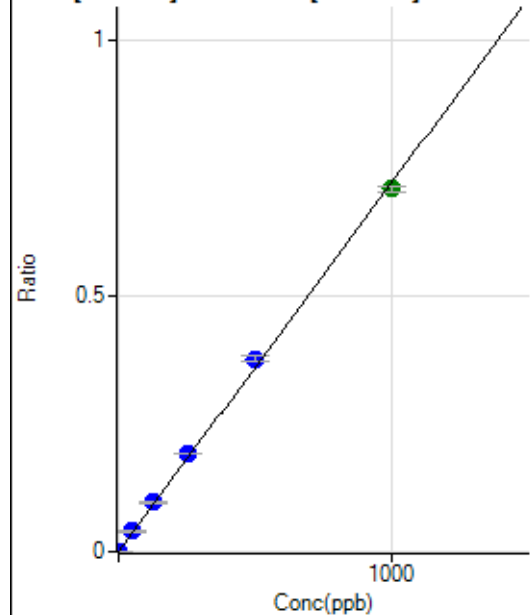


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7042623 MS.b\
 Analysis File: P7042623 MS.batch.bin
 DA Date-Time: 2023-04-26 17:33:13
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-04-26 08:09:36
2	006CALS.d	S02	2023-04-26 08:16:09
3	007CALS.d	S03	2023-04-26 08:19:25
4	008CALS.d	S04	2023-04-26 08:22:34
5	009CALS.d	S05	2023-04-26 08:25:32
6	010CALS.d	S06	2023-04-26 08:28:25
7	011CALS.d	S07	2023-04-26 08:31:10
8	012CALS.d	S08	2023-04-26 08:33:58

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	52.8
2	☐	1.000	1.173	1306.74	0.0009	P	1.4
3	☐	50.000	55.137	60524.02	0.0397	P	2.8
4	☐	125.000	133.466	146990.03	0.0961	P	1.9
5	☐	250.000	264.937	287335.14	0.1908	P	0.7
6	☐	500.000	521.893	560827.96	0.3759	P	3.0
7	☐	1000.000	984.004	1053477.20	0.7087	A	1.9
8	☐			508.90	0.0004	P	24.5

$$y = 7.2019\text{E-}004 * x + 1.5546\text{E-}005$$

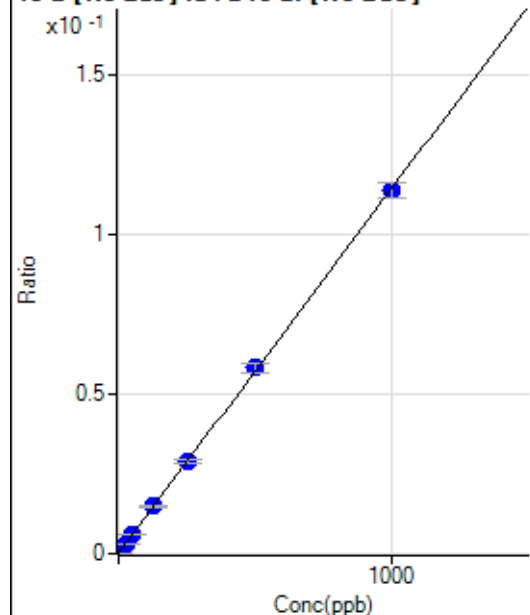
$$R = 0.9995$$

$$DL = 0.03419$$

$$BEC = 0.02159$$

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	182.23	0.0001	P	7.5
2	☐	25.000	24.294	4394.00	0.0029	P	8.3
3	☐	50.000	51.684	9175.01	0.0060	P	3.8
4	☐	125.000	128.190	22564.27	0.0148	P	3.7
5	☐	250.000	253.461	43779.49	0.0291	P	3.3
6	☐	500.000	509.278	86939.57	0.0583	P	4.9
7	☐	1000.000	994.031	168877.26	0.1136	P	4.3
8	☐			4511.81	0.0034	P	14.3

$$y = 1.1419\text{E-}004 * x + 1.2097\text{E-}004$$

$$R = 0.9999$$

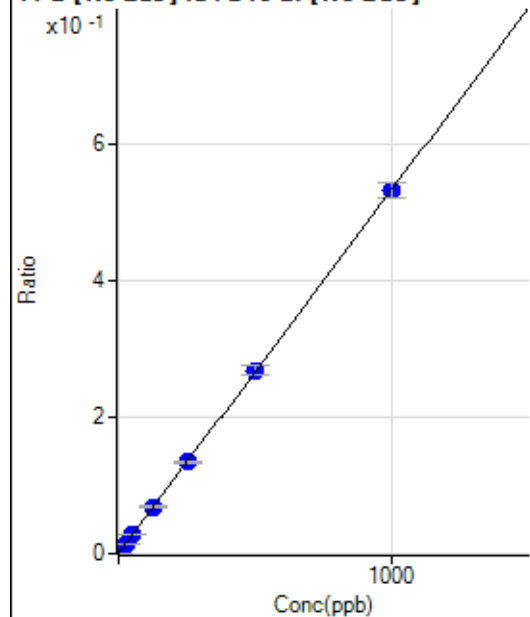
$$DL = 0.2373$$

$$BEC = 1.059$$

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	763.36	0.0005	P	1.8
2	☐	25.000	24.437	20486.96	0.0135	P	3.7
3	☐	50.000	51.992	42855.76	0.0281	P	6.7
4	☐	125.000	126.546	103620.19	0.0678	P	4.1
5	☐	250.000	251.026	201714.53	0.1339	P	2.2
6	☐	500.000	503.949	400358.94	0.2684	P	5.1
7	☐	1000.000	997.490	788691.91	0.5307	P	4.4
8	☐			20254.60	0.0152	P	16.0

$$y = 5.3152\text{E-}004 * x + 5.0653\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.0522$$

$$BEC = 0.953$$

Weight: <None>

Min Conc: 0

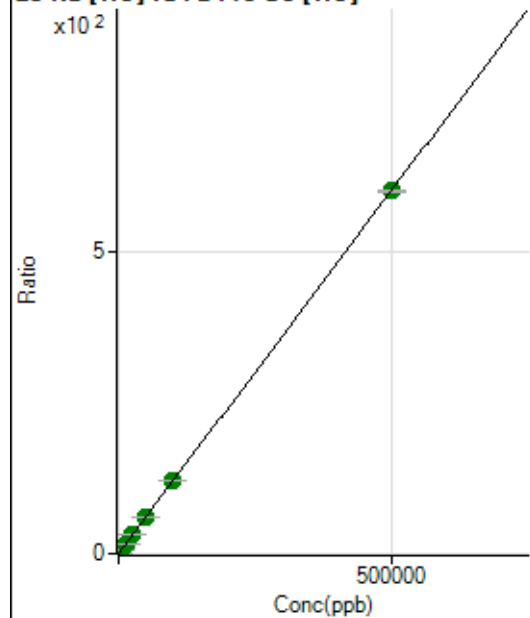
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7684.20	0.0219	P	1.8
2	☐	500.000	537.015	236192.44	0.6687	P	0.5
3	☐	5000.000	5260.692	2197433.65	6.3577	A	1.5
4	☐	12500.000	12841.160	5184109.54	15.4874	A	0.3
5	☐	25000.000	25752.826	10321397.83	31.0379	A	0.5
6	☐	50000.000	51360.954	20615550.67	61.8795	A	0.5
7	☐	100000.00	101562.95	40707143.28	122.3414	A	0.6
8	☐	500000.00	499502.49	177527248.4	601.6081	A	0.3

$$y = 0.0012 * x + 0.0219$$

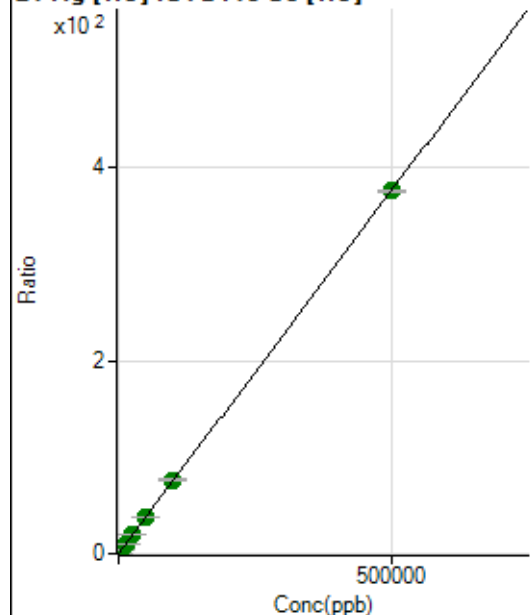
$$R = 1.0000$$

$$DL = 0.9988$$

$$BEC = 18.19$$

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	247.78	0.0007	P	3.1
2	☐	500.000	533.205	142069.66	0.4022	P	0.2
3	☐	5000.000	5293.484	1377906.99	3.9867	A	1.1
4	☐	12500.000	12957.783	3266197.84	9.7578	A	1.2
5	☐	25000.000	25903.738	6486351.43	19.5061	A	1.2
6	☐	50000.000	51242.922	12855278.14	38.5863	A	0.5
7	☐	100000.00	101255.86	25367723.51	76.2458	A	1.9
8	☐	500000.00	499564.93	111002230.5	376.1704	A	0.5

$$y = 7.5299\text{E-}004 * x + 7.0625\text{E-}004$$

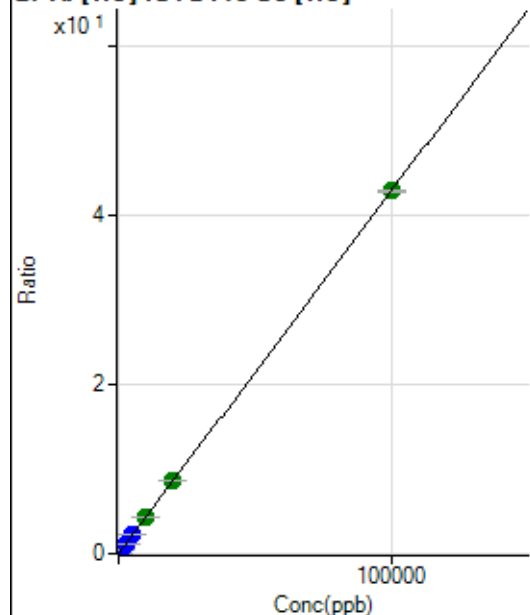
$$R = 1.0000$$

$$DL = 0.08736$$

$$BEC = 0.9379$$

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	65.56	0.0002	P	12.3
2	☐	20.000	21.924	3391.52	0.0096	P	2.7
3	☐	1000.000	1075.589	159715.10	0.4621	P	0.6
4	☐	2500.000	2626.906	377680.83	1.1283	P	0.3
5	☐	5000.000	5235.164	747699.26	2.2484	P	0.1
6	☐	10000.000	9937.988	1421968.59	4.2681	A	1.6
7	☐	20000.000	20085.863	2870170.44	8.6261	A	0.7
8	☐	100000.00	99973.341	12669310.79	42.9339	A	0.7

$$y = 4.2945\text{E-}004 * x + 1.8680\text{E-}004$$

$$R = 1.0000$$

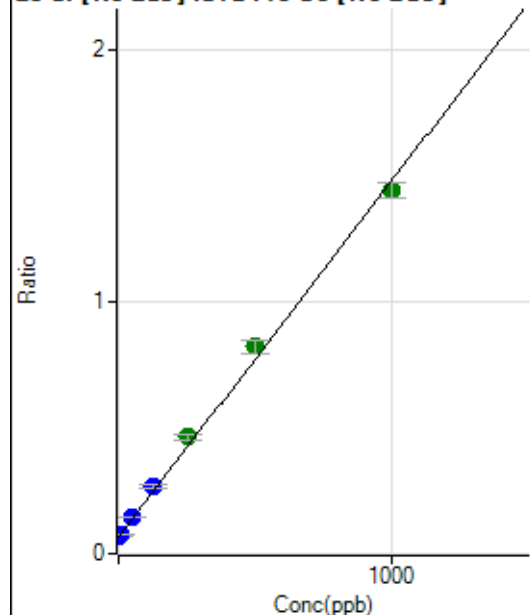
$$DL = 0.1601$$

$$BEC = 0.435$$

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	267352.90	0.0665	P	0.5
2	☐	10.000	4.688	298543.36	0.0731	P	0.3
3	☐	50.000	55.536	576610.87	0.1448	P	2.9
4	☐	125.000	141.272	1054233.46	0.2657	P	4.3
5	☐	250.000	280.545	1804526.19	0.4621	A	5.9
6	☐	500.000	535.159	3230947.90	0.8211	A	6.2
7	☐	1000.000	972.527	5697496.72	1.4378	A	4.2
8	☐			669606.68	0.1883	P	4.4

$$y = 0.0014 * x + 0.0665$$

$$R = 0.9984$$

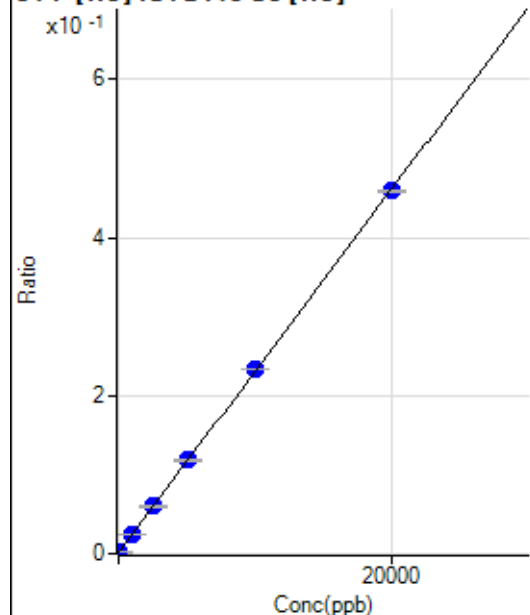
$$DL = 0.7244$$

$$BEC = 47.15$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-8.473	374.46	0.0011	P	2.1
2	☐	0.000	8.473	514.46	0.0015	P	8.4
3	☐	1000.000	1042.208	8714.78	0.0252	P	2.0
4	☐	2500.000	2550.353	20042.08	0.0599	P	2.6
5	☐	5000.000	5091.065	39330.39	0.1183	P	1.0
6	☐	10000.000	10106.842	77805.04	0.2335	P	0.8
7	☐	20000.000	19915.409	152713.94	0.4590	P	0.5
8	☐			330.01	0.0011	P	5.0

$$y = 2.2982E-005 * x + 0.0013$$

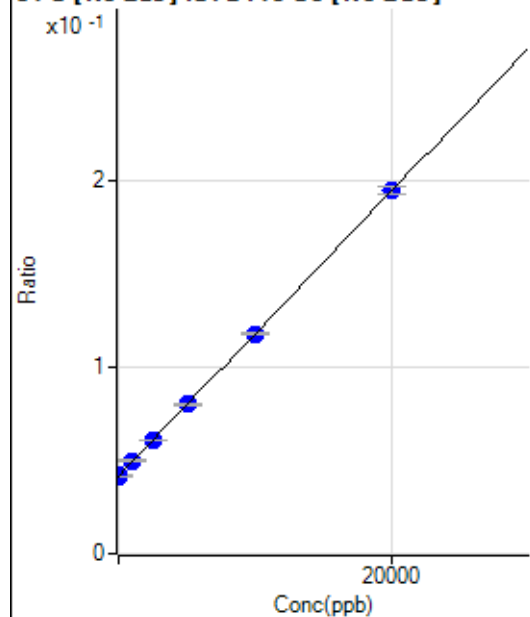
$$R = 1.0000$$

$$DL = 9.418$$

$$BEC = 54.92$$

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	46.659	168347.03	0.0419	P	0.9
2	☐	0.000	-46.659	168075.38	0.0412	P	0.7
3	☐	1000.000	1090.655	198447.90	0.0498	P	0.7
4	☐	2500.000	2482.491	239886.98	0.0605	P	0.5
5	☐	5000.000	5047.701	312614.15	0.0800	P	1.2
6	☐	10000.000	9988.792	463451.82	0.1177	P	0.6
7	☐	20000.000	19991.335	769253.75	0.1941	P	2.1
8	☐			143082.59	0.0402	P	1.7

$$y = 7.6317E-006 * x + 0.0415$$

R = 1.0000

DL = 130.1

BEC = 5439

Weight: <None>

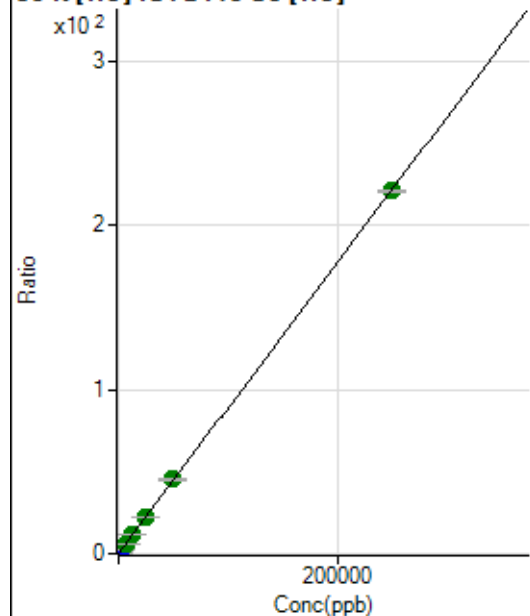
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	46724.86	0.1332	P	0.6
2	☐	500.000	543.110	216810.10	0.6138	P	0.4
3	☐	2500.000	2816.388	907419.53	2.6254	P	0.3
4	☐	6250.000	6380.782	1934659.69	5.7795	A	1.1
5	☐	12500.000	12756.447	3798073.76	11.4214	A	0.2
6	☐	25000.000	25617.996	7596849.26	22.8025	A	0.3
7	☐	50000.000	51209.557	15121215.19	45.4485	A	2.0
8	☐	250000.00	249676.94	65234979.58	221.0722	A	0.4

$$y = 8.8490E-004 * x + 0.1332$$

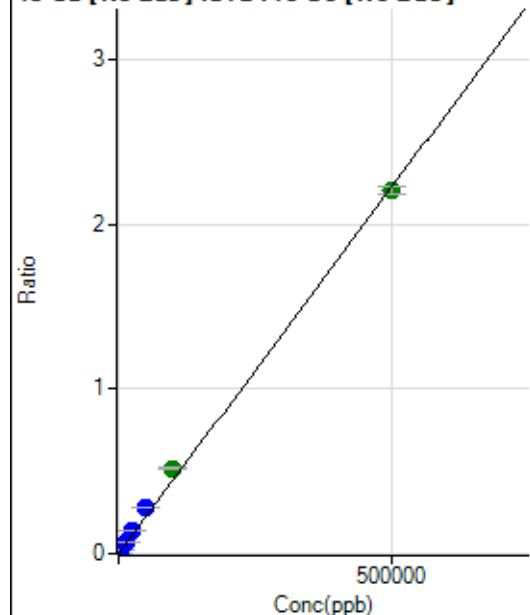
$$R = 1.0000$$

$$DL = 2.659$$

$$BEC = 150.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	151.11	0.0000	P	12.0
2	☐	500.000	566.044	10432.57	0.0026	P	2.0
3	☐	5000.000	6388.012	113243.03	0.0284	P	1.3
4	☐	12500.000	15404.538	271886.77	0.0685	P	1.2
5	☐	25000.000	31027.873	538947.48	0.1380	P	1.3
6	☐	50000.000	62220.773	1088832.60	0.2766	P	1.8
7	☐	100000.00	116047.27	2044850.04	0.5159	A	2.4
8	☐	500000.00	495180.51	7832091.41	2.2013	A	2.2

$$y = 4.4454\text{E-}006 * x + 3.7571\text{E-}005$$

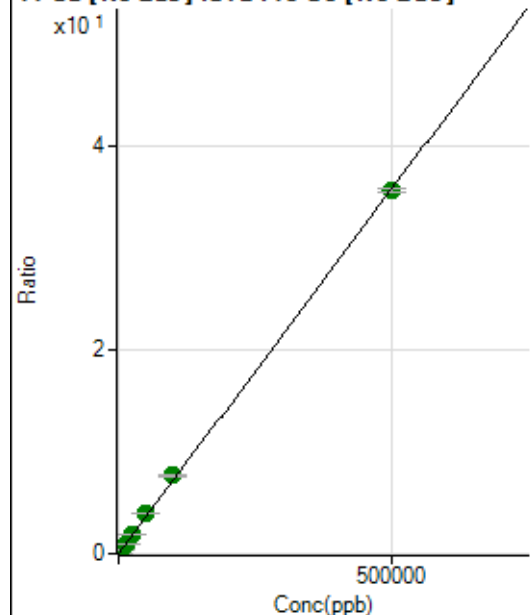
$$R = 0.9993$$

$$DL = 3.042$$

$$BEC = 8.452$$

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	8697.05	0.0022	P	2.6
2	☐	500.000	566.302	174417.17	0.0427	P	0.2
3	☐	5000.000	5660.936	1622535.91	0.4074	A	1.3
4	☐	12500.000	13605.830	3873486.47	0.9761	A	1.2
5	☐	25000.000	27379.391	7664650.79	1.9621	A	1.0
6	☐	50000.000	55096.079	15532606.02	3.9462	A	1.8
7	☐	100000.00	107825.86	30600467.88	7.7209	A	2.8
8	☐	500000.00	497771.92	126792711.4	35.6351	A	1.1

$$y = 7.1585\text{E-}005 * x + 0.0022$$

$$R = 0.9998$$

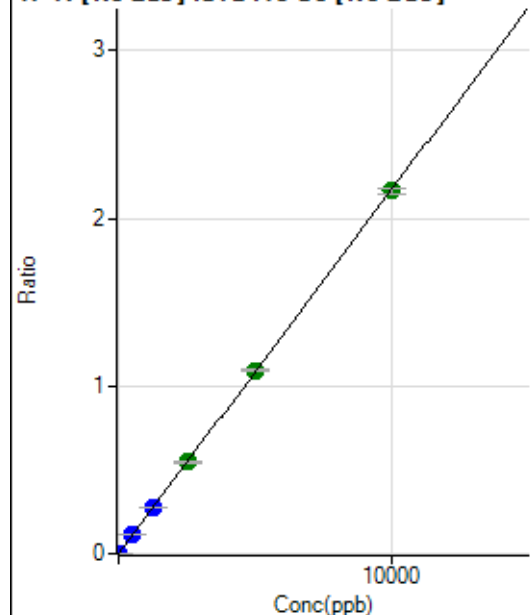
$$DL = 2.384$$

$$BEC = 30.21$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	8.2
2	☐	5.000	5.266	4751.90	0.0012	P	2.6
3	☐	500.000	527.738	456393.47	0.1146	P	0.3
4	☐	1250.000	1286.013	1108026.57	0.2792	P	0.6
5	☐	2500.000	2518.699	2136123.51	0.5469	A	1.5
6	☐	5000.000	5042.562	4309414.34	1.0948	A	1.6
7	☐	10000.000	9968.156	8578492.51	2.1642	A	1.9
8	☐			2039.05	0.0006	P	23.6

$$y = 2.1711\text{E-}004 * x + 2.0165\text{E-}005$$

$$R = 1.0000$$

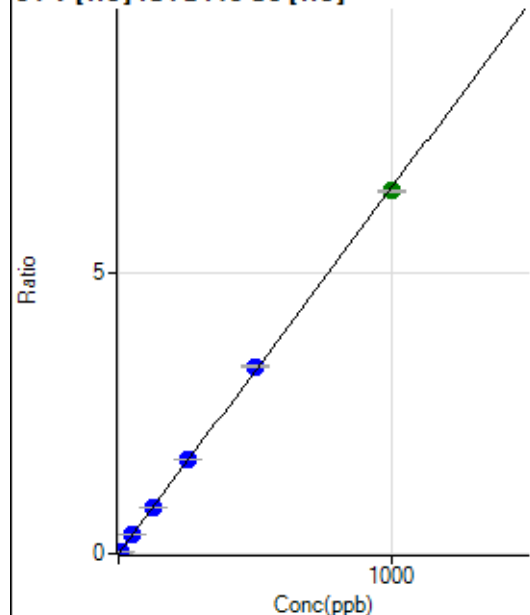
$$DL = 0.02284$$

$$BEC = 0.09288$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.45	0.0000	P	86.6
2	☐	5.000	5.194	11942.58	0.0338	P	1.9
3	☐	50.000	51.848	116608.08	0.3374	P	0.5
4	☐	125.000	127.941	278669.30	0.8325	P	0.5
5	☐	250.000	256.329	554644.34	1.6679	P	0.4
6	☐	500.000	512.356	1110694.73	3.3338	P	0.2
7	☐	1000.000	991.779	2147284.76	6.4534	A	0.5
8	☐			706.69	0.0024	P	4.5

$$y = 0.0065 * x + 1.2730\text{E-}005$$

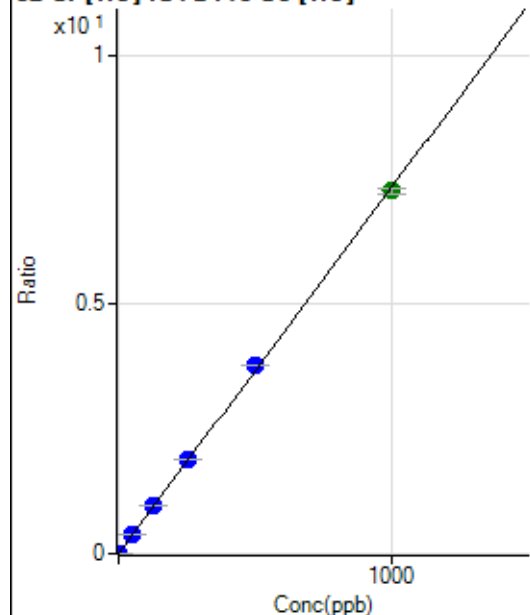
$$R = 0.9999$$

$$DL = 0.005083$$

$$BEC = 0.001956$$

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	1067.83	0.0030	P	5.7
2	☐	2.000	2.135	6614.83	0.0187	P	0.6
3	☐	50.000	52.862	135235.46	0.3913	P	0.4
4	☐	125.000	129.269	318805.69	0.9524	P	0.2
5	☐	250.000	257.850	630740.17	1.8967	P	0.3
6	☐	500.000	512.448	1254860.41	3.7665	P	0.1
7	☐	1000.000	991.136	2422874.98	7.2821	A	1.5
8	☐			17295.54	0.0586	P	0.2

$$y = 0.0073 * x + 0.0030$$

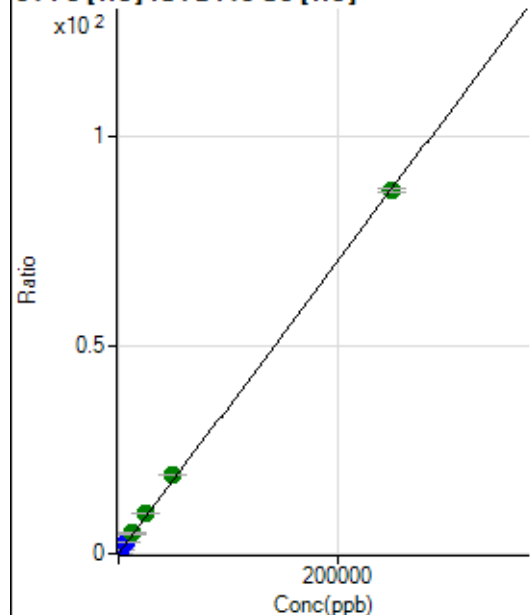
$$R = 0.9998$$

$$DL = 0.07082$$

$$BEC = 0.4144$$

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	1593.44	0.0045	P	5.2
2	☐	50.000	57.507	8713.70	0.0247	P	2.1
3	☐	2500.000	3009.907	365607.29	1.0578	P	0.5
4	☐	6250.000	7398.231	868114.23	2.5934	P	0.3
5	☐	12500.000	13882.679	1616958.26	4.8625	A	1.0
6	☐	25000.000	27286.519	3182610.30	9.5530	A	0.7
7	☐	50000.000	54061.643	6296143.31	18.9224	A	0.9
8	☐	250000.00	248856.07	25697814.34	87.0872	A	0.9

$$y = 3.4993E-004 * x + 0.0045$$

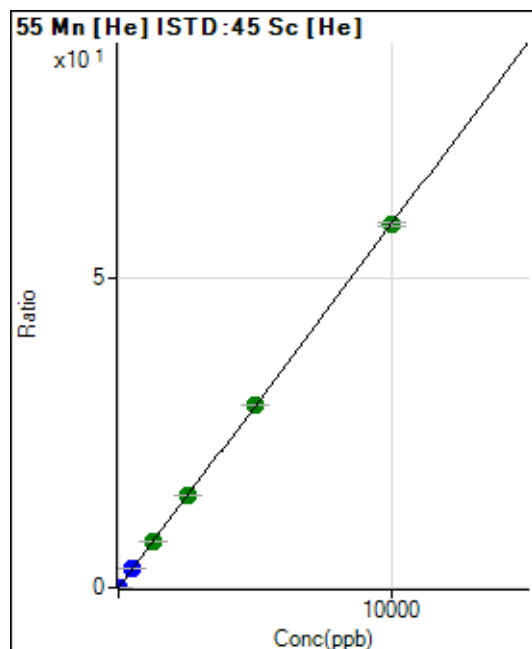
$$R = 0.9998$$

$$DL = 2.022$$

$$BEC = 12.98$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243.34	0.0007	P	17.1
2	☐	1.000	1.098	2525.79	0.0072	P	4.4
3	☐	500.000	531.846	1081113.86	3.1280	P	0.8
4	☐	1250.000	1260.848	2481850.40	7.4145	A	0.5
5	☐	2500.000	2531.099	4949384.62	14.8836	A	0.8
6	☐	5000.000	5025.158	9844331.52	29.5488	A	0.6
7	☐	10000.000	9976.698	19519127.77	58.6640	A	0.9
8	☐			8986.09	0.0305	P	2.2

$$y = 0.0059 * x + 6.9302E-004$$

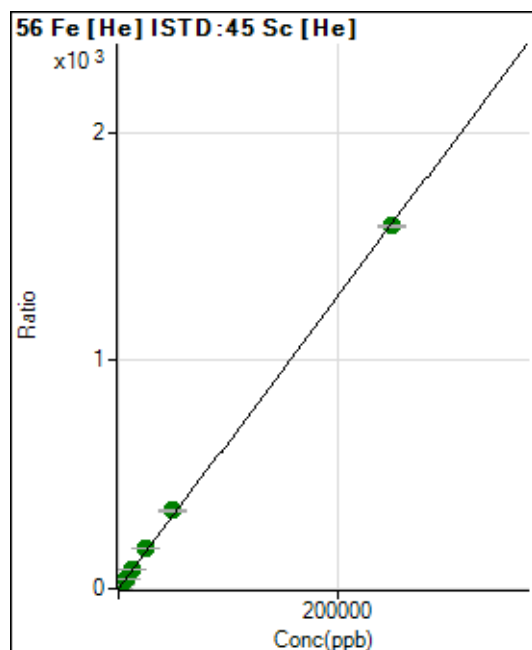
$$R = 1.0000$$

$$DL = 0.06064$$

$$BEC = 0.1179$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10778.39	0.0307	P	2.3
2	☐	50.000	57.109	139755.16	0.3957	P	0.6
3	☐	2500.000	2785.335	6162238.73	17.8291	A	0.4
4	☐	6250.000	6776.532	14505575.48	43.3329	A	1.2
5	☐	12500.000	13745.921	29218753.73	87.8675	A	0.9
6	☐	25000.000	27166.731	57844591.36	173.6268	A	0.6
7	☐	50000.000	53667.718	114113668.3	342.9688	A	1.4
8	☐	250000.00	248971.46	469477024.1	1,590.964	A	0.5

$$y = 0.0064 * x + 0.0307$$

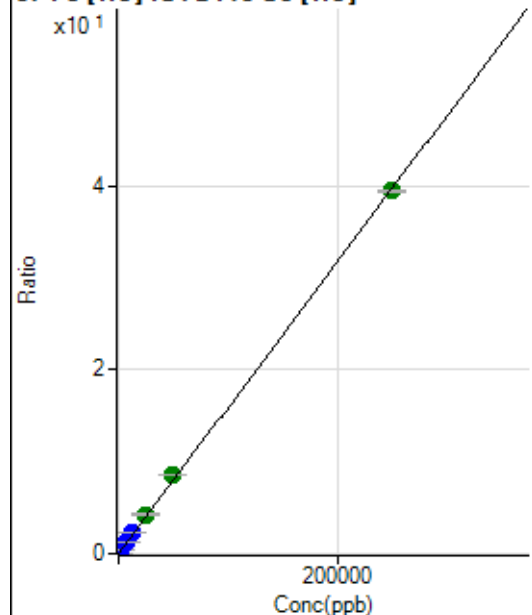
$$R = 0.9999$$

$$DL = 0.33$$

$$BEC = 4.808$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	443.34	0.0013	P	3.1
2	☐	50.000	58.751	3733.83	0.0106	P	4.4
3	☐	2500.000	2947.042	161821.51	0.4682	P	0.3
4	☐	6250.000	7298.786	387507.52	1.1577	P	0.6
5	☐	12500.000	14534.363	766198.13	2.3041	P	0.6
6	☐	25000.000	26959.558	1423482.76	4.2727	A	0.8
7	☐	50000.000	53622.098	2827293.15	8.4972	A	0.6
8	☐	250000.00	248947.21	11639563.85	39.4445	A	0.3

$$y = 1.5844\text{E-}004 * x + 0.0013$$

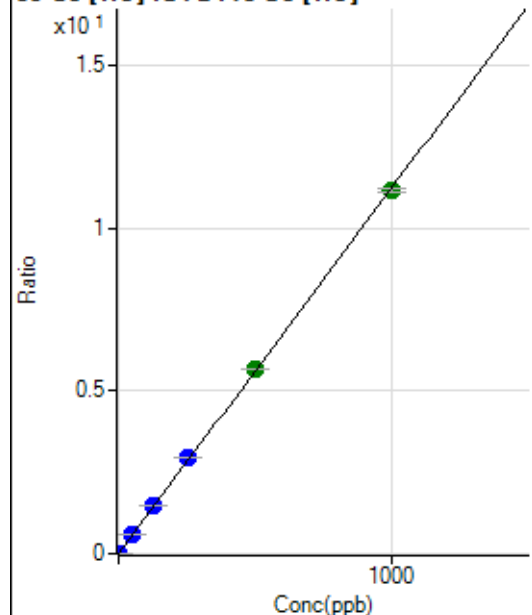
$$R = 0.9999$$

$$DL = 0.7481$$

$$BEC = 7.975$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0001	P	18.3
2	☐	1.000	1.080	4329.56	0.0123	P	2.3
3	☐	50.000	53.832	209081.66	0.6049	P	0.7
4	☐	125.000	131.359	494033.92	1.4759	P	0.8
5	☐	250.000	262.132	979377.59	2.9452	P	0.7
6	☐	500.000	506.135	1894547.99	5.6866	A	0.4
7	☐	1000.000	992.913	3711820.78	11.1556	A	1.1
8	☐			3741.61	0.0127	P	4.7

$$y = 0.0112 * x + 1.2039\text{E-}004$$

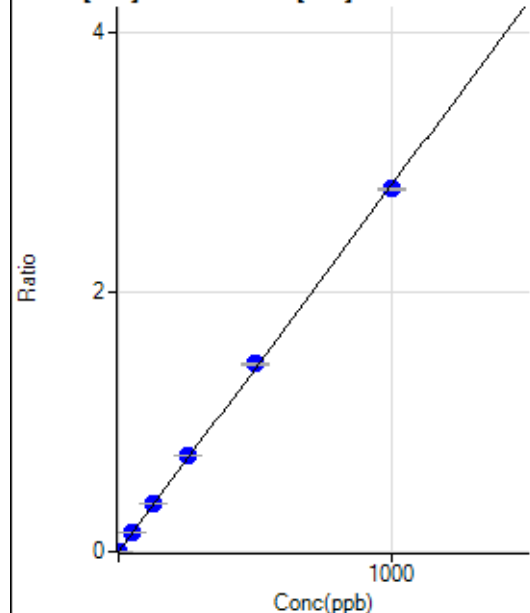
$$R = 0.9999$$

$$DL = 0.005899$$

$$BEC = 0.01072$$

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	74.44	0.0002	P	24.9
2	☐	1.000	1.156	1226.73	0.0035	P	4.7
3	☐	50.000	54.050	52771.27	0.1527	P	1.4
4	☐	125.000	131.670	124400.63	0.3716	P	0.4
5	☐	250.000	261.212	245109.01	0.7371	P	0.2
6	☐	500.000	512.464	481686.06	1.4458	P	0.8
7	☐	1000.000	989.928	929222.59	2.7927	P	0.8
8	☐			2762.50	0.0094	P	3.5

$$y = 0.0028 * x + 2.1234E-004$$

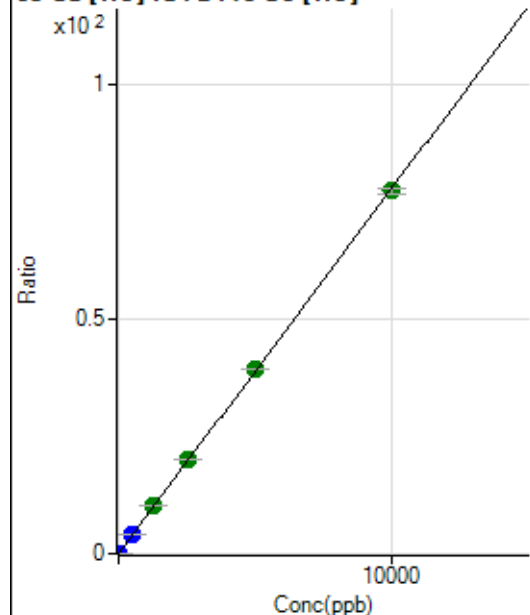
$$R = 0.9998$$

$$DL = 0.05615$$

$$BEC = 0.07527$$

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	810.03	0.0023	P	5.4
2	☐	2.000	2.164	6758.25	0.0191	P	3.8
3	☐	500.000	546.286	1468519.80	4.2488	P	0.4
4	☐	1250.000	1299.961	3383241.24	10.1075	A	0.6
5	☐	2500.000	2597.295	6714646.08	20.1923	A	0.8
6	☐	5000.000	5049.065	13076711.75	39.2510	A	0.4
7	☐	10000.000	9942.585	25715564.06	77.2905	A	1.8
8	☐			3718.28	0.0126	P	2.9

$$y = 0.0078 * x + 0.0023$$

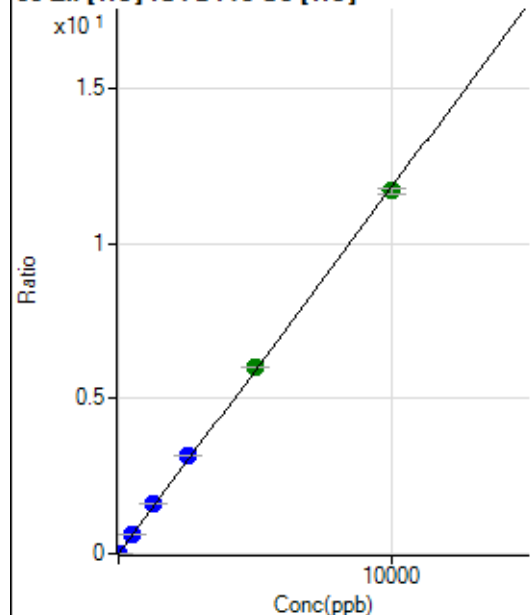
$$R = 0.9999$$

$$DL = 0.04852$$

$$BEC = 0.297$$

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	127.78	0.0004	P	29.8
2	☐	2.000	2.478	1164.50	0.0033	P	7.7
3	☐	500.000	547.865	224153.79	0.6485	P	0.2
4	☐	1250.000	1352.245	535650.15	1.6002	P	0.7
5	☐	2500.000	2681.930	1055245.43	3.1733	P	0.6
6	☐	5000.000	5074.899	2000419.76	6.0044	A	0.3
7	☐	10000.000	9901.894	3897938.90	11.7152	A	1.6
8	☐			16945.25	0.0574	P	1.9

$$y = 0.0012 * x + 3.6455E-004$$

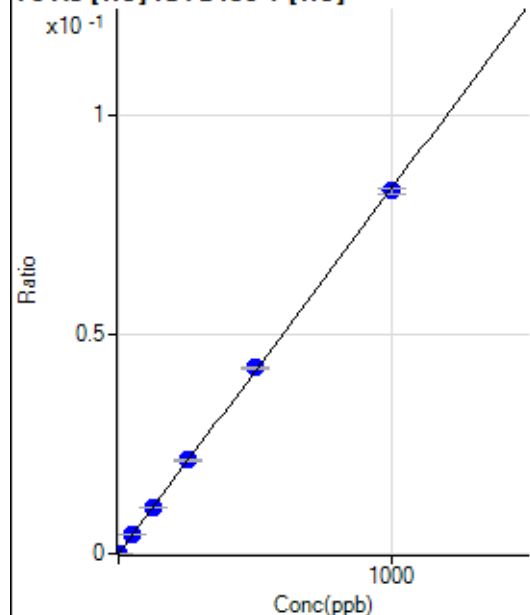
$$R = 0.9998$$

$$DL = 0.2751$$

$$BEC = 0.3081$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	1.000	1.082	311.12	0.0001	P	4.3
3	☐	50.000	52.149	14755.24	0.0043	P	1.3
4	☐	125.000	125.352	35013.49	0.0104	P	1.3
5	☐	250.000	255.683	70408.16	0.0213	P	1.5
6	☐	500.000	510.221	140861.20	0.0425	P	0.9
7	☐	1000.000	993.317	274863.42	0.0827	P	1.3
8	☐			55.55	0.0000	P	6.7

$$y = 8.3304E-005 * x + 3.2856E-007$$

$$R = 0.9999$$

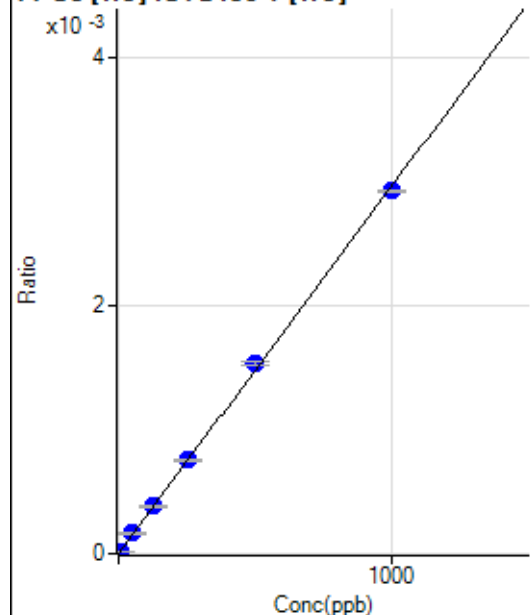
$$DL = 0.02049$$

$$BEC = 0.003944$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.460	55.56	0.0000	P	33.4
3	☐	50.000	55.137	554.46	0.0002	P	5.6
4	☐	125.000	128.883	1280.07	0.0004	P	2.2
5	☐	250.000	255.620	2502.46	0.0008	P	2.5
6	☐	500.000	519.318	5096.48	0.0015	P	2.1
7	☐	1000.000	988.191	9721.04	0.0029	P	0.6
8	☐			6.67	0.0000	P	132.

$$y = 2.9613\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

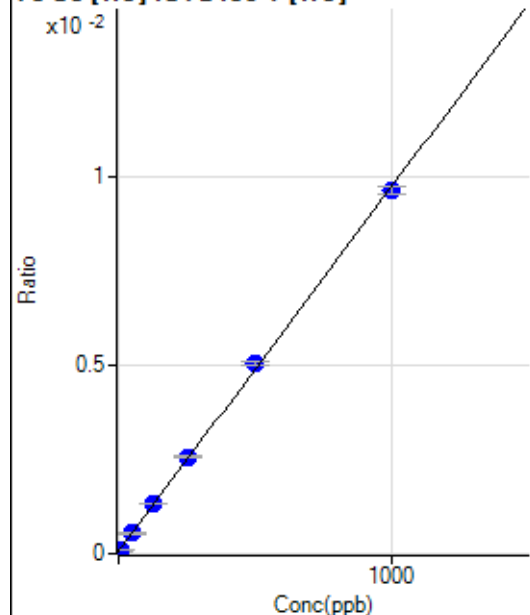
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0001	P	11.4
2	☐	5.000	4.498	365.56	0.0001	P	13.0
3	☐	50.000	50.234	1860.13	0.0005	P	5.4
4	☐	125.000	131.685	4472.94	0.0013	P	0.7
5	☐	250.000	259.491	8488.06	0.0026	P	0.7
6	☐	500.000	516.161	16720.64	0.0050	P	1.3
7	☐	1000.000	988.702	31907.74	0.0096	P	2.0
8	☐			220.00	0.0001	P	23.9

$$y = 9.6525\text{E-}006 * x + 6.2891\text{E-}005$$

$$R = 0.9997$$

$$DL = 2.22$$

$$BEC = 6.515$$

Weight: <None>

Min Conc: 0

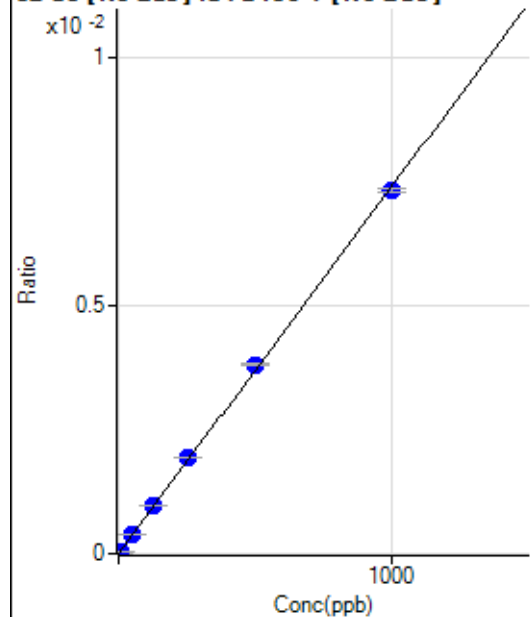
81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35949.47		P	1.3
2	☐			36454.02		P	1.1
3	☐			35379.20		P	2.7
4	☐			35034.94		P	1.4
5	☐			34401.26		P	2.2
6	☐			34196.48		P	1.5
7	☐			34674.06		P	0.6
8	☐			33494.73		P	1.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			85.56		P	13.7
2	☐			54.44		P	9.4
3	☐			70.00		P	46.9
4	☐			37.78		P	22.2
5	☐			43.33		P	48.0
6	☐			58.89		P	13.1
7	☐			54.45		P	49.1
8	☐			63.33		P	9.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.99	0.0000	P	138.
2	☐	5.000	5.560	600.80	0.0000	P	4.8
3	☐	50.000	52.914	5490.38	0.0004	P	1.5
4	☐	125.000	128.977	13260.12	0.0010	P	0.5
5	☐	250.000	260.512	26466.61	0.0019	P	0.5
6	☐	500.000	515.183	52635.38	0.0038	P	1.4
7	☐	1000.000	989.135	103052.84	0.0073	P	0.9
8	☐			218.56	0.0000	P	11.5

$$y = 7.4035\text{E-}006 * x + 1.7341\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.9717$$

$$BEC = 0.2342$$

Weight: <None>

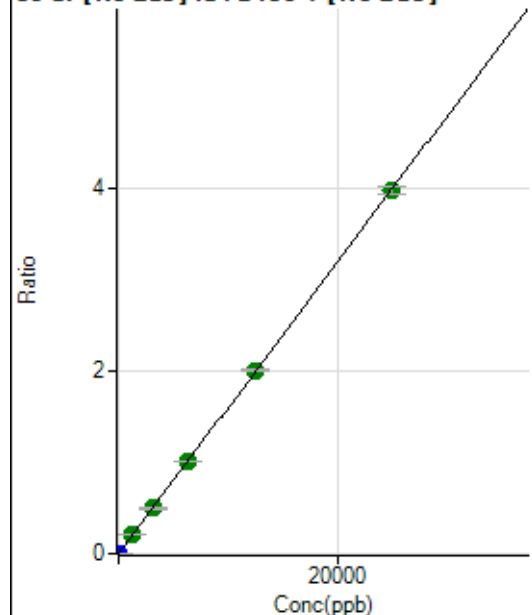
Min Conc: 0

83 Kr [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			101.11		P	25.6
2	☐			114.44		P	24.8
3	☐			111.11		P	23.3
4	☐			120.00		P	10.0
5	☐			107.78		P	25.8
6	☐			107.78		P	12.5
7	☐			132.22		P	20.5
8	☐			163.34		P	13.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.11	0.0000	P	14.3
2	☐	1.000	1.036	2484.68	0.0002	P	3.5
3	☐	1250.000	1271.570	2828740.23	0.2027	A	0.7
4	☐	3125.000	3107.660	6866756.70	0.4954	A	0.7
5	☐	6250.000	6306.638	13782725.63	1.0053	A	0.2
6	☐	12500.000	12616.830	27743267.37	2.0112	A	1.5
7	☐	25000.000	24928.515	55908840.28	3.9737	A	2.1
8	☐			18751.32	0.0015	P	17.8

$$y = 1.5940\text{E-}004 * x + 1.2397\text{E-}005$$

$$R = 1.0000$$

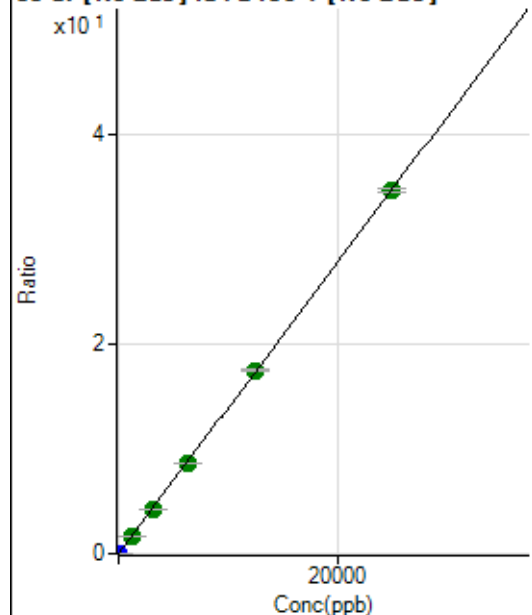
$$DL = 0.03347$$

$$BEC = 0.07778$$

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	143.34	0.0000	P	10.9
2	☐	1.000	1.028	20113.84	0.0014	P	2.0
3	☐	1250.000	1253.410	24266529.64	1.7389	A	0.3
4	☐	3125.000	3073.979	59114393.01	4.2647	A	1.1
5	☐	6250.000	6215.277	118217204.9	8.6227	A	0.6
6	☐	12500.000	12621.018	241534085.2	17.5096	A	0.8
7	☐	25000.000	24954.379	487087317.1	34.6201	A	1.2
8	☐			162515.25	0.0130	P	17.4

$$y = 0.0014 * x + 1.0390\text{E-}005$$

$$R = 1.0000$$

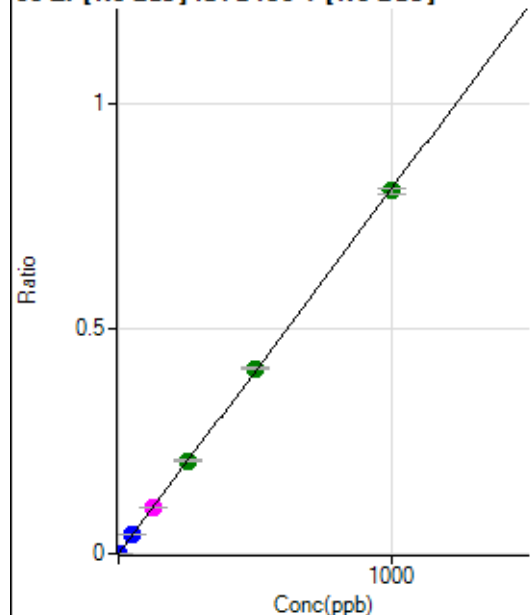
$$DL = 0.002445$$

$$BEC = 0.007489$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	433.35	0.0000	P	5.1
2	☐	1.000	1.005	11840.42	0.0008	P	1.1
3	☐	50.000	51.908	587492.29	0.0421	P	1.6
4	☐	125.000	125.221	1407311.68	0.1015	M	1.9
5	☐	250.000	254.004	2823138.95	0.2059	A	2.1
6	☐	500.000	508.443	5685185.82	0.4121	A	1.5
7	☐	1000.000	994.655	11343313.37	0.8062	A	1.7
8	☐			3463.80	0.0003	P	19.3

$$y = 8.1052\text{E-}004 * x + 3.1410\text{E-}005$$

$$R = 0.9999$$

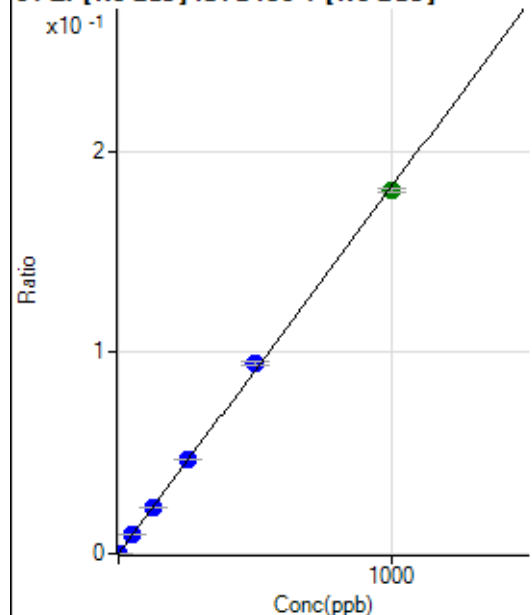
$$DL = 0.005911$$

$$BEC = 0.03875$$

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	68.89	0.0000	P	15.3
2	☐	1.000	0.998	2620.27	0.0002	P	4.9
3	☐	50.000	51.833	132018.58	0.0095	P	1.0
4	☐	125.000	127.314	322025.94	0.0232	P	0.3
5	☐	250.000	257.121	643183.97	0.0469	P	0.4
6	☐	500.000	518.284	1304308.07	0.0946	P	1.6
7	☐	1000.000	988.697	2537707.32	0.1804	A	0.9
8	☐			746.69	0.0001	P	15.6

$$y = 1.8243\text{E-}004 * x + 4.9952\text{E-}006$$

$$R = 0.9997$$

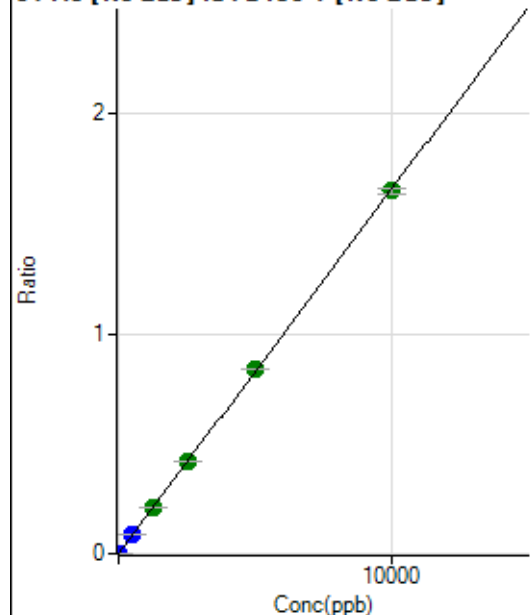
$$DL = 0.01257$$

$$BEC = 0.02738$$

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	143.34	0.0000	P	22.9
2	☐	5.000	5.756	13482.96	0.0010	P	0.4
3	☐	500.000	525.083	1212465.48	0.0869	P	1.9
4	☐	1250.000	1259.917	2889990.03	0.2085	A	0.8
5	☐	2500.000	2526.301	5731644.71	0.4180	A	1.1
6	☐	5000.000	5065.148	11561870.11	0.8382	A	0.8
7	☐	10000.000	9958.357	23183208.82	1.6478	A	1.5
8	☐			6869.51	0.0006	P	20.9

$$y = 1.6547\text{E-}004 * x + 1.0389\text{E-}005$$

$$R = 1.0000$$

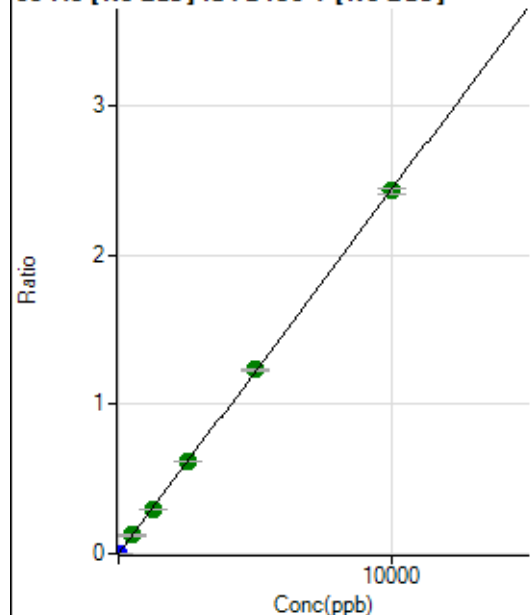
$$DL = 0.04312$$

$$BEC = 0.06278$$

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	30.00	0.0000	P	39.7
2	☐	5.000	4.914	16824.21	0.0012	P	1.3
3	☐	500.000	502.564	1711518.45	0.1227	A	1.6
4	☐	1250.000	1238.879	4191370.95	0.3024	A	0.2
5	☐	2500.000	2533.197	8476558.20	0.6183	A	0.4
6	☐	5000.000	5051.414	17006110.86	1.2329	A	1.7
7	☐	10000.000	9967.256	34224106.71	2.4327	A	1.6
8	☐			8455.96	0.0007	P	23.3

$$y = 2.4407\text{E-}004 * x + 2.1713\text{E-}006$$

$$R = 1.0000$$

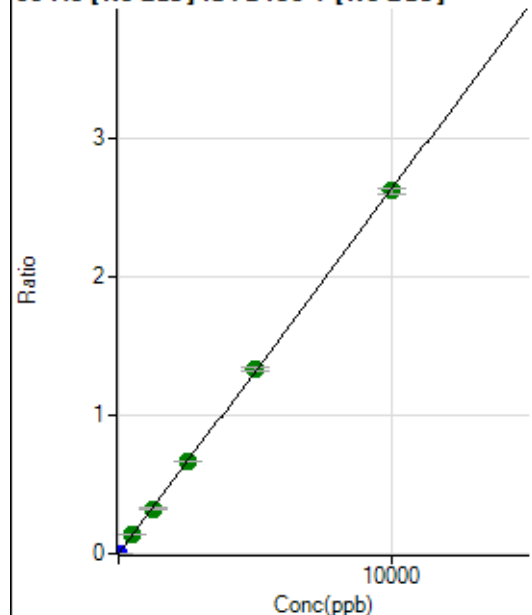
$$DL = 0.01059$$

$$BEC = 0.008896$$

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	85.56	0.0000	P	5.9
2	☐	5.000	5.053	18745.45	0.0013	P	0.4
3	☐	500.000	504.018	1854987.65	0.1329	A	0.6
4	☐	1250.000	1236.517	4520455.59	0.3261	A	1.6
5	☐	2500.000	2522.645	9121357.29	0.6653	A	0.7
6	☐	5000.000	5084.105	18494447.36	1.3409	A	2.1
7	☐	10000.000	9953.771	36931796.12	2.6252	A	1.6
8	☐			25051.79	0.0020	P	9.0

$$y = 2.6373\text{E-}004 * x + 6.2004\text{E-}006$$

$$R = 0.9999$$

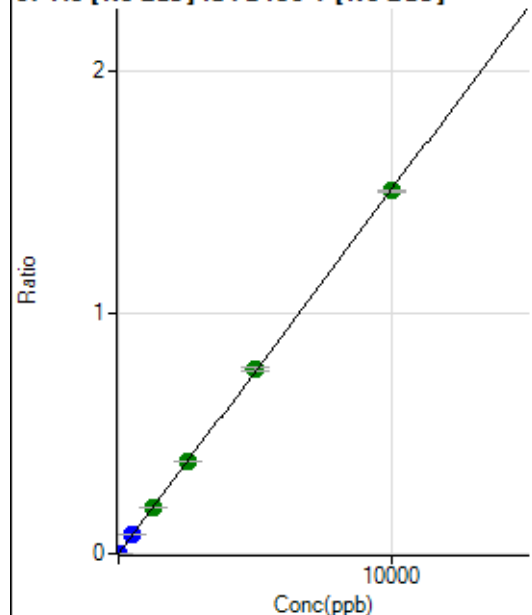
$$DL = 0.004154$$

$$BEC = 0.02351$$

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	5.56	0.0000	P	34.4
2	☐	5.000	4.943	10466.03	0.0007	P	0.6
3	☐	500.000	521.458	1099562.66	0.0788	P	2.0
4	☐	1250.000	1252.587	2623939.55	0.1893	A	1.4
5	☐	2500.000	2528.956	5239678.67	0.3822	A	1.0
6	☐	5000.000	5058.576	10544644.29	0.7645	A	2.1
7	☐	10000.000	9962.077	21181704.69	1.5055	A	0.8
8	☐			5653.42	0.0005	P	24.7

$$y = 1.5113\text{E-}004 * x + 4.0227\text{E-}007$$

$$R = 1.0000$$

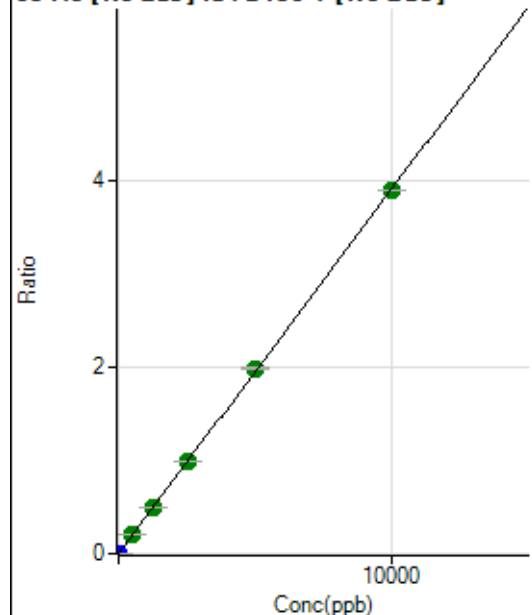
$$DL = 0.002744$$

$$BEC = 0.002662$$

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	37.78	0.0000	P	53.6
2	☐	5.000	5.001	27435.81	0.0020	P	1.1
3	☐	500.000	507.079	2768433.22	0.1984	A	0.9
4	☐	1250.000	1244.932	6751311.71	0.4871	A	0.4
5	☐	2500.000	2510.522	13465789.38	0.9822	A	0.1
6	☐	5000.000	5080.666	27419011.54	1.9877	A	0.8
7	☐	10000.000	9957.316	54806669.74	3.8956	A	0.0
8	☐			13521.16	0.0011	P	25.1

$$y = 3.9123\text{E-}004 * x + 2.7427\text{E-}006$$

$$R = 1.0000$$

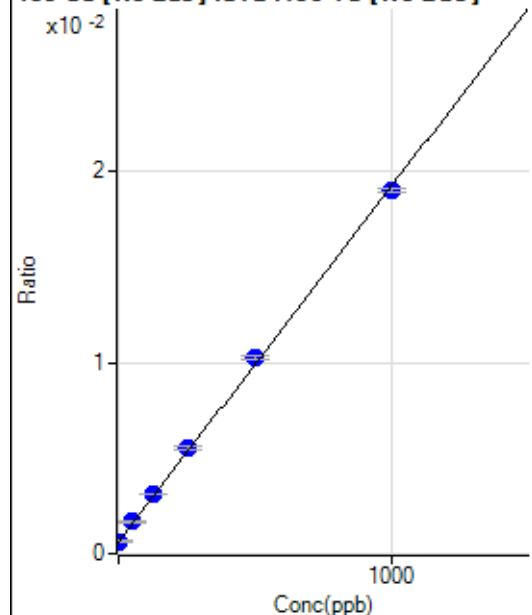
$$DL = 0.01127$$

$$BEC = 0.007011$$

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	5922.37	0.0006	P	0.2
2	☐	1.000	1.231	6304.76	0.0006	P	3.6
3	☐	50.000	56.113	16037.84	0.0017	P	2.5
4	☐	125.000	132.040	29471.03	0.0031	P	0.6
5	☐	250.000	263.273	52743.12	0.0055	P	2.5
6	☐	500.000	517.562	98754.96	0.0103	P	1.5
7	☐	1000.000	986.715	186214.06	0.0190	P	1.2
8	☐			5571.13	0.0006	P	4.8

$$y = 1.8608\text{E-}005 * x + 6.2212\text{E-}004$$

$$R = 0.9997$$

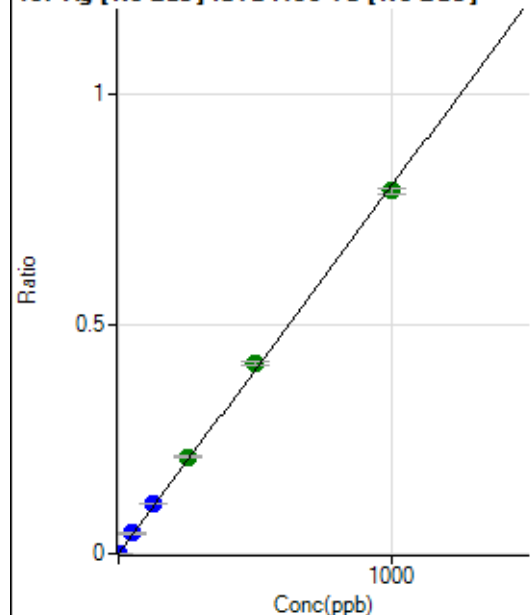
$$DL = 0.2246$$

$$BEC = 33.43$$

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	82.22	0.0000	P	6.1
2	☐	1.000	1.080	8548.14	0.0009	P	1.6
3	☐	50.000	55.189	425874.27	0.0442	P	1.5
4	☐	125.000	134.811	1034380.26	0.1081	P	0.7
5	☐	250.000	263.779	2020180.06	0.2115	A	0.7
6	☐	500.000	516.710	3989301.12	0.4142	A	2.4
7	☐	1000.000	986.715	7758785.79	0.7910	A	1.3
8	☐			3640.50	0.0004	P	10.6

$$y = 8.0161\text{E-}004 * x + 8.6371\text{E-}006$$

$$R = 0.9997$$

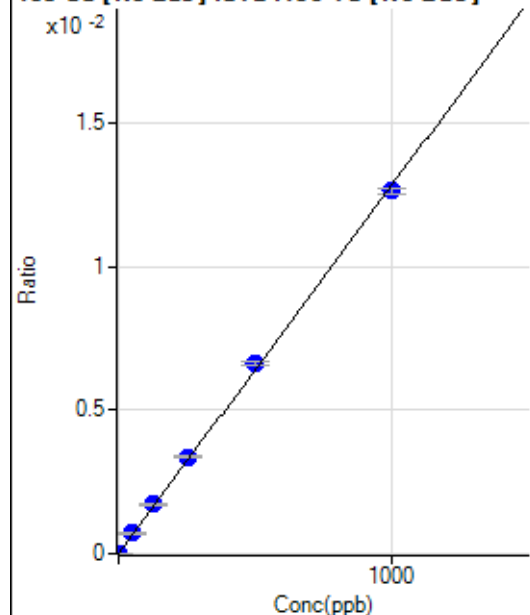
$$DL = 0.001985$$

$$BEC = 0.01077$$

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	8.89	0.0000	P	57.3
2	☐	1.000	1.178	156.67	0.0000	P	10.0
3	☐	50.000	55.090	6803.88	0.0007	P	4.8
4	☐	125.000	133.234	16357.10	0.0017	P	1.3
5	☐	250.000	263.651	32298.23	0.0034	P	3.2
6	☐	500.000	518.755	64066.23	0.0067	P	1.6
7	☐	1000.000	985.926	123999.71	0.0126	P	1.6
8	☐			67.78	0.0000	P	26.5

$$y = 1.2821\text{E-}005 * x + 9.3330\text{E-}007$$

$$R = 0.9996$$

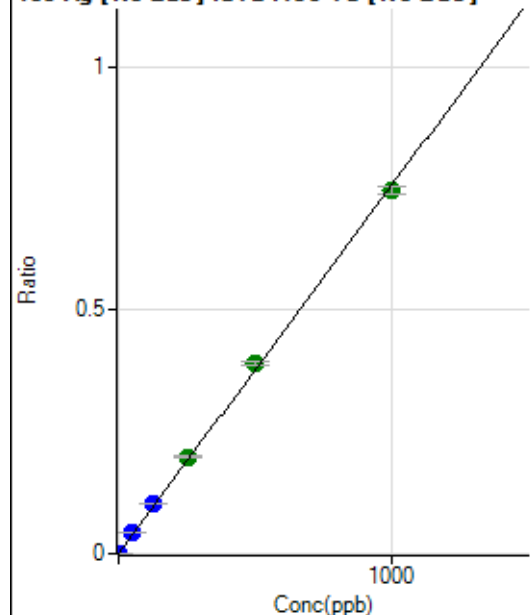
$$DL = 0.1251$$

$$BEC = 0.0728$$

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	18.89	0.0000	P	50.8
2	☐	1.000	1.112	8235.73	0.0008	P	2.0
3	☐	50.000	56.266	409295.62	0.0425	P	0.9
4	☐	125.000	135.977	983486.50	0.1028	P	1.4
5	☐	250.000	262.922	1898123.51	0.1987	A	1.6
6	☐	500.000	518.463	3773492.76	0.3918	A	2.3
7	☐	1000.000	985.853	7307786.63	0.7450	A	2.2
8	☐			3327.09	0.0004	P	12.5

$$y = 7.5570\text{E-}004 * x + 1.9830\text{E-}006$$

$$R = 0.9996$$

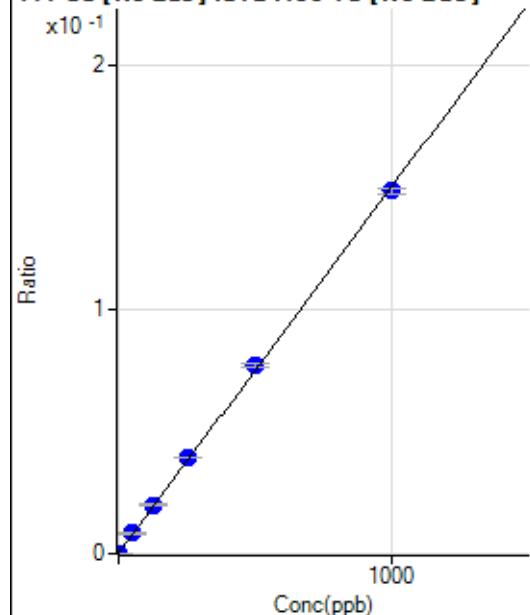
$$DL = 0.003999$$

$$BEC = 0.002624$$

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	1178.25	0.0001	P	0.5
2	☐	1.000	1.016	2702.49	0.0003	P	2.8
3	☐	50.000	54.507	79989.52	0.0083	P	1.2
4	☐	125.000	132.569	191744.37	0.0200	P	1.6
5	☐	250.000	261.982	377080.93	0.0395	P	1.5
6	☐	500.000	512.929	743193.03	0.0772	P	1.8
7	☐	1000.000	989.368	1458834.02	0.1487	P	1.7
8	☐			1621.24	0.0002	P	8.6

$$y = 1.5020\text{E-}004 * x + 1.2377\text{E-}004$$

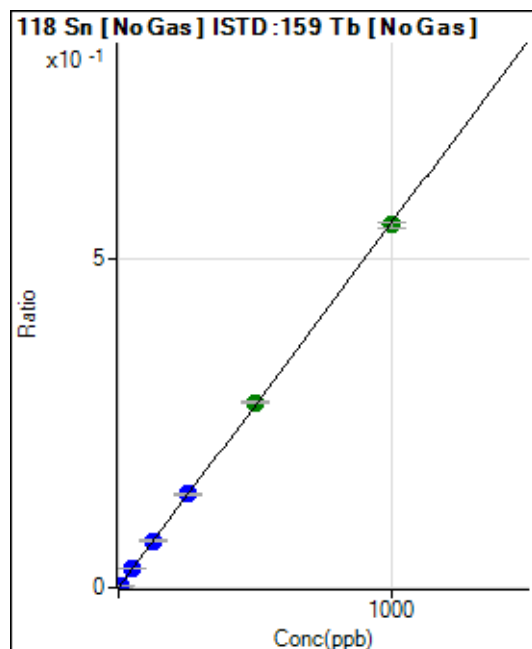
$$R = 0.9998$$

$$DL = 0.01158$$

$$BEC = 0.8241$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1895.70	0.0002	P	8.2
2	☐	5.000	5.038	29194.17	0.0030	P	1.3
3	☐	50.000	52.229	280101.02	0.0291	P	0.8
4	☐	125.000	128.699	683480.50	0.0714	P	1.1
5	☐	250.000	255.903	1354646.04	0.1418	P	1.2
6	☐	500.000	506.971	2703831.19	0.2807	A	1.5
7	☐	1000.000	994.465	5399877.59	0.5505	A	1.6
8	☐			3386.00	0.0004	P	10.1

$$y = 5.5334\text{E-}004 * x + 1.9915\text{E-}004$$

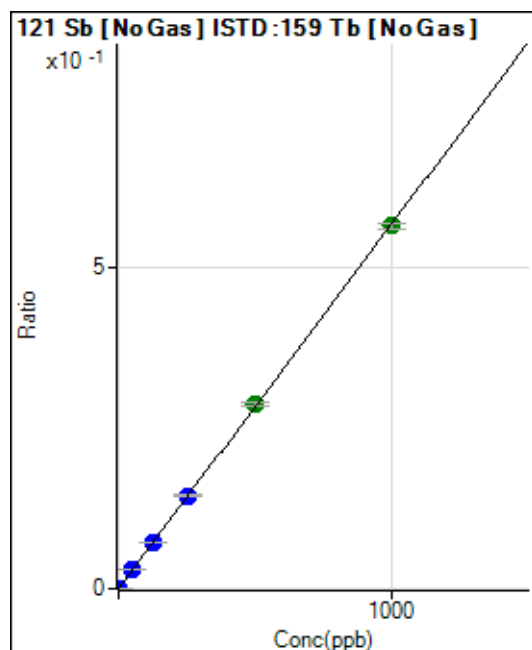
$$R = 0.9999$$

$$DL = 0.08894$$

$$BEC = 0.3599$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.78	0.0000	P	28.5
2	☐	2.000	2.009	11158.84	0.0011	P	0.7
3	☐	50.000	51.262	279894.85	0.0291	P	0.8
4	☐	125.000	127.001	689455.56	0.0720	P	1.4
5	☐	250.000	255.101	1382315.86	0.1447	P	1.3
6	☐	500.000	505.573	2761891.62	0.2868	A	2.2
7	☐	1000.000	995.625	5539479.36	0.5647	A	1.6
8	☐			3220.39	0.0004	P	7.8

$$y = 5.6721\text{E-}004 * x + 1.8669\text{E-}006$$

$$R = 1.0000$$

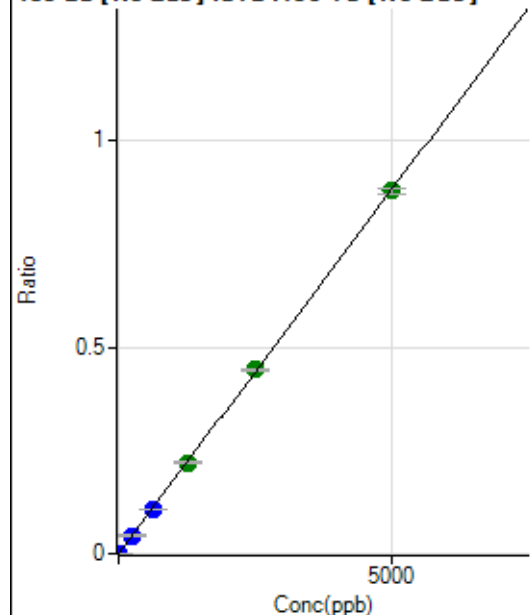
$$DL = 0.002813$$

$$BEC = 0.003291$$

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	14.44	0.0000	P	35.1
2	☐	10.000	9.717	16744.42	0.0017	P	1.5
3	☐	250.000	250.060	423891.51	0.0440	P	1.0
4	☐	625.000	614.524	1035777.37	0.1082	P	1.5
5	☐	1250.000	1253.116	2108281.89	0.2207	A	0.7
6	☐	2500.000	2525.287	4283253.51	0.4447	A	2.0
7	☐	5000.000	4987.885	8616395.91	0.8784	A	1.5
8	☐			5411.09	0.0006	P	9.5

$$y = 1.7611\text{E-}004 * x + 1.5168\text{E-}006$$

$$R = 1.0000$$

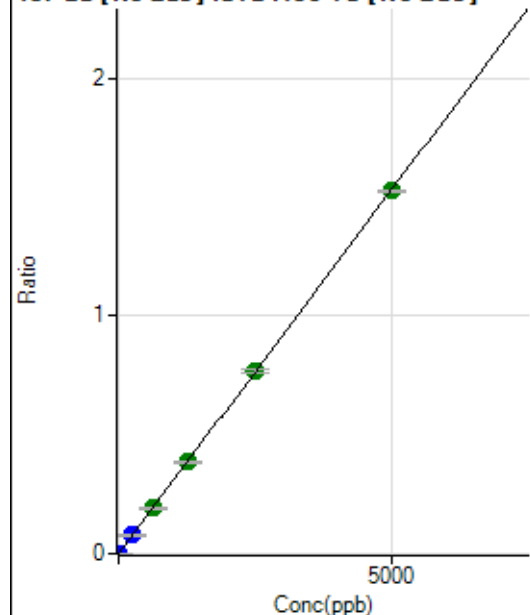
$$DL = 0.009074$$

$$BEC = 0.008613$$

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	26.66	0.0000	P	21.8
2	☐	10.000	9.644	28851.50	0.0030	P	0.5
3	☐	250.000	251.557	740274.02	0.0769	P	1.5
4	☐	625.000	624.382	1827061.48	0.1909	A	2.0
5	☐	1250.000	1262.140	3686523.07	0.3859	A	1.3
6	☐	2500.000	2520.147	7421252.04	0.7705	A	1.8
7	☐	5000.000	4986.892	14956874.36	1.5247	A	0.7
8	☐			9466.60	0.0011	P	9.6

$$y = 3.0574\text{E-}004 * x + 2.8013\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.005982$$

$$BEC = 0.009162$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			16.67		P	80.0
3	☐			85.56		P	9.0
4	☐			184.45		P	16.4
5	☐			350.01		P	5.8
6	☐			677.80		P	1.5
7	☐			1326.74		P	3.3
8	☐			42.22		P	36.5

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	☐			14.44		P	35.3
4	☐			32.22		P	12.0
5	☐			74.45		P	9.3
6	☐			145.56		P	14.0
7	☐			240.00		P	10.8
8	☐			26.67		P	33.1

156 Dy [No Gas] No available calibration points

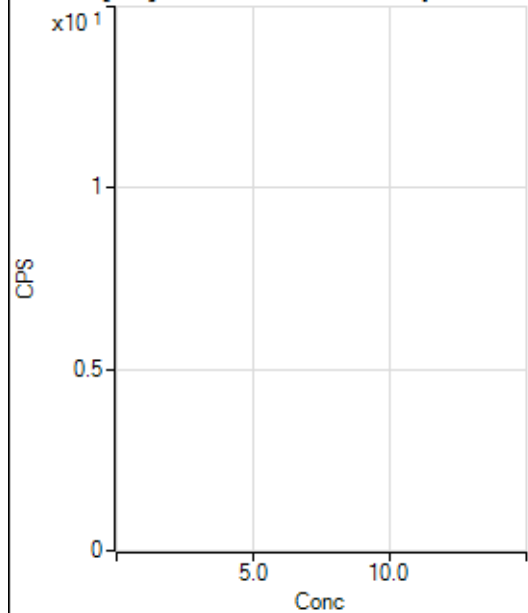
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			10.00		P	57.8
3	☐			40.00		P	30.0
4	☐			74.45		P	14.4
5	☐			146.67		P	7.9
6	☐			291.12		P	9.5
7	☐			528.90		P	9.2
8	☐			1414.53		P	4.8

156 Dy [He] No available calibration points

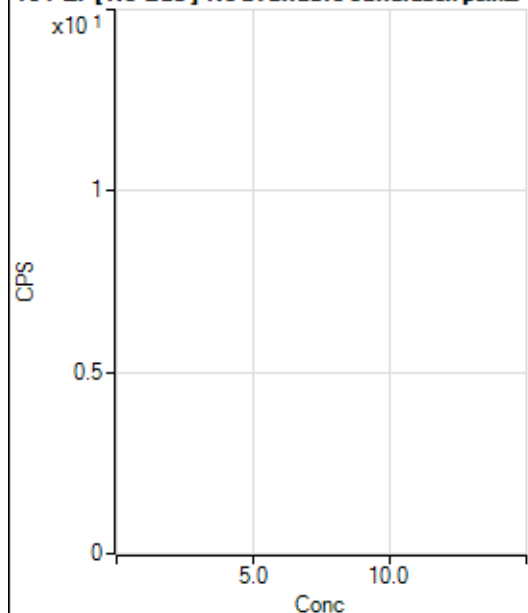
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			7.78		P	65.5
3	☐			38.89		P	17.8
4	☐			64.45		P	10.8
5	☐			125.56		P	10.7
6	☐			260.00		P	7.8
7	☐			520.02		P	2.6
8	☐			952.26		P	6.9

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

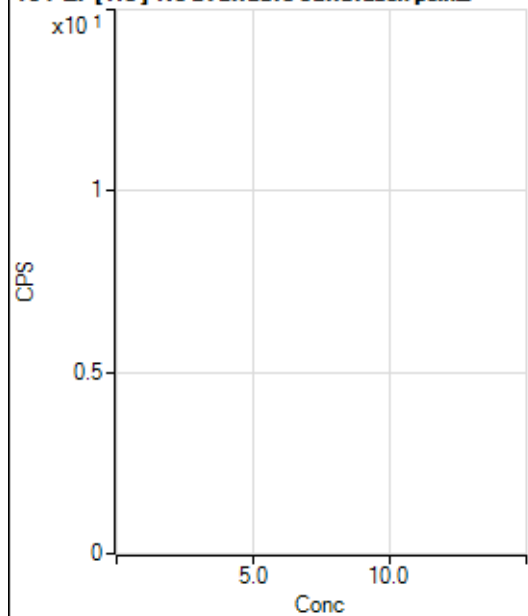
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	27.5
2	☐			52.22		P	25.8
3	☐			53.33		P	16.5
4	☐			80.00		P	12.5
5	☐			140.00		P	27.0
6	☐			226.67		P	6.4
7	☐			434.46		P	13.1
8	☐			1593.44		P	5.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			293.34		P	8.6
2	☐			277.78		P	11.4
3	☐			281.12		P	6.9
4	☐			291.12		P	18.2
5	☐			325.56		P	4.1
6	☐			378.90		P	14.8
7	☐			527.79		P	8.2
8	☐			1204.51		P	9.2

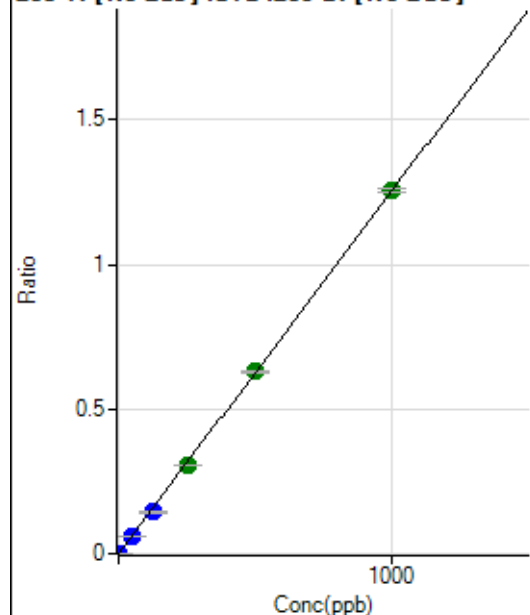
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	12.4
2	☐			82.22		P	20.4
3	☐			82.22		P	2.3
4	☐			71.11		P	18.9
5	☐			77.78		P	24.4
6	☐			80.00		P	33.1
7	☐			131.11		P	8.9
8	☐			142.22		P	9.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	25.0
2	☐			33.34		P	17.3
3	☐			41.11		P	12.4
4	☐			52.22		P	14.7
5	☐			37.78		P	33.4
6	☐			48.89		P	56.8
7	☐			70.00		P	8.2
8	☐			82.22		P	16.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	38.0
2	☐	1.000	0.906	7090.80	0.0011	P	2.6
3	☐	50.000	46.083	356149.89	0.0577	P	0.4
4	☐	125.000	114.317	877207.56	0.1431	P	0.6
5	☐	250.000	244.568	1856193.77	0.3062	A	0.8
6	☐	500.000	502.529	3791729.46	0.6291	A	0.5
7	☐	1000.000	1001.625	7432374.13	1.2540	A	1.2
8	☐			1312.31	0.0003	P	28.6

$$y = 0.0013 * x + 3.7842E-006$$

$$R = 0.9999$$

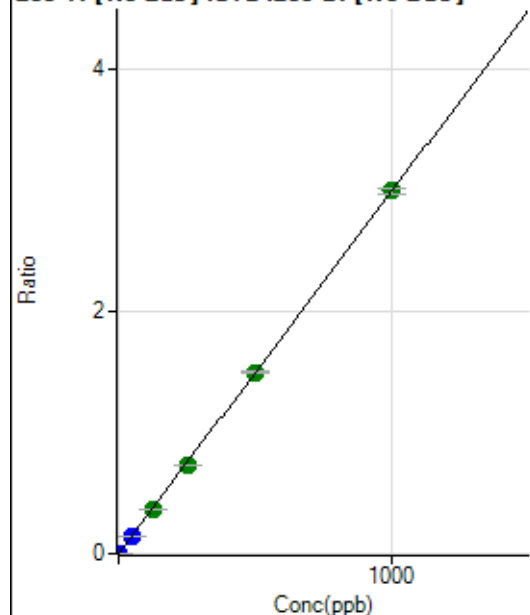
$$DL = 0.003445$$

$$BEC = 0.003023$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0000	P	9.1
2	☐	1.000	0.900	16846.09	0.0027	P	2.3
3	☐	50.000	45.916	847716.93	0.1373	P	0.4
4	☐	125.000	120.999	2218021.13	0.3619	A	1.0
5	☐	250.000	245.339	4447859.38	0.7338	A	0.9
6	☐	500.000	500.233	9016831.67	1.4961	A	1.0
7	☐	1000.000	1001.753	17755925.71	2.9960	A	1.8
8	☐			3299.35	0.0007	P	28.5

$$y = 0.0030 * x + 9.7194E-006$$

$$R = 1.0000$$

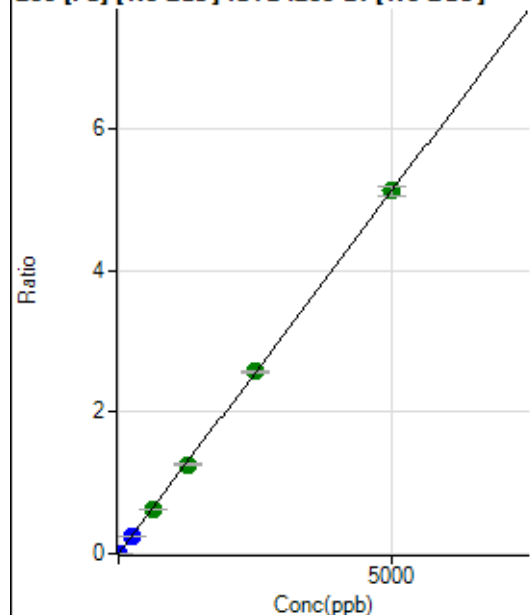
$$DL = 0.0008892$$

$$BEC = 0.00325$$

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	228.89	0.0000	P	10.3
2	☐	1.000	0.902	5995.82	0.0010	P	0.8
3	☐	250.000	230.623	1458760.81	0.2363	P	0.3
4	☐	625.000	600.133	3768856.05	0.6149	A	0.7
5	☐	1250.000	1223.514	7599244.05	1.2536	A	1.9
6	☐	2500.000	2509.699	15498475.19	2.5714	A	0.7
7	☐	5000.000	5005.849	30395465.10	5.1289	A	2.3
8	☐			7612.26	0.0016	P	18.7

$$y = 0.0010 * x + 3.7075E-005$$

$$R = 1.0000$$

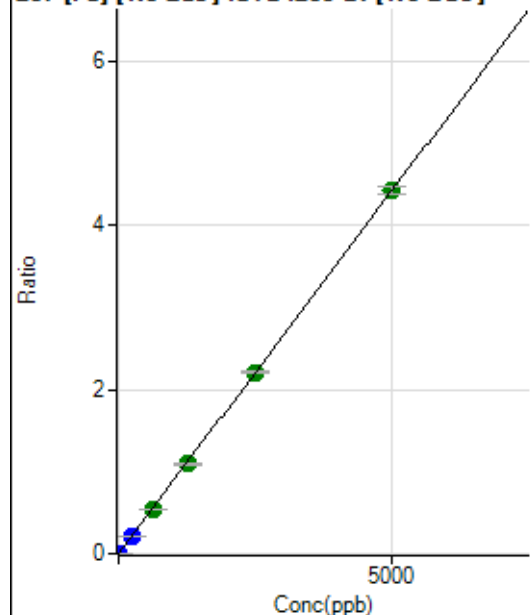
$$DL = 0.01117$$

$$BEC = 0.03619$$

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	174.45	0.0000	P	15.3
2	☐	1.000	0.918	5226.62	0.0008	P	2.8
3	☐	250.000	227.832	1240324.20	0.2009	P	0.4
4	☐	625.000	607.857	3285503.42	0.5361	A	1.2
5	☐	1250.000	1235.185	6602314.00	1.0892	A	1.0
6	☐	2500.000	2501.877	13296842.16	2.2063	A	0.4
7	☐	5000.000	5006.017	26161492.39	4.4145	A	2.2
8	☐			6461.66	0.0013	P	19.2

$$y = 8.8183E-004 * x + 2.8285E-005$$

$$R = 1.0000$$

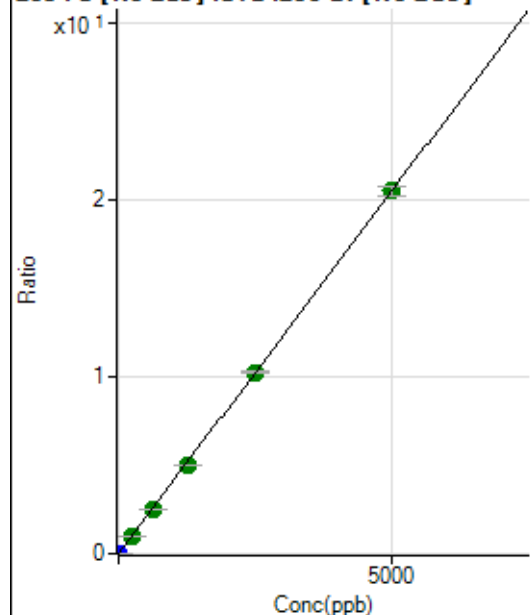
$$DL = 0.0147$$

$$BEC = 0.03208$$

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	947.80	0.0002	P	4.7
2	☐	1.000	0.890	23656.02	0.0038	P	0.2
3	☐	250.000	237.952	6009984.54	0.9737	A	1.1
4	☐	625.000	602.704	15113690.68	2.4659	A	0.6
5	☐	1250.000	1226.875	30425125.03	5.0195	A	0.9
6	☐	2500.000	2502.564	61708483.80	10.2385	A	1.0
7	☐	5000.000	5007.889	121414174.3	20.4882	A	2.6
8	☐			30022.66	0.0062	P	19.5

$$y = 0.0041 * x + 1.5357E-004$$

$$R = 1.0000$$

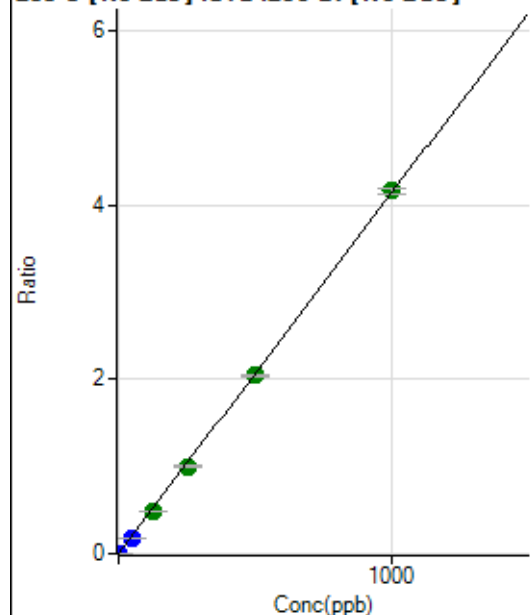
$$DL = 0.005322$$

$$BEC = 0.03754$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	132.
2	☐	1.000	0.813	21003.91	0.0034	P	0.9
3	☐	50.000	42.066	1075025.12	0.1742	P	0.4
4	☐	125.000	117.493	2981322.19	0.4864	A	0.8
5	☐	250.000	241.422	6057956.02	0.9995	A	1.8
6	☐	500.000	493.711	12319041.69	2.0440	A	1.6
7	☐	1000.000	1006.624	24699705.46	4.1675	A	1.7
8	☐			3362.76	0.0007	P	39.5

$$y = 0.0041 * x + 1.0880E-006$$

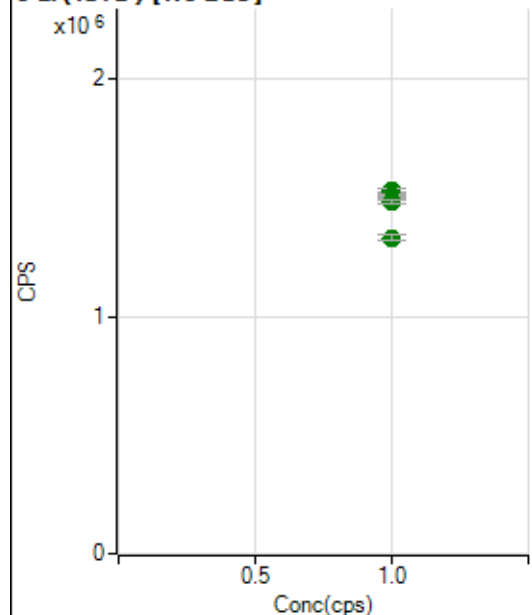
$$R = 0.9999$$

$$DL = 0.001047$$

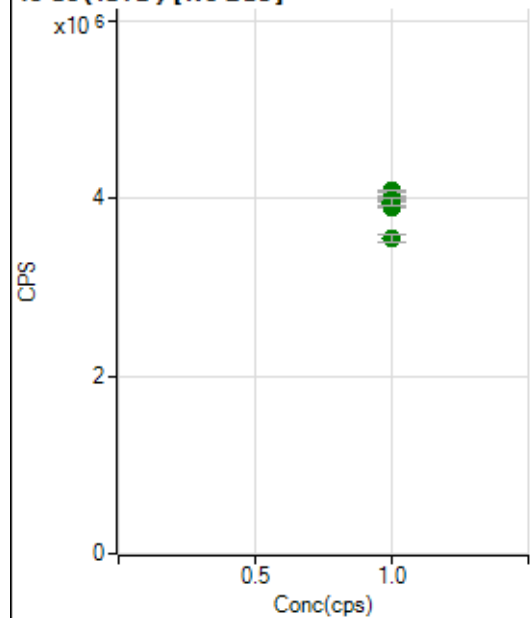
$$BEC = 0.0002628$$

Weight: <None>

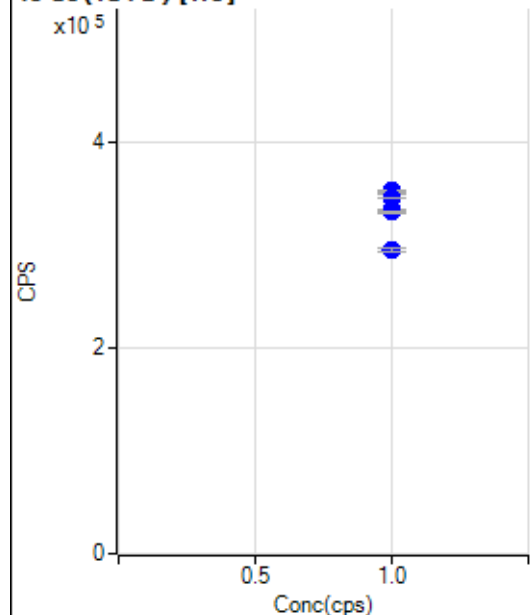
Min Conc: 0

6 Li (ISTD) [No Gas]

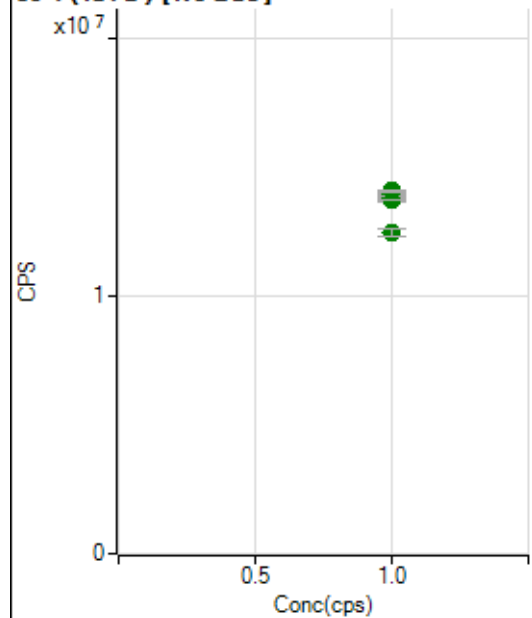
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1507113.66		A	1.2
2	☐	1.000		1518359.51		A	0.9
3	☐	1.000		1523980.76		A	1.6
4	☐	1.000		1529266.33		A	1.9
5	☐	1.000		1505856.28		A	1.3
6	☐	1.000		1492567.30		A	1.9
7	☐	1.000		1486621.04		A	1.1
8	☐	1.000		1331703.90		A	1.9

45 Sc (ISTD) [No Gas]

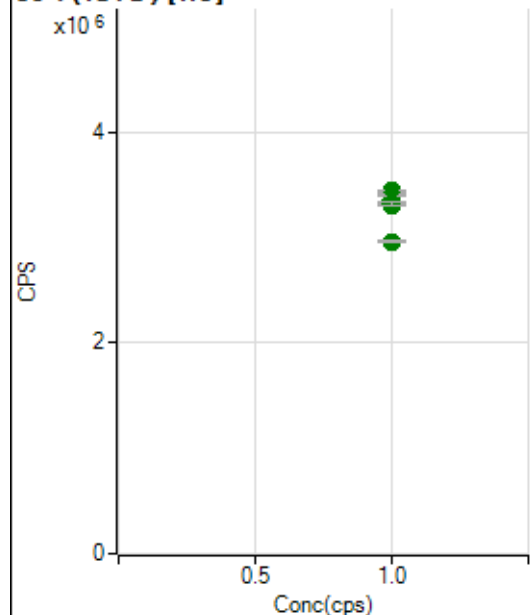
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4021527.48		A	0.7
2	☐	1.000		4084604.45		A	0.9
3	☐	1.000		3982633.90		A	0.6
4	☐	1.000		3968246.23		A	0.3
5	☐	1.000		3906500.53		A	0.8
6	☐	1.000		3936457.82		A	1.0
7	☐	1.000		3964770.78		A	1.9
8	☐	1.000		3558430.12		A	2.5

45 Sc (ISTD) [He]

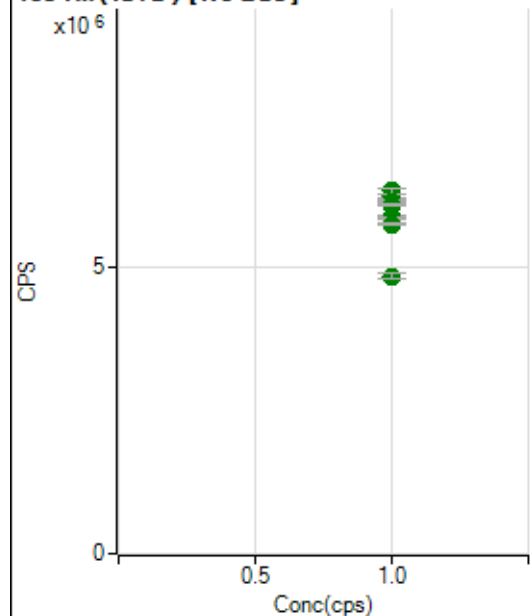
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		350787.52		P	0.9
2	☐	1.000		353225.70		P	0.5
3	☐	1.000		345628.88		P	0.1
4	☐	1.000		334733.14		P	0.6
5	☐	1.000		332543.87		P	0.6
6	☐	1.000		333159.28		P	0.4
7	☐	1.000		332742.49		P	0.8
8	☐	1.000		295093.34		P	1.2

89 Y (ISTD) [No Gas]

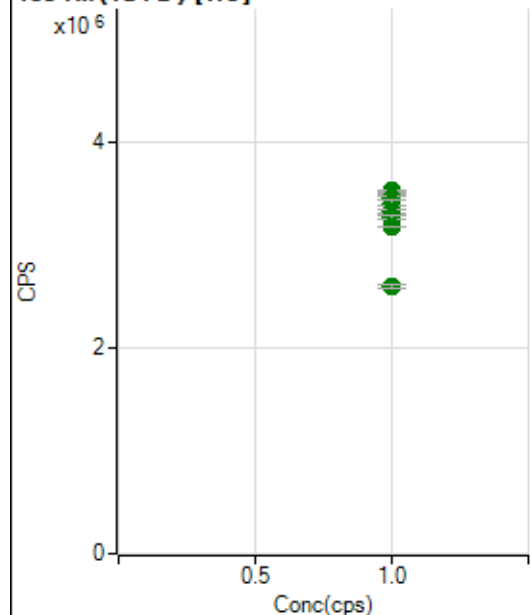
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13798306.04		A	0.5
2	☐	1.000		14002711.46		A	0.6
3	☐	1.000		13955142.16		A	1.4
4	☐	1.000		13861557.85		A	0.3
5	☐	1.000		13710079.38		A	0.6
6	☐	1.000		13794991.18		A	1.0
7	☐	1.000		14069000.90		A	0.4
8	☐	1.000		12436224.96		A	2.6

89 Y(ISTD) [He]

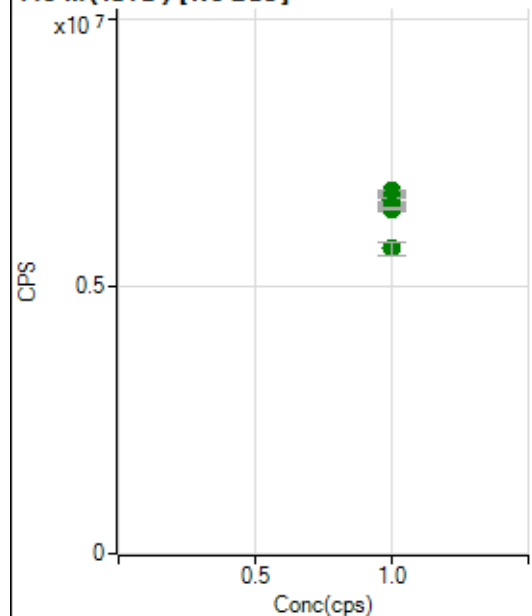
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3393266.69		A	0.4
2	☐	1.000		3438705.78		A	0.3
3	☐	1.000		3396336.93		A	0.5
4	☐	1.000		3353381.09		A	2.0
5	☐	1.000		3305822.80		A	0.8
6	☐	1.000		3314142.21		A	0.3
7	☐	1.000		3322043.25		A	1.2
8	☐	1.000		2956161.24		A	0.4

103 Rh(ISTD) [No Gas]

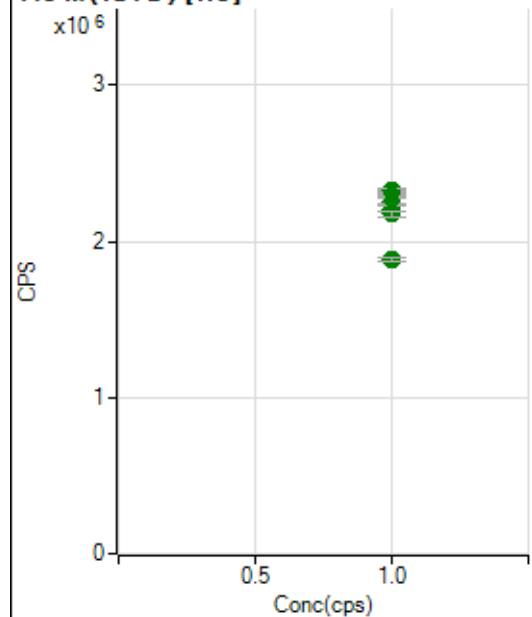
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6237879.07		A	1.3
2	☐	1.000		6322147.61		A	1.4
3	☐	1.000		6147194.77		A	0.7
4	☐	1.000		6079681.65		A	0.7
5	☐	1.000		5879674.42		A	0.9
6	☐	1.000		5851251.58		A	0.4
7	☐	1.000		5746677.55		A	0.2
8	☐	1.000		4835372.63		A	2.5

103 Rh (ISTD) [He]

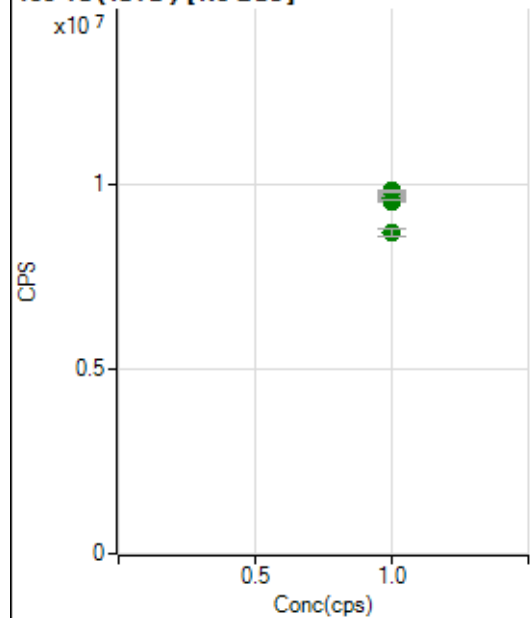
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3486203.18		A	0.5
2	☐	1.000		3518538.59		A	0.2
3	☐	1.000		3445528.00		A	0.8
4	☐	1.000		3396197.27		A	1.6
5	☐	1.000		3322537.55		A	1.1
6	☐	1.000		3266066.03		A	1.1
7	☐	1.000		3165369.43		A	0.2
8	☐	1.000		2593455.07		A	1.5

115 In (ISTD) [No Gas]

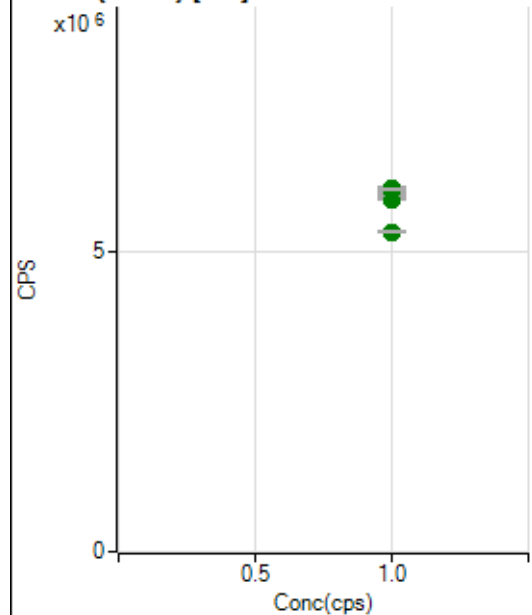
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6735570.94		A	0.3
2	☐	1.000		6777670.71		A	0.9
3	☐	1.000		6664284.90		A	0.7
4	☐	1.000		6606946.23		A	1.3
5	☐	1.000		6508978.29		A	0.4
6	☐	1.000		6421452.18		A	0.6
7	☐	1.000		6456292.43		A	0.5
8	☐	1.000		5703307.15		A	4.3

115 In (ISTD) [He]

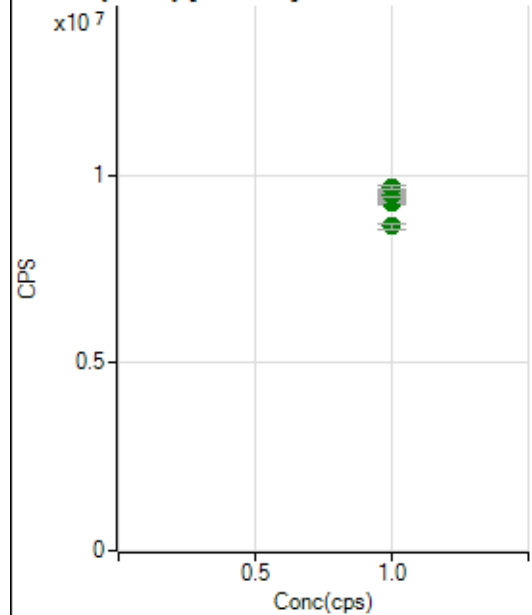
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2320114.17		A	1.0
2	☐	1.000		2322489.36		A	1.6
3	☐	1.000		2285639.59		A	0.7
4	☐	1.000		2250429.00		A	2.1
5	☐	1.000		2235958.16		A	0.0
6	☐	1.000		2209628.49		A	1.3
7	☐	1.000		2174645.42		A	1.6
8	☐	1.000		1884457.04		A	1.1

159 Tb (ISTD) [No Gas]

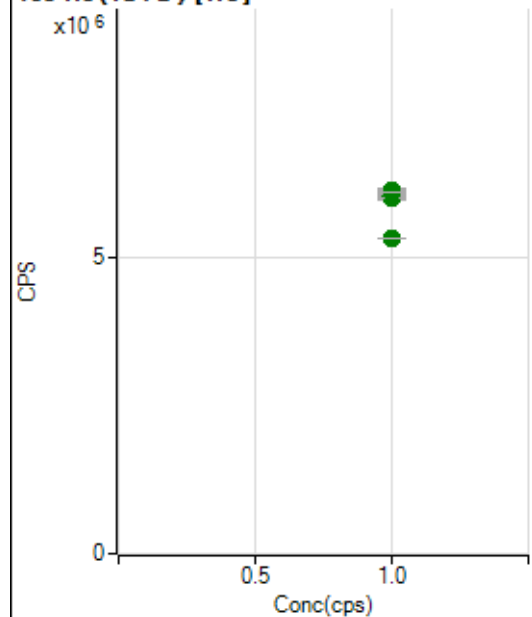
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9519619.65		A	0.1
2	☐	1.000		9775712.84		A	0.9
3	☐	1.000		9626586.04		A	2.0
4	☐	1.000		9571462.91		A	1.0
5	☐	1.000		9553605.97		A	0.6
6	☐	1.000		9632525.76		A	1.0
7	☐	1.000		9809893.26		A	0.8
8	☐	1.000		8686008.55		A	2.8

159 Tb (ISTD) [He]

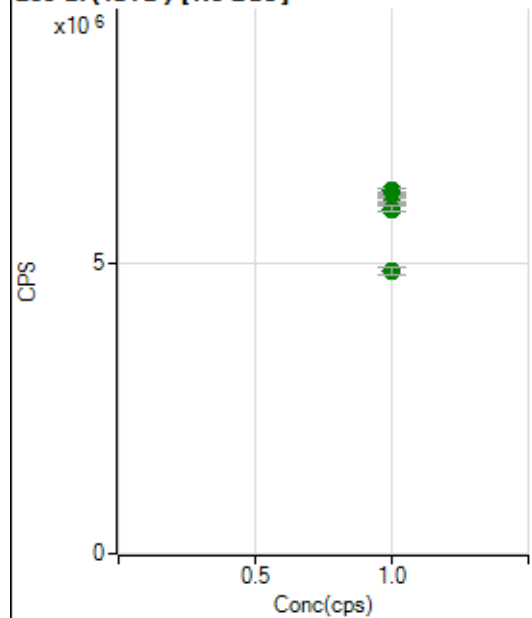
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5885788.24		A	0.7
2	☐	1.000		6007607.20		A	0.7
3	☐	1.000		5977920.74		A	1.4
4	☐	1.000		5939759.70		A	0.4
5	☐	1.000		6017001.99		A	0.9
6	☐	1.000		6048059.08		A	1.1
7	☐	1.000		6051902.06		A	0.6
8	☐	1.000		5337393.46		A	1.0

165 Ho (ISTD) [No Gas]

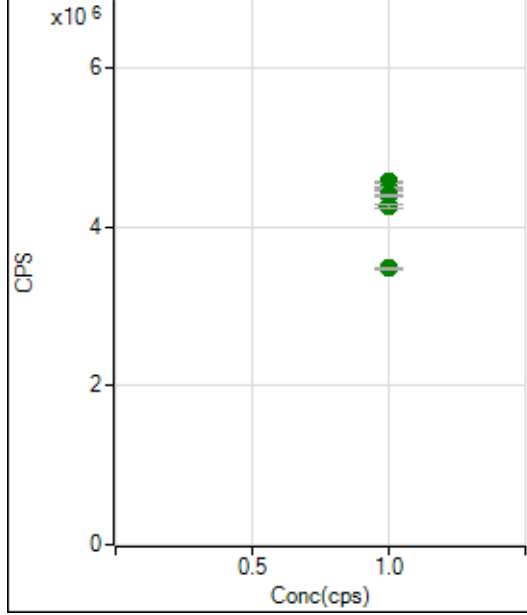
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9285059.72		A	1.2
2	☐	1.000		9551325.41		A	0.4
3	☐	1.000		9442570.90		A	0.6
4	☐	1.000		9338817.29		A	0.7
5	☐	1.000		9315986.18		A	0.3
6	☐	1.000		9475645.21		A	0.8
7	☐	1.000		9667425.34		A	1.1
8	☐	1.000		8642998.90		A	2.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6029772.90		A	1.0
2	☐	1.000		6043720.67		A	0.5
3	☐	1.000		5987637.41		A	0.5
4	☐	1.000		6037842.89		A	1.3
5	☐	1.000		6118110.95		A	1.0
6	☐	1.000		6109526.23		A	0.5
7	☐	1.000		6092610.95		A	0.2
8	☐	1.000		5317846.10		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6171860.95		A	0.8
2	☐	1.000		6235039.28		A	1.2
3	☐	1.000		6172679.56		A	0.7
4	☐	1.000		6129036.72		A	0.1
5	☐	1.000		6061834.91		A	1.2
6	☐	1.000		6027002.55		A	0.9
7	☐	1.000		5927874.91		A	1.9
8	☐	1.000		4848932.32		A	3.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4572798.68		A	0.8
2	☐	1.000		4559992.40		A	0.2
3	☐	1.000		4476827.64		A	0.7
4	☐	1.000		4491611.05		A	0.2
5	☐	1.000		4494281.95		A	0.5
6	☐	1.000		4401668.62		A	0.7
7	☐	1.000		4264163.69		A	0.9
8	☐	1.000		3482534.32		A	0.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7042623 MS.b

Acq. Date-Time 2023-04-26 07:07:44

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6319	63190.12			1.162	5.000
24		71137	711371.34			0.840	5.000
25		10203	102027.03			0.454	5.000
26		11529	115287.42			0.497	5.000
59		56298	562983.07			0.466	5.000
113		7231	72309.41			0.604	5.000
115		89522	895223.58			0.594	5.000
206		23373	233734.11			0.980	5.000
207		21674	216735.73			0.862	5.000
208		50475	504754.64			0.657	5.000
220		0	2.50			28.284	

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

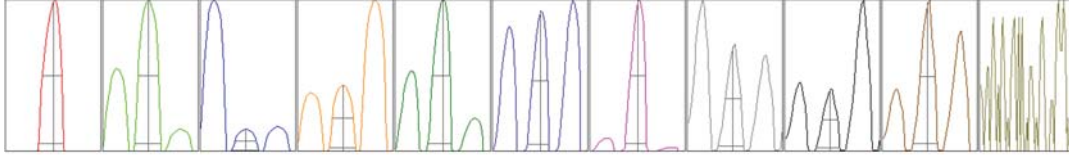
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6408	6344	6324	6314	6205
24	71327	70735	71959	71261	70403
25	10200	10219	10258	10207	10130
26	11496	11529	11614	11543	11461
59	55986	56155	56616	56520	56215
113	7173	7230	7295	7235	7221
115	88882	90314	89640	89537	89239
206	23058	23261	23673	23447	23428
207	21388	21617	21753	21888	21721
208	49946	50505	50592	50855	50479

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	11121.39	9.05	8.90 - 9.10	
24	115555.05	23.95	23.90 - 24.10	
25	16211.97	24.95	24.90 - 25.10	
26	18438.13	25.95	25.90 - 26.10	
59	105965.87	59.05	58.90 - 59.10	
113	15522.63	113.05	112.90 - 113.10	
115	192448.32	115.05	114.90 - 115.10	
206	48758.72	205.95	205.90 - 206.10	
207	44542.18	206.95	206.90 - 207.10	
208	107354.07	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.784	0.900	
24	0.64	0.828	0.900	
25	0.66	0.828	0.900	
26	0.66	0.831	0.900	
59	0.55	0.752	0.900	
113	0.48	0.685	0.900	
115	0.47	0.680	0.900	
206	0.49	0.809	0.900	
207	0.49	0.740	0.900	
208	0.47	0.769	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	16.8 V
Extract 2	-95.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18527	185265.55			1.237	
89		27034	270338.67			0.980	
205		22062	220621.93			1.839	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18464	18631	18714	18154	18671
89	27009	27058	27159	26614	27330
205	21984	22304	22432	21399	22192

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-110.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
---------	---------	---------	--------

EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
---------------	--------	-----------	--------	----------	--------