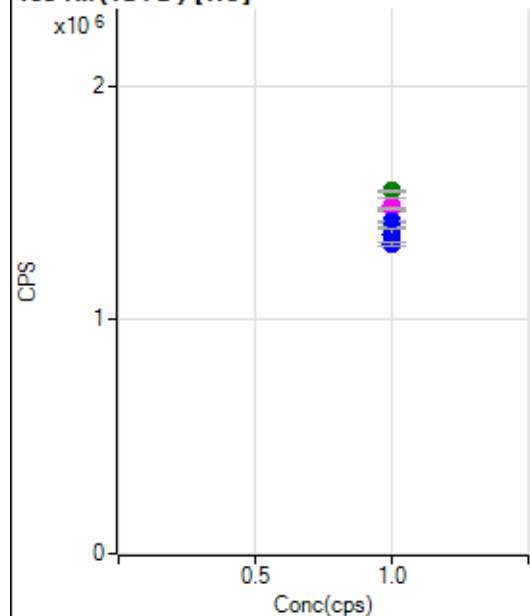
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5663716.38		A	0.7
2	☐	1.000		5687131.44		A	2.1
3	☐	1.000		5681725.82		A	0.8
4	☐	1.000		5456955.48		A	1.4
5	☐	1.000		5267759.96		A	5.7
6	☐	1.000		5426528.53		A	0.9
7	☐	1.000		5474120.61		A	1.4
8	☐	1.000		5178704.82		A	1.0

89 Y (ISTD) [He]

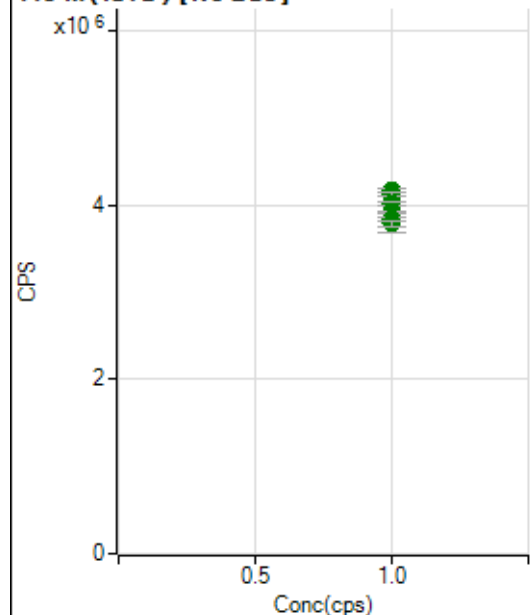
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		507087.27		P	0.3
2	☐	1.000		495115.00		P	3.9
3	☐	1.000		489614.09		P	0.1
4	☐	1.000		476636.52		P	0.6
5	☐	1.000		469624.58		P	0.6
6	☐	1.000		463684.45		P	4.1
7	☐	1.000		459210.76		P	0.6
8	☐	1.000		491238.85		P	1.1

103 Rh (ISTD) [No Gas]

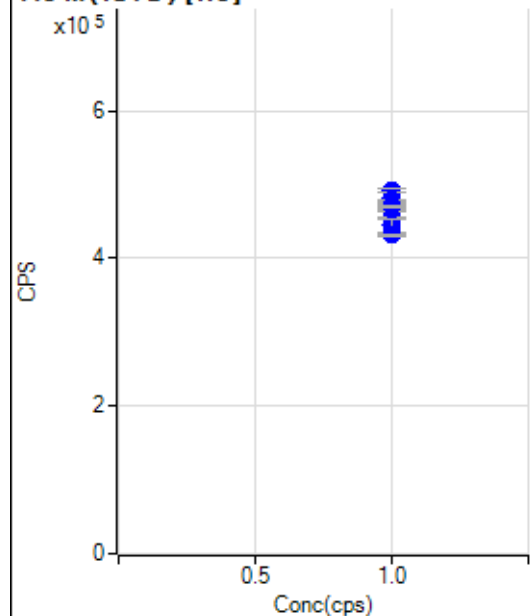
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3933987.23		A	1.1
2	☐	1.000		3937393.48		A	0.5
3	☐	1.000		3874967.96		A	2.2
4	☐	1.000		3696514.01		A	1.5
5	☐	1.000		3521605.33		A	6.5
6	☐	1.000		3630931.20		A	0.9
7	☐	1.000		3545014.91		A	1.8
8	☐	1.000		3240852.45		A	2.1

103 Rh (ISTD) [He]

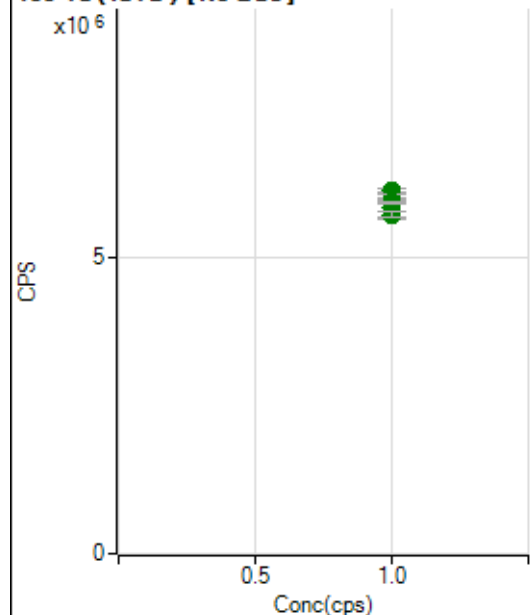
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1551427.41		A	0.7
2	☐	1.000		1492059.56		M	4.3
3	☐	1.000		1476085.10		M	0.5
4	☐	1.000		1419491.38		P	0.5
5	☐	1.000		1394377.57		P	0.7
6	☐	1.000		1361322.72		P	4.4
7	☐	1.000		1332464.55		P	0.3
8	☐	1.000		1324939.81		P	0.9

115 In (ISTD) [No Gas]

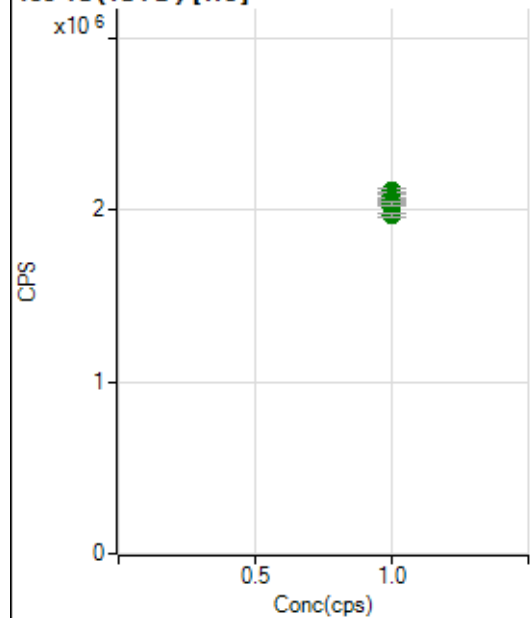
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4164782.26		A	1.2
2	☐	1.000		4119034.16		A	1.1
3	☐	1.000		4127482.65		A	0.9
4	☐	1.000		4014238.82		A	0.9
5	☐	1.000		3800052.61		A	5.4
6	☐	1.000		3919242.03		A	0.3
7	☐	1.000		3842675.47		A	1.1
8	☐	1.000		3792592.98		A	1.7

115 In (ISTD) [He]

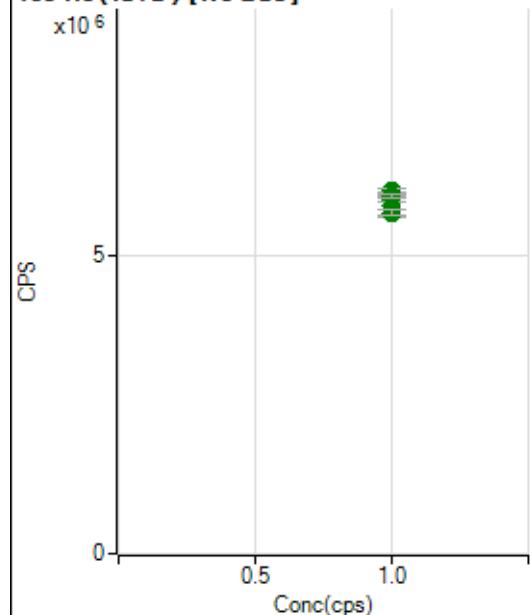
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		491576.70		P	1.2
2	☐	1.000		481758.40		P	3.3
3	☐	1.000		478392.83		P	0.2
4	☐	1.000		464555.95		P	0.6
5	☐	1.000		455131.02		P	0.7
6	☐	1.000		444806.34		P	4.3
7	☐	1.000		431840.79		P	0.5
8	☐	1.000		470530.84		P	0.9

159 Tb (ISTD) [No Gas]

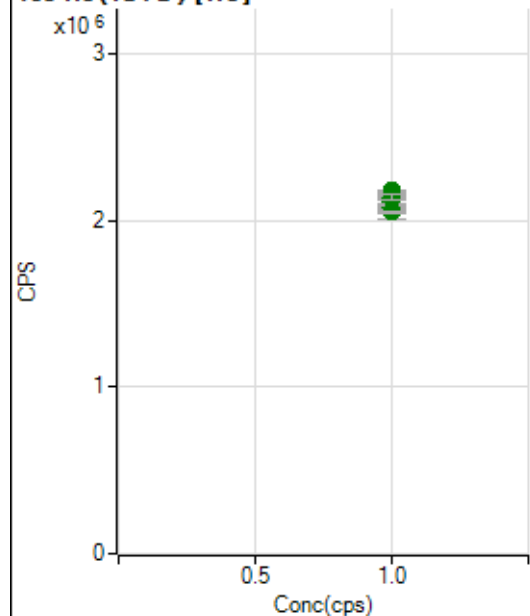
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6111318.24		A	1.6
2	☐	1.000		6126754.84		A	1.7
3	☐	1.000		6095131.92		A	0.4
4	☐	1.000		6083007.41		A	0.2
5	☐	1.000		5834834.36		A	6.3
6	☐	1.000		5955802.20		A	0.5
7	☐	1.000		5936273.52		A	0.7
8	☐	1.000		5730252.42		A	1.3

159 Tb (ISTD) [He]

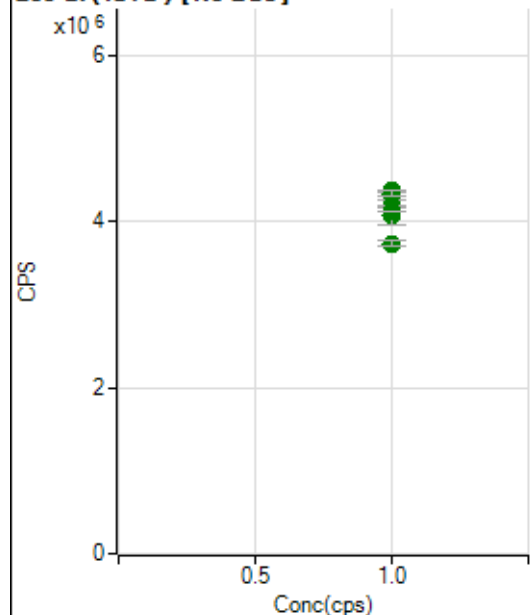
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2110840.92		A	1.4
2	☐	1.000		2063724.64		A	4.0
3	☐	1.000		2078779.15		A	2.4
4	☐	1.000		2054307.97		A	1.8
5	☐	1.000		2038175.91		A	0.4
6	☐	1.000		2013330.42		A	3.4
7	☐	1.000		1971799.43		A	1.0
8	☐	1.000		2040116.91		A	1.2

165 Ho (ISTD) [No Gas]

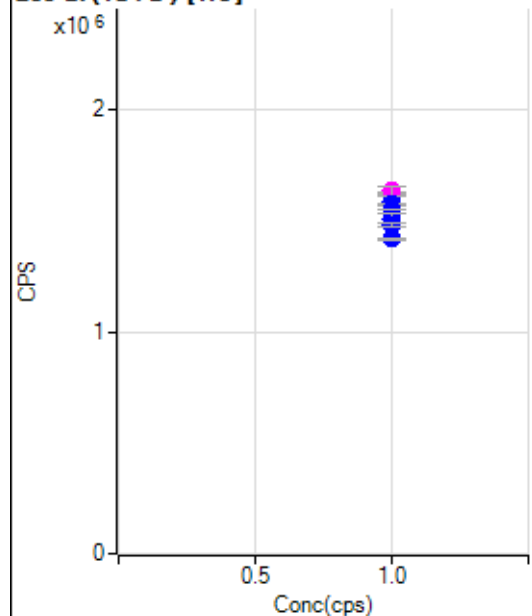
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6043586.86		A	0.9
2	☐	1.000		6016001.02		A	0.4
3	☐	1.000		6032450.88		A	0.8
4	☐	1.000		6084010.74		A	1.2
5	☐	1.000		5830154.50		A	7.0
6	☐	1.000		5941722.41		A	1.2
7	☐	1.000		6000401.99		A	0.8
8	☐	1.000		5723741.44		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2179996.32		A	0.5
2	☐	1.000		2129037.82		A	4.2
3	☐	1.000		2155785.63		A	0.7
4	☐	1.000		2116518.72		A	2.3
5	☐	1.000		2078687.35		A	1.0
6	☐	1.000		2057785.33		A	4.5
7	☐	1.000		2055695.63		A	0.6
8	☐	1.000		2140206.57		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4353333.93		A	1.6
2	☐	1.000		4311339.14		A	1.9
3	☐	1.000		4371960.00		A	0.2
4	☐	1.000		4342030.70		A	1.2
5	☐	1.000		4076315.18		A	5.9
6	☐	1.000		4190462.16		A	0.4
7	☐	1.000		4127326.64		A	0.4
8	☐	1.000		3737164.04		A	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1625161.05		P	0.7
2	☐	1.000		1583685.88		P	3.8
3	☐	1.000		1635207.34		M	2.9
4	☐	1.000		1576417.34		P	0.4
5	☐	1.000		1551012.91		P	0.5
6	☐	1.000		1506331.82		P	4.2
7	☐	1.000		1480486.40		P	0.9
8	☐	1.000		1418265.93		P	0.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8040324-MS.b

Acq. Date-Time 2024-04-03 09:30:31

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6728	67275.06			0.639	5.000
24		41371	413706.75			0.822	5.000
25		5541	55406.50			0.977	5.000
26		6432	64316.22			1.354	5.000
59		40900	408998.18			1.019	5.000
113		5517	55174.64			0.942	5.000
115		68026	680255.50			0.814	5.000
206		20825	208245.49			0.960	5.000
207		18827	188265.14			0.912	5.000
208		45307	453066.84			0.826	5.000
220		0	1.10			81.312	

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

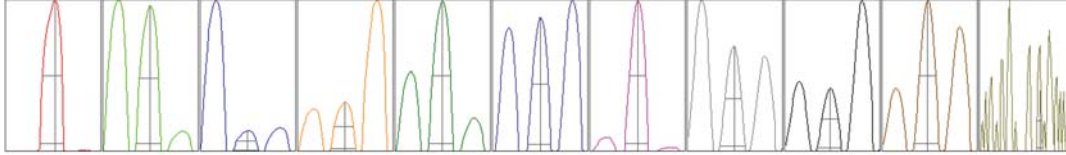
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6790	6702	6750	6714	6682
24	41844	40889	41425	41380	41315
25	5605	5461	5574	5529	5534
26	6528	6301	6413	6492	6424
59	41583	40673	40909	40483	40850
113	5605	5470	5495	5518	5499
115	68996	67743	67905	67620	67864
206	20759	20687	20849	20668	21159
207	18738	18794	18811	18672	19118
208	44900	45381	45392	45012	45849

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	11762.62	9.10	8.90 - 9.10	
24	73353.25	24.00	23.90 - 24.10	
25	9717.45	25.00	24.90 - 25.10	
26	11248.08	26.00	25.90 - 26.10	
59	76177.11	59.00	58.90 - 59.10	
113	11128.95	113.05	112.90 - 113.10	
115	137415.81	115.05	114.90 - 115.10	
206	41006.28	206.00	205.90 - 206.10	
207	37293.86	206.95	206.90 - 207.10	
208	89252.39	207.95	207.90 - 208.10	
220	0.20	220.45	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.740	0.900	
24	0.59	0.783	0.900	
25	0.60	0.777	0.900	
26	0.60	0.785	0.900	
59	0.56	0.775	0.900	
113	0.52	0.720	0.900	
115	0.51	0.726	0.900	
206	0.51	0.807	0.900	
207	0.52	0.770	0.900	
208	0.51	0.778	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 0.85 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	-6.0 V	Omega Lens	9.3 V	Deflect	14.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	1.6 mm	Torch V	-1.1 mm
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EM

Discriminator	4.7 mV	Analog HV	2310 V	Pulse HV	1711 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8373	83730.68			3.205	
89		4852	48517.25			2.917	
205		12579	125793.81			3.216	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8521	8473	8535	7898	8438
89	4937	4940	4922	4607	4852
205	12919	12841	12654	11897	12586

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	9.3 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	1.6 mm	Torch V	-1.1 mm
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EM

Discriminator	4.7 mV	Analog HV	2310 V	Pulse HV	1711 V
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