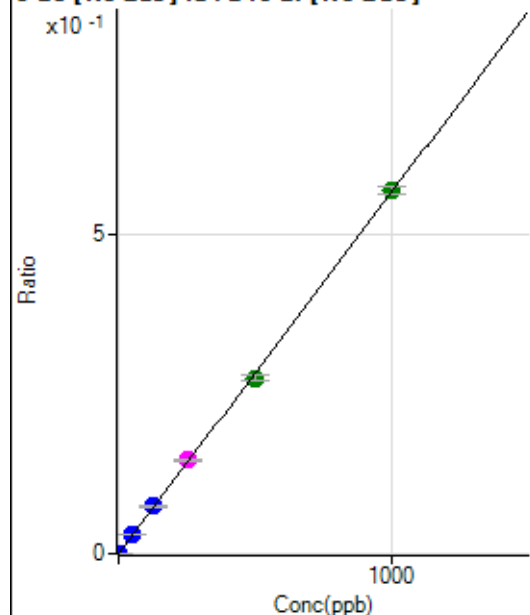


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102921-MS.b\
 Analysis File: P8102921-MS.batch.bin
 DA Date-Time: 2021-10-29 17:20:25
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-29 12:00:43
2	005CALS.d	S02	2021-10-29 12:06:52
3	006CALS.d	S03	2021-10-29 12:09:58
4	007CALS.d	S04	2021-10-29 12:13:01
5	008CALS.d	S05	2021-10-29 12:16:07
6	009CALS.d	S06	2021-10-29 12:19:11
7	010CALS.d	S07	2021-10-29 12:22:17
8	011CALS.d	S08	2021-10-29 12:25:20

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	54.66	0.0000	P	3.9
2	☐	1.000	1.031	4083.10	0.0006	P	4.5
3	☐	50.000	53.544	205405.36	0.0303	P	0.6
4	☐	125.000	131.825	511574.79	0.0746	P	2.9
5	☐	250.000	259.506	992911.58	0.1469	M	1.2
6	☐	500.000	485.419	1922445.24	0.2748	A	3.7
7	☐	1000.000	1003.884	3791372.31	0.5682	A	2.1
8	☐			1296.47	0.0002	P	2.3

$$y = 5.6601\text{E-}004 * x + 8.1001\text{E-}006$$

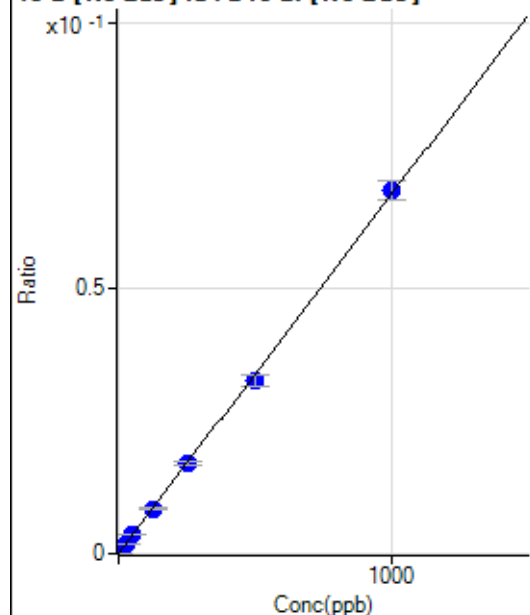
$$R = 0.9998$$

$$DL = 0.001655$$

$$BEC = 0.01431$$

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	401.93	0.0001	P	14.2
2	☐	25.000	24.011	11616.32	0.0017	P	4.4
3	☐	50.000	51.203	23863.39	0.0035	P	4.0
4	☐	125.000	124.756	58234.73	0.0085	P	3.4
5	☐	250.000	250.085	114683.49	0.0170	P	3.4
6	☐	500.000	479.977	227353.99	0.0325	P	7.2
7	☐	1000.000	1009.985	455852.90	0.0683	P	5.1
8	☐			38273.78	0.0062	P	9.8

$$y = 6.7603\text{E-}005 * x + 5.9520\text{E-}005$$

$$R = 0.9997$$

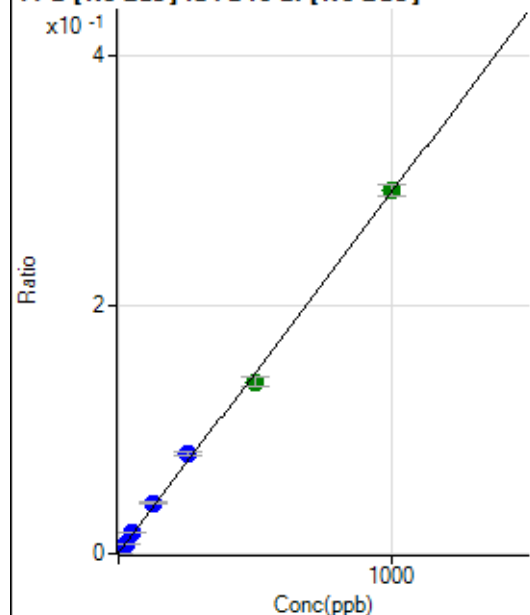
$$DL = 0.3751$$

$$BEC = 0.8804$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1797.76	0.0003	P	3.7
2	☐	25.000	26.806	55567.15	0.0080	P	4.3
3	☐	50.000	57.220	114402.96	0.0169	P	3.0
4	☐	125.000	138.389	277323.39	0.0404	P	4.7
5	☐	250.000	277.268	545967.56	0.0808	P	4.2
6	☐	500.000	474.993	966734.69	0.1382	A	5.4
7	☐	1000.000	1003.607	1946028.67	0.2917	A	3.3
8	☐			181672.28	0.0293	P	9.6

$$y = 2.9034E-004 * x + 2.6652E-004$$

$$R = 0.9991$$

$$DL = 0.1032$$

$$BEC = 0.918$$

Weight: <None>

Min Conc: 0

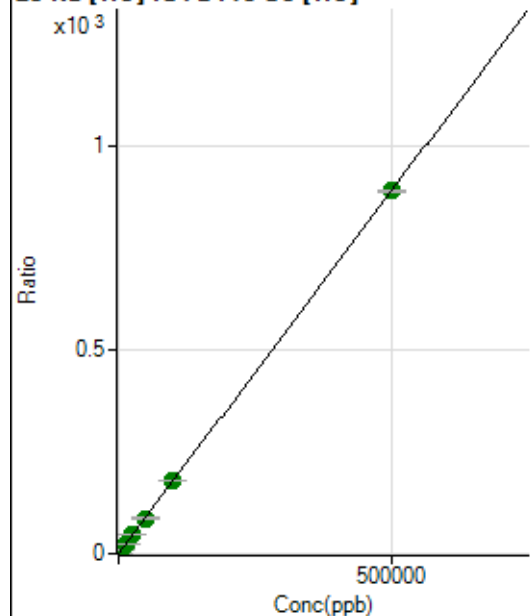
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7274238.71		A	1.7
2	☐			6884603.89		A	0.6
3	☐			7746872.74		A	2.0
4	☐			7714793.92		A	2.3
5	☐			8074136.38		A	1.8
6	☐			8484993.33		A	2.6
7	☐			10174190.33		A	3.7
8	☐			8037236.64		A	2.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70394.18		P	0.2
2	☐			65373.72		P	0.8
3	☐			75614.55		P	2.6
4	☐			77393.22		P	0.5
5	☐			79635.57		P	1.3
6	☐			86817.57		P	0.5
7	☐			108950.09		P	0.3
8	☐			90408.63		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35340.60	0.0975	P	2.2
2	☐	500.000	494.465	354636.63	0.9776	P	1.7
3	☐	5000.000	5228.871	3486198.99	9.4048	A	1.8
4	☐	12500.000	12996.357	8425583.87	23.2309	A	1.8
5	☐	25000.000	25942.862	16373104.36	46.2755	A	0.9
6	☐	50000.000	48881.402	32069828.84	87.1058	A	4.7
7	☐	100000.00	100527.08	65454243.83	179.0345	A	1.8
8	☐	500000.00	499944.60	313300429.2	889.9931	A	0.4

$$y = 0.0018 * x + 0.0975$$

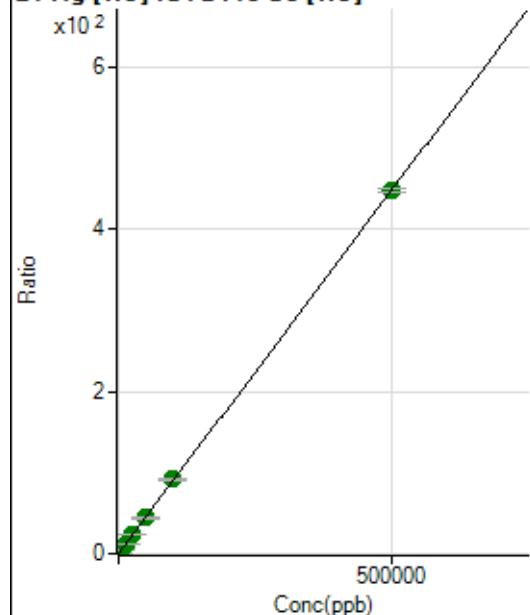
$$R = 1.0000$$

$$DL = 3.697$$

$$BEC = 54.78$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	638.92	0.0018	P	8.9
2	☐	500.000	517.307	168582.94	0.4647	P	1.6
3	☐	5000.000	5477.931	1818239.76	4.9045	A	0.5
4	☐	12500.000	13446.536	4365343.50	12.0363	A	0.7
5	☐	25000.000	26494.642	8390010.43	23.7143	A	1.8
6	☐	50000.000	49987.311	16465401.24	44.7400	A	6.1
7	☐	100000.00	102259.05	33461405.26	91.5228	A	1.7
8	☐	500000.00	499446.26	157352024.3	447.0024	A	0.9

$$y = 8.9499\text{E-}004 * x + 0.0018$$

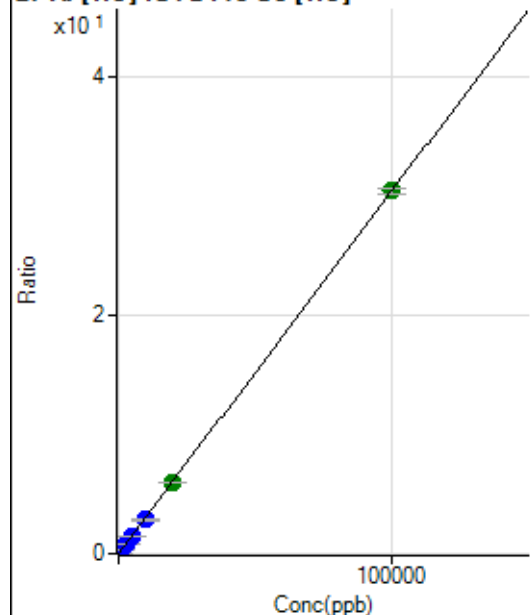
$$R = 1.0000$$

$$DL = 0.5234$$

$$BEC = 1.969$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	247.89	0.0007	P	7.2
2	☐	20.000	18.878	2332.82	0.0064	P	3.4
3	☐	1000.000	1001.226	113240.86	0.3055	P	2.5
4	☐	2500.000	2518.867	278383.37	0.7676	P	0.6
5	☐	5000.000	4936.468	532014.76	1.5037	P	1.2
6	☐	10000.000	9297.602	1042655.92	2.8315	P	4.0
7	☐	20000.000	19638.677	2186351.40	5.9799	A	1.2
8	☐	100000.00	100145.19	10732906.22	30.4912	A	1.5

$$y = 3.0446\text{E-}004 * x + 6.8403\text{E-}004$$

$$R = 1.0000$$

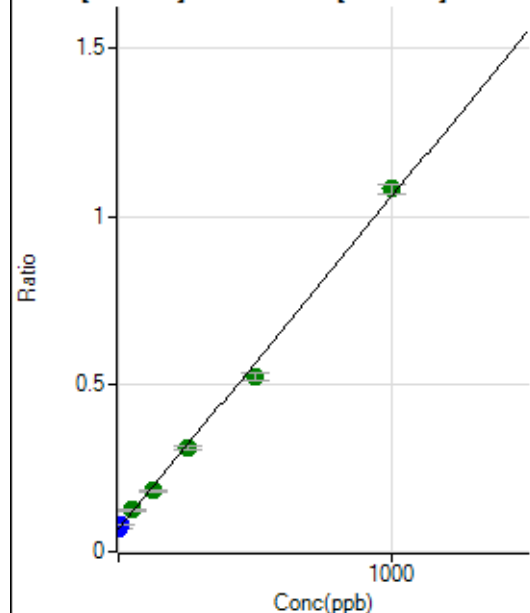
$$DL = 0.4858$$

$$BEC = 2.247$$

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	801811.33	0.0684	P	0.6
2	☐	10.000	9.412	924396.72	0.0777	P	0.6
3	☐	50.000	56.610	1431004.75	0.1244	A	2.5
4	☐	125.000	114.220	2166051.44	0.1815	A	1.4
5	☐	250.000	243.762	3672370.66	0.3098	A	1.9
6	☐	500.000	458.432	6473621.98	0.5225	A	4.0
7	☐	1000.000	1023.366	12768164.87	1.0821	A	2.5
8	☐			1471747.15	0.1276	A	1.7

$$y = 9.9058\text{E-}004 * x + 0.0684$$

$$R = 0.9986$$

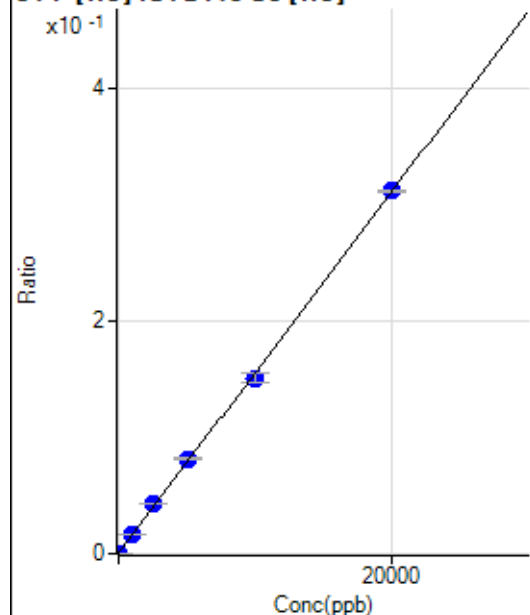
$$DL = 1.195$$

$$BEC = 69$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-14.005	102.78	0.0003	P	9.8
2	☐	0.000	14.005	261.12	0.0007	P	24.0
3	☐	1000.000	1034.954	6145.90	0.0166	P	4.6
4	☐	2500.000	2718.659	15503.11	0.0427	P	1.8
5	☐	5000.000	5200.963	28773.55	0.0813	P	2.2
6	☐	10000.000	9710.041	55749.80	0.1514	P	4.7
7	☐	20000.000	20065.659	114185.05	0.3123	P	0.3
8	☐			158.34	0.0004	P	17.1

$$y = 1.5540\text{E-}005 * x + 5.0132\text{E-}004$$

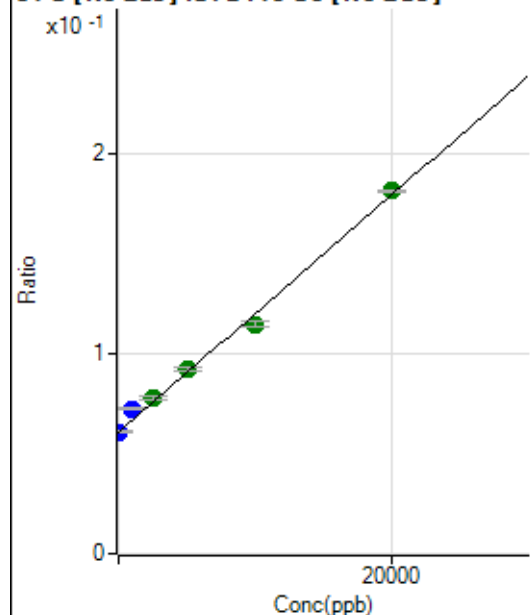
$$R = 0.9997$$

$$DL = 19.31$$

$$BEC = 32.26$$

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	-23.174	711384.65	0.0606	P	0.8
2	☐	0.000	23.174	724976.83	0.0609	P	0.9
3	☐	1000.000	1937.554	830926.62	0.0723	P	0.9
4	☐	2500.000	2860.511	927744.50	0.0777	A	1.4
5	☐	5000.000	5264.164	1090202.69	0.0920	A	1.8
6	☐	10000.000	9045.397	1417710.98	0.1144	A	2.6
7	☐	20000.000	20319.319	2138039.17	0.1812	A	0.5
8	☐			619623.61	0.0537	P	1.2

$$y = 5.9273\text{E-}006 * x + 0.0608$$

$$R = 0.9970$$

$$DL = 265.4$$

$$BEC = 1.025\text{E}+04$$

Weight: <None>

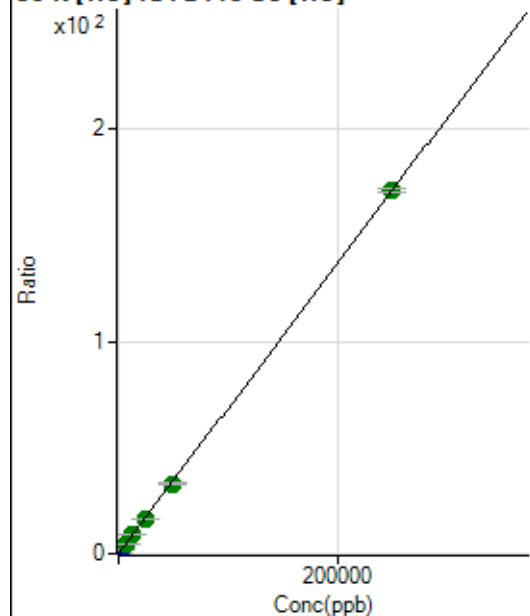
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			387937.95		P	0.5
2	☐			327377.63		P	0.8
3	☐			343428.50		P	0.3
4	☐			335802.66		P	0.5
5	☐			328872.88		P	1.0
6	☐			323418.87		P	0.8
7	☐			341835.70		P	0.6
8	☐			298206.09		P	1.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2316.92		P	3.1
2	☐			1966.85		P	1.1
3	☐			1939.07		P	3.7
4	☐			2064.09		P	8.7
5	☐			1816.83		P	9.1
6	☐			1927.96		P	2.2
7	☐			2019.64		P	10.3
8	☐			1708.48		P	8.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25300.54	0.0698	P	1.1
2	☐	500.000	470.424	141764.98	0.3908	P	1.8
3	☐	2500.000	2570.257	675930.65	1.8236	P	2.3
4	☐	6250.000	6575.770	1652728.14	4.5567	A	2.1
5	☐	12500.000	12829.960	3121816.07	8.8241	A	2.8
6	☐	25000.000	23968.026	6048199.96	16.4240	A	3.8
7	☐	50000.000	48299.023	12074305.30	33.0259	A	1.1
8	☐	250000.00	250418.10	60171218.01	170.9387	A	1.2

$$y = 6.8233\text{E-}004 * x + 0.0698$$

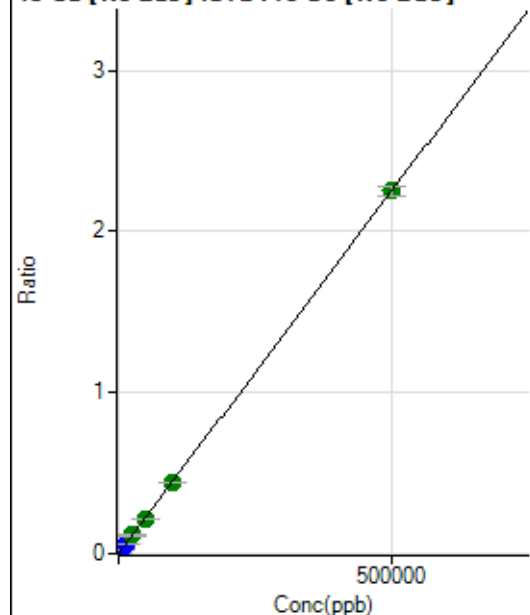
$$R = 1.0000$$

$$DL = 3.484$$

$$BEC = 102.3$$

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	519.58	0.0000	P	5.3
2	☐	500.000	458.788	25091.05	0.0021	P	1.2
3	☐	5000.000	5218.493	270461.87	0.0235	P	1.1
4	☐	12500.000	12452.724	669143.12	0.0561	P	1.1
5	☐	25000.000	25450.978	1357593.19	0.1145	A	2.5
6	☐	50000.000	47681.854	2658924.56	0.2146	A	2.8
7	☐	100000.00	99235.952	5268199.77	0.4465	A	0.2
8	☐	500000.00	500361.11	25967949.51	2.2512	A	2.8

$$y = 4.4990\text{E-}006 * x + 4.4280\text{E-}005$$

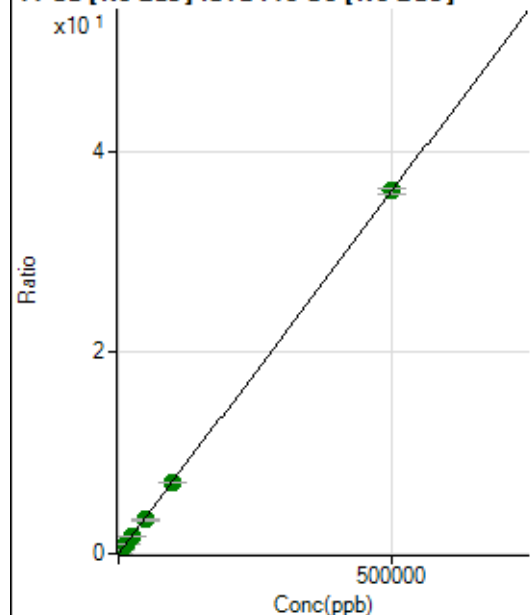
$$R = 1.0000$$

$$DL = 1.552$$

$$BEC = 9.842$$

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	49747.25	0.0042	P	0.3
2	☐	500.000	464.397	448180.03	0.0377	P	0.9
3	☐	5000.000	5262.794	4403113.69	0.3830	A	2.6
4	☐	12500.000	12429.658	10725551.48	0.8987	A	1.3
5	☐	25000.000	24353.795	20823163.40	1.7568	A	1.2
6	☐	50000.000	46902.324	41876155.48	3.3795	A	3.6
7	☐	100000.00	97606.666	82924881.36	7.0284	A	0.1
8	☐	500000.00	500819.91	415809794.3	36.0454	A	1.6

$$y = 7.1964\text{E-}005 * x + 0.0042$$

$$R = 1.0000$$

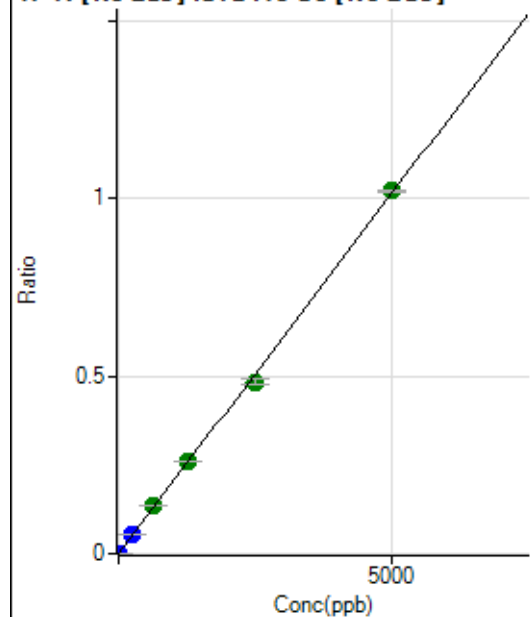
$$DL = 0.4908$$

$$BEC = 58.93$$

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	375.02	0.0000	P	16.4
2	☐	5.000	5.026	12497.49	0.0011	P	1.3
3	☐	250.000	275.048	640930.62	0.0557	P	1.7
4	☐	625.000	657.508	1589915.65	0.1332	A	0.5
5	☐	1250.000	1284.923	3085163.63	0.2603	A	1.7
6	☐	2500.000	2389.548	5998650.22	0.4841	A	3.1
7	☐	5000.000	5041.179	12047665.63	1.0212	A	0.8
8	☐			4950.98	0.0004	P	7.2

$$y = 2.0256E-004 * x + 3.1999E-005$$

$$R = 0.9996$$

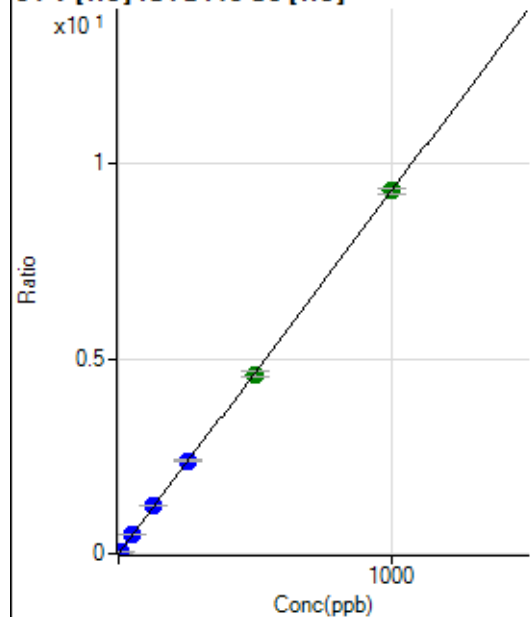
$$DL = 0.0778$$

$$BEC = 0.158$$

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	11.11	0.0000	P	34.6
2	☐	5.000	4.929	16657.56	0.0459	P	2.5
3	☐	50.000	51.730	178496.20	0.4816	P	2.3
4	☐	125.000	130.484	440526.73	1.2147	P	0.9
5	☐	250.000	256.137	843579.12	2.3844	P	1.9
6	☐	500.000	495.246	1697619.42	4.6102	A	4.1
7	☐	1000.000	1000.071	3403646.75	9.3096	A	1.6
8	☐			1286.74	0.0037	P	12.0

$$y = 0.0093 * x + 3.0654E-005$$

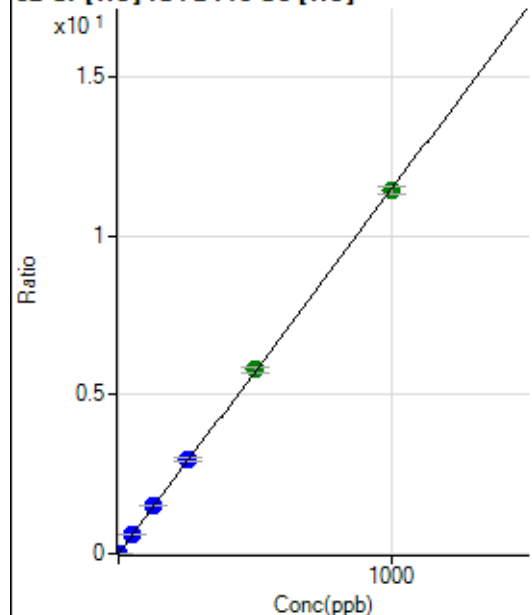
$$R = 1.0000$$

$$DL = 0.003418$$

$$BEC = 0.003293$$

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	951.15	0.0026	P	5.4
2	☐	2.000	1.931	8995.13	0.0248	P	1.2
3	☐	50.000	52.204	223096.78	0.6019	P	1.6
4	☐	125.000	130.540	544382.40	1.5011	P	1.4
5	☐	250.000	258.185	1049388.49	2.9663	P	2.6
6	☐	500.000	503.918	2131331.42	5.7870	A	3.4
7	☐	1000.000	995.192	4177619.35	11.4262	A	2.2
8	☐			13791.18	0.0392	P	2.0

$$y = 0.0115 * x + 0.0026$$

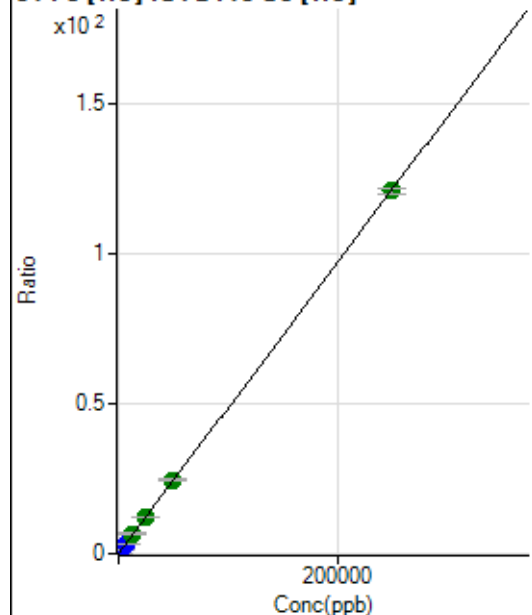
$$R = 0.9999$$

$$DL = 0.03696$$

$$BEC = 0.2286$$

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	848.19	0.0023	P	1.7
2	☐	50.000	51.021	9809.08	0.0270	P	2.4
3	☐	2500.000	2696.490	484657.07	1.3075	P	1.6
4	☐	6250.000	6787.769	1192414.46	3.2878	P	0.5
5	☐	12500.000	13780.495	2360702.05	6.6724	A	2.5
6	☐	25000.000	25184.981	4490862.40	12.1925	A	3.3
7	☐	50000.000	50847.562	8999055.76	24.6138	A	1.0
8	☐	250000.00	249732.55	42548674.56	120.8791	A	1.7

$$y = 4.8402E-004 * x + 0.0023$$

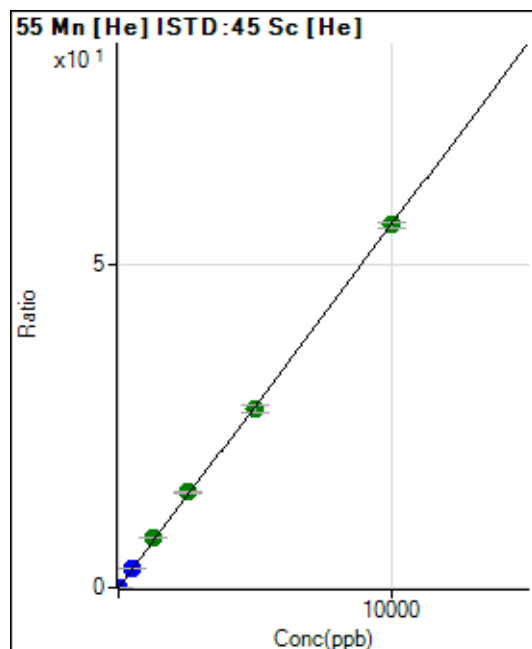
$$R = 1.0000$$

$$DL = 0.2522$$

$$BEC = 4.835$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	395.56	0.0011	P	8.8
2	☐	1.000	1.017	2470.24	0.0068	P	4.7
3	☐	500.000	528.348	1101124.78	2.9706	P	1.7
4	☐	1250.000	1361.097	2774857.18	7.6510	A	1.4
5	☐	2500.000	2638.268	5246299.23	14.8292	A	2.4
6	☐	5000.000	4922.363	10187766.51	27.6667	A	4.1
7	☐	10000.000	9988.947	20525953.03	56.1430	A	1.3
8	☐			35647.85	0.1013	P	1.6

$$y = 0.0056 * x + 0.0011$$

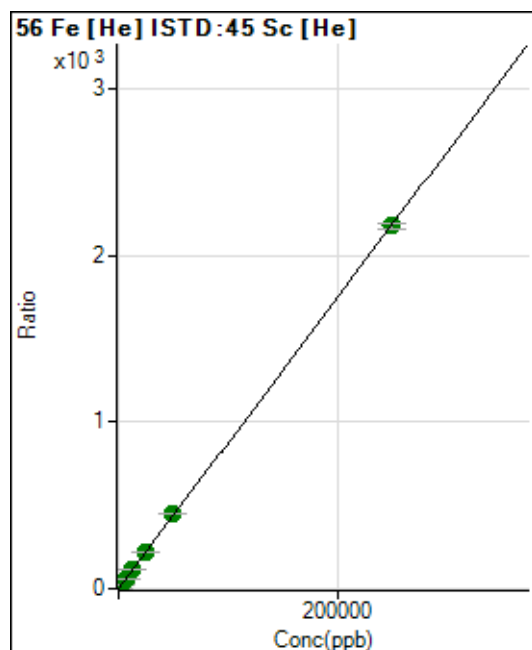
$$R = 0.9998$$

$$DL = 0.05107$$

$$BEC = 0.1942$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6886.95	0.0190	P	2.4
2	☐	50.000	50.174	165473.34	0.4562	P	1.1
3	☐	2500.000	2718.604	8787200.43	23.7053	A	2.5
4	☐	6250.000	6796.694	21482808.12	59.2364	A	1.4
5	☐	12500.000	13307.518	41025865.27	115.9631	A	2.4
6	☐	25000.000	25040.274	80350268.46	218.1869	A	3.7
7	☐	50000.000	51423.992	163810942.5	448.0598	A	0.6
8	☐	250000.00	249654.94	765642720.8	2,175.182	A	1.8

$$y = 0.0087 * x + 0.0190$$

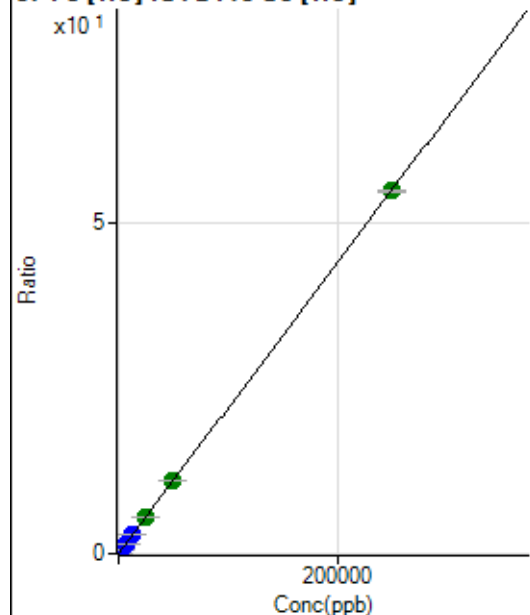
$$R = 1.0000$$

$$DL = 0.1551$$

$$BEC = 2.181$$

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	322.23	0.0009	P	7.2
2	☐	50.000	49.159	4241.45	0.0117	P	2.2
3	☐	2500.000	2653.963	216481.06	0.5840	P	1.7
4	☐	6250.000	6615.789	527501.26	1.4545	P	1.2
5	☐	12500.000	13172.544	1024310.78	2.8952	P	1.6
6	☐	25000.000	25274.173	2045256.69	5.5541	A	4.2
7	☐	50000.000	50625.901	4067055.18	11.1244	A	1.0
8	☐	250000.00	249803.09	19323334.46	54.8878	A	0.6

$$y = 2.1972\text{E-}004 * x + 8.8895\text{E-}004$$

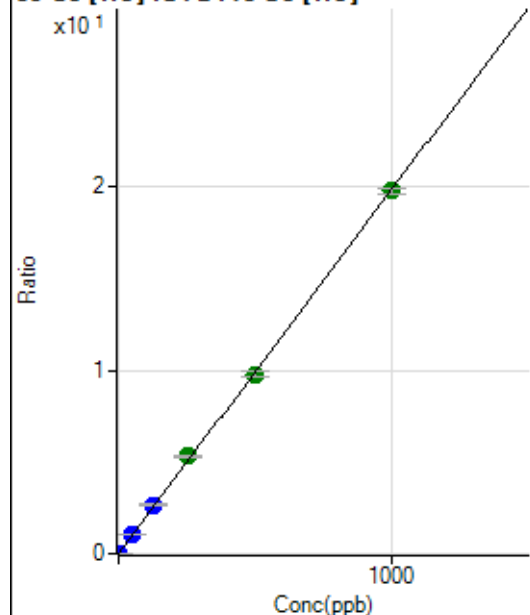
$$R = 1.0000$$

$$DL = 0.8699$$

$$BEC = 4.046$$

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	92.23	0.0003	P	30.8
2	☐	1.000	1.005	7327.51	0.0202	P	0.3
3	☐	50.000	53.302	392187.10	1.0580	P	1.0
4	☐	125.000	134.680	969374.21	2.6728	P	0.4
5	☐	250.000	268.426	1884645.35	5.3269	A	1.8
6	☐	500.000	493.969	3610534.36	9.8025	A	3.1
7	☐	1000.000	997.034	7233374.89	19.7853	A	1.4
8	☐			11235.65	0.0319	P	1.8

$$y = 0.0198 * x + 2.5431\text{E-}004$$

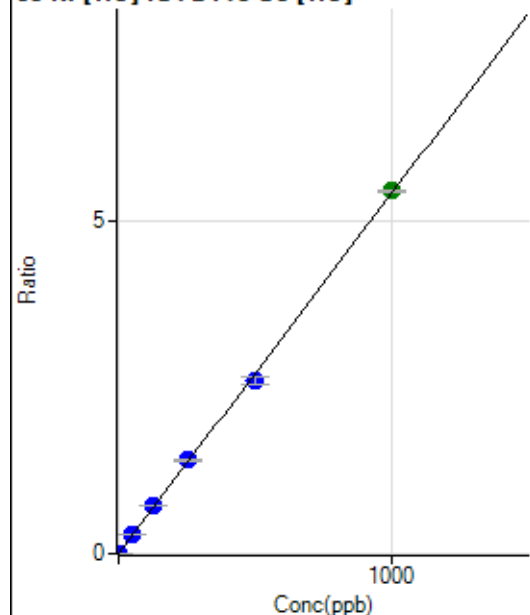
$$R = 0.9998$$

$$DL = 0.01183$$

$$BEC = 0.01282$$

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	212.23	0.0006	P	13.6
2	☐	1.000	1.071	2313.54	0.0064	P	4.1
3	☐	50.000	53.623	107692.88	0.2905	P	1.6
4	☐	125.000	132.049	259163.57	0.7146	P	0.7
5	☐	250.000	258.849	495387.57	1.4002	P	1.9
6	☐	500.000	479.629	955294.30	2.5940	P	3.7
7	☐	1000.000	1006.911	1990700.31	5.4450	A	0.7
8	☐			4980.92	0.0142	P	2.2

$$y = 0.0054 * x + 5.8573E-004$$

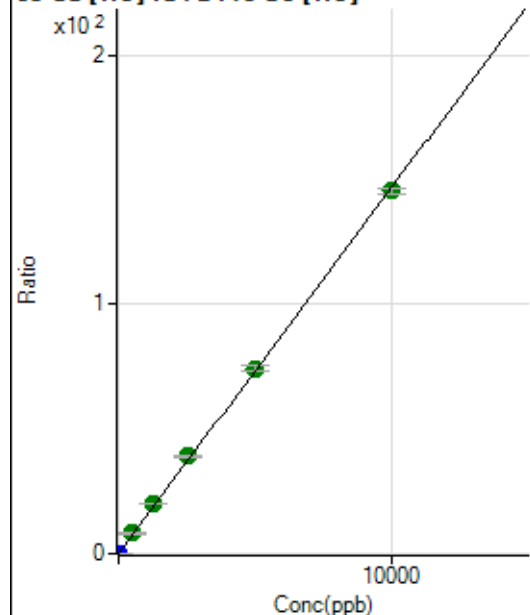
$$R = 0.9996$$

$$DL = 0.04418$$

$$BEC = 0.1083$$

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	1424.53	0.0039	P	6.0
2	☐	2.000	2.069	12445.53	0.0343	P	1.2
3	☐	500.000	557.797	3036792.38	8.1936	A	2.9
4	☐	1250.000	1360.583	7245729.20	19.9801	A	2.5
5	☐	2500.000	2659.704	13817679.93	39.0540	A	1.3
6	☐	5000.000	5060.260	27370887.09	74.2992	A	2.6
7	☐	10000.000	9913.231	53211795.87	145.5509	A	1.7
8	☐			19880.80	0.0565	P	4.0

$$y = 0.0147 * x + 0.0039$$

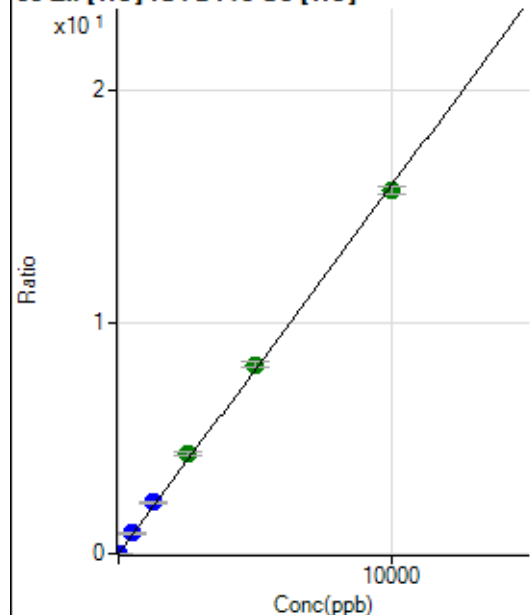
$$R = 0.9998$$

$$DL = 0.04816$$

$$BEC = 0.2677$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

$$y = 0.0016 * x + 0.0031$$

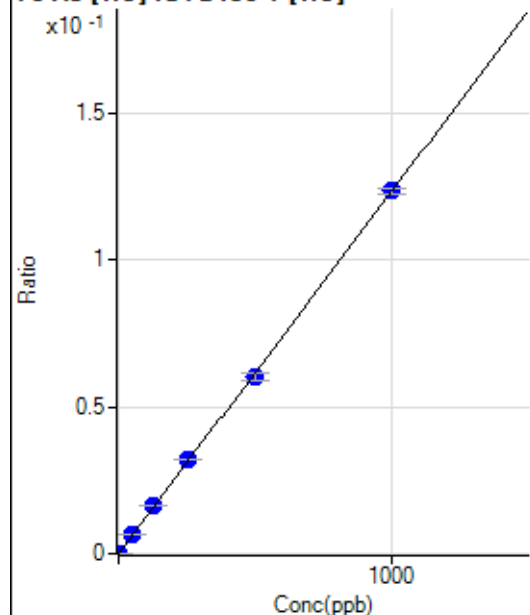
$$R = 0.9996$$

$$DL = 0.4533$$

$$BEC = 1.981$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

$$y = 1.2340E-004 * x + 4.2046E-006$$

$$R = 0.9998$$

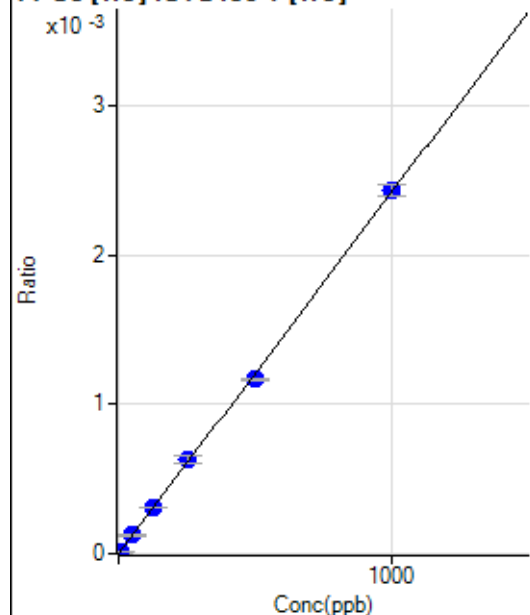
$$DL = 0.05195$$

$$BEC = 0.03407$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.8
2	☐	5.000	5.187	40.00	0.0000	P	45.1
3	☐	50.000	51.187	362.23	0.0001	P	8.4
4	☐	125.000	127.356	898.93	0.0003	P	3.1
5	☐	250.000	262.730	1823.47	0.0006	P	8.3
6	☐	500.000	483.182	3468.25	0.0012	P	1.2
7	☐	1000.000	1004.872	7088.53	0.0024	P	3.1
8	☐			3.33	0.0000	P	99.8

$$y = 2.4209\text{E-}006 * x + 1.1115\text{E-}006$$

$$R = 0.9997$$

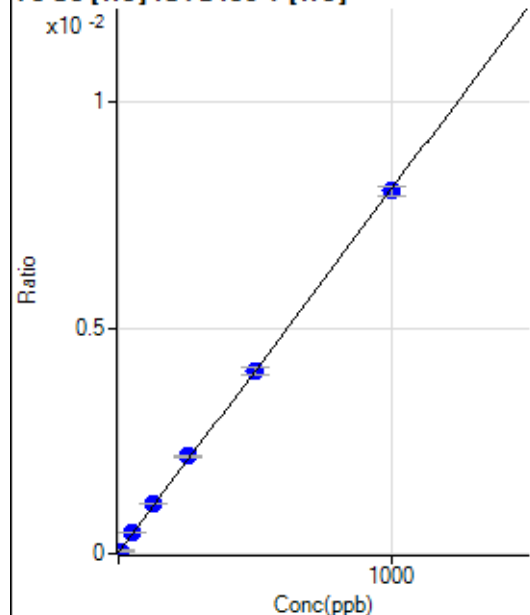
$$DL = 1.375$$

$$BEC = 0.4591$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	75.34	0.0000	P	7.0
2	☐	5.000	4.688	184.35	0.0001	P	4.0
3	☐	50.000	55.627	1371.87	0.0005	P	2.0
4	☐	125.000	135.754	3251.04	0.0011	P	0.5
5	☐	250.000	264.837	6177.32	0.0022	P	1.5
6	☐	500.000	499.829	11989.31	0.0041	P	3.8
7	☐	1000.000	994.752	23412.74	0.0080	P	2.3
8	☐			77.34	0.0000	P	13.4

$$y = 8.0549\text{E-}006 * x + 2.5518\text{E-}005$$

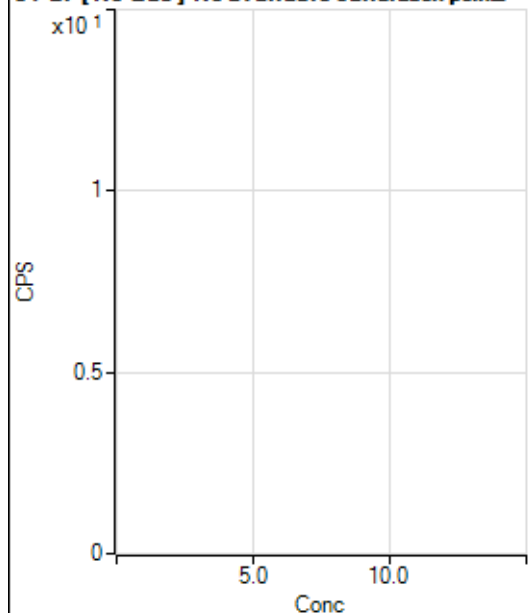
$$R = 0.9998$$

$$DL = 0.6695$$

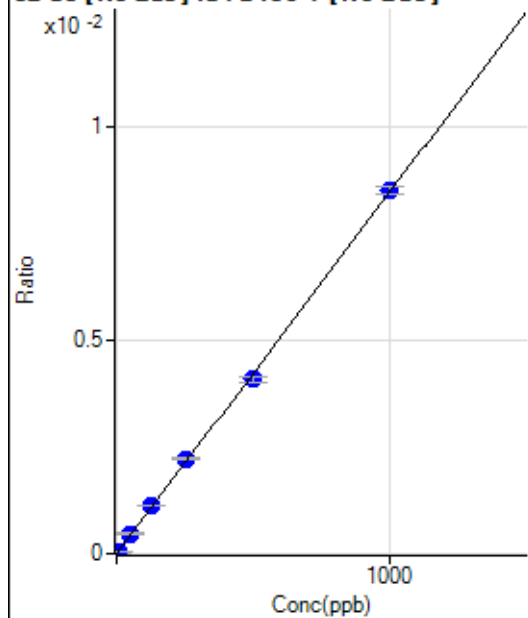
$$BEC = 3.168$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23463.92		P	2.2
2	☐			22965.98		P	4.5
3	☐			22417.85		P	1.1
4	☐			22665.13		P	2.4
5	☐			23620.94		P	1.2
6	☐			21552.12		P	1.0
7	☐			22220.59		P	4.3
8	☐			22361.12		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-28.71	0.0000	P	-581.
2	☐	5.000	4.414	1005.40	0.0000	P	17.1
3	☐	50.000	55.716	12696.20	0.0005	P	1.5
4	☐	125.000	134.002	31410.25	0.0011	P	0.8
5	☐	250.000	262.920	61309.38	0.0022	P	2.1
6	☐	500.000	481.904	118321.59	0.0041	P	3.6
7	☐	1000.000	1004.410	235769.26	0.0085	P	2.0
8	☐			224.69	0.0000	P	50.2

$$y = 8.4798E-006 * x - 9.5947E-007$$

$$R = 0.9996$$

$$DL = 1.973$$

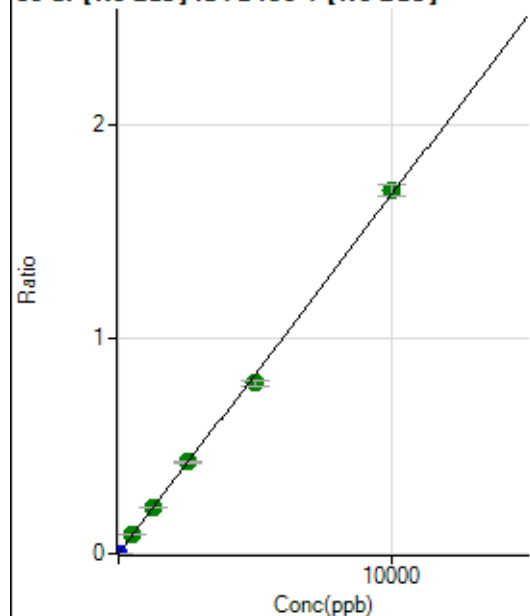
$$BEC = -0.1131$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3828.34		P	3.5
2	☐			4055.07		P	3.2
3	☐			3801.66		P	1.5
4	☐			3859.46		P	1.4
5	☐			3810.55		P	3.4
6	☐			3861.68		P	1.0
7	☐			3784.99		P	2.1
8	☐			3731.64		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6048.68	0.0002	P	5.8
2	☐	1.000	0.991	10662.71	0.0004	P	3.2
3	☐	500.000	536.550	2420933.82	0.0899	A	1.2
4	☐	1250.000	1285.540	5950089.98	0.2151	A	2.7
5	☐	2500.000	2551.262	11738603.91	0.4266	A	0.6
6	☐	5000.000	4749.278	22998089.06	0.7940	A	3.1
7	☐	10000.000	10106.276	46762188.20	1.6893	A	3.2
8	☐			45591.86	0.0017	P	0.6

$$y = 1.6713E-004 * x + 2.2115E-004$$

$$R = 0.9995$$

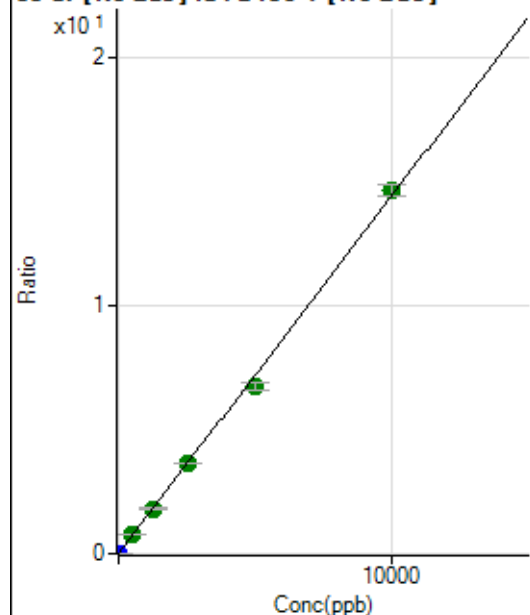
$$DL = 0.2321$$

$$BEC = 1.323$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	561.14	0.0000	P	5.4
2	☐	1.000	0.961	38693.48	0.0014	P	1.4
3	☐	500.000	521.656	20219503.58	0.7508	A	1.7
4	☐	1250.000	1260.791	50204716.05	1.8147	A	0.6
5	☐	2500.000	2536.243	100433534.1	3.6504	A	1.4
6	☐	5000.000	4680.934	195143882.1	6.7373	A	4.3
7	☐	10000.000	10148.040	404315875.7	14.6061	A	3.2
8	☐			328740.80	0.0123	P	0.2

$$y = 0.0014 * x + 2.0495E-005$$

$$R = 0.9992$$

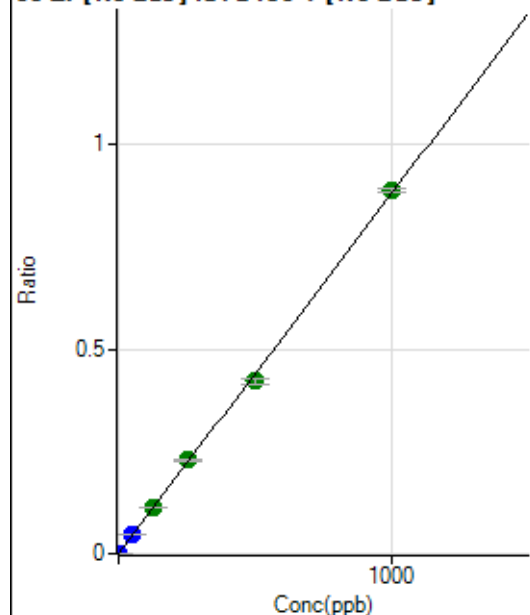
$$DL = 0.002293$$

$$BEC = 0.01424$$

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	1441.78	0.0001	P	3.6
2	☐	1.000	0.974	25078.80	0.0009	P	1.1
3	☐	50.000	53.267	1264195.01	0.0469	P	1.8
4	☐	125.000	129.192	3148303.04	0.1138	A	1.6
5	☐	250.000	259.461	6287256.69	0.2285	A	1.5
6	☐	500.000	478.788	12210240.55	0.4216	A	3.7
7	☐	1000.000	1007.554	24562754.71	0.8871	A	0.9
8	☐			16871.76	0.0006	P	4.8

$$y = 8.8041E-004 * x + 5.2672E-005$$

$$R = 0.9996$$

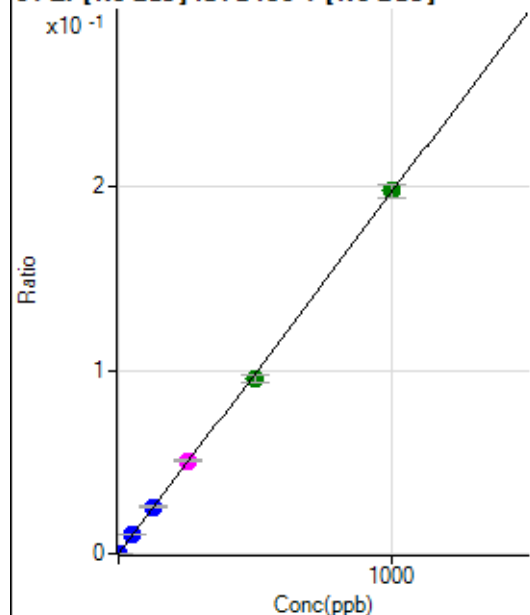
$$DL = 0.006546$$

$$BEC = 0.05983$$

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	322.23	0.0000	P	13.2
2	☐	1.000	0.974	5612.40	0.0002	P	5.9
3	☐	50.000	53.158	282440.11	0.0105	P	0.8
4	☐	125.000	128.880	703008.00	0.0254	P	2.7
5	☐	250.000	257.392	1395902.73	0.0507	M	2.1
6	☐	500.000	485.500	2771208.72	0.0957	A	3.9
7	☐	1000.000	1004.759	5481393.05	0.1980	A	3.7
8	☐			3606.12	0.0001	P	5.2

$$y = 1.9707\text{E-}004 * x + 1.1800\text{E-}005$$

$$R = 0.9998$$

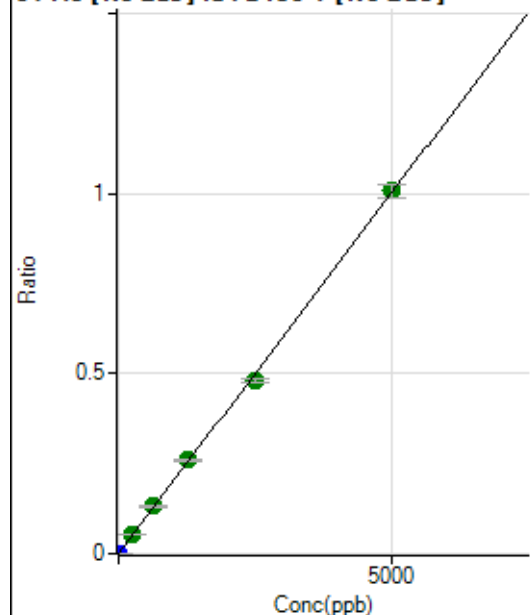
$$DL = 0.02375$$

$$BEC = 0.05988$$

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	522.25	0.0000	P	16.1
2	☐	5.000	4.932	27722.69	0.0010	P	2.5
3	☐	250.000	270.138	1455705.43	0.0541	A	1.5
4	☐	625.000	659.468	3650332.07	0.1319	A	2.0
5	☐	1250.000	1297.002	7138556.93	0.2595	A	3.0
6	☐	2500.000	2404.598	13936071.84	0.4810	A	2.3
7	☐	5000.000	5030.635	27858379.09	1.0064	A	3.6
8	☐			15506.21	0.0006	P	2.0

$$y = 2.0004\text{E-}004 * x + 1.9132\text{E-}005$$

$$R = 0.9997$$

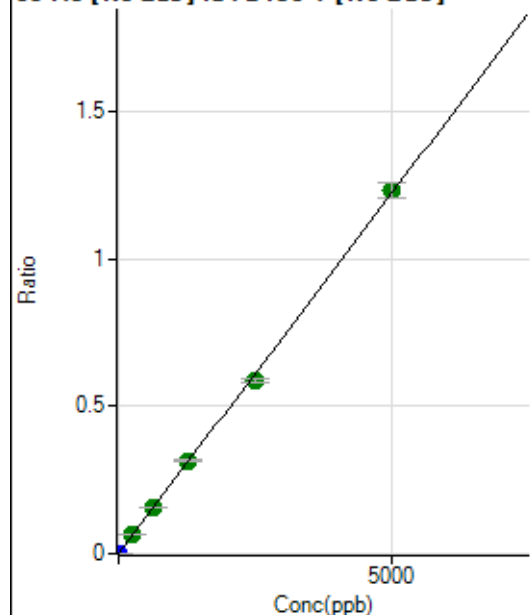
$$DL = 0.04605$$

$$BEC = 0.09564$$

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	61.11	0.0000	P	17.6
2	☐	5.000	4.991	33641.32	0.0012	P	1.4
3	☐	250.000	271.633	1785970.37	0.0663	A	1.4
4	☐	625.000	643.239	4344686.25	0.1570	A	1.6
5	☐	1250.000	1286.356	8639322.24	0.3140	A	2.6
6	☐	2500.000	2399.725	16971871.73	0.5859	A	2.6
7	☐	5000.000	5037.687	34040847.64	1.2299	A	4.4
8	☐			16646.57	0.0006	P	1.3

$$y = 2.4413\text{E-}004 * x + 2.2237\text{E-}006$$

$$R = 0.9997$$

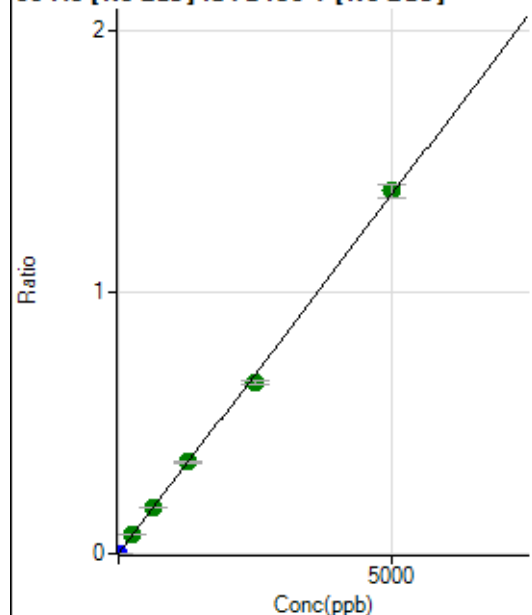
$$DL = 0.004809$$

$$BEC = 0.009108$$

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	211.12	0.0000	P	28.1
2	☐	5.000	5.064	38582.37	0.0014	P	2.6
3	☐	250.000	268.552	1988003.12	0.0738	A	2.0
4	☐	625.000	641.174	4876399.11	0.1763	A	1.3
5	☐	1250.000	1274.507	9639131.73	0.3504	A	2.6
6	☐	2500.000	2374.240	18907142.96	0.6527	A	2.1
7	☐	5000.000	5053.804	38454535.58	1.3893	A	3.8
8	☐			28630.39	0.0011	P	2.0

$$y = 2.7489\text{E-}004 * x + 7.6985\text{E-}006$$

$$R = 0.9995$$

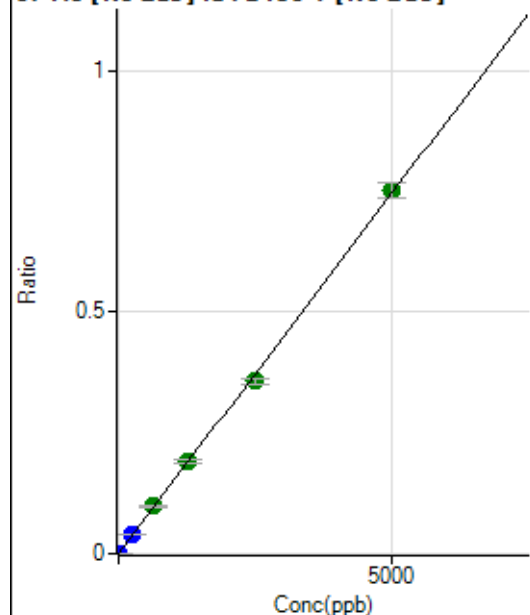
$$DL = 0.02361$$

$$BEC = 0.02801$$

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	44.44	0.0000	P	53.0
2	☐	5.000	5.011	20604.67	0.0007	P	1.3
3	☐	250.000	269.143	1078840.86	0.0401	P	2.3
4	☐	625.000	655.412	2699240.95	0.0976	A	1.4
5	☐	1250.000	1282.073	5250247.38	0.1909	A	2.6
6	☐	2500.000	2393.267	10316866.11	0.3563	A	4.2
7	☐	5000.000	5040.590	20769023.55	0.7503	A	4.1
8	☐			10092.82	0.0004	P	1.5

$$y = 1.4886E-004 * x + 1.6102E-006$$

$$R = 0.9996$$

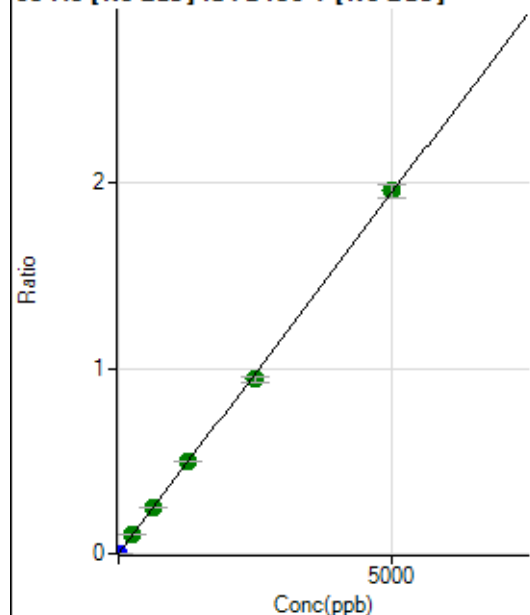
$$DL = 0.0172$$

$$BEC = 0.01082$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	141.67	0.0000	P	8.2
2	☐	5.000	4.933	53010.64	0.0019	P	0.2
3	☐	250.000	267.686	2802659.55	0.1041	A	3.0
4	☐	625.000	636.951	6852411.09	0.2477	A	1.0
5	☐	1250.000	1276.592	13657909.33	0.4964	A	1.3
6	☐	2500.000	2415.894	27209029.77	0.9394	A	3.4
7	☐	5000.000	5033.027	54171095.66	1.9571	A	3.9
8	☐			23837.71	0.0009	P	1.5

$$y = 3.8885E-004 * x + 5.1689E-006$$

$$R = 0.9998$$

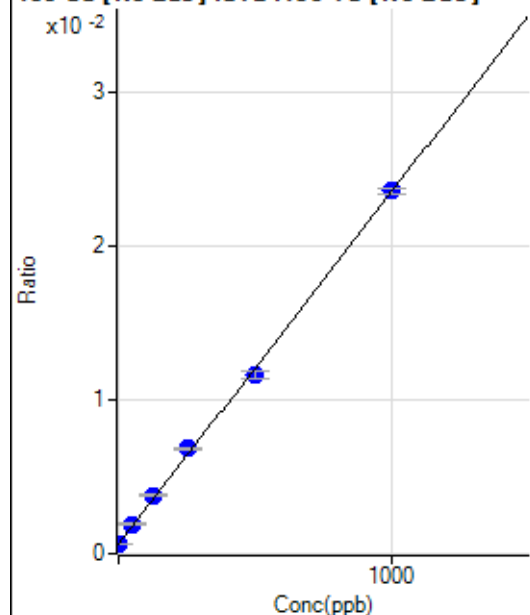
$$DL = 0.003277$$

$$BEC = 0.01329$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8672.40	0.0006	P	1.9
2	☐	1.000	1.763	9233.91	0.0007	P	1.9
3	☐	50.000	57.126	26679.25	0.0019	P	1.8
4	☐	125.000	137.878	53119.82	0.0038	P	2.3
5	☐	250.000	270.683	96071.54	0.0068	P	0.7
6	☐	500.000	480.138	177097.69	0.0116	P	4.9
7	☐	1000.000	1002.793	344752.45	0.0236	P	1.4
8	☐			8889.22	0.0006	P	5.9

$$y = 2.2885E-005 * x + 6.2623E-004$$

$$R = 0.9994$$

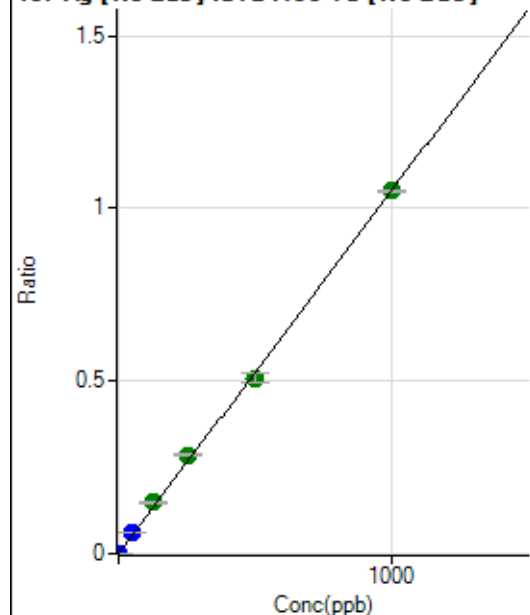
$$DL = 1.523$$

$$BEC = 27.36$$

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	208.34	0.0000	P	11.1
2	☐	1.000	1.014	14969.62	0.0011	P	1.9
3	☐	50.000	56.441	818084.88	0.0593	P	1.3
4	☐	125.000	141.080	2082201.35	0.1482	A	1.2
5	☐	250.000	272.628	4033495.14	0.2864	A	1.3
6	☐	500.000	484.346	7758176.73	0.5088	A	5.1
7	☐	1000.000	999.838	15359564.41	1.0503	A	0.3
8	☐			6793.52	0.0005	P	4.8

$$y = 0.0011 * x + 1.5032E-005$$

$$R = 0.9995$$

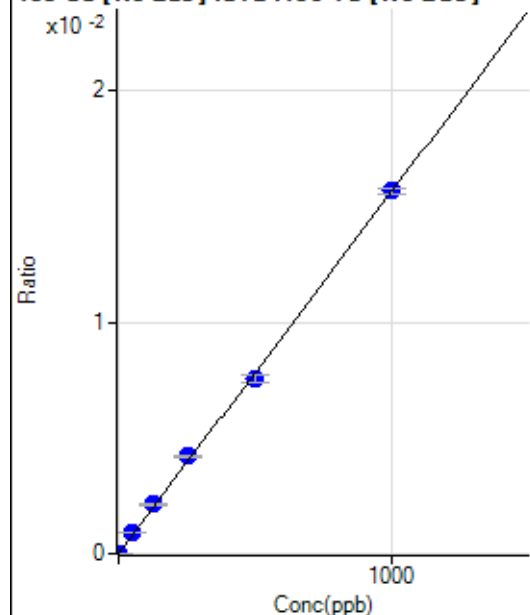
$$DL = 0.004772$$

$$BEC = 0.01431$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	65.28	0.0000	P	46.0
2	☐	1.000	1.106	305.56	0.0000	P	22.3
3	☐	50.000	56.178	12186.06	0.0009	P	1.1
4	☐	125.000	135.703	29888.19	0.0021	P	0.8
5	☐	250.000	269.014	59331.72	0.0042	P	1.1
6	☐	500.000	482.080	115041.41	0.0075	P	4.9
7	☐	1000.000	1002.560	229392.74	0.0157	P	1.9
8	☐			309.73	0.0000	P	7.2

$$y = 1.5642\text{E-}005 * x + 4.7255\text{E-}006$$

$$R = 0.9995$$

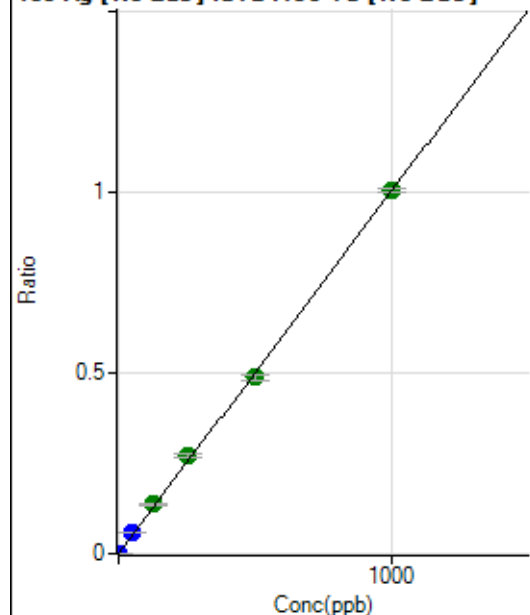
$$DL = 0.4172$$

$$BEC = 0.3021$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.89	0.0000	P	19.1
2	☐	1.000	1.030	14407.93	0.0010	P	2.2
3	☐	50.000	56.349	779052.44	0.0565	P	2.0
4	☐	125.000	135.544	1908716.56	0.1359	A	0.9
5	☐	250.000	270.298	3814960.63	0.2709	A	2.9
6	☐	500.000	485.347	7418138.79	0.4864	A	4.1
7	☐	1000.000	1000.617	14664808.49	1.0028	A	1.1
8	☐			6654.58	0.0005	P	6.2

$$y = 0.0010 * x + 8.2305\text{E-}006$$

$$R = 0.9996$$

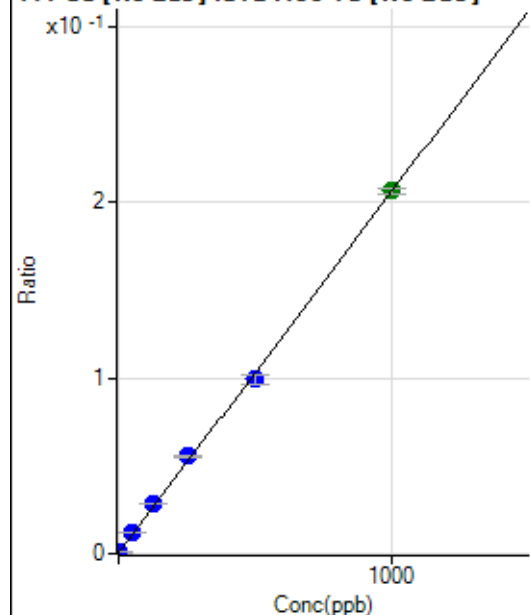
$$DL = 0.004712$$

$$BEC = 0.008212$$

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	6045.82	0.0004	P	1.7
2	☐	1.000	1.133	9273.83	0.0007	P	2.6
3	☐	50.000	56.040	164893.42	0.0120	P	1.2
4	☐	125.000	134.697	395042.95	0.0281	P	1.1
5	☐	250.000	267.722	781103.36	0.0555	P	0.8
6	☐	500.000	481.767	1516163.04	0.0995	P	5.8
7	☐	1000.000	1003.172	3021286.32	0.2066	A	1.9
8	☐			7571.04	0.0005	P	3.8

$$y = 2.0553\text{E-}004 * x + 4.3656\text{E-}004$$

$$R = 0.9996$$

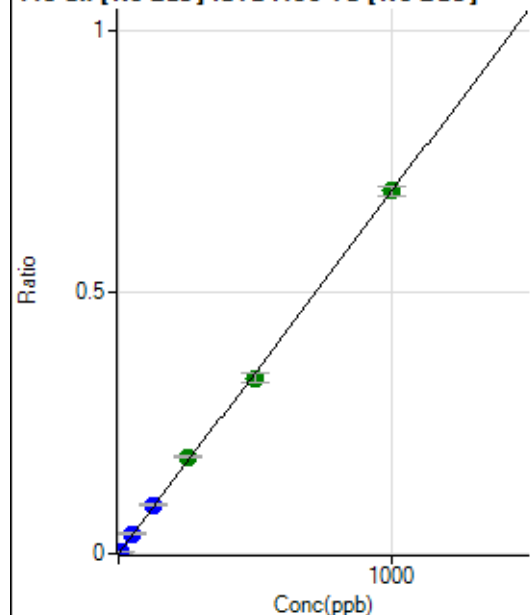
$$DL = 0.1056$$

$$BEC = 2.124$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2589.21	0.0002	P	4.0
2	☐	5.000	5.233	52733.29	0.0038	P	2.2
3	☐	50.000	55.141	528707.39	0.0383	P	1.3
4	☐	125.000	134.409	1308726.22	0.0932	P	1.8
5	☐	250.000	267.241	2605997.49	0.1850	A	1.9
6	☐	500.000	485.392	5121131.54	0.3360	A	5.7
7	☐	1000.000	1001.560	10134579.66	0.6930	A	2.9
8	☐			6674.03	0.0005	P	1.9

$$y = 6.9174\text{E-}004 * x + 1.8693\text{E-}004$$

$$R = 0.9997$$

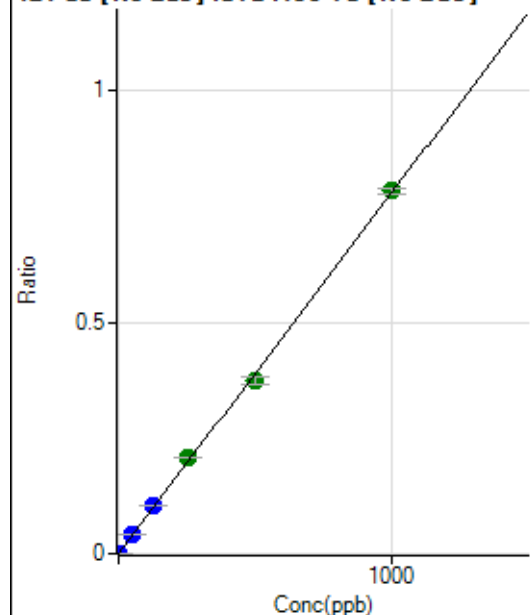
$$DL = 0.03243$$

$$BEC = 0.2702$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	25.8
2	☐	2.000	1.986	21492.48	0.0016	P	1.5
3	☐	50.000	54.326	584501.65	0.0424	P	1.7
4	☐	125.000	133.613	1464075.36	0.1042	P	2.0
5	☐	250.000	266.217	2924429.04	0.2077	A	1.6
6	☐	500.000	478.453	5690403.73	0.3732	A	4.8
7	☐	1000.000	1005.426	11468627.52	0.7842	A	1.3
8	☐			10937.97	0.0008	P	2.8

$$y = 7.8001\text{E-}004 * x + 2.4098\text{E-}006$$

$$R = 0.9995$$

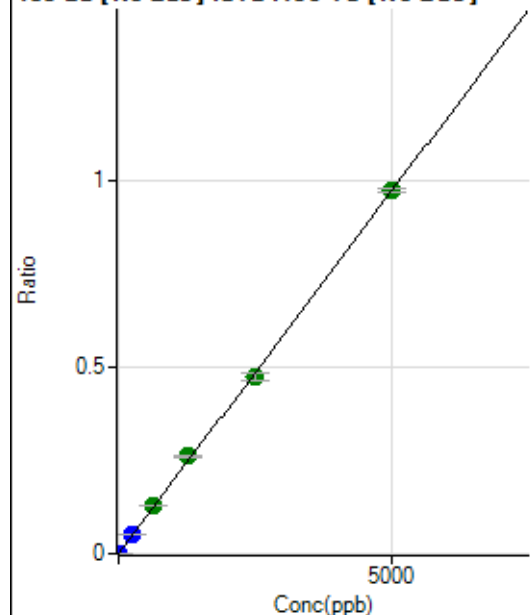
$$DL = 0.002393$$

$$BEC = 0.003089$$

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	55.56	0.0000	P	30.8
2	☐	10.000	9.974	26924.76	0.0019	P	0.7
3	☐	250.000	269.302	722371.17	0.0524	P	2.1
4	☐	625.000	668.310	1825713.00	0.1300	A	1.7
5	☐	1250.000	1340.868	3672071.70	0.2607	A	2.1
6	☐	2500.000	2429.965	7205567.26	0.4725	A	4.4
7	☐	5000.000	5005.922	14235494.24	0.9734	A	1.0
8	☐			7627.42	0.0005	P	6.6

$$y = 1.9445\text{E-}004 * x + 4.0070\text{E-}006$$

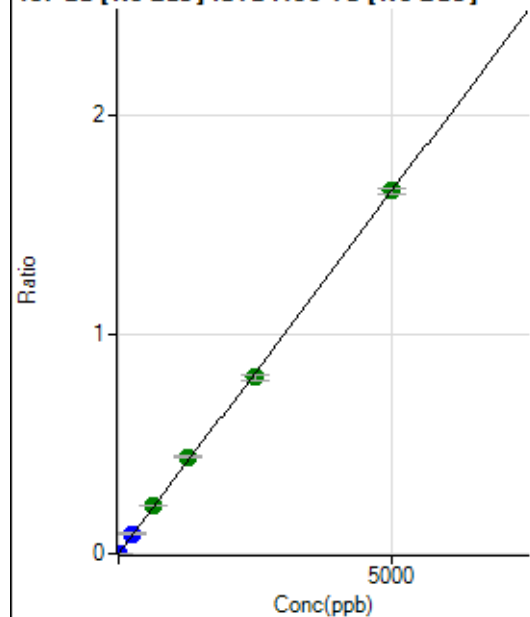
$$R = 0.9997$$

$$DL = 0.01901$$

$$BEC = 0.02061$$

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	111.11	0.0000	P	18.4
2	☐	10.000	10.047	46160.22	0.0033	P	3.1
3	☐	250.000	277.515	1266566.50	0.0918	P	2.6
4	☐	625.000	663.986	3086891.09	0.2197	A	1.9
5	☐	1250.000	1334.166	6217760.90	0.4415	A	0.9
6	☐	2500.000	2432.618	12278237.69	0.8049	A	3.7
7	☐	5000.000	5006.401	24225707.66	1.6565	A	1.5
8	☐			12995.53	0.0009	P	5.4

$$y = 3.3088E-004 * x + 8.0319E-006$$

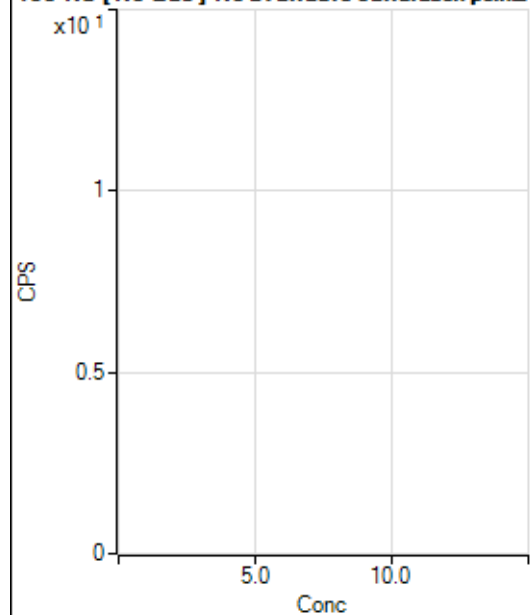
$$R = 0.9997$$

$$DL = 0.01337$$

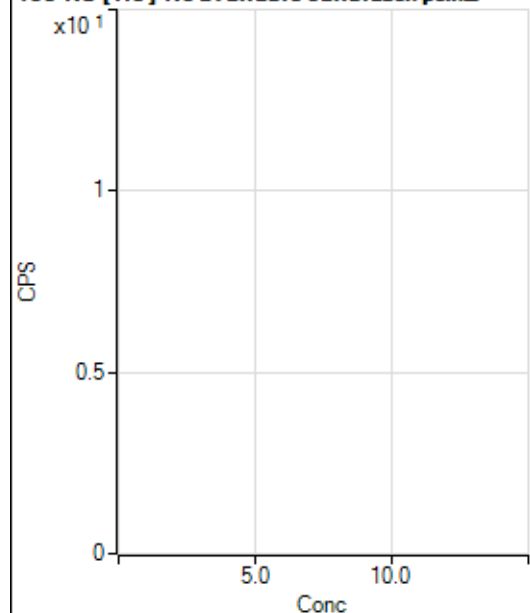
$$BEC = 0.02427$$

Weight: <None>

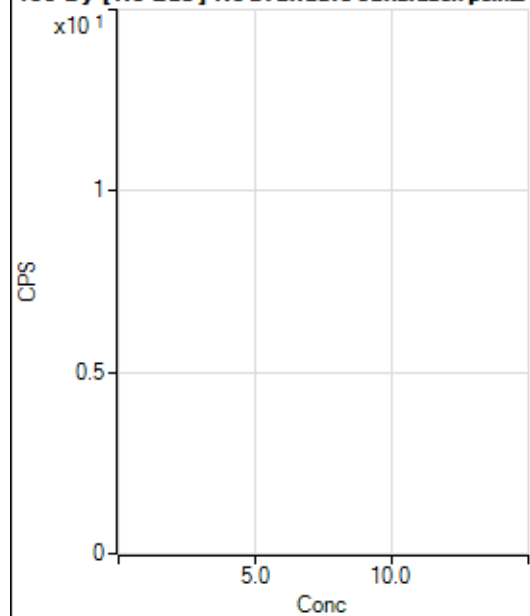
Min Conc: 0

150 Nd [No Gas] No available calibration points

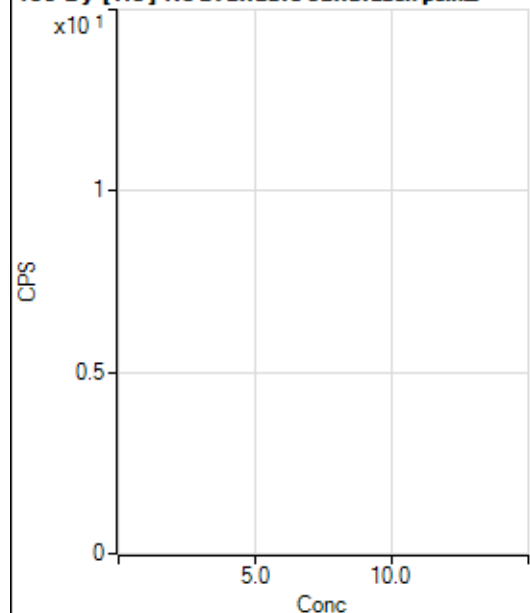
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.2
2	☐			13.33		P	173.2
3	☐			57.78		P	17.6
4	☐			75.56		P	13.5
5	☐			231.12		P	22.4
6	☐			382.24		P	6.6
7	☐			731.15		P	1.4
8	☐			84.45		P	19.9

150 Nd [He] No available calibration points

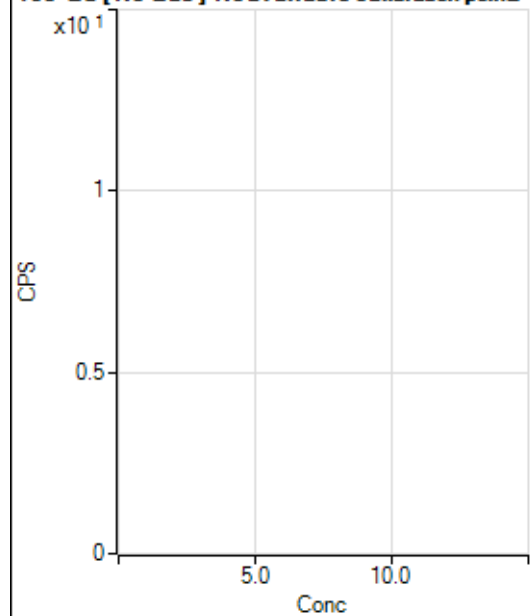
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			11.11		P	62.5
5	☐			16.67		P	40.0
6	☐			26.67		P	12.5
7	☐			53.34		P	10.8
8	☐			33.33		P	30.0

156 Dy [No Gas] No available calibration points

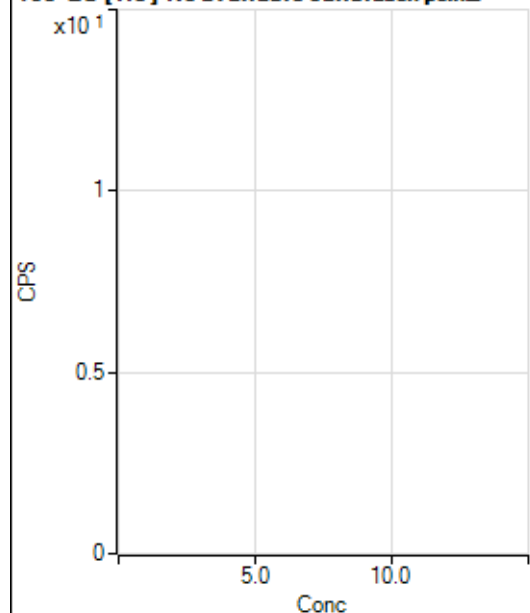
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			19.45		P	24.7
3	☐			41.67		P	52.9
4	☐			94.45		P	5.1
5	☐			202.79		P	22.6
6	☐			261.12		P	11.2
7	☐			547.25		P	13.7
8	☐			1986.30		P	8.4

156 Dy [He] No available calibration points

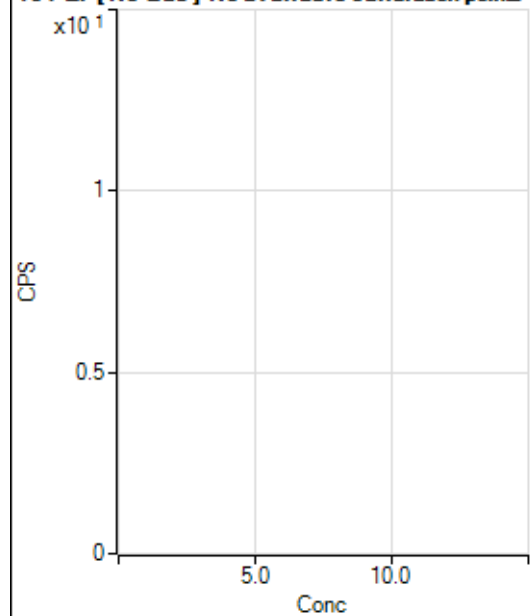
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			3.33		P	100.1
3	☐			23.33		P	37.8
4	☐			33.33		P	36.1
5	☐			50.00		P	6.7
6	☐			123.34		P	28.1
7	☐			236.67		P	12.2
8	☐			850.04		P	2.4

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

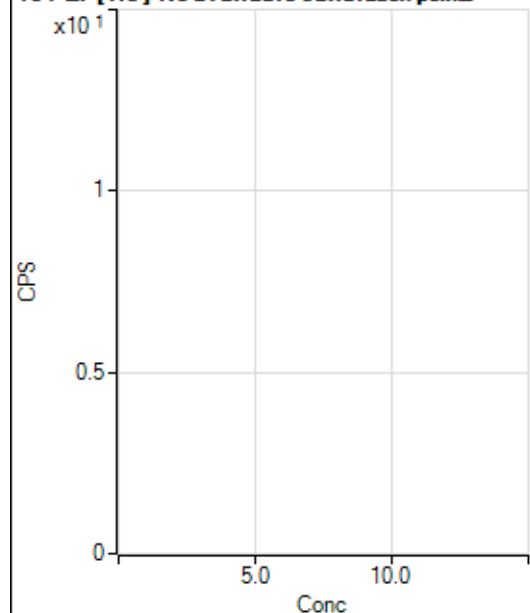
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	12.1
2	☐			125.00		P	26.7
3	☐			136.12		P	30.8
4	☐			161.12		P	13.0
5	☐			188.90		P	25.9
6	☐			275.01		P	3.0
7	☐			430.58		P	8.1
8	☐			1769.61		P	9.5

160 Gd [He] No available calibration points

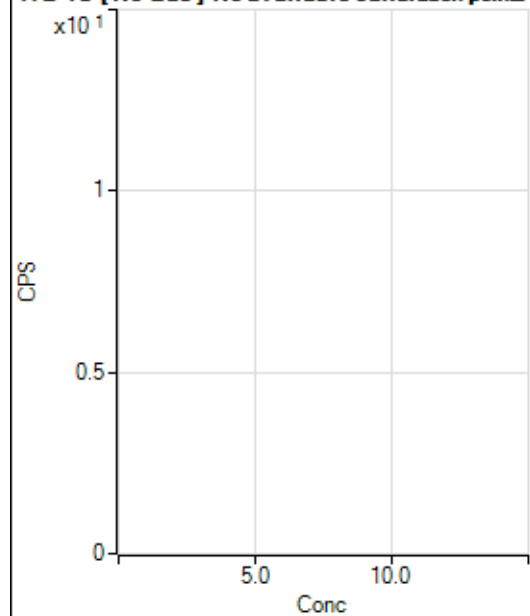
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.33		P	36.2
2	☐			92.22		P	4.2
3	☐			110.00		P	18.4
4	☐			112.22		P	12.0
5	☐			160.01		P	13.0
6	☐			204.45		P	5.7
7	☐			312.23		P	10.1
8	☐			947.82		P	3.1

164 Er [No Gas] No available calibration points

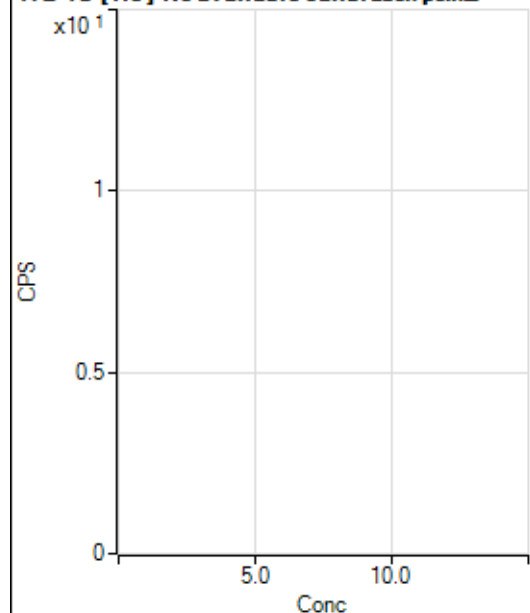
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.23		P	13.3
2	☐			97.23		P	24.7
3	☐			119.45		P	28.2
4	☐			91.67		P	24.1
5	☐			108.33		P	67.1
6	☐			133.34		P	27.2
7	☐			177.78		P	35.5
8	☐			291.68		P	0.0

164 Er [He] No available calibration points

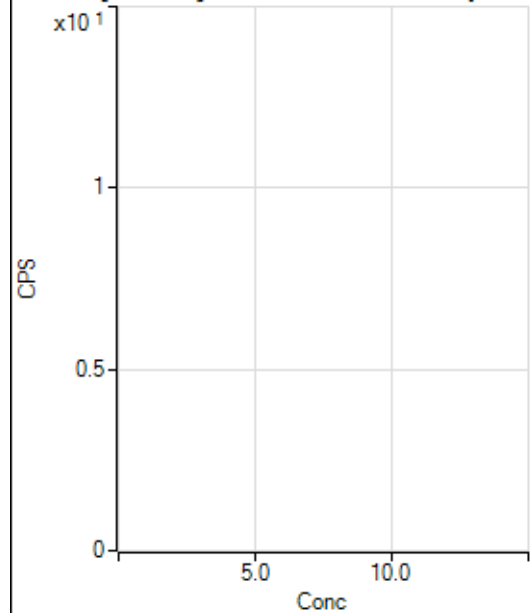
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	5.4
2	☐			44.45		P	65.5
3	☐			37.78		P	5.1
4	☐			33.33		P	17.3
5	☐			61.11		P	26.9
6	☐			44.44		P	11.5
7	☐			84.45		P	23.1
8	☐			130.00		P	5.1

172 Yb [No Gas] No available calibration points

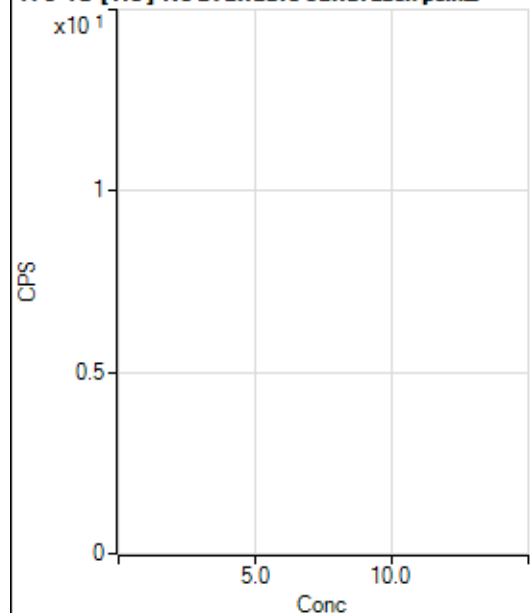
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	47.2
2	☐			36.11		P	58.1
3	☐			66.67		P	21.7
4	☐			55.56		P	45.8
5	☐			36.11		P	74.2
6	☐			41.67		P	72.1
7	☐			61.12		P	34.3
8	☐			169.45		P	12.4

172 Yb [He] No available calibration points

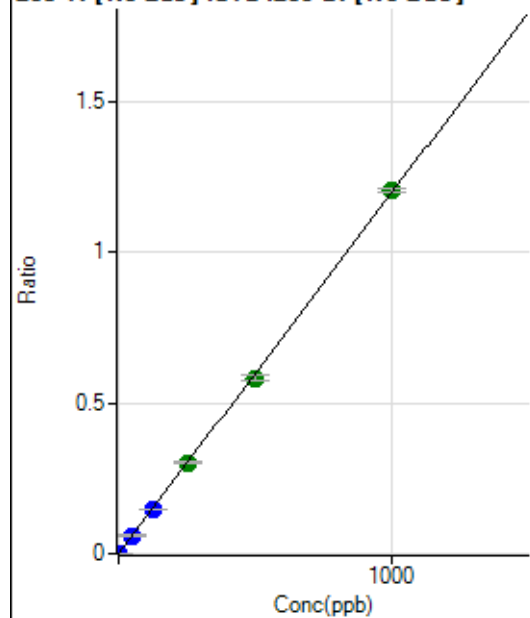
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.93		P	68.9
2	☐			22.22		P	43.3
3	☐			25.92		P	24.7
4	☐			14.82		P	94.4
5	☐			24.07		P	13.3
6	☐			20.37		P	56.8
7	☐			50.00		P	48.4
8	☐			77.78		P	21.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1916.86		P	5.2
2	☐			2003.00		P	6.4
3	☐			3783.99		P	1.3
4	☐			6521.23		P	3.2
5	☐			11155.03		P	5.7
6	☐			20816.88		P	1.9
7	☐			39089.35		P	2.4
8	☐			1886.31		P	6.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8015.56		P	2.0
2	☐			7570.82		P	3.5
3	☐			8334.23		P	1.3
4	☐			9840.83		P	2.2
5	☐			11844.41		P	2.8
6	☐			16777.61		P	1.9
7	☐			25853.35		P	3.1
8	☐			7680.14		P	6.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	272.23	0.0000	P	15.7
2	☐	1.000	0.918	8291.76	0.0011	P	1.8
3	☐	50.000	50.582	429689.98	0.0605	P	0.9
4	☐	125.000	121.746	1059120.17	0.1455	P	0.1
5	☐	250.000	252.043	2201542.08	0.3011	A	2.9
6	☐	500.000	487.319	4437452.96	0.5822	A	2.5
7	☐	1000.000	1006.207	8711173.72	1.2020	A	1.1
8	☐			3533.91	0.0005	P	13.1

$$y = 0.0012 * x + 3.7744E-005$$

$$R = 0.9999$$

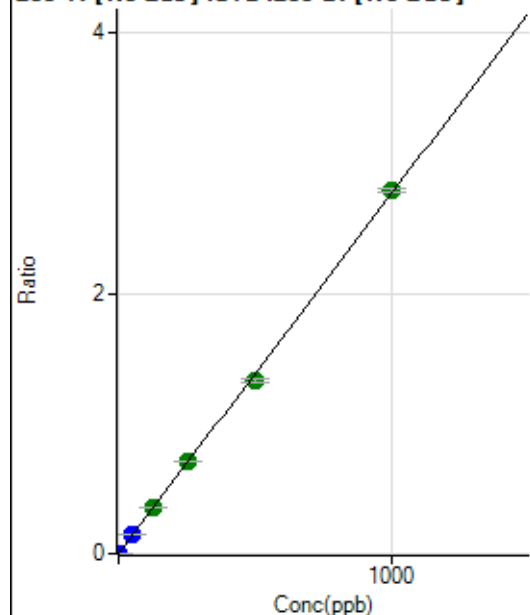
$$DL = 0.0149$$

$$BEC = 0.0316$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	561.14	0.0001	P	18.4
2	☐	1.000	0.939	19581.93	0.0027	P	1.0
3	☐	50.000	51.918	1022222.22	0.1438	P	2.0
4	☐	125.000	129.506	2611606.07	0.3587	A	0.4
5	☐	250.000	256.032	5184868.30	0.7091	A	0.8
6	☐	500.000	480.945	10151859.08	1.3319	A	2.6
7	☐	1000.000	1007.361	20223243.16	2.7896	A	1.1
8	☐			8489.18	0.0013	P	4.5

$$y = 0.0028 * x + 7.8007E-005$$

$$R = 0.9997$$

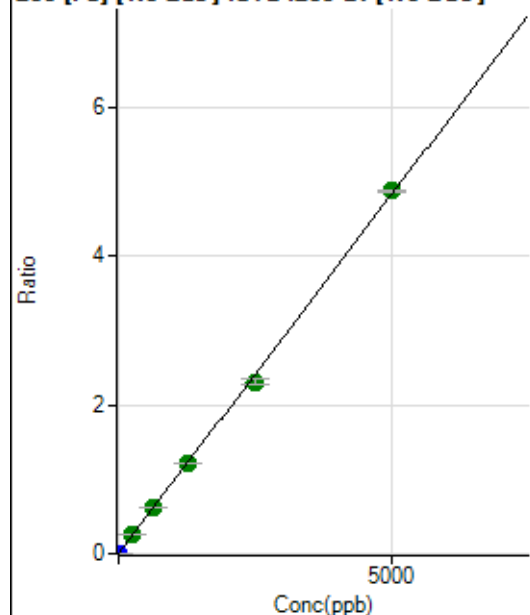
$$DL = 0.01558$$

$$BEC = 0.02817$$

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	861.16	0.0001	P	2.7
2	☐	1.000	0.905	7268.84	0.0010	P	3.6
3	☐	250.000	262.204	1801943.05	0.2536	A	4.0
4	☐	625.000	635.054	4470748.25	0.6141	A	0.5
5	☐	1250.000	1255.758	8878066.64	1.2141	A	1.2
6	☐	2500.000	2389.037	17603984.19	2.3097	A	3.0
7	☐	5000.000	5052.175	35405869.31	4.8844	A	0.6
8	☐			18932.64	0.0029	P	1.3

$$y = 9.6676E-004 * x + 1.1958E-004$$

$$R = 0.9996$$

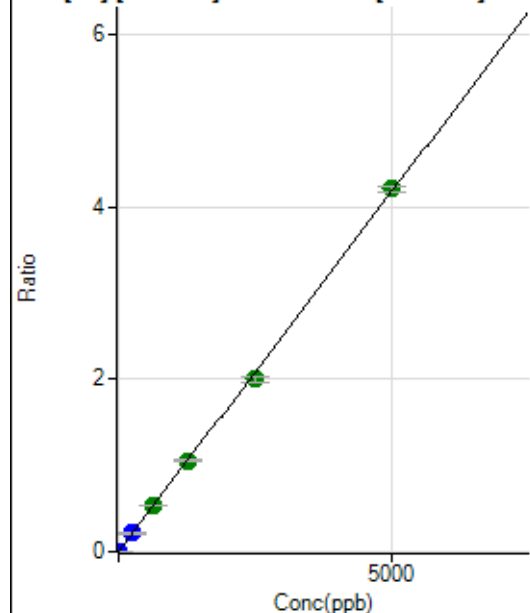
$$DL = 0.01015$$

$$BEC = 0.1237$$

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	833.38	0.0001	P	3.0
2	☐	1.000	0.913	6414.66	0.0009	P	3.1
3	☐	250.000	254.381	1509720.50	0.2125	P	2.3
4	☐	625.000	649.546	3948619.79	0.5423	A	1.4
5	☐	1250.000	1260.589	7695184.78	1.0524	A	1.9
6	☐	2500.000	2402.715	15287092.24	2.0058	A	3.2
7	☐	5000.000	5042.708	30503956.24	4.2095	A	1.6
8	☐			16444.10	0.0025	P	3.5

$$y = 8.3474E-004 * x + 1.1577E-004$$

$$R = 0.9997$$

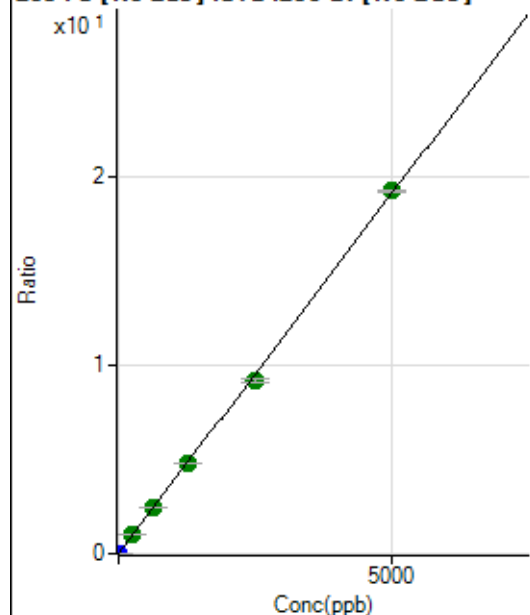
$$DL = 0.01239$$

$$BEC = 0.1387$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3750.29	0.0005	P	4.8
2	☐	1.000	0.927	29643.62	0.0041	P	2.8
3	☐	250.000	263.716	7151019.48	1.0063	A	2.2
4	☐	625.000	640.547	17791361.19	2.4436	A	1.2
5	☐	1250.000	1260.411	35156126.60	4.8077	A	1.2
6	☐	2500.000	2404.411	69896309.66	9.1710	A	3.1
7	☐	5000.000	5042.562	139400774.4	19.2329	A	0.3
8	☐			75236.46	0.0113	P	1.5

$$y = 0.0038 * x + 5.2112E-004$$

$$R = 0.9997$$

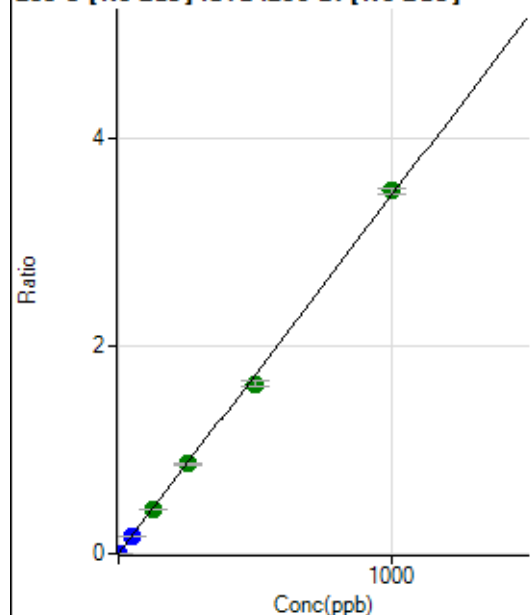
$$DL = 0.01968$$

$$BEC = 0.1366$$

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	16.67	0.0000	P	51.2
2	☐	1.000	0.899	22695.89	0.0031	P	3.9
3	☐	50.000	49.577	1216081.40	0.1711	P	1.6
4	☐	125.000	124.878	3138187.94	0.4310	A	0.6
5	☐	250.000	250.149	6314195.37	0.8634	A	0.9
6	☐	500.000	474.544	12485237.95	1.6380	A	3.4
7	☐	1000.000	1012.727	25341044.49	3.4956	A	1.4
8	☐			7321.83	0.0011	P	6.6

$$y = 0.0035 * x + 2.3225E-006$$

$$R = 0.9995$$

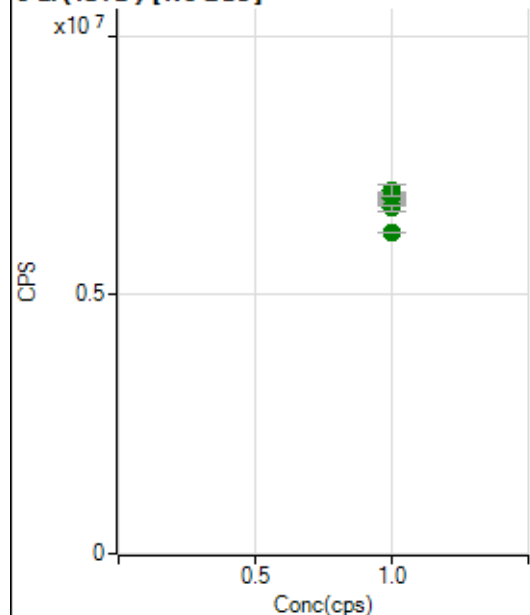
$$DL = 0.001034$$

$$BEC = 0.0006729$$

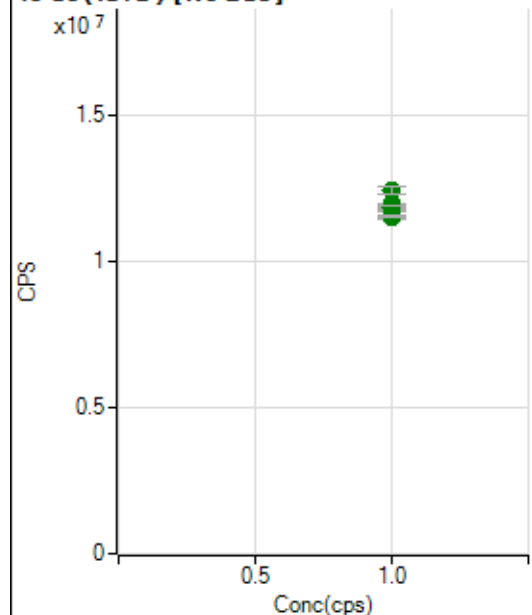
Weight: <None>

Min Conc: 0

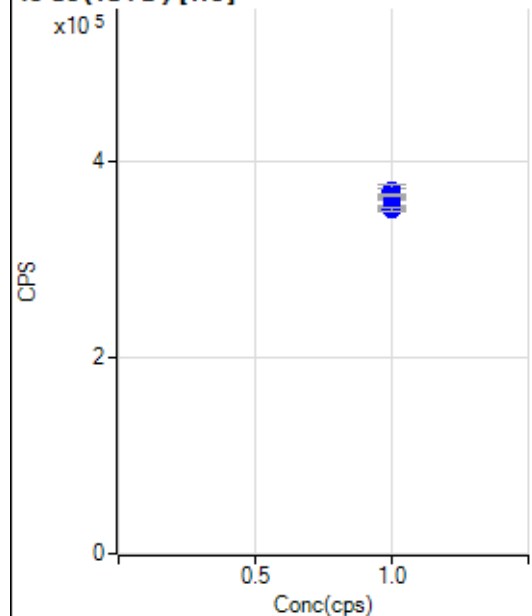
6 Li (ISTD) [No Gas]



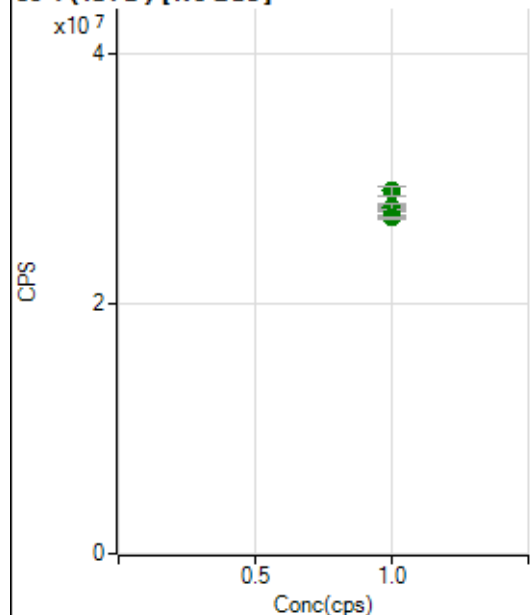
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6747322.22		A	1.3
2	☐	1.000		6904067.47		A	0.8
3	☐	1.000		6776073.21		A	1.0
4	☐	1.000		6859666.04		A	3.2
5	☐	1.000		6759609.23		A	0.5
6	☐	1.000		7002023.56		A	3.3
7	☐	1.000		6673988.89		A	1.8
8	☐	1.000		6200793.40		A	0.5

45 Sc (ISTD) [No Gas]

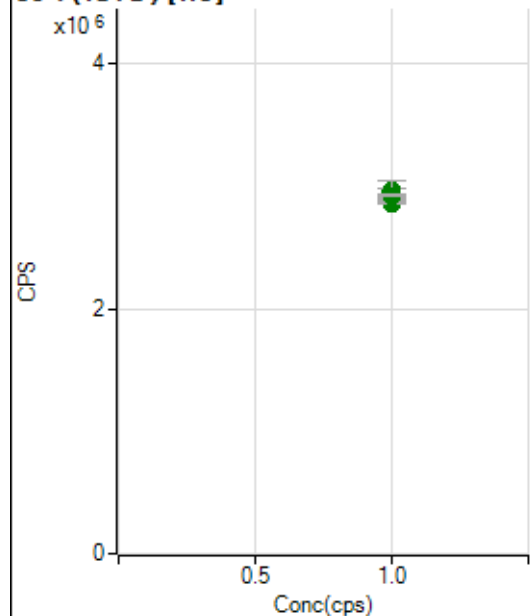
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11730959.83		A	0.9
2	☐	1.000		11900952.74		A	0.7
3	☐	1.000		11498807.19		A	1.0
4	☐	1.000		11934804.54		A	0.7
5	☐	1.000		11853492.19		A	1.0
6	☐	1.000		12397122.04		A	2.2
7	☐	1.000		11798490.24		A	1.2
8	☐	1.000		11536415.38		A	0.6

45 Sc (ISTD) [He]

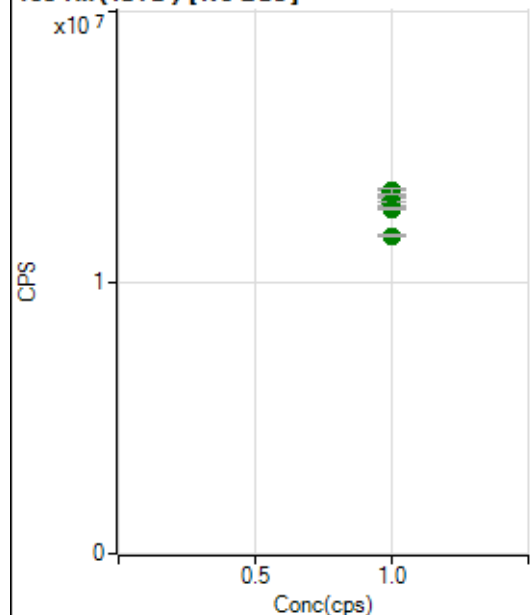
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		362422.99		P	0.5
2	☐	1.000		362773.57		P	0.9
3	☐	1.000		370724.37		P	1.3
4	☐	1.000		362680.62		P	0.6
5	☐	1.000		353841.14		P	1.1
6	☐	1.000		368647.63		P	4.2
7	☐	1.000		365607.28		P	0.5
8	☐	1.000		352035.99		P	1.1

89 Y (ISTD) [No Gas]

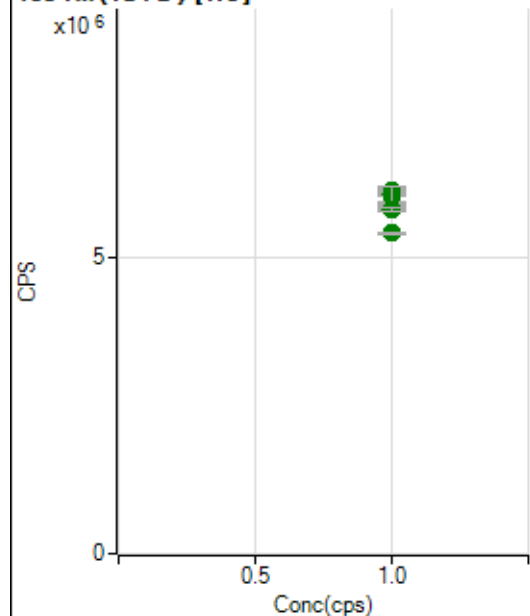
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		27380723.20		A	3.1
2	☐	1.000		27561909.04		A	0.3
3	☐	1.000		26930776.54		A	1.3
4	☐	1.000		27666069.31		A	0.2
5	☐	1.000		27516083.20		A	1.4
6	☐	1.000		28979581.24		A	2.6
7	☐	1.000		27690530.15		A	1.6
8	☐	1.000		26833909.32		A	0.7

89 Y (ISTD) [He]

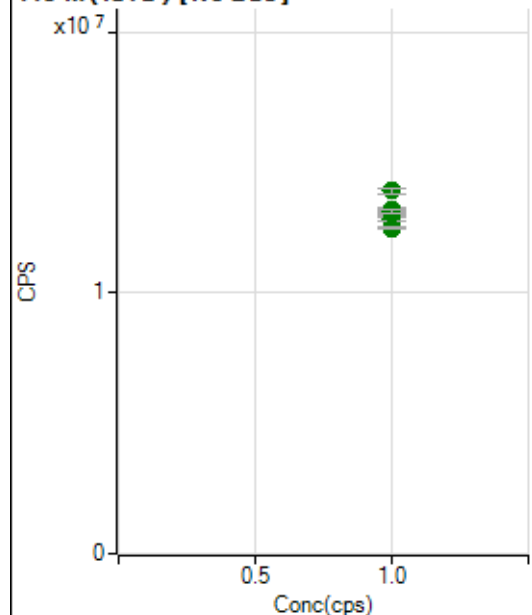
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2952382.49		A	2.5
2	☐	1.000		2914833.77		A	2.0
3	☐	1.000		2896872.35		A	0.7
4	☐	1.000		2905267.70		A	0.4
5	☐	1.000		2861587.63		A	0.3
6	☐	1.000		2963002.87		A	5.2
7	☐	1.000		2913463.26		A	1.8
8	☐	1.000		2923512.11		A	0.6

103 Rh (ISTD) [No Gas]

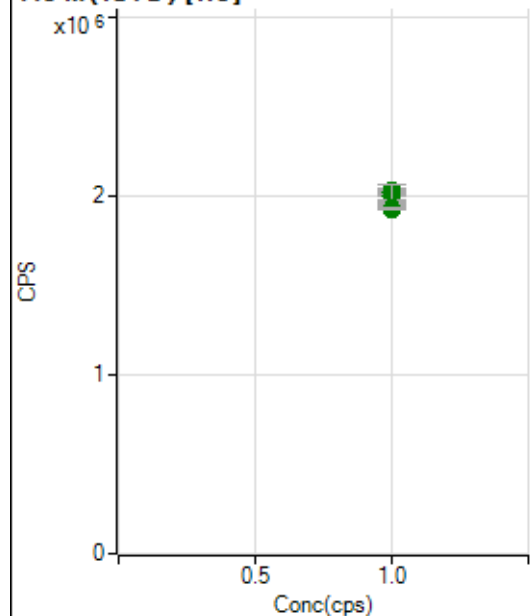
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13144482.67		A	0.9
2	☐	1.000		13353083.55		A	1.0
3	☐	1.000		12952626.77		A	2.4
4	☐	1.000		13016947.69		A	2.5
5	☐	1.000		12882223.99		A	1.8
6	☐	1.000		13375562.10		A	1.6
7	☐	1.000		12702748.38		A	0.7
8	☐	1.000		11704141.93		A	0.6

103 Rh (ISTD) [He]

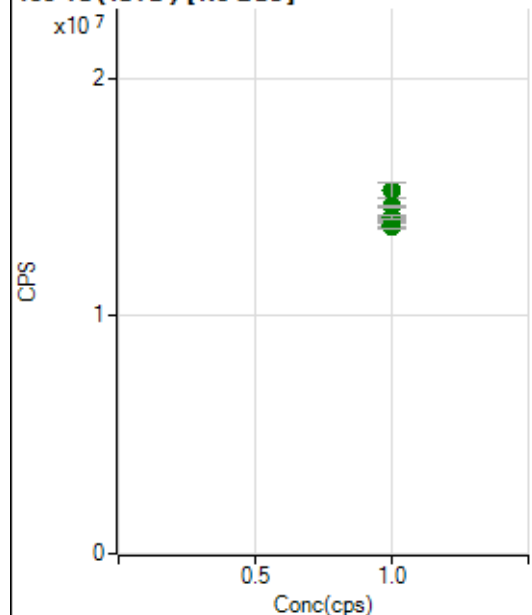
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6138046.99		A	1.1
2	☐	1.000		6099004.01		A	1.3
3	☐	1.000		6105485.95		A	0.7
4	☐	1.000		5942948.94		A	0.5
5	☐	1.000		5852442.14		A	1.3
6	☐	1.000		6076565.47		A	4.6
7	☐	1.000		5817098.18		A	1.3
8	☐	1.000		5426219.50		A	0.6

115 In (ISTD) [No Gas]

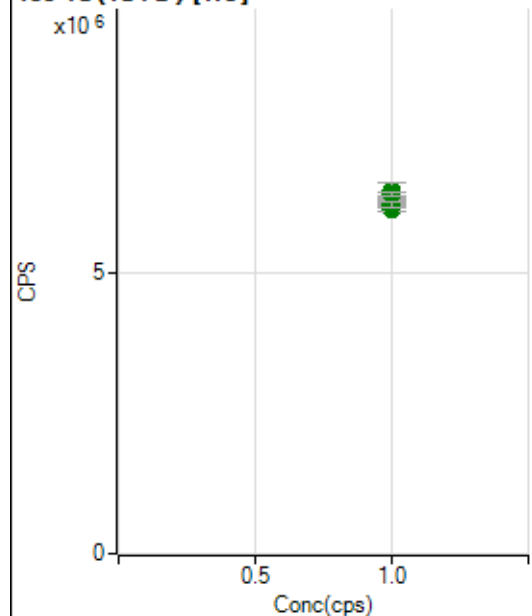
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13148868.41		A	0.9
2	☐	1.000		13033141.15		A	1.4
3	☐	1.000		12832964.58		A	0.8
4	☐	1.000		13199282.03		A	1.4
5	☐	1.000		13082771.54		A	1.6
6	☐	1.000		13918629.34		A	1.6
7	☐	1.000		13110558.15		A	1.3
8	☐	1.000		12501878.91		A	0.5

115 In (ISTD) [He]

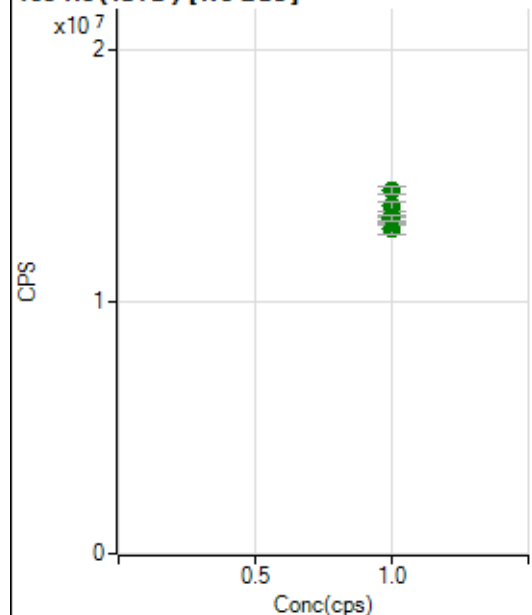
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2028486.89		A	1.2
2	☐	1.000		2018716.39		A	1.7
3	☐	1.000		2030168.54		A	0.8
4	☐	1.000		2002039.57		A	2.1
5	☐	1.000		1955546.03		A	1.1
6	☐	1.000		2020830.01		A	4.2
7	☐	1.000		1938926.02		A	1.8
8	☐	1.000		1930589.21		A	0.4

159 Tb (ISTD) [No Gas]

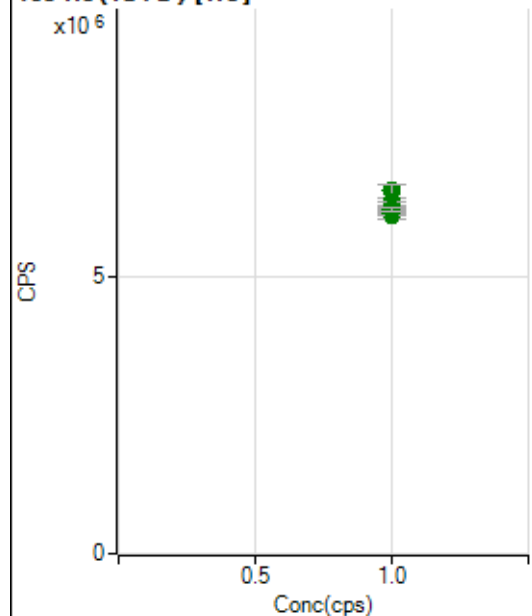
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13850128.13		A	1.0
2	☐	1.000		13853736.74		A	0.9
3	☐	1.000		13795319.52		A	1.6
4	☐	1.000		14049337.57		A	1.2
5	☐	1.000		14084611.18		A	1.0
6	☐	1.000		15267138.25		A	4.1
7	☐	1.000		14623659.09		A	0.5
8	☐	1.000		14170105.76		A	1.1

159 Tb (ISTD) [He]

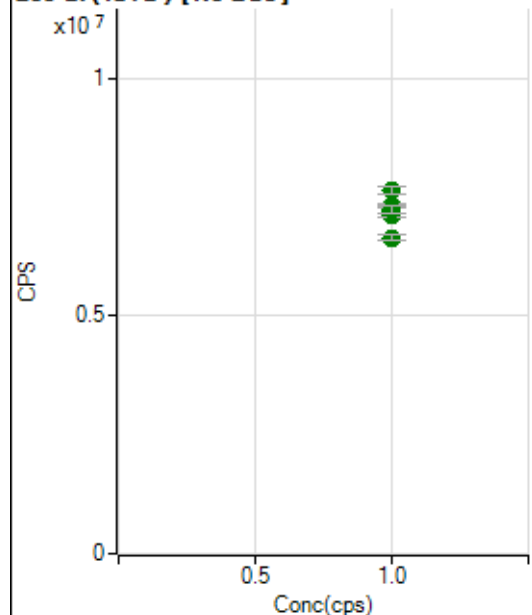
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6132277.48		A	1.7
2	☐	1.000		6258654.84		A	1.9
3	☐	1.000		6304008.73		A	0.7
4	☐	1.000		6226908.52		A	0.4
5	☐	1.000		6235698.03		A	0.8
6	☐	1.000		6459839.28		A	4.7
7	☐	1.000		6399649.28		A	1.3
8	☐	1.000		6212102.69		A	2.1

165 Ho (ISTD) [No Gas]

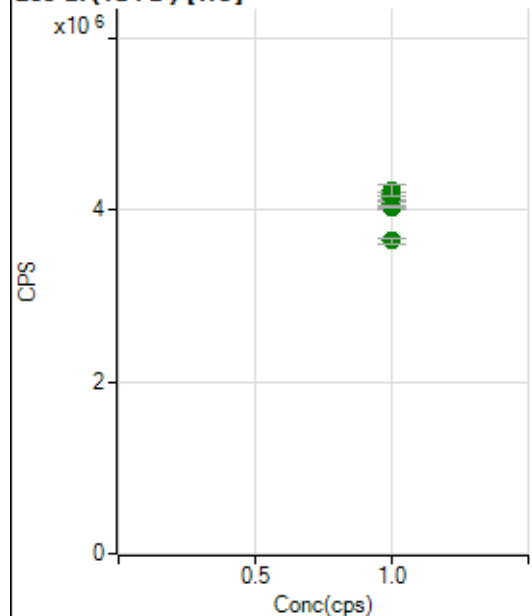
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12878678.67		A	2.9
2	☐	1.000		13137985.71		A	1.3
3	☐	1.000		13137014.97		A	0.9
4	☐	1.000		13303416.53		A	0.9
5	☐	1.000		13269019.65		A	1.7
6	☐	1.000		14419012.65		A	2.2
7	☐	1.000		13800710.90		A	2.3
8	☐	1.000		13342474.35		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6133146.65		A	2.1
2	☐	1.000		6232585.53		A	1.0
3	☐	1.000		6286030.05		A	0.4
4	☐	1.000		6117821.30		A	2.0
5	☐	1.000		6173864.28		A	1.5
6	☐	1.000		6572186.01		A	4.0
7	☐	1.000		6373074.28		A	0.4
8	☐	1.000		6237344.98		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7200234.55		A	1.7
2	☐	1.000		7311143.71		A	1.1
3	☐	1.000		7107026.21		A	1.0
4	☐	1.000		7280582.39		A	0.6
5	☐	1.000		7312635.44		A	1.3
6	☐	1.000		7624847.73		A	2.1
7	☐	1.000		7248262.12		A	2.3
8	☐	1.000		6639695.04		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4193696.29		A	1.0
2	☐	1.000		4147085.39		A	0.9
3	☐	1.000		4153038.20		A	1.1
4	☐	1.000		4065618.20		A	1.2
5	☐	1.000		4027273.00		A	1.3
6	☐	1.000		4225760.15		A	3.1
7	☐	1.000		4037588.62		A	0.4
8	☐	1.000		3648236.20		A	1.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8102921-MS.b
Acq. Date-Time 2021-10-29 11:13:26
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		24670	246700.38			1.203	5.000
24		207511	2075109.15			1.064	5.000
25		28061	280612.25			1.336	5.000
26		32083	320832.84			1.387	5.000
59		51037	510373.20			1.485	5.000
113		19377	193769.73			1.208	5.000
115		60386	603864.26			1.817	5.000
206		20000	199996.23			1.778	5.000
207		16642	166422.52			1.918	5.000
208		41211	412111.51			1.975	5.000
220		1	7.80			11.645	

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

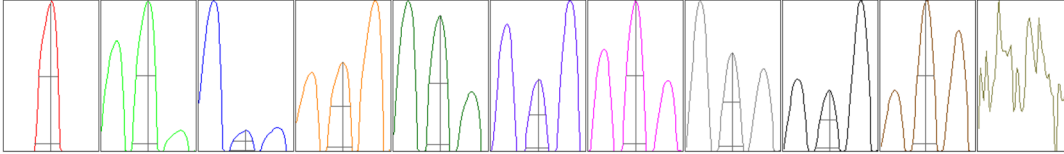
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	24348	25124	24629	24759	24490
24	206607	207530	204317	209845	209256
25	27440	28155	28399	28289	28024
26	31319	32202	32486	32240	32169
59	49706	51266	51611	51349	51254
113	18971	19410	19439	19556	19509
115	58593	60588	60447	61589	60715
206	19416	20099	20022	20385	20077
207	16089	16771	16747	16909	16695
208	39937	41265	41306	42211	41337

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	43884.18	9.00	8.90 - 9.10	
24	354670.80	24.00	23.90 - 24.10	
25	48532.06	25.00	24.90 - 25.10	
26	54914.81	26.00	25.90 - 26.10	
59	93249.63	59.00	58.90 - 59.10	
113	38372.07	113.05	112.90 - 113.10	
115	118614.93	115.05	114.90 - 115.10	
206	38675.42	206.00	205.90 - 206.10	
207	32601.05	207.00	206.90 - 207.10	
208	80548.65	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.778	0.900	
24	0.62	0.789	0.900	
25	0.62	0.786	0.900	
26	0.63	0.789	0.900	
59	0.58	0.737	0.900	
113	0.52	0.729	0.900	
115	0.53	0.733	0.900	
206	0.53	0.778	0.900	
207	0.53	0.758	0.900	
208	0.52	0.766	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.0 V	Deflect	14.8 V
Extract 2	-180.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11088	110882.97			1.584	
89		28736	287363.64			1.442	
205		16879	168792.94			1.113	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11030	11233	11168	11205	10807
89	28445	28768	29025	29231	28214
205	16773	16944	16849	17162	16668

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.0 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-180.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V