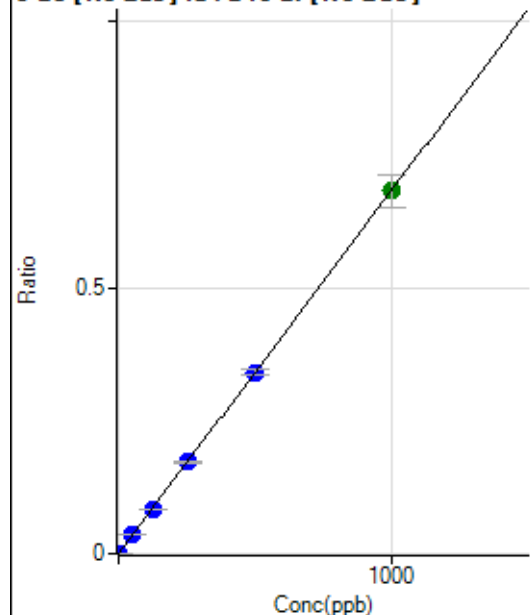


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020624 MS.b\
 Analysis File: P8020624 MS.batch.bin
 DA Date-Time: 2024-02-06 13:22:06
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-06 11:34:49
2	005CALS.d	S02	2024-02-06 11:38:14
3	006CALS.d	S03	2024-02-06 11:41:40
4	007CALS.d	S04	2024-02-06 11:44:55
5	008CALS.d	S05	2024-02-06 11:48:04
6	009CALS.d	S06	2024-02-06 11:51:05
7	010CALS.d	S07	2024-02-06 11:54:09
8	011CALS.d	S08	2024-02-06 11:57:12

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.24	0.0000	P	1.7
2	☐	1.000	0.976	1797.81	0.0007	P	1.5
3	☐	50.000	51.219	88361.58	0.0350	P	2.0
4	☐	125.000	122.522	204947.53	0.0837	P	1.6
5	☐	250.000	253.713	393294.35	0.1732	P	2.1
6	☐	500.000	500.401	754553.37	0.3416	P	2.3
7	☐	1000.000	999.120	1426380.67	0.6821	A	9.3
8	☐			220.39	0.0001	P	10.9

$$y = 6.8270E-004 * x + 2.4161E-005$$

$$R = 1.0000$$

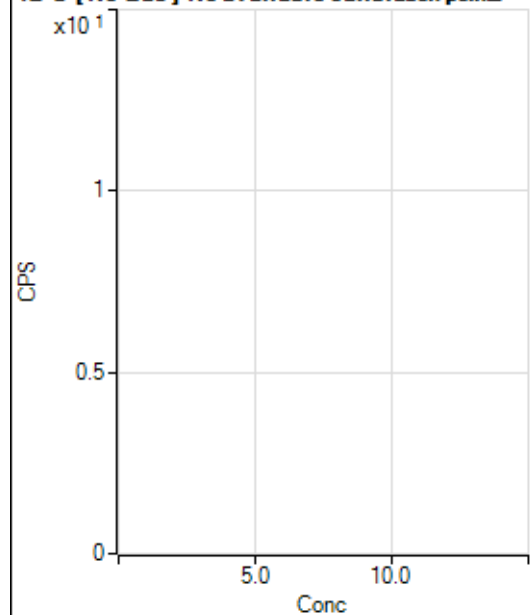
$$DL = 0.001799$$

$$BEC = 0.03539$$

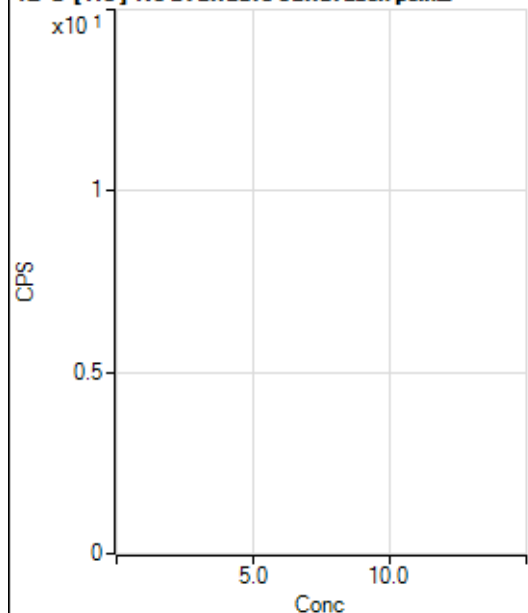
Weight: <None>

Min Conc: 0

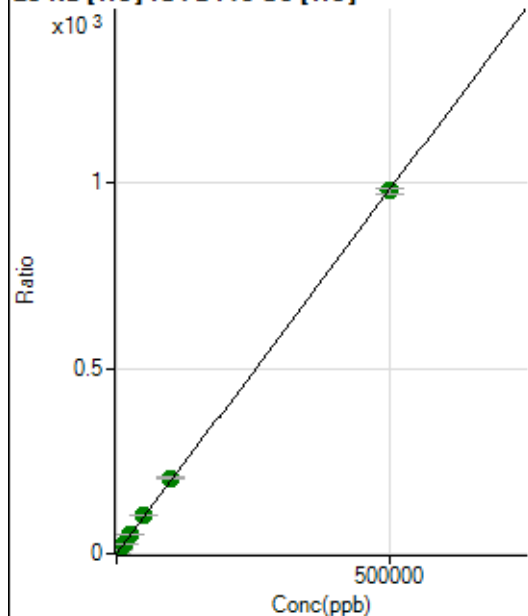
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1962843.15		A	2.0
2	☐			1859504.05		A	1.6
3	☐			1908157.53		A	0.9
4	☐			1788789.65		A	1.5
5	☐			1788269.28		A	0.8
6	☐			1834012.70		A	1.4
7	☐			1990564.52		A	3.2
8	☐			2107096.69		A	6.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25123.78		P	0.5
2	☐			23626.85		P	0.7
3	☐			24269.00		P	0.6
4	☐			22518.43		P	2.7
5	☐			23343.05		P	0.9
6	☐			24380.27		P	1.1
7	☐			27307.60		P	1.0
8	☐			35646.52		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9167.39	0.0722	P	1.1
2	☐	500.000	519.299	139583.72	1.0915	P	0.3
3	☐	5000.000	5418.906	1299751.08	10.7094	A	1.9
4	☐	12500.000	13196.824	3018936.06	25.9773	A	1.6
5	☐	25000.000	27114.047	5951497.27	53.2967	A	0.5
6	☐	50000.000	53441.056	11642228.30	104.9762	A	0.8
7	☐	100000.00	104230.09	22692410.22	204.6745	A	1.2
8	☐	500000.00	498682.54	121452253.7	978.9794	A	1.8

$$y = 0.0020 * x + 0.0722$$

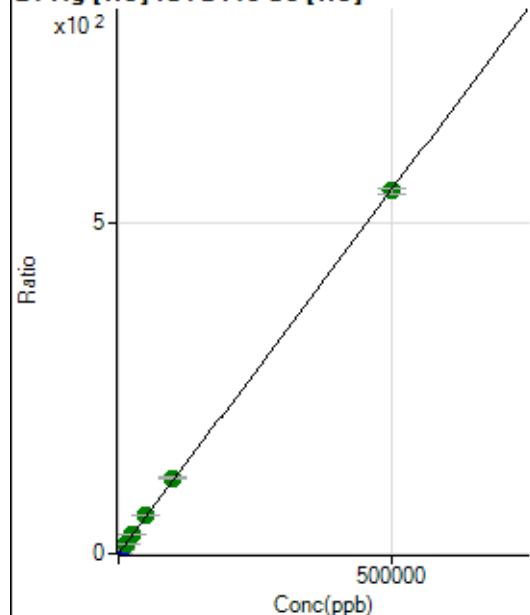
$$R = 0.9999$$

$$DL = 1.251$$

$$BEC = 36.76$$

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	113.33	0.0009	P	16.5
2	☐	500.000	522.470	73547.73	0.5752	P	1.9
3	☐	5000.000	5555.085	741213.41	6.1072	P	0.1
4	☐	12500.000	13233.991	1690651.71	14.5482	A	2.2
5	☐	25000.000	27224.125	3341796.34	29.9266	A	0.5
6	☐	50000.000	52899.173	6448984.83	58.1495	A	0.4
7	☐	100000.00	103791.33	12649360.09	114.0919	A	1.7
8	☐	500000.00	498816.68	68032610.65	548.3176	A	1.3

$$y = 0.0011 * x + 8.9473E-004$$

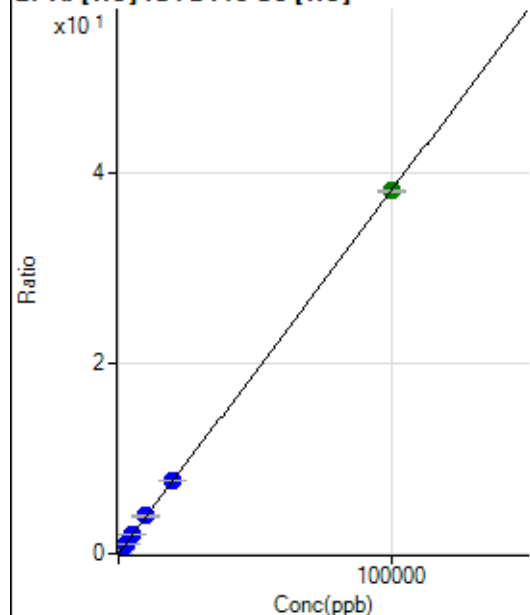
$$R = 1.0000$$

$$DL = 0.4021$$

$$BEC = 0.814$$

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	55.55	0.0004	P	27.6
2	☐	20.000	20.907	1075.60	0.0084	P	9.0
3	☐	1000.000	1172.229	54324.47	0.4476	P	1.9
4	☐	2500.000	2530.455	112250.29	0.9658	P	0.0
5	☐	5000.000	5231.038	222891.83	1.9961	P	1.1
6	☐	10000.000	10361.684	438445.05	3.9534	P	0.7
7	☐	20000.000	20066.750	848826.36	7.6560	P	0.3
8	☐	100000.00	99936.446	4730949.65	38.1265	A	0.8

$$y = 3.8150E-004 * x + 4.3661E-004$$

$$R = 1.0000$$

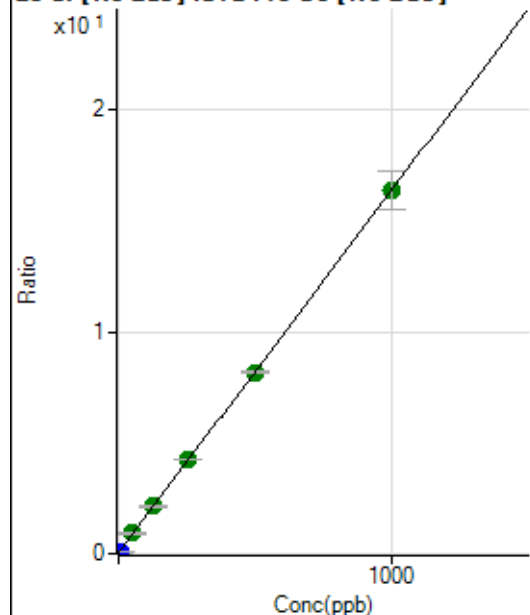
$$DL = 0.9493$$

$$BEC = 1.144$$

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	162926.86	0.0412	P	1.3
2	☐	10.000	0.379	189422.96	0.0474	P	0.8
3	☐	50.000	53.285	3559391.23	0.9124	A	1.1
4	☐	125.000	127.681	8035510.44	2.1286	A	1.6
5	☐	250.000	257.759	15188500.88	4.2552	A	0.3
6	☐	500.000	498.565	28950616.79	8.1920	A	1.4
7	☐	1000.000	998.375	54505303.08	16.3632	A	10.5
8	☐			1159632.02	0.3385	A	10.5

$$y = 0.0163 * x + 0.0412$$

$$R = 0.9999$$

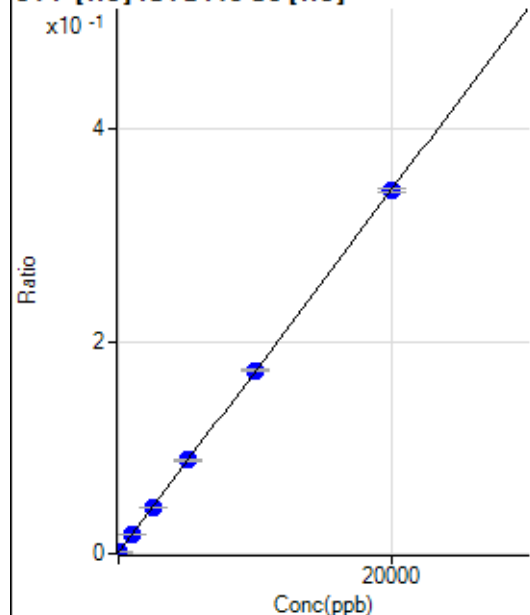
$$DL = 0.09855$$

$$BEC = 2.522$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-5.452	112.22	0.0009	P	21.5
2	☐	0.000	5.452	136.67	0.0011	P	25.1
3	☐	1000.000	1029.479	2253.53	0.0186	P	1.9
4	☐	2500.000	2500.862	5080.94	0.0437	P	2.6
5	☐	5000.000	5122.084	9884.57	0.0885	P	2.3
6	☐	10000.000	10050.850	19160.51	0.1728	P	0.6
7	☐	20000.000	19942.472	37901.60	0.3418	P	1.2
8	☐			134.45	0.0011	P	36.1

$$y = 1.7093E-005 * x + 9.7325E-004$$

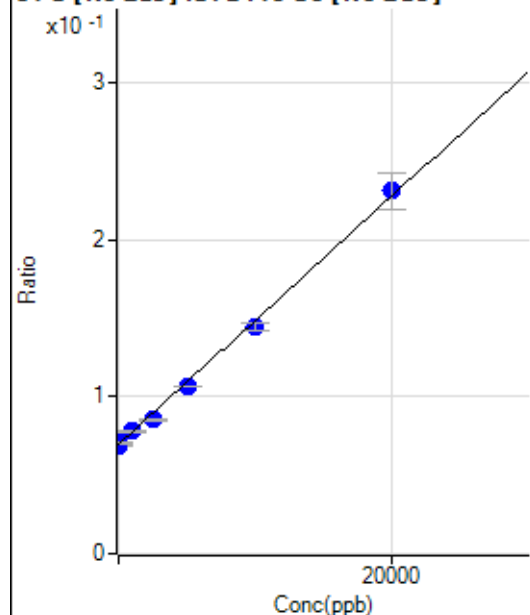
$$R = 1.0000$$

$$DL = 40.09$$

$$BEC = 56.94$$

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	-105.827	271835.68	0.0688	P	1.2
2	☐	0.000	105.827	281440.29	0.0705	P	0.3
3	☐	1000.000	1052.493	304107.29	0.0779	P	1.7
4	☐	2500.000	1971.302	321657.01	0.0852	P	0.7
5	☐	5000.000	4645.929	379511.47	0.1063	P	0.8
6	☐	10000.000	9472.904	510294.25	0.1445	P	2.8
7	☐	20000.000	20415.528	769229.74	0.2309	P	10.1
8	☐			233140.63	0.0681	P	5.2

$$y = 7.8976E-006 * x + 0.0696$$

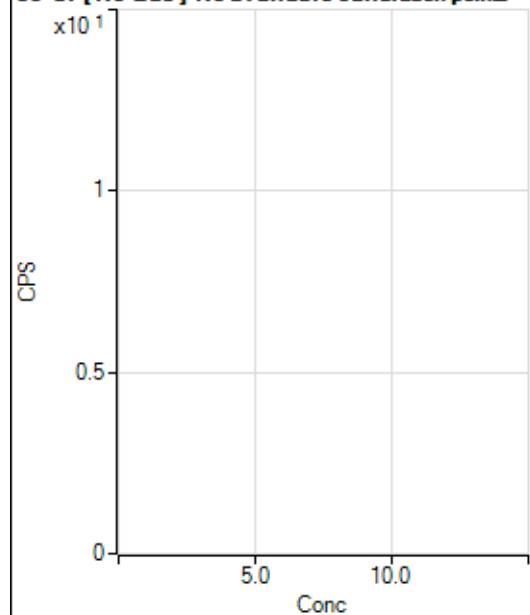
R = 0.9990

DL = 203.7

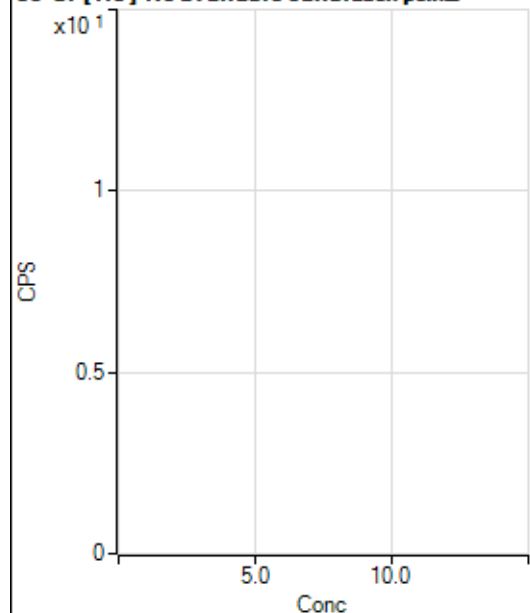
BEC = 8817

Weight: <None>

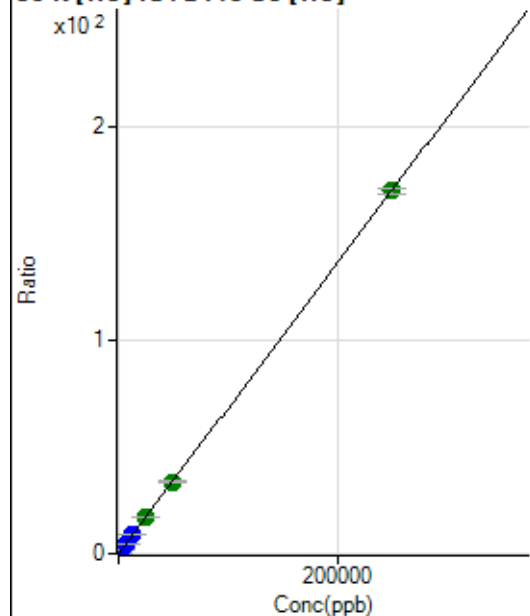
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68408.35		P	0.6
2	☐			72581.83		P	1.2
3	☐			70493.78		P	0.8
4	☐			66369.94		P	0.8
5	☐			68155.92		P	0.2
6	☐			74058.09		P	1.2
7	☐			97182.31		P	2.7
8	☐			70369.99		P	3.6

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			452.23		P	7.9
2	☐			488.90		P	8.1
3	☐			475.57		P	7.0
4	☐			426.68		P	11.3
5	☐			426.68		P	14.6
6	☐			554.46		P	9.6
7	☐			678.91		P	3.2
8	☐			548.90		P	6.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6170.26	0.0486	P	3.6
2	☐	500.000	495.412	49291.61	0.3855	P	1.5
3	☐	2500.000	2601.705	220614.41	1.8178	P	0.2
4	☐	6250.000	6258.018	500196.98	4.3041	P	1.5
5	☐	12500.000	12898.834	984895.82	8.8199	P	0.3
6	☐	25000.000	25119.664	1899794.00	17.1301	A	0.5
7	☐	50000.000	49558.058	3741971.75	33.7483	A	1.4
8	☐	250000.00	250055.27	21101071.91	170.0876	A	1.9

$$y = 6.8001E-004 * x + 0.0486$$

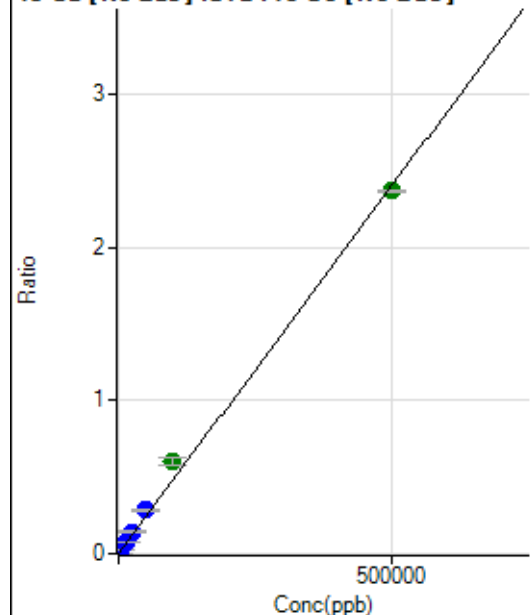
$$R = 1.0000$$

$$DL = 7.715$$

$$BEC = 71.46$$

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	137.78	0.0000	P	7.0
2	☐	500.000	501.938	9767.83	0.0024	P	1.9
3	☐	5000.000	6075.639	113989.59	0.0292	P	0.9
4	☐	12500.000	14585.439	264652.59	0.0701	P	0.3
5	☐	25000.000	30062.871	515526.94	0.1444	P	1.4
6	☐	50000.000	58971.719	1000907.78	0.2833	P	2.5
7	☐	100000.00	126047.51	2020952.89	0.6055	A	7.4
8	☐	500000.00	493577.28	8114857.31	2.3710	A	0.6

$$y = 4.8037\text{E-}006 * x + 3.4864\text{E-}005$$

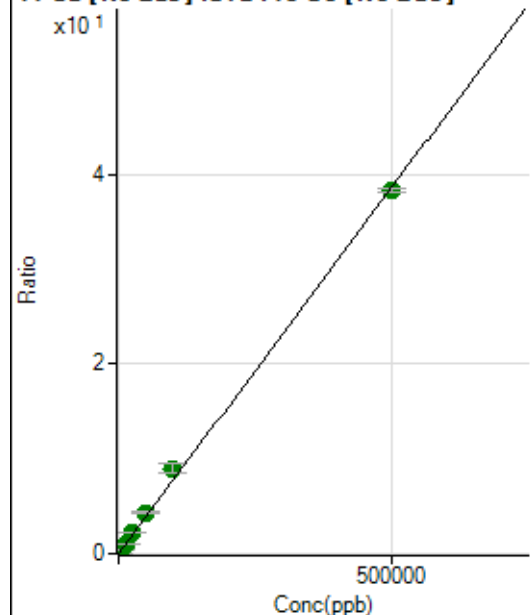
$$R = 0.9985$$

$$DL = 1.519$$

$$BEC = 7.258$$

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	24249.37	0.0061	P	2.7
2	☐	500.000	505.765	180391.05	0.0452	P	0.5
3	☐	5000.000	5894.521	1798594.66	0.4611	A	1.1
4	☐	12500.000	14150.977	4144876.43	1.0983	A	2.4
5	☐	25000.000	28664.941	7917941.76	2.2184	A	1.1
6	☐	50000.000	56375.238	15393862.27	4.3570	A	2.1
7	☐	100000.00	116846.44	30084882.61	9.0241	A	9.1
8	☐	500000.00	495759.71	130965706.9	38.2676	A	1.0

$$y = 7.7178\text{E-}005 * x + 0.0061$$

$$R = 0.9994$$

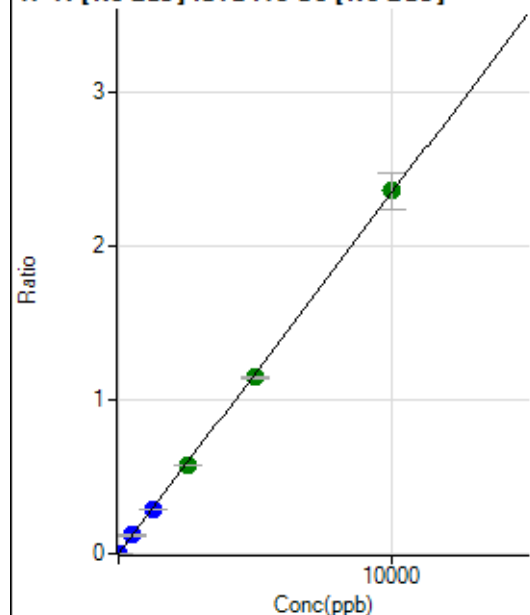
$$DL = 6.474$$

$$BEC = 79.53$$

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	82.22	0.0000	P	30.2
2	☐	5.000	4.998	4767.51	0.0012	P	3.0
3	☐	500.000	506.972	464249.89	0.1190	P	0.6
4	☐	1250.000	1226.020	1086161.50	0.2878	P	1.3
5	☐	2500.000	2469.753	2069021.76	0.5796	A	0.5
6	☐	5000.000	4886.753	4052315.32	1.1469	A	1.7
7	☐	10000.000	10066.834	7870200.79	2.3626	A	10.4
8	☐			1368.97	0.0004	P	6.2

$$y = 2.3469E-004 * x + 2.0824E-005$$

$$R = 0.9999$$

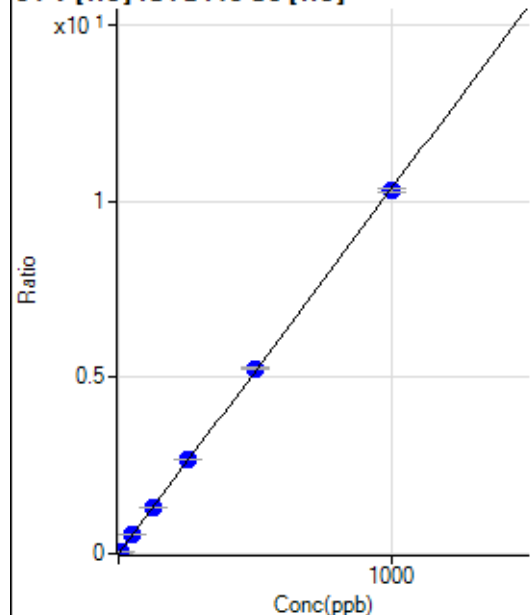
$$DL = 0.08035$$

$$BEC = 0.08873$$

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	22.2
2	☐	5.000	5.229	6940.63	0.0543	P	1.8
3	☐	50.000	51.590	64899.45	0.5347	P	0.4
4	☐	125.000	124.914	150462.46	1.2947	P	1.1
5	☐	250.000	257.626	298157.58	2.6701	P	0.5
6	☐	500.000	508.164	584088.24	5.2666	P	0.6
7	☐	1000.000	993.942	1142096.17	10.3011	P	0.9
8	☐			644.50	0.0052	P	49.9

$$y = 0.0104 * x + 7.0039E-005$$

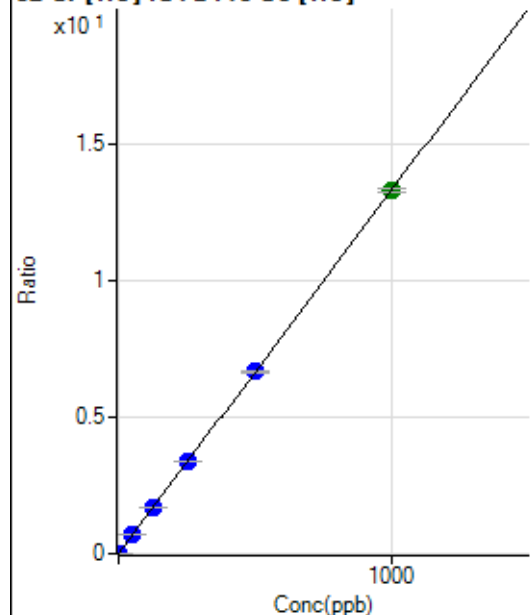
$$R = 0.9999$$

$$DL = 0.0045$$

$$BEC = 0.006758$$

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	785.58	0.0062	P	6.1
2	☐	2.000	1.974	4148.42	0.0324	P	1.5
3	☐	50.000	52.293	85169.36	0.7017	P	1.3
4	☐	125.000	125.144	194168.81	1.6707	P	0.9
5	☐	250.000	255.379	379992.36	3.4029	P	0.6
6	☐	500.000	500.573	739079.68	6.6642	P	0.7
7	☐	1000.000	998.236	1472708.59	13.2835	A	1.0
8	☐			10844.30	0.0874	P	4.4

$$y = 0.0133 * x + 0.0062$$

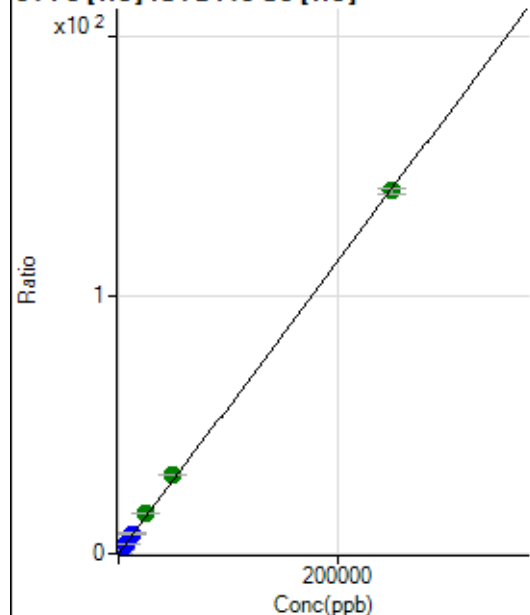
$$R = 1.0000$$

$$DL = 0.08458$$

$$BEC = 0.4653$$

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	194.45	0.0015	P	20.6
2	☐	50.000	57.463	4336.26	0.0339	P	2.9
3	☐	2500.000	2818.514	193001.39	1.5903	P	0.8
4	☐	6250.000	6781.141	444412.99	3.8240	P	1.0
5	☐	12500.000	13844.616	871617.82	7.8055	P	0.4
6	☐	25000.000	27611.196	1726265.60	15.5656	A	0.2
7	☐	50000.000	53700.225	3356223.88	30.2716	A	0.4
8	☐	250000.00	248915.13	17407858.07	140.3115	A	1.5

$$y = 5.6369E-004 * x + 0.0015$$

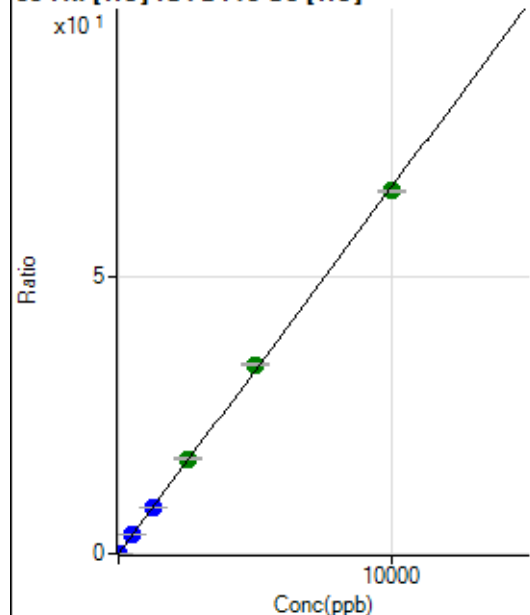
$$R = 0.9999$$

$$DL = 1.669$$

$$BEC = 2.704$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	42.22	0.0003	P	23.5
2	☐	1.000	0.938	836.70	0.0065	P	7.0
3	☐	500.000	519.806	418095.54	3.4450	P	1.1
4	☐	1250.000	1255.469	966943.58	8.3200	P	0.8
5	☐	2500.000	2595.440	1920708.44	17.1997	A	1.1
6	☐	5000.000	5153.675	3787578.66	34.1526	A	0.7
7	☐	10000.000	9897.629	7271837.11	65.5896	A	0.8
8	☐			8175.03	0.0656	P	30.0

$$y = 0.0066 * x + 3.3106E-004$$

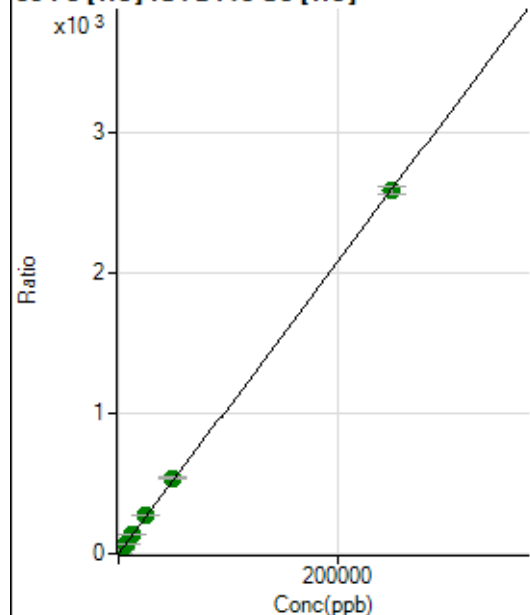
$$R = 0.9998$$

$$DL = 0.03516$$

$$BEC = 0.04996$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1117.83	0.0088	P	1.1
2	☐	50.000	53.341	71728.03	0.5609	P	0.8
3	☐	2500.000	2792.767	3509238.77	28.9148	A	0.9
4	☐	6250.000	6686.560	8043929.26	69.2167	A	1.8
5	☐	12500.000	13615.880	15738066.29	140.9372	A	1.1
6	☐	25000.000	26901.229	30880242.87	278.4445	A	0.5
7	☐	50000.000	52053.802	59733744.11	538.7812	A	0.9
8	☐	250000.00	249329.48	320119084.1	2580.643	A	2.2

$$y = 0.0104 * x + 0.0088$$

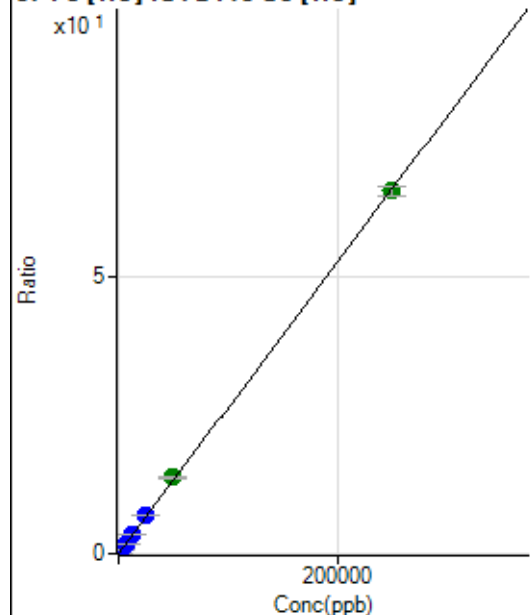
$$R = 0.9999$$

$$DL = 0.02836$$

$$BEC = 0.8501$$

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	66.67	0.0005	P	18.8
2	☐	50.000	52.604	1837.92	0.0144	P	4.2
3	☐	2500.000	2708.941	86625.51	0.7138	P	0.9
4	☐	6250.000	6528.786	199847.25	1.7195	P	0.4
5	☐	12500.000	13397.827	393979.48	3.5281	P	0.5
6	☐	25000.000	26343.702	769315.66	6.9368	P	0.7
7	☐	50000.000	52473.606	1531787.46	13.8167	A	1.6
8	☐	250000.00	249316.95	8143069.39	65.6452	A	2.5

$$y = 2.6330\text{E-}004 * x + 5.2416\text{E-}004$$

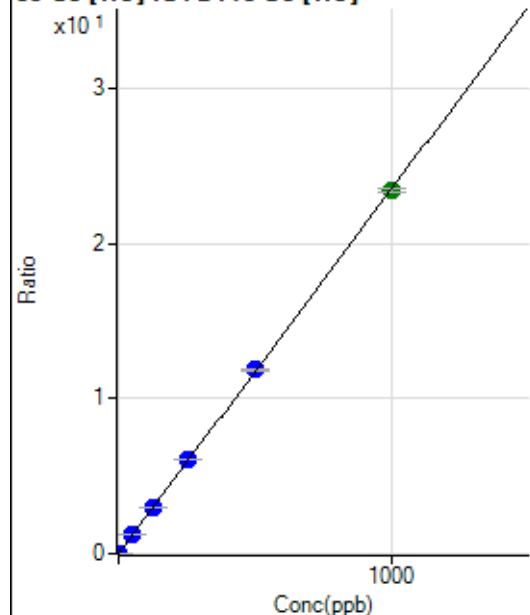
$$R = 0.9999$$

$$DL = 1.124$$

$$BEC = 1.991$$

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	38.89	0.0003	P	2.6
2	☐	1.000	1.110	3378.21	0.0264	P	1.4
3	☐	50.000	53.134	151662.25	1.2497	P	1.4
4	☐	125.000	127.667	348923.78	3.0022	P	0.2
5	☐	250.000	259.692	681889.27	6.1065	P	0.7
6	☐	500.000	503.826	1313848.75	11.8469	P	0.3
7	☐	1000.000	995.174	2594374.18	23.4001	A	1.1
8	☐			8025.80	0.0647	P	5.4

$$y = 0.0235 * x + 3.0595\text{E-}004$$

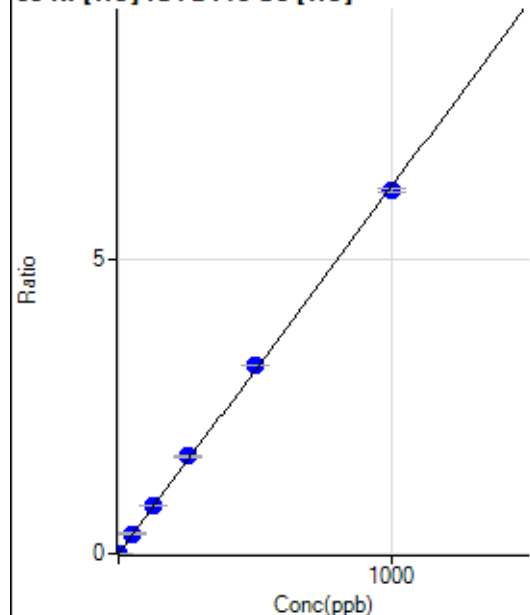
$$R = 0.9999$$

$$DL = 0.001009$$

$$BEC = 0.01301$$

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	52.22	0.0004	P	30.8
2	☐	1.000	1.050	887.82	0.0069	P	6.0
3	☐	50.000	54.911	41493.70	0.3419	P	1.5
4	☐	125.000	130.673	94489.99	0.8131	P	1.7
5	☐	250.000	265.563	184466.30	1.6520	P	0.8
6	☐	500.000	513.301	354078.06	3.1927	P	0.5
7	☐	1000.000	988.504	681610.71	6.1480	P	1.1
8	☐			3679.41	0.0296	P	6.7

$$y = 0.0062 * x + 4.1250E-004$$

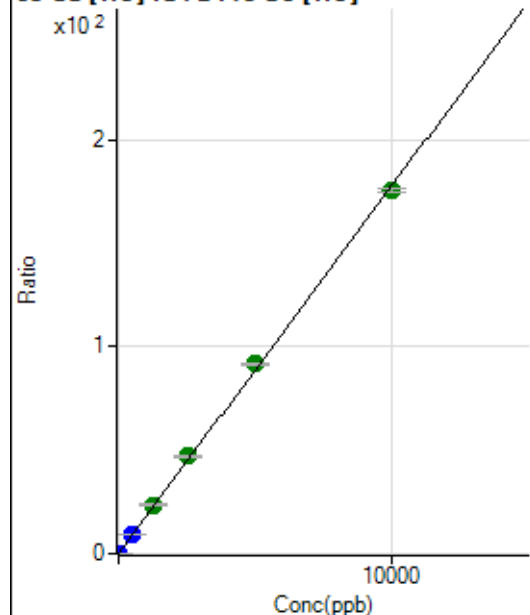
$$R = 0.9997$$

$$DL = 0.06126$$

$$BEC = 0.06633$$

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	524.46	0.0041	P	10.6
2	☐	2.000	2.122	5352.17	0.0419	P	2.2
3	☐	500.000	534.877	1154588.83	9.5134	P	0.1
4	☐	1250.000	1328.200	2744830.58	23.6173	A	1.1
5	☐	2500.000	2653.462	5268082.28	47.1782	A	1.3
6	☐	5000.000	5158.136	10170744.57	91.7071	A	1.0
7	☐	10000.000	9871.048	19456788.88	175.4948	A	0.9
8	☐			9835.20	0.0787	P	48.7

$$y = 0.0178 * x + 0.0041$$

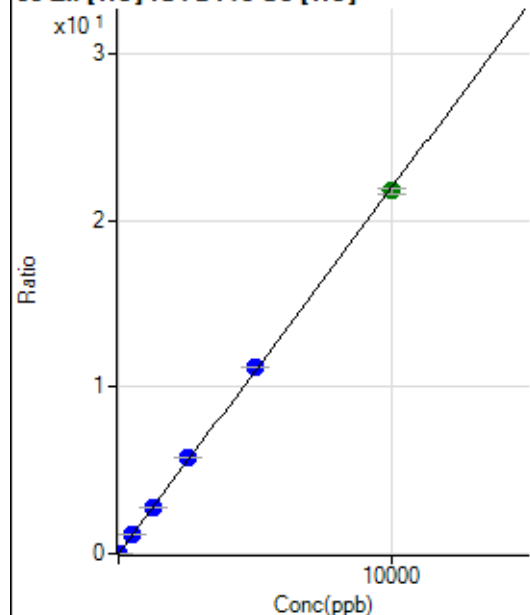
$$R = 0.9997$$

$$DL = 0.07412$$

$$BEC = 0.2325$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	105.56	0.0008	P	1.4
2	☐	5.000	5.038	1521.21	0.0119	P	1.1
3	☐	500.000	536.464	143087.87	1.1790	P	0.8
4	☐	1250.000	1277.374	326140.55	2.8062	P	0.4
5	☐	2500.000	2616.090	641658.82	5.7463	P	0.9
6	☐	5000.000	5088.958	1239594.38	11.1772	P	0.3
7	☐	10000.000	9921.253	2415792.55	21.7899	A	1.5
8	☐			4987.69	0.0401	P	12.0

$$y = 0.0022 * x + 8.3088E-004$$

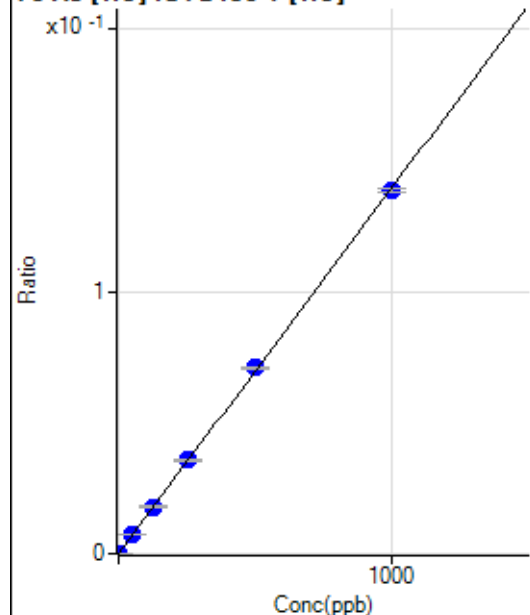
$$R = 0.9999$$

$$DL = 0.01603$$

$$BEC = 0.3783$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.7
2	☐	1.000	1.129	162.23	0.0002	P	10.1
3	☐	50.000	52.671	7092.96	0.0073	P	0.5
4	☐	125.000	127.670	16211.66	0.0178	P	3.6
5	☐	250.000	255.885	31815.98	0.0356	P	1.7
6	☐	500.000	509.856	62429.71	0.0710	P	1.1
7	☐	1000.000	993.133	120506.00	0.1383	P	1.0
8	☐			110.00	0.0001	P	55.6

$$y = 1.3926E-004 * x + 2.2232E-006$$

$$R = 0.9999$$

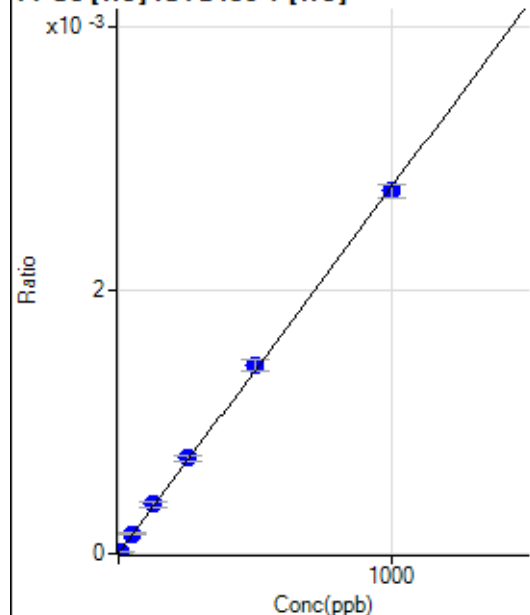
$$DL = 0.04154$$

$$BEC = 0.01596$$

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	173.2
2	☐	5.000	5.120	16.67	0.0000	P	19.7
3	☐	50.000	52.596	143.34	0.0001	P	7.1
4	☐	125.000	133.439	340.01	0.0004	P	8.5
5	☐	250.000	259.853	646.69	0.0007	P	5.0
6	☐	500.000	514.015	1257.85	0.0014	P	6.3
7	☐	1000.000	989.344	2398.01	0.0028	P	3.6
8	☐			16.67	0.0000	P	20.2

$$y = 2.7794\text{E-}006 * x + 2.1448\text{E-}006$$

$$R = 0.9998$$

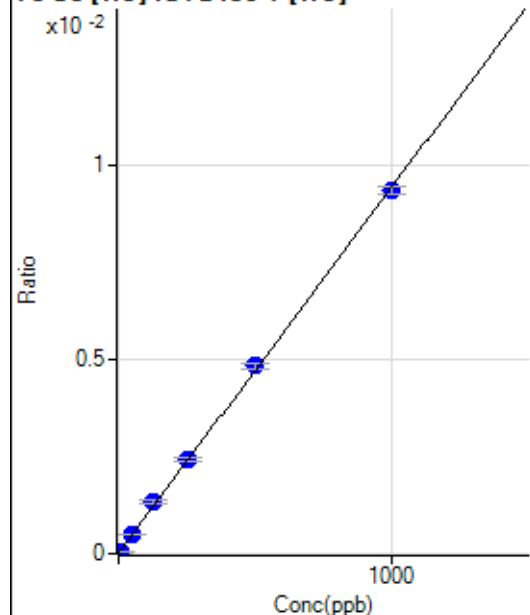
$$DL = 4.01$$

$$BEC = 0.7717$$

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	14.44	0.0000	P	72.8
2	☐	5.000	4.256	55.55	0.0001	P	24.3
3	☐	50.000	51.504	483.35	0.0005	P	4.3
4	☐	125.000	138.442	1203.40	0.0013	P	7.3
5	☐	250.000	256.417	2170.19	0.0024	P	2.9
6	☐	500.000	512.096	4256.24	0.0048	P	2.5
7	☐	1000.000	990.596	8146.89	0.0094	P	2.3
8	☐			66.67	0.0001	P	16.8

$$y = 9.4242\text{E-}006 * x + 1.4497\text{E-}005$$

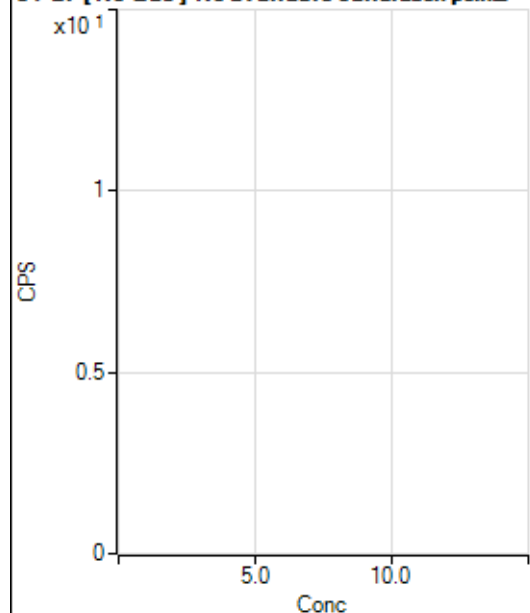
$$R = 0.9998$$

$$DL = 3.362$$

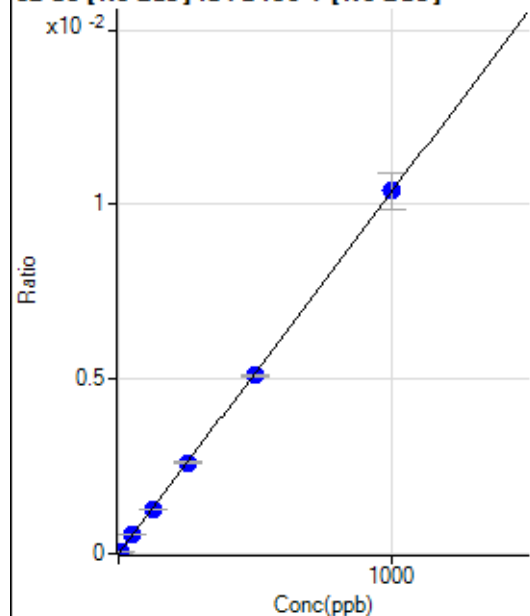
$$BEC = 1.538$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2026.84		P	1.7
2	☐			1952.38		P	3.1
3	☐			2055.73		P	4.2
4	☐			1780.13		P	9.1
5	☐			1722.35		P	5.9
6	☐			1687.90		P	1.8
7	☐			1699.01		P	2.9
8	☐			4002.85		P	18.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-35.55	0.0000	P	-178.
2	☐	5.000	5.477	550.03	0.0001	P	10.4
3	☐	50.000	51.927	5398.93	0.0005	P	3.3
4	☐	125.000	120.905	12431.31	0.0012	P	1.9
5	☐	250.000	252.215	24566.43	0.0026	P	2.8
6	☐	500.000	492.811	47129.46	0.0051	P	0.9
7	☐	1000.000	1003.454	90495.37	0.0104	P	10.3
8	☐			486.69	0.0001	P	4.2

$$y = 1.0360E-005 * x - 3.4526E-006$$

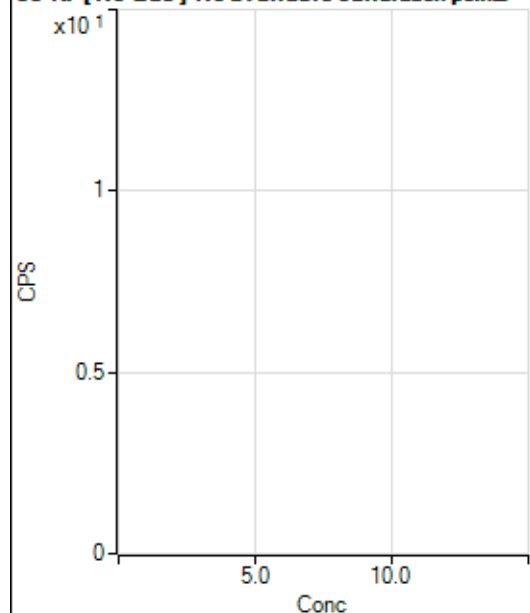
$$R = 0.9999$$

$$DL = 1.785$$

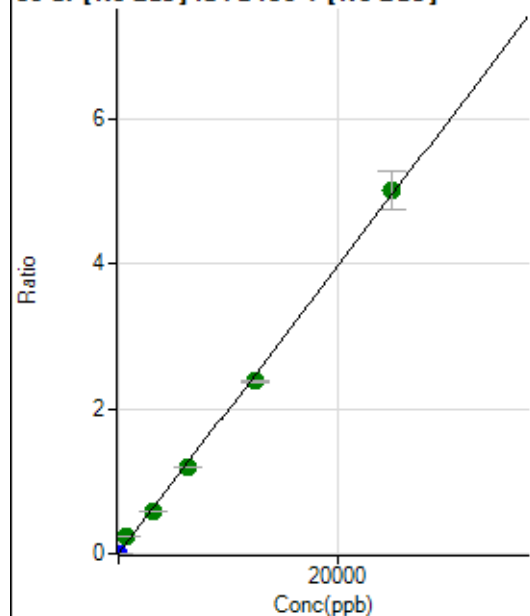
$$BEC = -0.3333$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			197.78		P	10.2
2	☐			192.22		P	2.0
3	☐			178.89		P	16.9
4	☐			155.56		P	6.9
5	☐			160.00		P	13.7
6	☐			156.67		P	16.9
7	☐			150.01		P	10.2
8	☐			174.45		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	376.68	0.0000	P	6.2
2	☐	1.000	0.963	2342.44	0.0002	P	5.8
3	☐	625.000	1247.976	2490718.90	0.2465	A	0.8
4	☐	3125.000	2987.407	5873205.19	0.5901	A	0.9
5	☐	6250.000	6006.058	11169226.36	1.1863	A	0.7
6	☐	12500.000	12007.841	21908733.29	2.3717	A	0.5
7	☐	25000.000	25308.690	43522051.02	4.9988	A	10.5
8	☐			4567.48	0.0005	P	1.5

$$y = 1.9751E-004 * x + 3.6800E-005$$

$$R = 0.9992$$

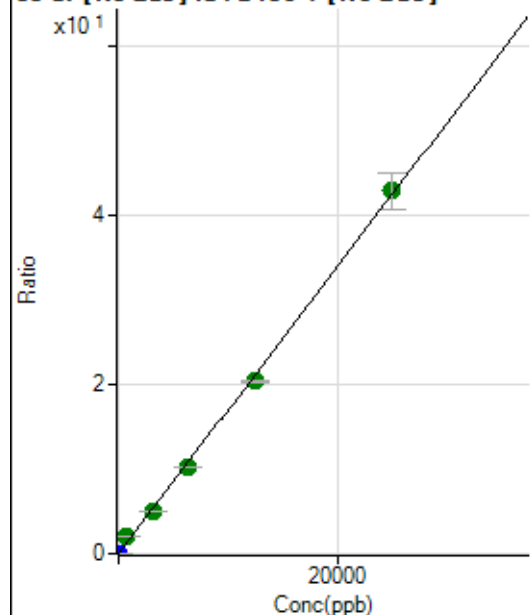
$$DL = 0.03475$$

$$BEC = 0.1863$$

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	567.80	0.0001	P	32.9
2	☐	1.000	0.954	17267.47	0.0017	P	1.8
3	☐	625.000	1226.196	20990455.93	2.0777	A	1.5
4	☐	3125.000	2960.522	49923898.14	5.0164	A	1.8
5	☐	6250.000	6014.483	95954369.68	10.1911	A	0.7
6	☐	12500.000	12013.911	188050052.7	20.3566	A	1.1
7	☐	25000.000	25307.454	373409243.3	42.8814	A	10.2
8	☐			37797.07	0.0042	P	4.9

$$y = 0.0017 * x + 5.5523E-005$$

$$R = 0.9992$$

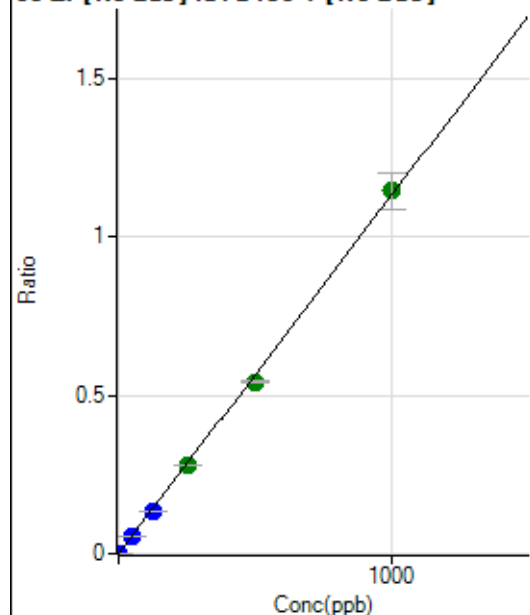
$$DL = 0.03238$$

$$BEC = 0.03277$$

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	372.23	0.0000	P	16.7
2	☐	1.000	0.888	10741.99	0.0010	P	1.4
3	☐	50.000	48.178	550538.39	0.0545	P	0.3
4	☐	125.000	117.086	1317400.74	0.1324	P	1.3
5	☐	250.000	245.502	2612832.08	0.2775	A	0.3
6	☐	500.000	479.468	5005770.55	0.5419	A	1.4
7	☐	1000.000	1012.471	9967360.75	1.1443	A	9.8
8	☐			3967.27	0.0004	P	3.9

$$y = 0.0011 * x + 3.6378E-005$$

$$R = 0.9997$$

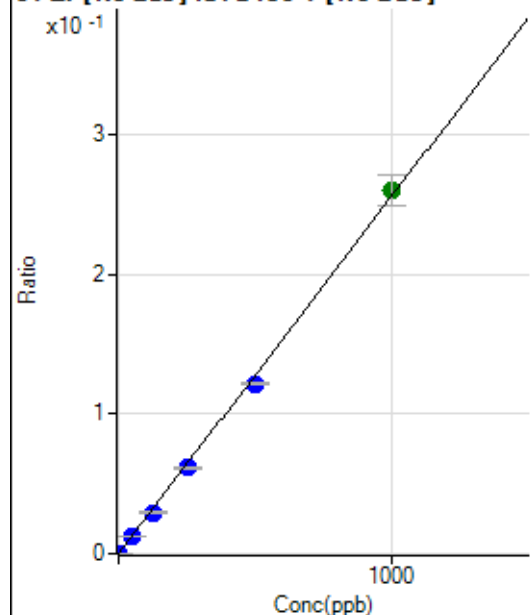
$$DL = 0.01616$$

$$BEC = 0.03219$$

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	71.11	0.0000	P	11.7
2	☐	1.000	0.876	2382.45	0.0002	P	0.2
3	☐	50.000	47.884	123604.16	0.0122	P	2.2
4	☐	125.000	115.591	293810.84	0.0295	P	2.4
5	☐	250.000	239.967	577049.19	0.0613	P	0.4
6	☐	500.000	476.071	1123086.59	0.1216	P	1.1
7	☐	1000.000	1015.755	2261004.36	0.2594	A	8.6
8	☐			856.70	0.0001	P	3.1

$$y = 2.5538\text{E-}004 * x + 6.9459\text{E-}006$$

$$R = 0.9995$$

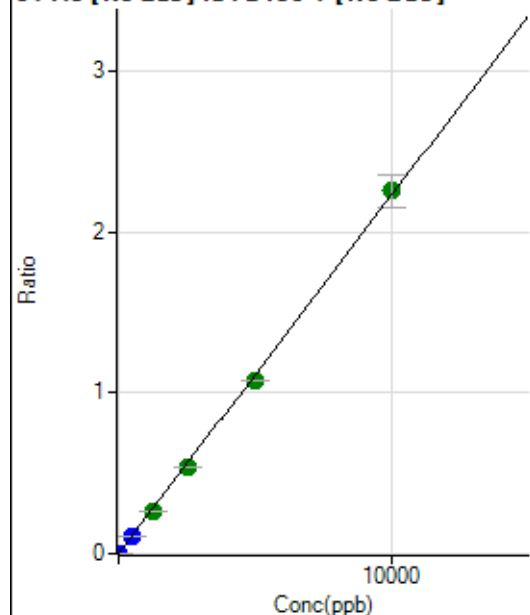
$$DL = 0.00957$$

$$BEC = 0.0272$$

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	137.78	0.0000	P	14.7
2	☐	5.000	5.533	12870.50	0.0012	P	1.0
3	☐	500.000	493.332	1110781.01	0.1099	P	0.9
4	☐	1250.000	1187.410	2633995.45	0.2646	A	0.2
5	☐	2500.000	2423.189	5083574.92	0.5400	A	1.4
6	☐	5000.000	4810.378	9901543.95	1.0719	A	0.2
7	☐	10000.000	10122.171	19655158.46	2.2555	A	8.9
8	☐			4314.04	0.0005	P	3.7

$$y = 2.2283\text{E-}004 * x + 1.3457\text{E-}005$$

$$R = 0.9997$$

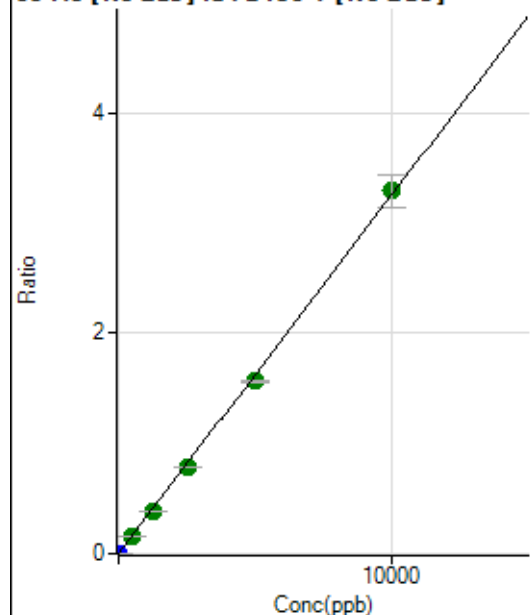
$$DL = 0.02657$$

$$BEC = 0.06039$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	39.7
2	☐	5.000	4.652	15661.18	0.0015	P	2.1
3	☐	500.000	496.997	1633166.26	0.1616	A	0.9
4	☐	1250.000	1183.779	3832307.09	0.3850	A	1.1
5	☐	2500.000	2409.689	7378815.59	0.7837	A	1.6
6	☐	5000.000	4817.417	14472448.67	1.5668	A	1.4
7	☐	10000.000	10122.297	28685229.85	3.2921	A	9.1
8	☐			4963.17	0.0006	P	3.3

$$y = 3.2524\text{E-}004 * x + 3.6899\text{E-}006$$

$$R = 0.9997$$

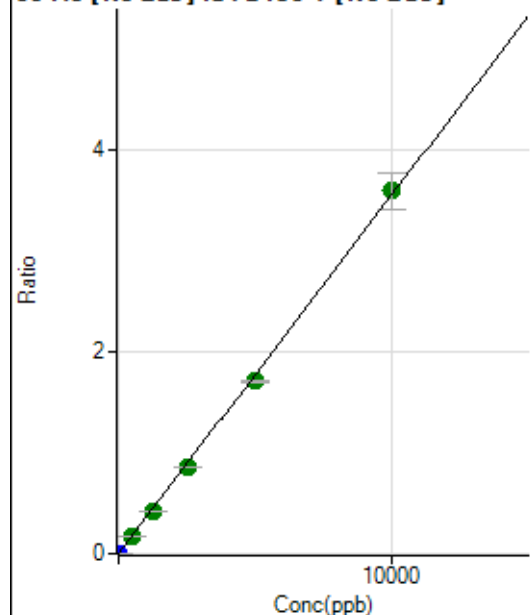
$$DL = 0.0135$$

$$BEC = 0.01135$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0000	P	4.6
2	☐	5.000	4.679	17222.97	0.0017	P	0.7
3	☐	500.000	492.353	1765307.49	0.1748	A	2.3
4	☐	1250.000	1181.480	4174248.20	0.4193	A	0.4
5	☐	2500.000	2415.087	8070719.33	0.8572	A	1.1
6	☐	5000.000	4819.452	15800254.63	1.7105	A	1.2
7	☐	10000.000	10120.450	31285621.75	3.5920	A	9.8
8	☐			5504.48	0.0006	P	1.7

$$y = 3.5492\text{E-}004 * x + 7.1633\text{E-}006$$

$$R = 0.9997$$

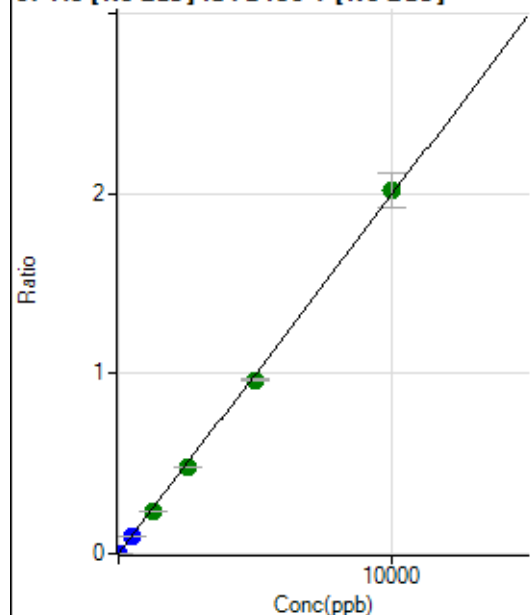
$$DL = 0.002756$$

$$BEC = 0.02018$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14.45	0.0000	P	26.3
2	☐	5.000	4.707	9695.68	0.0009	P	1.0
3	☐	500.000	486.714	979506.62	0.0970	P	1.0
4	☐	1250.000	1184.286	2348195.47	0.2359	A	1.0
5	☐	2500.000	2424.105	4546466.36	0.4829	A	1.1
6	☐	5000.000	4829.074	8885232.37	0.9619	A	1.1
7	☐	10000.000	10113.316	17550250.16	2.0145	A	9.4
8	☐			2929.24	0.0003	P	5.4

$$y = 1.9919\text{E-}004 * x + 1.4099\text{E-}006$$

$$R = 0.9997$$

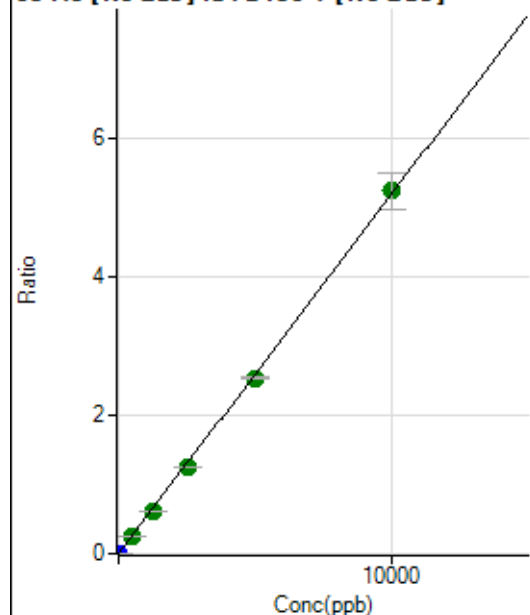
$$DL = 0.005575$$

$$BEC = 0.007078$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	62.22	0.0000	P	19.2
2	☐	5.000	4.631	24874.62	0.0024	P	1.3
3	☐	500.000	493.320	2586068.14	0.2560	A	1.0
4	☐	1250.000	1163.671	6009449.08	0.6038	A	1.1
5	☐	2500.000	2424.506	11844023.16	1.2580	A	0.3
6	☐	5000.000	4872.280	23351299.10	2.5280	A	1.0
7	☐	10000.000	10093.859	45614043.76	5.2372	A	9.9
8	☐			7455.42	0.0008	P	1.0

$$y = 5.1885\text{E-}004 * x + 6.0808\text{E-}006$$

$$R = 0.9998$$

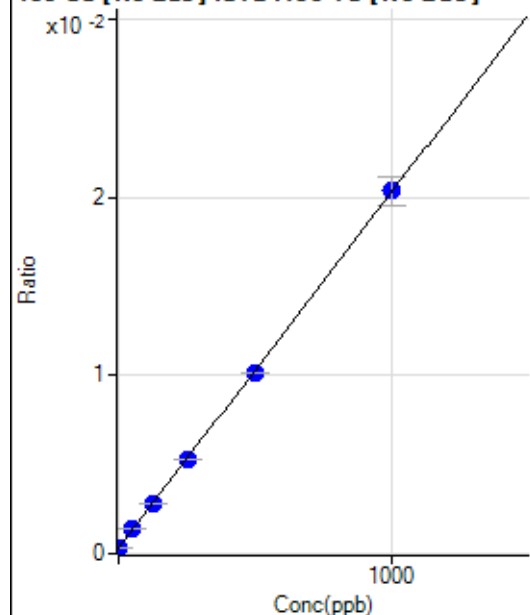
$$DL = 0.006761$$

$$BEC = 0.01172$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2691.40	0.0003	P	2.8
2	☐	1.000	1.844	3022.58	0.0004	P	4.5
3	☐	50.000	53.173	11617.21	0.0014	P	2.1
4	☐	125.000	124.936	23389.91	0.0028	P	2.5
5	☐	250.000	250.768	42765.05	0.0053	P	0.5
6	☐	500.000	491.286	81206.40	0.0101	P	0.6
7	☐	1000.000	1004.014	155393.17	0.0204	P	8.3
8	☐			2528.04	0.0003	P	5.5

$$y = 1.9956\text{E-}005 * x + 3.2329\text{E-}004$$

$$R = 0.9999$$

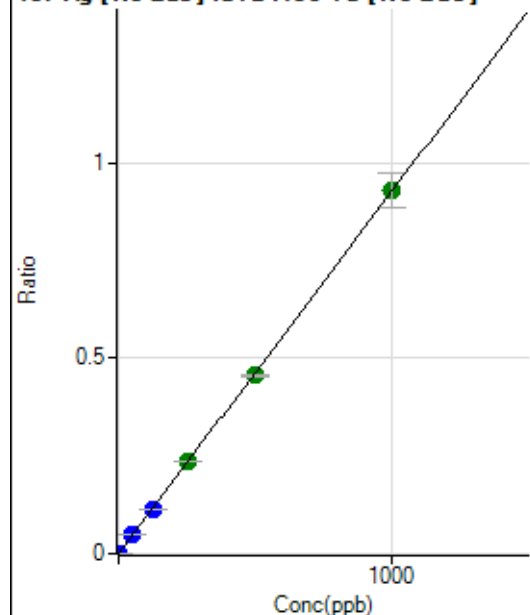
$$DL = 1.378$$

$$BEC = 16.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	51.11	0.0000	P	17.3
2	☐	1.000	0.972	7608.84	0.0009	P	2.8
3	☐	50.000	51.409	399398.70	0.0476	P	0.9
4	☐	125.000	122.229	940018.94	0.1132	P	1.4
5	☐	250.000	256.327	1905090.82	0.2373	A	1.0
6	☐	500.000	491.768	3650705.85	0.4553	A	0.8
7	☐	1000.000	1002.810	7082374.62	0.9284	A	9.4
8	☐			817.81	0.0001	P	6.6

$$y = 9.2584\text{E-}004 * x + 6.1448\text{E-}006$$

$$R = 0.9999$$

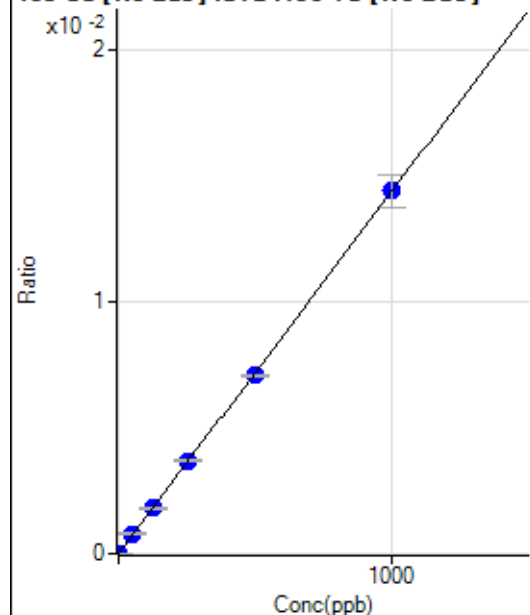
$$DL = 0.003436$$

$$BEC = 0.006637$$

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	15.55	0.0000	P	45.0
2	☐	1.000	0.912	125.56	0.0000	P	12.8
3	☐	50.000	54.821	6622.77	0.0008	P	3.7
4	☐	125.000	125.317	14967.15	0.0018	P	2.1
5	☐	250.000	256.624	29602.90	0.0037	P	1.0
6	☐	500.000	491.923	56667.08	0.0071	P	1.6
7	☐	1000.000	1002.102	109826.65	0.0144	P	9.1
8	☐			137.78	0.0000	P	12.0

$$y = 1.4363\text{E-}005 * x + 1.8692\text{E-}006$$

$$R = 0.9999$$

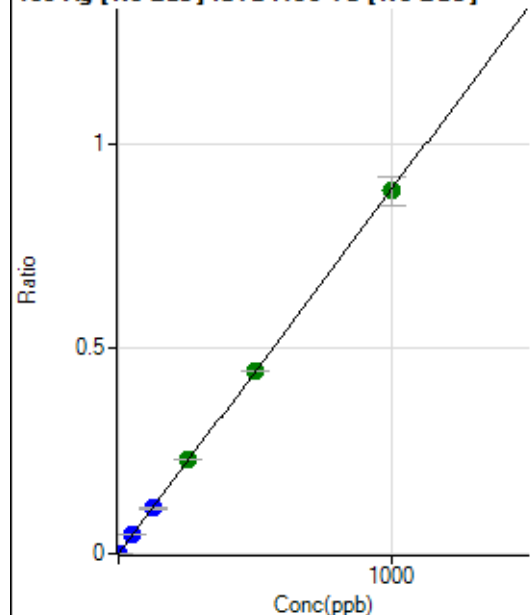
$$DL = 0.1756$$

$$BEC = 0.1301$$

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	17.78	0.0000	P	46.2
2	☐	1.000	0.989	7386.48	0.0009	P	2.8
3	☐	50.000	52.066	387661.56	0.0462	P	0.3
4	☐	125.000	124.856	920158.52	0.1108	P	2.0
5	☐	250.000	258.368	1840228.31	0.2293	A	1.2
6	☐	500.000	503.313	3581029.56	0.4466	A	0.3
7	☐	1000.000	996.166	6747315.59	0.8839	A	8.1
8	☐			690.03	0.0001	P	2.1

$$y = 8.8731\text{E-}004 * x + 2.1291\text{E-}006$$

$$R = 1.0000$$

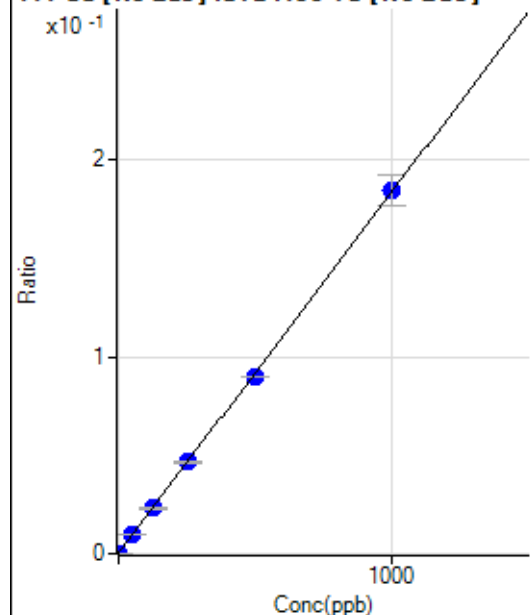
$$DL = 0.003326$$

$$BEC = 0.0024$$

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	1890.88	0.0002	P	2.6
2	☐	1.000	1.149	3675.81	0.0004	P	2.2
3	☐	50.000	52.285	82380.98	0.0098	P	2.0
4	☐	125.000	124.534	191613.09	0.0231	P	1.6
5	☐	250.000	252.702	373891.20	0.0466	P	1.5
6	☐	500.000	490.398	723074.24	0.0902	P	0.4
7	☐	1000.000	1004.069	1407153.38	0.1844	P	8.6
8	☐			2568.78	0.0003	P	3.9

$$y = 1.8342\text{E-}004 * x + 2.2713\text{E-}004$$

$$R = 0.9999$$

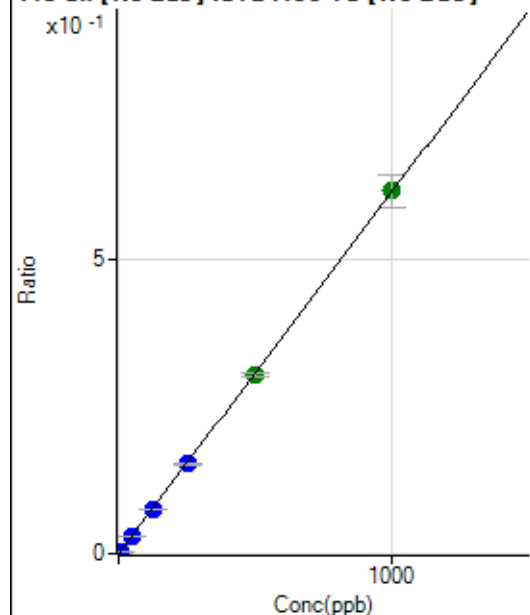
$$DL = 0.09711$$

$$BEC = 1.238$$

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	644.47	0.0001	P	7.8
2	☐	5.000	4.949	26202.97	0.0031	P	3.1
3	☐	50.000	50.135	259411.11	0.0309	P	0.3
4	☐	125.000	121.037	619038.18	0.0745	P	1.6
5	☐	250.000	248.019	1225233.38	0.1526	P	1.4
6	☐	500.000	494.147	2437856.80	0.3040	A	1.4
7	☐	1000.000	1003.911	4712729.93	0.6176	A	8.7
8	☐			3658.30	0.0005	P	3.7

$$y = 6.1511\text{E-}004 * x + 7.7435\text{E-}005$$

$$R = 1.0000$$

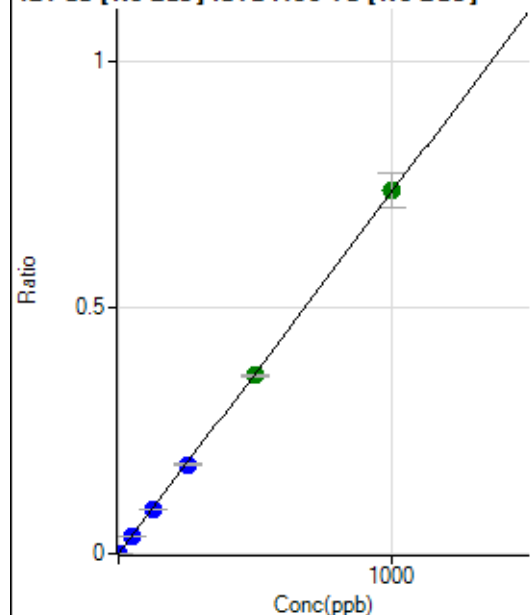
$$DL = 0.02946$$

$$BEC = 0.1259$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.11	0.0000	P	35.6
2	☐	2.000	1.945	12000.92	0.0014	P	3.1
3	☐	50.000	50.275	308991.43	0.0368	P	0.8
4	☐	125.000	120.722	734456.90	0.0884	P	1.2
5	☐	250.000	247.307	1453938.67	0.1811	P	1.1
6	☐	500.000	493.371	2897332.01	0.3613	A	1.4
7	☐	1000.000	1004.509	5611707.07	0.7357	A	9.5
8	☐			5268.85	0.0007	P	9.3

$$y = 7.3239\text{E-}004 * x + 4.9268\text{E-}006$$

$$R = 1.0000$$

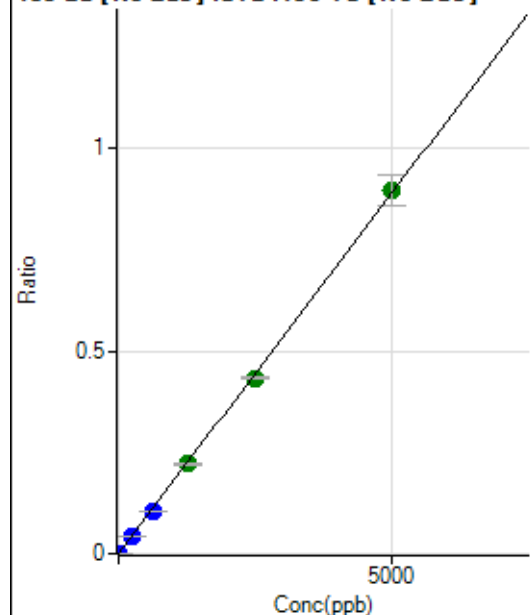
$$DL = 0.007182$$

$$BEC = 0.006727$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	73.33	0.0000	P	13.0
2	☐	10.000	9.545	14313.21	0.0017	P	0.9
3	☐	250.000	245.987	366850.58	0.0437	P	0.3
4	☐	625.000	593.914	876755.19	0.1055	P	1.1
5	☐	1250.000	1244.292	1775105.50	0.2211	A	2.2
6	☐	2500.000	2440.127	3476680.33	0.4336	A	1.8
7	☐	5000.000	5035.451	6829677.05	0.8948	A	8.3
8	☐			3791.68	0.0005	P	1.7

$$y = 1.7770\text{E-}004 * x + 8.8154\text{E-}006$$

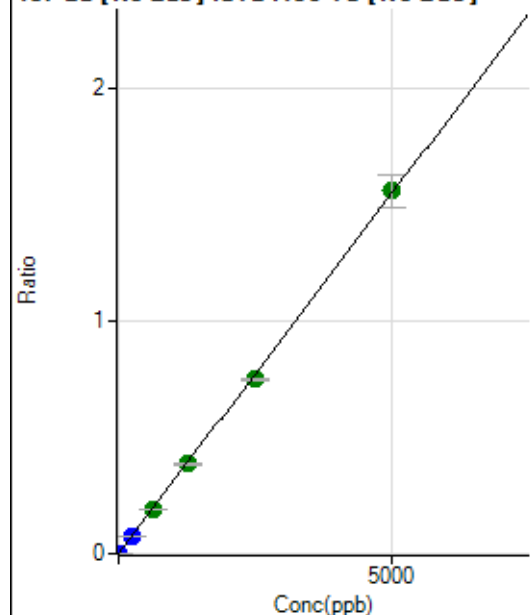
$$R = 0.9999$$

$$DL = 0.0193$$

$$BEC = 0.04961$$

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	58.89	0.0000	P	26.2
2	☐	10.000	9.799	25542.01	0.0030	P	2.9
3	☐	250.000	247.673	643777.10	0.0767	P	0.7
4	☐	625.000	608.162	1564887.32	0.1884	A	1.3
5	☐	1250.000	1246.819	3100537.83	0.3862	A	1.4
6	☐	2500.000	2421.506	6014076.30	0.7501	A	1.9
7	☐	5000.000	5042.264	11915276.76	1.5619	A	9.3
8	☐			6666.15	0.0008	P	3.3

$$y = 3.0977E-004 * x + 7.0834E-006$$

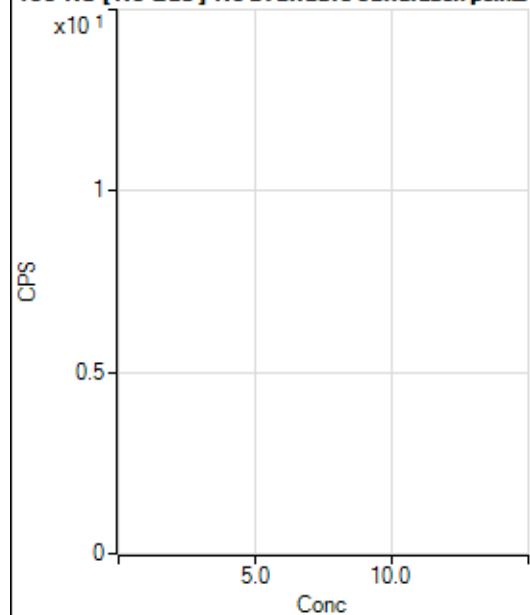
$$R = 0.9998$$

$$DL = 0.01801$$

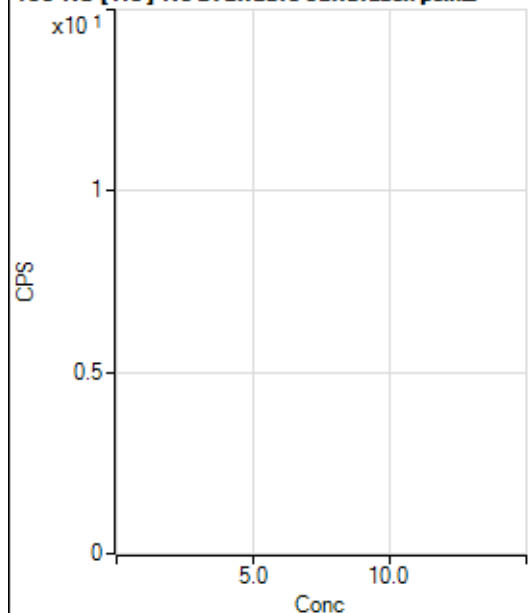
$$BEC = 0.02287$$

Weight: <None>

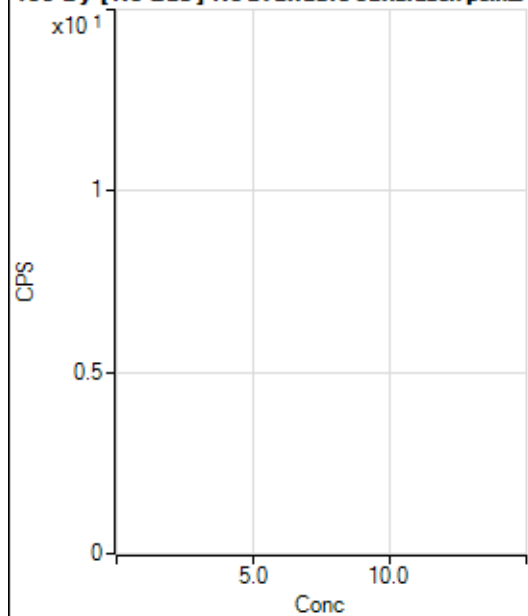
Min Conc: 0

150 Nd [No Gas] No available calibration points

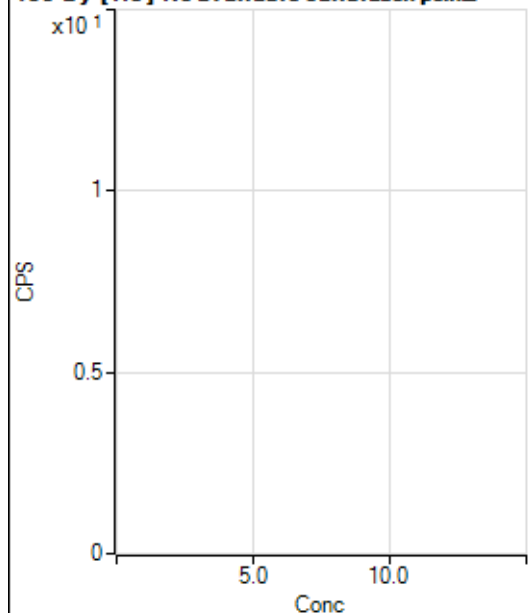
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			13.33		P	25.0
3	☐			24.44		P	56.8
4	☐			63.33		P	32.9
5	☐			100.00		P	32.8
6	☐			191.11		P	11.2
7	☐			424.45		P	2.4
8	☐			224.45		P	22.5

150 Nd [He] No available calibration points

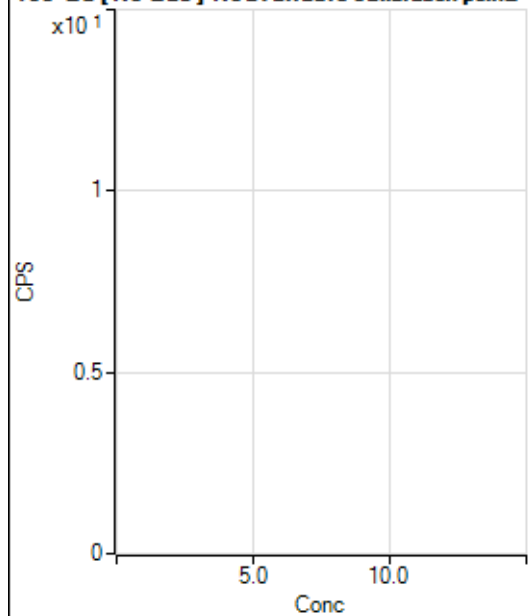
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			7.78		P	107.8
4	☐			7.78		P	24.7
5	☐			15.56		P	53.9
6	☐			26.67		P	33.1
7	☐			70.00		P	33.3
8	☐			57.78		P	21.8

156 Dy [No Gas] No available calibration points

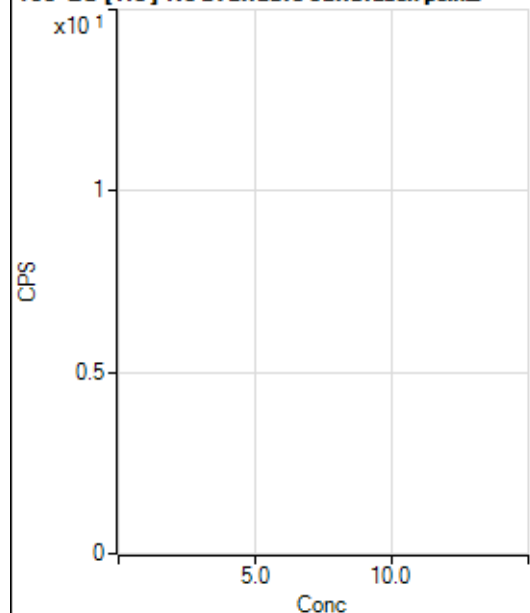
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			13.33		P	50.0
3	☐			25.55		P	15.1
4	☐			56.67		P	25.6
5	☐			117.78		P	27.9
6	☐			210.00		P	14.1
7	☐			395.56		P	4.9
8	☐			1355.63		P	9.2

156 Dy [He] No available calibration points

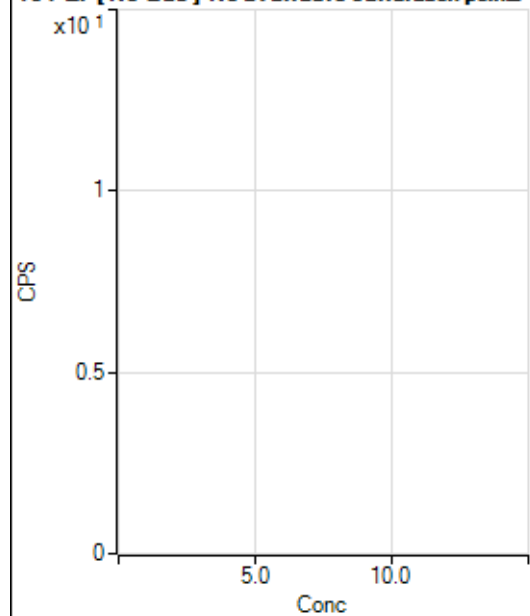
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.45		P	86.6
3	☐			4.44		P	43.4
4	☐			30.00		P	61.9
5	☐			52.22		P	48.3
6	☐			104.45		P	16.1
7	☐			173.34		P	6.9
8	☐			644.47		P	6.5

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

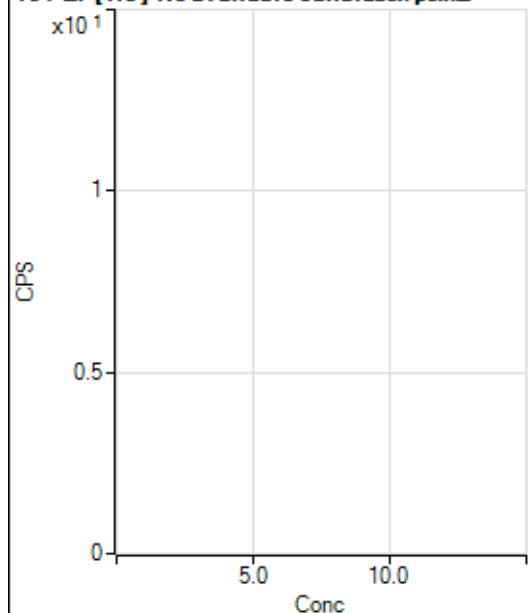
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			64.44		P	23.3
2	☐			61.11		P	27.5
3	☐			74.44		P	15.7
4	☐			96.67		P	18.2
5	☐			147.78		P	4.7
6	☐			232.23		P	13.8
7	☐			424.46		P	8.7
8	☐			1437.87		P	1.5

160 Gd [He] No available calibration points

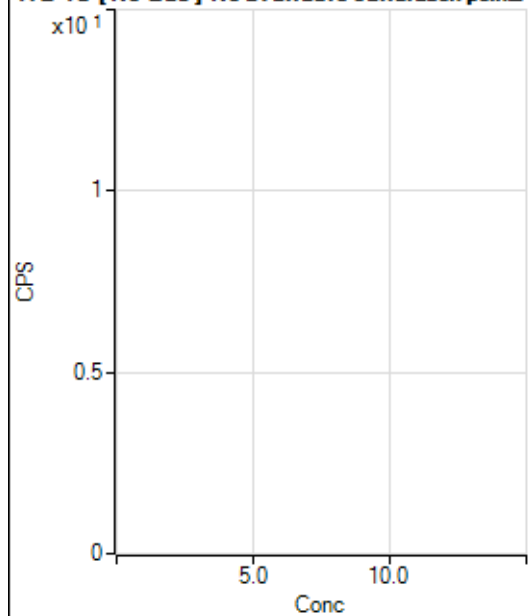
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.00		P	3.7
2	☐			94.45		P	18.1
3	☐			110.00		P	10.9
4	☐			111.11		P	11.4
5	☐			115.56		P	18.8
6	☐			166.67		P	8.7
7	☐			261.12		P	9.6
8	☐			858.93		P	7.7

164 Er [No Gas] No available calibration points

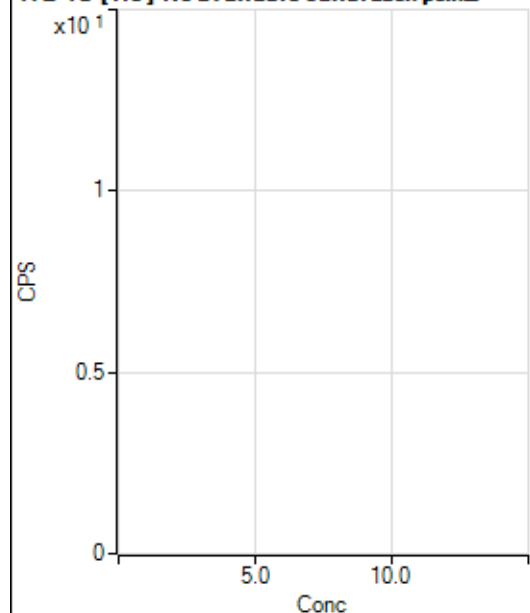
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	15.7
2	☐			72.22		P	7.0
3	☐			52.22		P	18.4
4	☐			82.22		P	10.2
5	☐			88.89		P	25.0
6	☐			146.67		P	9.9
7	☐			191.12		P	7.0
8	☐			242.23		P	12.7

164 Er [He] No available calibration points

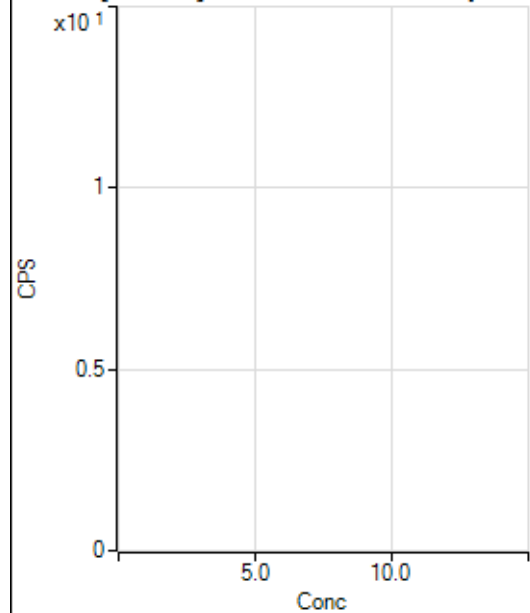
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	30.1
2	☐			25.56		P	45.8
3	☐			24.44		P	56.8
4	☐			32.22		P	31.6
5	☐			40.00		P	68.2
6	☐			48.89		P	27.6
7	☐			75.56		P	13.5
8	☐			77.78		P	9.9

172 Yb [No Gas] No available calibration points

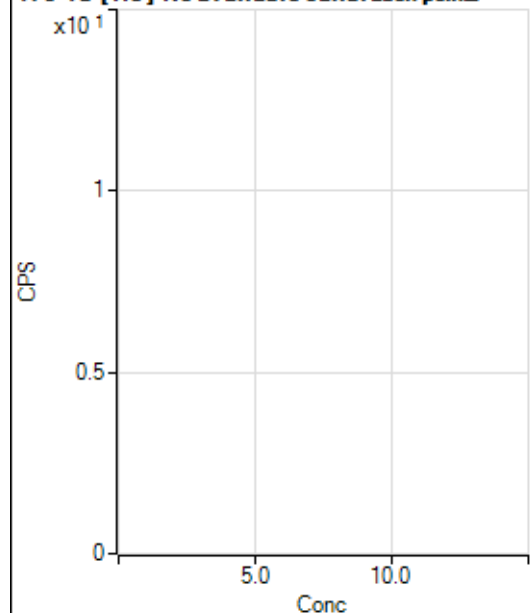
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	43.5
2	☐			47.78		P	31.5
3	☐			54.44		P	23.2
4	☐			84.45		P	26.3
5	☐			83.33		P	17.4
6	☐			93.34		P	24.7
7	☐			162.23		P	20.8
8	☐			174.45		P	7.7

172 Yb [He] No available calibration points

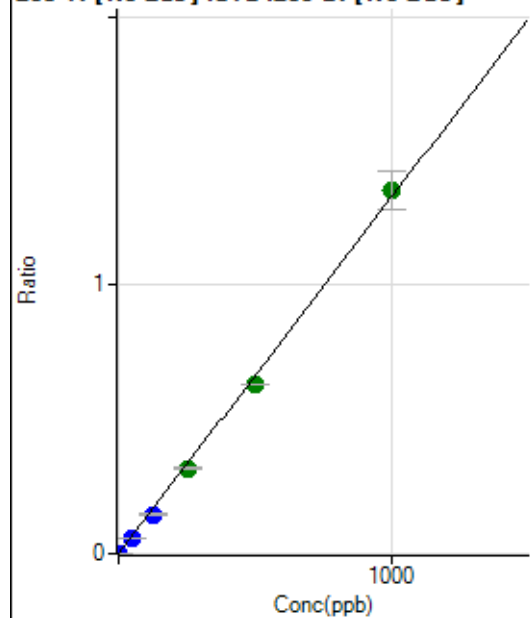
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.45		P	28.4
2	☐			22.22		P	45.8
3	☐			31.11		P	43.3
4	☐			38.89		P	30.1
5	☐			45.56		P	4.2
6	☐			46.66		P	32.7
7	☐			61.11		P	25.8
8	☐			87.78		P	7.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			966.71		P	5.4
2	☐			977.83		P	7.3
3	☐			2495.82		P	5.6
4	☐			4489.70		P	2.1
5	☐			7958.02		P	1.3
6	☐			15330.12		P	2.0
7	☐			29198.95		P	1.1
8	☐			956.72		P	8.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8469.49		P	3.8
2	☐			8629.58		P	0.4
3	☐			8901.96		P	3.6
4	☐			9336.71		P	1.3
5	☐			10848.97		P	3.5
6	☐			13565.95		P	1.2
7	☐			18869.12		P	1.5
8	☐			8302.68		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	180.00	0.0000	P	9.5
2	☐	1.000	0.862	6867.42	0.0012	P	3.0
3	☐	50.000	44.995	345520.04	0.0598	P	0.3
4	☐	125.000	110.047	843259.57	0.1462	P	2.1
5	☐	250.000	239.412	1759749.45	0.3181	A	2.8
6	☐	500.000	474.188	3514130.19	0.6300	A	0.7
7	☐	1000.000	1017.673	6783219.48	1.3520	A	10.8
8	☐			2324.68	0.0005	P	5.9

$$y = 0.0013 * x + 3.0891E-005$$

$$R = 0.9994$$

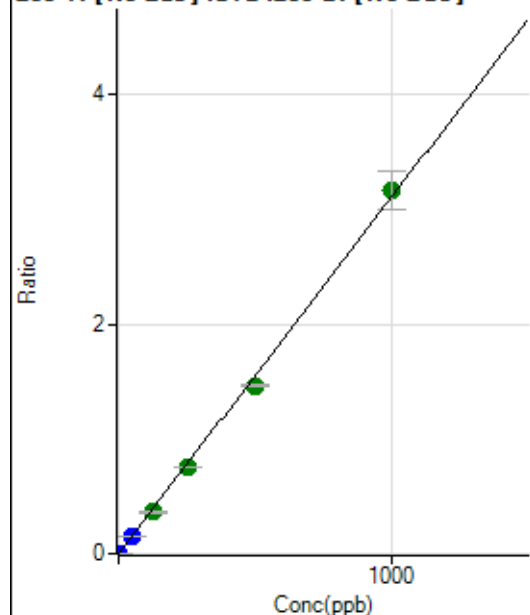
$$DL = 0.006623$$

$$BEC = 0.02325$$

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	367.79	0.0001	P	2.1
2	☐	1.000	0.886	16434.99	0.0028	P	2.1
3	☐	50.000	46.463	834380.44	0.1444	P	1.6
4	☐	125.000	117.028	2096899.12	0.3637	A	2.9
5	☐	250.000	242.479	4168642.58	0.7535	A	1.8
6	☐	500.000	470.186	8149730.30	1.4610	A	1.3
7	☐	1000.000	1017.961	15872084.90	3.1631	A	10.5
8	☐			5403.41	0.0011	P	1.5

$$y = 0.0031 * x + 6.3096E-005$$

$$R = 0.9993$$

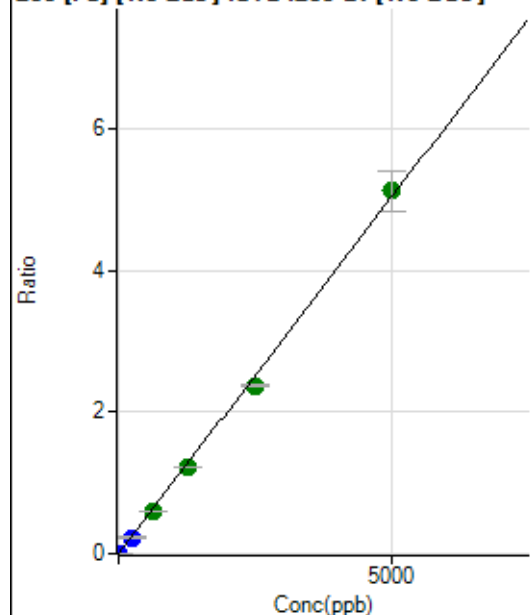
$$DL = 0.001261$$

$$BEC = 0.02031$$

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	367.79	0.0001	P	1.8
2	☐	1.000	0.928	5829.14	0.0010	P	1.4
3	☐	250.000	229.098	1333859.04	0.2309	P	0.6
4	☐	625.000	589.914	3427753.53	0.5944	A	2.0
5	☐	1250.000	1213.532	6764769.69	1.2227	A	1.0
6	☐	2500.000	2352.258	13219877.44	2.3700	A	1.2
7	☐	5000.000	5088.419	25713036.84	5.1267	A	11.3
8	☐			15679.59	0.0031	P	2.9

$$y = 0.0010 * x + 6.3108E-005$$

$$R = 0.9993$$

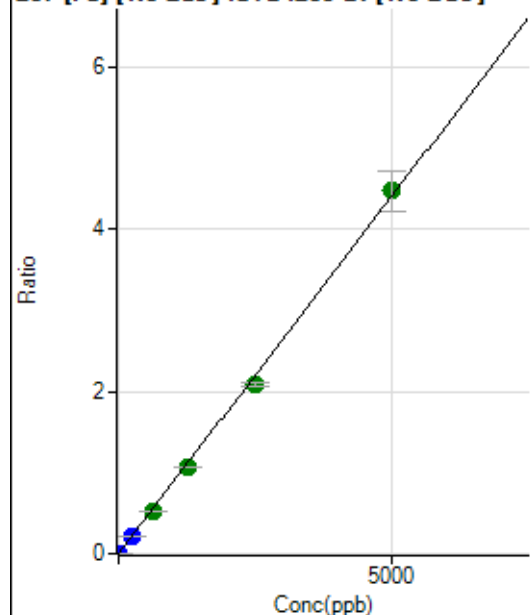
$$DL = 0.003467$$

$$BEC = 0.06264$$

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	317.79	0.0001	P	6.8
2	☐	1.000	0.939	5148.86	0.0009	P	2.5
3	☐	250.000	230.620	1174449.41	0.2033	P	0.6
4	☐	625.000	589.581	2996682.49	0.5196	A	1.9
5	☐	1250.000	1208.673	5893305.61	1.0652	A	1.1
6	☐	2500.000	2370.838	11654657.60	2.0894	A	1.3
7	☐	5000.000	5080.309	22459459.94	4.4772	A	10.9
8	☐			13242.45	0.0027	P	3.5

$$y = 8.8127E-004 * x + 5.4549E-005$$

$$R = 0.9995$$

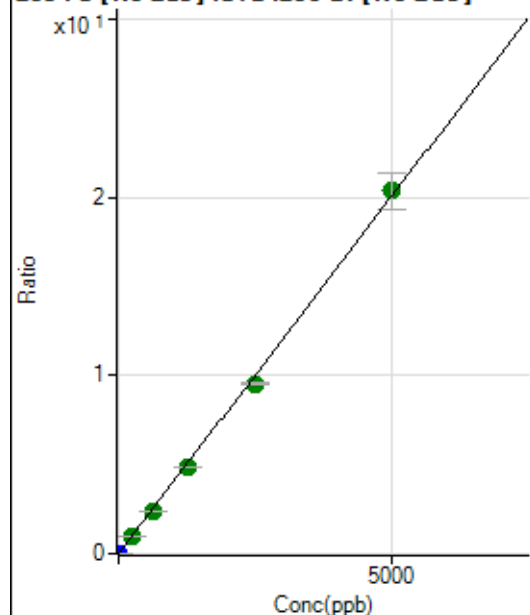
$$DL = 0.01258$$

$$BEC = 0.0619$$

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	1370.04	0.0002	P	4.2
2	☐	1.000	0.938	23364.02	0.0040	P	1.2
3	☐	250.000	238.283	5527204.69	0.9568	A	1.5
4	☐	625.000	586.865	13585466.05	2.3561	A	2.5
5	☐	1250.000	1208.839	26849184.67	4.8529	A	1.2
6	☐	2500.000	2373.164	53141335.46	9.5269	A	1.2
7	☐	5000.000	5079.061	102323631.5	20.3893	A	10.2
8	☐			61769.27	0.0124	P	3.0

$$y = 0.0040 * x + 2.3505E-004$$

$$R = 0.9995$$

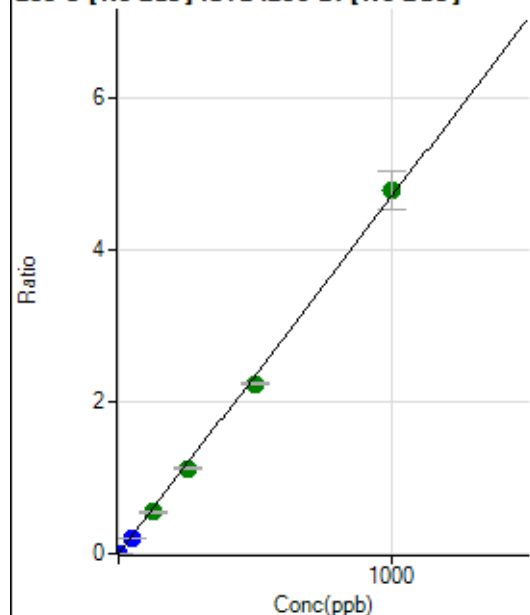
$$DL = 0.007341$$

$$BEC = 0.05855$$

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	84.44	0.0000	P	20.3
2	☐	1.000	0.839	23083.26	0.0040	P	1.7
3	☐	50.000	44.843	1216416.41	0.2106	P	0.1
4	☐	125.000	116.482	3153239.26	0.5469	A	2.7
5	☐	250.000	239.428	6219304.63	1.1241	A	1.9
6	☐	500.000	475.335	12448486.62	2.2317	A	0.8
7	☐	1000.000	1016.298	23940536.59	4.7715	A	10.6
8	☐			3164.88	0.0006	P	8.4

$$y = 0.0047 * x + 1.4454E-005$$

$$R = 0.9995$$

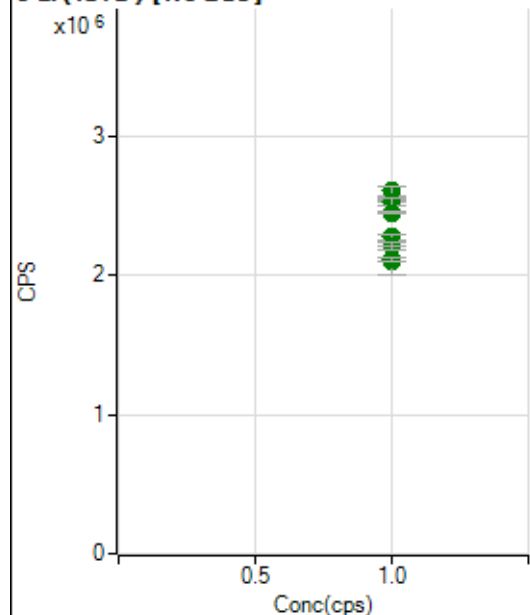
$$DL = 0.001875$$

$$BEC = 0.003079$$

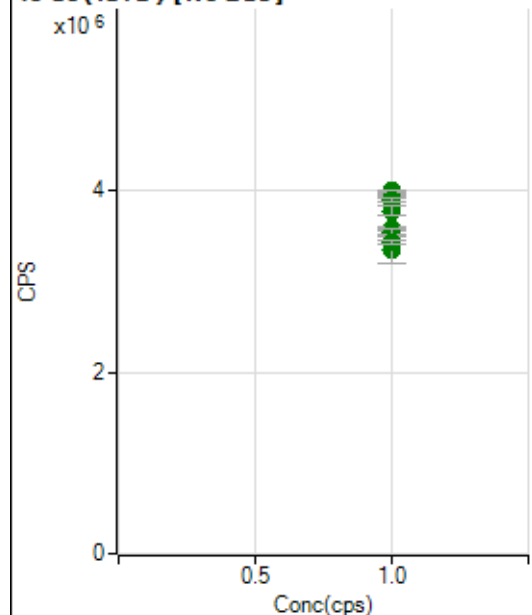
Weight: <None>

Min Conc: 0

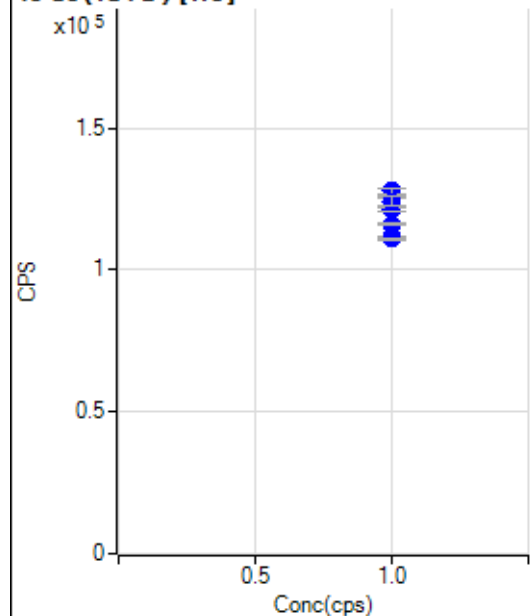
6 Li (ISTD) [No Gas]



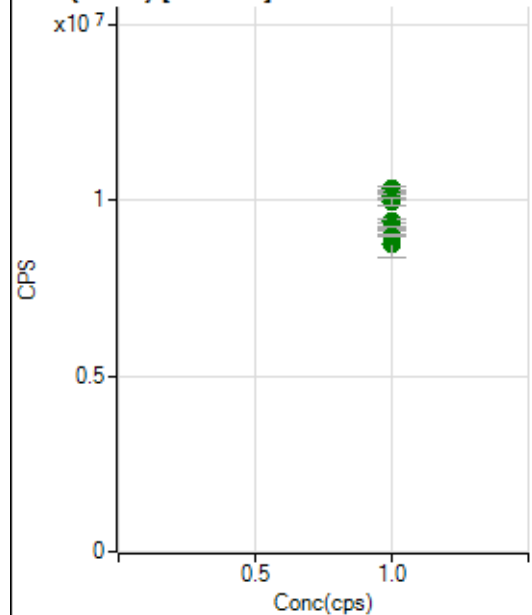
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2534585.24		A	0.5
2	☐	1.000		2604499.83		A	2.5
3	☐	1.000		2526019.41		A	2.4
4	☐	1.000		2449476.03		A	1.0
5	☐	1.000		2270959.65		A	2.1
6	☐	1.000		2209360.55		A	2.4
7	☐	1.000		2103565.34		A	9.6
8	☐	1.000		2110465.36		A	1.2

45 Sc (ISTD) [No Gas]

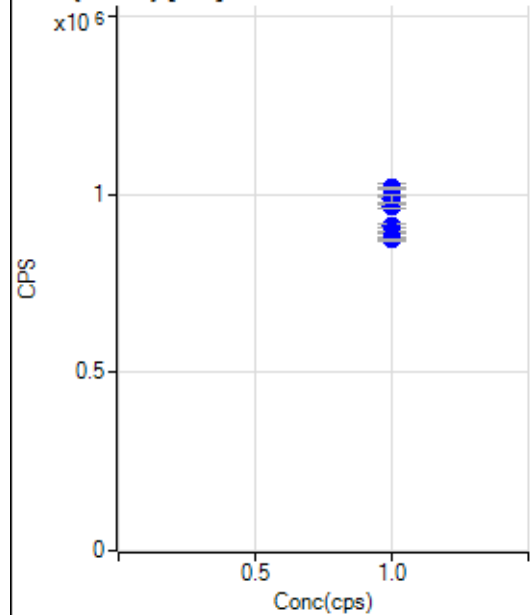
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3951295.08		A	0.9
2	☐	1.000		3993553.59		A	0.5
3	☐	1.000		3901270.67		A	1.1
4	☐	1.000		3775435.46		A	2.4
5	☐	1.000		3569377.86		A	1.3
6	☐	1.000		3534468.80		A	2.8
7	☐	1.000		3352990.68		A	9.4
8	☐	1.000		3422696.34		A	1.4

45 Sc (ISTD) [He]

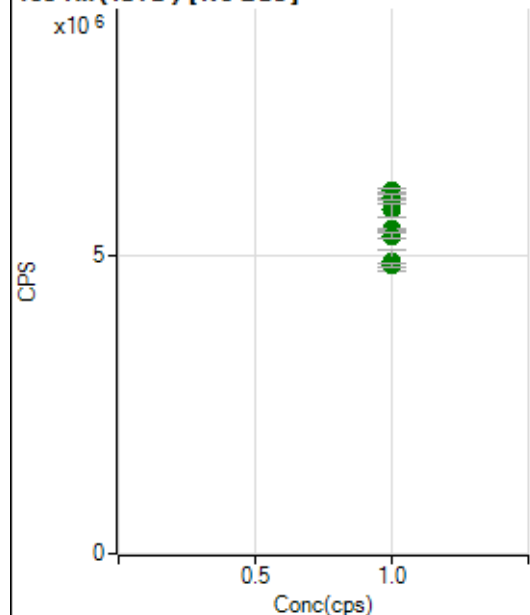
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		127071.80		P	2.9
2	☐	1.000		127881.86		P	1.3
3	☐	1.000		121365.83		P	0.7
4	☐	1.000		116223.61		P	0.8
5	☐	1.000		111667.74		P	0.5
6	☐	1.000		110903.01		P	0.3
7	☐	1.000		110872.37		P	0.7
8	☐	1.000		124094.13		P	2.7

89 Y (ISTD) [No Gas]

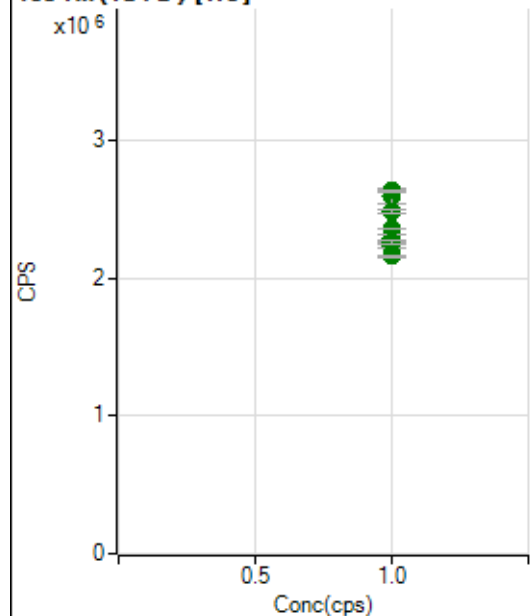
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10237521.79		A	0.5
2	☐	1.000		10326116.72		A	0.9
3	☐	1.000		10104235.20		A	1.7
4	☐	1.000		9954868.95		A	2.6
5	☐	1.000		9415373.89		A	0.8
6	☐	1.000		9237384.45		A	0.6
7	☐	1.000		8757290.43		A	8.3
8	☐	1.000		8978749.52		A	0.6

89 Y (ISTD) [He]

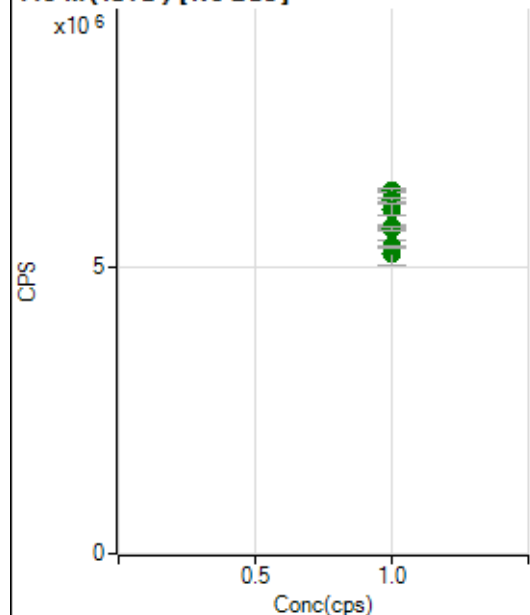
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1011990.26		P	3.9
2	☐	1.000		1017467.93		P	0.6
3	☐	1.000		966749.79		P	1.0
4	☐	1.000		911895.07		P	0.8
5	☐	1.000		892784.74		P	0.4
6	☐	1.000		879264.53		P	0.5
7	☐	1.000		871336.91		P	0.6
8	☐	1.000		986855.76		P	1.7

103 Rh (ISTD) [No Gas]

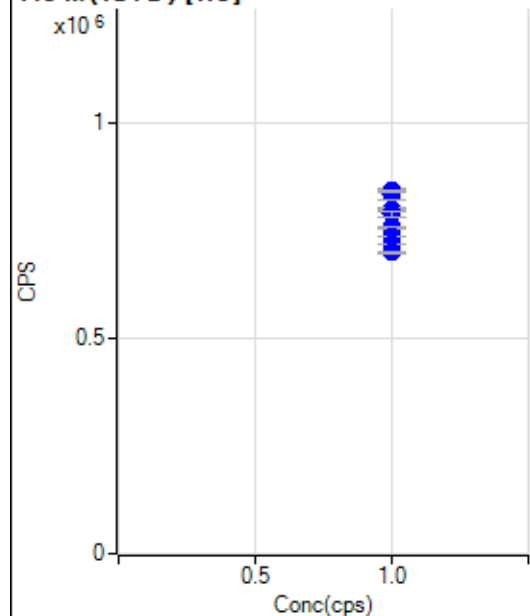
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5947501.72		A	0.7
2	☐	1.000		6071292.76		A	0.9
3	☐	1.000		5963171.65		A	1.5
4	☐	1.000		5747352.76		A	3.6
5	☐	1.000		5423899.61		A	0.9
6	☐	1.000		5323877.39		A	1.7
7	☐	1.000		4902962.36		A	7.2
8	☐	1.000		4841052.39		A	1.3

103 Rh (ISTD) [He]

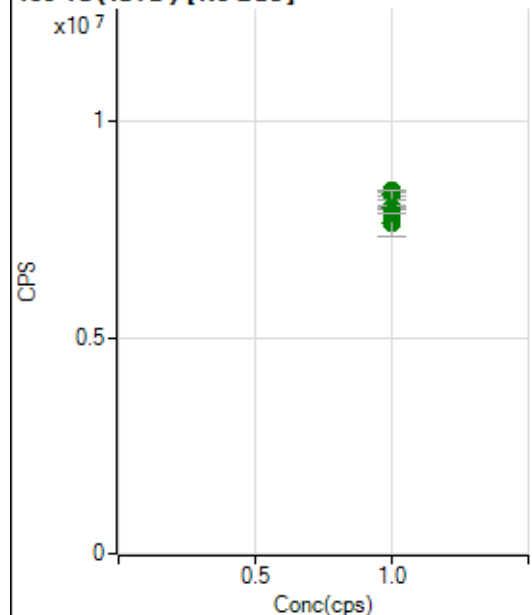
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2589510.83		A	4.2
2	☐	1.000		2631395.05		A	0.4
3	☐	1.000		2484505.69		A	0.9
4	☐	1.000		2358607.98		A	0.3
5	☐	1.000		2288920.66		A	2.1
6	☐	1.000		2225565.63		A	1.3
7	☐	1.000		2156113.46		A	0.8
8	☐	1.000		2259221.23		A	0.8

115 In (ISTD) [No Gas]

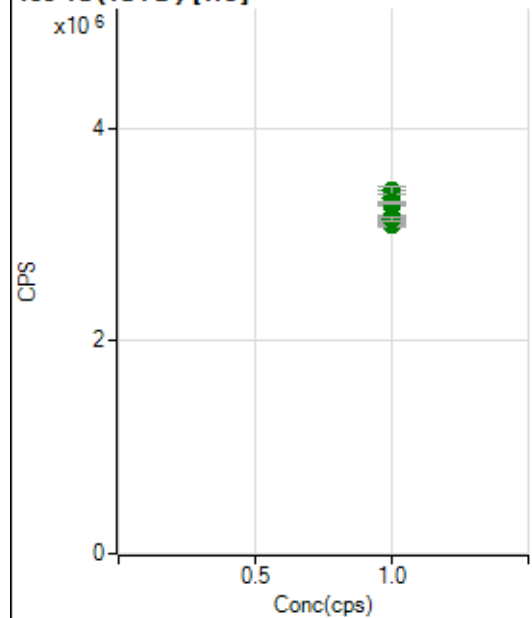
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6306087.30		A	0.3
2	☐	1.000		6319874.83		A	1.1
3	☐	1.000		6166701.39		A	1.2
4	☐	1.000		6003012.75		A	3.2
5	☐	1.000		5689414.55		A	1.4
6	☐	1.000		5665653.27		A	1.3
7	☐	1.000		5236921.86		A	8.4
8	☐	1.000		5349372.41		A	0.7

115 In (ISTD) [He]

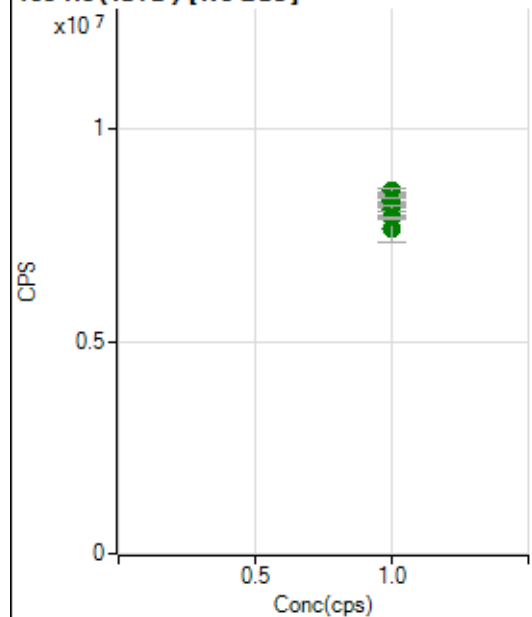
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		836174.29		P	3.4
2	☐	1.000		843168.96		P	0.9
3	☐	1.000		801638.72		P	0.3
4	☐	1.000		757541.74		P	0.9
5	☐	1.000		736993.22		P	0.2
6	☐	1.000		720345.59		P	0.3
7	☐	1.000		700727.90		P	0.8
8	☐	1.000		789850.92		P	1.7

159 Tb (ISTD) [No Gas]

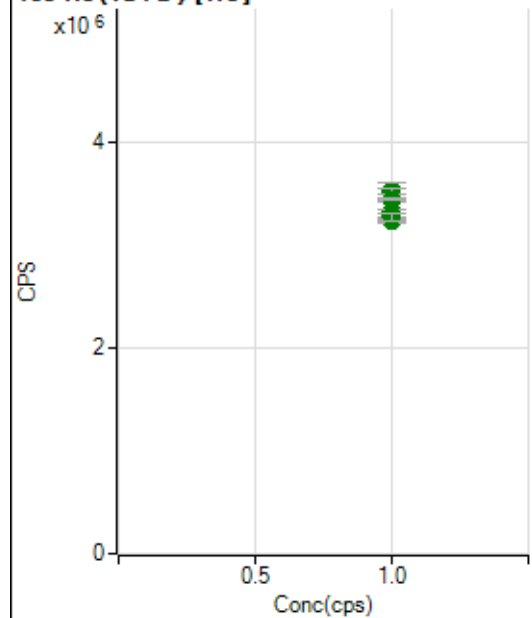
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8326108.35		A	1.0
2	☐	1.000		8395531.54		A	0.8
3	☐	1.000		8390635.78		A	0.9
4	☐	1.000		8308048.42		A	2.4
5	☐	1.000		8027394.12		A	0.6
6	☐	1.000		8018623.98		A	1.0
7	☐	1.000		7665905.16		A	7.9
8	☐	1.000		7880563.42		A	0.4

159 Tb (ISTD) [He]

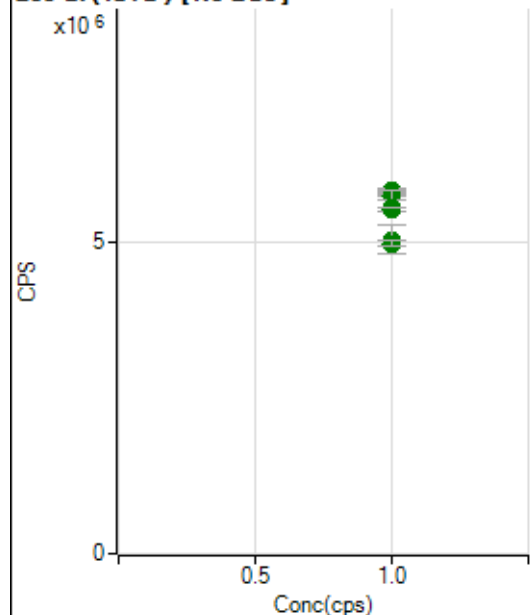
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3346658.67		A	3.9
2	☐	1.000		3411137.00		A	2.0
3	☐	1.000		3278500.33		A	0.6
4	☐	1.000		3164343.36		A	0.8
5	☐	1.000		3124859.54		A	0.6
6	☐	1.000		3089585.09		A	0.7
7	☐	1.000		3139914.64		A	1.0
8	☐	1.000		3302223.42		A	0.8

165 Ho (ISTD) [No Gas]

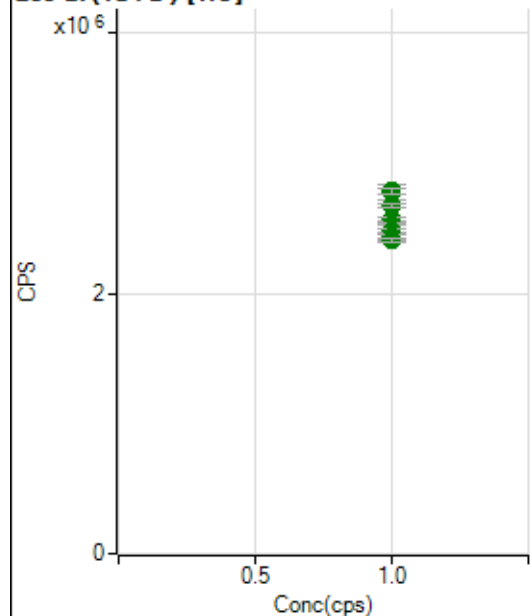
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8475262.65		A	0.7
2	☐	1.000		8551885.92		A	1.8
3	☐	1.000		8357333.97		A	2.0
4	☐	1.000		8315618.56		A	1.8
5	☐	1.000		8167049.11		A	0.3
6	☐	1.000		8129404.74		A	1.3
7	☐	1.000		7646927.73		A	8.5
8	☐	1.000		7912250.30		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3528711.44		A	4.5
2	☐	1.000		3525423.52		A	1.4
3	☐	1.000		3432640.54		A	0.5
4	☐	1.000		3331311.51		A	1.1
5	☐	1.000		3288826.83		A	1.2
6	☐	1.000		3238688.73		A	1.0
7	☐	1.000		3273710.92		A	1.8
8	☐	1.000		3448372.28		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5828776.16		A	1.7
2	☐	1.000		5838314.01		A	1.1
3	☐	1.000		5777315.19		A	0.8
4	☐	1.000		5768963.11		A	3.1
5	☐	1.000		5532805.54		A	1.0
6	☐	1.000		5577960.26		A	0.2
7	☐	1.000		5049454.47		A	9.0
8	☐	1.000		4989869.34		A	1.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2777249.02		A	4.7
2	☐	1.000		2786401.77		A	1.5
3	☐	1.000		2676497.62		A	1.1
4	☐	1.000		2575581.30		A	1.2
5	☐	1.000		2530870.08		A	1.0
6	☐	1.000		2486149.13		A	1.0
7	☐	1.000		2430167.20		A	1.9
8	☐	1.000		2403889.51		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020624 MS.b

Acq. Date-Time 2024-02-06 10:59:48

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		7589	75888.83			0.772	5.000
24		68657	686572.89			1.787	5.000
25		8995	89950.83			0.522	5.000
26		10514	105135.30			0.909	5.000
59		52684	526843.59			0.404	5.000
113		6098	60982.94			1.049	5.000
115		78145	781446.37			1.682	5.000
206		20914	209137.64			0.731	5.000
207		19011	190105.96			0.657	5.000
208		45549	455494.40			1.080	5.000
220		0	1.70			44.605	

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

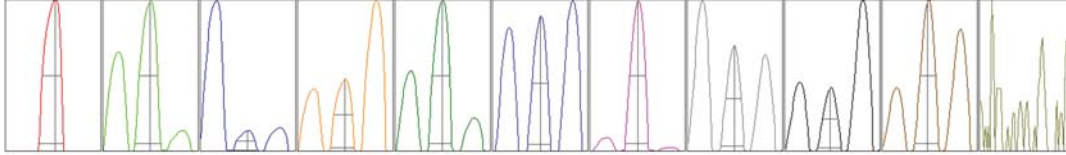
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7657	7623	7566	7596	7502
24	70189	68559	68583	69148	66808
25	9068	8947	8988	9009	8964
26	10591	10556	10551	10521	10349
59	52939	52743	52657	52729	52353
113	6156	6126	6136	6076	5997
115	79881	79113	77457	77613	76660
206	20737	20890	21062	21078	20801
207	18913	19132	19003	19140	18865
208	45092	46087	45351	46068	45149

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	13359.09	9.10	8.90 - 9.10	
24	123193.44	24.00	23.90 - 24.10	
25	16457.92	25.00	24.90 - 25.10	
26	19180.77	26.00	25.90 - 26.10	
59	100508.89	59.00	58.90 - 59.10	
113	12844.17	113.05	112.90 - 113.10	
115	161527.82	115.05	114.90 - 115.10	
206	43327.24	206.00	205.90 - 206.10	
207	39487.80	206.95	206.90 - 207.10	
208	93580.94	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.775	0.900	
24	0.58	0.814	0.900	
25	0.58	0.755	0.900	
26	0.58	0.747	0.900	
59	0.54	0.734	0.900	
113	0.49	0.720	0.900	
115	0.50	0.719	0.900	
206	0.49	0.735	0.900	
207	0.49	0.754	0.900	
208	0.49	0.767	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	10.4 V	Deflect	13.8 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	140 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.8 mm
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EM

Discriminator	4.7 mV	Analog HV	2304 V	Pulse HV	1690 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11301	113012.82			4.549	
89		8207	82069.77			4.720	
205		14413	144128.74			4.542	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11515	11524	11483	11599	10385
89	8376	8364	8357	8423	7516
205	14788	14578	14647	14798	13254

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	10.4 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.8 mm
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EM

Discriminator	4.7 mV	Analog HV	2304 V	Pulse HV	1690 V
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