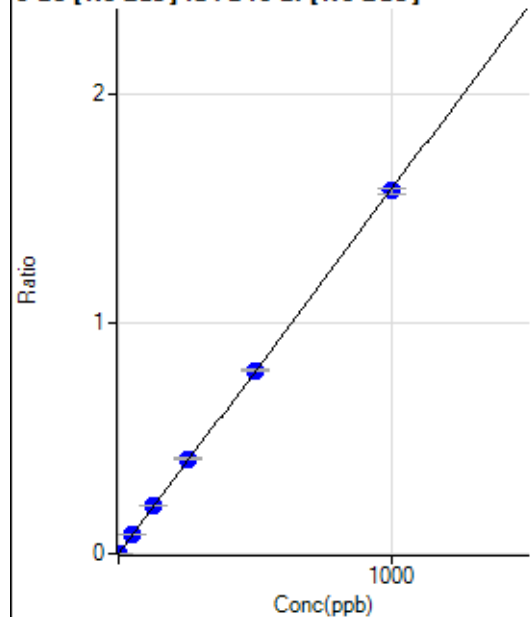


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7111125-MS.b\
 Analysis File: P7111125-MS.batch.bin
 DA Date-Time: 2025-11-11 19:35:39
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-11-11 15:57:26
2	005CALS.d	S02	2025-11-11 16:00:44
3	006CALS.d	S03	2025-11-11 16:04:02
4	007CALS.d	S04	2025-11-11 16:07:12
5	008CALS.d	S05	2025-11-11 16:10:14
6	009CALS.d	S06	2025-11-11 16:13:09
7	010CALS.d	S07	2025-11-11 16:15:59
8	011CALS.d	S08	2025-11-11 16:18:43

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	1.000	1.071	911.15	0.0017	P	3.0
3	☐	50.000	52.256	45665.75	0.0828	P	2.4
4	☐	125.000	132.241	113940.85	0.2094	P	0.9
5	☐	250.000	261.021	219655.25	0.4134	P	1.2
6	☐	500.000	502.137	405574.71	0.7953	P	0.9
7	☐	1000.000	995.158	727565.16	1.5761	P	1.3
8	☐			271.12	0.0006	P	19.7

$$y = 0.0016 * x + 1.2505E-005$$

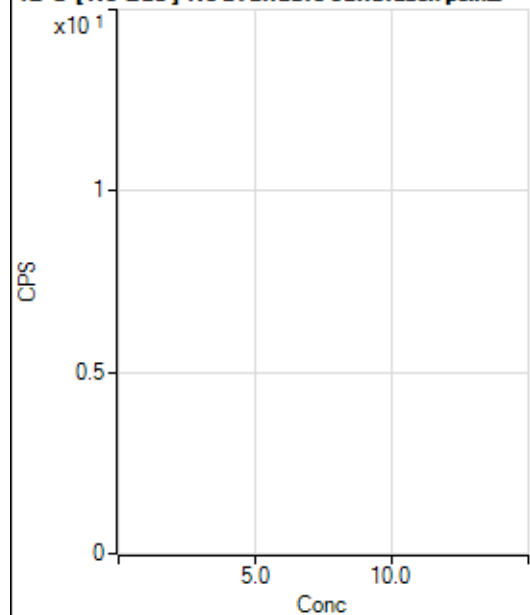
$$R = 0.9999$$

$$DL = 0.02051$$

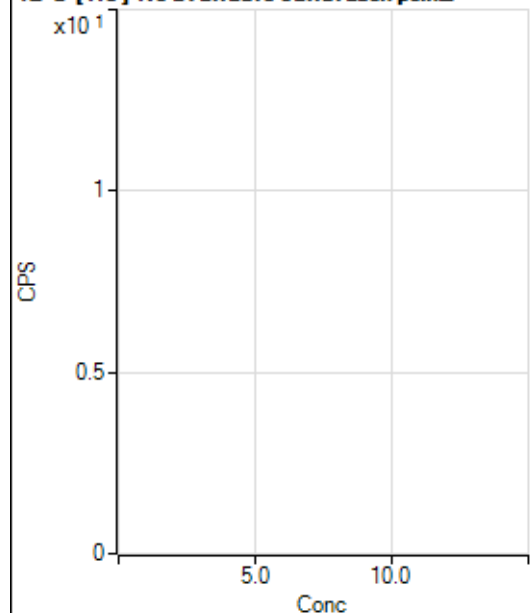
$$BEC = 0.007896$$

Weight: <None>

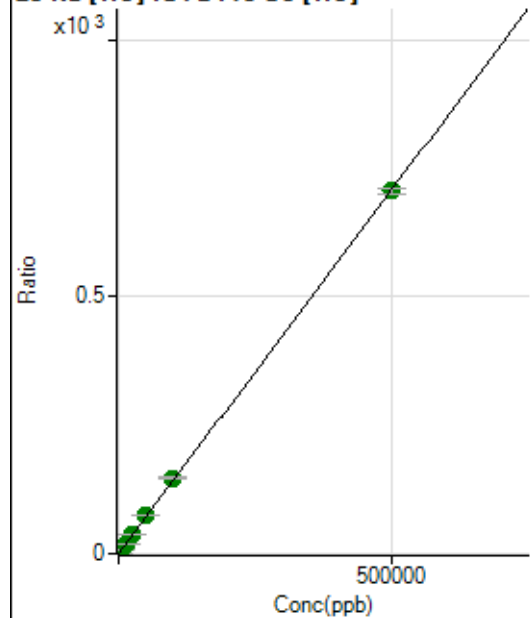
Min Conc: <None>

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	14187.72	0.0532	P	2.1
2	☐	500.000	486.169	200837.92	0.7418	P	0.5
3	☐	5000.000	5225.464	2038870.52	7.4536	A	2.9
4	☐	12500.000	13029.900	4962636.35	18.5064	A	1.2
5	☐	25000.000	26108.592	9440478.82	37.0288	A	0.4
6	☐	50000.000	51822.299	17804206.40	73.4450	A	1.1
7	☐	100000.00	104210.42	34044520.60	147.6382	A	1.5
8	☐	500000.00	498904.76	168525710.8	706.6124	A	1.5

$$y = 0.0014 * x + 0.0532$$

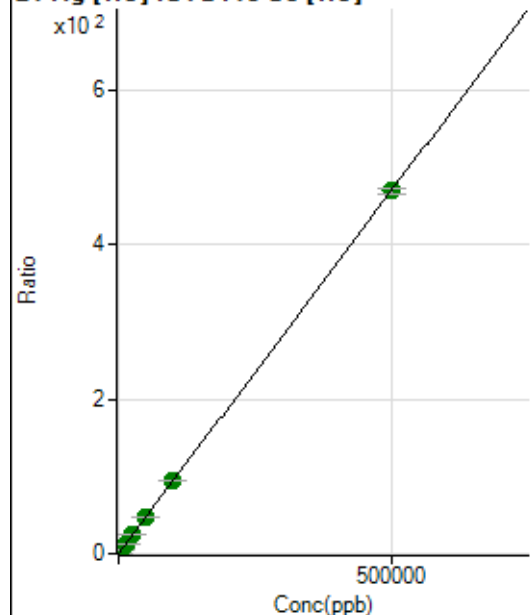
$$R = 1.0000$$

$$DL = 2.377$$

$$BEC = 37.59$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	200.00	0.0008	P	16.7
2	☐	500.000	478.436	121845.14	0.4501	P	0.6
3	☐	5000.000	5125.521	1316874.44	4.8141	A	1.6
4	☐	12500.000	12719.918	3203366.83	11.9461	A	1.3
5	☐	25000.000	25841.116	6187564.35	24.2682	A	1.2
6	☐	50000.000	50561.337	11510761.77	47.4831	A	1.1
7	☐	100000.00	101223.70	21920857.45	95.0603	A	1.3
8	☐	500000.00	499650.33	111910483.8	469.2243	A	1.3

$$y = 9.3910E-004 * x + 7.5048E-004$$

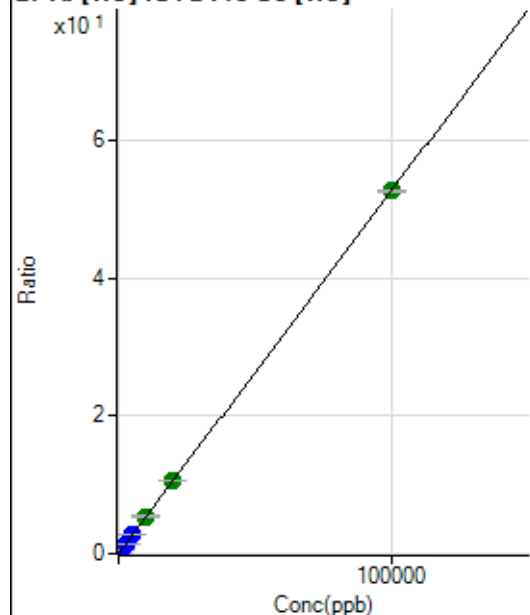
$$R = 1.0000$$

$$DL = 0.4011$$

$$BEC = 0.7991$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	492.23	0.0018	P	11.4
2	☐	20.000	20.734	3459.31	0.0128	P	4.0
3	☐	1000.000	1001.216	144954.50	0.5299	P	1.5
4	☐	2500.000	2491.922	352938.02	1.3162	P	1.0
5	☐	5000.000	5044.807	678853.89	2.6626	P	0.2
6	☐	10000.000	10288.530	1315943.06	5.4283	A	0.8
7	☐	20000.000	20056.370	2439968.80	10.5801	A	0.2
8	☐	100000.00	99957.822	12575292.31	52.7224	A	0.6

$$y = 5.2743E-004 * x + 0.0018$$

$$R = 1.0000$$

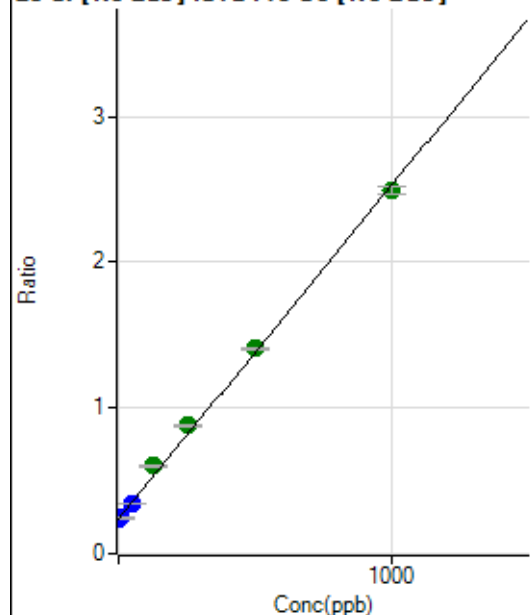
$$DL = 1.196$$

$$BEC = 3.498$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	645033.54	0.2388	P	2.9
2	☐	10.000	2.734	659210.59	0.2451	P	1.5
3	☐	50.000	46.145	940592.83	0.3444	P	1.3
4	☐	125.000	158.559	1597690.83	0.6016	A	1.1
5	☐	250.000	279.207	2261213.84	0.8776	A	0.8
6	☐	500.000	510.504	3469830.75	1.4067	A	1.2
7	☐	1000.000	983.517	5610434.36	2.4888	A	2.3
8	☐			705722.09	0.3112	P	2.1

$$y = 0.0023 * x + 0.2388$$

$$R = 0.9987$$

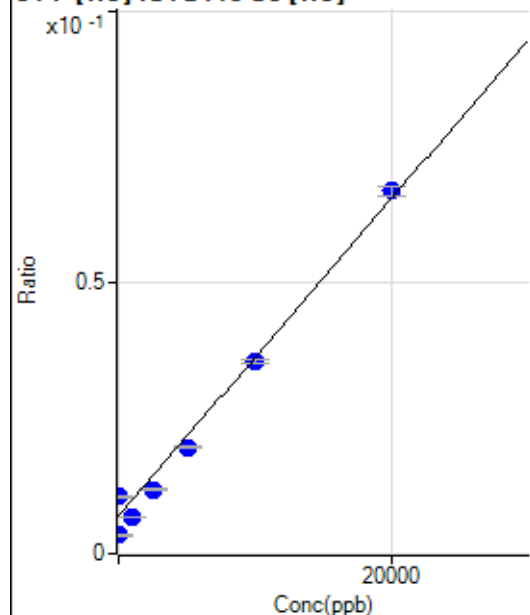
$$DL = 9.048$$

$$BEC = 104.4$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1200.060	923.37	0.0035	P	6.3
2	☐	0.000	1200.060	2838.07	0.0105	P	3.1
3	☐	1000.000	-76.630	1845.68	0.0067	P	2.4
4	☐	2500.000	1656.436	3168.13	0.0118	P	4.1
5	☐	5000.000	4323.530	5000.87	0.0196	P	0.6
6	☐	10000.000	9707.860	8572.48	0.0354	P	2.3
7	☐	20000.000	20474.464	15414.56	0.0668	P	2.6
8	☐			870.03	0.0036	P	7.1

$$y = 2.9244E-006 * x + 0.0070$$

$$R = 0.9941$$

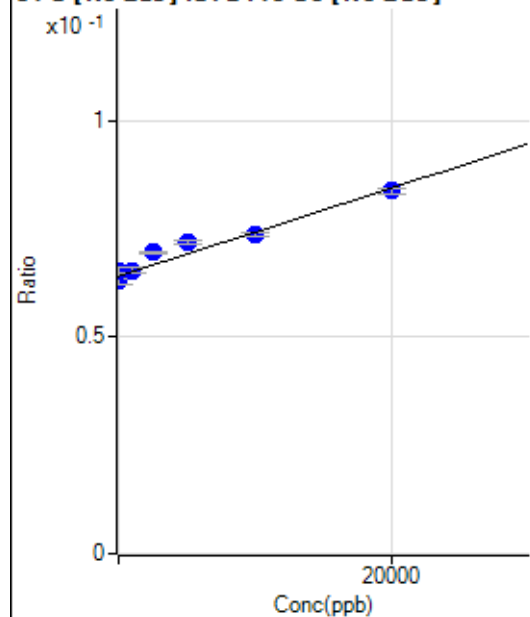
$$DL = 281.9$$

$$BEC = 2384$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1164.961	169986.82	0.0629	P	2.5
2	☐	0.000	1164.961	175660.94	0.0653	P	2.1
3	☐	1000.000	1348.759	178873.16	0.0655	P	1.8
4	☐	2500.000	5353.331	184788.90	0.0696	P	1.1
5	☐	5000.000	7621.597	185229.80	0.0719	P	1.3
6	☐	10000.000	9290.736	181526.30	0.0736	P	1.4
7	☐	20000.000	19325.128	188969.46	0.0838	P	1.4
8	☐			158043.76	0.0697	P	3.5

$$y = 1.0193\text{E-}006 * x + 0.0641$$

$$R = 0.9751$$

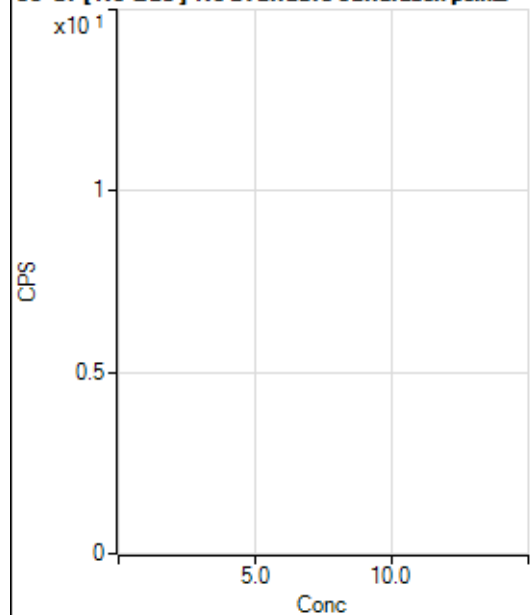
$$DL = 4366$$

$$BEC = 6.291\text{E}+04$$

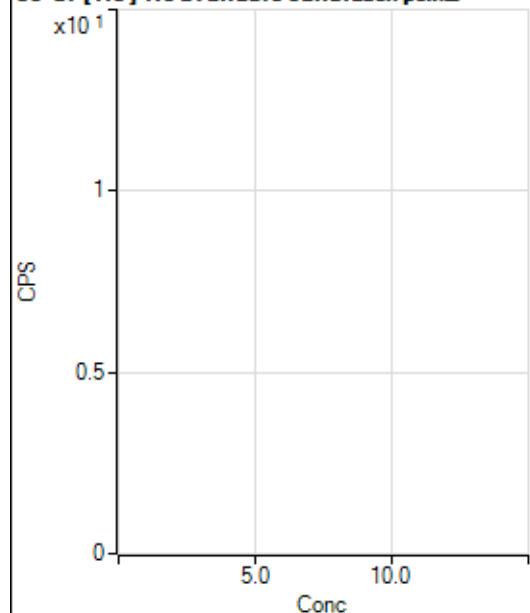
Weight: <None>

Min Conc: <None>

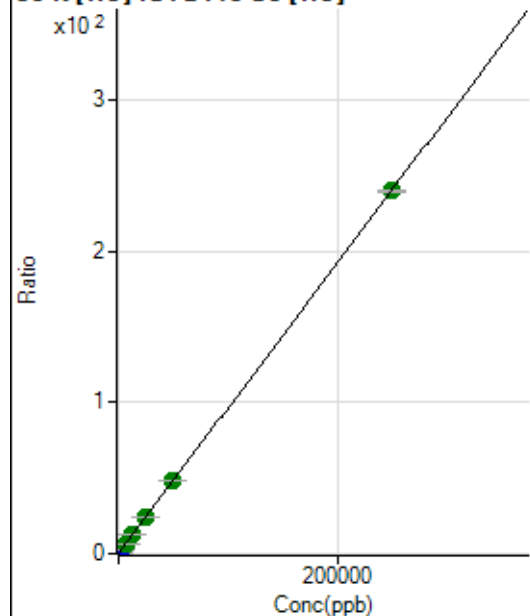
35 Cl [No Gas] No available calibration points



	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	48569.37	0.1822	P	0.9
2	☐	500.000	495.726	178031.70	0.6576	P	0.4
3	☐	2500.000	2645.797	743859.96	2.7194	P	0.8
4	☐	6250.000	6386.505	1691193.83	6.3065	A	0.6
5	☐	12500.000	12820.772	3180819.96	12.4766	A	1.1
6	☐	25000.000	25054.373	5868428.11	24.2079	A	0.7
7	☐	50000.000	50182.480	11139622.61	48.3042	A	1.7
8	☐	250000.00	249937.16	57212283.04	239.8573	A	0.8

$$y = 9.5894\text{E-}004 * x + 0.1822$$

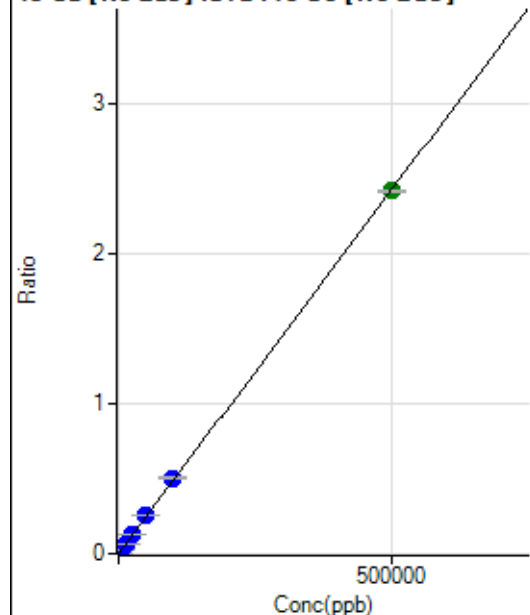
$$R = 1.0000$$

$$DL = 4.916$$

$$BEC = 190$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	260.01	0.0001	P	5.2
2	☐	500.000	509.693	6910.54	0.0026	P	2.7
3	☐	5000.000	5329.022	70877.06	0.0259	P	0.6
4	☐	12500.000	13454.944	173615.92	0.0654	P	0.6
5	☐	25000.000	26789.078	335105.61	0.1301	P	1.1
6	☐	50000.000	51939.208	621747.56	0.2521	P	1.1
7	☐	100000.00	104314.49	1141013.47	0.5061	P	2.1
8	☐	500000.00	498826.55	5491492.66	2.4200	A	0.7

$$y = 4.8512\text{E-}006 * x + 9.6126\text{E-}005$$

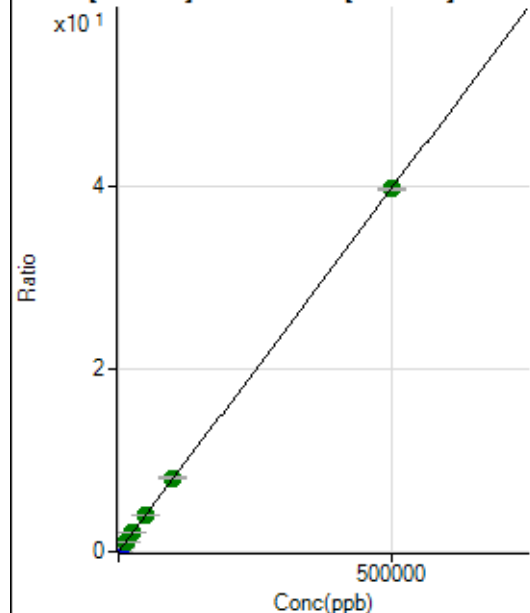
$$R = 1.0000$$

$$DL = 3.086$$

$$BEC = 19.81$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11785.94	0.0044	P	4.2
2	☐	500.000	502.183	118858.37	0.0442	P	1.1
3	☐	5000.000	5271.478	1153577.70	0.4224	P	1.1
4	☐	12500.000	12967.660	2742619.23	1.0327	A	0.9
5	☐	25000.000	25465.565	5214925.41	2.0237	A	1.1
6	☐	50000.000	50212.638	9832252.35	3.9861	A	0.5
7	☐	100000.00	100963.54	18055855.01	8.0104	A	3.1
8	☐	500000.00	499748.34	89915625.33	39.6327	A	0.6

$$y = 7.9297\text{E-}005 * x + 0.0044$$

$$R = 1.0000$$

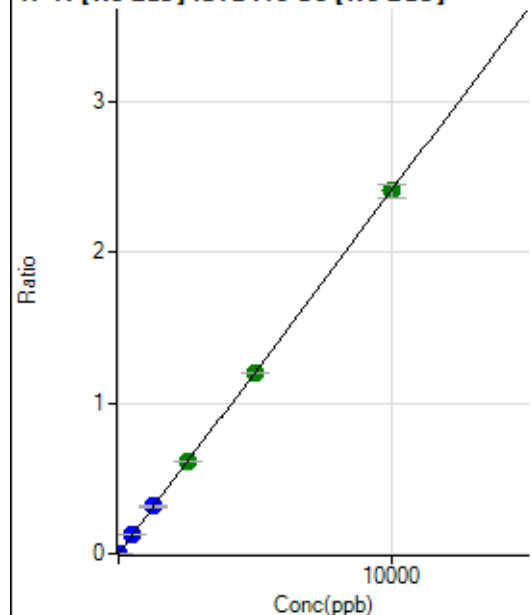
$$DL = 6.924$$

$$BEC = 55.04$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	39.1
2	☐	5.000	4.823	3175.91	0.0012	P	4.3
3	☐	500.000	510.816	336252.04	0.1231	P	0.8
4	☐	1250.000	1297.378	830398.93	0.3127	P	0.6
5	☐	2500.000	2540.442	1577361.92	0.6122	A	1.7
6	☐	5000.000	4991.545	2967161.69	1.2029	A	0.2
7	☐	10000.000	9987.654	5424733.39	2.4068	A	3.7
8	☐			1011.15	0.0004	P	6.4

$$y = 2.4098\text{E-}004 * x + 1.8637\text{E-}005$$

$$R = 1.0000$$

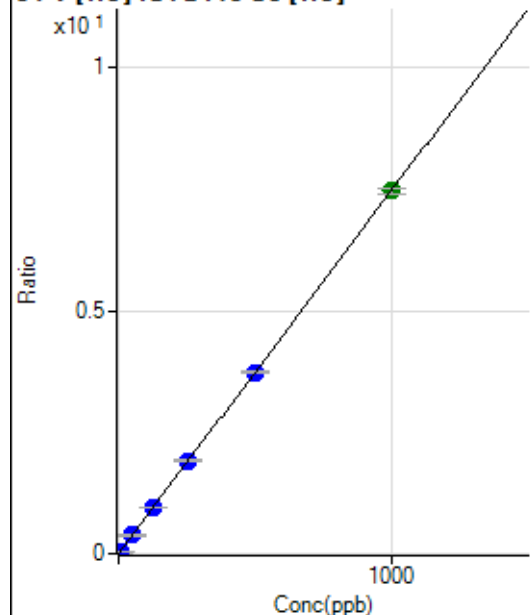
$$DL = 0.09079$$

$$BEC = 0.07734$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.78	0.0000	P	26.2
2	☐	5.000	4.792	9695.41	0.0358	P	2.8
3	☐	50.000	50.329	102834.42	0.3759	P	0.2
4	☐	125.000	126.607	253574.94	0.9456	P	1.5
5	☐	250.000	255.158	485861.07	1.9058	P	1.9
6	☐	500.000	498.825	903175.65	3.7257	P	0.9
7	☐	1000.000	999.082	1720662.77	7.4621	A	1.9
8	☐			3157.03	0.0132	P	2.1

$$y = 0.0075 * x + 2.9255\text{E-}005$$

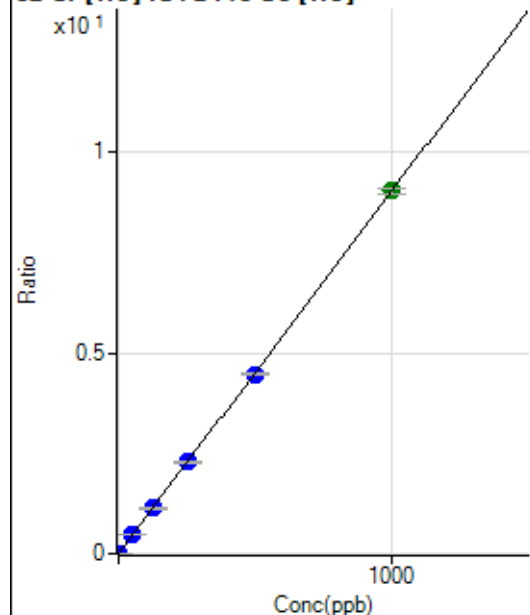
$$R = 1.0000$$

$$DL = 0.003084$$

$$BEC = 0.003917$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	904.48	0.0034	P	7.3
2	☐	2.000	1.885	5526.62	0.0204	P	1.1
3	☐	50.000	50.188	124903.64	0.4566	P	0.4
4	☐	125.000	125.246	304193.62	1.1344	P	2.0
5	☐	250.000	252.166	581428.15	2.2806	P	1.2
6	☐	500.000	495.758	1086112.38	4.4803	P	1.2
7	☐	1000.000	1001.539	2086381.55	9.0478	A	1.7
8	☐			37573.42	0.1575	P	1.0

$$y = 0.0090 * x + 0.0034$$

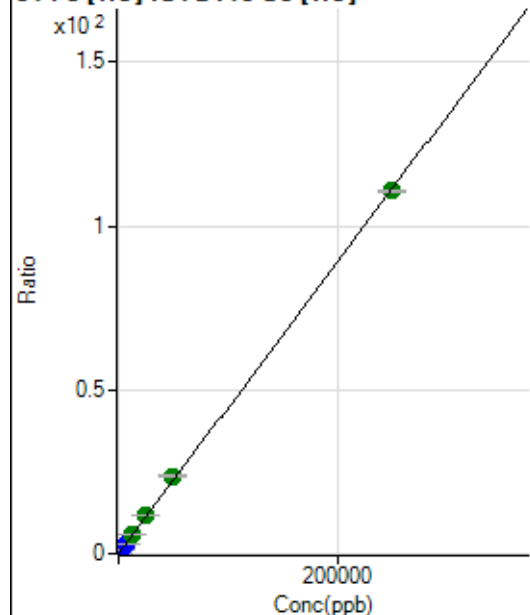
$$R = 1.0000$$

$$DL = 0.08226$$

$$BEC = 0.3756$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1607.88	0.0060	P	3.2
2	☐	50.000	52.258	7921.04	0.0292	P	3.0
3	☐	2500.000	2785.582	340182.60	1.2436	P	0.9
4	☐	6250.000	6924.444	826617.83	3.0824	P	0.3
5	☐	12500.000	13501.554	1530926.89	6.0045	A	0.5
6	☐	25000.000	26705.550	2877559.16	11.8708	A	2.1
7	☐	50000.000	53005.049	5431365.47	23.5552	A	2.2
8	☐	250000.00	249158.64	26405472.94	110.7025	A	0.6

$$y = 4.4428E-004 * x + 0.0060$$

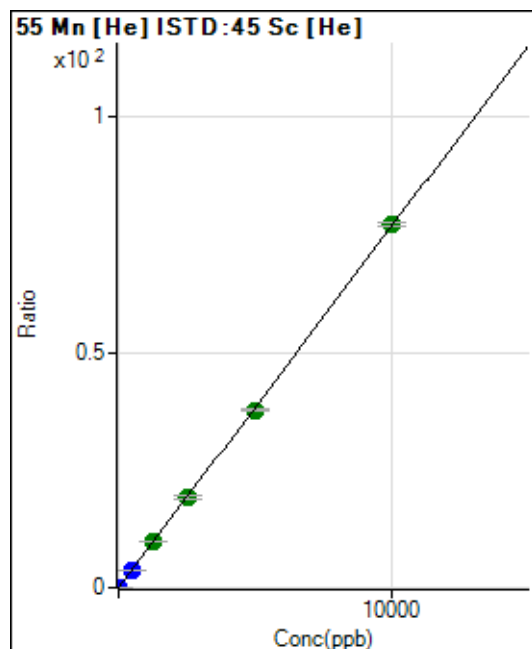
$$R = 0.9999$$

$$DL = 1.302$$

$$BEC = 13.58$$

Weight: <None>

Min Conc: <None>



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	553.35	0.0021	P	10.8
2	☐	1.000	1.013	2664.71	0.0098	P	4.0
3	☐	500.000	500.231	1050481.21	3.8403	P	0.6
4	☐	1250.000	1264.104	2601363.83	9.7014	A	1.8
5	☐	2500.000	2505.896	4902066.28	19.2294	A	2.8
6	☐	5000.000	4901.855	9118114.45	37.6133	A	1.1
7	☐	10000.000	10045.824	17776298.76	77.0822	A	1.1
8	☐			17232.18	0.0722	P	2.0

$$y = 0.0077 * x + 0.0021$$

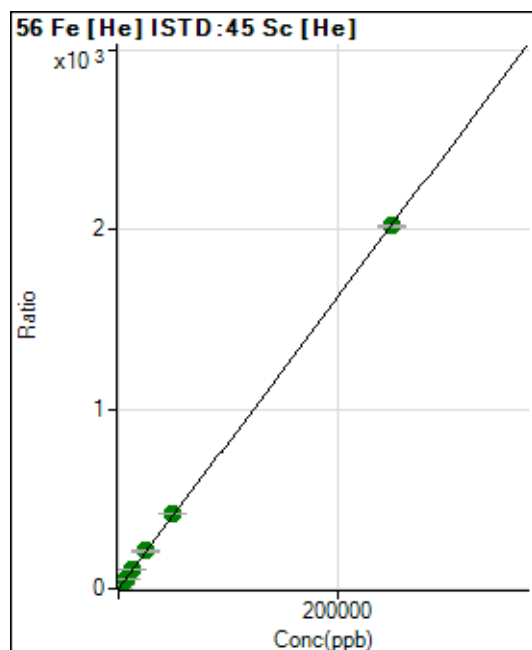
$$R = 0.9999$$

$$DL = 0.08771$$

$$BEC = 0.2703$$

Weight: <None>

Min Conc: <None>



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14802.94	0.0555	P	1.8
2	☐	50.000	51.525	128107.98	0.4732	P	0.5
3	☐	2500.000	2615.439	5814202.90	21.2551	A	0.7
4	☐	6250.000	6502.543	14149335.76	52.7622	A	1.3
5	☐	12500.000	13267.232	27431074.32	107.5938	A	0.6
6	☐	25000.000	25842.119	50788930.35	209.5202	A	2.2
7	☐	50000.000	51501.565	96281546.34	417.5042	A	0.2
8	☐	250000.00	249569.64	482519032.8	2,022.955	A	0.8

$$y = 0.0081 * x + 0.0555$$

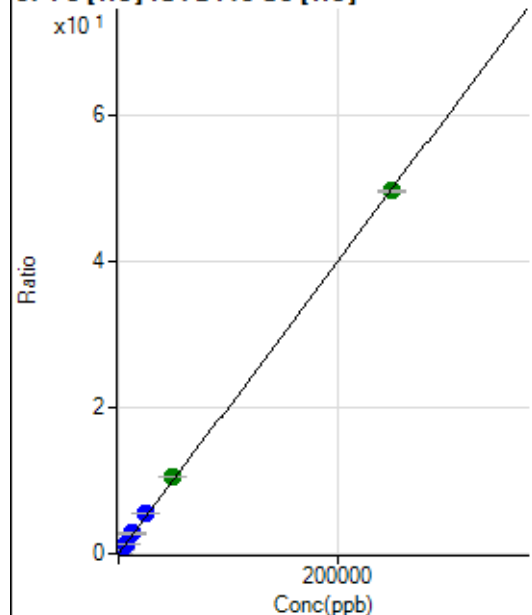
$$R = 1.0000$$

$$DL = 0.3694$$

$$BEC = 6.851$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1145.41	0.0043	P	2.4
2	☐	50.000	54.879	4121.17	0.0152	P	2.6
3	☐	2500.000	2767.382	151899.84	0.5553	P	2.2
4	☐	6250.000	6933.146	371309.35	1.3847	P	1.8
5	☐	12500.000	13869.851	705148.87	2.7659	P	1.4
6	☐	25000.000	27215.363	1314646.08	5.4231	P	0.9
7	☐	50000.000	52822.460	2426176.47	10.5216	A	2.0
8	☐	250000.00	249125.72	11831696.05	49.6070	A	0.9

$$y = 1.9911\text{E-}004 * x + 0.0043$$

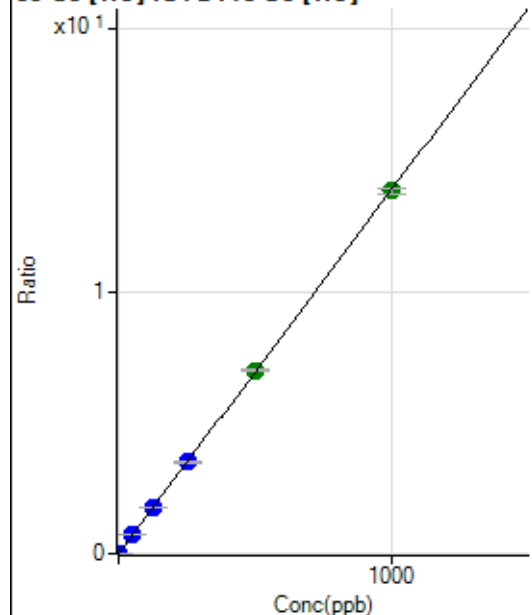
$$R = 0.9999$$

$$DL = 1.543$$

$$BEC = 21.58$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0002	P	28.3
2	☐	1.000	1.017	3886.10	0.0144	P	1.0
3	☐	50.000	50.968	193392.64	0.7070	P	0.3
4	☐	125.000	126.758	471398.22	1.7579	P	1.3
5	☐	250.000	252.749	893546.48	3.5050	P	1.6
6	☐	500.000	503.243	1691694.37	6.9784	A	0.9
7	☐	1000.000	997.423	3189348.28	13.8310	A	1.4
8	☐			11167.57	0.0468	P	1.6

$$y = 0.0139 * x + 2.4572\text{E-}004$$

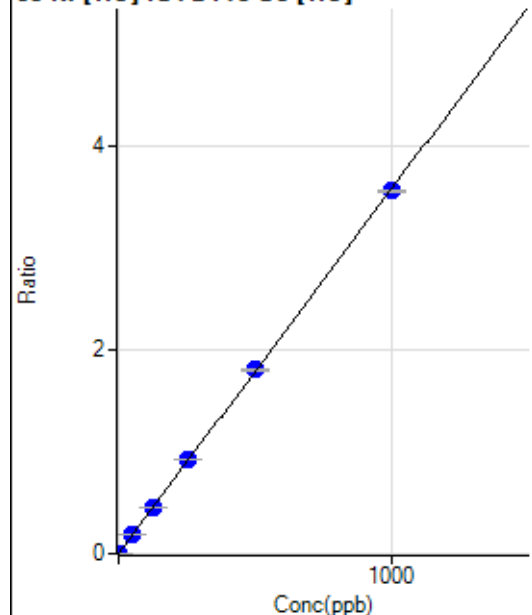
$$R = 1.0000$$

$$DL = 0.01502$$

$$BEC = 0.01772$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	225.56	0.0008	P	9.8
2	☐	1.000	0.887	1088.94	0.0040	P	2.5
3	☐	50.000	51.735	50913.96	0.1861	P	0.4
4	☐	125.000	127.751	122914.63	0.4584	P	1.3
5	☐	250.000	258.606	236337.76	0.9270	P	1.4
6	☐	500.000	505.117	438743.14	1.8099	P	0.9
7	☐	1000.000	994.860	821841.31	3.5638	P	0.6
8	☐			10945.22	0.0459	P	2.0

$$y = 0.0036 * x + 8.4570E-004$$

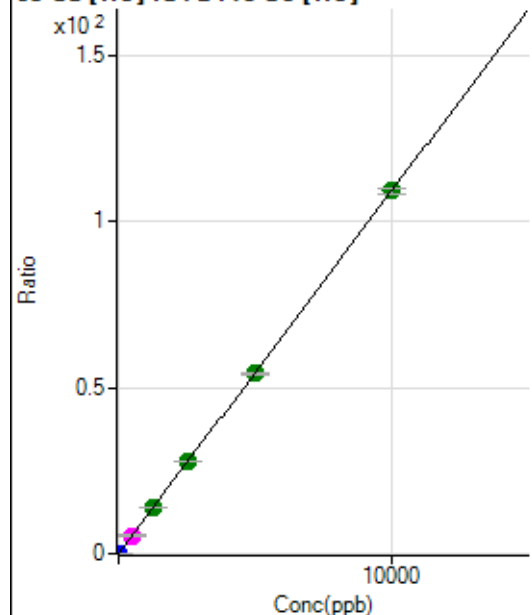
$$R = 0.9999$$

$$DL = 0.06951$$

$$BEC = 0.2361$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	934.48	0.0035	P	4.6
2	☐	2.000	1.787	6231.36	0.0230	P	1.1
3	☐	500.000	502.690	1502641.16	5.4933	M	0.6
4	☐	1250.000	1269.373	3717840.15	13.8660	A	3.0
5	☐	2500.000	2540.848	7075119.69	27.7515	A	1.3
6	☐	5000.000	4963.765	13141639.25	54.2116	A	1.6
7	☐	10000.000	10005.349	25196160.46	109.2696	A	1.8
8	☐			8732.63	0.0366	P	2.8

$$y = 0.0109 * x + 0.0035$$

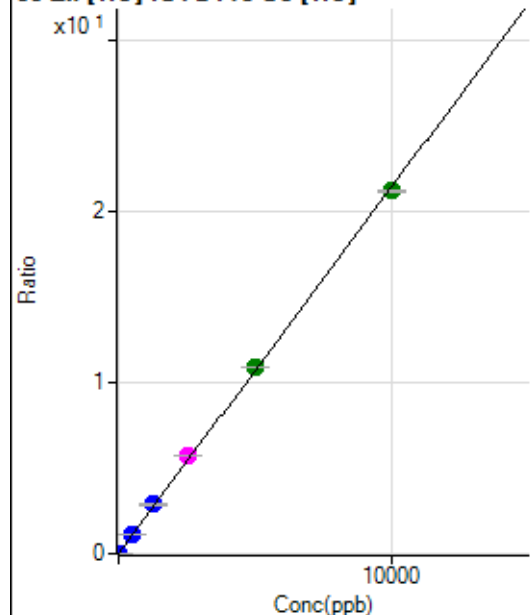
$$R = 1.0000$$

$$DL = 0.04453$$

$$BEC = 0.3211$$

Weight: <None>

Min Conc: <None>

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1686.78	0.0063	P	1.7
2	☐	5.000	5.083	4657.44	0.0172	P	3.0
3	☐	500.000	534.433	314542.80	1.1499	P	0.8
4	☐	1250.000	1339.812	770442.03	2.8732	P	1.6
5	☐	2500.000	2662.322	1454009.04	5.7030	M	0.9
6	☐	5000.000	5097.862	2645912.08	10.9145	A	0.3
7	☐	10000.000	9897.540	4885614.82	21.1846	A	0.6
8	☐			8579.20	0.0360	P	1.5

$$y = 0.0021 * x + 0.0063$$

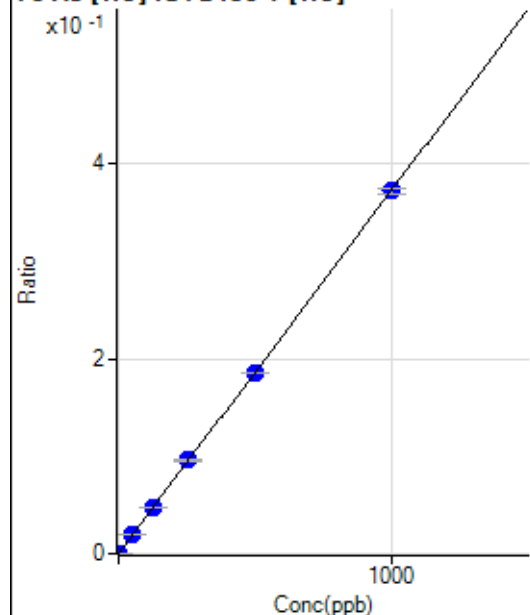
$$R = 0.9998$$

$$DL = 0.1477$$

$$BEC = 2.957$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17.41	0.0000	P	15.8
2	☐	1.000	1.173	966.32	0.0004	P	1.4
3	☐	50.000	51.550	42394.52	0.0192	P	1.4
4	☐	125.000	128.104	102921.22	0.0477	P	1.8
5	☐	250.000	256.979	196562.86	0.0956	P	1.2
6	☐	500.000	497.665	367949.38	0.1852	P	0.4
7	☐	1000.000	998.957	692307.60	0.3718	P	1.6
8	☐			1956.24	0.0010	P	4.0

$$y = 3.7215E-004 * x + 8.0484E-006$$

$$R = 1.0000$$

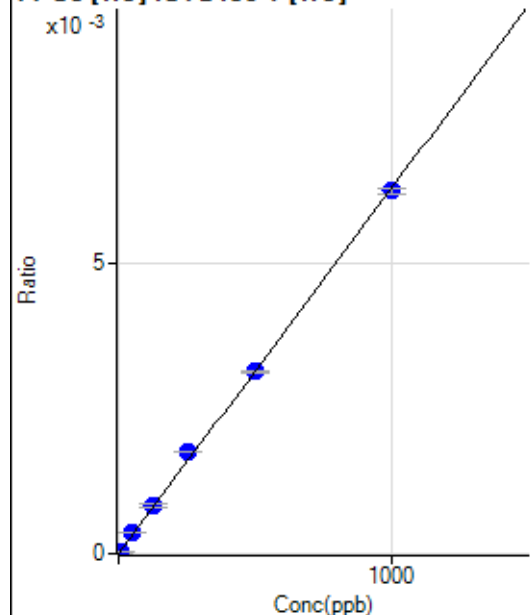
$$DL = 0.01024$$

$$BEC = 0.02163$$

Weight: <None>

Min Conc: <None>

77 Se [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	☐	5.000	6.734	93.34	0.0000	P	25.2
3	☐	50.000	57.082	795.58	0.0004	P	5.8
4	☐	125.000	132.973	1810.13	0.0008	P	6.2
5	☐	250.000	277.332	3592.70	0.0017	P	0.7
6	☐	500.000	497.470	6228.04	0.0031	P	2.0
7	☐	1000.000	993.073	11652.46	0.0063	P	1.9
8	☐			18.89	0.0000	P	67.7

$$y = 6.3006\text{E-}006 * x + 5.0756\text{E-}007$$

$$R = 0.9996$$

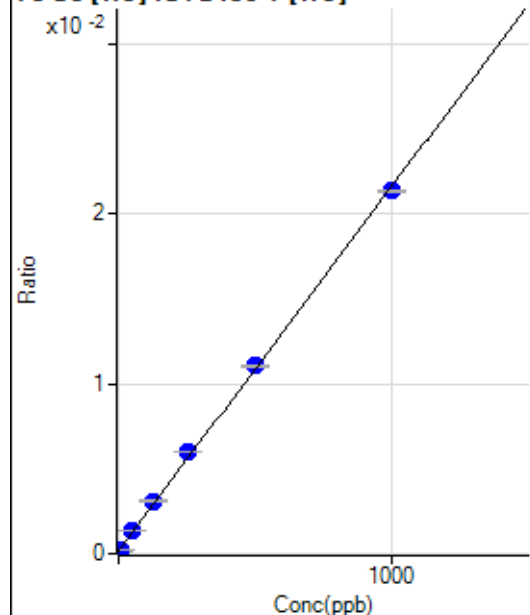
$$DL = 0.4186$$

$$BEC = 0.08056$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	346.67	0.0002	P	10.1
2	☐	5.000	4.920	577.80	0.0003	P	3.3
3	☐	50.000	55.014	2958.10	0.0013	P	0.6
4	☐	125.000	135.813	6627.10	0.0031	P	3.8
5	☐	250.000	272.918	12348.60	0.0060	P	0.7
6	☐	500.000	507.954	21940.81	0.0110	P	0.5
7	☐	1000.000	988.692	39754.42	0.0213	P	0.8
8	☐			457.79	0.0002	P	6.1

$$y = 2.1427\text{E-}005 * x + 1.6030\text{E-}004$$

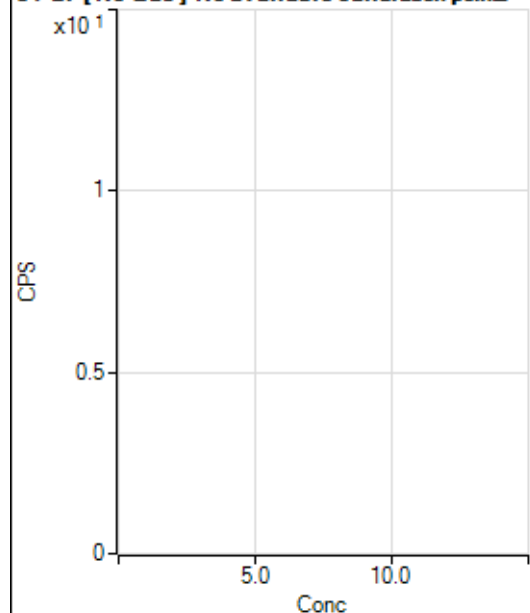
$$R = 0.9996$$

$$DL = 2.257$$

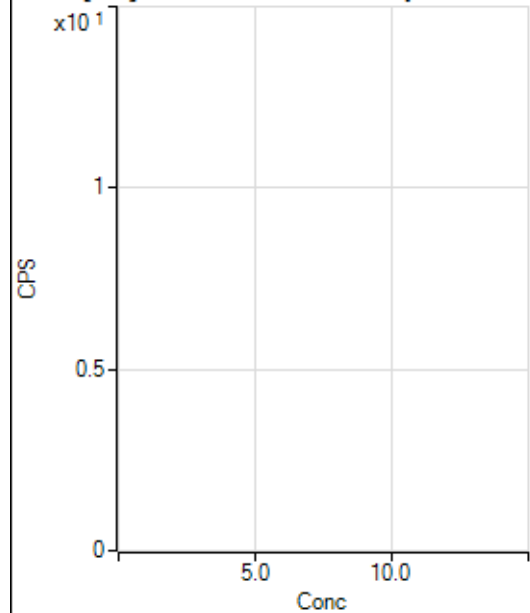
$$BEC = 7.481$$

Weight: <None>

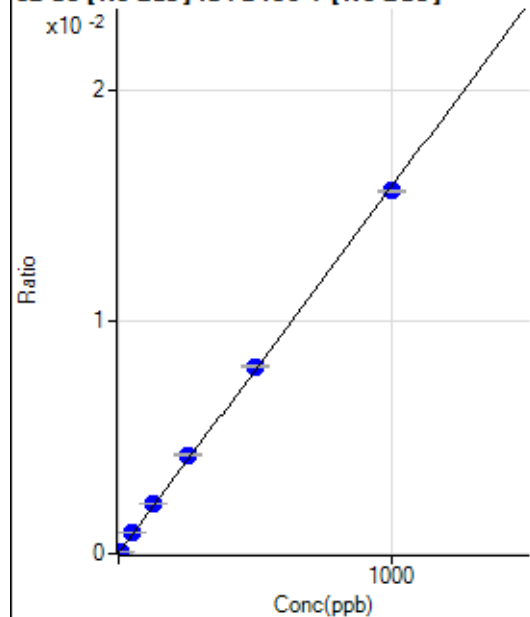
Min Conc: <None>

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8110.07		P	1.0
2	☐			8450.28		P	3.9
3	☐			8613.70		P	0.5
4	☐			8307.98		P	4.5
5	☐			8163.44		P	1.5
6	☐			7974.45		P	1.2
7	☐			7857.74		P	2.9
8	☐			8513.66		P	5.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.89		P	23.8
2	☐			98.89		P	14.0
3	☐			118.89		P	1.6
4	☐			135.56		P	18.8
5	☐			104.45		P	21.3
6	☐			130.00		P	13.3
7	☐			161.12		P	19.1
8	☐			271.12		P	13.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	154.78	0.0000	P	11.5
2	☐	5.000	5.955	871.12	0.0001	P	5.9
3	☐	50.000	54.807	6966.34	0.0009	P	1.5
4	☐	125.000	133.899	16617.66	0.0021	P	1.3
5	☐	250.000	268.817	31713.46	0.0043	P	1.1
6	☐	500.000	510.222	57657.05	0.0081	P	0.9
7	☐	1000.000	988.827	102004.79	0.0156	P	0.6
8	☐			232.23	0.0000	P	12.1

$$y = 1.5784\text{E-}005 * x + 1.9992\text{E-}005$$

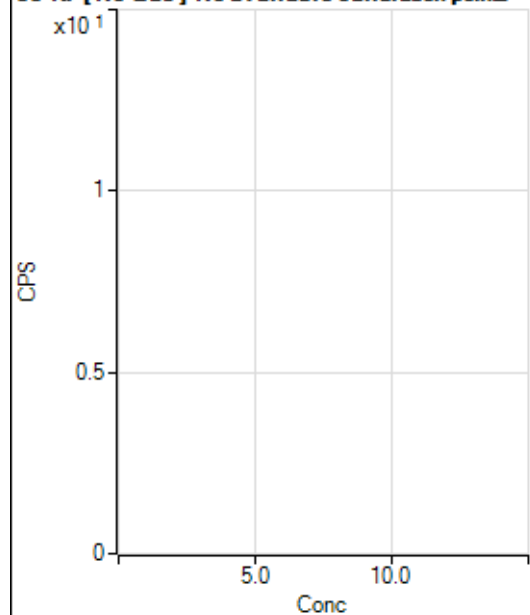
$$R = 0.9997$$

$$DL = 0.4369$$

$$BEC = 1.267$$

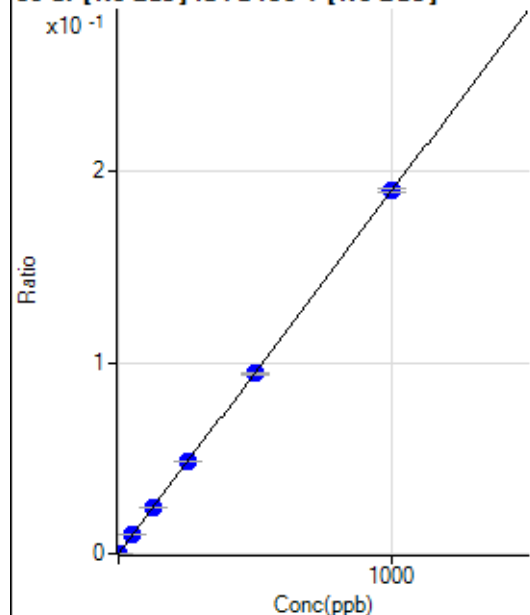
Weight: <None>

Min Conc: <None>

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			374.45		P	4.9
2	☐			332.23		P	3.8
3	☐			340.01		P	5.2
4	☐			356.68		P	4.9
5	☐			368.90		P	9.9
6	☐			355.56		P	6.4
7	☐			327.79		P	14.2
8	☐			390.01		P	2.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	612.24	0.0001	P	5.5
2	☐	1.000	0.999	2053.50	0.0003	P	4.2
3	☐	50.000	50.333	75712.46	0.0096	P	0.2
4	☐	125.000	125.671	186158.00	0.0239	P	1.2
5	☐	250.000	255.052	360241.26	0.0484	P	1.4
6	☐	500.000	496.008	672031.38	0.0941	P	0.2
7	☐	1000.000	1000.633	1238464.43	0.1897	P	1.0
8	☐			17430.42	0.0027	P	1.8

$$y = 1.8955\text{E-}004 * x + 7.9105\text{E-}005$$

$$R = 1.0000$$

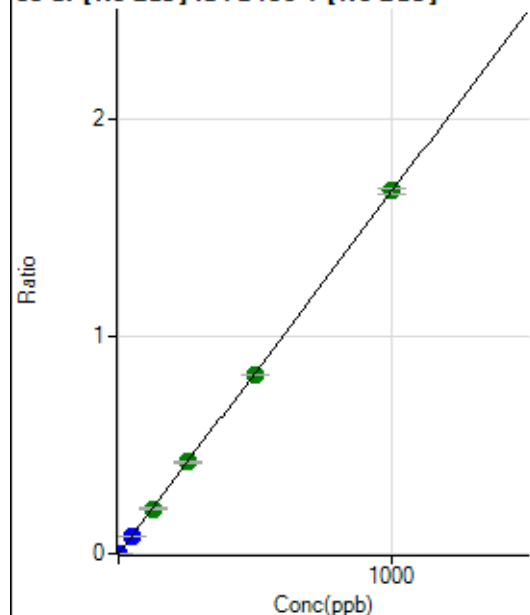
$$DL = 0.0693$$

$$BEC = 0.4173$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	314.45	0.0000	P	2.7
2	☐	1.000	0.976	12746.74	0.0017	P	1.9
3	☐	50.000	50.197	658950.74	0.0837	P	0.7
4	☐	125.000	124.165	1612772.88	0.2070	A	1.6
5	☐	250.000	253.985	3150199.61	0.4235	A	1.7
6	☐	500.000	493.927	5881063.24	0.8235	A	0.9
7	☐	1000.000	1002.135	10904488.03	1.6707	A	1.3
8	☐			146200.48	0.0226	P	1.3

$$y = 0.0017 * x + 4.0672\text{E-}005$$

$$R = 1.0000$$

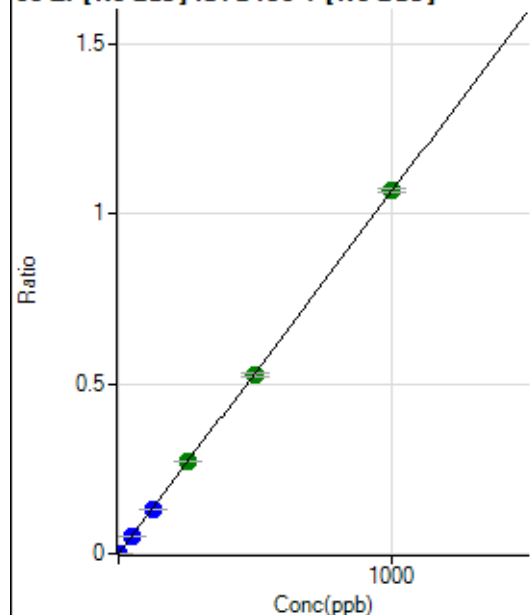
$$DL = 0.001978$$

$$BEC = 0.0244$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	234.45	0.0000	P	14.5
2	☐	1.000	0.969	8136.77	0.0011	P	2.2
3	☐	50.000	49.544	416100.16	0.0529	P	0.9
4	☐	125.000	123.920	1029701.15	0.1322	P	1.0
5	☐	250.000	255.471	2027209.03	0.2725	A	1.1
6	☐	500.000	493.519	3759167.55	0.5264	A	1.6
7	☐	1000.000	1002.031	6975638.92	1.0687	A	0.9
8	☐			6919.47	0.0011	P	2.4

$$y = 0.0011 * x + 3.0324E-005$$

$$R = 1.0000$$

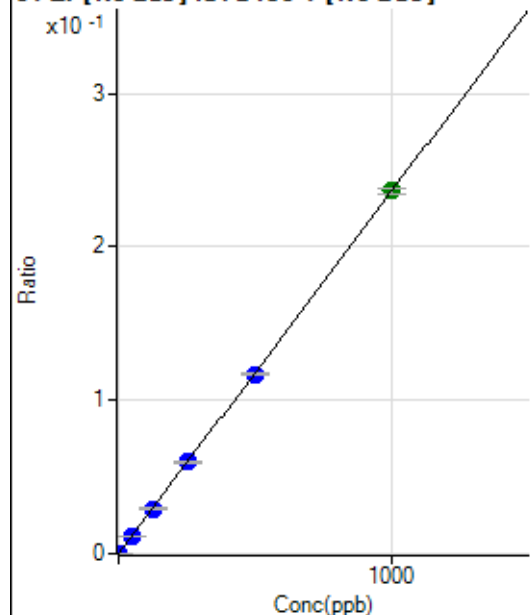
$$DL = 0.01235$$

$$BEC = 0.02843$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0000	P	14.2
2	☐	1.000	0.959	1784.58	0.0002	P	1.4
3	☐	50.000	49.428	91923.24	0.0117	P	0.5
4	☐	125.000	124.588	229226.35	0.0294	P	1.4
5	☐	250.000	252.309	443311.52	0.0596	P	1.3
6	☐	500.000	496.214	836927.26	0.1172	P	0.5
7	☐	1000.000	1001.396	1543645.67	0.2365	A	1.4
8	☐			1502.31	0.0002	P	0.9

$$y = 2.3615E-004 * x + 6.8822E-006$$

$$R = 1.0000$$

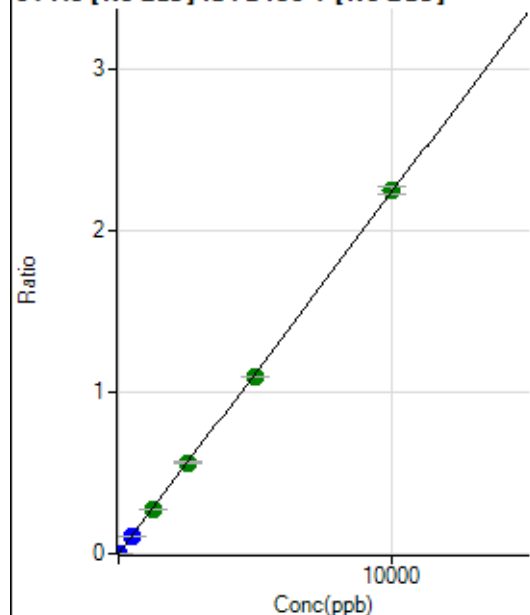
$$DL = 0.01239$$

$$BEC = 0.02914$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	144.45	0.0000	P	9.6
2	☐	5.000	5.604	9722.22	0.0013	P	3.2
3	☐	500.000	490.380	863237.71	0.1097	P	1.1
4	☐	1250.000	1216.868	2119959.76	0.2722	A	0.6
5	☐	2500.000	2510.559	4177191.85	0.5615	A	1.8
6	☐	5000.000	4910.985	7843915.85	1.0983	A	0.5
7	☐	10000.000	10046.490	14664784.78	2.2468	A	2.0
8	☐			7745.45	0.0012	P	2.4

$$y = 2.2364E-004 * x + 1.8664E-005$$

$$R = 0.9999$$

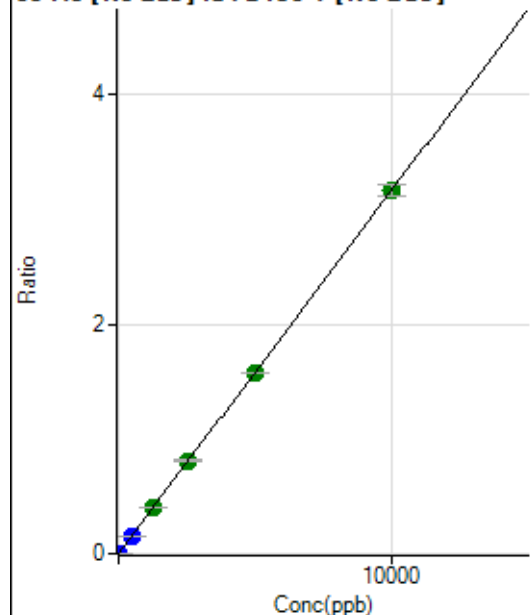
$$DL = 0.02402$$

$$BEC = 0.08346$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	103.34	0.0000	P	15.8
2	☐	5.000	4.789	11694.75	0.0015	P	1.0
3	☐	500.000	498.026	1241154.18	0.1577	P	1.4
4	☐	1250.000	1264.386	3118350.41	0.4004	A	2.4
5	☐	2500.000	2553.917	6016047.62	0.8087	A	1.8
6	☐	5000.000	4985.222	11273719.42	1.5786	A	0.3
7	☐	10000.000	9992.210	20646395.38	3.1640	A	3.1
8	☐			8883.88	0.0014	P	3.5

$$y = 3.1664E-004 * x + 1.3334E-005$$

$$R = 1.0000$$

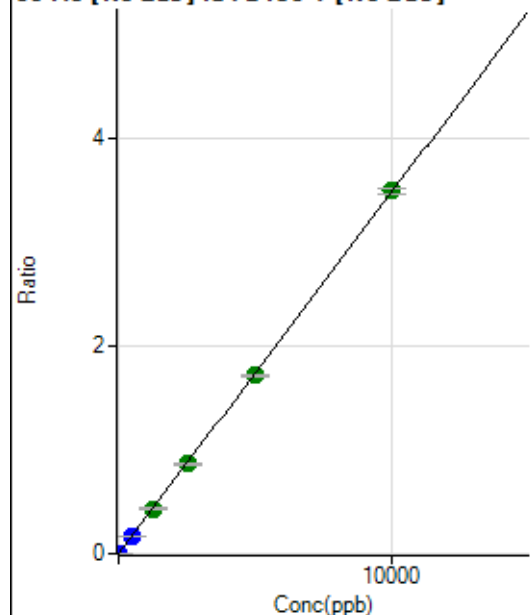
$$DL = 0.01991$$

$$BEC = 0.04211$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	125.56	0.0000	P	16.6
2	☐	5.000	4.824	12936.92	0.0017	P	3.1
3	☐	500.000	495.021	1353690.03	0.1720	P	0.6
4	☐	1250.000	1250.315	3383629.15	0.4344	A	1.1
5	☐	2500.000	2488.691	6432305.88	0.8646	A	2.3
6	☐	5000.000	4927.244	12225769.12	1.7119	A	0.3
7	☐	10000.000	10039.415	22765944.10	3.4879	A	1.3
8	☐			12407.59	0.0019	P	2.4

$$y = 3.4742\text{E-}004 * x + 1.6217\text{E-}005$$

$$R = 1.0000$$

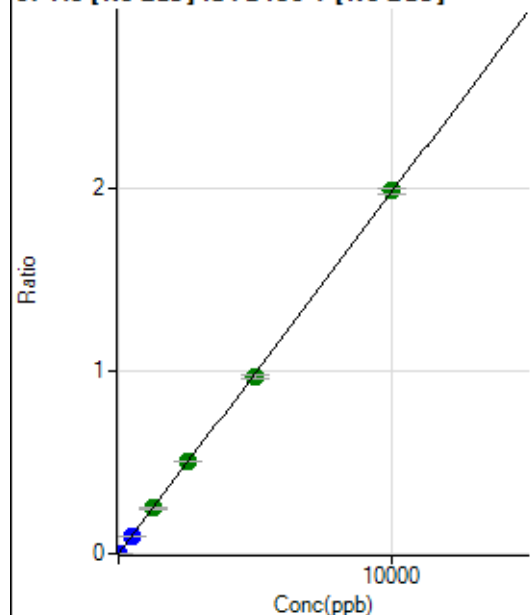
$$DL = 0.02331$$

$$BEC = 0.04668$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57.78	0.0000	P	27.0
2	☐	5.000	4.860	7417.51	0.0010	P	2.5
3	☐	500.000	501.201	781284.27	0.0993	P	1.2
4	☐	1250.000	1252.671	1932786.99	0.2481	A	1.0
5	☐	2500.000	2554.200	3763665.43	0.5059	A	1.9
6	☐	5000.000	4892.437	6920349.55	0.9690	A	1.4
7	☐	10000.000	10039.838	12978045.78	1.9885	A	1.8
8	☐			5703.38	0.0009	P	1.1

$$y = 1.9806\text{E-}004 * x + 7.4644\text{E-}006$$

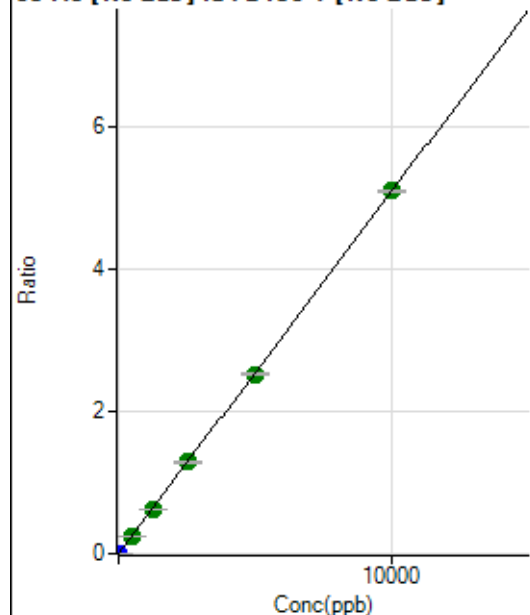
$$R = 0.9999$$

$$DL = 0.03053$$

$$BEC = 0.03769$$

Weight: <None>

Min Conc: <None>

98 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	15.7
2	☐	5.000	4.701	18478.48	0.0024	P	2.3
3	☐	500.000	488.547	1961854.34	0.2493	A	0.8
4	☐	1250.000	1240.115	4929055.03	0.6327	A	0.7
5	☐	2500.000	2527.064	9591775.20	1.2893	A	1.5
6	☐	5000.000	4957.183	18062795.42	2.5292	A	0.4
7	☐	10000.000	10016.451	33358488.95	5.1104	A	0.5
8	☐			14077.98	0.0022	P	0.1

$$y = 5.1020\text{E-}004 * x + 1.8491\text{E-}005$$

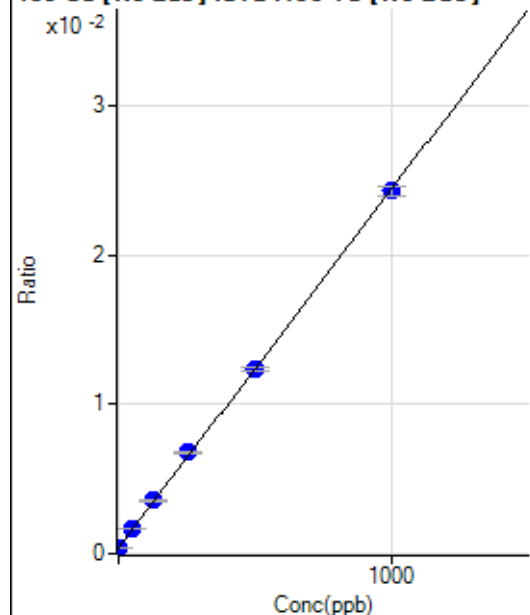
$$R = 1.0000$$

$$DL = 0.0171$$

$$BEC = 0.03624$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2133.51	0.0004	P	3.3
2	☐	1.000	0.675	2240.20	0.0004	P	2.7
3	☐	50.000	53.372	9373.11	0.0017	P	2.9
4	☐	125.000	132.220	19948.24	0.0036	P	1.9
5	☐	250.000	265.629	37012.72	0.0068	P	0.5
6	☐	500.000	499.825	65644.41	0.0124	P	2.0
7	☐	1000.000	995.109	118406.20	0.0243	P	2.5
8	☐			1970.16	0.0004	P	11.7

$$y = 2.4034\text{E-}005 * x + 3.8946\text{E-}004$$

$$R = 0.9999$$

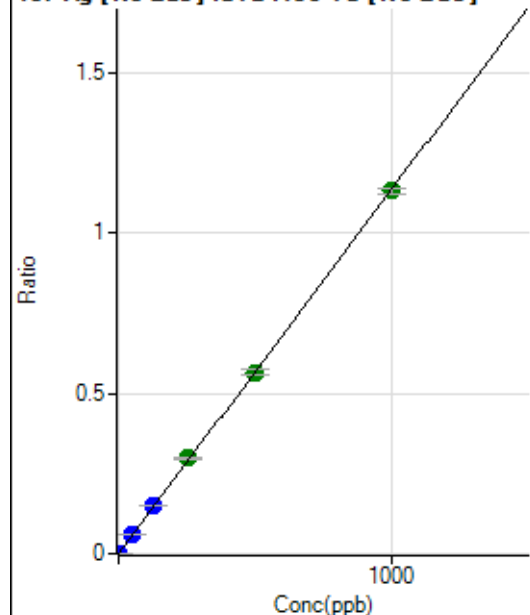
$$DL = 1.58$$

$$BEC = 16.2$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.11	0.0000	P	32.7
2	☐	1.000	1.083	6826.12	0.0012	P	1.7
3	☐	50.000	53.516	340521.04	0.0607	P	2.0
4	☐	125.000	133.003	844103.02	0.1510	P	2.3
5	☐	250.000	262.522	1627978.81	0.2980	A	1.7
6	☐	500.000	498.510	2994510.79	0.5658	A	2.6
7	☐	1000.000	996.438	5509719.78	1.1309	A	1.7
8	☐			5766.76	0.0012	P	2.4

$$y = 0.0011 * x + 7.5436E-006$$

$$R = 0.9999$$

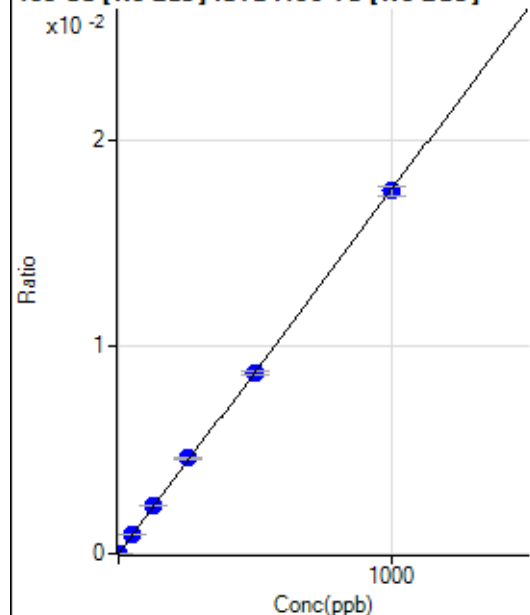
$$DL = 0.006511$$

$$BEC = 0.006647$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0000	P	26.6
2	☐	1.000	1.007	111.11	0.0000	P	17.8
3	☐	50.000	52.837	5222.10	0.0009	P	3.6
4	☐	125.000	132.198	13007.03	0.0023	P	2.4
5	☐	250.000	262.313	25208.65	0.0046	P	1.4
6	☐	500.000	497.576	46308.16	0.0087	P	2.2
7	☐	1000.000	997.092	85402.10	0.0175	P	2.9
8	☐			57.78	0.0000	P	23.3

$$y = 1.7578E-005 * x + 2.4415E-006$$

$$R = 0.9999$$

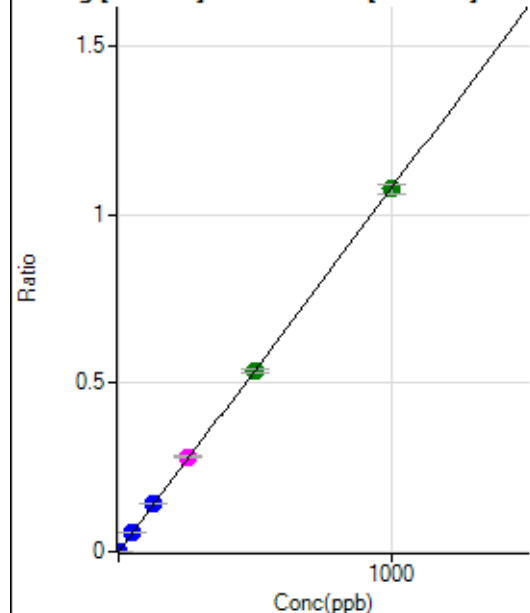
$$DL = 0.1109$$

$$BEC = 0.1389$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	26.7
2	☐	1.000	1.085	6498.19	0.0012	P	3.1
3	☐	50.000	53.444	322978.61	0.0576	P	1.1
4	☐	125.000	132.831	800714.13	0.1432	P	1.5
5	☐	250.000	260.550	1534606.68	0.2808	M	1.1
6	☐	500.000	496.264	2831043.53	0.5349	A	2.6
7	☐	1000.000	998.079	5240311.94	1.0758	A	2.9
8	☐			5339.92	0.0011	P	4.6

$$y = 0.0011 * x + 7.0811E-006$$

$$R = 0.9999$$

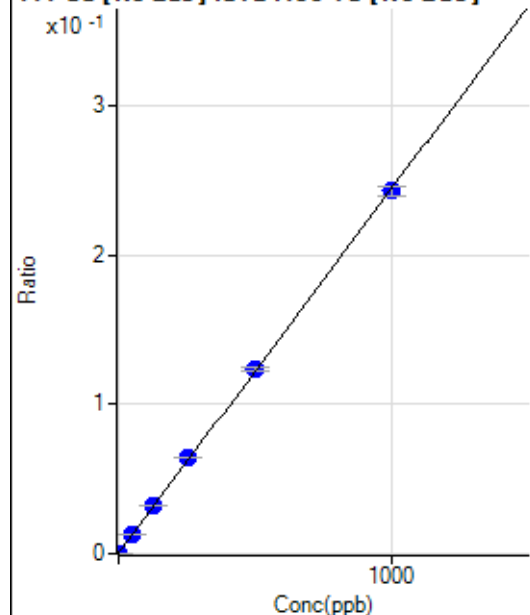
$$DL = 0.005263$$

$$BEC = 0.00657$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1494.12	0.0003	P	3.3
2	☐	1.000	0.916	2741.54	0.0005	P	3.4
3	☐	50.000	53.619	74988.63	0.0134	P	2.0
4	☐	125.000	131.919	181805.74	0.0325	P	2.1
5	☐	250.000	263.273	353086.96	0.0646	P	0.8
6	☐	500.000	502.889	651984.60	0.1232	P	2.0
7	☐	1000.000	994.191	1185048.61	0.2433	P	2.4
8	☐			1917.57	0.0004	P	8.7

$$y = 2.4440E-004 * x + 2.7274E-004$$

$$R = 0.9999$$

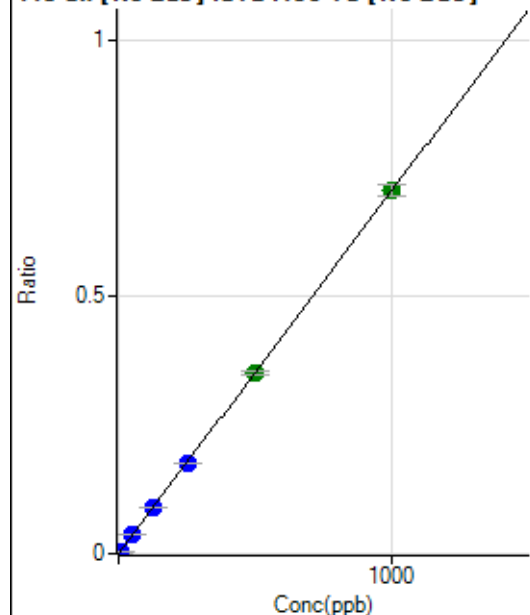
$$DL = 0.111$$

$$BEC = 1.116$$

Weight: <None>

Min Conc: <None>

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1501.21	0.0003	P	4.1
2	☐	5.000	4.794	20194.31	0.0037	P	1.2
3	☐	50.000	50.855	202816.35	0.0362	P	0.3
4	☐	125.000	126.362	500369.13	0.0895	P	1.7
5	☐	250.000	249.650	964468.61	0.1765	P	1.1
6	☐	500.000	498.821	1865087.97	0.3524	A	2.8
7	☐	1000.000	1000.465	3441541.30	0.7065	A	3.1
8	☐			5910.16	0.0012	P	1.5

$$y = 7.0592E-004 * x + 2.7373E-004$$

$$R = 1.0000$$

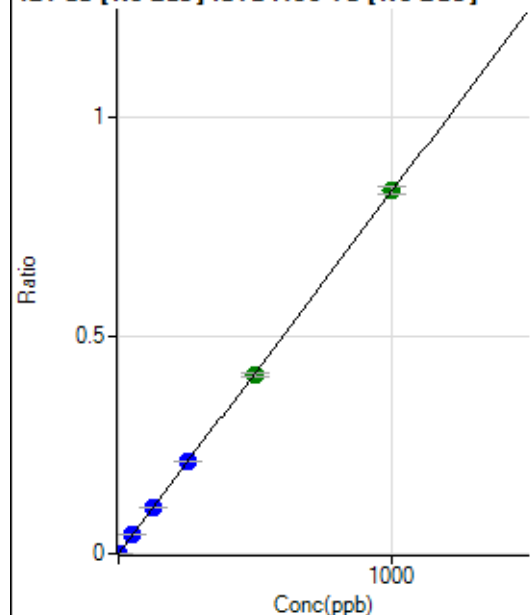
$$DL = 0.04813$$

$$BEC = 0.3878$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.44	0.0000	P	18.2
2	☐	2.000	2.014	9248.60	0.0017	P	1.1
3	☐	50.000	51.144	237826.33	0.0424	P	0.8
4	☐	125.000	128.031	593743.88	0.1062	P	2.4
5	☐	250.000	253.753	1150036.35	0.2105	P	0.9
6	☐	500.000	492.683	2162777.93	0.4086	A	2.3
7	☐	1000.000	1002.284	4049665.70	0.8313	A	2.1
8	☐			10609.55	0.0022	P	4.4

$$y = 8.2937E-004 * x + 4.4462E-006$$

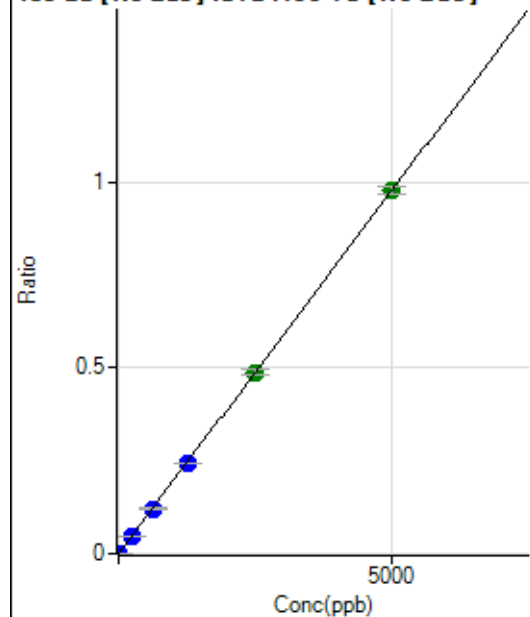
$$R = 0.9999$$

$$DL = 0.002926$$

$$BEC = 0.005361$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	273.34	0.0000	P	5.0
2	☐	10.000	9.531	10540.64	0.0019	P	2.9
3	☐	250.000	248.427	272012.98	0.0485	P	0.5
4	☐	625.000	618.589	675083.37	0.1207	P	2.4
5	☐	1250.000	1245.251	1327714.90	0.2430	P	1.4
6	☐	2500.000	2501.933	2583271.13	0.4882	A	3.9
7	☐	5000.000	5001.102	4754700.14	0.9758	A	2.3
8	☐			7585.42	0.0016	P	3.4

$$y = 1.9510E-004 * x + 4.9830E-005$$

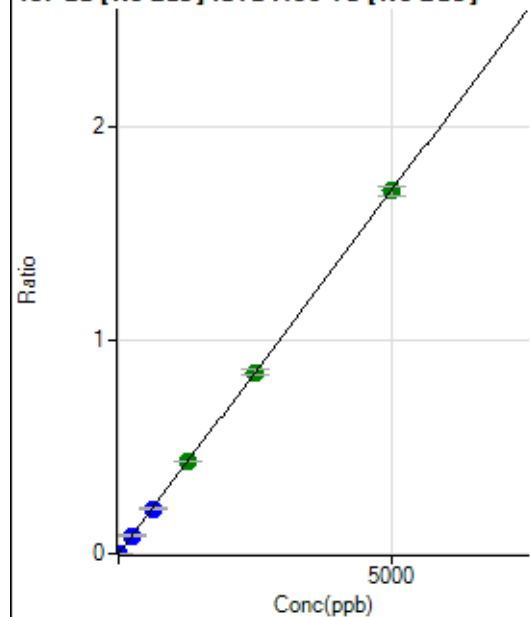
$$R = 1.0000$$

$$DL = 0.03834$$

$$BEC = 0.2554$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	482.24	0.0001	P	11.6
2	☐	10.000	9.302	17950.33	0.0033	P	1.4
3	☐	250.000	250.506	478076.70	0.0853	P	0.8
4	☐	625.000	618.414	1176460.70	0.2104	P	1.8
5	☐	1250.000	1266.725	2354258.59	0.4308	A	0.6
6	☐	2500.000	2500.190	4500287.75	0.8503	A	2.6
7	☐	5000.000	4996.523	8278616.40	1.6992	A	2.8
8	☐			13488.74	0.0028	P	0.1

$$y = 3.4006E-004 * x + 8.8119E-005$$

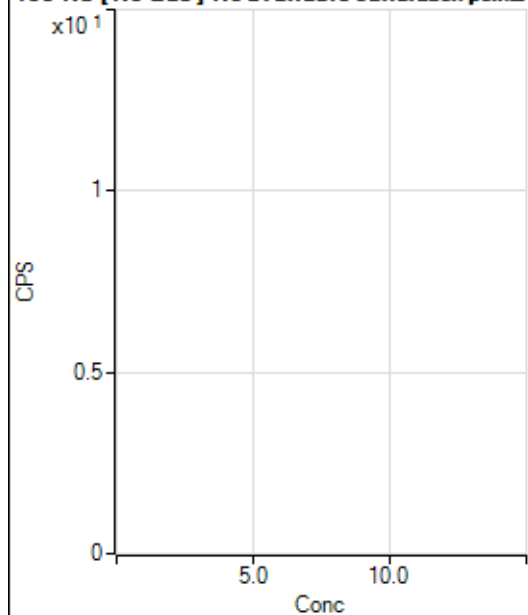
$$R = 1.0000$$

$$DL = 0.09044$$

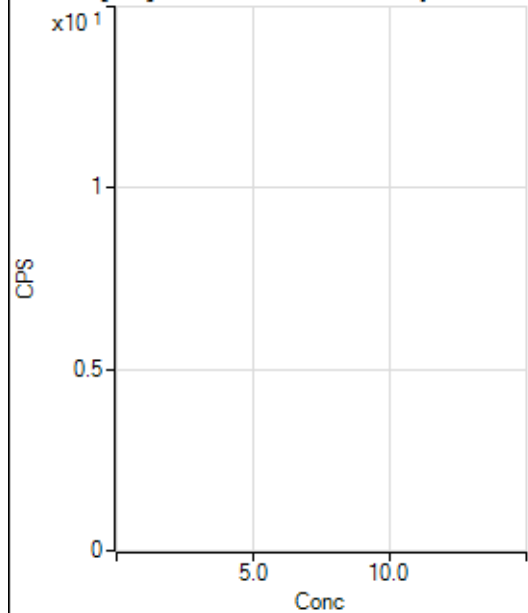
$$BEC = 0.2591$$

Weight: <None>

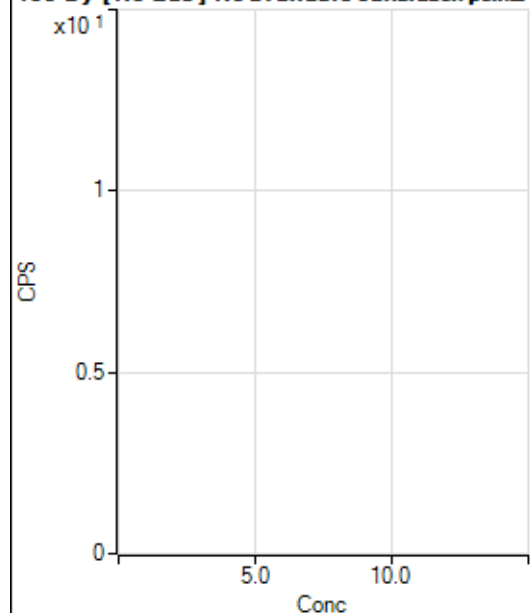
Min Conc: <None>

150 Nd [No Gas] No available calibration points

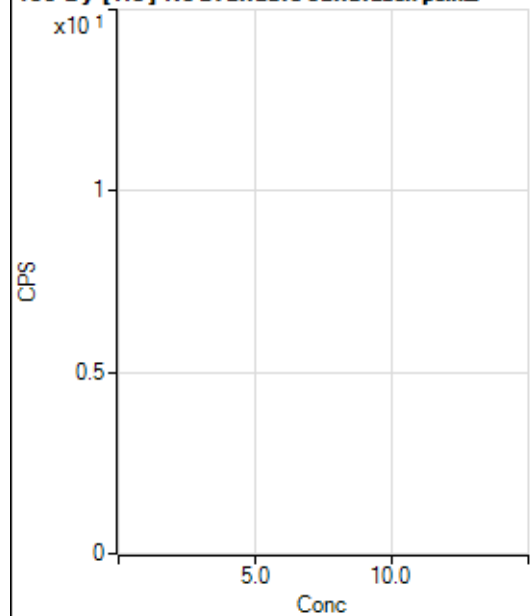
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			11.11		P	17.3
3	☐			27.78		P	34.6
4	☐			31.11		P	40.6
5	☐			82.22		P	14.2
6	☐			121.11		P	12.4
7	☐			161.11		P	10.2
8	☐			126.67		P	4.6

150 Nd [He] No available calibration points

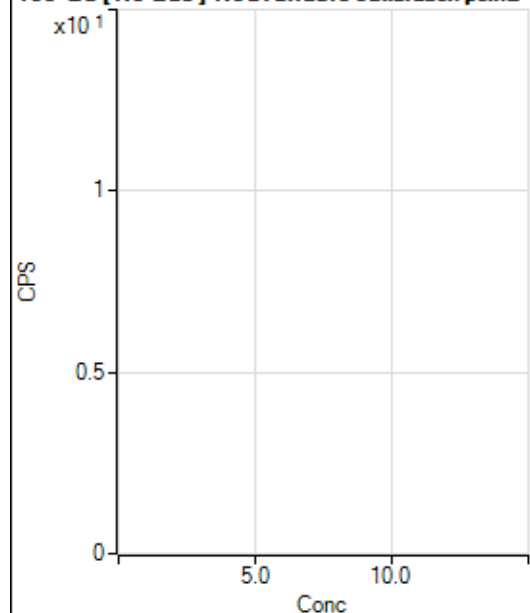
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.
3	☐			3.33		P	100.
4	☐			7.78		P	89.2
5	☐			24.45		P	43.8
6	☐			28.89		P	26.6
7	☐			42.22		P	36.5
8	☐			65.56		P	15.5

156 Dy [No Gas] No available calibration points

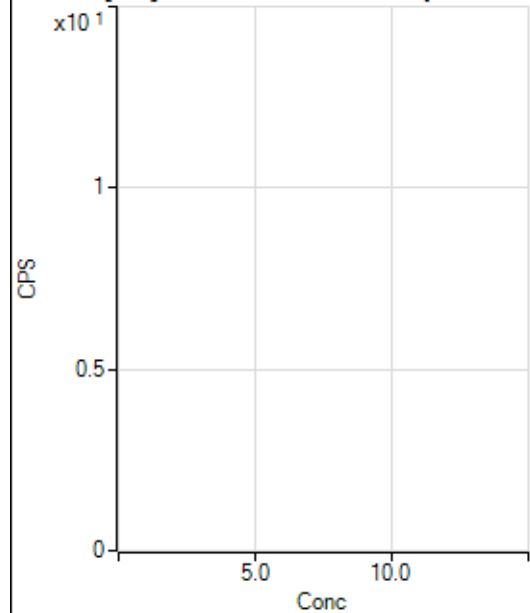
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			7.78		P	24.7
3	☐			13.33		P	43.3
4	☐			26.67		P	50.0
5	☐			55.56		P	38.6
6	☐			65.55		P	38.8
7	☐			98.89		P	5.1
8	☐			225.56		P	20.7

156 Dy [He] No available calibration points

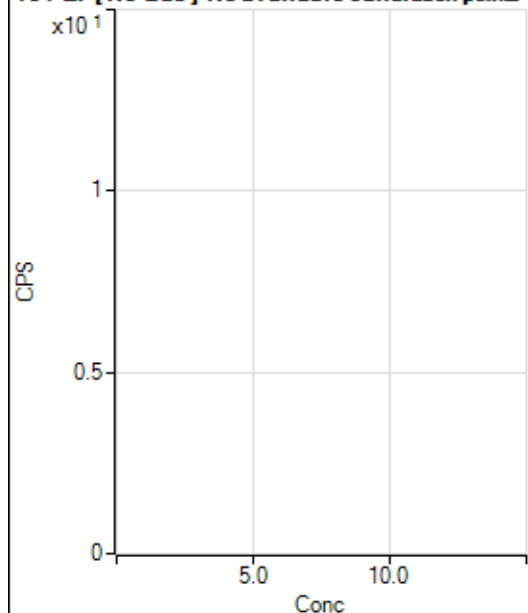
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			10.00		P	33.3
3	☐			30.00		P	33.3
4	☐			37.78		P	13.5
5	☐			96.67		P	26.0
6	☐			152.23		P	5.1
7	☐			286.67		P	3.1
8	☐			205.56		P	0.9

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

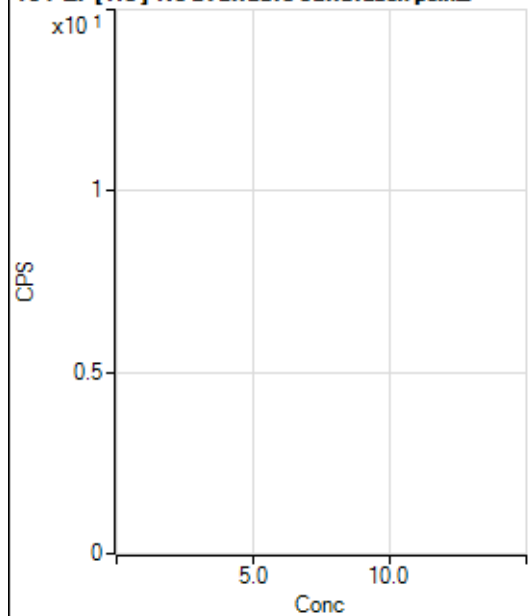
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.55		P	52.7
2	☐			28.89		P	40.5
3	☐			42.22		P	29.9
4	☐			48.89		P	32.2
5	☐			60.00		P	41.9
6	☐			52.22		P	20.5
7	☐			88.89		P	8.7
8	☐			234.45		P	0.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			255.56		P	15.0
2	☐			251.12		P	0.8
3	☐			278.90		P	10.0
4	☐			268.90		P	1.9
5	☐			283.34		P	5.1
6	☐			258.89		P	6.6
7	☐			303.34		P	NaN
8	☐			417.79		P	7.4

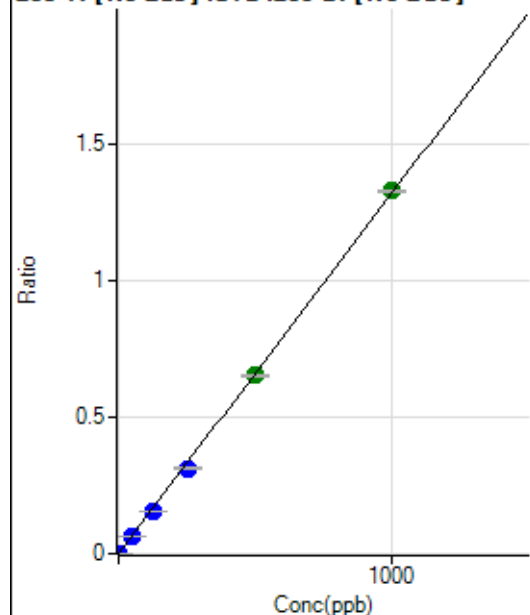
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	16.4
2	☐			30.00		P	29.4
3	☐			51.11		P	19.9
4	☐			51.11		P	18.8
5	☐			66.67		P	18.0
6	☐			87.78		P	14.4
7	☐			136.67		P	6.5
8	☐			455.57		P	5.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	21.7
2	☐			16.67		P	40.0
3	☐			35.55		P	10.8
4	☐			27.78		P	6.9
5	☐			43.33		P	23.1
6	☐			51.11		P	3.8
7	☐			81.11		P	30.3
8	☐			335.57		P	8.0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	73.34	0.0000	P	33.9
2	☐	1.000	0.957	4696.41	0.0013	P	2.5
3	☐	50.000	47.299	232147.70	0.0624	P	2.1
4	☐	125.000	118.915	582530.47	0.1568	P	0.9
5	☐	250.000	237.041	1140430.71	0.3125	P	1.0
6	☐	500.000	494.050	2281648.42	0.6512	A	0.2
7	☐	1000.000	1007.110	4273108.62	1.3275	A	0.4
8	☐			5981.38	0.0021	P	5.7

$$y = 0.0013 * x + 2.0609E-005$$

$$R = 0.9999$$

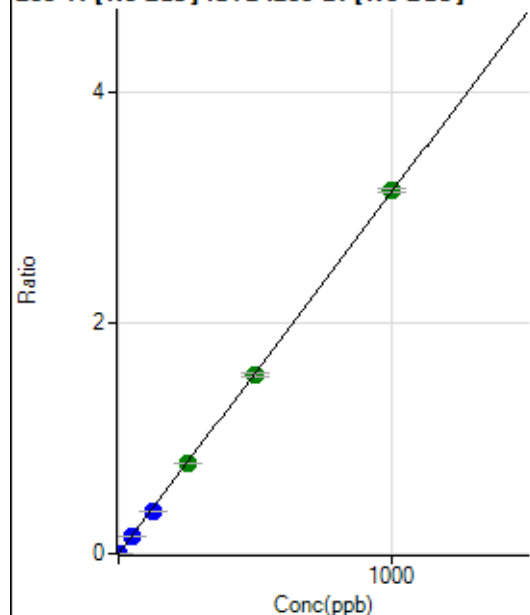
$$DL = 0.01592$$

$$BEC = 0.01564$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	140.00	0.0000	P	5.0
2	☐	1.000	0.973	11328.15	0.0031	P	0.9
3	☐	50.000	47.367	553520.34	0.1487	P	2.3
4	☐	125.000	118.265	1379380.43	0.3712	P	1.2
5	☐	250.000	251.321	2879155.96	0.7888	A	0.2
6	☐	500.000	494.173	5433268.29	1.5510	A	2.5
7	☐	1000.000	1003.557	10138713.25	3.1497	A	1.0
8	☐			13870.51	0.0048	P	2.9

$$y = 0.0031 * x + 3.9388E-005$$

$$R = 1.0000$$

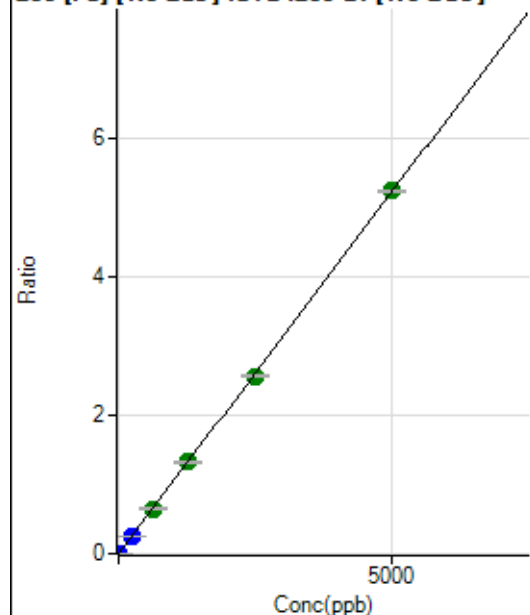
$$DL = 0.001884$$

$$BEC = 0.01255$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	373.34	0.0001	P	2.5
2	☐	1.000	0.834	3568.29	0.0010	P	2.0
3	☐	250.000	241.368	936632.43	0.2516	P	2.1
4	☐	625.000	623.921	2415944.29	0.6503	A	2.5
5	☐	1250.000	1264.401	4809121.21	1.3177	A	1.2
6	☐	2500.000	2452.643	8954466.74	2.5559	A	0.9
7	☐	5000.000	5020.645	16841059.75	5.2318	A	0.8
8	☐			7100.80	0.0024	P	1.9

$$y = 0.0010 * x + 1.0508E-004$$

$$R = 0.9999$$

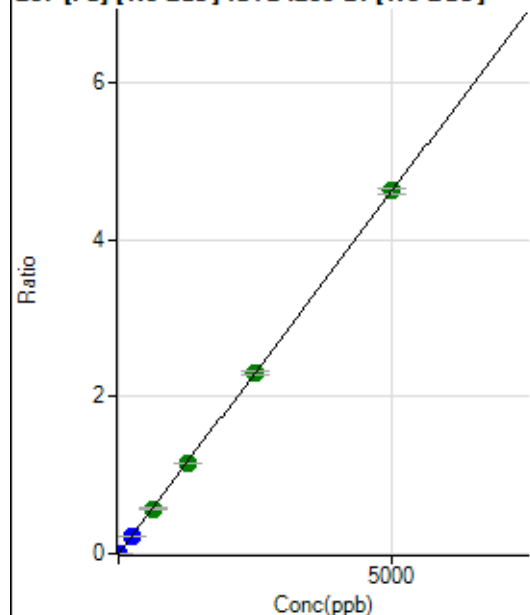
$$DL = 0.00768$$

$$BEC = 0.1008$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	284.45	0.0001	P	14.3
2	☐	1.000	0.853	3179.29	0.0009	P	0.6
3	☐	250.000	233.784	803999.98	0.2160	P	3.2
4	☐	625.000	620.905	2131323.73	0.5736	A	2.3
5	☐	1250.000	1246.665	4203161.74	1.1516	A	1.5
6	☐	2500.000	2484.774	8041545.02	2.2953	A	2.2
7	☐	5000.000	5009.770	14896009.08	4.6276	A	1.4
8	☐			6361.55	0.0022	P	4.0

$$y = 9.2370E-004 * x + 8.0000E-005$$

$$R = 1.0000$$

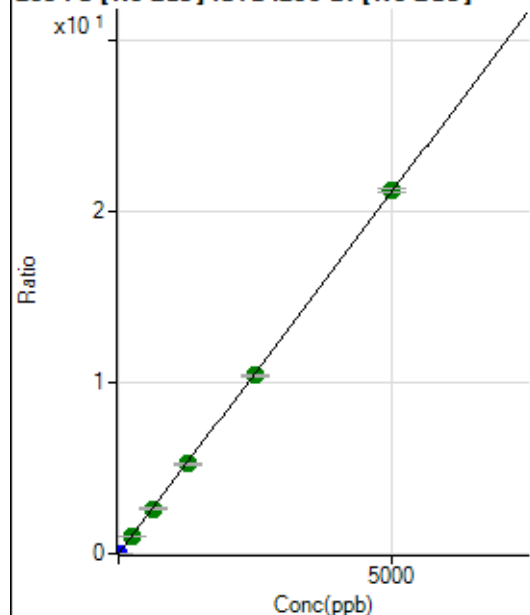
$$DL = 0.03727$$

$$BEC = 0.08661$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1453.37	0.0004	P	0.4
2	☐	1.000	0.836	14413.15	0.0039	P	0.2
3	☐	250.000	243.299	3823637.64	1.0272	A	2.3
4	☐	625.000	623.467	9779377.42	2.6317	A	1.1
5	☐	1250.000	1245.794	19190462.04	5.2581	A	1.6
6	☐	2500.000	2467.458	36485775.92	10.4140	A	0.8
7	☐	5000.000	5017.850	68170046.90	21.1776	A	0.9
8	☐			28287.26	0.0097	P	1.4

$$y = 0.0042 * x + 4.0908E-004$$

$$R = 1.0000$$

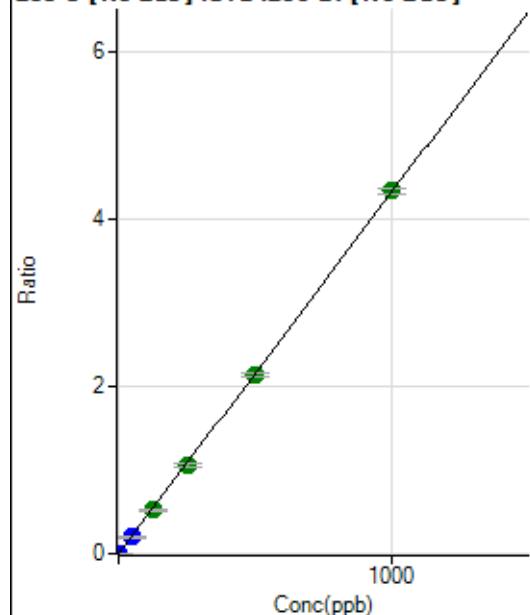
$$DL = 0.001263$$

$$BEC = 0.09693$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0000	P	88.2
2	☐	1.000	0.868	13721.63	0.0037	P	1.7
3	☐	50.000	45.584	731425.85	0.1965	P	2.0
4	☐	125.000	120.035	1922168.25	0.5174	A	3.4
5	☐	250.000	245.817	3866722.93	1.0596	A	3.0
6	☐	500.000	494.264	7463650.16	2.1305	A	1.9
7	☐	1000.000	1004.755	13941263.12	4.3309	A	1.5
8	☐			660.02	0.0002	P	7.9

$$y = 0.0043 * x + 2.8230E-006$$

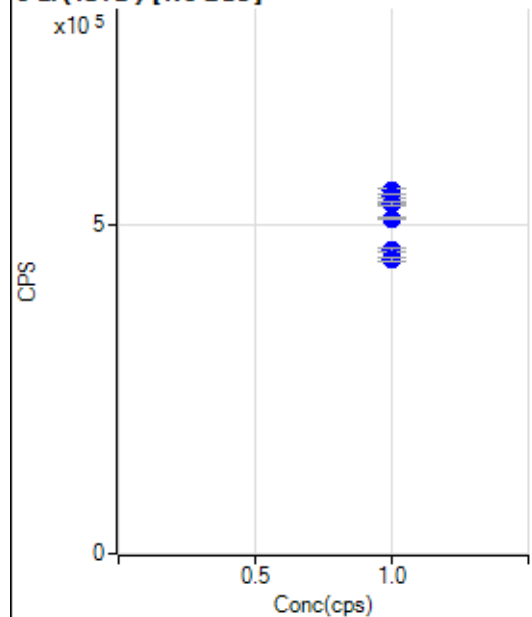
$$R = 1.0000$$

$$DL = 0.001734$$

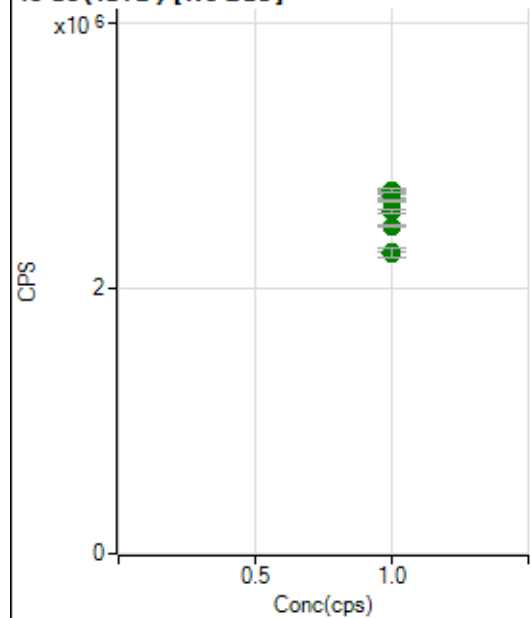
$$BEC = 0.0006549$$

Weight: <None>

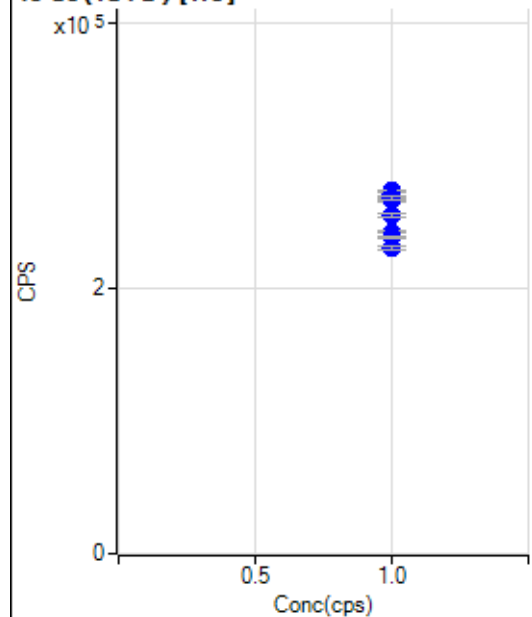
Min Conc: <None>

6 Li (ISTD) [No Gas]

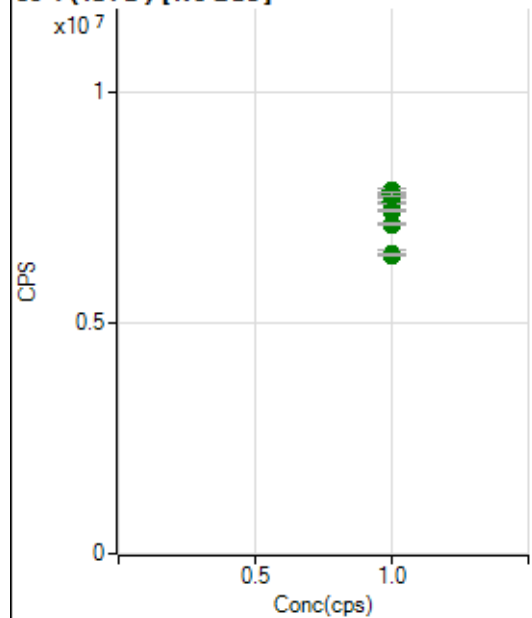
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		536686.99		P	1.2
2	☐	1.000		533147.52		P	0.7
3	☐	1.000		551843.78		P	1.7
4	☐	1.000		544034.90		P	0.9
5	☐	1.000		531383.43		P	1.2
6	☐	1.000		510004.07		P	0.8
7	☐	1.000		461675.16		P	1.2
8	☐	1.000		447484.70		P	1.7

45 Sc (ISTD) [No Gas]

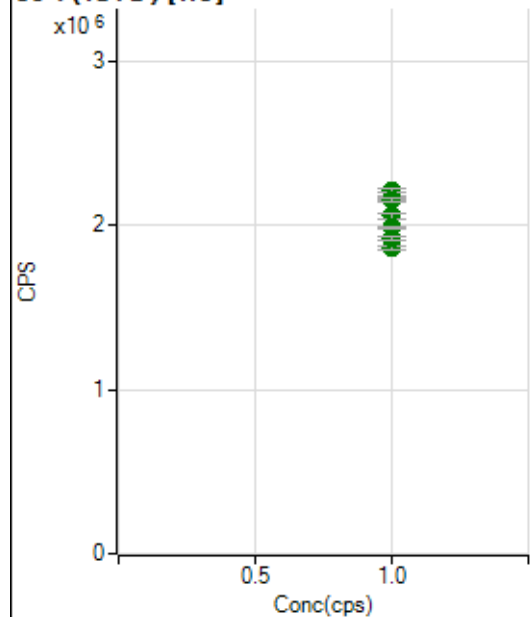
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2702361.61		A	2.9
2	☐	1.000		2690127.43		A	1.4
3	☐	1.000		2731356.59		A	1.0
4	☐	1.000		2656007.96		A	0.8
5	☐	1.000		2576768.15		A	1.0
6	☐	1.000		2466706.89		A	0.6
7	☐	1.000		2254838.56		A	1.8
8	☐	1.000		2268992.71		A	3.1

45 Sc (ISTD) [He]

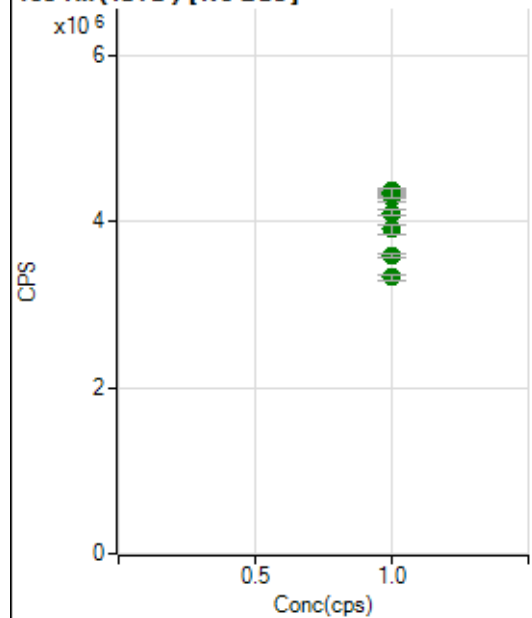
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		266578.16		P	1.4
2	☐	1.000		270750.34		P	1.3
3	☐	1.000		273543.10		P	0.1
4	☐	1.000		268176.76		P	1.0
5	☐	1.000		254955.68		P	0.9
6	☐	1.000		242424.49		P	0.5
7	☐	1.000		230615.70		P	1.0
8	☐	1.000		238519.07		P	0.9

89 Y (ISTD) [No Gas]

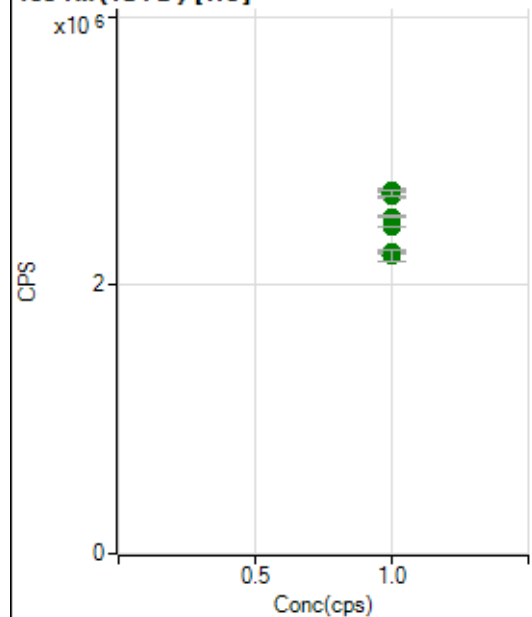
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7733299.19		A	2.3
2	☐	1.000		7646116.07		A	1.4
3	☐	1.000		7870725.02		A	1.3
4	☐	1.000		7789769.40		A	1.1
5	☐	1.000		7439461.00		A	0.5
6	☐	1.000		7141857.18		A	0.6
7	☐	1.000		6527608.65		A	1.6
8	☐	1.000		6479936.15		A	0.7

89 Y (ISTD) [He]

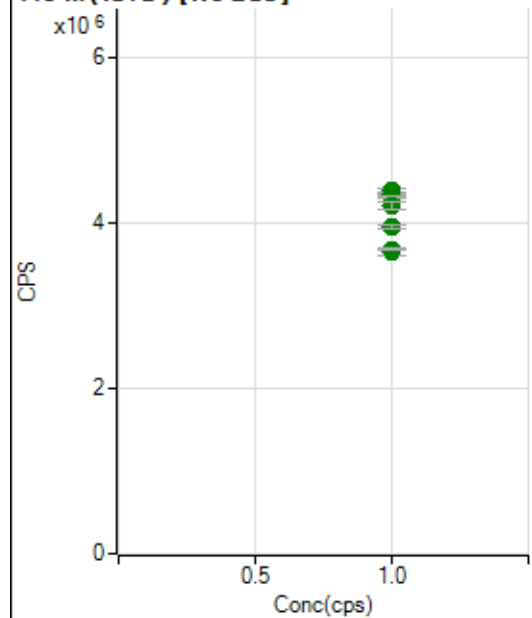
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2163854.50		A	1.0
2	☐	1.000		2174436.81		A	0.3
3	☐	1.000		2209143.77		A	1.0
4	☐	1.000		2158814.08		A	1.2
5	☐	1.000		2055541.20		A	2.0
6	☐	1.000		1986644.50		A	0.2
7	☐	1.000		1862480.89		A	1.3
8	☐	1.000		1919865.42		A	1.3

103 Rh (ISTD) [No Gas]

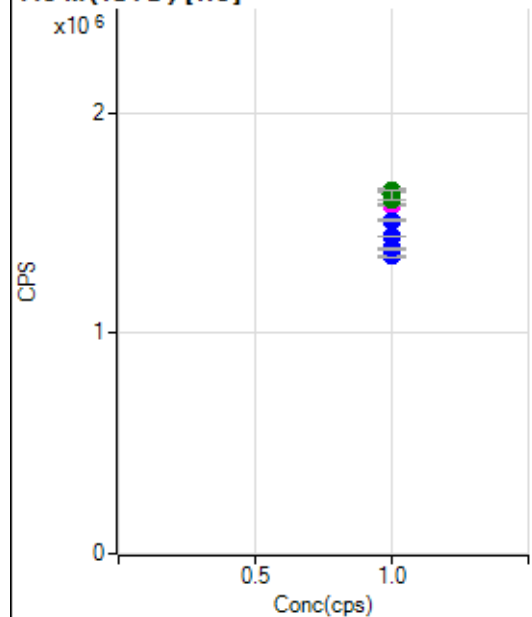
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4294337.50		A	2.1
2	☐	1.000		4322497.26		A	1.2
3	☐	1.000		4369471.08		A	0.8
4	☐	1.000		4343504.48		A	2.9
5	☐	1.000		4106986.15		A	1.8
6	☐	1.000		3907616.50		A	2.8
7	☐	1.000		3588490.50		A	1.1
8	☐	1.000		3334006.17		A	2.0

103 Rh (ISTD) [He]

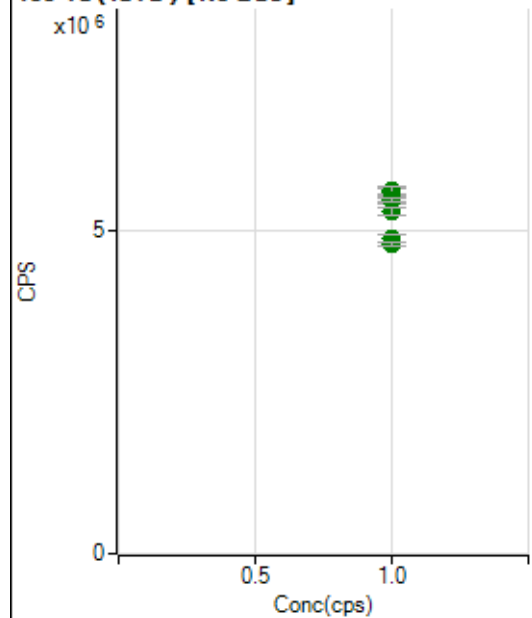
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2703877.42		A	0.9
2	☐	1.000		2672735.10		A	1.5
3	☐	1.000		2682560.29		A	1.8
4	☐	1.000		2687683.40		A	1.2
5	☐	1.000		2513642.88		A	0.3
6	☐	1.000		2433947.64		A	0.1
7	☐	1.000		2244966.37		A	0.9
8	☐	1.000		2219560.12		A	3.6

115 In (ISTD) [No Gas]

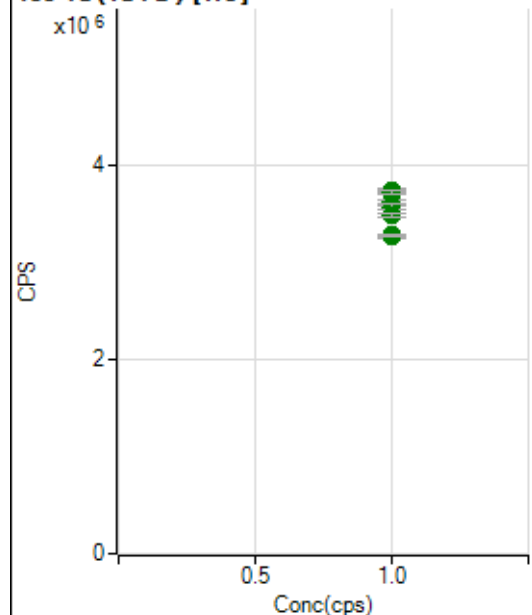
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4396112.92		A	1.6
2	☐	1.000		4355459.04		A	1.1
3	☐	1.000		4379132.86		A	0.3
4	☐	1.000		4331107.57		A	0.5
5	☐	1.000		4216826.71		A	2.7
6	☐	1.000		3963752.12		A	1.1
7	☐	1.000		3646835.71		A	1.4
8	☐	1.000		3684054.40		A	0.5

115 In (ISTD) [He]

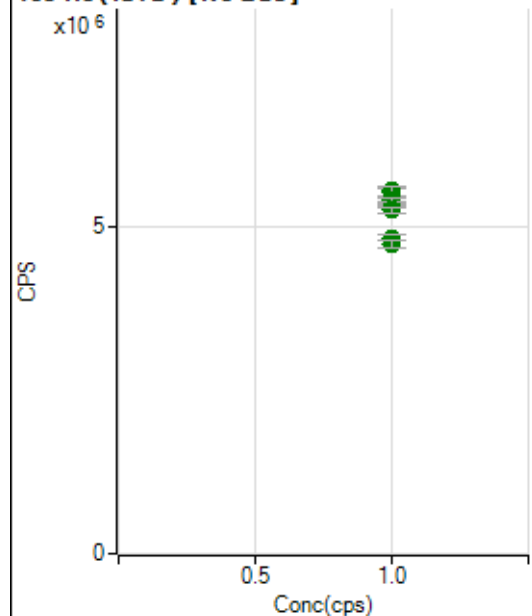
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1581857.69		M	1.0
2	☐	1.000		1603425.98		A	0.4
3	☐	1.000		1644418.40		A	1.0
4	☐	1.000		1626237.78		A	2.3
5	☐	1.000		1511669.82		P	0.7
6	☐	1.000		1437468.82		P	0.4
7	☐	1.000		1348318.05		P	0.4
8	☐	1.000		1383190.41		P	0.6

159 Tb (ISTD) [No Gas]

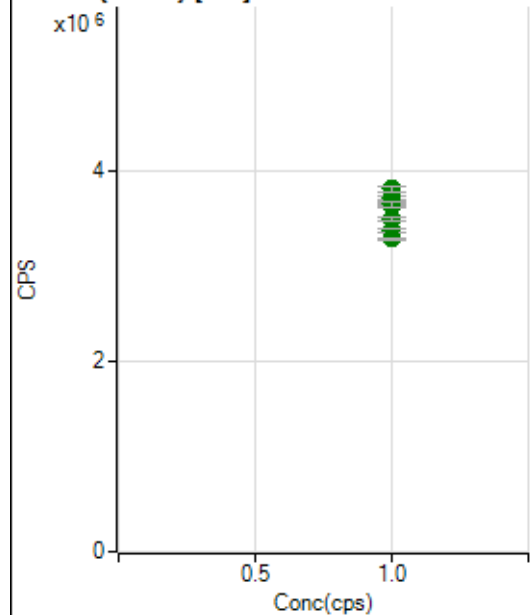
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5480724.57		A	2.6
2	☐	1.000		5521264.01		A	0.8
3	☐	1.000		5606686.93		A	1.4
4	☐	1.000		5593555.54		A	2.5
5	☐	1.000		5464545.09		A	1.4
6	☐	1.000		5294381.62		A	2.0
7	☐	1.000		4872944.34		A	2.0
8	☐	1.000		4787258.64		A	0.9

159 Tb (ISTD) [He]

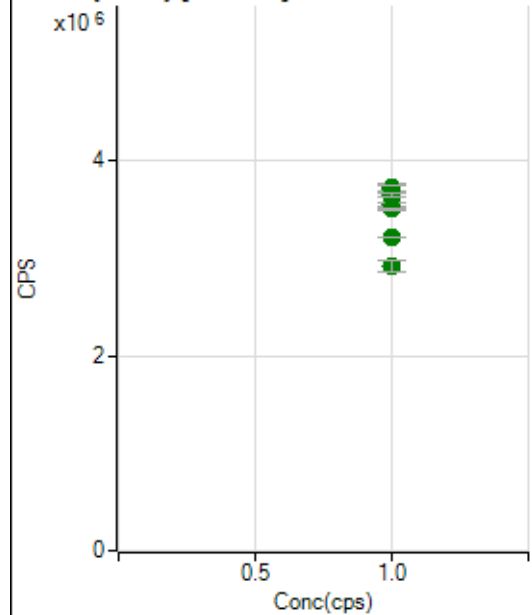
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3619398.14		A	1.4
2	☐	1.000		3711123.77		A	0.6
3	☐	1.000		3736422.65		A	1.1
4	☐	1.000		3716393.80		A	1.2
5	☐	1.000		3574496.02		A	1.2
6	☐	1.000		3486344.29		A	1.3
7	☐	1.000		3269764.12		A	1.1
8	☐	1.000		3282532.48		A	0.6

165 Ho (ISTD) [No Gas]

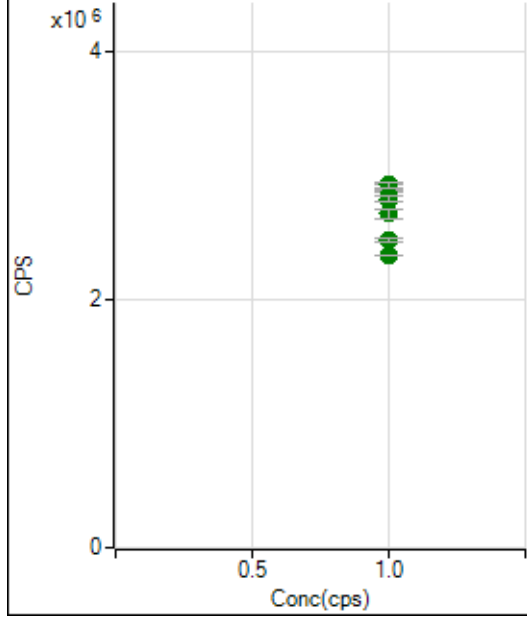
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5417024.57		A	1.9
2	☐	1.000		5327879.47		A	0.6
3	☐	1.000		5525512.11		A	1.9
4	☐	1.000		5537636.16		A	2.4
5	☐	1.000		5409901.38		A	1.2
6	☐	1.000		5249645.16		A	1.7
7	☐	1.000		4827189.96		A	1.5
8	☐	1.000		4726740.69		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3652273.76		A	0.6
2	☐	1.000		3727178.66		A	0.7
3	☐	1.000		3790061.09		A	0.3
4	☐	1.000		3820409.39		A	1.6
5	☐	1.000		3659663.87		A	1.6
6	☐	1.000		3507255.15		A	0.8
7	☐	1.000		3382004.88		A	1.1
8	☐	1.000		3295814.74		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3552941.34		A	1.6
2	☐	1.000		3662481.82		A	1.2
3	☐	1.000		3723731.54		A	2.6
4	☐	1.000		3716440.40		A	1.8
5	☐	1.000		3650050.09		A	1.0
6	☐	1.000		3503658.56		A	0.9
7	☐	1.000		3218964.26		A	0.2
8	☐	1.000		2920624.22		A	3.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2857959.30		A	1.9
2	☐	1.000		2877182.63		A	1.0
3	☐	1.000		2900845.86		A	1.3
4	☐	1.000		2921970.10		A	1.4
5	☐	1.000		2807621.97		A	1.7
6	☐	1.000		2689015.05		A	2.7
7	☐	1.000		2476688.73		A	1.4
8	☐	1.000		2349277.41		A	0.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7111125-MS.b
Acq. Date-Time 2025-11-11 13:28:16
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		4658	46577.89			0.401	5.000
24		42494	424938.04			0.454	5.000
25		5665	56649.45			0.153	5.000
26		6812	68121.24			0.223	5.000
59		49794	497940.39			0.571	5.000
113		6560	65598.22			0.737	5.000
115		74810	748103.94			1.049	5.000
206		15454	154544.78			0.642	5.000
207		13352	133517.51			0.531	5.000
208		32111	321105.11			0.488	5.000
220		0	1.90			70.613	

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

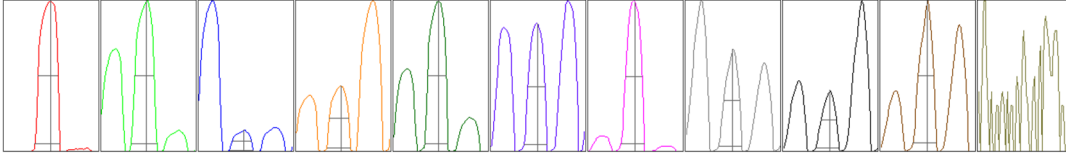
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4687	4664	4647	4638	4652
24	42192	42573	42420	42611	42674
25	5671	5672	5651	5662	5668
26	6802	6816	6837	6808	6798
59	49827	50122	49774	49902	49345
113	6629	6587	6532	6542	6508
115	75809	75357	74686	73835	74365
206	15462	15411	15592	15485	15322
207	13307	13365	13405	13427	13255
208	32129	32205	32305	32002	31912

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	7655.50	9.00	8.90 - 9.10	
24	72786.89	23.95	23.90 - 24.10	
25	9798.32	24.95	24.90 - 25.10	
26	11370.50	25.95	25.90 - 26.10	
59	87615.76	58.95	58.90 - 59.10	
113	12594.69	113.00	112.90 - 113.10	
115	144370.82	115.00	114.90 - 115.10	
206	32225.95	206.00	205.90 - 206.10	
207	28175.74	207.00	206.90 - 207.10	
208	69438.95	208.00	207.90 - 208.10	
220	0.00	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.62	0.819	0.900	
25	0.62	0.745	0.900	
26	0.63	0.744	0.900	
59	0.60	0.738	0.900	
113	0.53	0.730	0.900	
115	0.52	0.742	0.900	
206	0.50	0.737	0.900	
207	0.49	0.748	0.900	
208	0.49	0.749	0.900	
220	0.45	0.450		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	7.7 V	Deflect	14.6 V
Extract 2	-135.0 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	190 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9975	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-2.0 mm	Torch V	1.1 mm
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EM

Discriminator	4.7 mV	Analog HV	2295 V	Pulse HV	1229 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18393	183928.68			1.136	
89		49012	490121.45			1.034	
205		16343	163434.12			1.043	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18675	18522	18341	18289	18138
89	49668	49363	48966	48610	48454
205	16578	16463	16199	16285	16192

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.1 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 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	200 V		
QP Parameters					
Mass Gain	139	Axis Gain	0.9975	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.11		
Hardware Settings					
Torch					
Torch H	-2.0 mm	Torch V	1.1 mm		
EM					
Discriminator	4.7 mV	Analog HV	2295 V	Pulse HV	1229 V