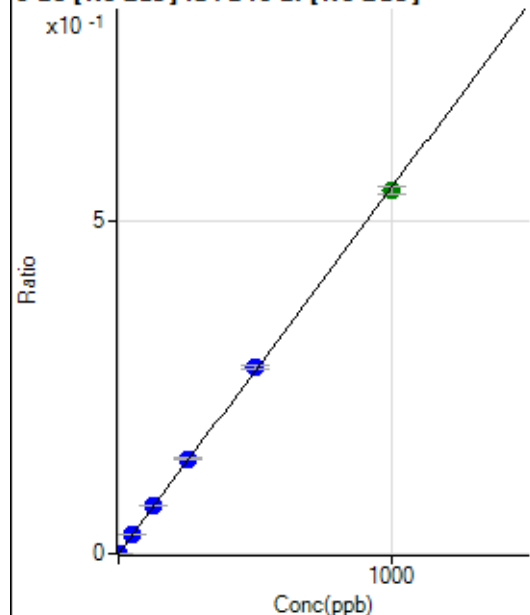


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120523-MS1.b\
 Analysis File: P8120523-MS1.batch.bin
 DA Date-Time: 2023-12-06 13:46:57
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-12-05 13:18:10
2	006CALS.d	S02	2023-12-05 13:25:00
3	007CALS.d	S03	2023-12-05 13:28:24
4	008CALS.d	S04	2023-12-05 13:31:41
5	009CALS.d	S05	2023-12-05 13:34:48
6	010CALS.d	S06	2023-12-05 13:37:52
7	011CALS.d	S07	2023-12-05 13:40:53
8	012CALS.d	S08	2023-12-05 13:43:57

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.66	0.0000	P	14.1
2	☐	1.000	0.938	1771.56	0.0005	P	1.8
3	☐	50.000	52.676	93857.32	0.0290	P	1.3
4	☐	125.000	130.646	224789.14	0.0720	P	2.8
5	☐	250.000	259.113	428840.98	0.1428	P	1.3
6	☐	500.000	510.664	813652.80	0.2814	P	2.3
7	☐	1000.000	991.550	1549736.04	0.5464	A	2.3
8	☐			472.65	0.0002	P	95.1

$$y = 5.5101\text{E-}004 * x + 1.3854\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01063$$

$$BEC = 0.02514$$

Weight: <None>

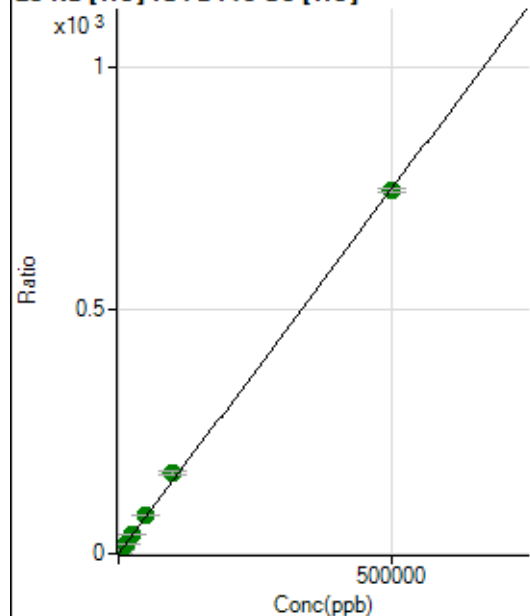
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2323350.38		A	1.0
2	☐			2319391.34		A	2.3
3	☐			2442586.16		A	1.9
4	☐			2448166.75		A	0.3
5	☐			2350691.81		A	1.6
6	☐			2372284.69		A	1.2
7	☐			2503163.47		A	3.1
8	☐			2198674.41		A	3.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29419.50		P	1.1
2	☐			29734.59		P	0.5
3	☐			30585.15		P	1.1
4	☐			31589.50		P	1.3
5	☐			30970.39		P	1.4
6	☐			31488.20		P	1.0
7	☐			33910.23		P	1.8
8	☐			35030.60		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15760.79	0.0884	P	1.3
2	☐	500.000	472.570	148838.90	0.7963	P	0.9
3	☐	5000.000	5375.897	1461840.22	8.1419	A	1.1
4	☐	12500.000	13144.538	3436909.57	19.7800	A	3.8
5	☐	25000.000	26319.739	6458565.39	39.5176	A	1.6
6	☐	50000.000	52148.772	12372544.26	78.2118	A	1.1
7	☐	100000.00	110753.48	24709332.13	166.0067	A	4.3
8	☐	500000.00	497548.59	129221650.3	745.4595	A	1.2

$$y = 0.0015 * x + 0.0884$$

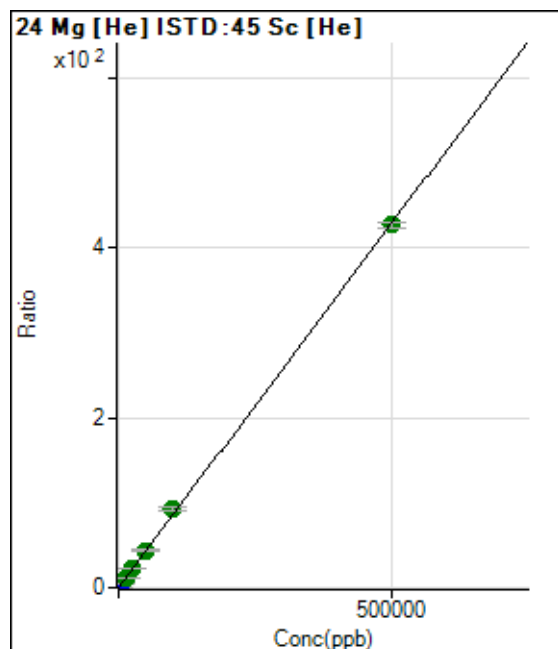
$$R = 0.9997$$

$$DL = 2.352$$

$$BEC = 59$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	135.56	0.0008	P	33.5
2	☐	500.000	475.179	76203.51	0.4077	P	1.2
3	☐	5000.000	5247.459	807061.02	4.4948	P	0.6
4	☐	12500.000	12938.266	1925784.54	11.0815	A	2.9
5	☐	25000.000	25857.470	3619565.36	22.1458	A	1.3
6	☐	50000.000	51328.203	6953944.48	43.9597	A	1.5
7	☐	100000.00	108791.55	13871626.74	93.1729	A	3.6
8	☐	500000.00	498052.58	73939878.34	426.5470	A	1.3

$$y = 8.5643\text{E-}004 * x + 7.6016\text{E-}004$$

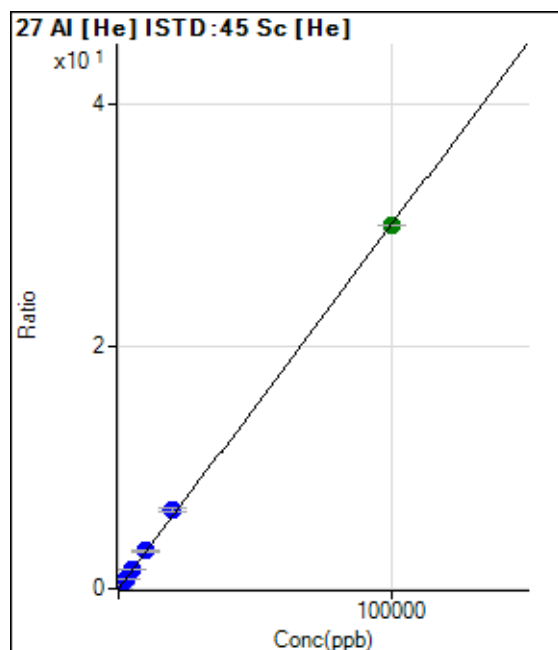
$$R = 0.9998$$

$$DL = 0.8911$$

$$BEC = 0.8876$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.44	0.0006	P	9.3
2	☐	20.000	19.052	1178.95	0.0063	P	1.1
3	☐	1000.000	1051.475	56802.61	0.3164	P	0.8
4	☐	2500.000	2540.399	132704.56	0.7635	P	2.4
5	☐	5000.000	5164.920	253621.54	1.5517	P	0.6
6	☐	10000.000	10328.998	490790.94	3.1025	P	1.3
7	☐	20000.000	21569.602	964076.38	6.4782	P	4.8
8	☐	100000.00	99643.409	5187556.31	29.9249	A	0.1

$$y = 3.0031\text{E-}004 * x + 5.8567\text{E-}004$$

$$R = 0.9999$$

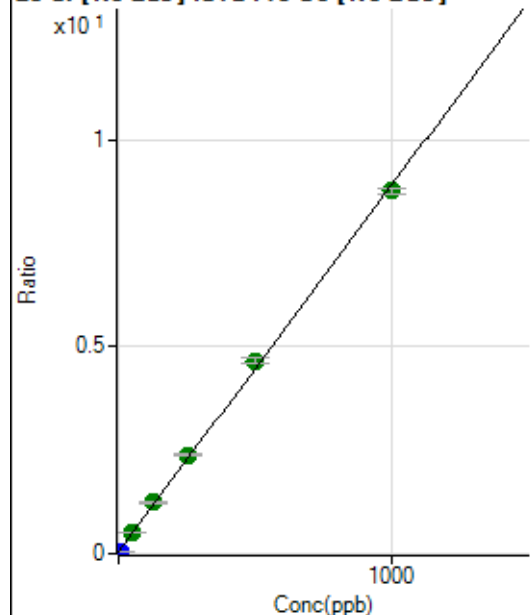
$$DL = 0.5436$$

$$BEC = 1.95$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	215425.66	0.0492	P	11.1
2	☐	10.000	0.083	239583.35	0.0500	P	1.2
3	☐	50.000	54.032	2517607.71	0.5269	A	1.8
4	☐	125.000	133.704	5686758.04	1.2312	A	1.1
5	☐	250.000	264.023	10509108.94	2.3831	A	1.3
6	☐	500.000	520.625	19785977.90	4.6515	A	3.1
7	☐	1000.000	984.991	37211661.95	8.7564	A	1.5
8	☐			296656.81	0.0718	P	3.7

$$y = 0.0088 * x + 0.0492$$

$$R = 0.9994$$

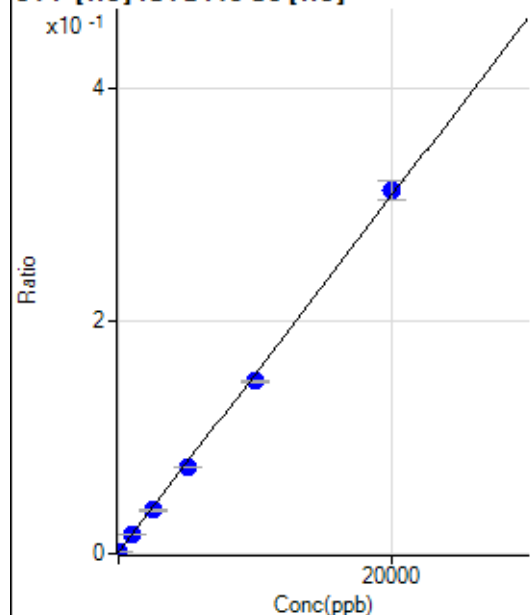
$$DL = 1.862$$

$$BEC = 5.57$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-13.812	201.12	0.0011	P	4.9
2	☐	0.000	13.812	290.01	0.0016	P	16.9
3	☐	1000.000	993.009	2972.56	0.0166	P	4.3
4	☐	2500.000	2344.946	6479.28	0.0373	P	2.1
5	☐	5000.000	4764.586	12150.75	0.0743	P	1.2
6	☐	10000.000	9608.264	23503.56	0.1486	P	1.1
7	☐	20000.000	20274.453	46425.15	0.3120	P	5.2
8	☐			227.78	0.0013	P	11.3

$$y = 1.5322E-005 * x + 0.0013$$

$$R = 0.9996$$

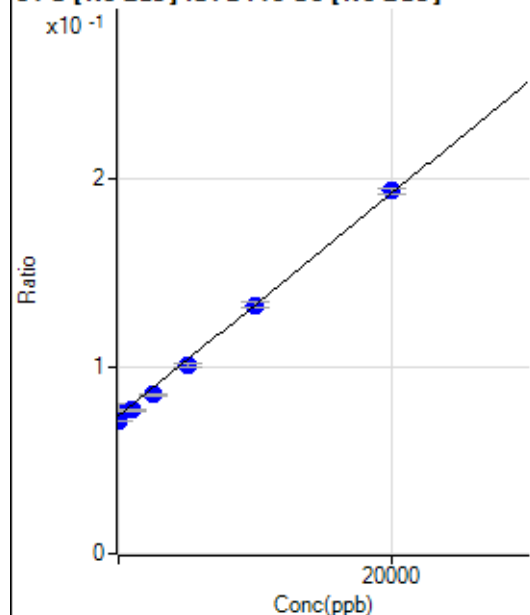
$$DL = 31.11$$

$$BEC = 87.44$$

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	483.027	334453.84	0.0764	P	10.4
2	☐	0.000	-483.027	338833.75	0.0707	P	0.9
3	☐	1000.000	542.820	366812.57	0.0768	P	1.6
4	☐	2500.000	1931.433	392630.31	0.0850	P	1.2
5	☐	5000.000	4612.474	445006.38	0.1009	P	2.2
6	☐	10000.000	9965.563	564580.15	0.1327	P	2.1
7	☐	20000.000	20208.030	822389.72	0.1935	P	1.5
8	☐			274799.90	0.0666	P	5.4

$$y = 5.9374\text{E-}006 * x + 0.0735$$

R = 0.9988

DL = 2171

BEC = 1.239E+04

Weight: <None>

Min Conc: 0

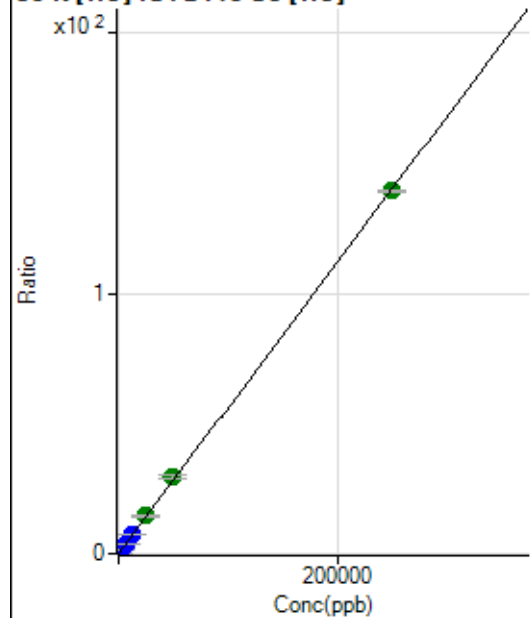
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			124389.18		P	29.8
2	☐			142433.44		P	24.1
3	☐			215413.03		P	21.8
4	☐			194332.90		P	20.4
5	☐			186108.06		P	21.5
6	☐			169431.67		P	22.4
7	☐			147436.07		P	32.0
8	☐			125039.78		P	23.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			847.81		P	6.8
2	☐			1032.27		P	4.7
3	☐			1386.75		P	9.2
4	☐			1330.08		P	3.5
5	☐			1232.29		P	8.3
6	☐			1143.39		P	6.4
7	☐			913.37		P	3.8
8	☐			896.70		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9296.40	0.0521	P	3.3
2	☐	500.000	458.706	57623.27	0.3083	P	2.2
3	☐	2500.000	2557.971	265852.72	1.4807	P	1.1
4	☐	6250.000	6286.237	619194.56	3.5629	P	2.8
5	☐	12500.000	12693.436	1167262.75	7.1412	P	1.0
6	☐	25000.000	25951.135	2300807.03	14.5454	A	2.1
7	☐	50000.000	52931.743	4404399.97	29.6135	A	6.5
8	☐	250000.00	249307.46	24144784.92	139.2858	A	0.8

$$y = 5.5848\text{E-}004 * x + 0.0521$$

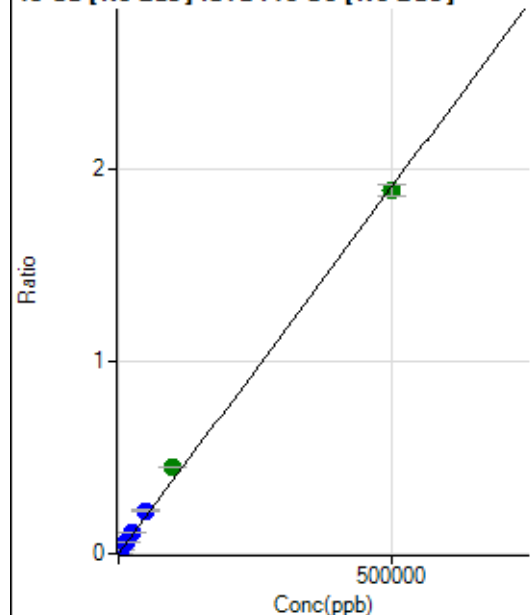
$$R = 0.9999$$

$$DL = 9.162$$

$$BEC = 93.36$$

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	226.67	0.0001	P	9.6
2	☐	500.000	471.376	8847.24	0.0018	P	1.3
3	☐	5000.000	5879.637	107138.86	0.0224	P	1.7
4	☐	12500.000	14808.120	260458.95	0.0564	P	1.5
5	☐	25000.000	29427.480	493915.10	0.1120	P	1.9
6	☐	50000.000	58474.282	946542.93	0.2225	P	3.0
7	☐	100000.00	119244.52	1928321.20	0.4537	A	0.2
8	☐	500000.00	495015.82	7777358.91	1.8833	A	3.0

$$y = 3.8045\text{E-}006 * x + 5.1733\text{E-}005$$

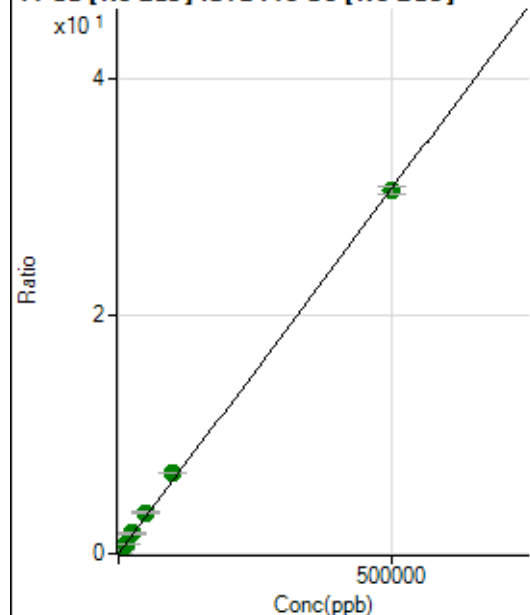
$$R = 0.9991$$

$$DL = 3.903$$

$$BEC = 13.6$$

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	36958.63	0.0084	P	9.3
2	☐	500.000	453.993	173929.43	0.0363	P	2.1
3	☐	5000.000	5687.259	1707093.65	0.3572	A	1.1
4	☐	12500.000	13908.586	3978838.76	0.8614	A	0.8
5	☐	25000.000	27547.399	7487011.07	1.6978	A	1.5
6	☐	50000.000	55978.230	14640513.12	3.4413	A	2.4
7	☐	100000.00	109798.70	28653132.63	6.7419	A	0.3
8	☐	500000.00	497273.02	125985149.2	30.5038	A	2.0

$$y = 6.1325\text{E-}005 * x + 0.0084$$

$$R = 0.9998$$

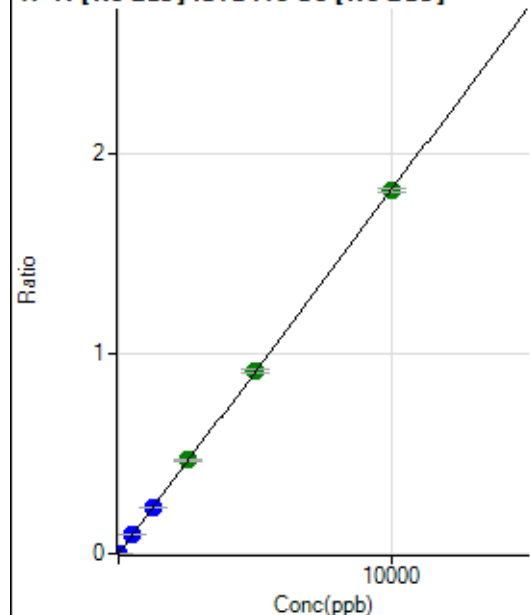
$$DL = 38.36$$

$$BEC = 137.6$$

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	100.00	0.0000	P	31.1
2	☐	5.000	4.820	4309.57	0.0009	P	7.1
3	☐	500.000	512.386	445099.33	0.0931	P	2.0
4	☐	1250.000	1283.049	1077247.58	0.2332	P	0.6
5	☐	2500.000	2566.043	2056574.12	0.4664	A	2.0
6	☐	5000.000	5020.198	3882599.32	0.9124	A	1.3
7	☐	10000.000	9968.640	7700159.05	1.8118	A	0.9
8	☐			1621.56	0.0004	P	46.1

$$y = 1.8175E-004 * x + 2.3158E-005$$

$$R = 1.0000$$

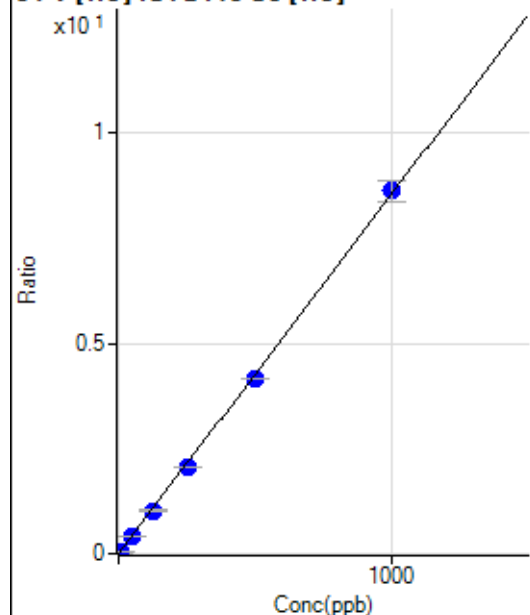
$$DL = 0.1189$$

$$BEC = 0.1274$$

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	20.00	0.0001	P	32.0
2	☐	5.000	4.391	7029.56	0.0376	P	0.2
3	☐	50.000	48.188	73897.21	0.4116	P	1.2
4	☐	125.000	119.514	177361.43	1.0206	P	3.3
5	☐	250.000	241.157	336589.02	2.0593	P	0.6
6	☐	500.000	486.887	657713.48	4.1576	P	0.9
7	☐	1000.000	1009.547	1282514.91	8.6206	P	5.7
8	☐			345.57	0.0020	P	8.6

$$y = 0.0085 * x + 1.1178E-004$$

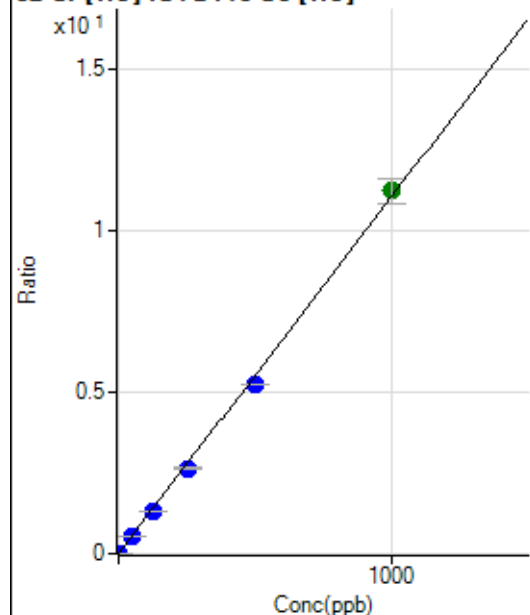
$$R = 0.9998$$

$$DL = 0.01255$$

$$BEC = 0.01309$$

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	1027.83	0.0058	P	1.0
2	☐	2.000	1.769	4727.49	0.0253	P	1.6
3	☐	50.000	48.293	96778.98	0.5390	P	0.5
4	☐	125.000	117.938	227311.82	1.3080	P	2.9
5	☐	250.000	239.295	432815.97	2.6480	P	0.6
6	☐	500.000	473.777	828473.54	5.2371	P	0.9
7	☐	1000.000	1016.756	1670821.29	11.2325	A	6.6
8	☐			5887.94	0.0340	P	1.7

$$y = 0.0110 * x + 0.0058$$

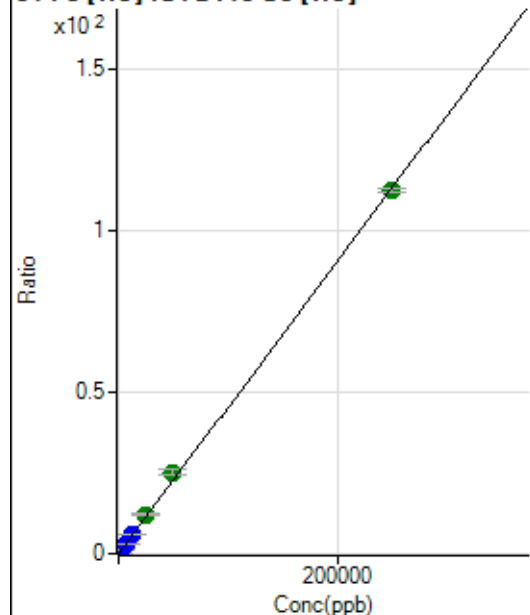
$$R = 0.9994$$

$$DL = 0.01516$$

$$BEC = 0.5219$$

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	363.34	0.0020	P	11.9
2	☐	50.000	50.587	4660.81	0.0249	P	2.5
3	☐	2500.000	2715.909	221051.04	1.2313	P	2.0
4	☐	6250.000	6629.809	521780.80	3.0028	P	3.4
5	☐	12500.000	13257.348	981067.44	6.0024	P	0.6
6	☐	25000.000	26925.289	1928122.59	12.1887	A	1.2
7	☐	50000.000	55974.978	3770082.41	25.3368	A	5.2
8	☐	250000.00	248562.95	19503584.43	112.5040	A	1.0

$$y = 4.5261E-004 * x + 0.0020$$

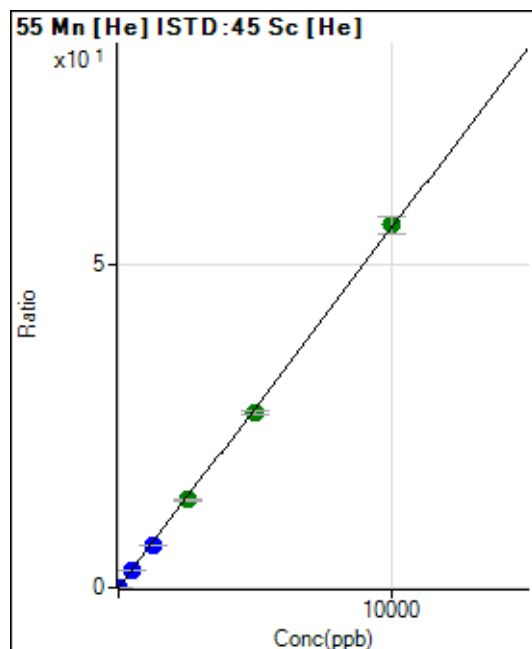
$$R = 0.9997$$

$$DL = 1.609$$

$$BEC = 4.501$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	87.78	0.0005	P	26.2
2	☐	1.000	0.855	982.26	0.0053	P	4.9
3	☐	500.000	482.959	482958.01	2.6898	P	0.8
4	☐	1250.000	1185.398	1147237.11	6.6012	P	2.8
5	☐	2500.000	2443.617	2223964.96	13.6074	A	1.6
6	☐	5000.000	4872.765	4292217.40	27.1338	A	1.5
7	☐	10000.000	10086.641	8357727.79	56.1666	A	5.1
8	☐			4432.95	0.0256	P	4.3

$$y = 0.0056 * x + 4.9256E-004$$

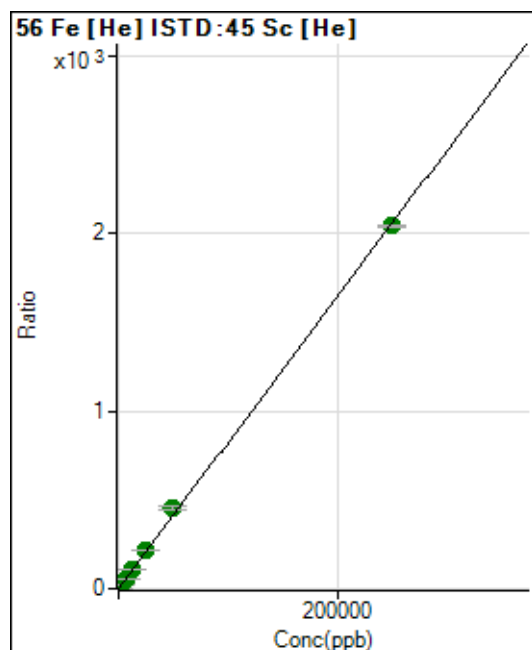
$$R = 0.9999$$

$$DL = 0.06942$$

$$BEC = 0.08846$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2640.27	0.0148	P	3.0
2	☐	50.000	47.868	76233.61	0.4079	P	1.4
3	☐	2500.000	2706.916	3993679.59	22.2423	A	0.7
4	☐	6250.000	6571.788	9381615.42	53.9782	A	2.8
5	☐	12500.000	13303.793	17857541.82	109.2572	A	0.7
6	☐	25000.000	26418.184	34317051.99	216.9444	A	1.9
7	☐	50000.000	55079.206	67308724.55	452.2908	A	4.8
8	☐	250000.00	248792.03	354154999.1	2,042.939	A	0.5

$$y = 0.0082 * x + 0.0148$$

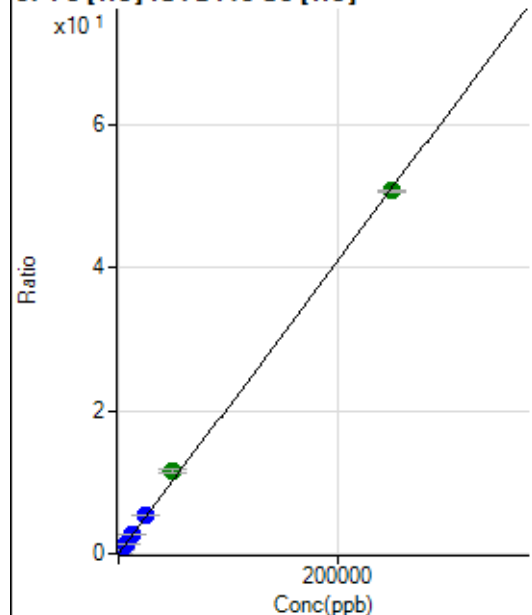
$$R = 0.9998$$

$$DL = 0.1599$$

$$BEC = 1.803$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0006	P	14.2
2	☐	50.000	48.688	1967.93	0.0105	P	5.6
3	☐	2500.000	2665.502	97775.81	0.5446	P	1.6
4	☐	6250.000	6551.024	232471.64	1.3376	P	2.5
5	☐	12500.000	13348.440	445362.05	2.7248	P	0.8
6	☐	25000.000	26485.364	855189.72	5.4059	P	0.6
7	☐	50000.000	56151.630	1705843.05	11.4604	A	4.5
8	☐	250000.00	248569.53	8794434.38	50.7303	A	0.9

$$y = 2.0409\text{E-}004 * x + 5.9251\text{E-}004$$

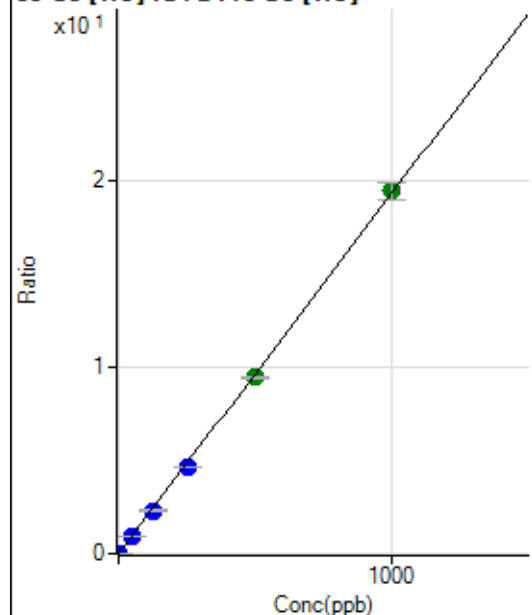
$$R = 0.9997$$

$$DL = 1.234$$

$$BEC = 2.903$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.23	0.0007	P	21.5
2	☐	1.000	0.915	3426.00	0.0183	P	2.8
3	☐	50.000	48.410	167739.27	0.9342	P	1.5
4	☐	125.000	118.985	398896.45	2.2953	P	2.8
5	☐	250.000	240.453	758035.28	4.6377	P	1.0
6	☐	500.000	490.141	1495369.27	9.4528	A	1.5
7	☐	1000.000	1008.148	2893279.54	19.4423	A	4.9
8	☐			8035.66	0.0464	P	2.9

$$y = 0.0193 * x + 6.8426\text{E-}004$$

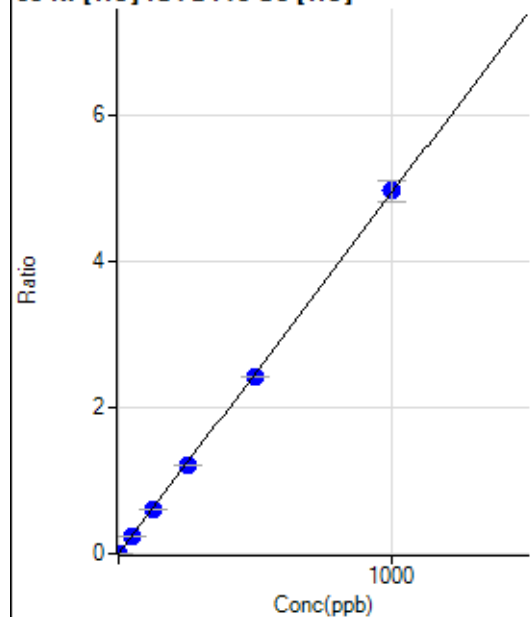
$$R = 0.9999$$

$$DL = 0.02284$$

$$BEC = 0.03548$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	85.83	0.0005	P	13.8
2	☐	1.000	0.901	919.36	0.0049	P	6.0
3	☐	50.000	50.351	44614.02	0.2485	P	0.7
4	☐	125.000	122.831	105235.13	0.6055	P	2.2
5	☐	250.000	245.310	197551.39	1.2087	P	0.9
6	☐	500.000	490.097	381933.60	2.4143	P	0.7
7	☐	1000.000	1006.378	737428.70	4.9571	P	5.9
8	☐			2509.73	0.0145	P	2.4

$$y = 0.0049 * x + 4.8114E-004$$

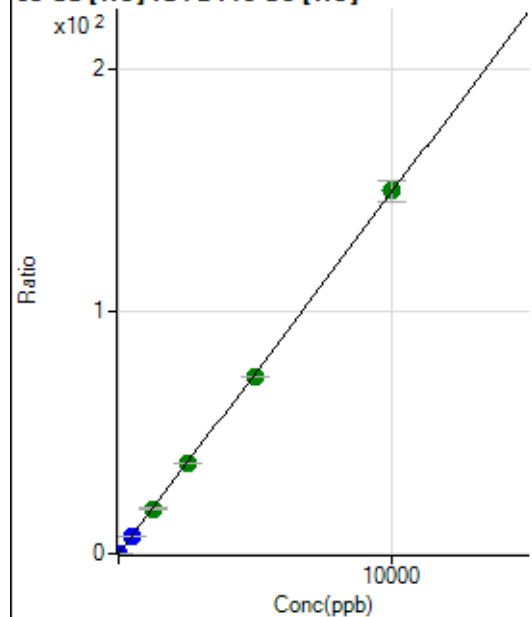
$$R = 0.9999$$

$$DL = 0.04051$$

$$BEC = 0.09769$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	644.46	0.0036	P	4.1
2	☐	2.000	1.790	5652.29	0.0302	P	0.5
3	☐	500.000	496.386	1326623.11	7.3886	P	1.0
4	☐	1250.000	1241.170	3210015.26	18.4691	A	2.4
5	☐	2500.000	2515.578	6117909.91	37.4290	A	0.4
6	☐	5000.000	4902.144	11538966.64	72.9351	A	0.8
7	☐	10000.000	10046.318	22237106.06	149.4673	A	5.7
8	☐			5527.83	0.0319	P	3.0

$$y = 0.0149 * x + 0.0036$$

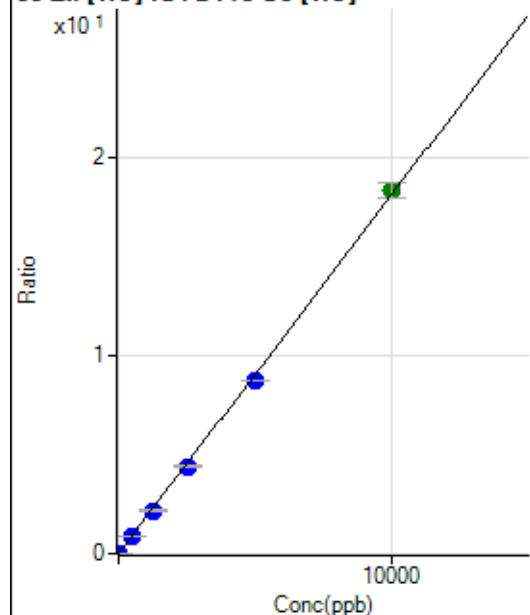
$$R = 0.9999$$

$$DL = 0.02994$$

$$BEC = 0.2429$$

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	642.24	0.0036	P	2.0
2	☐	5.000	4.043	2042.39	0.0109	P	1.6
3	☐	500.000	493.191	161132.69	0.8974	P	1.0
4	☐	1250.000	1203.664	379742.98	2.1850	P	2.7
5	☐	2500.000	2430.285	720482.34	4.4081	P	0.6
6	☐	5000.000	4821.902	1383034.13	8.7425	P	0.7
7	☐	10000.000	10112.611	2728682.88	18.3311	A	4.1
8	☐			3023.69	0.0174	P	2.1

$$y = 0.0018 * x + 0.0036$$

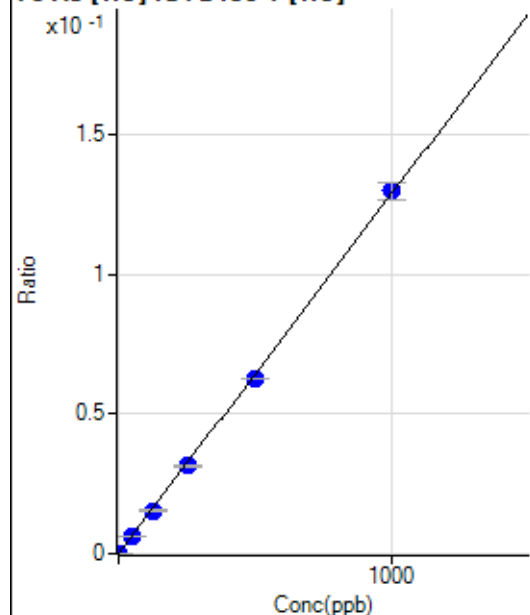
$$R = 0.9997$$

$$DL = 0.1209$$

$$BEC = 1.987$$

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	0.832	144.44	0.0001	P	24.7
3	☐	50.000	50.283	8311.42	0.0065	P	0.9
4	☐	125.000	119.455	19354.53	0.0154	P	1.7
5	☐	250.000	243.816	36986.30	0.0314	P	1.1
6	☐	500.000	487.328	71628.57	0.0628	P	0.7
7	☐	1000.000	1008.561	139755.52	0.1299	P	4.7
8	☐			55.55	0.0000	P	40.3

$$y = 1.2880E-004 * x + 8.8361E-007$$

$$R = 0.9998$$

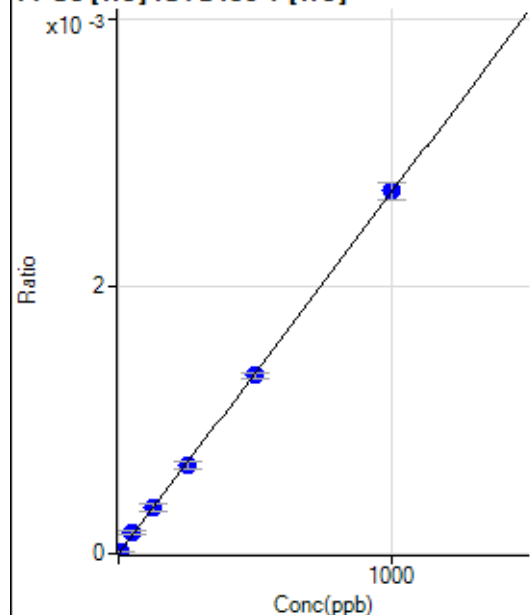
$$DL = 0.03565$$

$$BEC = 0.00686$$

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	5.540	20.00	0.0000	P	44.1
3	☐	50.000	60.220	208.89	0.0002	P	16.9
4	☐	125.000	127.679	433.35	0.0003	P	14.9
5	☐	250.000	244.395	777.81	0.0007	P	7.5
6	☐	500.000	493.254	1521.21	0.0013	P	3.7
7	☐	1000.000	1003.926	2919.22	0.0027	P	4.9
8	☐			16.67	0.0000	P	20.2

$$y = 2.7026\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

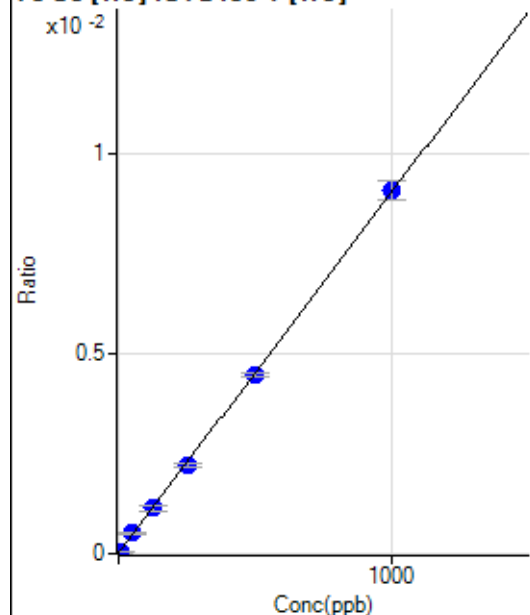
$$DL = 0$$

$$BEC = 0$$

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	22.22	0.0000	P	45.7
2	☐	5.000	4.140	73.33	0.0001	P	13.8
3	☐	50.000	54.818	657.80	0.0005	P	9.6
4	☐	125.000	124.018	1428.98	0.0011	P	10.4
5	☐	250.000	243.127	2608.04	0.0022	P	5.4
6	☐	500.000	494.405	5116.53	0.0045	P	2.3
7	☐	1000.000	1004.402	9780.16	0.0091	P	5.4
8	☐			77.78	0.0001	P	23.7

$$y = 9.0344\text{E-}006 * x + 1.7506\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.659$$

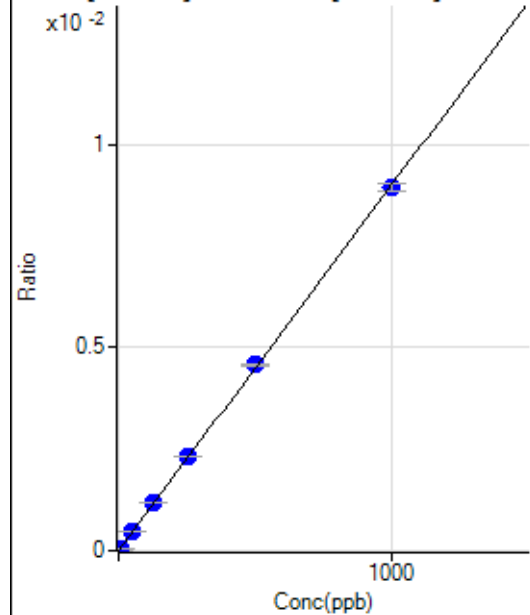
$$BEC = 1.938$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2303.55		P	2.5
2	☐			2331.33		P	1.9
3	☐			2124.63		P	2.1
4	☐			2179.08		P	5.6
5	☐			1900.15		P	3.9
6	☐			1943.49		P	2.6
7	☐			2023.50		P	6.7
8	☐			3235.96		P	10.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.00	0.0000	P	354.
2	☐	5.000	4.451	445.57	0.0000	P	20.3
3	☐	50.000	52.626	5153.28	0.0005	P	3.0
4	☐	125.000	131.313	12413.54	0.0012	P	1.0
5	☐	250.000	258.486	23921.91	0.0023	P	1.0
6	☐	500.000	508.686	45324.81	0.0046	P	1.7
7	☐	1000.000	992.618	87513.51	0.0089	P	2.2
8	☐			511.13	0.0001	P	15.6

$$y = 8.9908\text{E-}006 * x + 8.4332\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.9982$$

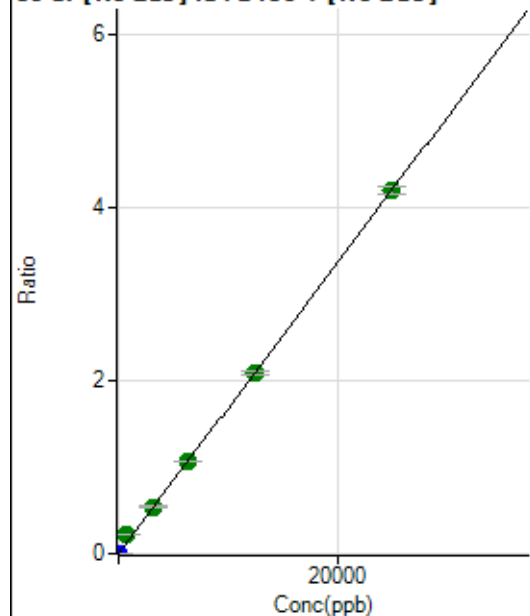
$$BEC = 0.0938$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			167.78		P	14.4
2	☐			203.34		P	3.3
3	☐			177.78		P	2.9
4	☐			167.78		P	10.9
5	☐			166.67		P	10.6
6	☐			174.45		P	9.4
7	☐			178.89		P	8.6
8	☐			178.89		P	7.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	381.12	0.0000	P	2.9
2	☐	1.000	0.912	2090.17	0.0002	P	3.2
3	☐	625.000	1270.421	2319709.34	0.2134	A	0.6
4	☐	3125.000	3199.618	5642806.58	0.5374	A	3.5
5	☐	6250.000	6323.284	10927849.98	1.0619	A	0.6
6	☐	12500.000	12442.004	20704226.64	2.0894	A	1.2
7	☐	25000.000	24985.214	41140681.61	4.1958	A	2.1
8	☐			5568.10	0.0006	P	32.6

$$y = 1.6793E-004 * x + 3.8431E-005$$

$$R = 0.9997$$

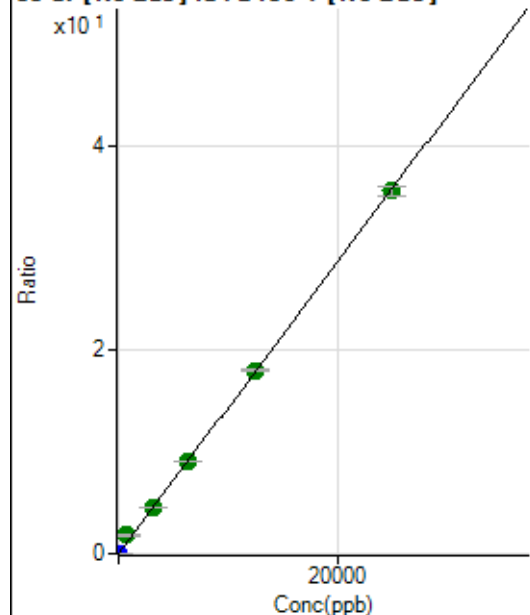
$$DL = 0.01957$$

$$BEC = 0.2288$$

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	1057.83	0.0001	P	7.6
2	☐	1.000	0.890	15011.49	0.0014	P	1.3
3	☐	625.000	1255.318	19475173.74	1.7914	A	0.6
4	☐	3125.000	3211.938	48147499.28	4.5834	A	1.0
5	☐	6250.000	6370.394	93538007.50	9.0903	A	0.9
6	☐	12500.000	12557.588	177562964.0	17.9191	A	1.2
7	☐	25000.000	24914.482	348568532.5	35.5517	A	2.7
8	☐			42840.63	0.0044	P	32.2

$$y = 0.0014 * x + 1.0713E-004$$

$$R = 0.9997$$

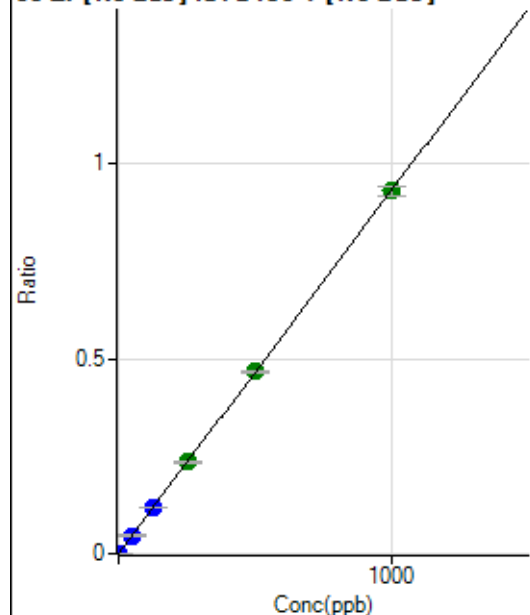
$$DL = 0.01709$$

$$BEC = 0.07508$$

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	412.24	0.0000	P	10.9
2	☐	1.000	0.904	9621.18	0.0009	P	2.7
3	☐	50.000	49.721	503350.03	0.0463	P	2.2
4	☐	125.000	125.643	1228407.69	0.1170	P	1.9
5	☐	250.000	252.218	2415452.10	0.2347	A	0.6
6	☐	500.000	500.803	4618097.05	0.4661	A	1.4
7	☐	1000.000	998.978	9114374.03	0.9296	A	2.9
8	☐			3986.24	0.0004	P	6.8

$$y = 9.3053E-004 * x + 4.1486E-005$$

$$R = 1.0000$$

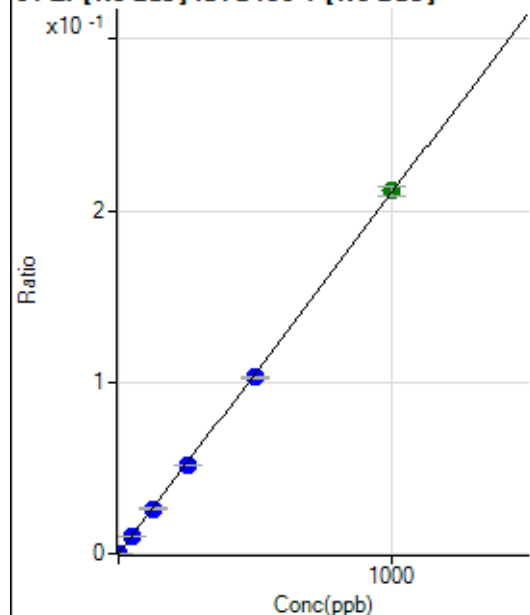
$$DL = 0.01461$$

$$BEC = 0.04458$$

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	92.22	0.0000	P	3.2
2	☐	1.000	0.838	2022.38	0.0002	P	8.4
3	☐	50.000	48.750	111459.66	0.0103	P	2.3
4	☐	125.000	124.427	274723.44	0.0262	P	2.4
5	☐	250.000	243.991	527713.79	0.0513	P	1.0
6	☐	500.000	490.013	1020510.37	0.1030	P	1.2
7	☐	1000.000	1006.630	2074263.13	0.2116	A	2.5
8	☐			894.49	0.0001	P	23.2

$$y = 2.1016\text{E-}004 * x + 9.3236\text{E-}006$$

$$R = 0.9999$$

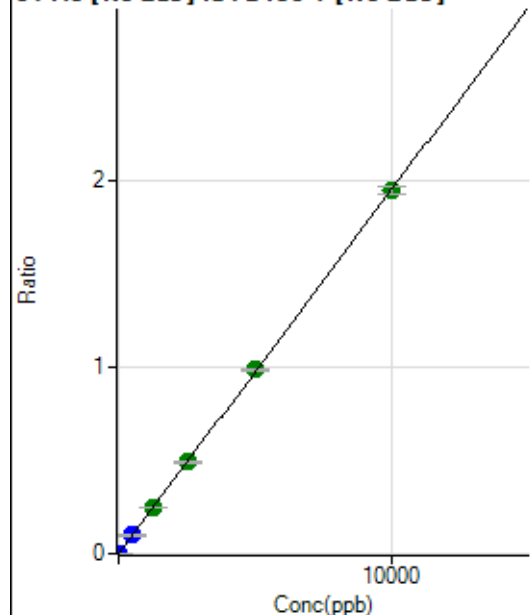
$$DL = 0.004213$$

$$BEC = 0.04437$$

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	131.11	0.0000	P	18.1
2	☐	5.000	5.040	10869.88	0.0010	P	1.1
3	☐	500.000	502.479	1066093.90	0.0981	P	1.4
4	☐	1250.000	1272.791	2608600.01	0.2484	A	3.0
5	☐	2500.000	2519.937	5060239.16	0.4918	A	1.3
6	☐	5000.000	5048.183	9761885.34	0.9852	A	1.6
7	☐	10000.000	9967.952	19073387.77	1.9453	A	2.1
8	☐			3759.63	0.0004	P	11.4

$$y = 1.9515\text{E-}004 * x + 1.3178\text{E-}005$$

$$R = 1.0000$$

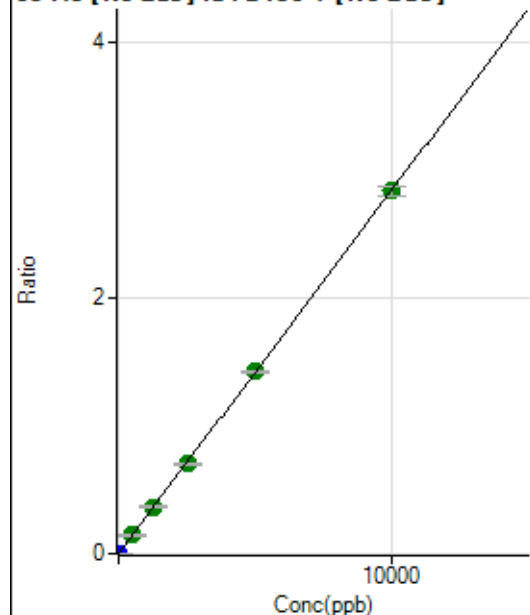
$$DL = 0.03657$$

$$BEC = 0.06753$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.67	0.0000	P	39.9
2	☐	5.000	4.244	13157.43	0.0012	P	2.6
3	☐	500.000	504.119	1553075.93	0.1429	A	3.5
4	☐	1250.000	1280.755	3812398.83	0.3630	A	3.3
5	☐	2500.000	2479.729	7232227.46	0.7029	A	1.4
6	☐	5000.000	5019.831	14100190.07	1.4229	A	1.2
7	☐	10000.000	9991.102	27766129.03	2.8320	A	2.8
8	☐			4133.20	0.0004	P	17.7

$$y = 2.8345E-004 * x + 3.7831E-006$$

$$R = 1.0000$$

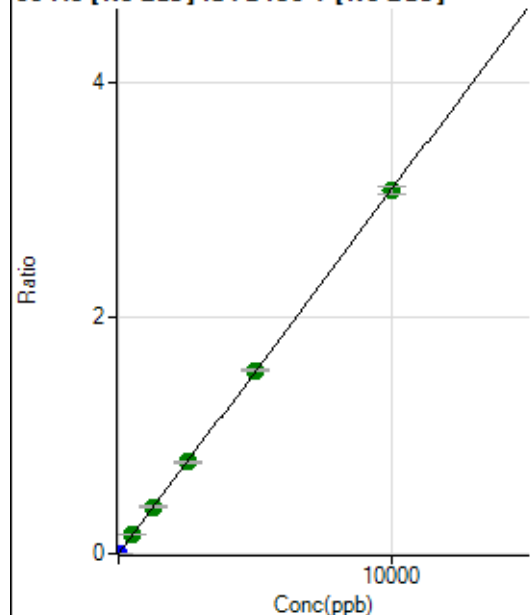
$$DL = 0.01599$$

$$BEC = 0.01335$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	157.78	0.0000	P	13.6
2	☐	5.000	4.397	14989.27	0.0014	P	2.4
3	☐	500.000	507.564	1704984.71	0.1568	A	1.2
4	☐	1250.000	1284.741	4169362.68	0.3970	A	2.1
5	☐	2500.000	2524.255	8025121.41	0.7800	A	1.7
6	☐	5000.000	5044.951	15447572.27	1.5588	A	0.9
7	☐	10000.000	9966.740	30194686.49	3.0795	A	2.2
8	☐			4788.96	0.0005	P	10.5

$$y = 3.0898E-004 * x + 1.6042E-005$$

$$R = 1.0000$$

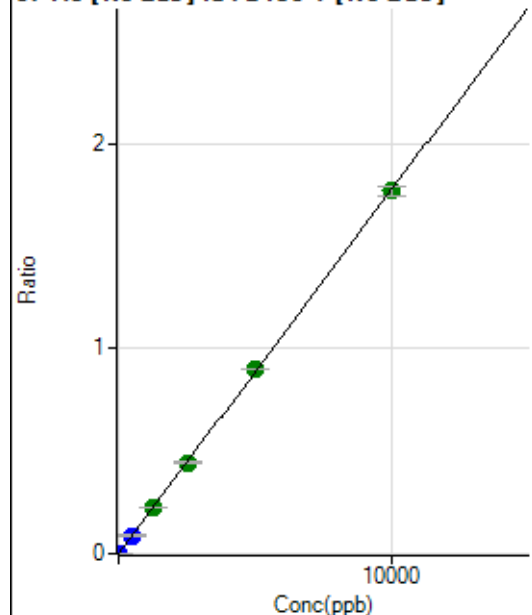
$$DL = 0.02116$$

$$BEC = 0.05192$$

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	27.78	0.0000	P	19.4
2	☐	5.000	4.292	8343.69	0.0008	P	3.4
3	☐	500.000	501.634	968588.94	0.0891	P	1.3
4	☐	1250.000	1261.839	2354116.63	0.2241	A	1.7
5	☐	2500.000	2492.089	4554305.24	0.4426	A	2.6
6	☐	5000.000	5062.690	8910991.74	0.8992	A	0.6
7	☐	10000.000	9969.071	17360871.13	1.7707	A	2.7
8	☐			2467.02	0.0003	P	13.3

$$y = 1.7762\text{E-}004 * x + 2.7817\text{E-}006$$

$$R = 1.0000$$

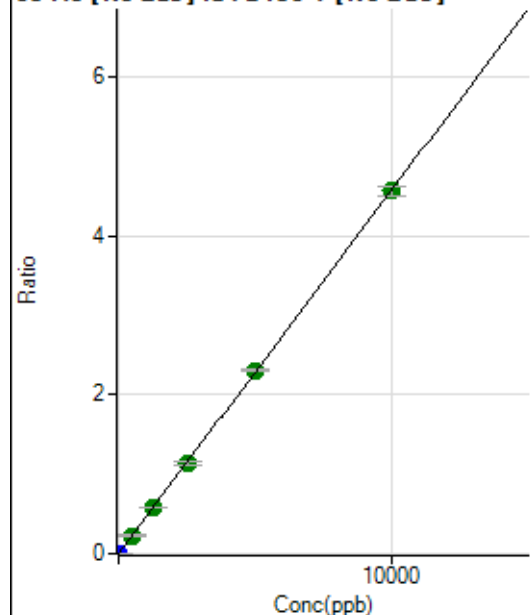
$$DL = 0.009096$$

$$BEC = 0.01566$$

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	65.56	0.0000	P	6.0
2	☐	5.000	4.301	21551.27	0.0020	P	1.1
3	☐	500.000	500.414	2491222.06	0.2292	A	1.6
4	☐	1250.000	1255.159	6037857.34	0.5748	A	1.3
5	☐	2500.000	2492.968	11744690.80	1.1416	A	3.6
6	☐	5000.000	5033.285	22839891.60	2.3049	A	1.1
7	☐	10000.000	9984.450	44829599.33	4.5722	A	2.6
8	☐			5967.44	0.0006	P	13.1

$$y = 4.5794\text{E-}004 * x + 6.6383\text{E-}006$$

$$R = 1.0000$$

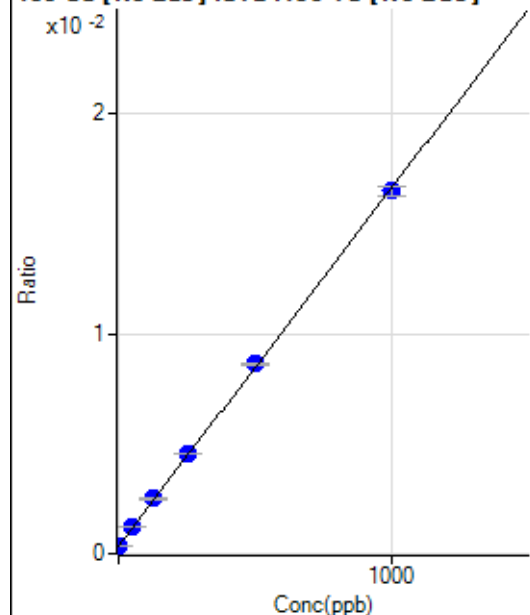
$$DL = 0.002603$$

$$BEC = 0.0145$$

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	2774.76	0.0003	P	1.5
2	☐	1.000	0.804	3177.07	0.0004	P	3.8
3	☐	50.000	54.056	11090.09	0.0012	P	4.2
4	☐	125.000	133.024	22442.82	0.0025	P	1.9
5	☐	250.000	257.736	40300.98	0.0045	P	0.9
6	☐	500.000	508.611	74684.53	0.0086	P	1.0
7	☐	1000.000	992.555	142641.94	0.0165	P	2.6
8	☐			2754.75	0.0003	P	0.2

$$y = 1.6290\text{E-}005 * x + 3.3870\text{E-}004$$

$$R = 0.9999$$

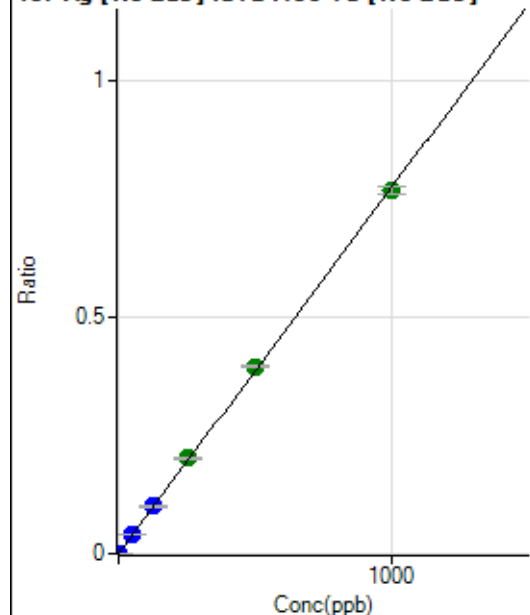
$$DL = 0.9397$$

$$BEC = 20.79$$

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	47.78	0.0000	P	16.2
2	☐	1.000	0.971	6842.87	0.0008	P	2.9
3	☐	50.000	52.383	369101.30	0.0406	P	1.5
4	☐	125.000	129.670	899474.14	0.1004	P	2.2
5	☐	250.000	260.915	1794919.19	0.2021	A	2.8
6	☐	500.000	510.795	3425880.78	0.3956	A	1.2
7	☐	1000.000	991.171	6633218.23	0.7676	A	2.2
8	☐			1397.95	0.0002	P	14.4

$$y = 7.7444\text{E-}004 * x + 5.8056\text{E-}006$$

$$R = 0.9998$$

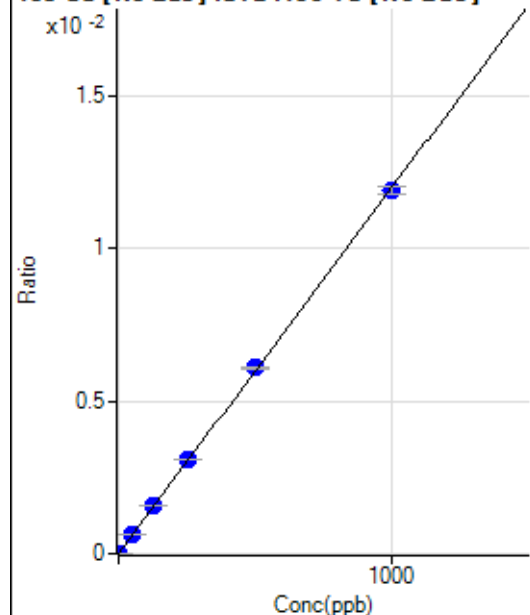
$$DL = 0.003644$$

$$BEC = 0.007496$$

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	7.78	0.0000	P	22.9
2	☐	1.000	1.010	117.78	0.0000	P	10.3
3	☐	50.000	53.504	5830.18	0.0006	P	1.1
4	☐	125.000	132.657	14217.43	0.0016	P	2.0
5	☐	250.000	258.086	27421.78	0.0031	P	0.9
6	☐	500.000	509.112	52731.59	0.0061	P	1.3
7	☐	1000.000	992.290	102550.82	0.0119	P	2.1
8	☐			83.33	0.0000	P	24.5

$$y = 1.1958\text{E-}005 * x + 9.5060\text{E-}007$$

$$R = 0.9999$$

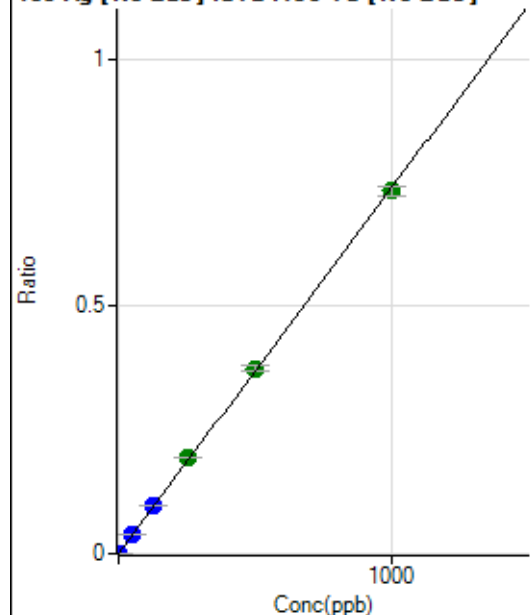
$$DL = 0.05456$$

$$BEC = 0.07949$$

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	16.67	0.0000	P	80.1
2	☐	1.000	0.953	6370.42	0.0007	P	3.5
3	☐	50.000	52.598	353428.75	0.0389	P	1.9
4	☐	125.000	130.474	863136.95	0.0964	P	2.4
5	☐	250.000	263.862	1731117.81	0.1949	A	1.0
6	☐	500.000	506.804	3241628.32	0.3743	A	2.5
7	☐	1000.000	992.318	6333258.10	0.7329	A	2.6
8	☐			1226.75	0.0001	P	5.6

$$y = 7.3862\text{E-}004 * x + 2.1184\text{E-}006$$

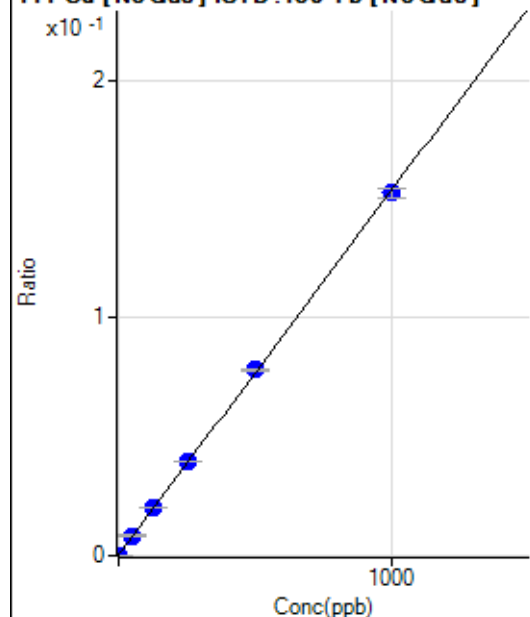
$$R = 0.9999$$

$$DL = 0.006895$$

$$BEC = 0.002868$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1943.56	0.0002	P	1.5
2	☐	1.000	0.977	3494.92	0.0004	P	2.5
3	☐	50.000	53.481	76772.79	0.0084	P	2.2
4	☐	125.000	130.746	181723.82	0.0203	P	2.4
5	☐	250.000	257.425	352799.03	0.0397	P	0.6
6	☐	500.000	508.497	677446.60	0.0782	P	1.1
7	☐	1000.000	993.003	1318094.29	0.1525	P	2.4
8	☐			2573.35	0.0003	P	0.7

$$y = 1.5337E-004 * x + 2.3725E-004$$

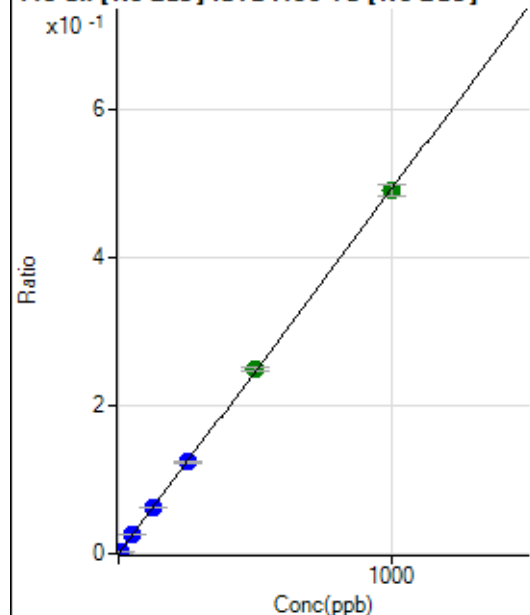
$$R = 0.9999$$

$$DL = 0.07016$$

$$BEC = 1.547$$

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	476.68	0.0001	P	4.5
2	☐	5.000	4.735	21594.91	0.0024	P	0.6
3	☐	50.000	51.095	229638.04	0.0252	P	2.1
4	☐	125.000	127.825	564903.12	0.0631	P	1.5
5	☐	250.000	251.013	1099529.18	0.1238	P	0.9
6	☐	500.000	507.620	2167534.66	0.2503	A	2.6
7	☐	1000.000	995.530	4240502.75	0.4908	A	3.2
8	☐			2653.62	0.0003	P	1.6

$$y = 4.9293E-004 * x + 5.8364E-005$$

$$R = 1.0000$$

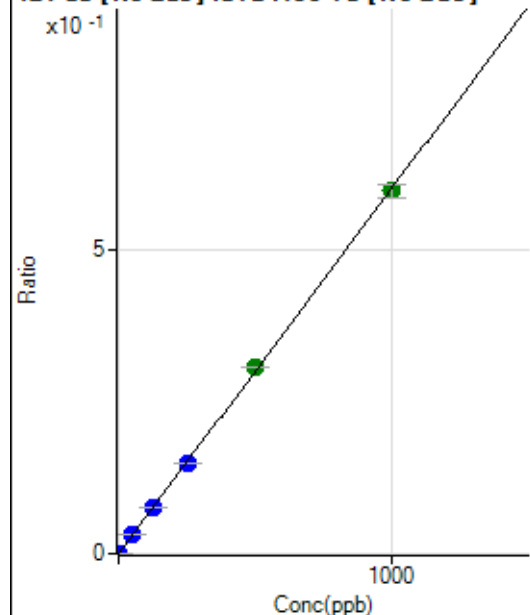
$$DL = 0.01589$$

$$BEC = 0.1184$$

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	26.67	0.0000	P	8.4
2	☐	2.000	1.830	9938.13	0.0011	P	1.8
3	☐	50.000	50.978	278163.38	0.0306	P	1.4
4	☐	125.000	125.700	675253.50	0.0754	P	1.8
5	☐	250.000	246.995	1315758.65	0.1481	P	0.5
6	☐	500.000	512.577	2662296.38	0.3074	A	0.5
7	☐	1000.000	994.327	5152209.09	0.5963	A	3.4
8	☐			3929.50	0.0005	P	10.1

$$y = 5.9973\text{E-}004 * x + 3.2728\text{E-}006$$

$$R = 0.9999$$

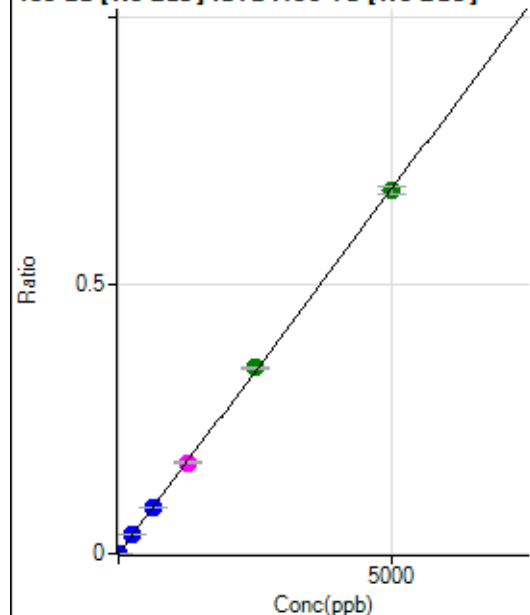
$$DL = 0.001379$$

$$BEC = 0.005457$$

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	52.22	0.0000	P	49.6
2	☐	10.000	9.091	11206.96	0.0012	P	2.0
3	☐	250.000	252.024	311566.01	0.0342	P	0.7
4	☐	625.000	629.715	766343.26	0.0856	P	1.5
5	☐	1250.000	1250.955	1509556.83	0.1700	M	1.8
6	☐	2500.000	2546.285	2995654.19	0.3459	A	1.6
7	☐	5000.000	4975.930	5841589.01	0.6760	A	2.3
8	☐			3225.98	0.0004	P	0.8

$$y = 1.3585\text{E-}004 * x + 6.5513\text{E-}006$$

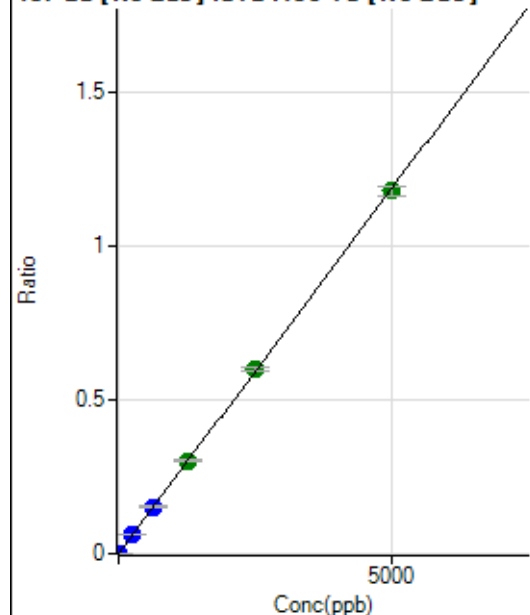
$$R = 0.9999$$

$$DL = 0.07179$$

$$BEC = 0.04822$$

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	77.78	0.0000	P	24.9
2	☐	10.000	9.388	20146.22	0.0022	P	1.3
3	☐	250.000	258.768	557358.06	0.0613	P	1.4
4	☐	625.000	641.816	1360983.05	0.1519	P	1.7
5	☐	1250.000	1276.235	2683577.08	0.3021	A	1.0
6	☐	2500.000	2534.724	5196330.65	0.6001	A	1.5
7	☐	5000.000	4973.540	10174145.05	1.1774	A	2.3
8	☐			5569.00	0.0007	P	1.7

$$y = 2.3673E-004 * x + 9.3753E-006$$

$$R = 0.9999$$

$$DL = 0.02956$$

$$BEC = 0.0396$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

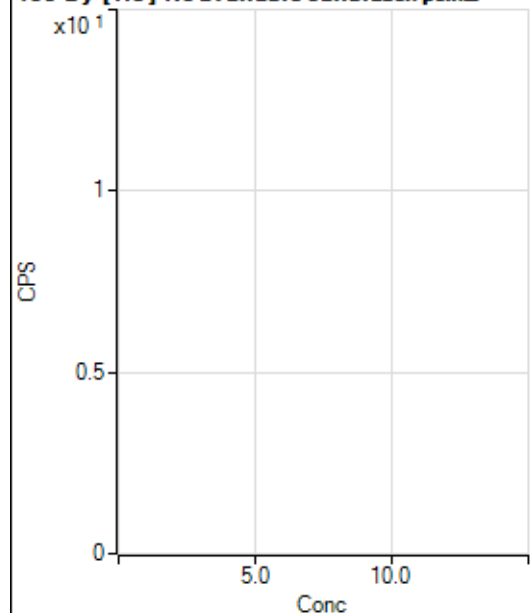
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			10.00		P	57.7
3	☐			24.44		P	20.8
4	☐			46.67		P	7.1
5	☐			107.78		P	20.6
6	☐			193.34		P	10.3
7	☐			345.57		P	18.1
8	☐			202.22		P	11.6

150 Nd [He] No available calibration points

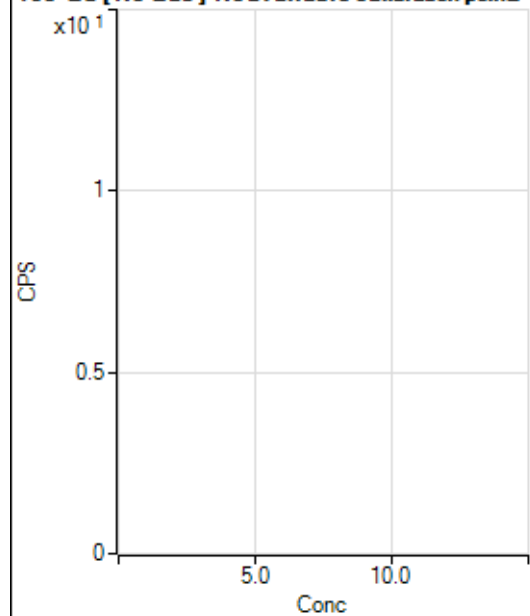
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			7.78		P	49.5
5	☐			15.56		P	32.7
6	☐			34.45		P	20.1
7	☐			42.22		P	46.3
8	☐			75.56		P	13.5

156 Dy [No Gas] No available calibration points

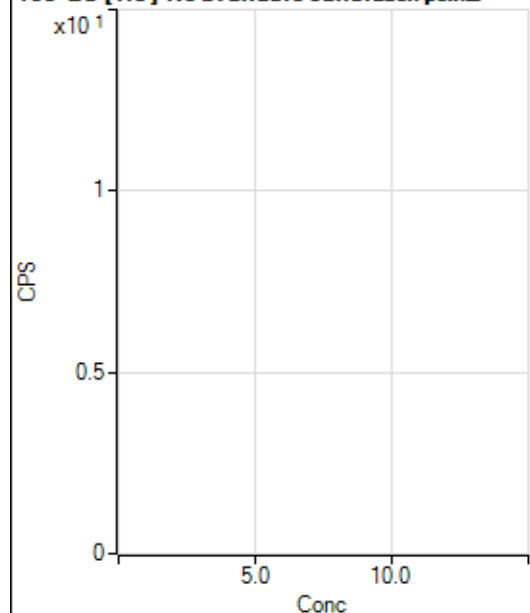
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			13.33		P	66.2
3	☐			30.00		P	22.2
4	☐			67.78		P	28.8
5	☐			87.78		P	24.4
6	☐			180.00		P	12.8
7	☐			322.23		P	5.2
8	☐			1171.17		P	5.5

156 Dy [He] No available calibration points

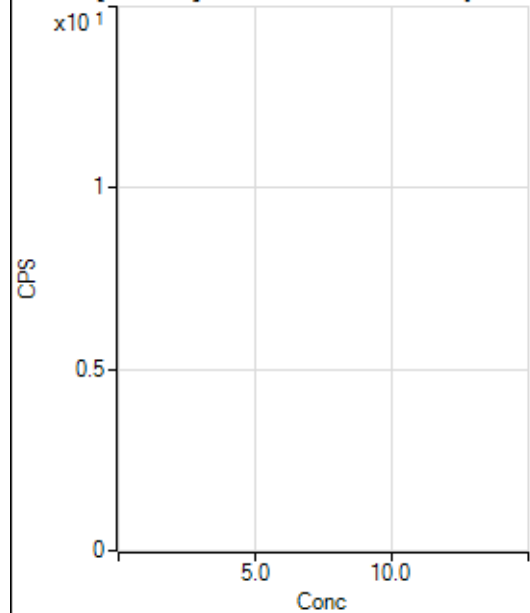
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			3.33		P	100.
3	☐			20.00		P	16.7
4	☐			38.89		P	34.6
5	☐			77.78		P	27.6
6	☐			101.11		P	22.0
7	☐			217.78		P	29.3
8	☐			602.24		P	8.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			87.78		P	15.3
2	☐			85.55		P	22.8
3	☐			100.00		P	13.3
4	☐			136.67		P	23.3
5	☐			165.56		P	28.8
6	☐			217.78		P	10.7
7	☐			362.23		P	3.7
8	☐			1423.43		P	2.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			128.89		P	6.0
2	☐			151.11		P	14.4
3	☐			148.89		P	10.6
4	☐			152.23		P	23.6
5	☐			166.67		P	12.2
6	☐			202.23		P	12.1
7	☐			246.67		P	11.1
8	☐			811.14		P	1.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	20.0
2	☐			60.00		P	9.6
3	☐			66.67		P	36.1
4	☐			63.33		P	19.0
5	☐			75.55		P	22.2
6	☐			120.00		P	20.0
7	☐			165.56		P	16.8
8	☐			194.45		P	20.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	42.3
2	☐			32.22		P	15.8
3	☐			36.66		P	31.5
4	☐			44.44		P	41.3
5	☐			37.78		P	28.4
6	☐			45.55		P	8.5
7	☐			76.67		P	11.5
8	☐			107.78		P	20.6

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.67		P	21.4
2	☐			70.00		P	21.8
3	☐			55.56		P	39.0
4	☐			73.33		P	9.1
5	☐			97.78		P	5.2
6	☐			125.56		P	14.6
7	☐			200.00		P	3.3
8	☐			170.00		P	11.9

172 Yb [He] No available calibration points

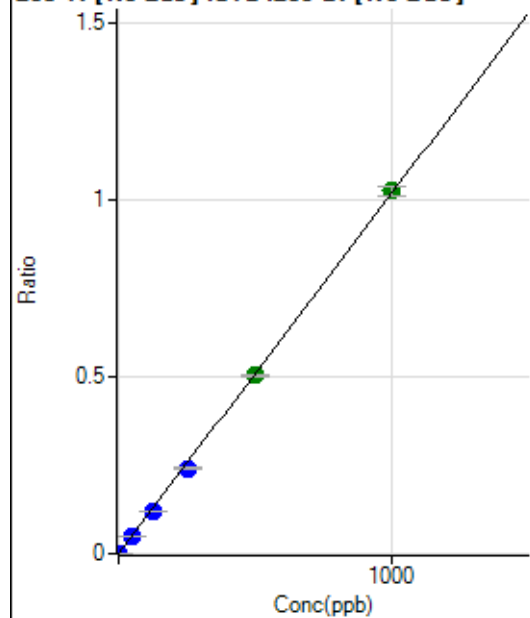
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	51.5
2	☐			35.55		P	19.5
3	☐			31.11		P	6.2
4	☐			47.78		P	47.5
5	☐			50.00		P	37.1
6	☐			80.00		P	25.0
7	☐			117.78		P	21.2
8	☐			84.44		P	13.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1093.39		P	12.3
2	☐			1170.07		P	7.0
3	☐			2416.92		P	3.3
4	☐			4019.54		P	3.5
5	☐			7050.85		P	1.6
6	☐			12868.58		P	1.3
7	☐			24723.24		P	2.7
8	☐			1101.17		P	11.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10543.18		P	0.9
2	☐			10823.41		P	2.1
3	☐			11014.71		P	0.7
4	☐			11979.97		P	1.9
5	☐			12917.55		P	0.5
6	☐			15454.71		P	1.0
7	☐			20550.52		P	1.8
8	☐			10797.83		P	3.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	37.2
2	☐	1.000	0.846	5228.88	0.0009	P	1.9
3	☐	50.000	46.993	287481.33	0.0479	P	2.3
4	☐	125.000	116.371	703568.26	0.1186	P	1.9
5	☐	250.000	236.571	1422822.36	0.2412	P	3.2
6	☐	500.000	494.786	2934997.21	0.5044	A	1.7
7	☐	1000.000	1007.194	5735818.25	1.0267	A	2.3
8	☐			4457.49	0.0009	P	120.

$$y = 0.0010 * x + 9.4172E-006$$

$$R = 0.9999$$

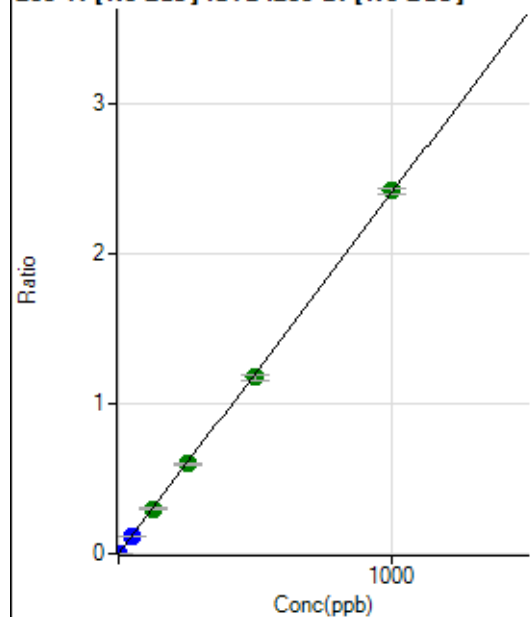
$$DL = 0.0103$$

$$BEC = 0.009239$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	25.8
2	☐	1.000	0.863	12572.87	0.0021	P	0.9
3	☐	50.000	47.631	688306.72	0.1147	P	1.6
4	☐	125.000	125.004	1785224.52	0.3010	A	2.2
5	☐	250.000	248.732	3534491.40	0.5989	A	1.9
6	☐	500.000	489.049	6851235.66	1.1775	A	2.8
7	☐	1000.000	1005.910	13531990.22	2.4220	A	1.6
8	☐			8837.73	0.0018	P	108.

$$y = 0.0024 * x + 1.8586E-005$$

$$R = 0.9999$$

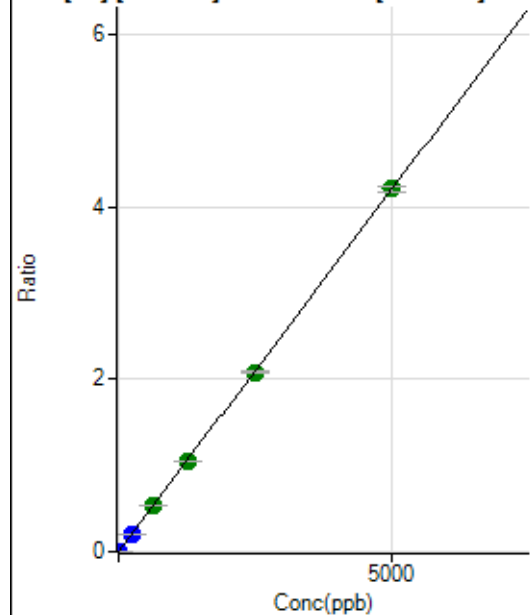
$$DL = 0.005972$$

$$BEC = 0.007719$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	162.23	0.0000	P	2.7
2	☐	1.000	0.832	4374.12	0.0007	P	0.6
3	☐	250.000	237.674	1199314.51	0.1999	P	1.8
4	☐	625.000	639.197	3187011.48	0.5375	A	3.3
5	☐	1250.000	1247.125	6189236.78	1.0486	A	0.9
6	☐	2500.000	2477.805	12123285.51	2.0834	A	1.6
7	☐	5000.000	5010.658	23538693.26	4.2130	A	1.3
8	☐			18669.65	0.0037	P	76.8

$$y = 8.4079E-004 * x + 2.9981E-005$$

$$R = 1.0000$$

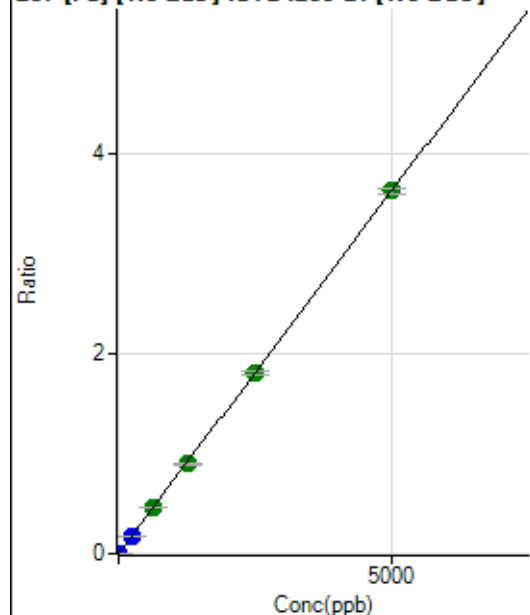
$$DL = 0.002847$$

$$BEC = 0.03566$$

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	103.33	0.0000	P	21.8
2	☐	1.000	0.852	3821.71	0.0006	P	3.9
3	☐	250.000	242.433	1054351.39	0.1757	P	1.2
4	☐	625.000	636.903	2737177.99	0.4616	A	2.6
5	☐	1250.000	1245.814	5327418.22	0.9028	A	2.2
6	☐	2500.000	2491.226	10505091.09	1.8053	A	1.4
7	☐	5000.000	5004.324	20260476.50	3.6264	A	1.9
8	☐			14783.90	0.0029	P	68.0

$$y = 7.2465\text{E-}004 * x + 1.9312\text{E-}005$$

$$R = 1.0000$$

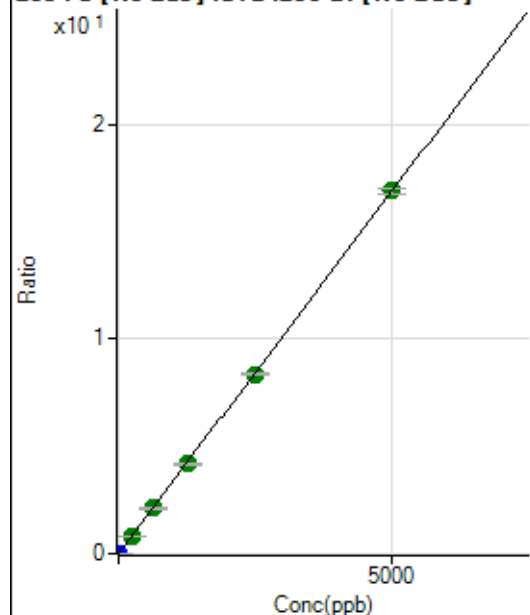
$$DL = 0.01744$$

$$BEC = 0.02665$$

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	564.46	0.0001	P	12.6
2	☐	1.000	0.819	17179.02	0.0029	P	1.8
3	☐	250.000	246.436	4984718.02	0.8307	A	1.0
4	☐	625.000	631.525	12622460.97	2.1285	A	2.9
5	☐	1250.000	1240.490	24672350.08	4.1809	A	1.9
6	☐	2500.000	2480.899	48656601.21	8.3613	A	1.1
7	☐	5000.000	5011.291	94359629.57	16.8894	A	1.9
8	☐			67932.14	0.0135	P	67.1

$$y = 0.0034 * x + 1.0502\text{E-}004$$

$$R = 1.0000$$

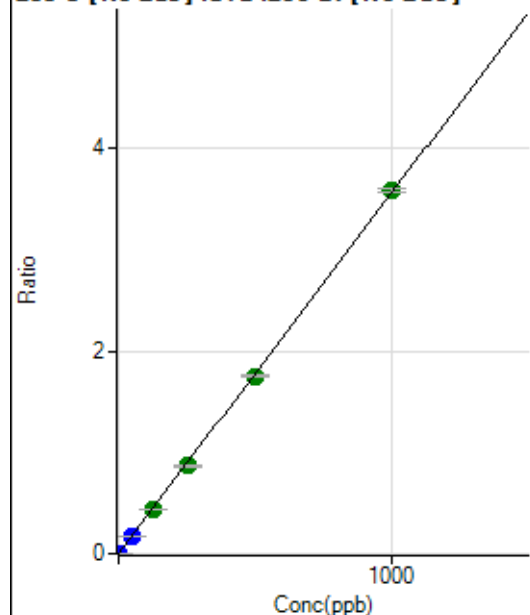
$$DL = 0.01176$$

$$BEC = 0.03116$$

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	23.33	0.0000	P	59.1
2	☐	1.000	0.816	17446.52	0.0029	P	1.4
3	☐	50.000	46.034	982585.22	0.1638	P	2.2
4	☐	125.000	122.084	2576130.38	0.4343	A	0.5
5	☐	250.000	244.117	5124015.41	0.8684	A	2.4
6	☐	500.000	491.336	10171449.78	1.7477	A	1.3
7	☐	1000.000	1006.366	20001023.03	3.5797	A	1.1
8	☐			9177.55	0.0018	P	78.8

$$y = 0.0036 * x + 4.4309E-006$$

$$R = 0.9999$$

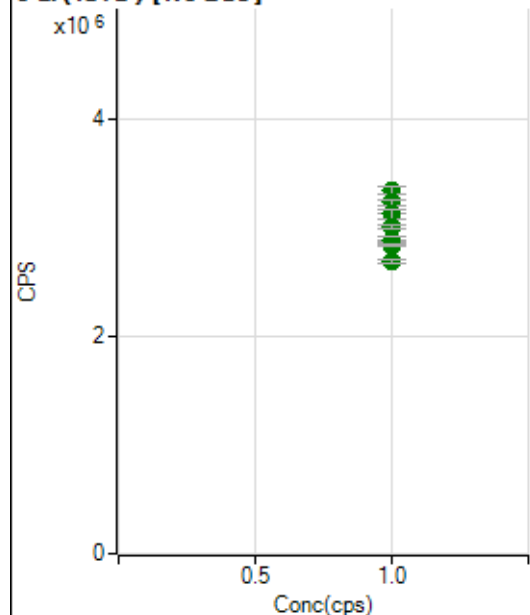
$$DL = 0.002208$$

$$BEC = 0.001246$$

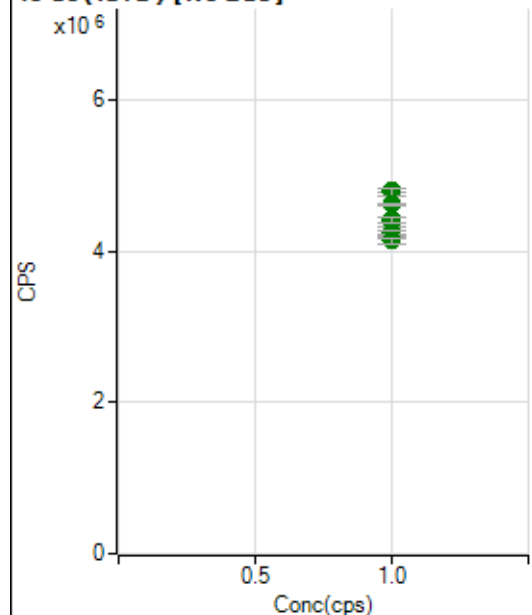
Weight: <None>

Min Conc: 0

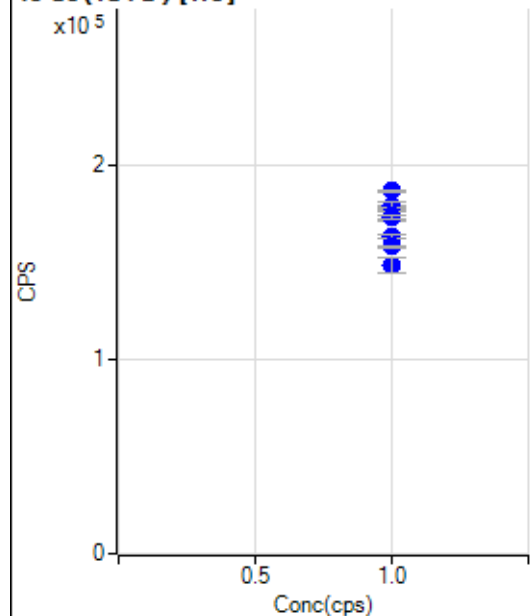
6 Li (ISTD) [No Gas]



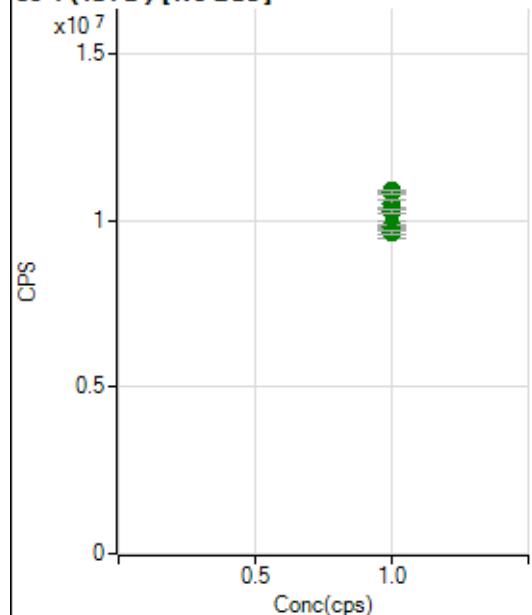
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3005624.41		A	8.4
2	☐	1.000		3338236.03		A	2.2
3	☐	1.000		3232649.47		A	1.8
4	☐	1.000		3123828.51		A	3.1
5	☐	1.000		3003610.78		A	1.0
6	☐	1.000		2892591.87		A	2.4
7	☐	1.000		2836849.36		A	1.0
8	☐	1.000		2688061.37		A	1.1

45 Sc (ISTD) [No Gas]

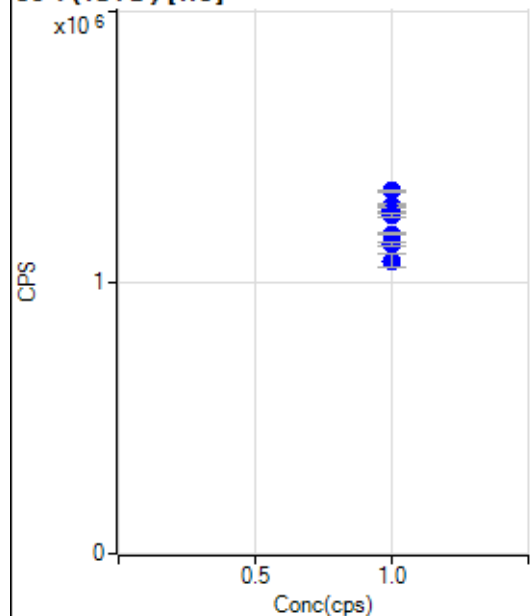
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4408695.70		A	10.2
2	☐	1.000		4795103.99		A	1.2
3	☐	1.000		4779436.56		A	1.7
4	☐	1.000		4619113.30		A	0.4
5	☐	1.000		4410290.94		A	1.3
6	☐	1.000		4255871.67		A	2.5
7	☐	1.000		4250084.69		A	1.0
8	☐	1.000		4131346.33		A	2.2

45 Sc (ISTD) [He]

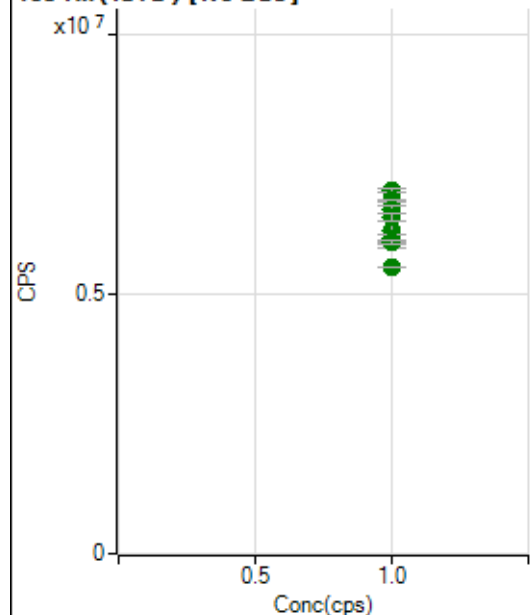
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		178351.27		P	1.5
2	☐	1.000		186912.24		P	0.6
3	☐	1.000		179563.61		P	1.5
4	☐	1.000		173888.00		P	3.0
5	☐	1.000		163452.53		P	1.2
6	☐	1.000		158201.46		P	0.9
7	☐	1.000		149073.00		P	5.3
8	☐	1.000		173351.74		P	0.7

89 Y (ISTD) [No Gas]

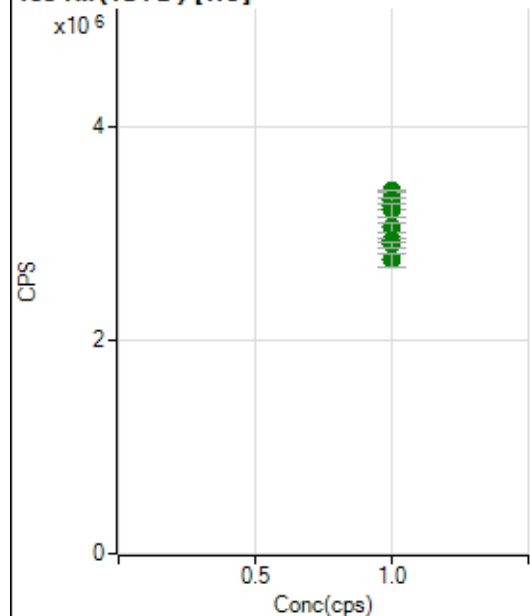
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9909277.91		A	8.6
2	☐	1.000		10904831.92		A	0.4
3	☐	1.000		10871817.48		A	1.4
4	☐	1.000		10505783.87		A	2.0
5	☐	1.000		10290541.79		A	1.3
6	☐	1.000		9910160.61		A	1.6
7	☐	1.000		9806867.77		A	1.3
8	☐	1.000		9628680.76		A	1.3

89 Y (ISTD) [He]

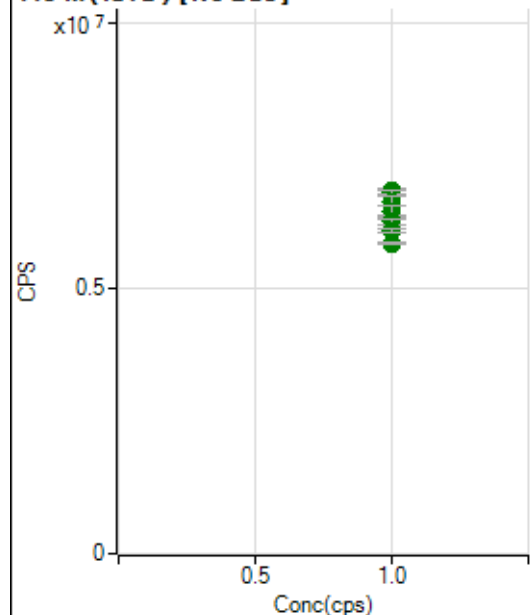
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1268189.32		P	1.0
2	☐	1.000		1335702.32		P	0.3
3	☐	1.000		1283153.64		P	0.3
4	☐	1.000		1257940.40		P	2.6
5	☐	1.000		1177702.90		P	0.9
6	☐	1.000		1141181.02		P	1.1
7	☐	1.000		1077400.66		P	4.5
8	☐	1.000		1247983.26		P	1.0

103 Rh (ISTD) [No Gas]

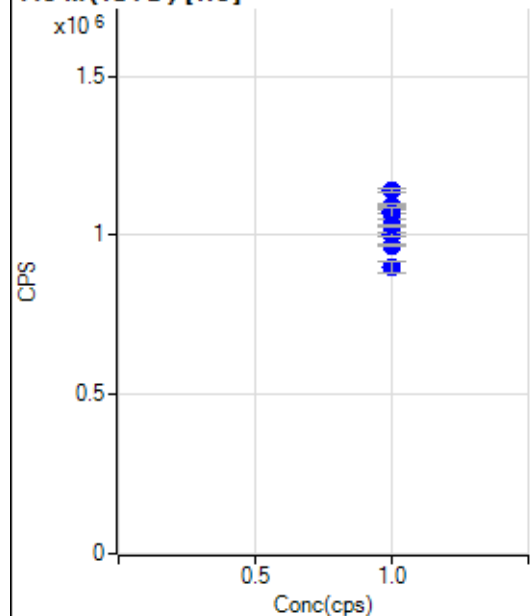
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6214861.16		A	10.4
2	☐	1.000		6982511.36		A	1.0
3	☐	1.000		6793236.15		A	0.9
4	☐	1.000		6612436.01		A	2.1
5	☐	1.000		6476305.88		A	2.2
6	☐	1.000		6069126.09		A	2.1
7	☐	1.000		5996047.06		A	0.7
8	☐	1.000		5506554.32		A	0.1

103 Rh (ISTD) [He]

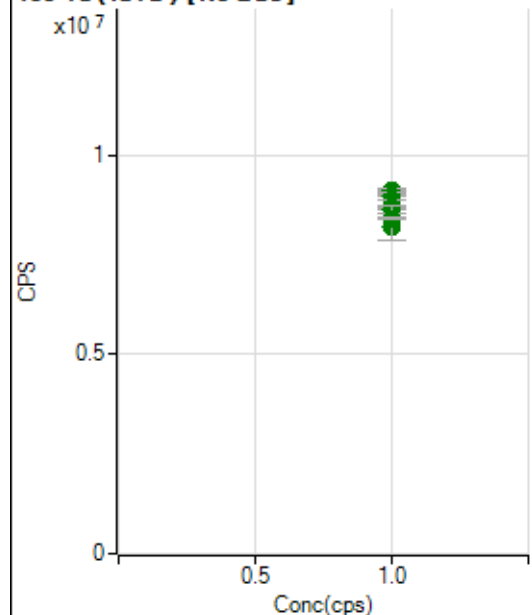
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3253543.91		A	1.9
2	☐	1.000		3400269.92		A	0.4
3	☐	1.000		3308666.10		A	1.3
4	☐	1.000		3217890.72		A	3.4
5	☐	1.000		3058300.13		A	2.6
6	☐	1.000		2933155.06		A	1.0
7	☐	1.000		2753786.31		A	4.6
8	☐	1.000		2898283.67		A	1.7

115 In (ISTD) [No Gas]

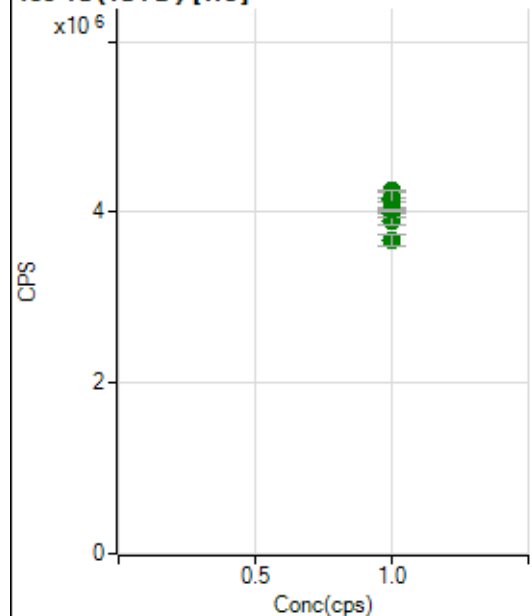
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6121059.60		A	7.9
2	☐	1.000		6845295.88		A	1.3
3	☐	1.000		6834209.77		A	1.1
4	☐	1.000		6650643.96		A	2.8
5	☐	1.000		6469616.39		A	2.6
6	☐	1.000		6262921.51		A	1.4
7	☐	1.000		6088138.58		A	1.2
8	☐	1.000		5854001.56		A	0.9

115 In (ISTD) [He]

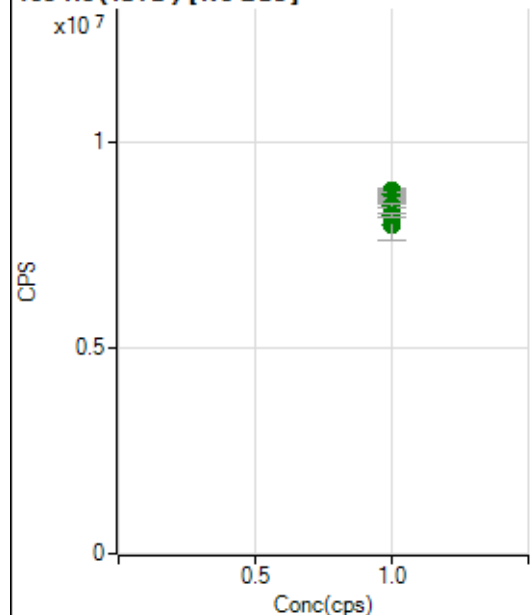
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1075170.54		P	1.7
2	☐	1.000		1139468.34		P	1.0
3	☐	1.000		1095679.20		P	0.2
4	☐	1.000		1068379.42		P	3.0
5	☐	1.000		1003001.09		P	1.5
6	☐	1.000		967340.60		P	0.5
7	☐	1.000		898886.01		P	4.4
8	☐	1.000		1031233.54		P	0.9

159 Tb (ISTD) [No Gas]

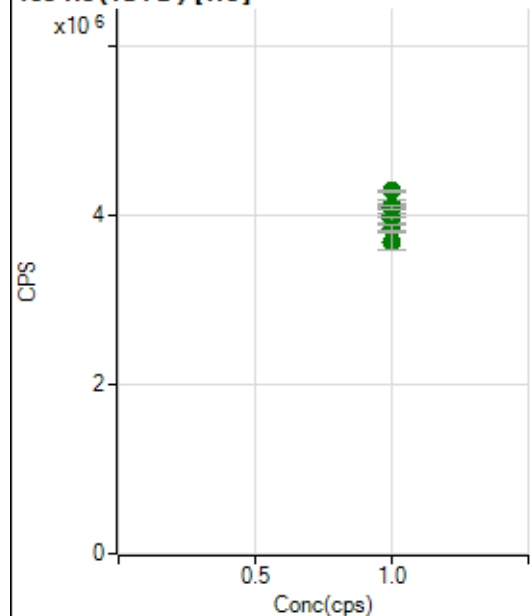
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8186355.37		A	8.1
2	☐	1.000		9027466.12		A	1.4
3	☐	1.000		9098509.17		A	1.6
4	☐	1.000		8958852.85		A	1.9
5	☐	1.000		8882285.49		A	0.2
6	☐	1.000		8660398.48		A	0.8
7	☐	1.000		8644103.55		A	2.2
8	☐	1.000		8408732.03		A	0.3

159 Tb (ISTD) [He]

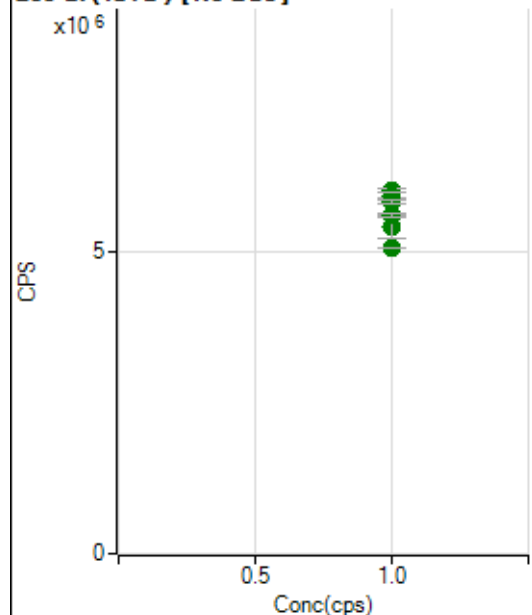
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4020803.17		A	1.9
2	☐	1.000		4250278.86		A	0.8
3	☐	1.000		4139814.21		A	0.8
4	☐	1.000		4164230.81		A	4.8
5	☐	1.000		3995030.08		A	2.5
6	☐	1.000		3899346.82		A	2.0
7	☐	1.000		3672511.13		A	4.1
8	☐	1.000		4021825.08		A	0.2

165 Ho (ISTD) [No Gas]

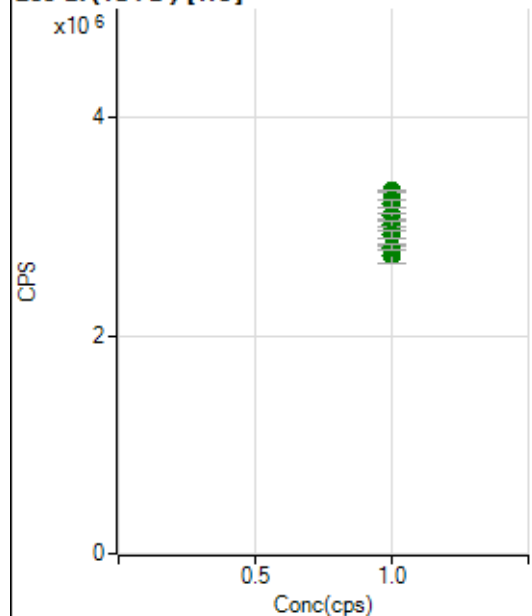
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8030460.51		A	9.6
2	☐	1.000		8823508.13		A	1.5
3	☐	1.000		8834729.80		A	0.6
4	☐	1.000		8750766.19		A	1.2
5	☐	1.000		8638218.83		A	0.5
6	☐	1.000		8484635.43		A	1.5
7	☐	1.000		8494608.14		A	1.2
8	☐	1.000		8246617.03		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3995205.74		A	1.0
2	☐	1.000		4290708.44		A	0.4
3	☐	1.000		4119230.25		A	0.9
4	☐	1.000		4108018.03		A	3.7
5	☐	1.000		3947813.79		A	2.0
6	☐	1.000		3853097.51		A	2.1
7	☐	1.000		3692271.37		A	5.3
8	☐	1.000		4096134.63		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5406397.52		A	7.3
2	☐	1.000		5999270.26		A	1.0
3	☐	1.000		6001296.37		A	0.9
4	☐	1.000		5932199.77		A	1.9
5	☐	1.000		5902902.34		A	2.2
6	☐	1.000		5819870.40		A	1.5
7	☐	1.000		5587667.35		A	1.1
8	☐	1.000		5056692.39		A	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3099070.30		A	1.3
2	☐	1.000		3331342.80		A	0.8
3	☐	1.000		3250190.92		A	0.2
4	☐	1.000		3212575.06		A	2.6
5	☐	1.000		3025717.70		A	1.9
6	☐	1.000		2929204.16		A	2.2
7	☐	1.000		2740796.12		A	5.6
8	☐	1.000		2813288.05		A	1.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8120523-MS1.b

Acq. Date-Time 2023-12-05 09:53:34

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		11184	111840.79			1.715	5.000
24		83474	834738.41			1.651	5.000
25		11136	111363.66			1.381	5.000
26		12953	129534.49			1.367	5.000
59		82068	820677.27			1.286	5.000
113		8846	88462.86			1.885	5.000
115		108595	1085948.82			2.444	5.000
206		28760	287604.48			1.955	5.000
207		25502	255018.67			1.818	5.000
208		62288	622881.00			1.704	5.000
220		0	2.50			14.142	

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

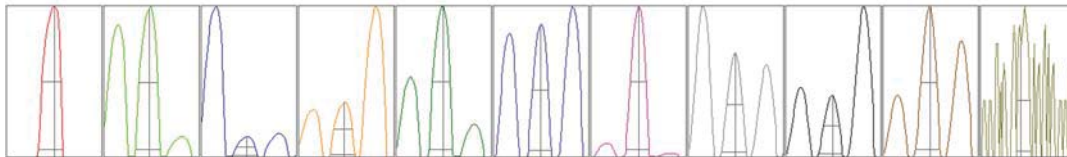
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10871	11348	11295	11134	11271
24	81827	83764	85510	82672	83597
25	10943	11275	11306	11042	11117
26	12709	13188	13041	12906	12924
59	81449	82994	81971	80701	83223
113	8604	9024	8881	8763	8959
115	105398	110018	111446	106154	109958
206	27774	28992	29012	28856	29168
207	24684	25739	25667	25606	25813
208	60460	62551	62433	62820	63178

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	19695.18	9.05	8.90 - 9.10	
24	147654.12	23.95	23.90 - 24.10	
25	19849.60	24.95	24.90 - 25.10	
26	22915.48	25.95	25.90 - 26.10	
59	154487.68	59.00	58.90 - 59.10	
113	18231.91	113.00	112.90 - 113.10	
115	223982.93	115.05	114.90 - 115.10	
206	58796.08	206.00	205.90 - 206.10	
207	51578.17	207.00	206.90 - 207.10	
208	125248.96	208.00	207.90 - 208.10	
220	0.30	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.774	0.900	
24	0.59	0.781	0.900	
25	0.59	0.784	0.900	
26	0.60	0.780	0.900	
59	0.55	0.738	0.900	
113	0.49	0.723	0.900	
115	0.49	0.730	0.900	
206	0.50	0.782	0.900	
207	0.51	0.745	0.900	
208	0.51	0.773	0.900	
220	0.40	0.445		

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	11.0 V	Deflect	14.2 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	120 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2300 V	Pulse HV	1666 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		19424	194243.36			0.559	
89		13533	135328.78			0.454	
205		22624	226235.09			0.627	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	19532	19509	19380	19439	19262
89	13564	13601	13542	13522	13436
205	22640	22824	22635	22593	22426

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	11.0 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2300 V	Pulse HV	1666 V
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