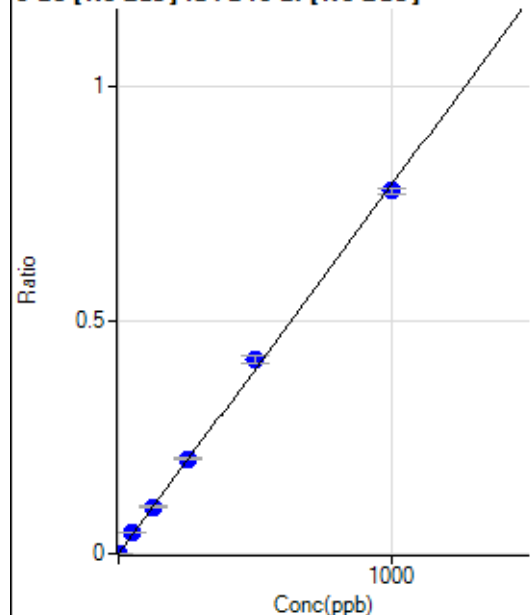


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011922MS1.b\
Analysis File: P8011922MS1.batch.bin
DA Date-Time: 2022-01-19 17:16:25
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2022-01-19 14:56:53
2	004CAL.S.d	S02	2022-01-19 15:03:06
3	006CAL.S.d	S03	2022-01-19 15:09:20
4	007CAL.S.d	S04	2022-01-19 15:12:23
5	008CAL.S.d	S05	2022-01-19 15:15:29
6	009CAL.S.d	S06	2022-01-19 15:18:32
7	010CAL.S.d	S07	2022-01-19 15:21:37
8	011CAL.S.d	S08	2022-01-19 15:24:41

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.99	0.0001	P	28.9
2	☐	1.000	1.072	483.92	0.0009	P	6.0
3	☐	50.000	56.265	23371.96	0.0445	P	0.3
4	☐	125.000	127.601	57522.18	0.1008	P	7.3
5	☐	250.000	257.344	114766.94	0.2033	P	0.9
6	☐	500.000	527.239	233928.71	0.4165	P	4.6
7	☐	1000.000	983.906	473205.78	0.7771	P	1.7
8	☐			484.58	0.0008	P	13.9

$$y = 7.8978E-004 * x + 5.4368E-005$$

$$R = 0.9994$$

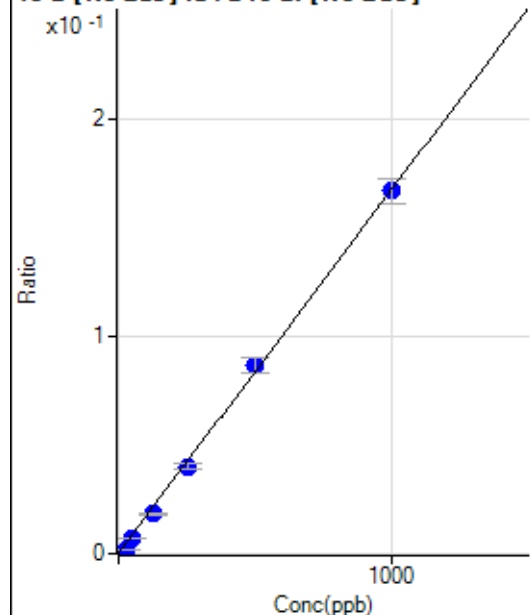
$$DL = 0.05971$$

$$BEC = 0.06884$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	163.30	0.0003	P	8.1
2	☐	25.000	8.953	960.51	0.0018	P	10.2
3	☐	50.000	41.770	3817.10	0.0073	P	5.0
4	☐	125.000	107.733	10450.39	0.0183	P	3.6
5	☐	250.000	237.625	22534.39	0.0399	P	6.0
6	☐	500.000	517.895	48672.26	0.0867	P	8.7
7	☐	1000.000	997.117	101517.96	0.1666	P	6.6
8	☐			13991.97	0.0234	P	10.5

$$y = 1.6678E-004 * x + 2.9483E-004$$

$$R = 0.9995$$

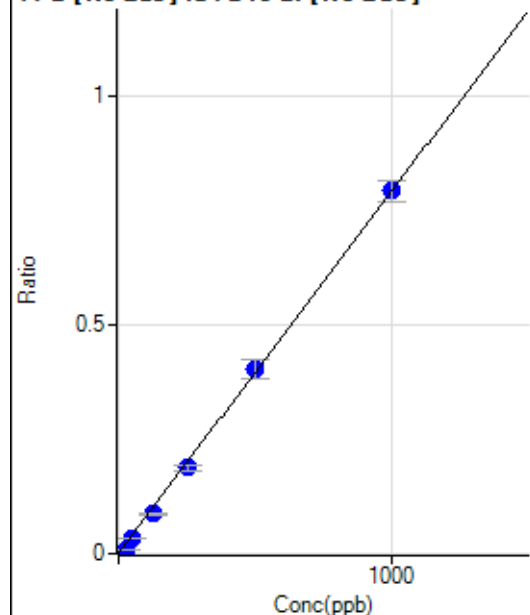
$$DL = 0.4322$$

$$BEC = 1.768$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	706.54	0.0013	P	1.4
2	☐	25.000	9.095	4539.16	0.0085	P	8.7
3	☐	50.000	42.097	18143.10	0.0345	P	6.0
4	☐	125.000	107.822	49425.60	0.0864	P	3.4
5	☐	250.000	237.180	106402.85	0.1885	P	6.3
6	☐	500.000	508.898	226334.06	0.4031	P	9.6
7	☐	1000.000	1001.696	482695.30	0.7921	P	5.7
8	☐			67770.10	0.1132	P	9.8

$$y = 7.8951E-004 * x + 0.0013$$

$$R = 0.9998$$

$$DL = 0.06588$$

$$BEC = 1.613$$

Weight: <None>

Min Conc: 0

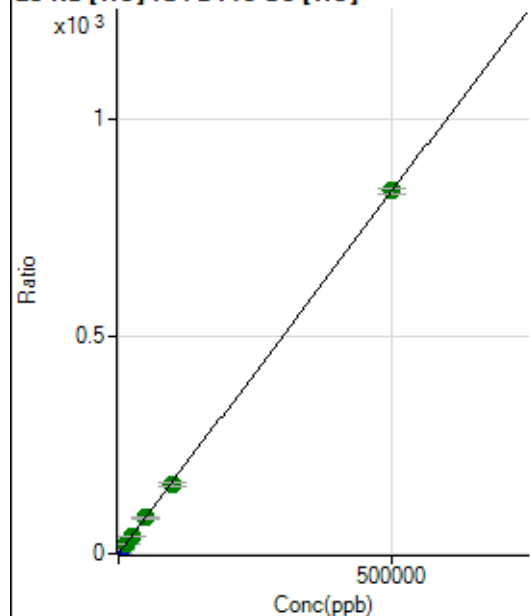
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2131262.33		A	1.9
2	☐			2206550.51		A	2.3
3	☐			2241107.62		A	5.2
4	☐			2286342.39		A	3.6
5	☐			2373259.84		A	1.4
6	☐			2554852.21		A	1.8
7	☐			2698964.51		A	3.3
8	☐			2589403.85		A	4.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35680.40		P	3.4
2	☐			35218.13		P	1.9
3	☐			37431.78		P	1.3
4	☐			38490.09		P	1.4
5	☐			38854.87		P	1.9
6	☐			41799.51		P	3.2
7	☐			46377.11		P	1.8
8	☐			44555.00		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7532.73	0.0735	P	8.4
2	☐	500.000	425.916	83221.18	0.7823	P	1.9
3	☐	5000.000	4831.272	863129.23	8.1143	P	2.6
4	☐	12500.000	12945.684	2233537.55	21.6194	A	7.0
5	☐	25000.000	23933.360	4249848.88	39.9065	A	2.8
6	☐	50000.000	49868.490	8449449.84	83.0711	A	6.9
7	☐	100000.00	95722.360	17016283.89	159.3872	A	3.3
8	☐	500000.00	500912.63	84722606.06	833.7580	A	1.6

$$y = 0.0017 * x + 0.0735$$

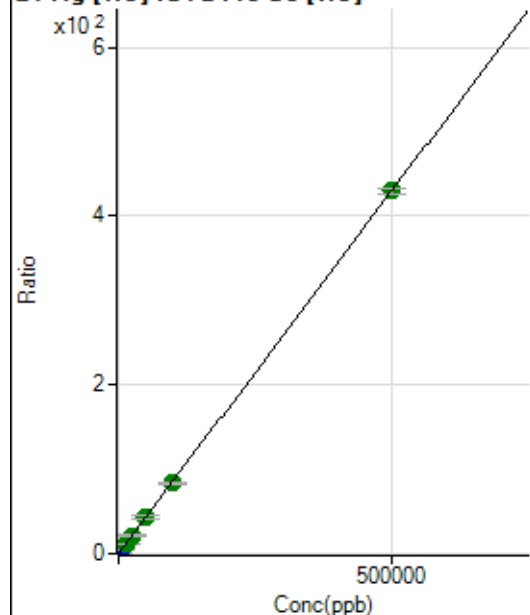
$$R = 1.0000$$

$$DL = 11.16$$

$$BEC = 44.13$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	272.23	0.0027	P	24.6
2	☐	500.000	438.482	40353.70	0.3794	P	2.1
3	☐	5000.000	5062.375	462859.26	4.3516	P	3.5
4	☐	12500.000	13359.132	1185606.80	11.4790	A	7.5
5	☐	25000.000	24927.490	2280818.95	21.4170	A	2.5
6	☐	50000.000	50398.888	4405641.59	43.2986	A	5.5
7	☐	100000.00	97373.848	8930960.27	83.6531	A	3.2
8	☐	500000.00	500466.92	43687888.48	429.9362	A	1.3

$$y = 8.5906\text{E-}004 * x + 0.0027$$

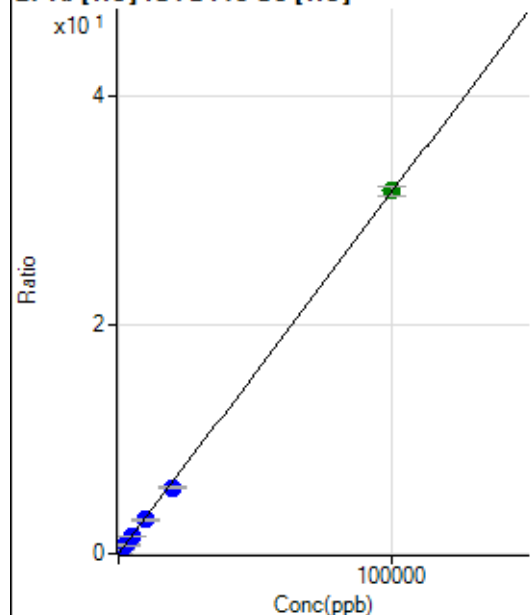
R = 1.0000

DL = 2.303

BEC = 3.114

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0005	P	17.2
2	☐	20.000	15.265	567.86	0.0053	P	8.4
3	☐	1000.000	965.550	32525.82	0.3057	P	1.0
4	☐	2500.000	2444.304	79876.04	0.7732	P	7.0
5	☐	5000.000	4604.594	155083.50	1.4561	P	1.9
6	☐	10000.000	9492.846	305449.78	3.0014	P	4.7
7	☐	20000.000	18326.550	618709.75	5.7939	P	0.9
8	☐	100000.00	100406.91	3225462.63	31.7411	A	2.4

$$y = 3.1612\text{E-}004 * x + 5.1485\text{E-}004$$

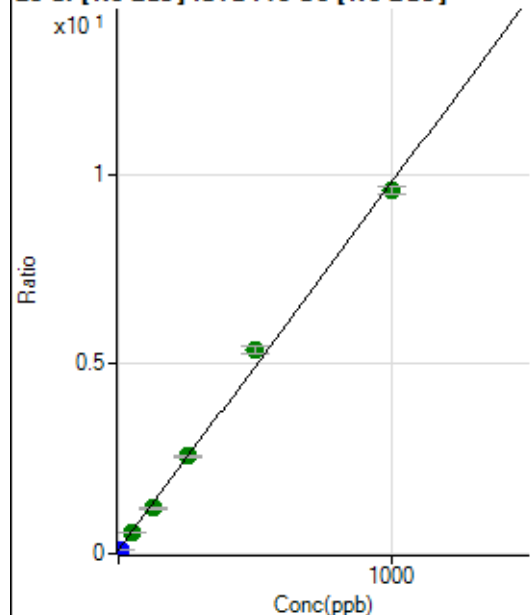
R = 0.9998

DL = 0.8393

BEC = 1.629

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	336729.65	0.1017	P	2.7
2	☐	10.000	0.849	355104.97	0.1099	P	1.4
3	☐	50.000	48.323	1819799.95	0.5696	A	1.2
4	☐	125.000	114.794	4131077.87	1.2132	A	3.6
5	☐	250.000	255.135	8382623.62	2.5721	A	2.4
6	☐	500.000	544.768	16814185.10	5.3765	A	4.4
7	☐	1000.000	977.783	32022517.73	9.5693	A	2.0
8	☐			674164.42	0.2159	P	0.1

$$y = 0.0097 * x + 0.1017$$

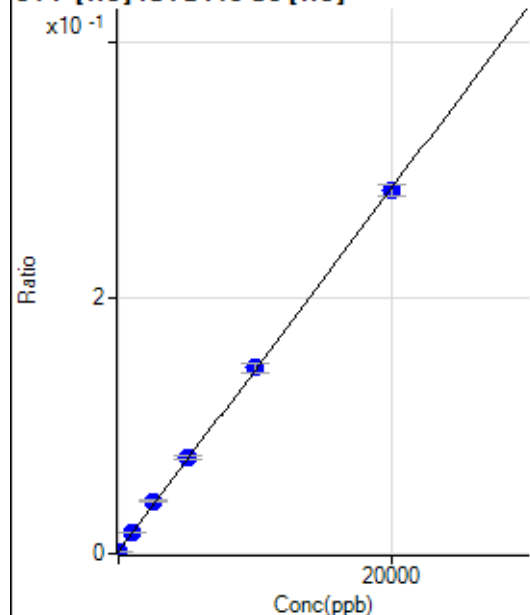
R = 0.9983

DL = 0.844

BEC = 10.5

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-1.456	175.01	0.0017	P	17.4
2	☐	0.000	1.456	186.12	0.0018	P	18.8
3	☐	1000.000	1047.950	1766.82	0.0166	P	5.5
4	☐	2500.000	2768.034	4245.19	0.0410	P	2.7
5	☐	5000.000	5162.689	7985.73	0.0750	P	5.4
6	☐	10000.000	10131.963	14813.46	0.1455	P	4.9
7	☐	20000.000	19857.445	30271.25	0.2835	P	3.2
8	☐			127.78	0.0013	P	20.4

$$y = 1.4192E-005 * x + 0.0017$$

R = 0.9999

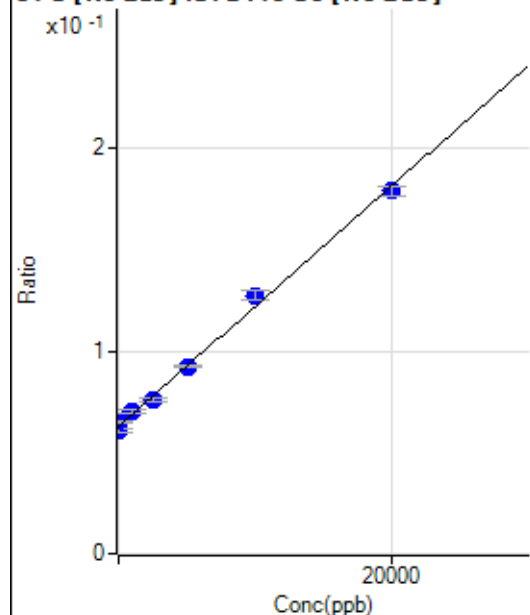
DL = 66.34

BEC = 121.9

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-380.358	200481.79	0.0605	P	2.7
2	☐	0.000	380.358	210175.73	0.0650	P	1.4
3	☐	1000.000	1229.326	223850.38	0.0701	P	2.3
4	☐	2500.000	2175.312	257705.64	0.0757	P	3.0
5	☐	5000.000	4990.134	301115.54	0.0924	P	1.1
6	☐	10000.000	10906.006	398661.03	0.1275	P	3.4
7	☐	20000.000	19578.583	598628.57	0.1789	P	2.9
8	☐			187809.30	0.0602	P	0.8

$$y = 5.9302E-006 * x + 0.0628$$

$$R = 0.9978$$

$$DL = 638.8$$

$$BEC = 1.059E+04$$

Weight: <None>

Min Conc: 0

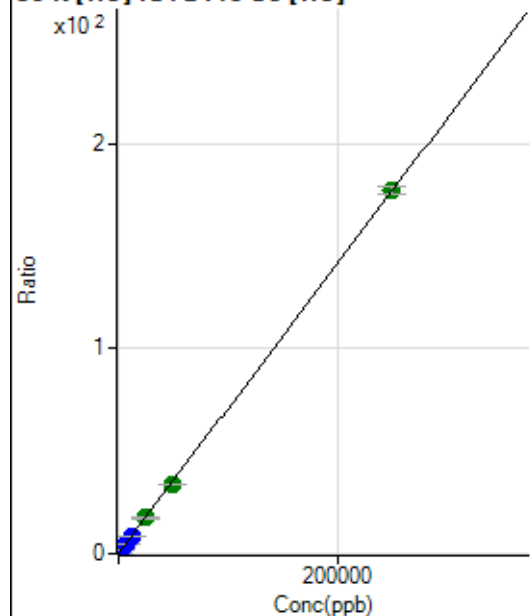
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			492364.95		P	0.5
2	☐			361197.67		P	2.0
3	☐			330017.82		P	2.0
4	☐			301380.53		P	1.0
5	☐			283281.69		P	0.1
6	☐			279744.34		P	0.1
7	☐			258038.87		P	0.4
8	☐			261824.37		P	0.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3820.06		P	9.6
2	☐			2750.33		P	4.1
3	☐			2486.39		P	9.6
4	☐			2219.67		P	8.4
5	☐			2044.64		P	3.5
6	☐			1936.29		P	8.9
7	☐			2058.54		P	12.5
8	☐			1911.28		P	3.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12380.63	0.1207	P	7.7
2	☐	500.000	425.299	44767.23	0.4209	P	3.0
3	☐	2500.000	2434.911	195678.48	1.8393	P	1.4
4	☐	6250.000	6211.020	465265.56	4.5045	P	7.3
5	☐	12500.000	11648.812	888558.80	8.3425	P	1.5
6	☐	25000.000	24849.407	1797088.21	17.6596	A	5.2
7	☐	50000.000	47667.319	3605694.74	33.7646	A	0.4
8	☐	250000.00	250525.93	17977780.43	176.9437	A	2.0

$$y = 7.0581E-004 * x + 0.1207$$

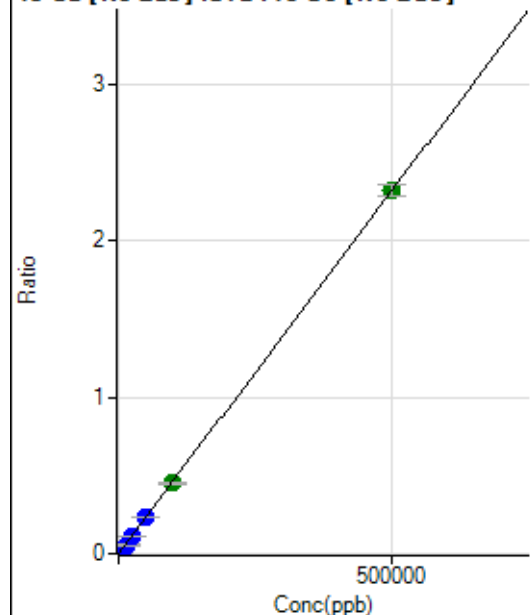
$$R = 1.0000$$

$$DL = 39.29$$

$$BEC = 171$$

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	184.98	0.0001	P	9.3
2	☐	500.000	435.121	6691.16	0.0021	P	1.0
3	☐	5000.000	5084.246	75366.63	0.0236	P	2.8
4	☐	12500.000	11763.373	185629.07	0.0545	P	3.4
5	☐	25000.000	24425.415	368784.52	0.1131	P	1.8
6	☐	50000.000	50187.013	726914.14	0.2324	P	4.1
7	☐	100000.00	97251.531	1507143.66	0.4503	A	2.3
8	☐	500000.00	500577.36	7235609.62	2.3177	A	3.3

$$y = 4.6300\text{E-}006 * x + 5.5920\text{E-}005$$

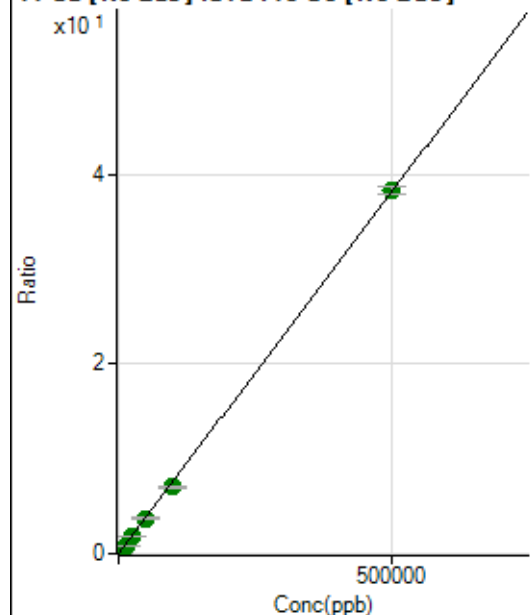
$$R = 1.0000$$

$$DL = 3.357$$

$$BEC = 12.08$$

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	8409.36	0.0025	P	3.8
2	☐	500.000	422.822	112396.19	0.0348	P	0.9
3	☐	5000.000	5031.357	1233615.32	0.3862	A	2.6
4	☐	12500.000	11558.992	3009871.24	0.8839	A	2.8
5	☐	25000.000	23875.021	5943665.28	1.8231	A	1.1
6	☐	50000.000	48360.146	11538590.30	3.6901	A	5.1
7	☐	100000.00	92338.479	23573026.95	7.0435	A	2.1
8	☐	500000.00	501775.82	119465218.7	38.2638	A	2.2

$$y = 7.6252\text{E-}005 * x + 0.0025$$

$$R = 0.9999$$

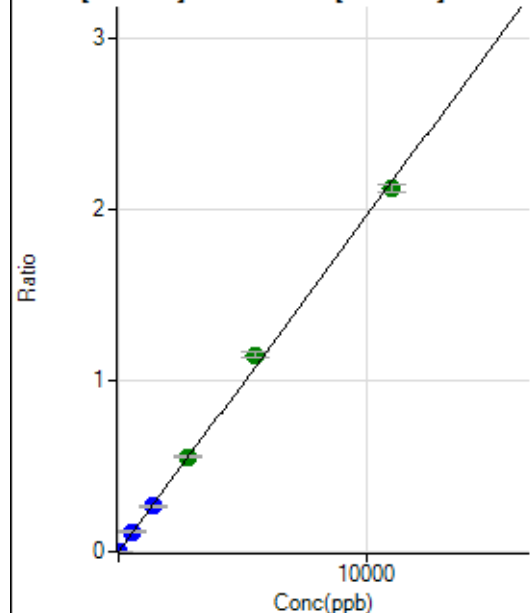
$$DL = 3.81$$

$$BEC = 33.3$$

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	133.34	0.0000	P	25.8
2	☐	5.000	4.854	3206.01	0.0010	P	5.9
3	☐	550.000	595.253	373084.92	0.1168	P	3.5
4	☐	1375.000	1357.790	907147.09	0.2664	P	3.3
5	☐	2750.000	2822.853	1805232.40	0.5538	A	1.6
6	☐	5500.000	5865.013	3599415.66	1.1507	A	3.5
7	☐	11000.000	10799.169	7091121.17	2.1187	A	2.2
8	☐			3167.11	0.0010	P	10.5

$$y = 1.9619E-004 * x + 4.0059E-005$$

$$R = 0.9991$$

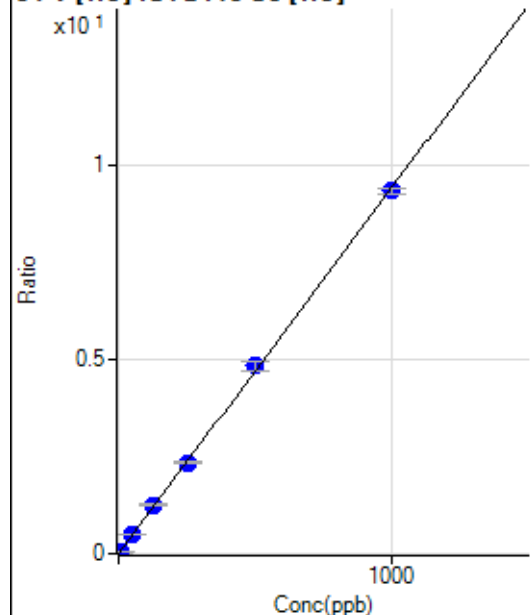
$$DL = 0.1582$$

$$BEC = 0.2042$$

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	8.89	0.0001	P	84.6
2	☐	5.000	4.707	4714.15	0.0443	P	3.0
3	☐	50.000	52.477	52471.44	0.4932	P	1.6
4	☐	125.000	134.043	130104.28	1.2597	P	7.6
5	☐	250.000	249.368	249590.06	2.3434	P	1.7
6	☐	500.000	513.152	490680.39	4.8222	P	5.4
7	☐	1000.000	992.329	995674.77	9.3251	P	1.8
8	☐			666.69	0.0066	P	10.1

$$y = 0.0094 * x + 9.0035E-005$$

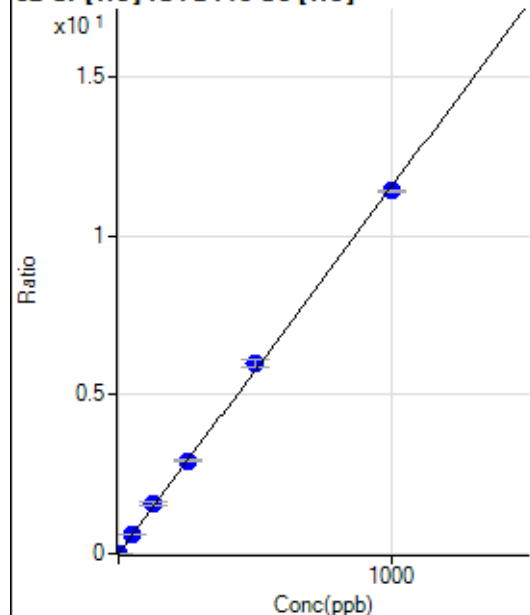
$$R = 0.9998$$

$$DL = 0.02433$$

$$BEC = 0.009581$$

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	341.12	0.0033	P	8.6
2	☐	2.000	1.940	2733.62	0.0257	P	4.4
3	☐	50.000	53.311	65791.92	0.6184	P	0.4
4	☐	125.000	135.685	162051.66	1.5688	P	7.2
5	☐	250.000	253.374	311753.65	2.9267	P	1.0
6	☐	500.000	517.659	608202.98	5.9759	P	4.4
7	☐	1000.000	988.826	1218677.71	11.4122	P	0.8
8	☐			3992.83	0.0393	P	0.5

$$y = 0.0115 * x + 0.0033$$

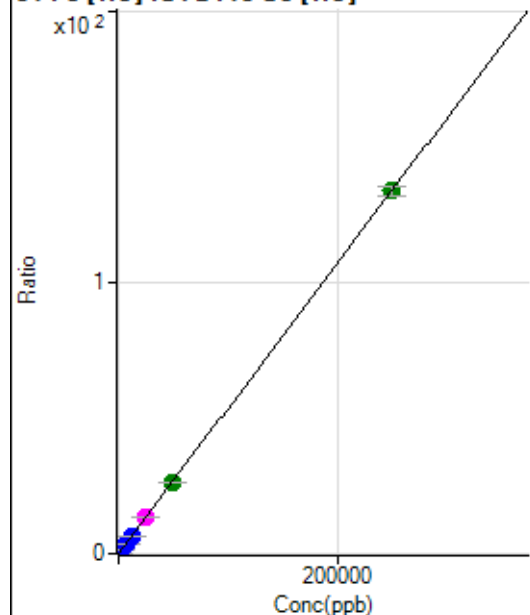
$$R = 0.9997$$

$$DL = 0.07446$$

$$BEC = 0.2877$$

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	407.42	0.0040	P	26.3
2	☐	50.000	45.159	2996.66	0.0282	P	3.7
3	☐	2500.000	2526.847	144301.61	1.3564	P	0.9
4	☐	6250.000	6428.974	355956.14	3.4449	P	6.6
5	☐	12500.000	11974.293	683030.16	6.4128	P	1.4
6	☐	25000.000	25211.391	1374815.90	13.4974	M	2.1
7	☐	50000.000	49062.649	2804118.41	26.2629	A	2.0
8	☐	250000.00	250187.87	13604916.86	133.9072	A	2.5

$$y = 5.3521E-004 * x + 0.0040$$

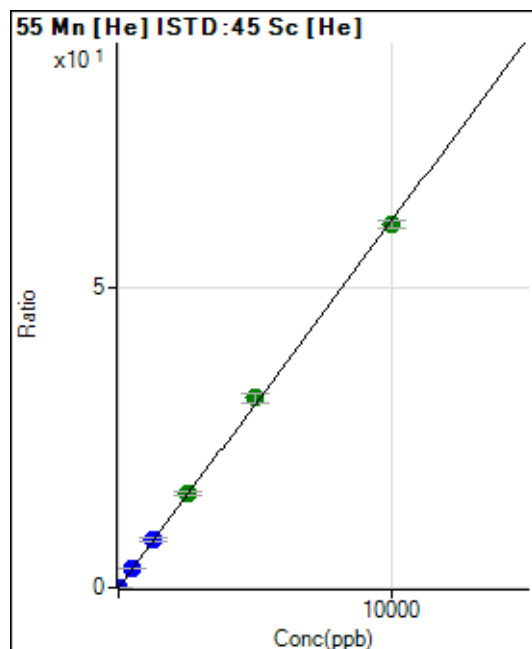
$$R = 1.0000$$

$$DL = 5.893$$

$$BEC = 7.482$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0005	P	37.3
2	☐	1.000	0.973	684.47	0.0064	P	10.6
3	☐	500.000	513.928	334757.10	3.1469	P	2.0
4	☐	1250.000	1306.145	825724.37	7.9971	P	8.1
5	☐	2500.000	2546.040	1659803.88	15.5881	A	4.3
6	☐	5000.000	5181.621	3228945.13	31.7238	A	4.8
7	☐	10000.000	9889.965	6465099.77	60.5497	A	2.2
8	☐			6089.14	0.0599	P	2.6

$$y = 0.0061 * x + 4.7267E-004$$

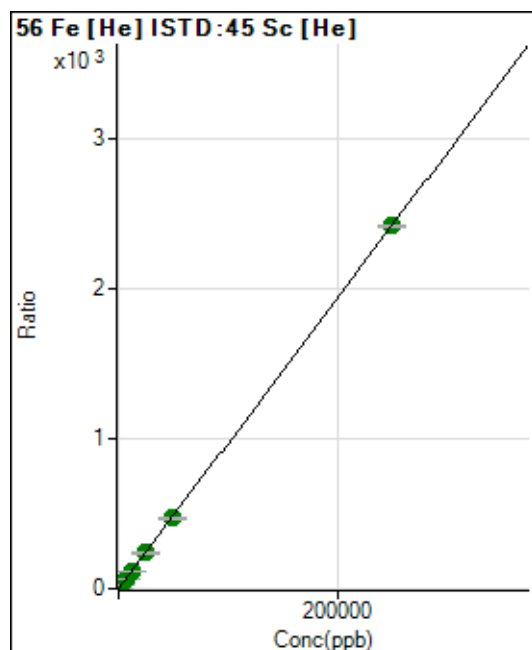
$$R = 0.9997$$

$$DL = 0.08647$$

$$BEC = 0.07721$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2416.92	0.0236	P	13.0
2	☐	50.000	45.140	48958.24	0.4602	P	1.8
3	☐	2500.000	2671.099	2750981.69	25.8607	A	3.4
4	☐	6250.000	6770.196	6763951.77	65.5105	A	8.2
5	☐	12500.000	12463.018	12843423.67	120.5761	A	1.0
6	☐	25000.000	25106.990	24720935.74	242.8789	A	4.8
7	☐	50000.000	48833.514	50432528.90	472.3812	A	2.7
8	☐	250000.00	250209.73	245931314.7	2420.256	A	0.6

$$y = 0.0097 * x + 0.0236$$

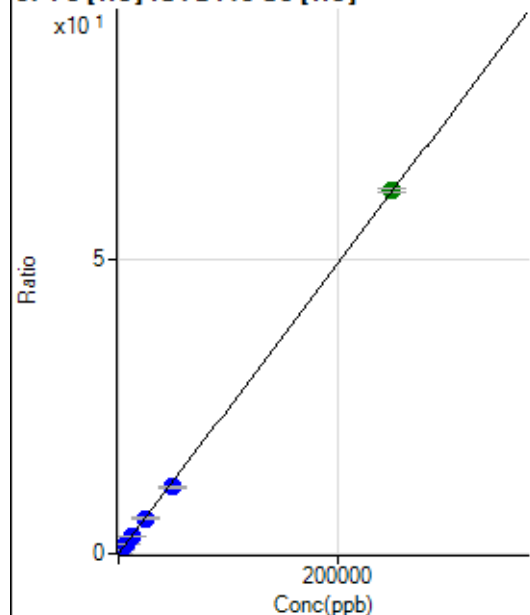
$$R = 1.0000$$

$$DL = 0.9539$$

$$BEC = 2.442$$

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	144.45	0.0014	P	45.4
2	☐	50.000	42.810	1272.30	0.0120	P	7.5
3	☐	2500.000	2482.308	65070.31	0.6117	P	1.5
4	☐	6250.000	6293.422	159986.80	1.5485	P	6.8
5	☐	12500.000	11771.827	308417.75	2.8953	P	1.4
6	☐	25000.000	24122.133	603670.02	5.9313	P	4.7
7	☐	50000.000	45938.940	1205937.11	11.2945	P	1.9
8	☐	250000.00	250935.50	6267863.45	61.6883	A	1.1

$$y = 2.4583E-004 * x + 0.0014$$

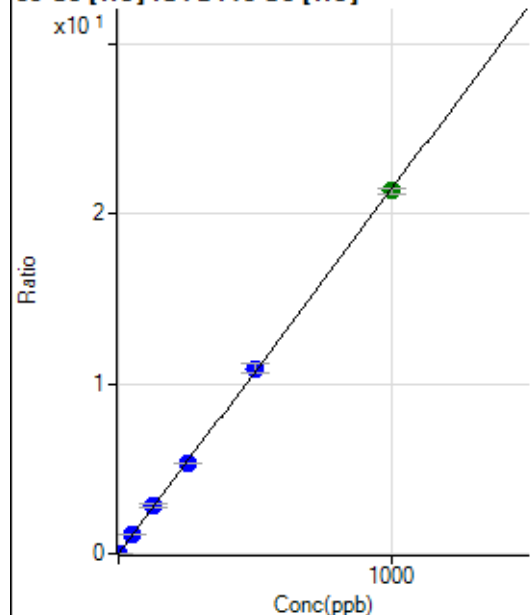
R = 0.9999

DL = 7.949

BEC = 5.836

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	58.89	0.0006	P	21.5
2	☐	1.000	0.941	2210.19	0.0208	P	3.8
3	☐	50.000	53.079	121263.19	1.1399	P	1.3
4	☐	125.000	133.737	296575.90	2.8711	P	7.2
5	☐	250.000	248.075	567219.75	5.3253	P	1.5
6	☐	500.000	508.306	1110342.21	10.9110	P	4.9
7	☐	1000.000	995.082	2280910.69	21.3593	A	1.7
8	☐			6000.21	0.0590	P	3.2

$$y = 0.0215 * x + 5.7355E-004$$

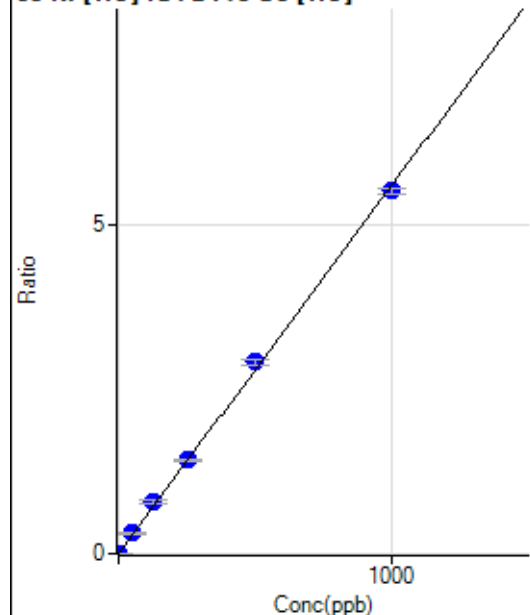
R = 0.9999

DL = 0.01723

BEC = 0.02672

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	88.89	0.0009	P	14.7
2	☐	1.000	1.049	716.69	0.0067	P	7.9
3	☐	50.000	54.991	32888.06	0.3091	P	1.2
4	☐	125.000	139.735	80959.56	0.7842	P	8.5
5	☐	250.000	255.150	152431.20	1.4313	P	2.2
6	☐	500.000	520.889	297380.95	2.9210	P	3.4
7	☐	1000.000	986.177	590465.45	5.5294	P	1.5
8	☐			2054.62	0.0202	P	7.6

$$y = 0.0056 * x + 8.5933E-004$$

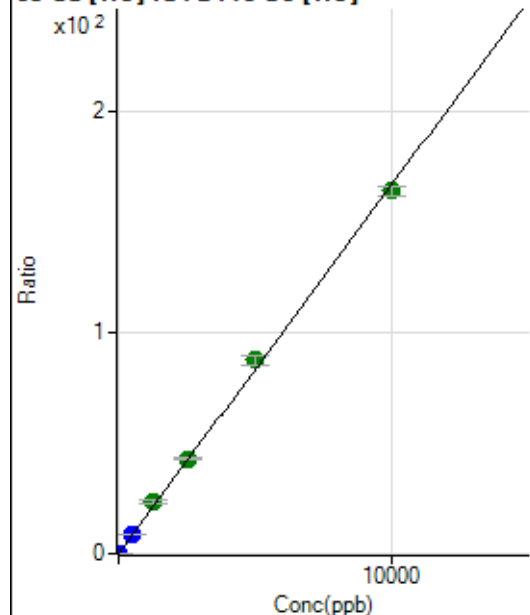
$$R = 0.9996$$

$$DL = 0.0677$$

$$BEC = 0.1533$$

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	497.79	0.0048	P	6.4
2	☐	2.000	1.922	3916.14	0.0368	P	3.5
3	☐	500.000	526.313	931830.42	8.7598	P	2.0
4	☐	1250.000	1396.850	2399356.70	23.2408	A	8.4
5	☐	2500.000	2570.402	4554780.24	42.7623	A	1.6
6	☐	5000.000	5242.949	8877758.76	87.2189	A	4.1
7	☐	10000.000	9841.253	17478678.21	163.7096	A	2.6
8	☐			12788.09	0.1259	P	0.9

$$y = 0.0166 * x + 0.0048$$

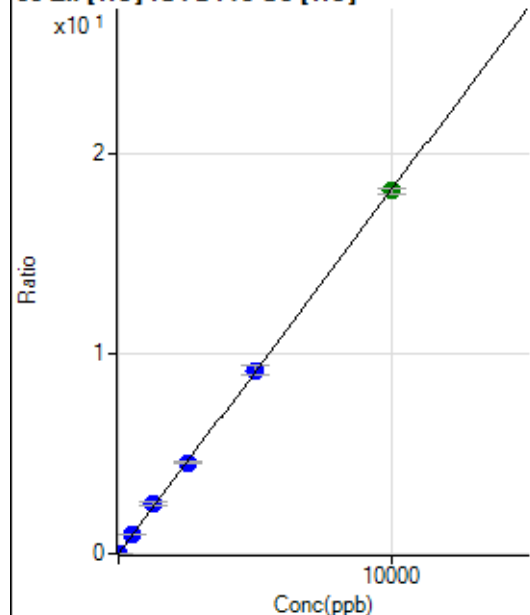
$$R = 0.9995$$

$$DL = 0.05576$$

$$BEC = 0.2915$$

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	137.78	0.0014	P	30.1
2	☐	2.000	2.388	606.69	0.0057	P	9.0
3	☐	500.000	530.000	102723.37	0.9656	P	1.6
4	☐	1250.000	1356.835	255121.55	2.4699	P	7.3
5	☐	2500.000	2492.092	483035.73	4.5354	P	1.9
6	☐	5000.000	5036.254	932508.41	9.1641	P	5.1
7	☐	10000.000	9968.996	1936725.04	18.1386	A	1.9
8	☐			7410.90	0.0729	P	0.1

$$y = 0.0018 * x + 0.0014$$

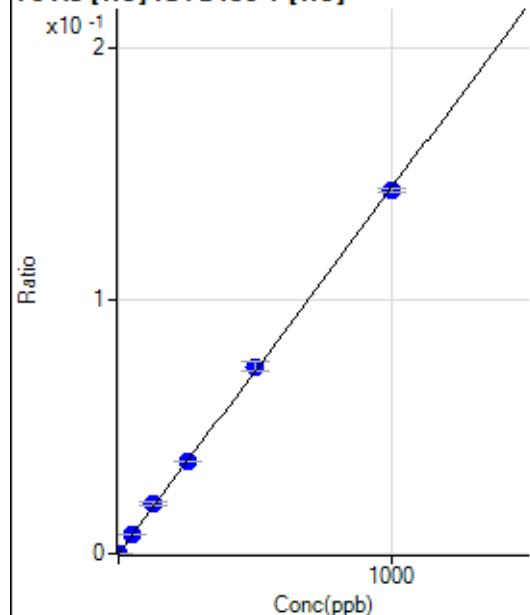
$$R = 0.9999$$

$$DL = 0.6741$$

$$BEC = 0.7458$$

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	4.67	0.0000	P	58.7
2	☐	1.000	1.038	129.35	0.0002	P	13.5
3	☐	50.000	52.829	6286.04	0.0076	P	5.1
4	☐	125.000	134.899	15573.80	0.0195	P	6.8
5	☐	250.000	252.305	29814.30	0.0365	P	1.5
6	☐	500.000	512.052	58041.24	0.0740	P	4.5
7	☐	1000.000	992.019	117413.64	0.1434	P	1.0
8	☐			90.01	0.0001	P	8.8

$$y = 1.4450E-004 * x + 5.9789E-006$$

$$R = 0.9999$$

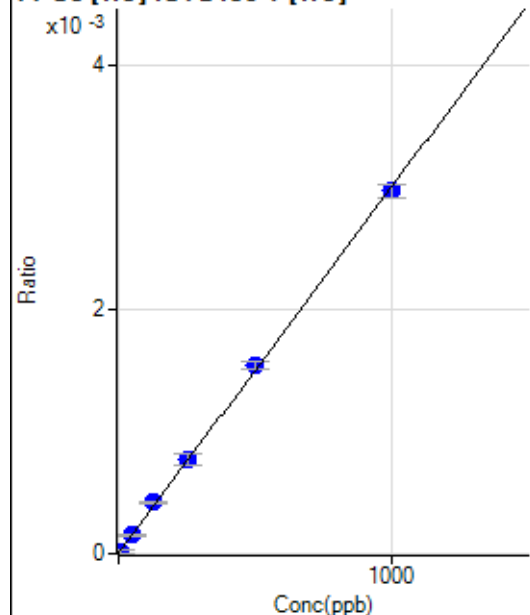
$$DL = 0.07282$$

$$BEC = 0.04138$$

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	2.22	0.0000	P	86.8
2	☐	5.000	4.428	13.33	0.0000	P	114.
3	☐	50.000	50.244	126.67	0.0002	P	12.1
4	☐	125.000	138.986	335.56	0.0004	P	5.0
5	☐	250.000	255.876	628.91	0.0008	P	12.8
6	☐	500.000	513.960	1211.17	0.0015	P	3.8
7	☐	1000.000	989.793	2432.46	0.0030	P	3.4
8	☐			1.11	0.0000	P	173.

$$y = 2.9982\text{E-}006 * x + 2.8561\text{E-}006$$

$$R = 0.9997$$

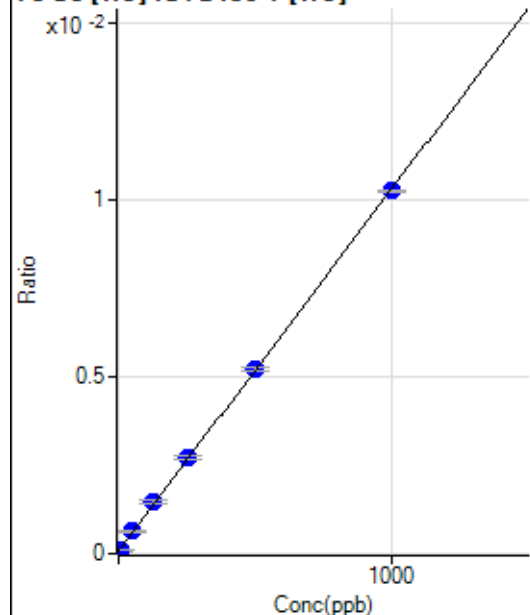
$$DL = 2.482$$

$$BEC = 0.9526$$

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	58.01	0.0001	P	10.1
2	☐	5.000	3.810	92.34	0.0001	P	11.1
3	☐	50.000	54.253	515.73	0.0006	P	4.3
4	☐	125.000	134.988	1158.83	0.0015	P	7.6
5	☐	250.000	259.175	2223.74	0.0027	P	2.7
6	☐	500.000	501.796	4080.01	0.0052	P	2.2
7	☐	1000.000	995.353	8387.35	0.0102	P	0.8
8	☐			56.68	0.0001	P	13.8

$$y = 1.0215\text{E-}005 * x + 7.2363\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.141$$

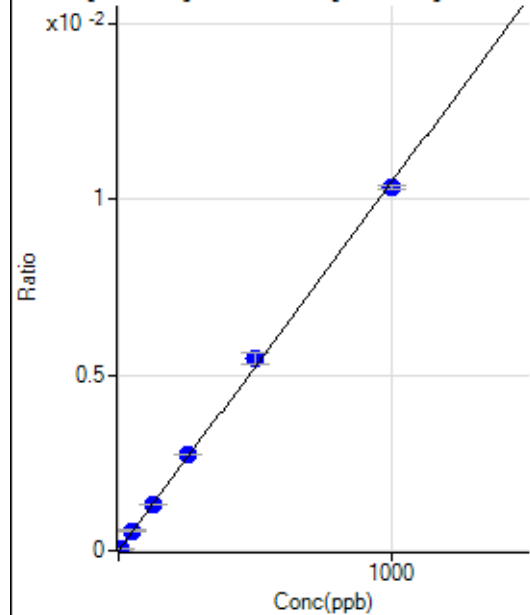
$$BEC = 7.084$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20533.04		P	3.1
2	☐			22280.93		P	1.5
3	☐			20917.26		P	2.6
4	☐			22083.62		P	3.4
5	☐			21308.45		P	5.3
6	☐			21508.79		P	2.2
7	☐			21405.09		P	2.1
8	☐			20449.54		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.10	0.0000	P	732.
2	☐	5.000	4.721	368.24	0.0000	P	6.6
3	☐	50.000	54.215	4165.04	0.0006	P	4.8
4	☐	125.000	123.945	10211.08	0.0013	P	1.9
5	☐	250.000	260.068	20294.93	0.0027	P	0.1
6	☐	500.000	523.780	39737.29	0.0055	P	6.1
7	☐	1000.000	985.515	79347.12	0.0103	P	0.9
8	☐			94.44	0.0000	P	92.5

$$y = 1.0469E-005 * x + 3.5877E-007$$

$$R = 0.9995$$

$$DL = 0.7533$$

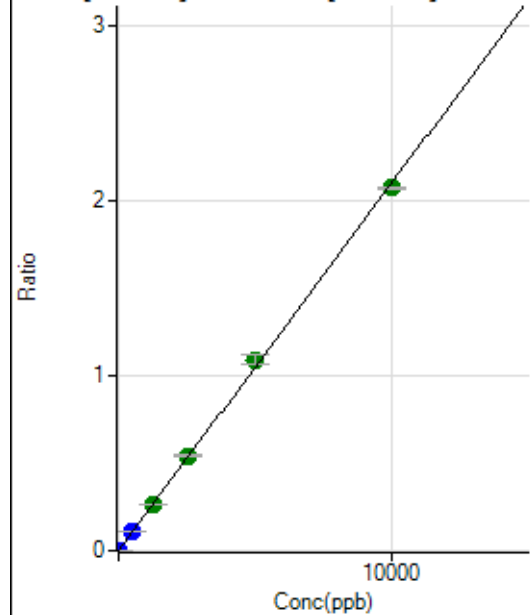
$$BEC = 0.03427$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			652.25		P	8.4
2	☐			696.69		P	8.8
3	☐			671.13		P	8.1
4	☐			687.80		P	5.4
5	☐			711.14		P	3.1
6	☐			675.58		P	6.4
7	☐			675.58		P	7.1
8	☐			737.81		P	8.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1130.63	0.0001	P	6.5
2	☐	1.000	0.938	2553.07	0.0003	P	7.6
3	☐	500.000	537.682	828297.54	0.1129	P	1.4
4	☐	1250.000	1266.507	2090921.45	0.2658	A	1.5
5	☐	2500.000	2579.208	4032770.71	0.5411	A	0.9
6	☐	5000.000	5197.933	7902225.96	1.0903	A	5.4
7	☐	10000.000	9877.284	15931680.56	2.0716	A	0.6
8	☐			18293.02	0.0025	P	4.8

$$y = 2.0972E-004 * x + 1.4870E-004$$

$$R = 0.9997$$

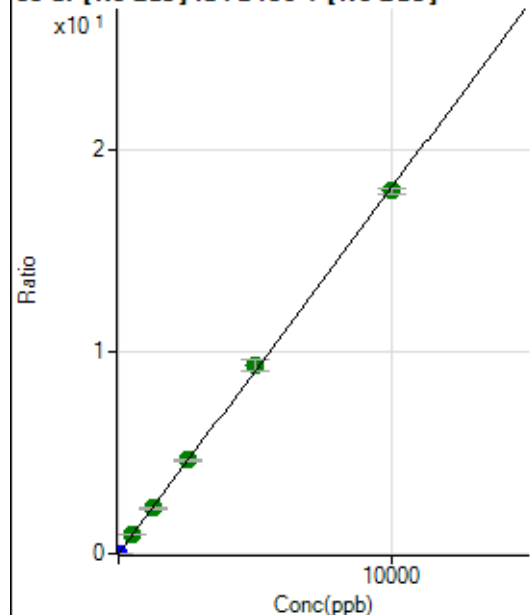
$$DL = 0.1381$$

$$BEC = 0.709$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	250.01	0.0000	P	12.3
2	☐	1.000	0.950	12964.67	0.0018	P	3.2
3	☐	500.000	531.678	7064551.37	0.9632	A	2.8
4	☐	1250.000	1235.186	17601386.16	2.2377	A	3.2
5	☐	2500.000	2553.241	34475598.34	4.6255	A	0.5
6	☐	5000.000	5140.753	67496016.09	9.3131	A	5.8
7	☐	10000.000	9916.581	138158511.4	17.9651	A	1.9
8	☐			151494.97	0.0210	P	5.5

$$y = 0.0018 * x + 3.2847E-005$$

$$R = 0.9998$$

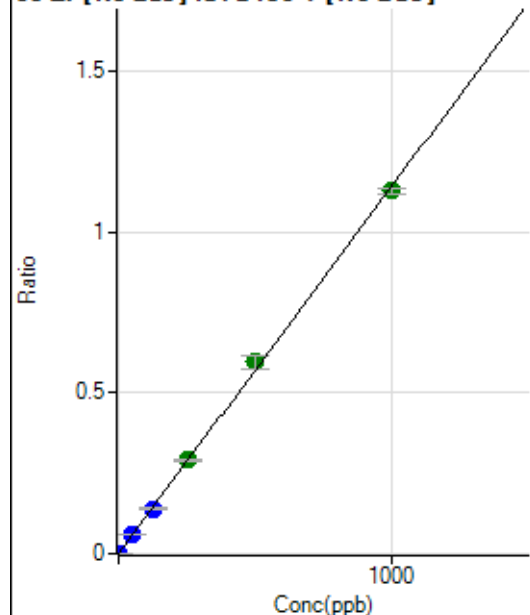
$$DL = 0.006684$$

$$BEC = 0.01813$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	422.24	0.0001	P	4.2
2	☐	1.000	0.880	7846.86	0.0011	P	4.3
3	☐	50.000	51.842	434894.75	0.0593	P	2.1
4	☐	125.000	121.776	1095011.49	0.1392	P	3.0
5	☐	250.000	255.293	2173959.53	0.2918	A	2.6
6	☐	500.000	521.353	4317896.41	0.5958	A	6.2
7	☐	1000.000	988.311	8685723.20	1.1294	A	1.9
8	☐			10454.22	0.0014	P	1.4

$$y = 0.0011 * x + 5.5657E-005$$

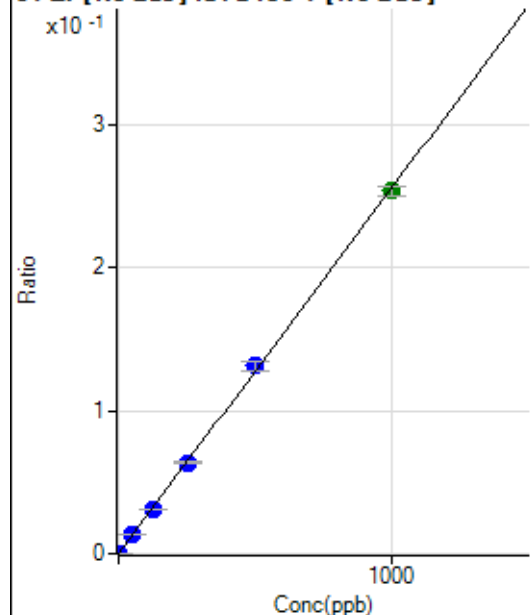
$$R = 0.9996$$

$$DL = 0.006105$$

$$BEC = 0.04871$$

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	94.45	0.0000	P	12.0
2	☐	1.000	0.898	1789.06	0.0002	P	12.5
3	☐	50.000	51.361	96436.62	0.0131	P	0.8
4	☐	125.000	120.480	242489.15	0.0308	P	2.4
5	☐	250.000	248.994	474558.91	0.0637	P	2.3
6	☐	500.000	515.081	954953.17	0.1317	P	5.2
7	☐	1000.000	993.208	1953374.61	0.2540	A	2.5
8	☐			2319.69	0.0003	P	9.5

$$y = 2.5574\text{E-}004 * x + 1.2430\text{E-}005$$

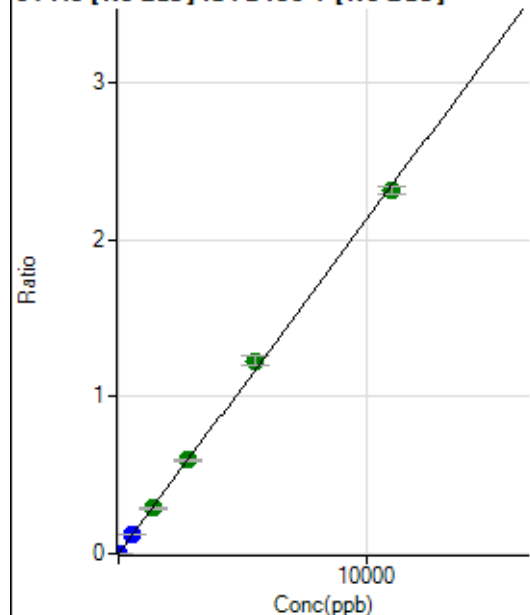
$$R = 0.9998$$

$$DL = 0.01748$$

$$BEC = 0.0486$$

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	202.78	0.0000	P	31.9
2	☐	5.000	6.124	9839.86	0.0013	P	3.6
3	☐	550.000	585.853	915451.40	0.1248	P	0.8
4	☐	1375.000	1365.285	2287857.54	0.2908	A	2.4
5	☐	2750.000	2798.074	4441592.20	0.5960	A	0.7
6	☐	5500.000	5772.149	8912682.06	1.2294	A	4.5
7	☐	11000.000	10851.328	17771832.86	2.3112	A	2.2
8	☐			10876.87	0.0015	P	14.2

$$y = 2.1299\text{E-}004 * x + 2.6886\text{E-}005$$

$$R = 0.9995$$

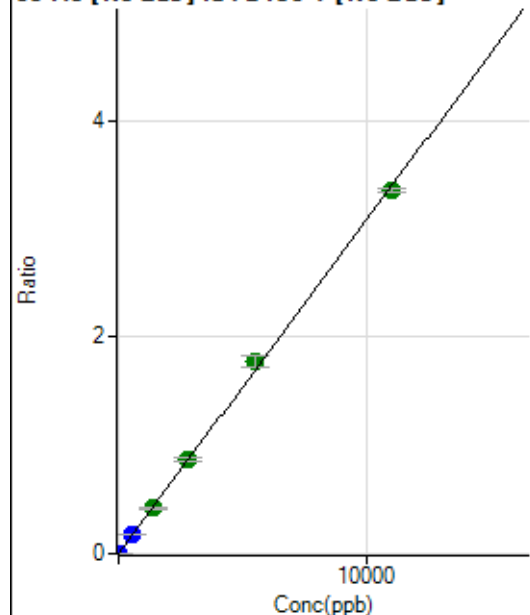
$$DL = 0.1206$$

$$BEC = 0.1262$$

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	83.34	0.0000	P	30.6
2	☐	5.000	4.871	11185.30	0.0015	P	2.1
3	☐	550.000	583.756	1320049.39	0.1800	P	2.2
4	☐	1375.000	1363.512	3307313.70	0.4204	A	2.6
5	☐	2750.000	2818.036	6473638.17	0.8688	A	2.3
6	☐	5500.000	5741.638	12826656.27	1.7702	A	5.7
7	☐	11000.000	10861.920	25753337.73	3.3488	A	1.2
8	☐			13363.80	0.0018	P	11.0

$$y = 3.0831E-004 * x + 1.1006E-005$$

$$R = 0.9996$$

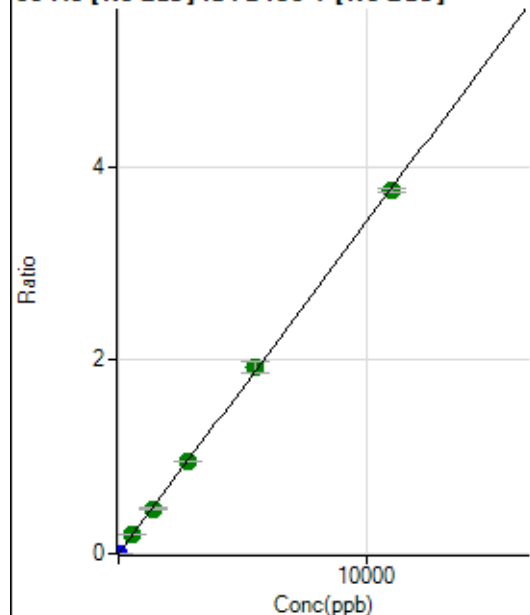
$$DL = 0.03273$$

$$BEC = 0.0357$$

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	241.68	0.0000	P	12.5
2	☐	5.000	4.755	12308.56	0.0017	P	2.0
3	☐	550.000	584.362	1472401.99	0.2007	A	1.7
4	☐	1375.000	1357.182	3667201.73	0.4662	A	3.7
5	☐	2750.000	2795.354	7156449.12	0.9602	A	0.6
6	☐	5500.000	5632.000	14015018.72	1.9345	A	6.3
7	☐	11000.000	10923.171	28856839.19	3.7519	A	1.0
8	☐			20744.10	0.0029	P	9.8

$$y = 3.4348E-004 * x + 3.1844E-005$$

$$R = 0.9999$$

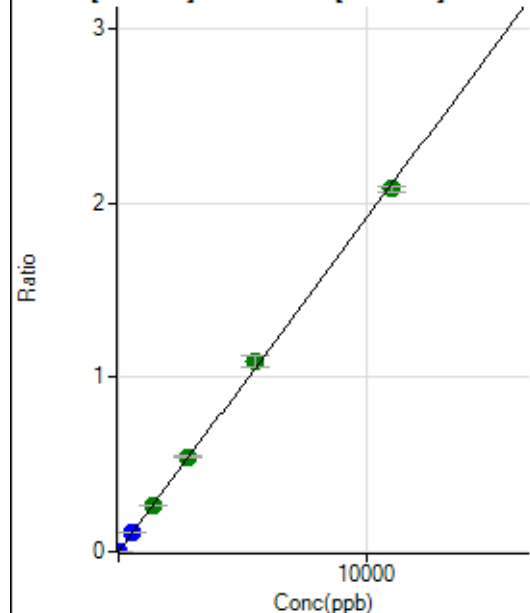
$$DL = 0.03477$$

$$BEC = 0.09271$$

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	41.67	0.0000	P	42.6
2	☐	5.000	4.690	6682.38	0.0009	P	2.8
3	☐	550.000	585.390	822459.32	0.1121	P	0.9
4	☐	1375.000	1374.739	2071344.19	0.2633	A	2.8
5	☐	2750.000	2843.079	4058096.79	0.5446	A	1.1
6	☐	5500.000	5712.922	7930137.33	1.0942	A	5.5
7	☐	11000.000	10868.532	16009320.15	2.0817	A	1.5
8	☐			7685.71	0.0011	P	12.5

$$y = 1.9153\text{E-}004 * x + 5.5234\text{E-}006$$

$$R = 0.9997$$

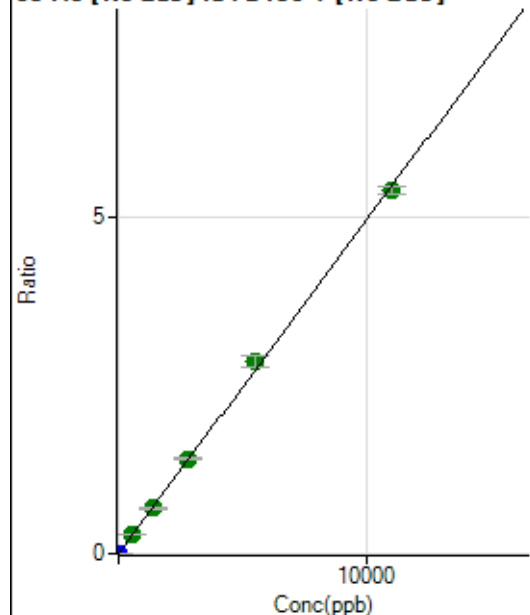
$$DL = 0.03685$$

$$BEC = 0.02884$$

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	138.89	0.0000	P	23.4
2	☐	5.000	4.869	18006.69	0.0024	P	5.1
3	☐	550.000	590.300	2150363.96	0.2932	A	1.1
4	☐	1375.000	1357.296	5302951.42	0.6741	A	1.8
5	☐	2750.000	2823.133	10446927.31	1.4020	A	2.0
6	☐	5500.000	5732.375	20624641.26	2.8467	A	6.1
7	☐	11000.000	10865.727	41492635.30	5.3960	A	2.1
8	☐			19436.75	0.0027	P	19.8

$$y = 4.9660\text{E-}004 * x + 1.8355\text{E-}005$$

$$R = 0.9996$$

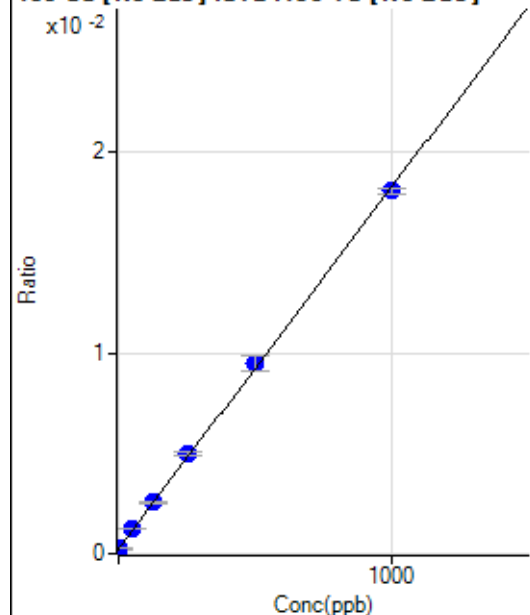
$$DL = 0.02595$$

$$BEC = 0.03696$$

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	1486.23	0.0002	P	10.2
2	☐	1.000	4.210	1905.74	0.0003	P	2.9
3	☐	50.000	55.997	7599.59	0.0012	P	5.9
4	☐	125.000	128.471	16638.31	0.0026	P	3.4
5	☐	250.000	261.761	30988.33	0.0050	P	3.4
6	☐	500.000	512.252	58887.61	0.0095	P	8.0
7	☐	1000.000	990.197	116755.34	0.0181	P	1.2
8	☐			1733.49	0.0003	P	9.0

$$y = 1.8025\text{E-}005 * x + 2.3510\text{E-}004$$

$$R = 0.9998$$

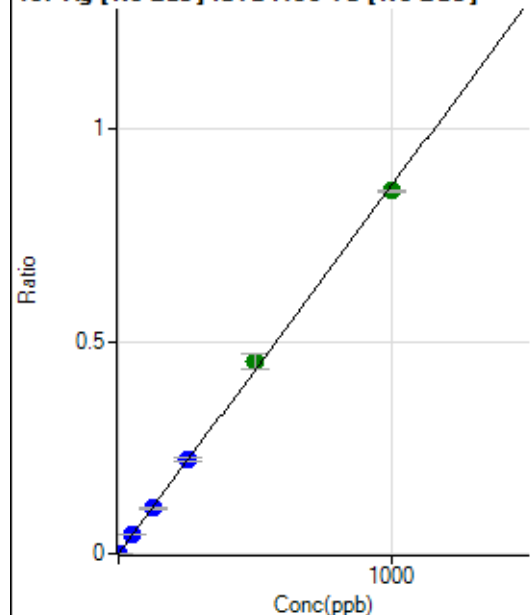
$$DL = 3.976$$

$$BEC = 13.04$$

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	63.89	0.0000	P	17.2
2	☐	1.000	0.922	4951.03	0.0008	P	5.5
3	☐	50.000	53.716	284321.19	0.0465	P	2.8
4	☐	125.000	124.955	705675.38	0.1083	P	4.6
5	☐	250.000	255.923	1387250.59	0.2217	P	2.5
6	☐	500.000	524.113	2825092.49	0.4541	A	7.7
7	☐	1000.000	986.283	5517187.45	0.8545	A	0.8
8	☐			2497.52	0.0004	P	19.6

$$y = 8.6636\text{E-}004 * x + 1.0091\text{E-}005$$

$$R = 0.9995$$

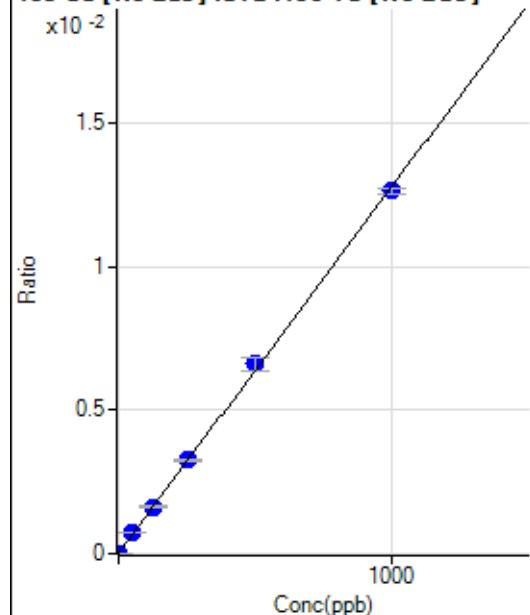
$$DL = 0.006008$$

$$BEC = 0.01165$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	52.4
2	☐	1.000	0.883	131.95	0.0000	P	16.8
3	☐	50.000	56.177	4439.65	0.0007	P	2.9
4	☐	125.000	127.259	10641.73	0.0016	P	5.0
5	☐	250.000	254.907	20399.97	0.0033	P	2.1
6	☐	500.000	516.908	41070.79	0.0066	P	7.1
7	☐	1000.000	989.728	81543.90	0.0126	P	1.8
8	☐			130.56	0.0000	P	6.1

$$y = 1.2751\text{E-}005 * x + 1.0235\text{E-}005$$

$$R = 0.9998$$

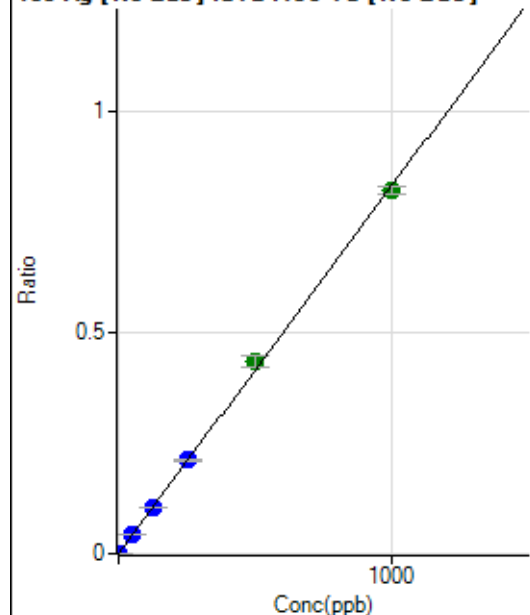
$$DL = 1.262$$

$$BEC = 0.8027$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	14.4
2	☐	1.000	0.943	4828.75	0.0008	P	1.6
3	☐	50.000	53.612	271676.72	0.0445	P	1.5
4	☐	125.000	125.952	681073.89	0.1045	P	3.3
5	☐	250.000	254.967	1323008.70	0.2114	P	2.8
6	☐	500.000	522.691	2698112.52	0.4335	A	6.0
7	☐	1000.000	987.113	5285070.52	0.8186	A	2.0
8	☐			2469.75	0.0004	P	11.0

$$y = 8.2930\text{E-}004 * x + 6.1772\text{E-}006$$

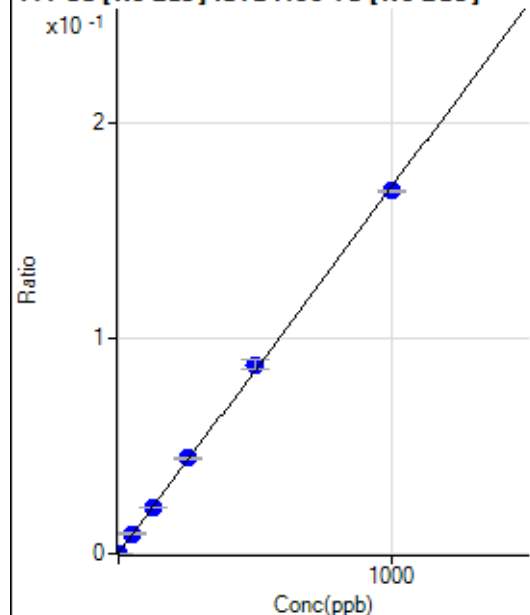
$$R = 0.9996$$

$$DL = 0.003208$$

$$BEC = 0.007449$$

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	1033.14	0.0002	P	12.3
2	☐	1.000	1.281	2334.76	0.0004	P	3.8
3	☐	50.000	53.712	56772.71	0.0093	P	2.0
4	☐	125.000	125.030	139608.34	0.0214	P	4.0
5	☐	250.000	258.972	276455.47	0.0442	P	1.8
6	☐	500.000	515.820	546930.15	0.0878	P	5.7
7	☐	1000.000	989.657	1087230.30	0.1684	P	0.8
8	☐			1816.53	0.0003	P	9.2

$$y = 1.6998\text{E-}004 * x + 1.6334\text{E-}004$$

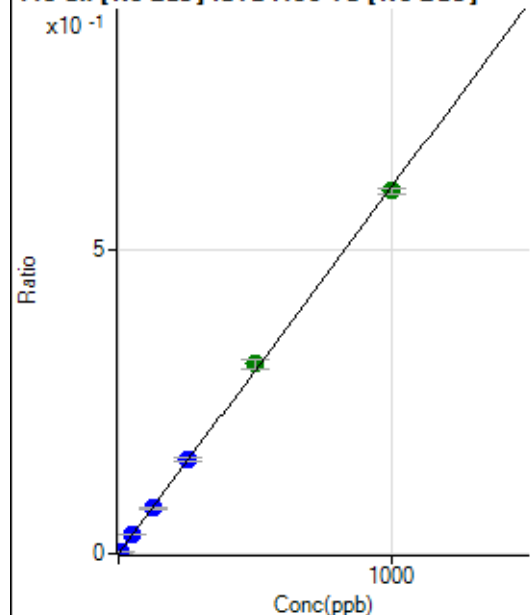
$$R = 0.9998$$

$$DL = 0.3549$$

$$BEC = 0.9609$$

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	738.93	0.0001	P	6.8
2	☐	5.000	4.865	18646.54	0.0030	P	1.4
3	☐	50.000	53.043	195538.08	0.0320	P	3.8
4	☐	125.000	123.139	483419.10	0.0742	P	4.7
5	☐	250.000	256.822	967036.71	0.1546	P	2.2
6	☐	500.000	517.628	1939109.52	0.3114	A	5.0
7	☐	1000.000	989.562	3842989.76	0.5952	A	1.3
8	☐			6020.96	0.0010	P	6.6

$$y = 6.0137\text{E-}004 * x + 1.1708\text{E-}004$$

$$R = 0.9997$$

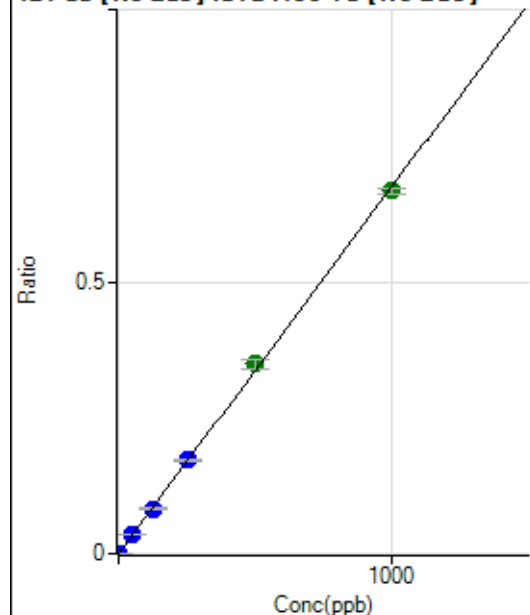
$$DL = 0.03996$$

$$BEC = 0.1947$$

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	61.11	0.0000	P	13.0
2	☐	2.000	1.882	7833.01	0.0013	P	2.6
3	☐	50.000	52.848	217560.97	0.0356	P	1.5
4	☐	125.000	122.721	538952.01	0.0827	P	4.5
5	☐	250.000	255.843	1078584.44	0.1724	P	1.4
6	☐	500.000	517.782	2172238.50	0.3488	A	4.9
7	☐	1000.000	989.791	4305354.13	0.6668	A	1.4
8	☐			5237.25	0.0008	P	4.1

$$y = 6.7369\text{E-}004 * x + 9.6605\text{E-}006$$

$$R = 0.9997$$

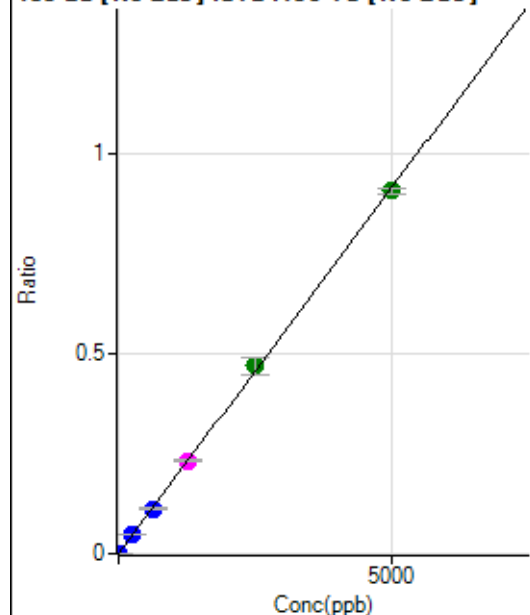
$$DL = 0.005581$$

$$BEC = 0.01434$$

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	16.67	0.0000	P	48.9
2	☐	10.000	9.227	10343.08	0.0017	P	4.3
3	☐	250.000	264.591	295380.53	0.0484	P	1.6
4	☐	625.000	617.999	736102.90	0.1129	P	4.4
5	☐	1250.000	1271.153	1453269.49	0.2323	M	2.8
6	☐	2500.000	2565.659	2914984.46	0.4688	A	8.7
7	☐	5000.000	4962.030	5854215.54	0.9067	A	1.2
8	☐			4737.09	0.0008	P	7.4

$$y = 1.8273\text{E-}004 * x + 2.6399\text{E-}006$$

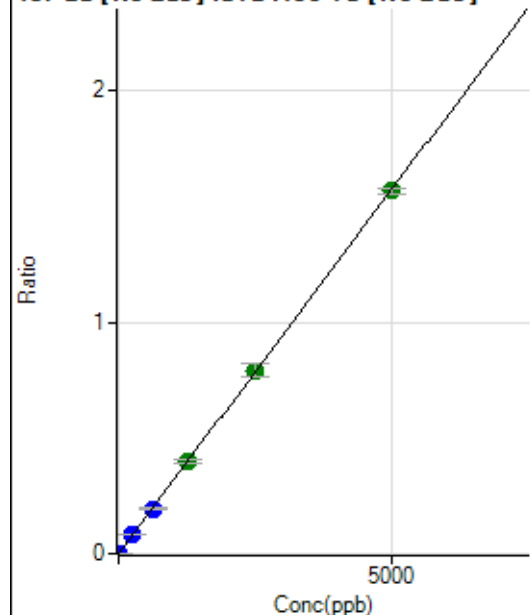
$$R = 0.9999$$

$$DL = 0.0212$$

$$BEC = 0.01445$$

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	55.56	0.0000	P	5.7
2	☐	10.000	9.274	17931.84	0.0029	P	3.7
3	☐	250.000	263.928	507141.03	0.0830	P	1.7
4	☐	625.000	620.645	1272585.24	0.1952	P	4.0
5	☐	1250.000	1269.963	2498618.63	0.3994	A	3.8
6	☐	2500.000	2521.027	4932622.03	0.7929	A	7.9
7	☐	5000.000	4984.345	10121979.13	1.5676	A	1.3
8	☐			8169.38	0.0013	P	12.4

$$y = 3.1451E-004 * x + 8.7956E-006$$

$$R = 1.0000$$

$$DL = 0.004815$$

$$BEC = 0.02797$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			6.67		P	173.
3	☐			15.56		P	65.5
4	☐			60.00		P	44.5
5	☐			131.12		P	28.0
6	☐			213.34		P	3.1
7	☐			333.35		P	14.4
8	☐			40.00		P	72.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			0.00		P	
3	☐			1.11		P	173.
4	☐			4.44		P	43.4
5	☐			8.89		P	21.6
6	☐			23.34		P	24.7
7	☐			38.89		P	26.2
8	☐			18.89		P	27.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.66		P	86.6
2	☐			13.89		P	91.6
3	☐			41.67		P	0.0
4	☐			58.33		P	62.3
5	☐			77.78		P	50.6
6	☐			125.00		P	34.6
7	☐			261.12		P	31.0
8	☐			819.49		P	11.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			5.55		P	69.3
4	☐			16.66		P	34.6
5	☐			41.11		P	12.4
6	☐			54.44		P	31.4
7	☐			123.34		P	12.4
8	☐			408.90		P	6.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.
2	☐			22.22		P	94.4
3	☐			52.78		P	77.9
4	☐			72.23		P	59.2
5	☐			113.89		P	33.8
6	☐			125.00		P	50.3
7	☐			233.34		P	15.6
8	☐			738.93		P	6.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.67		P	14.3
2	☐			65.56		P	7.8
3	☐			66.67		P	22.9
4	☐			64.45		P	50.2
5	☐			85.56		P	13.7
6	☐			77.78		P	5.0
7	☐			132.22		P	2.9
8	☐			436.68		P	15.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	66.1
2	☐			41.67		P	34.6
3	☐			27.78		P	96.4
4	☐			58.33		P	24.7
5	☐			63.89		P	7.5
6	☐			88.89		P	10.8
7	☐			125.00		P	20.0
8	☐			133.34		P	6.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	20.0
2	☐			8.89		P	43.3
3	☐			15.56		P	49.5
4	☐			18.89		P	20.4
5	☐			42.22		P	31.9
6	☐			34.45		P	31.1
7	☐			56.67		P	21.2
8	☐			42.22		P	24.1

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	69.3
2	☐			27.78		P	34.6
3	☐			36.11		P	58.1
4	☐			22.22		P	114.
5	☐			33.33		P	50.0
6	☐			55.55		P	8.7
7	☐			119.45		P	34.4
8	☐			91.67		P	9.1

172 Yb [He] No available calibration points

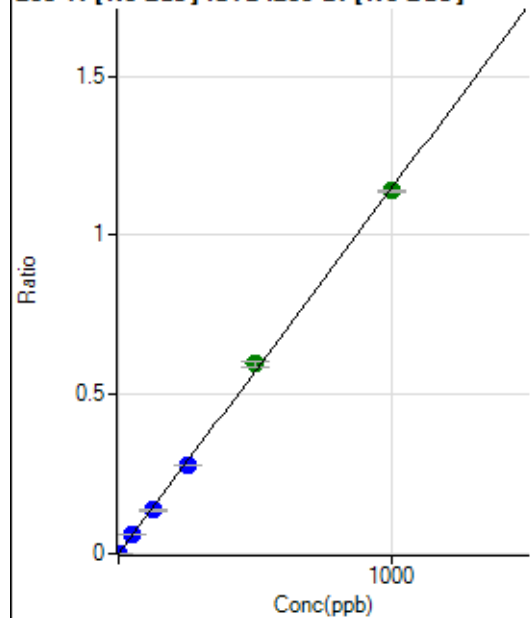
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9.26		P	34.6
2	☐			9.26		P	124.
3	☐			12.96		P	24.8
4	☐			12.96		P	65.4
5	☐			14.82		P	142.
6	☐			20.37		P	31.5
7	☐			48.15		P	40.5
8	☐			48.15		P	29.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			533.36		P	21.1
2	☐			622.26		P	18.6
3	☐			1522.36		P	5.8
4	☐			2944.85		P	7.3
5	☐			5034.43		P	3.9
6	☐			9523.16		P	0.9
7	☐			18421.63		P	2.4
8	☐			747.27		P	20.7

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3609.83		P	6.6
2	☐			3891.40		P	5.6
3	☐			3952.52		P	1.1
4	☐			4725.01		P	10.1
5	☐			5501.26		P	1.3
6	☐			7583.81		P	3.7
7	☐			11907.42		P	0.6
8	☐			3676.51		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	691.71	0.0002	P	15.8
2	☐	1.000	0.826	3956.28	0.0011	P	10.1
3	☐	50.000	51.510	197362.82	0.0593	P	4.0
4	☐	125.000	119.201	496145.13	0.1369	P	5.4
5	☐	250.000	241.680	966871.58	0.2773	P	0.4
6	☐	500.000	519.000	2031244.71	0.5953	A	2.6
7	☐	1000.000	993.229	4080170.49	1.1391	A	0.2
8	☐			2550.34	0.0008	P	17.5

$$y = 0.0011 * x + 1.9851E-004$$

$$R = 0.9997$$

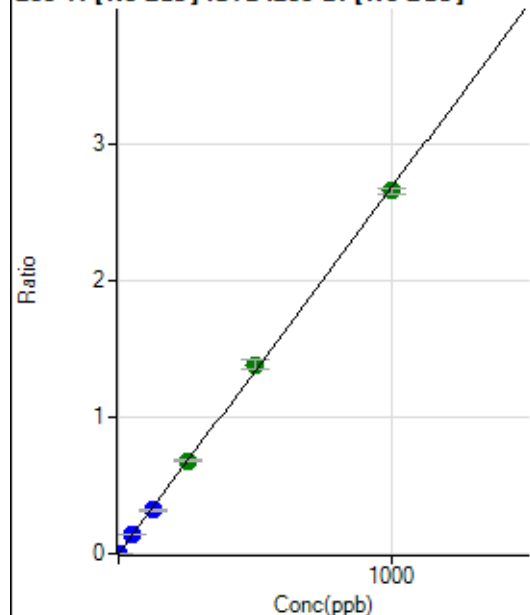
$$DL = 0.08198$$

$$BEC = 0.1731$$

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	1802.96	0.0005	P	5.2
2	☐	1.000	0.891	10009.70	0.0029	P	4.4
3	☐	50.000	52.600	470220.23	0.1412	P	3.0
4	☐	125.000	118.878	1153739.85	0.3184	P	6.4
5	☐	250.000	254.246	2371787.31	0.6804	A	1.5
6	☐	500.000	516.379	4711835.87	1.3813	A	5.1
7	☐	1000.000	991.384	9497830.42	2.6515	A	1.4
8	☐			6788.13	0.0021	P	13.1

$$y = 0.0027 * x + 5.1715E-004$$

$$R = 0.9998$$

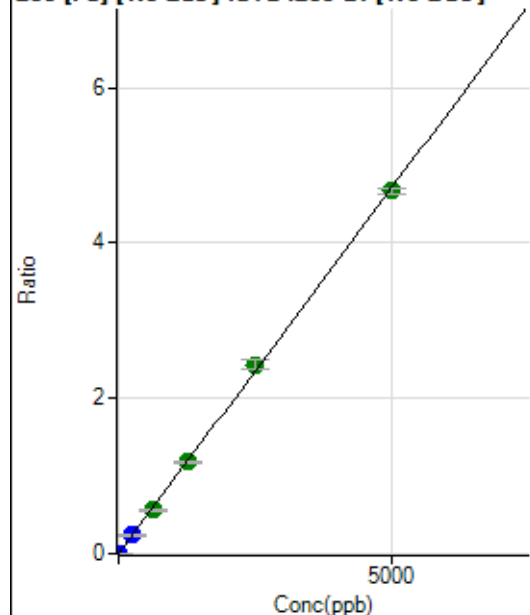
$$DL = 0.03019$$

$$BEC = 0.1934$$

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	437.05	0.0001	P	12.0
2	☐	1.000	0.849	3191.19	0.0009	P	4.5
3	☐	250.000	251.620	789183.72	0.2370	P	3.5
4	☐	625.000	596.953	2037489.77	0.5620	A	4.6
5	☐	1250.000	1251.203	4106385.07	1.1778	A	1.1
6	☐	2500.000	2579.108	8279048.10	2.4277	A	5.1
7	☐	5000.000	4963.570	16734177.34	4.6721	A	1.6
8	☐			14812.37	0.0046	P	4.1

$$y = 9.4126E-004 * x + 1.2522E-004$$

$$R = 0.9998$$

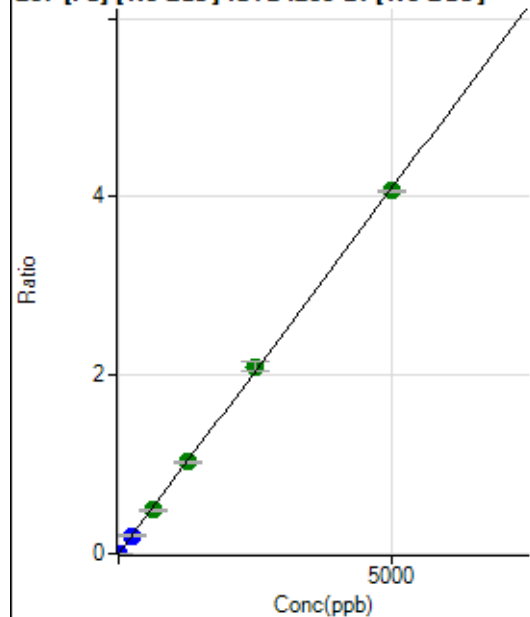
$$DL = 0.04793$$

$$BEC = 0.133$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	446.31	0.0001	P	21.8
2	☐	1.000	0.847	2835.55	0.0008	P	4.4
3	☐	250.000	249.279	679675.54	0.2041	P	3.7
4	☐	625.000	596.885	1771672.83	0.4885	A	3.4
5	☐	1250.000	1261.434	3599059.89	1.0322	A	1.9
6	☐	2500.000	2565.510	7159078.98	2.0993	A	4.8
7	☐	5000.000	4967.937	14560150.79	4.0650	A	0.5
8	☐			13192.13	0.0041	P	7.4

$$y = 8.1821\text{E-}004 * x + 1.2780\text{E-}004$$

$$R = 0.9998$$

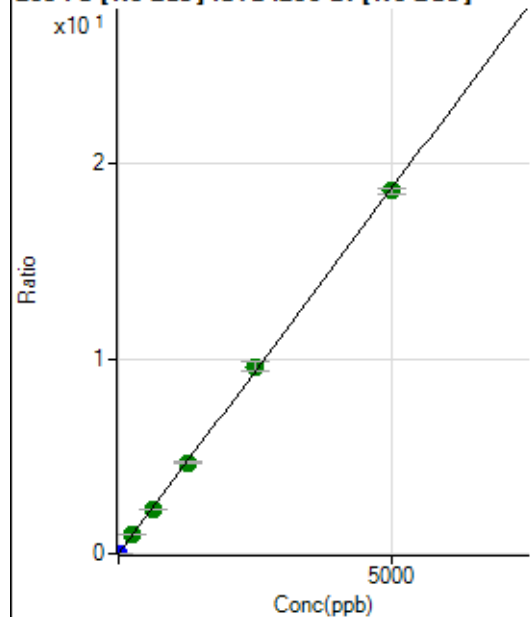
$$DL = 0.1021$$

$$BEC = 0.1562$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1848.23	0.0005	P	5.5
2	☐	1.000	0.861	12963.91	0.0038	P	3.1
3	☐	250.000	259.063	3231020.62	0.9702	A	3.7
4	☐	625.000	603.577	8194847.13	2.2597	A	3.5
5	☐	1250.000	1249.646	16309056.03	4.6778	A	1.1
6	☐	2500.000	2567.249	32772085.46	9.6095	A	4.5
7	☐	5000.000	4968.689	66614181.01	18.5979	A	1.3
8	☐			59970.52	0.0186	P	7.3

$$y = 0.0037 * x + 5.2979\text{E-}004$$

$$R = 0.9999$$

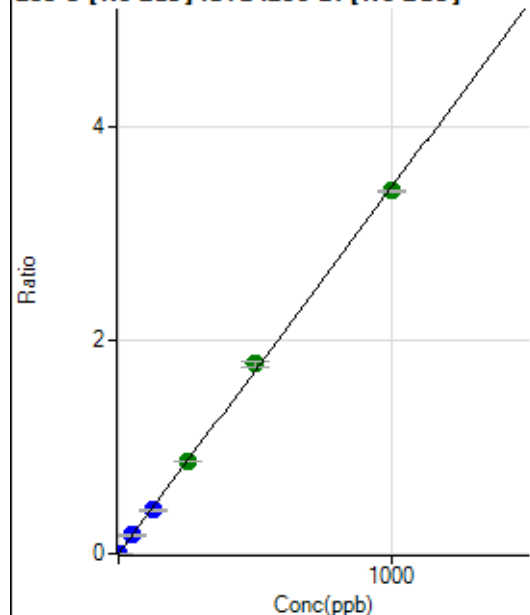
$$DL = 0.02318$$

$$BEC = 0.1415$$

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	22.22	0.0000	P	57.1
2	☐	1.000	0.889	10557.46	0.0031	P	0.5
3	☐	50.000	50.696	579851.60	0.1741	P	3.3
4	☐	125.000	118.464	1475558.44	0.4068	P	2.9
5	☐	250.000	252.800	3026581.49	0.8681	A	0.9
6	☐	500.000	519.370	6085233.17	1.7835	A	3.0
7	☐	1000.000	990.397	12182033.61	3.4010	A	0.7
8	☐			5167.93	0.0016	P	18.6

$$y = 0.0034 * x + 6.3539E-006$$

$$R = 0.9997$$

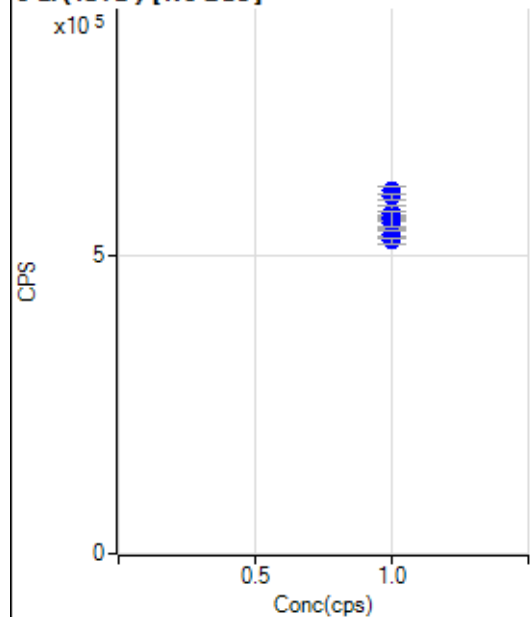
$$DL = 0.003171$$

$$BEC = 0.00185$$

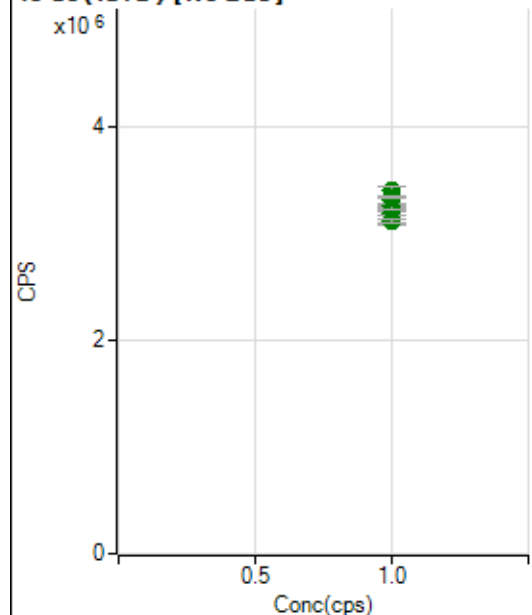
Weight: <None>

Min Conc: 0

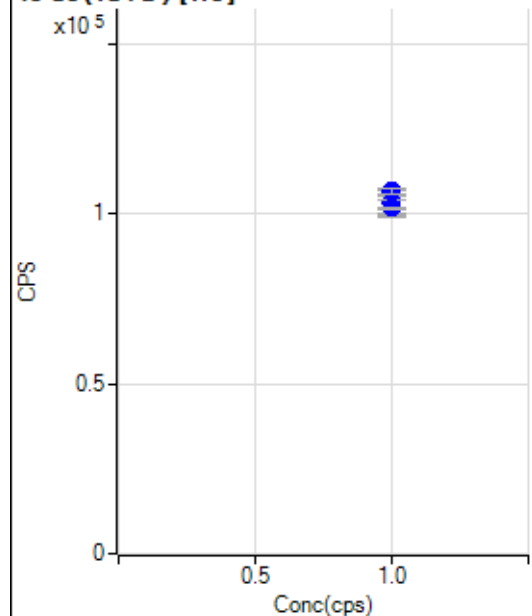
6 Li (ISTD) [No Gas]



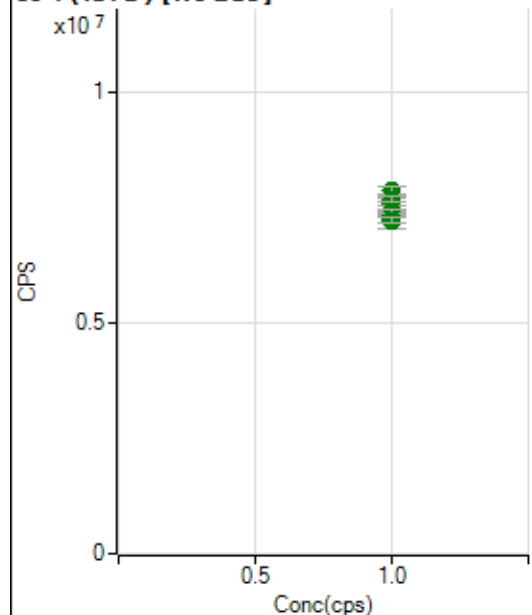
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		554753.31		P	3.6
2	☐	1.000		537286.09		P	1.4
3	☐	1.000		525298.07		P	2.2
4	☐	1.000		571665.92		P	4.3
5	☐	1.000		564560.45		P	1.2
6	☐	1.000		562431.12		P	4.7
7	☐	1.000		609030.32		P	2.0
8	☐	1.000		599447.85		P	1.6

45 Sc (ISTD) [No Gas]

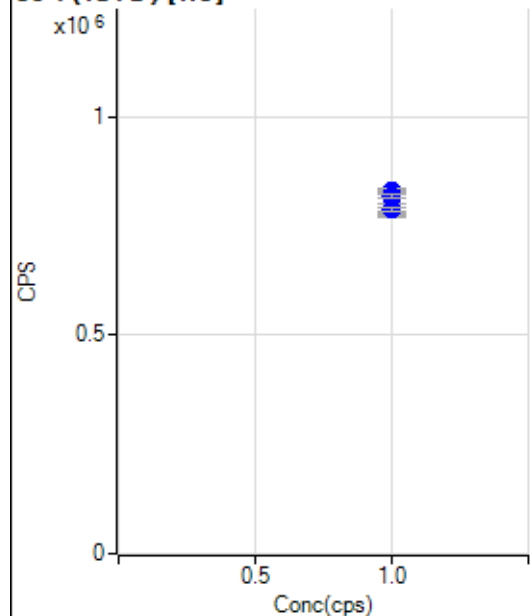
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3313880.58		A	2.9
2	☐	1.000		3231740.09		A	1.0
3	☐	1.000		3195811.27		A	2.9
4	☐	1.000		3406837.21		A	2.7
5	☐	1.000		3260108.87		A	1.9
6	☐	1.000		3129955.65		A	3.1
7	☐	1.000		3346637.62		A	0.6
8	☐	1.000		3122330.16		A	0.8

45 Sc (ISTD) [He]

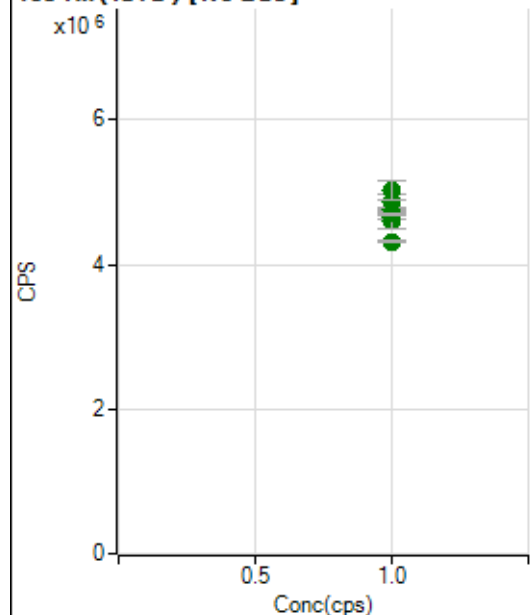
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		102963.41		P	7.3
2	☐	1.000		106386.17		P	0.9
3	☐	1.000		106390.81		P	1.1
4	☐	1.000		103628.08		P	6.7
5	☐	1.000		106528.32		P	1.9
6	☐	1.000		101901.87		P	4.3
7	☐	1.000		106793.18		P	1.6
8	☐	1.000		101611.10		P	0.7

89 Y (ISTD) [No Gas]

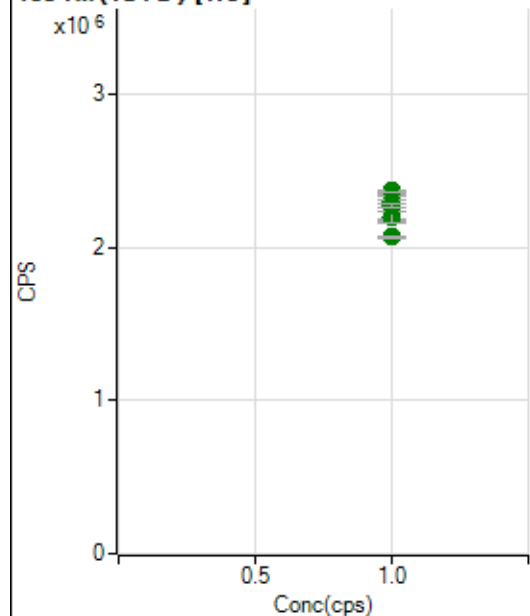
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7593258.29		A	3.2
2	☐	1.000		7393290.10		A	1.3
3	☐	1.000		7335429.41		A	1.2
4	☐	1.000		7869179.05		A	2.1
5	☐	1.000		7453266.83		A	2.0
6	☐	1.000		7262059.47		A	6.0
7	☐	1.000		7690833.01		A	1.6
8	☐	1.000		7228507.32		A	1.7

89 Y (ISTD) [He]

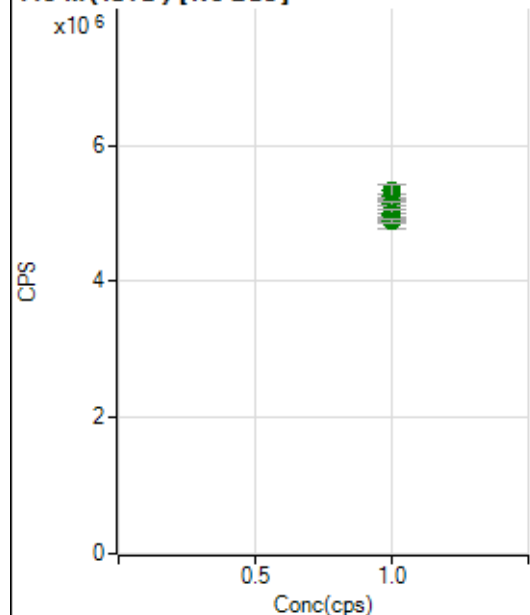
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		798436.39		P	6.0
2	☐	1.000		829506.35		P	0.5
3	☐	1.000		823537.14		P	2.6
4	☐	1.000		800891.73		P	6.0
5	☐	1.000		817746.49		P	1.5
6	☐	1.000		785257.14		P	3.9
7	☐	1.000		819087.33		P	1.1
8	☐	1.000		787202.57		P	1.0

103 Rh (ISTD) [No Gas]

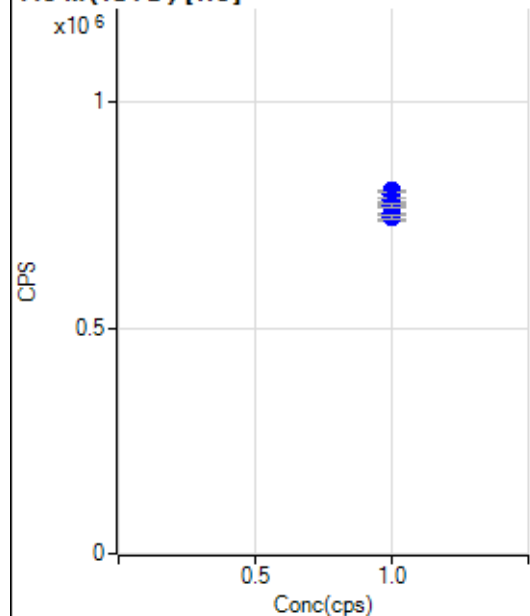
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4864618.29		A	4.3
2	☐	1.000		4773608.18		A	1.1
3	☐	1.000		4657780.27		A	1.1
4	☐	1.000		5018420.29		A	5.2
5	☐	1.000		4752749.84		A	1.6
6	☐	1.000		4609314.16		A	5.0
7	☐	1.000		4697933.74		A	0.9
8	☐	1.000		4313605.65		A	0.8

103 Rh (ISTD) [He]

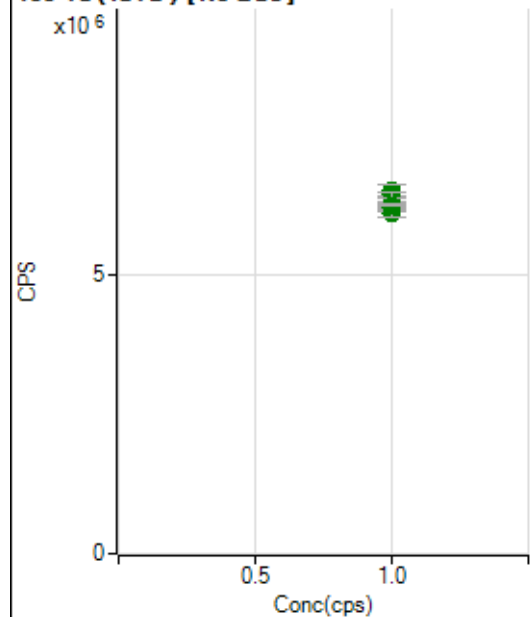
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2258449.69		A	8.0
2	☐	1.000		2371250.66		A	0.6
3	☐	1.000		2338771.48		A	1.8
4	☐	1.000		2263036.32		A	6.6
5	☐	1.000		2298800.90		A	1.2
6	☐	1.000		2199462.40		A	3.6
7	☐	1.000		2279188.21		A	1.0
8	☐	1.000		2070209.50		A	0.9

115 In (ISTD) [No Gas]

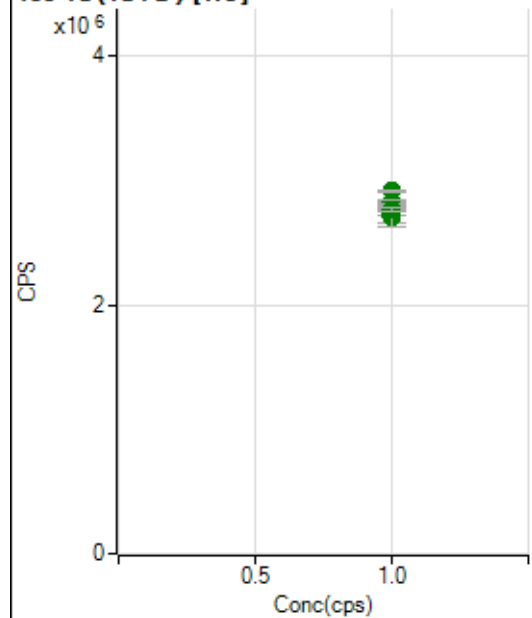
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5243388.06		A	1.8
2	☐	1.000		4967056.27		A	0.9
3	☐	1.000		4967053.59		A	3.2
4	☐	1.000		5328549.49		A	3.7
5	☐	1.000		5136989.44		A	1.0
6	☐	1.000		4927440.48		A	5.7
7	☐	1.000		4987907.26		A	2.5
8	☐	1.000		4894961.93		A	1.2

115 In (ISTD) [He]

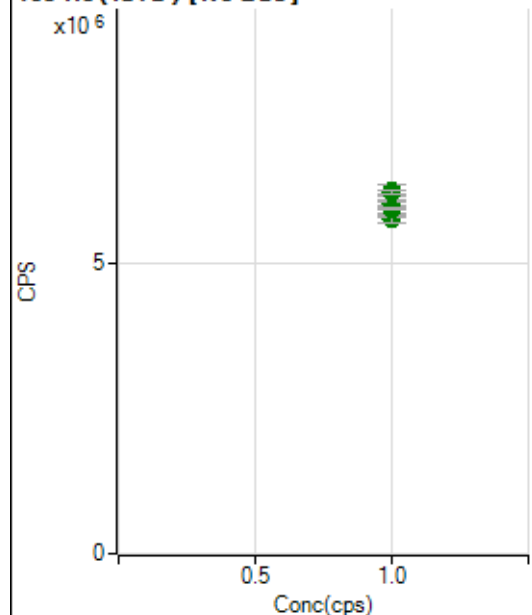
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		773624.20		P	6.6
2	☐	1.000		803541.42		P	0.5
3	☐	1.000		795197.47		P	1.6
4	☐	1.000		777932.10		P	5.6
5	☐	1.000		784657.81		P	0.8
6	☐	1.000		752965.40		P	4.2
7	☐	1.000		771106.55		P	1.4
8	☐	1.000		743773.55		P	1.1

159 Tb (ISTD) [No Gas]

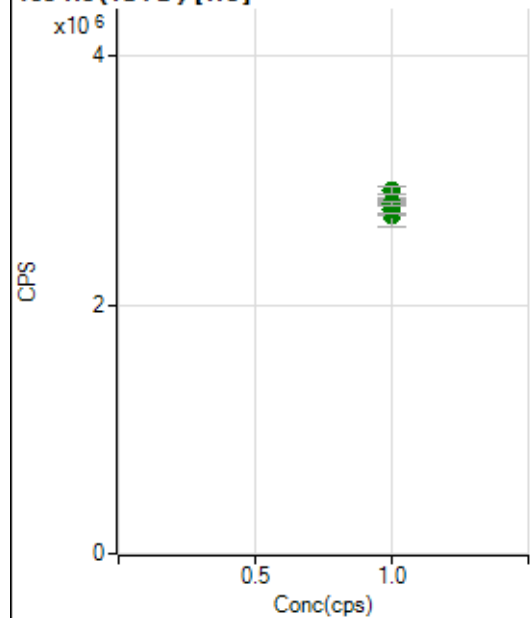
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6309542.27		A	3.1
2	☐	1.000		6129233.10		A	2.3
3	☐	1.000		6110193.87		A	1.9
4	☐	1.000		6525361.01		A	3.7
5	☐	1.000		6258306.02		A	1.8
6	☐	1.000		6240101.02		A	6.3
7	☐	1.000		6457189.00		A	1.4
8	☐	1.000		6267710.67		A	0.7

159 Tb (ISTD) [He]

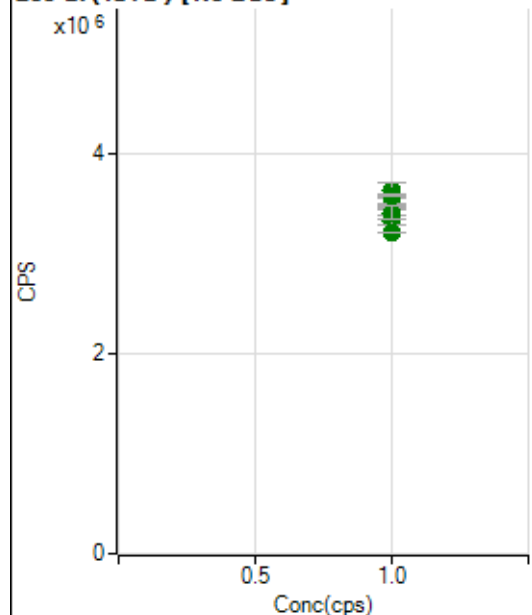
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2735735.53		A	5.3
2	☐	1.000		2786780.65		A	0.8
3	☐	1.000		2742971.87		A	1.8
4	☐	1.000		2726335.25		A	6.9
5	☐	1.000		2830370.34		A	0.8
6	☐	1.000		2699017.18		A	5.1
7	☐	1.000		2914453.60		A	0.2
8	☐	1.000		2758683.95		A	1.0

165 Ho (ISTD) [No Gas]

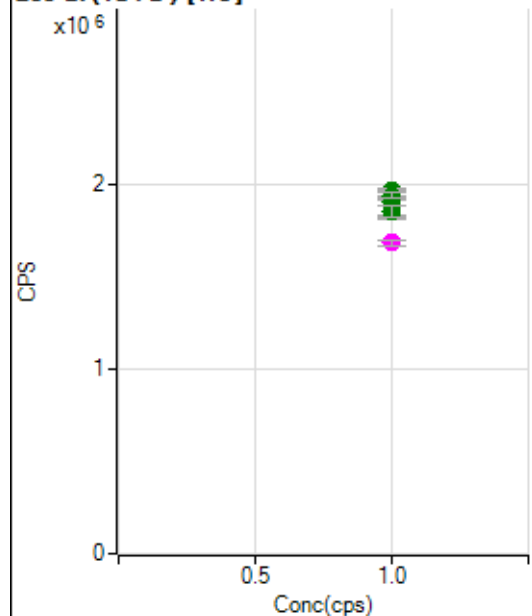
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5990436.07		A	2.4
2	☐	1.000		5835459.68		A	1.2
3	☐	1.000		5770108.37		A	2.0
4	☐	1.000		6254343.28		A	3.2
5	☐	1.000		6030434.21		A	1.1
6	☐	1.000		5946096.84		A	5.2
7	☐	1.000		6229014.29		A	1.5
8	☐	1.000		5948532.68		A	0.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2718021.97		A	6.8
2	☐	1.000		2819358.57		A	1.5
3	☐	1.000		2816396.97		A	1.1
4	☐	1.000		2792531.63		A	4.6
5	☐	1.000		2831894.64		A	2.0
6	☐	1.000		2768198.40		A	2.8
7	☐	1.000		2916242.14		A	2.0
8	☐	1.000		2813620.10		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3487748.80		A	1.2
2	☐	1.000		3452946.37		A	0.6
3	☐	1.000		3332623.18		A	2.9
4	☐	1.000		3630235.54		A	4.4
5	☐	1.000		3486269.88		A	0.8
6	☐	1.000		3413837.52		A	3.8
7	☐	1.000		3581856.09		A	0.6
8	☐	1.000		3216215.51		A	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1885039.00		A	8.2
2	☐	1.000		1963985.11		A	0.3
3	☐	1.000		1912401.40		A	2.4
4	☐	1.000		1903898.81		A	7.8
5	☐	1.000		1936098.08		A	2.2
6	☐	1.000		1852215.35		A	3.4
7	☐	1.000		1937905.74		A	1.5
8	☐	1.000		1681999.63		M	2.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8011922MS1.b
Acq. Date-Time 2022-01-19 14:33:09
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		2271	22707.33			1.207	5.000
24		33343	333433.71			1.505	5.000
25		4503	45029.78			1.472	5.000
26		5354	53544.18			1.367	5.000
59		11374	113740.66			1.924	5.000
113		5733	57333.06			1.239	5.000
115		20668	206677.54			2.625	5.000
206		7636	76356.66			1.731	5.000
207		6413	64127.66			1.933	5.000
208		15798	157977.46			1.600	5.000
220		1	6.30			26.082	

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

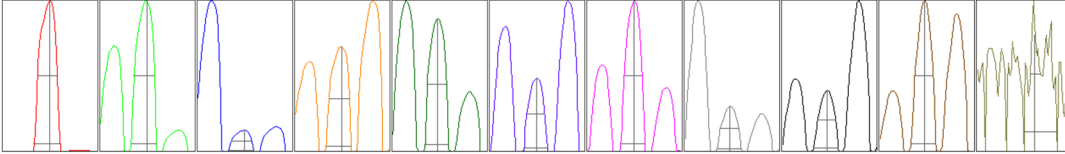
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2246	2239	2300	2274	2294
24	33267	32545	33506	33496	33903
25	4486	4395	4556	4527	4551
26	5357	5243	5337	5400	5435
59	11406	11007	11435	11424	11598
113	5721	5618	5800	5751	5777
115	21515	20523	20680	20611	20009
206	7641	7417	7641	7742	7738
207	6412	6210	6443	6454	6546
208	15790	15391	15842	15886	16081

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3903.14	9.00	8.90 - 9.10	
24	54802.36	24.00	23.90 - 24.10	
25	7436.61	25.00	24.90 - 25.10	
26	8676.25	26.00	25.90 - 26.10	
59	20014.34	58.95	58.90 - 59.10	
113	10748.53	113.00	112.90 - 113.10	
115	38619.82	115.00	114.90 - 115.10	
206	14020.25	205.95	205.90 - 206.10	
207	11737.32	206.95	206.90 - 207.10	
208	29071.98	207.95	207.90 - 208.10	
220	0.85	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.816	0.900	
24	0.65	0.790	0.900	
25	0.65	0.788	0.900	
26	0.66	0.789	0.900	
59	0.60	0.740	0.900	
113	0.56	0.734	0.900	
115	0.56	0.769	0.900	
206	0.58	0.771	0.900	
207	0.57	0.783	0.900	
208	0.58	0.785	0.900	
220	0.33	1.027		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.8 V	Deflect	15.6 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.1 mV	Analog HV	2293 V	Pulse HV	1605 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2788	27882.59			1.061	
89		11403	114033.03			1.116	
205		14610	146099.51			1.475	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2830	2801	2774	2752	2784
89	11617	11350	11370	11280	11399
205	14901	14463	14482	14425	14780

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.8 V	Deflect	4.4 V
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Extract 2	-160.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 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	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.1 mV	Analog HV	2293 V	Pulse HV	1605 V