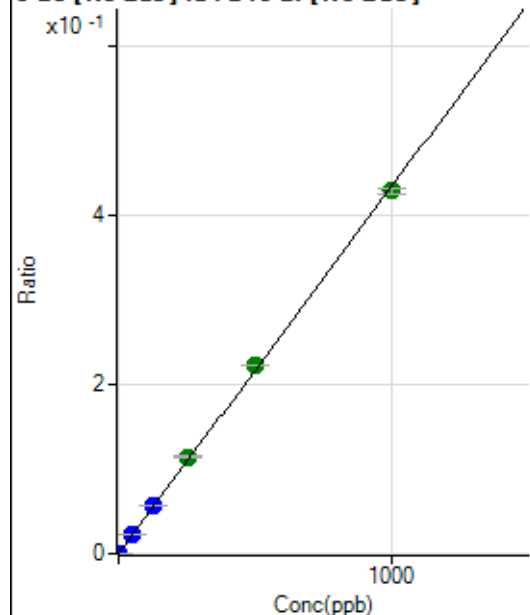


Calibration for 216CCV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072922MS.b\
 Analysis File: P8072922MS.batch.bin
 DA Date-Time: 2022-07-29 19:22:07
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-07-29 07:41:58
2	006CALS.d	S02	2022-07-29 07:48:12
3	007CALS.d	S03	2022-07-29 07:51:18
4	008CALS.d	S04	2022-07-29 07:54:26
5	009CALS.d	S05	2022-07-29 07:57:33
6	010CALS.d	S06	2022-07-29 08:00:41
7	011CALS.d	S07	2022-07-29 08:03:47
8	012CALS.d	S08	2022-07-29 08:06:56

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.32	0.0000	P	26.5
2	☐	1.000	1.099	4848.54	0.0005	P	2.7
3	☐	50.000	52.230	226876.63	0.0226	P	1.9
4	☐	125.000	130.191	555853.77	0.0564	P	2.0
5	☐	250.000	263.875	1091474.32	0.1144	A	1.1
6	☐	500.000	514.464	2065913.72	0.2230	A	0.4
7	☐	1000.000	988.539	3963366.56	0.4284	A	1.5
8	☐			608.69	0.0001	P	4.8

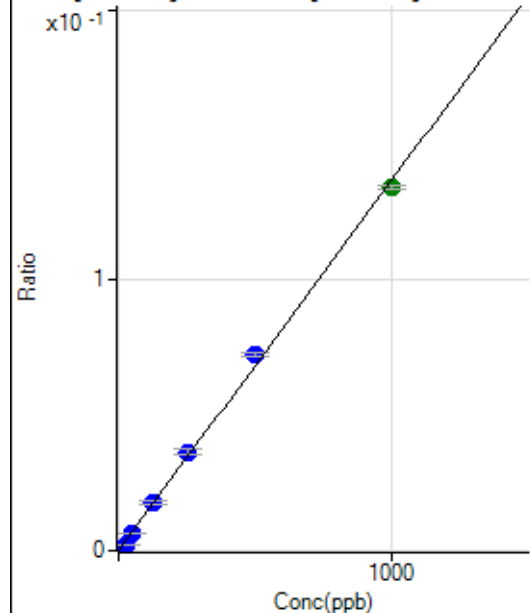
$$y = 4.3335E-004 * x + 1.1432E-005$$

$$R = 0.9997$$

$$DL = 0.021$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	812.53	0.0001	P	1.9
2	☐	25.000	13.007	18507.40	0.0019	P	6.5
3	☐	50.000	46.708	64858.03	0.0065	P	4.7
4	☐	125.000	129.090	174775.05	0.0177	P	4.5
5	☐	250.000	266.479	348697.61	0.0365	P	5.7
6	☐	500.000	531.558	674714.08	0.0728	P	2.1
7	☐	1000.000	980.054	1241903.12	0.1342	A	1.1
8	☐			102532.32	0.0112	P	10.7

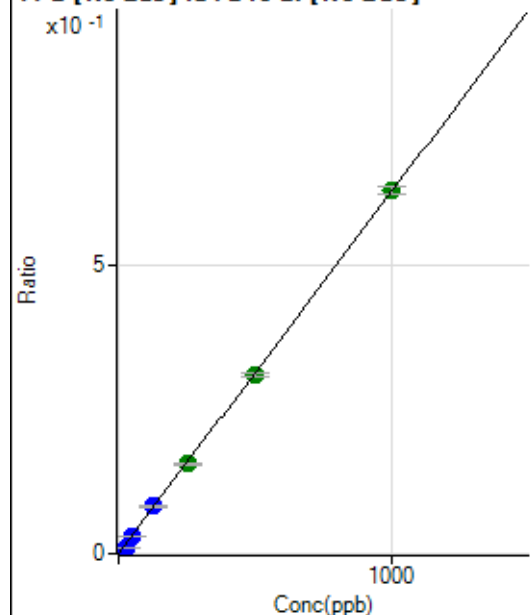
$$y = 1.3683E-004 * x + 8.1845E-005$$

$$R = 0.9989$$

$$DL = 0.03358$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3770.42	0.0004	P	2.1
2	☐	25.000	13.518	88135.25	0.0089	P	5.4
3	☐	50.000	47.600	303152.56	0.0303	P	3.9
4	☐	125.000	130.275	809130.46	0.0821	P	3.8
5	☐	250.000	248.674	1493061.63	0.1565	A	2.5
6	☐	500.000	495.766	2887323.19	0.3115	A	2.4
7	☐	1000.000	1002.197	5826002.40	0.6294	A	2.2
8	☐			476185.06	0.0520	P	11.0

$$y = 6.2765E-004 * x + 3.7985E-004$$

$$R = 0.9999$$

$$DL = 0.03802$$

Weight: <None>

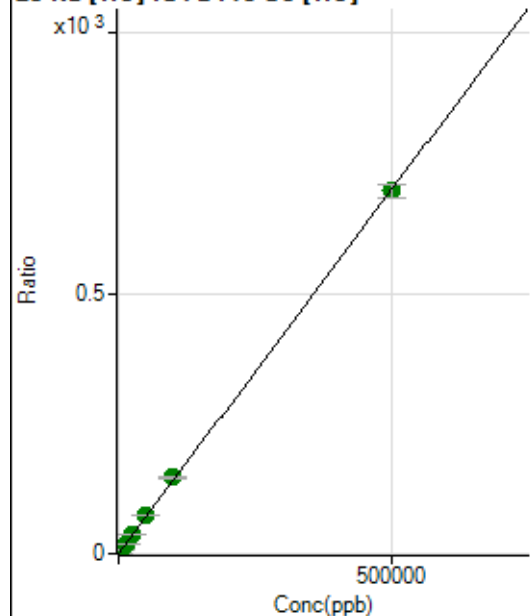
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			6120735.56		A	0.9
2	☐			6008485.25		A	1.4
3	☐			6218946.15		A	0.3
4	☐			6858503.63		A	2.0
5	☐			7067202.24		A	2.1
6	☐			7801296.53		A	2.0
7	☐			8241035.60		A	2.2
8	☐			8060319.11		A	3.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70963.07		P	1.8
2	☐			69475.59		P	0.5
3	☐			72789.19		P	0.7
4	☐			81398.16		P	1.4
5	☐			87225.92		P	1.5
6	☐			97067.03		P	0.8
7	☐			102616.12		P	2.0
8	☐			107855.82		P	0.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22551.23	0.0532	P	2.4
2	☐	500.000	515.300	333117.95	0.7730	P	1.7
3	☐	5000.000	5511.050	3284374.92	7.7509	A	1.9
4	☐	12500.000	13264.962	7871255.12	18.5813	A	2.6
5	☐	25000.000	26797.925	15816722.92	37.4837	A	2.3
6	☐	50000.000	53657.355	31375660.07	75.0000	A	0.9
7	☐	100000.00	104885.90	62458056.26	146.5543	A	1.7
8	☐	500000.00	498542.93	319210187.6	696.4014	A	3.7

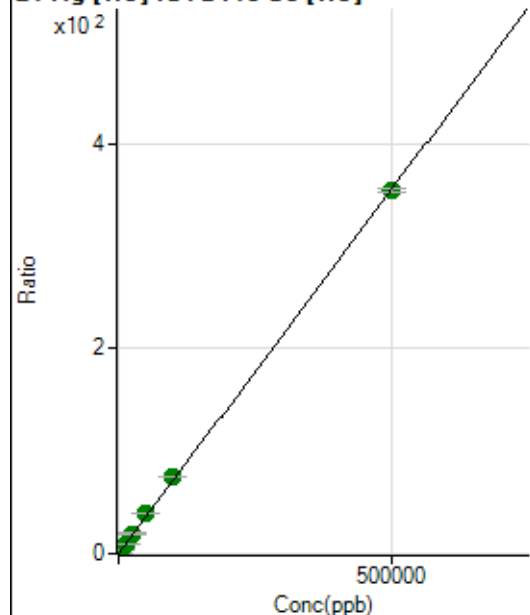
$$y = 0.0014 * x + 0.0532$$

$$R = 0.9999$$

$$DL = 2.726$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	277.79	0.0007	P	13.4
2	☐	500.000	553.142	169584.09	0.3935	P	3.1
3	☐	5000.000	5749.738	1730336.04	4.0844	A	1.7
4	☐	12500.000	13810.756	4155715.41	9.8097	A	1.8
5	☐	25000.000	27438.003	8223922.84	19.4884	A	3.0
6	☐	50000.000	54895.921	16311667.90	38.9902	A	1.7
7	☐	100000.00	105955.11	32070852.11	75.2548	A	1.6
8	☐	500000.00	498157.16	162226645.2	353.8144	A	1.1

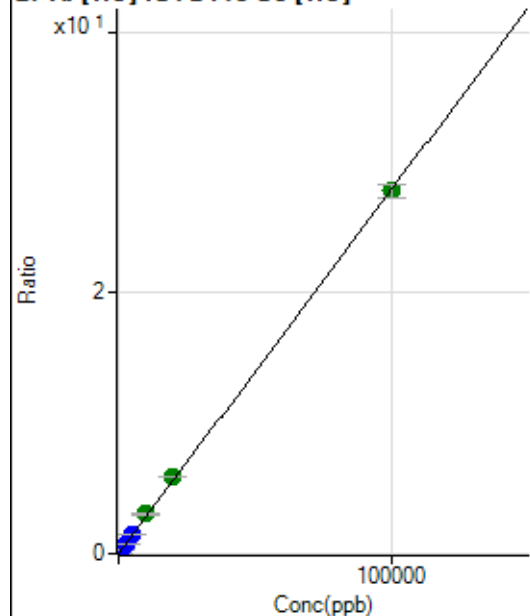
$$y = 7.1025E-004 * x + 6.5535E-004$$

$$R = 0.9999$$

$$DL = 0.3709$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	101.66	0.0002	P	2.6
2	☐	20.000	20.751	2601.17	0.0060	P	3.9
3	☐	1000.000	1038.852	123037.38	0.2904	P	1.6
4	☐	2500.000	2577.067	305029.77	0.7201	P	2.6
5	☐	5000.000	5216.557	614902.31	1.4573	P	1.4
6	☐	10000.000	10995.879	1285088.88	3.0716	A	3.4
7	☐	20000.000	21227.062	2527182.36	5.9294	A	0.9
8	☐	100000.00	99641.857	12758063.60	27.8322	A	3.4

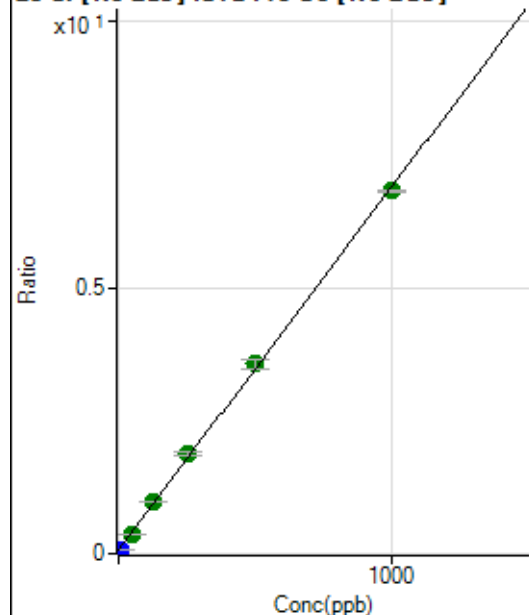
$$y = 2.7932E-004 * x + 2.3982E-004$$

$$R = 0.9999$$

$$DL = 0.06684$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	774357.25	0.0663	P	2.1
2	☐	10.000	1.302	885322.48	0.0752	P	1.2
3	☐	50.000	42.365	4313528.83	0.3555	A	1.1
4	☐	125.000	133.078	10997958.84	0.9747	A	3.1
5	☐	250.000	264.368	21671125.83	1.8709	A	3.6
6	☐	500.000	512.217	40524869.66	3.5628	A	4.9
7	☐	1000.000	989.758	79700965.67	6.8225	A	0.6
8	☐			2149641.09	0.1826	A	3.4

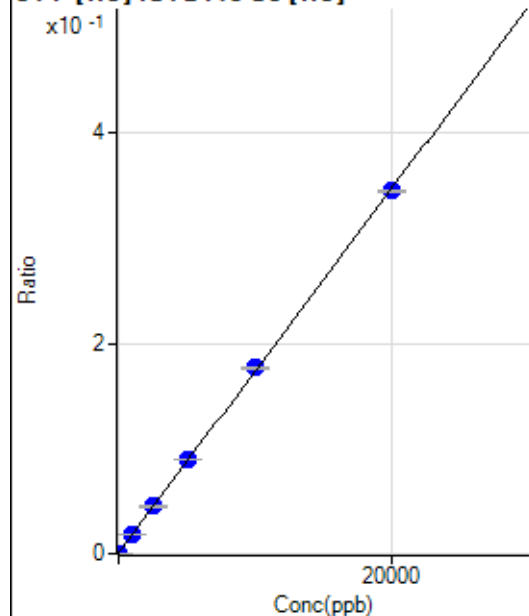
$$y = 0.0068 * x + 0.0663$$

$$R = 0.9996$$

$$DL = 0.6049$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-7.742	241.68	0.0006	P	15.3
2	☐	0.000	7.742	361.13	0.0008	P	6.3
3	☐	1000.000	999.753	7641.11	0.0180	P	3.6
4	☐	2500.000	2563.144	19104.69	0.0451	P	3.1
5	☐	5000.000	5102.905	37582.86	0.0891	P	0.5
6	☐	10000.000	10154.447	73869.75	0.1766	P	1.2
7	☐	20000.000	19889.170	147109.72	0.3452	P	0.7
8	☐			355.57	0.0008	P	11.1

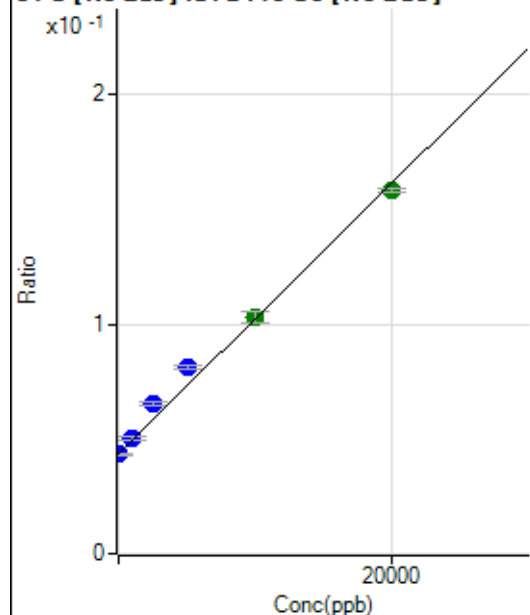
$$y = 1.7320E-005 * x + 7.0399E-004$$

$$R = 0.9999$$

$$DL = 12.12$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-14.332	505206.99	0.0433	P	1.0
2	☐	0.000	14.332	511298.78	0.0434	P	1.3
3	☐	1000.000	1157.017	608986.42	0.0502	P	2.1
4	☐	2500.000	3742.300	738813.74	0.0655	P	3.1
5	☐	5000.000	6411.646	941392.19	0.0813	P	1.6
6	☐	10000.000	10127.517	1174247.14	0.1032	A	4.5
7	☐	20000.000	19420.191	1847813.00	0.1582	A	1.2
8	☐			426405.30	0.0362	P	2.8

$$y = 5.9121\text{E-}006 * x + 0.0434$$

R = 0.9956

DL = 248.1

Weight: <None>

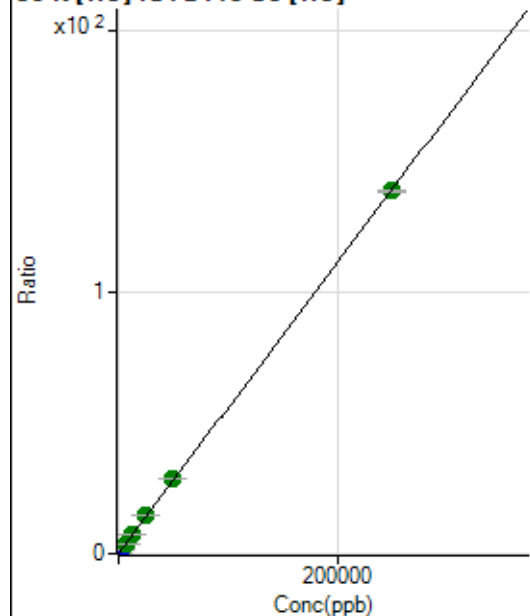
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			456570.50		P	1.8
2	☐			406977.74		P	0.7
3	☐			393631.17		P	1.0
4	☐			383412.68		P	0.5
5	☐			374267.27		P	0.5
6	☐			369338.56		P	1.7
7	☐			369402.78		P	0.6
8	☐			355758.47		P	0.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3731.13		P	2.7
2	☐			3272.69		P	9.1
3	☐			3214.34		P	6.9
4	☐			3253.23		P	3.1
5	☐			2933.71		P	3.0
6	☐			3055.96		P	5.8
7	☐			3267.12		P	4.7
8	☐			3078.19		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25567.67	0.0603	P	5.7
2	☐	500.000	485.788	142486.44	0.3306	P	2.7
3	☐	2500.000	2488.752	612272.47	1.4451	P	1.8
4	☐	6250.000	6495.132	1556470.76	3.6744	A	3.1
5	☐	12500.000	12903.028	3054515.02	7.2399	A	2.3
6	☐	25000.000	25867.354	6046757.30	14.4535	A	0.9
7	☐	50000.000	51474.419	12233442.72	28.7018	A	1.5
8	☐	250000.00	249592.24	63708779.20	138.9387	A	0.6

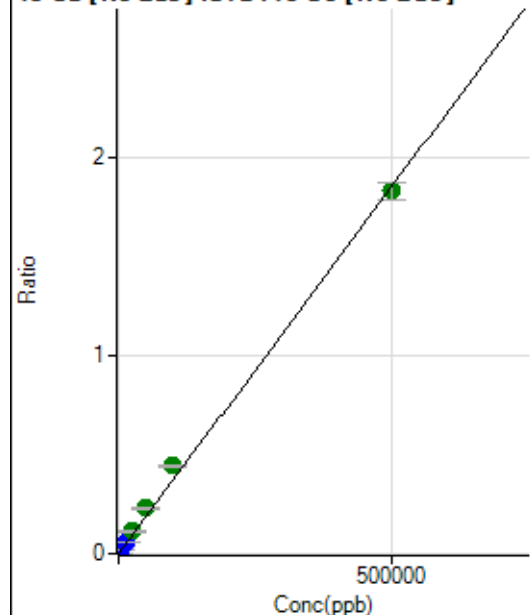
$$y = 5.5642\text{E-}004 * x + 0.0603$$

$$R = 1.0000$$

$$DL = 18.66$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	350.79	0.0000	P	6.4
2	☐	500.000	493.707	21905.96	0.0019	P	0.4
3	☐	5000.000	5753.816	259286.86	0.0214	P	0.7
4	☐	12500.000	15147.412	634012.78	0.0562	P	4.1
5	☐	25000.000	30488.541	1310133.02	0.1131	A	2.8
6	☐	50000.000	61699.029	2604034.76	0.2288	A	3.6
7	☐	100000.00	119493.03	5177366.22	0.4432	A	1.0
8	☐	500000.00	494583.34	21565584.96	1.8343	A	4.9

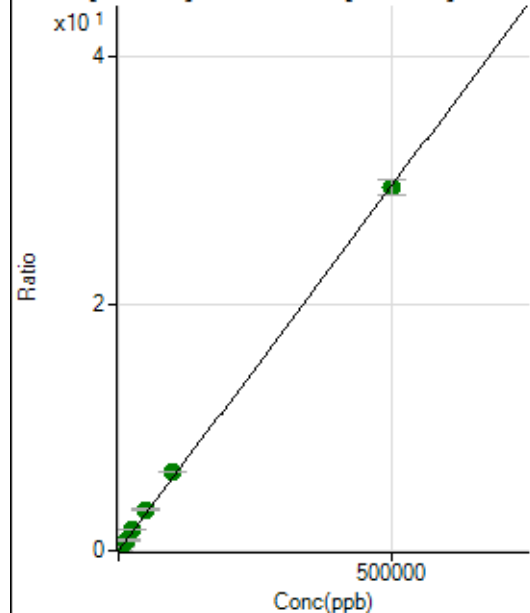
$$y = 3.7086\text{E-}006 * x + 3.0053\text{E-}005$$

$$R = 0.9990$$

$$DL = 1.544$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23359.86	0.0020	P	1.7
2	☐	500.000	500.133	371587.20	0.0316	P	1.2
3	☐	5000.000	5479.907	3955218.49	0.3260	A	1.9
4	☐	12500.000	14276.751	9540093.03	0.8461	A	5.8
5	☐	25000.000	28051.751	19238794.97	1.6605	A	1.3
6	☐	50000.000	55938.713	37653038.02	3.3092	A	3.5
7	☐	100000.00	108862.59	75211487.85	6.4383	A	0.3
8	☐	500000.00	497431.80	345849086.0	29.4115	A	4.4

$$y = 5.9123\text{E-}005 * x + 0.0020$$

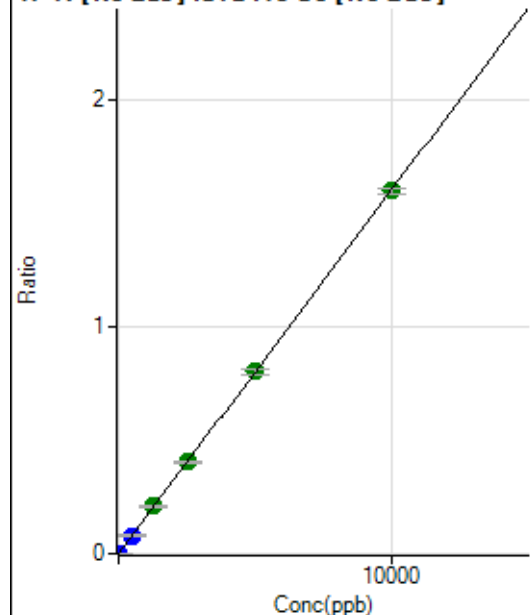
$$R = 0.9998$$

$$DL = 1.763$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	388.90	0.0000	P	5.3
2	☐	5.000	5.337	10440.25	0.0009	P	1.3
3	☐	500.000	498.867	968391.42	0.0798	P	1.7
4	☐	1250.000	1312.700	2368570.97	0.2100	A	4.1
5	☐	2500.000	2521.790	4672643.38	0.4033	A	1.6
6	☐	5000.000	5020.758	9137465.05	0.8030	A	3.1
7	☐	10000.000	9976.392	18639800.07	1.5956	A	1.8
8	☐			2983.73	0.0003	P	6.5

$$y = 1.5993\text{E-}004 * x + 3.3307\text{E-}005$$

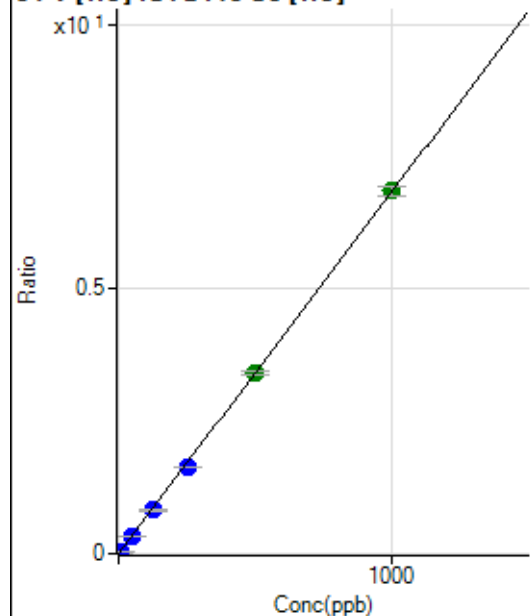
$$R = 1.0000$$

$$DL = 0.03304$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	13.8
2	☐	5.000	4.728	13927.99	0.0323	P	2.8
3	☐	50.000	47.051	136035.85	0.3211	P	2.1
4	☐	125.000	120.512	348389.79	0.8224	P	1.6
5	☐	250.000	239.448	689430.92	1.6340	P	1.6
6	☐	500.000	499.393	1425741.34	3.4077	A	2.7
7	☐	1000.000	1003.651	2918888.92	6.8486	A	3.0
8	☐			594.47	0.0013	P	9.4

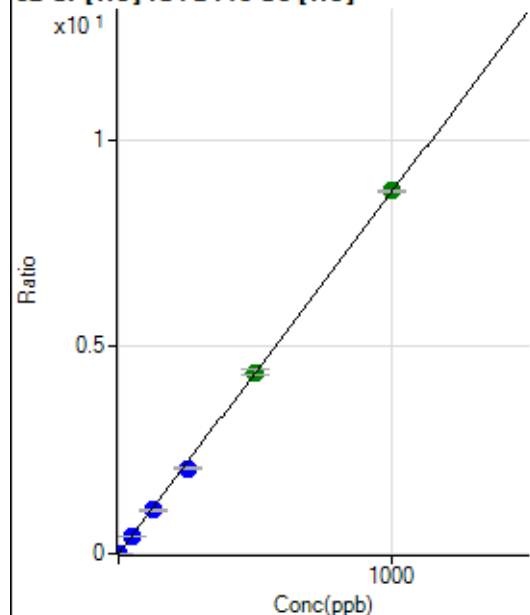
$$y = 0.0068 * x + 5.5023\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.003331$$

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	1074.50	0.0025	P	7.9
2	☐	2.000	1.837	7995.62	0.0186	P	1.3
3	☐	50.000	46.827	174081.00	0.4109	P	1.4
4	☐	125.000	119.915	444072.51	1.0483	P	2.2
5	☐	250.000	235.843	868813.25	2.0592	P	0.7
6	☐	500.000	501.259	1829883.06	4.3738	A	2.7
7	☐	1000.000	1003.704	3731815.32	8.7555	A	0.6
8	☐			9130.77	0.0199	P	0.6

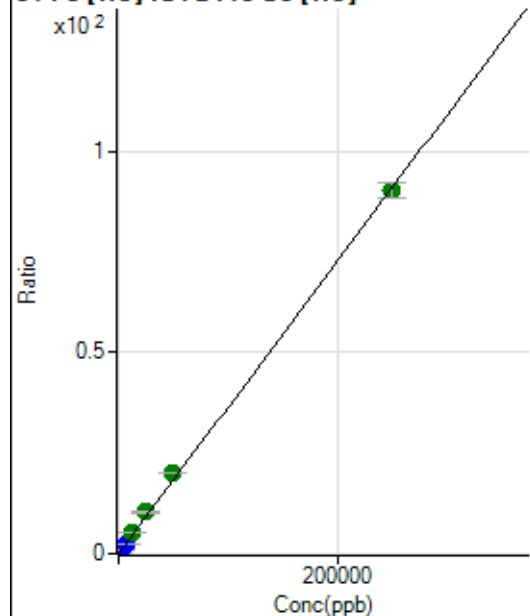
$$y = 0.0087 * x + 0.0025$$

$$R = 0.9999$$

$$DL = 0.06849$$

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	1316.75	0.0031	P	5.4
2	☐	50.000	53.551	9710.86	0.0225	P	0.2
3	☐	2500.000	2693.381	415211.06	0.9801	P	1.6
4	☐	6250.000	6719.137	1033857.76	2.4405	P	1.8
5	☐	12500.000	14145.157	2166216.96	5.1343	A	1.3
6	☐	25000.000	28459.391	4320429.35	10.3268	A	2.5
7	☐	50000.000	55500.369	8582051.93	20.1359	A	1.2
8	☐	250000.00	248458.06	41310431.02	90.1314	A	4.4

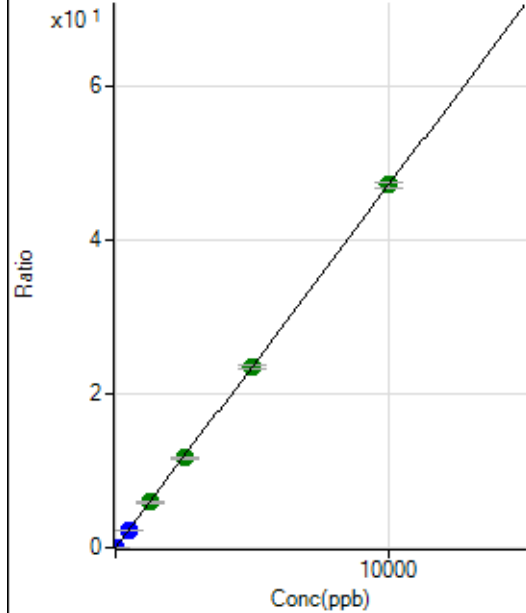
$$y = 3.6275E-004 * x + 0.0031$$

$$R = 0.9997$$

$$DL = 1.397$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	137.78	0.0003	P	25.8
2	☐	1.000	0.989	2144.63	0.0050	P	7.5
3	☐	500.000	476.934	950578.80	2.2441	P	2.2
4	☐	1250.000	1255.022	2501301.66	5.9047	A	2.9
5	☐	2500.000	2469.054	4902265.38	11.6163	A	3.8
6	☐	5000.000	4991.692	9825211.31	23.4844	A	2.2
7	☐	10000.000	10012.416	20073829.42	47.1050	A	1.6
8	☐			10932.06	0.0238	P	2.7

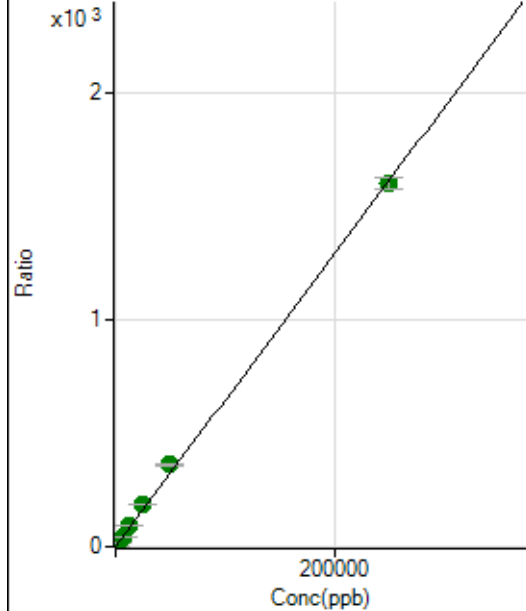
$$y = 0.0047 * x + 3.2540E-004$$

$$R = 1.0000$$

$$DL = 0.0536$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7211.21	0.0170	P	2.1
2	☐	50.000	53.378	155339.78	0.3604	P	1.8
3	☐	2500.000	2836.485	7737609.66	18.2669	A	2.0
4	☐	6250.000	7036.509	19186833.99	45.2899	A	1.6
5	☐	12500.000	14051.169	38157842.98	90.4221	A	3.2
6	☐	25000.000	28887.338	77770572.11	185.8780	A	3.7
7	☐	50000.000	56024.066	153616786.7	360.4755	A	1.8
8	☐	250000.00	248305.86	732348046.0	1,597.615	A	3.3

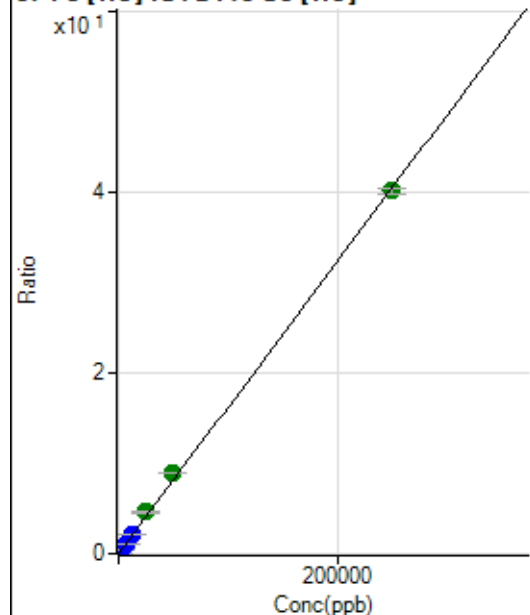
$$y = 0.0064 * x + 0.0170$$

$$R = 0.9996$$

$$DL = 0.1698$$

Weight: <None>

Min Conc: 0

⁵⁷Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	214.82	0.0005	P	0.9
2	☐	50.000	51.884	3833.91	0.0089	P	2.8
3	☐	2500.000	2653.283	181917.36	0.4295	P	2.7
4	☐	6250.000	6746.419	462299.94	1.0913	P	2.9
5	☐	12500.000	13370.594	912334.10	2.1624	P	0.5
6	☐	25000.000	28506.787	1928625.38	4.6098	A	2.1
7	☐	50000.000	55371.567	3816126.07	8.9536	A	0.3
8	☐	250000.00	248517.53	18423308.98	40.1835	A	1.6

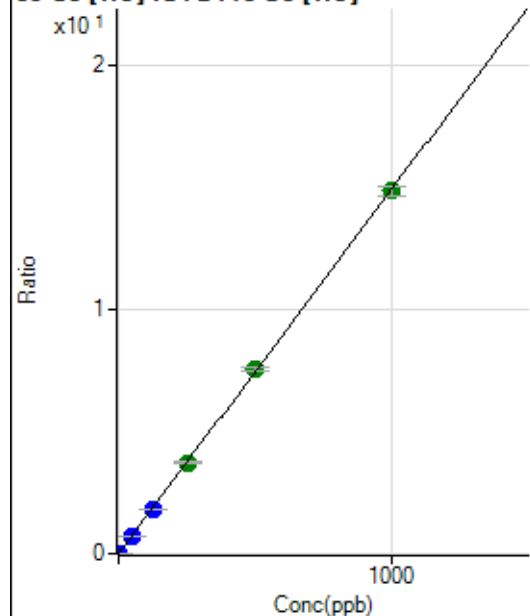
$$y = 1.6169\text{E-}004 * x + 5.0681\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.08426$$

Weight: <None>

Min Conc: 0

⁵⁹Co [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0002	P	7.5
2	☐	1.000	0.963	6250.31	0.0145	P	3.0
3	☐	50.000	48.738	307501.15	0.7260	P	2.0
4	☐	125.000	122.338	771903.45	1.8220	P	0.5
5	☐	250.000	250.608	1574438.97	3.7321	A	1.1
6	☐	500.000	508.102	3165727.87	7.5667	A	2.3
7	☐	1000.000	996.193	6323058.79	14.8352	A	2.3
8	☐			9077.42	0.0198	P	3.5

$$y = 0.0149 * x + 1.7044\text{E-}004$$

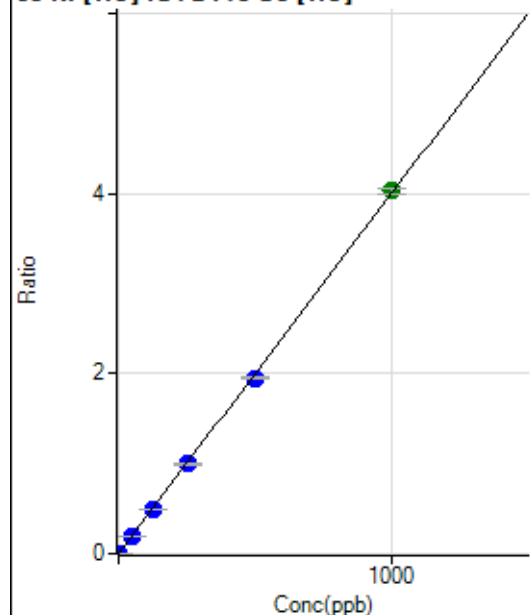
$$R = 0.9999$$

$$DL = 0.00257$$

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	121.11	0.0003	P	22.9
2	☐	1.000	1.007	1860.14	0.0043	P	4.4
3	☐	50.000	49.239	83633.89	0.1974	P	1.8
4	☐	125.000	122.887	208538.05	0.4923	P	2.5
5	☐	250.000	248.144	419267.49	0.9938	P	0.4
6	☐	500.000	487.669	816928.21	1.9527	P	0.5
7	☐	1000.000	1006.932	1718046.55	4.0316	A	1.9
8	☐			4275.13	0.0093	P	4.3

$$y = 0.0040 * x + 2.8600E-004$$

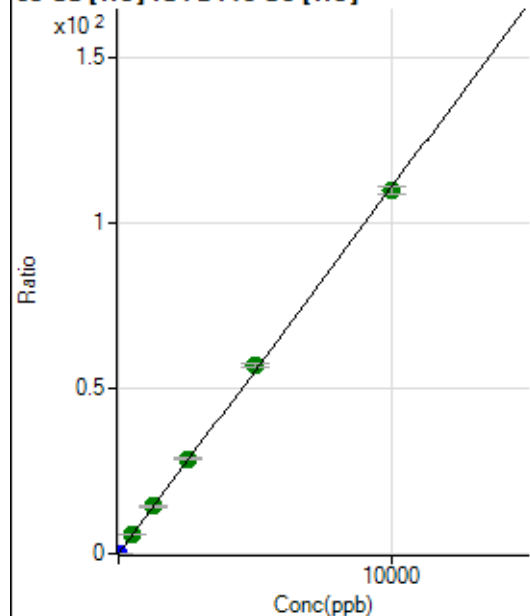
$$R = 0.9999$$

$$DL = 0.04899$$

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	2922.55	0.0069	P	1.0
2	☐	2.000	2.035	12690.21	0.0294	P	1.2
3	☐	500.000	527.163	2476285.40	5.8490	A	4.4
4	☐	1250.000	1299.954	6105266.23	14.4131	A	3.7
5	☐	2500.000	2574.335	12040691.76	28.5359	A	2.1
6	☐	5000.000	5148.154	23870102.98	57.0592	A	1.3
7	☐	10000.000	9899.737	46765537.08	109.7167	A	2.1
8	☐			12165.33	0.0265	P	7.4

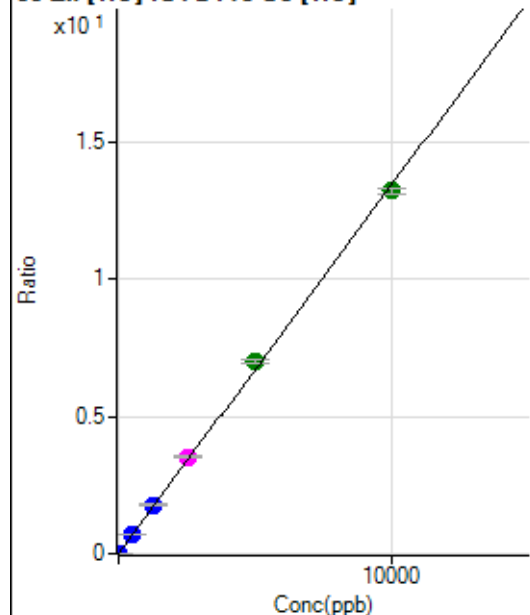
$$y = 0.0111 * x + 0.0069$$

$$R = 0.9998$$

$$DL = 0.01942$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	375.57	0.0009	P	8.9
2	☐	2.000	2.292	1707.90	0.0040	P	4.2
3	☐	500.000	531.704	302637.86	0.7146	P	3.3
4	☐	1250.000	1313.259	747159.79	1.7638	P	3.0
5	☐	2500.000	2619.045	1483865.41	3.5167	M	1.6
6	☐	5000.000	5237.187	2941617.35	7.0313	A	2.2
7	☐	10000.000	9842.153	5630777.83	13.2131	A	1.7
8	☐			4827.53	0.0105	P	3.6

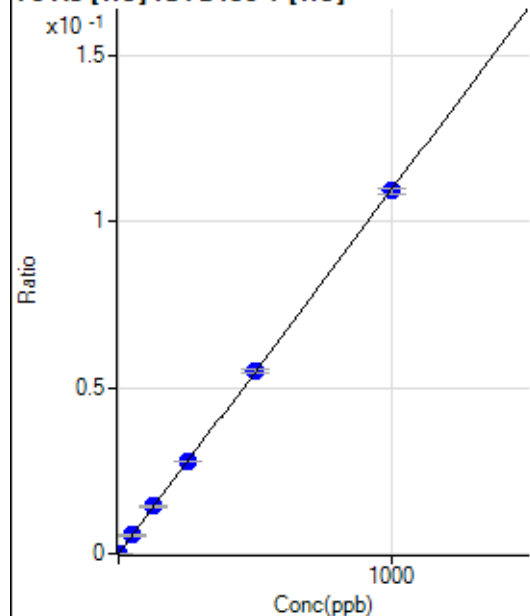
$$y = 0.0013 * x + 8.8640E-004$$

$$R = 0.9995$$

$$DL = 0.1756$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.33	0.0000	P	46.4
2	☐	1.000	1.099	366.71	0.0001	P	8.4
3	☐	50.000	50.377	16327.73	0.0055	P	3.6
4	☐	125.000	129.547	40340.00	0.0142	P	1.3
5	☐	250.000	253.523	80868.54	0.0278	P	1.2
6	☐	500.000	502.571	159995.71	0.0551	P	2.3
7	☐	1000.000	997.247	320492.24	0.1092	P	1.4
8	☐			201.02	0.0001	P	5.7

$$y = 1.0953E-004 * x + 4.2818E-006$$

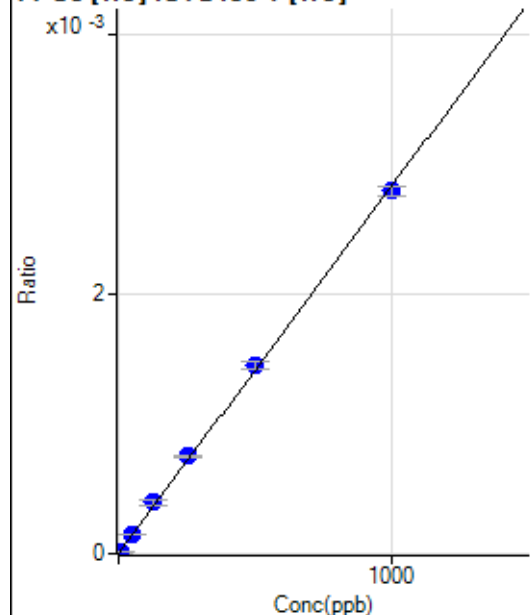
$$R = 1.0000$$

$$DL = 0.05442$$

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	4.44	0.0000	P	112.
2	☐	5.000	5.351	48.89	0.0000	P	26.1
3	☐	50.000	52.478	443.34	0.0001	P	4.2
4	☐	125.000	139.703	1124.50	0.0004	P	10.9
5	☐	250.000	265.211	2185.75	0.0008	P	1.8
6	☐	500.000	512.823	4214.01	0.0015	P	3.7
7	☐	1000.000	987.822	8191.36	0.0028	P	2.5
8	☐			4.44	0.0000	P	115.

$$y = 2.8247E-006 * x + 1.5092E-006$$

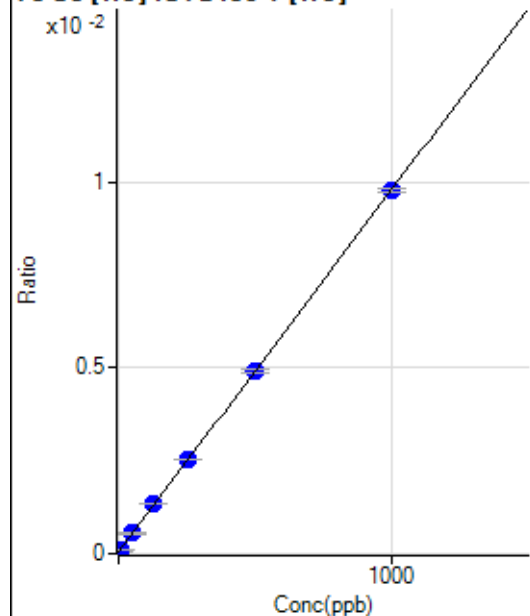
$$R = 0.9997$$

$$DL = 1.802$$

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	123.34	0.0000	P	3.5
2	☐	5.000	4.734	261.36	0.0001	P	2.9
3	☐	50.000	52.287	1635.26	0.0006	P	4.2
4	☐	125.000	134.312	3845.92	0.0014	P	2.1
5	☐	250.000	256.914	7424.04	0.0025	P	0.3
6	☐	500.000	500.145	14309.69	0.0049	P	1.8
7	☐	1000.000	996.922	28669.24	0.0098	P	1.0
8	☐			149.02	0.0000	P	7.1

$$y = 9.7586E-006 * x + 4.2635E-005$$

$$R = 0.9999$$

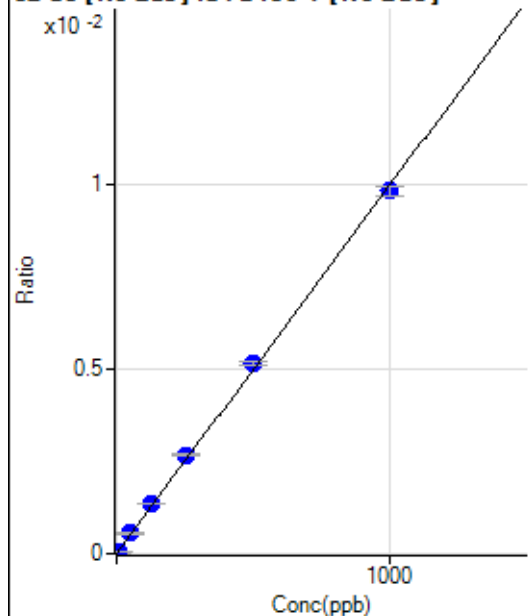
$$DL = 0.4602$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71511.84		P	4.6
2	☐			73137.31		P	3.6
3	☐			69954.27		P	3.5
4	☐			68299.90		P	2.9
5	☐			71986.86		P	0.8
6	☐			72809.64		P	1.1
7	☐			74140.22		P	2.0
8	☐			76010.99		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.58	0.0000	P	99.5
2	☐	5.000	5.698	1438.37	0.0001	P	3.3
3	☐	50.000	55.190	13525.66	0.0006	P	2.0
4	☐	125.000	135.344	32722.33	0.0013	P	3.3
5	☐	250.000	268.700	64387.84	0.0027	P	1.5
6	☐	500.000	516.989	121222.09	0.0051	P	2.3
7	☐	1000.000	985.274	240774.37	0.0098	P	2.3
8	☐			395.83	0.0000	P	34.0

$$y = 9.9544E-006 * x + 1.8505E-006$$

$$R = 0.9996$$

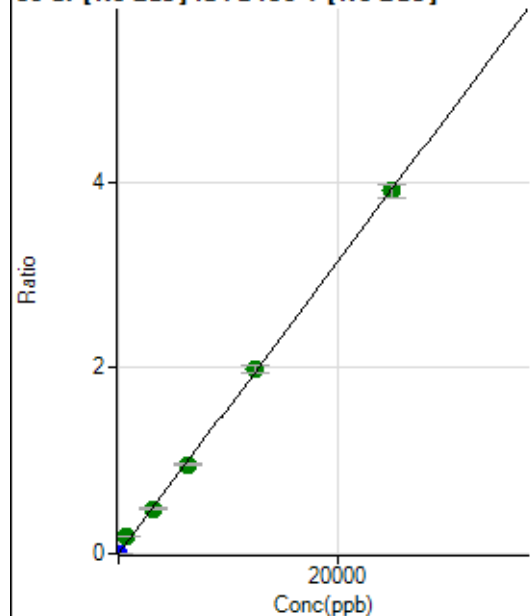
$$DL = 0.5551$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1268.65		P	4.1
2	☐			1304.48		P	1.8
3	☐			1289.90		P	0.6
4	☐			1304.48		P	1.8
5	☐			1307.82		P	4.3
6	☐			1315.73		P	3.6
7	☐			1365.73		P	1.6
8	☐			1379.07		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2066.89	0.0001	P	4.7
2	☐	1.000	1.019	6034.81	0.0002	P	5.7
3	☐	625.000	1235.142	4753670.20	0.1937	A	2.1
4	☐	3125.000	3092.207	11758122.05	0.4848	A	3.7
5	☐	6250.000	6124.801	23100303.47	0.9602	A	1.1
6	☐	12500.000	12675.698	46769466.32	1.9872	A	4.5
7	☐	25000.000	24932.296	95920145.20	3.9086	A	3.9
8	☐			32349.37	0.0013	P	1.4

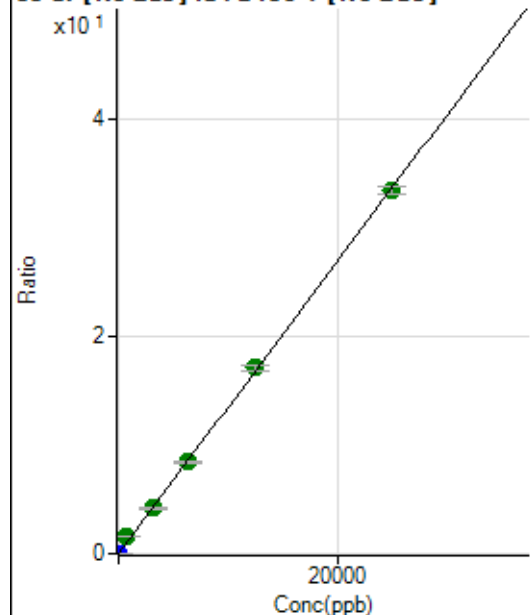
$$y = 1.5677E-004 * x + 8.5831E-005$$

$$R = 0.9996$$

$$DL = 0.07743$$

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	458.35	0.0000	P	13.9
2	☐	1.000	0.967	32455.36	0.0013	P	1.2
3	☐	625.000	1216.230	40194808.54	1.6377	A	0.4
4	☐	3125.000	3139.064	102517396.0	4.2269	A	3.8
5	☐	6250.000	6288.880	203695261.5	8.4683	A	2.7
6	☐	12500.000	12750.380	404178561.8	17.1691	A	3.4
7	☐	25000.000	24848.551	821338618.3	33.4600	A	2.0
8	☐			261761.17	0.0104	P	0.9

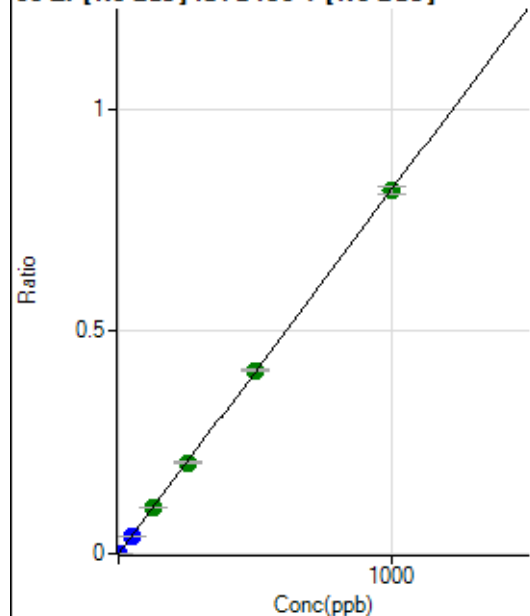
$$y = 0.0013 * x + 1.9036E-005$$

$$R = 0.9997$$

$$DL = 0.005884$$

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	1055.62	0.0000	P	8.2
2	☐	1.000	0.962	20409.86	0.0008	P	1.7
3	☐	50.000	48.628	977379.52	0.0398	P	2.0
4	☐	125.000	126.884	2521309.82	0.1039	A	0.2
5	☐	250.000	251.048	4942110.05	0.2055	A	2.8
6	☐	500.000	504.373	9721991.36	0.4127	A	0.8
7	☐	1000.000	997.385	20032577.70	0.8161	A	2.2
8	☐			10865.84	0.0004	P	7.6

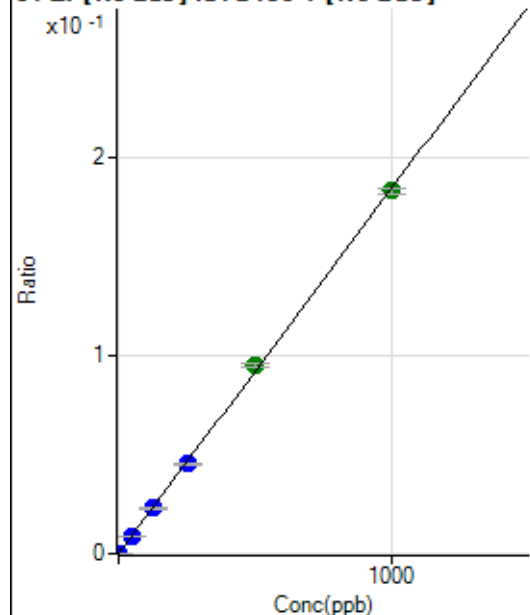
$$y = 8.1823E-004 * x + 4.3842E-005$$

$$R = 1.0000$$

$$DL = 0.01318$$

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	161.12	0.0000	P	16.9
2	☐	1.000	0.934	4400.81	0.0002	P	1.4
3	☐	50.000	48.057	218018.04	0.0089	P	2.2
4	☐	125.000	124.021	555698.78	0.0229	P	4.5
5	☐	250.000	245.127	1089522.53	0.0453	P	1.5
6	☐	500.000	515.610	2243507.99	0.0953	A	1.7
7	☐	1000.000	993.633	4506301.88	0.1836	A	1.9
8	☐			2355.82	0.0001	P	11.9

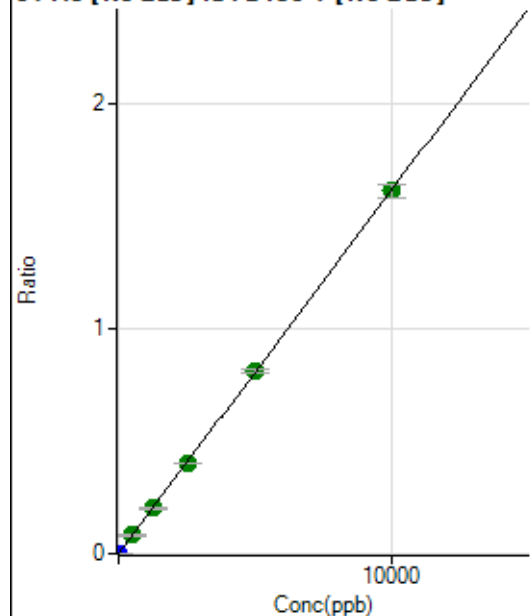
$$y = 1.8474E-004 * x + 6.6925E-006$$

$$R = 0.9998$$

$$DL = 0.01832$$

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	291.68	0.0000	P	12.4
2	☐	5.000	5.640	22716.34	0.0009	P	1.0
3	☐	500.000	502.753	1996866.17	0.0814	A	0.9
4	☐	1250.000	1252.710	4917851.06	0.2027	A	2.9
5	☐	2500.000	2492.590	9704690.93	0.4034	A	0.9
6	☐	5000.000	5037.937	19202903.55	0.8153	A	1.7
7	☐	10000.000	9982.407	39645819.99	1.6155	A	3.4
8	☐			11838.72	0.0005	P	3.5

$$y = 1.6183E-004 * x + 1.2112E-005$$

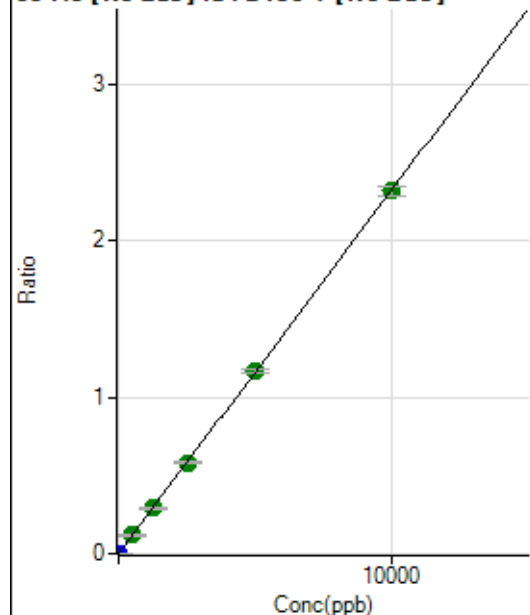
$$R = 1.0000$$

$$DL = 0.02785$$

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	86.11	0.0000	P	14.9
2	☐	5.000	4.971	28460.60	0.0012	P	2.2
3	☐	500.000	506.758	2890376.63	0.1178	A	2.9
4	☐	1250.000	1245.729	7024347.03	0.2896	A	2.7
5	☐	2500.000	2509.555	14032014.03	0.5833	A	1.9
6	☐	5000.000	5025.432	27514323.71	1.1681	A	2.4
7	☐	10000.000	9985.091	56966763.78	2.3209	A	2.5
8	☐			11649.79	0.0005	P	5.5

$$y = 2.3244\text{E-}004 * x + 3.5766\text{E-}006$$

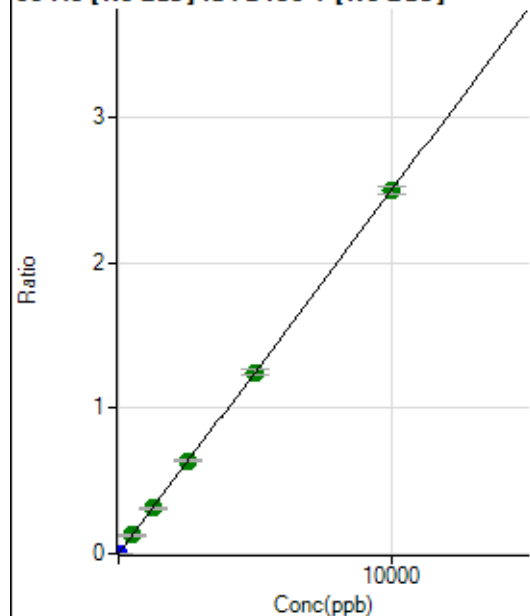
$$R = 1.0000$$

$$DL = 0.006899$$

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	513.91	0.0000	P	6.3
2	☐	5.000	5.110	31915.44	0.0013	P	2.4
3	☐	500.000	507.446	3115469.86	0.1270	A	2.4
4	☐	1250.000	1264.366	7670180.73	0.3163	A	4.2
5	☐	2500.000	2553.256	15364159.02	0.6388	A	2.4
6	☐	5000.000	4999.345	29444594.76	1.2507	A	3.2
7	☐	10000.000	9984.845	61327177.07	2.4979	A	2.0
8	☐			42090.24	0.0017	P	2.2

$$y = 2.5017\text{E-}004 * x + 2.1343\text{E-}005$$

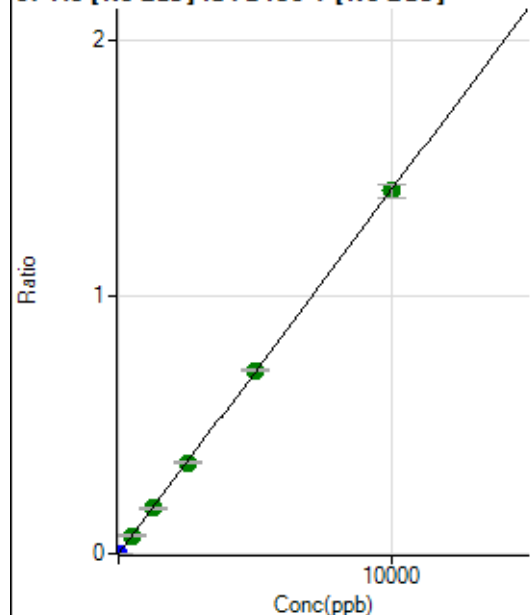
$$R = 1.0000$$

$$DL = 0.01621$$

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	77.78	0.0000	P	31.1
2	☐	5.000	5.060	17681.23	0.0007	P	0.8
3	☐	500.000	501.799	1744474.02	0.0711	A	1.1
4	☐	1250.000	1245.306	4276964.72	0.1764	A	4.1
5	☐	2500.000	2509.437	8549453.15	0.3554	A	2.0
6	☐	5000.000	5048.381	16842307.32	0.7150	A	1.1
7	☐	10000.000	9973.947	34663296.61	1.4126	A	3.9
8	☐			7263.19	0.0003	P	0.3

$$y = 1.4163\text{E-}004 * x + 3.2315\text{E-}006$$

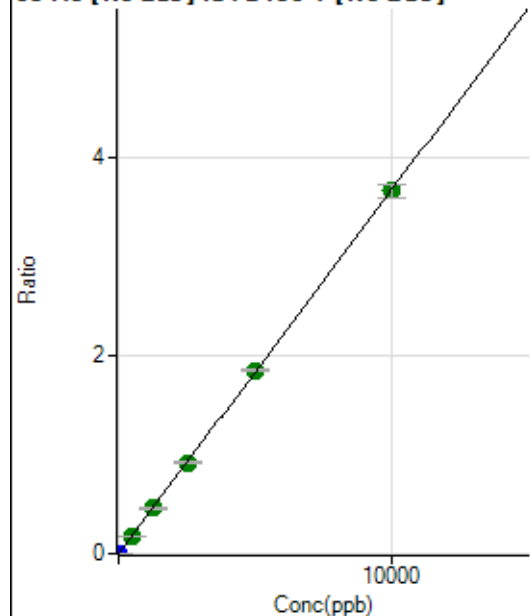
$$R = 1.0000$$

$$DL = 0.02129$$

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	233.34	0.0000	P	3.7
2	☐	5.000	5.016	45394.74	0.0018	P	4.1
3	☐	500.000	497.578	4477447.89	0.1824	A	1.0
4	☐	1250.000	1252.186	11132455.37	0.4591	A	4.4
5	☐	2500.000	2493.403	21990769.94	0.9142	A	2.0
6	☐	5000.000	5045.554	43579768.68	1.8500	A	0.4
7	☐	10000.000	9978.720	89783431.87	3.6587	A	3.5
8	☐			17433.71	0.0007	P	5.0

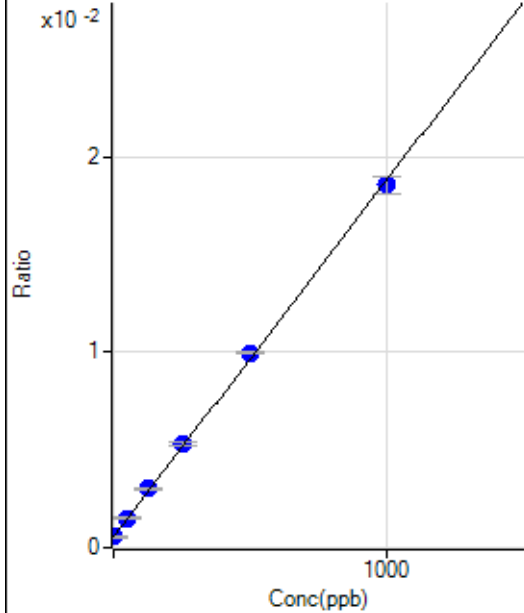
$$y = 3.6665\text{E-}004 * x + 9.6902\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.002921$$

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	9183.90	0.0005	P	3.2
2	☐	1.000	-0.268	9233.90	0.0005	P	2.5
3	☐	50.000	53.231	26186.84	0.0015	P	2.3
4	☐	125.000	136.346	50172.87	0.0030	P	2.6
5	☐	250.000	261.455	89810.67	0.0053	P	3.7
6	☐	500.000	516.463	164431.70	0.0100	P	1.4
7	☐	1000.000	987.326	317446.77	0.0185	P	4.8
8	☐			8764.13	0.0005	P	3.4

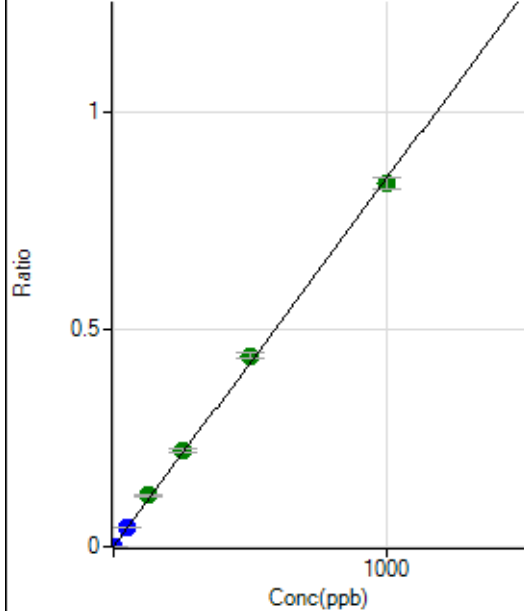
$$y = 1.8230E-005 * x + 5.4667E-004$$

$$R = 0.9997$$

$$DL = 2.859$$

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	169.45	0.0000	P	8.9
2	☐	1.000	1.077	15739.97	0.0009	P	3.0
3	☐	50.000	52.255	765536.50	0.0443	P	2.1
4	☐	125.000	140.116	1966753.40	0.1189	A	4.0
5	☐	250.000	262.400	3764529.86	0.2227	A	3.2
6	☐	500.000	518.293	7257742.26	0.4398	A	2.7
7	☐	1000.000	985.751	14322171.67	0.8364	A	3.3
8	☐			3747.85	0.0002	P	5.3

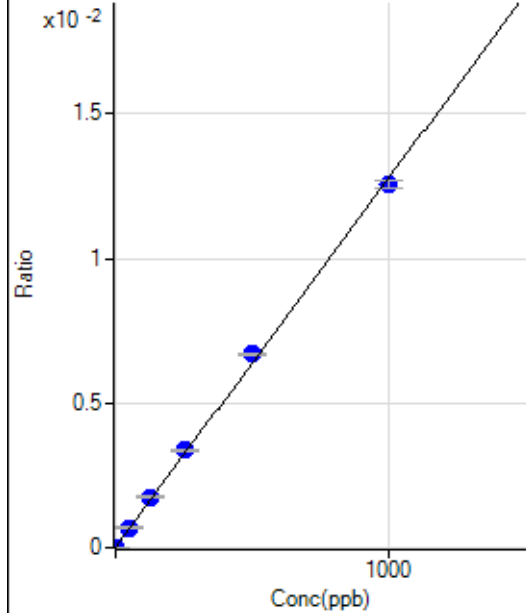
$$y = 8.4849E-004 * x + 1.0075E-005$$

$$R = 0.9996$$

$$DL = 0.003165$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.61	0.0000	P	10.4
2	☐	1.000	0.635	288.89	0.0000	P	14.3
3	☐	50.000	53.366	11899.71	0.0007	P	4.0
4	☐	125.000	136.598	28966.78	0.0018	P	3.1
5	☐	250.000	264.043	57083.17	0.0034	P	2.3
6	☐	500.000	524.312	110504.19	0.0067	P	0.7
7	☐	1000.000	982.715	214806.41	0.0125	P	2.2
8	☐			154.17	0.0000	P	7.6

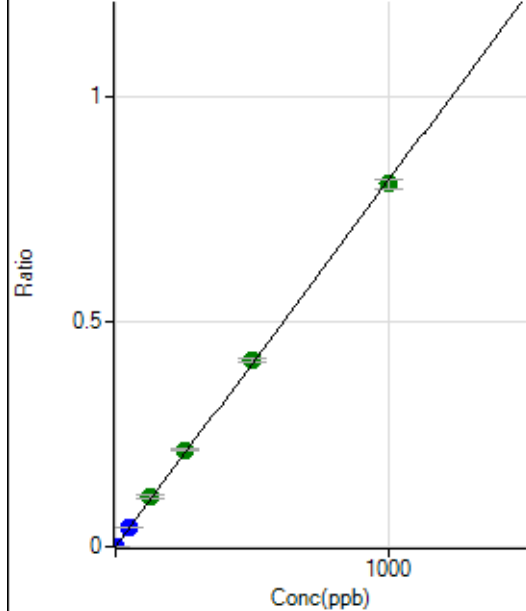
$$y = 1.2753\text{E-}005 * x + 8.8541\text{E-}006$$

$$R = 0.9994$$

$$DL = 0.2171$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.11	0.0000	P	24.4
2	☐	1.000	1.110	15525.88	0.0009	P	2.5
3	☐	50.000	52.108	731836.33	0.0424	P	1.3
4	☐	125.000	136.655	1838669.88	0.1112	A	4.1
5	☐	250.000	264.879	3642827.99	0.2154	A	2.7
6	☐	500.000	508.748	6828908.92	0.4138	A	2.2
7	☐	1000.000	990.344	13794807.77	0.8055	A	2.9
8	☐			3508.88	0.0002	P	4.8

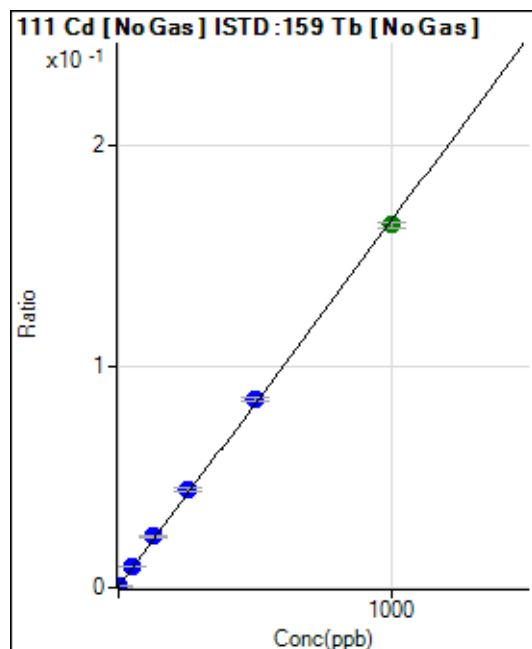
$$y = 8.1333\text{E-}004 * x + 8.0965\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.007292$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6458.04	0.0004	P	2.9
2	☐	1.000	1.008	9391.07	0.0006	P	2.3
3	☐	50.000	53.398	159132.36	0.0092	P	1.3
4	☐	125.000	136.968	381273.89	0.0230	P	3.3
5	☐	250.000	265.500	749030.01	0.0443	P	3.1
6	☐	500.000	513.072	1407128.51	0.0853	P	1.5
7	☐	1000.000	987.923	2806287.57	0.1638	A	1.6
8	☐			6561.71	0.0004	P	4.2

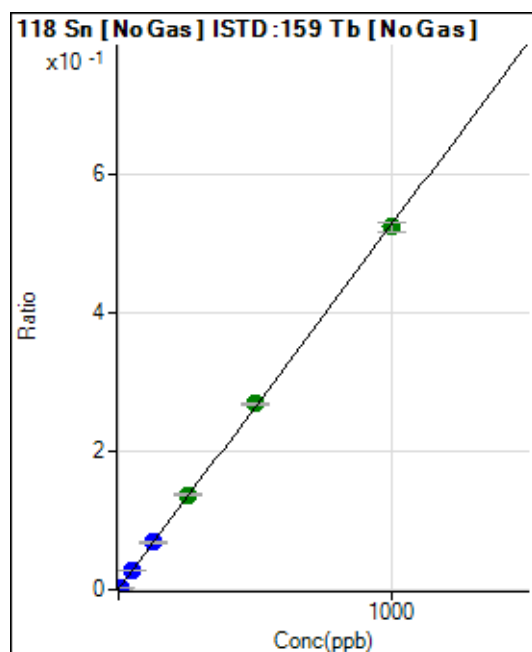
$$y = 1.6543\text{E-}004 * x + 3.8441\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.2015$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13122.66	0.0008	P	8.4
2	☐	5.000	4.975	57912.76	0.0034	P	2.0
3	☐	50.000	49.190	460148.73	0.0267	P	1.7
4	☐	125.000	128.231	1128855.37	0.0682	P	3.2
5	☐	250.000	257.333	2301920.75	0.1361	A	2.0
6	☐	500.000	508.121	4424478.62	0.2681	A	0.4
7	☐	1000.000	993.743	8965764.18	0.5235	A	2.6
8	☐			9759.31	0.0006	P	3.5

$$y = 5.2601\text{E-}004 * x + 7.8144\text{E-}004$$

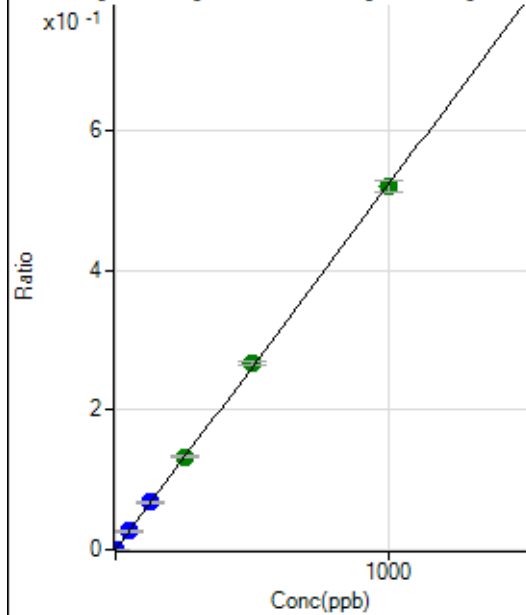
$$R = 0.9999$$

$$DL = 0.3737$$

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	105.56	0.0000	P	12.9
2	☐	2.000	2.005	17978.90	0.0011	P	2.4
3	☐	50.000	50.384	455144.46	0.0264	P	1.5
4	☐	125.000	129.516	1121058.36	0.0678	P	3.4
5	☐	250.000	254.716	2252745.10	0.1333	A	3.6
6	☐	500.000	509.254	4397135.43	0.2664	A	1.8
7	☐	1000.000	993.610	8901470.60	0.5198	A	3.2
8	☐			8647.42	0.0005	P	5.0

$$y = 5.2317\text{E-}004 * x + 6.2872\text{E-}006$$

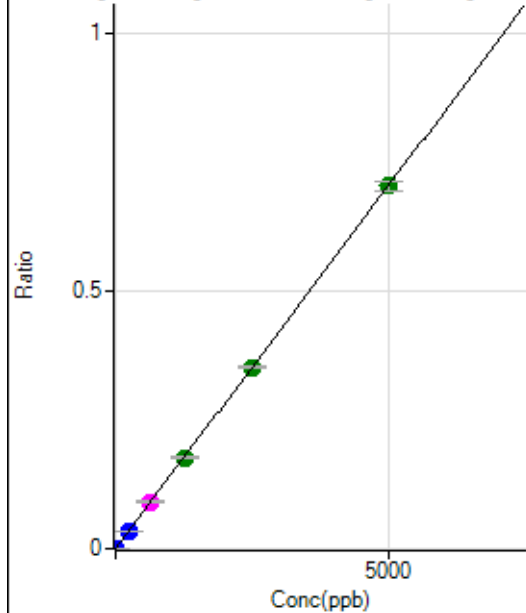
$$R = 0.9999$$

$$DL = 0.004664$$

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	44.45	0.0000	P	10.6
2	☐	10.000	9.716	23373.61	0.0014	P	1.7
3	☐	250.000	249.494	606868.48	0.0352	P	0.8
4	☐	625.000	646.664	1507313.62	0.0911	M	3.7
5	☐	1250.000	1255.570	2990413.72	0.1769	A	3.1
6	☐	2500.000	2499.377	5812254.91	0.3521	A	1.2
7	☐	5000.000	4996.237	12055386.47	0.7039	A	2.6
8	☐			5718.03	0.0003	P	2.3

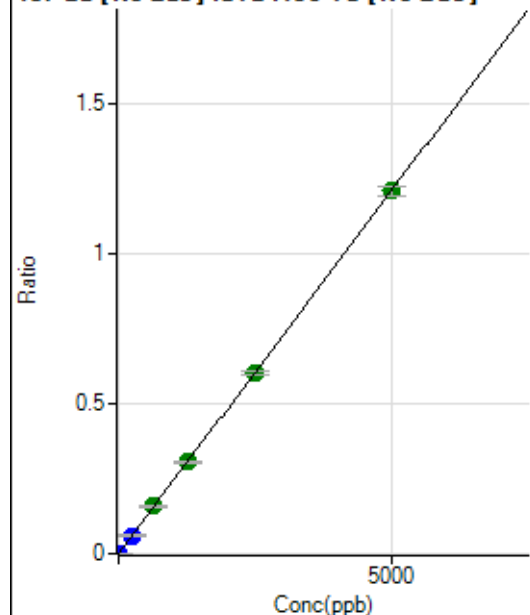
$$y = 1.4088\text{E-}004 * x + 2.6447\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.005968$$

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	80.56	0.0000	P	29.5
2	☐	10.000	9.699	40066.17	0.0024	P	2.1
3	☐	250.000	250.526	1046309.39	0.0606	P	2.1
4	☐	625.000	648.995	2597742.79	0.1570	A	2.8
5	☐	1250.000	1260.645	5155786.96	0.3050	A	3.2
6	☐	2500.000	2493.463	9955481.56	0.6032	A	1.6
7	☐	5000.000	4997.582	20710854.81	1.2090	A	2.5
8	☐			10162.41	0.0006	P	2.3

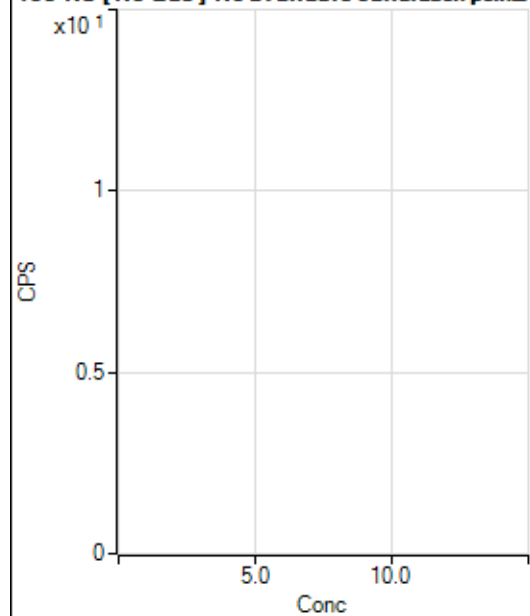
$$y = 2.4192E-004 * x + 4.7914E-006$$

$$R = 1.0000$$

$$DL = 0.01754$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	91.7
2	☐			11.11		P	34.6
3	☐			62.22		P	6.2
4	☐			151.11		P	25.8
5	☐			260.01		P	23.5
6	☐			488.91		P	10.2
7	☐			1004.50		P	13.6
8	☐			120.00		P	41.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			7.78		P	24.7
3	☐			5.56		P	34.7
4	☐			16.67		P	20.0
5	☐			25.55		P	52.7
6	☐			41.11		P	28.5
7	☐			86.67		P	3.8
8	☐			33.33		P	70.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐			5.55		P	86.6
3	☐			27.78		P	45.8
4	☐			102.78		P	40.8
5	☐			113.89		P	55.4
6	☐			227.79		P	24.4
7	☐			486.14		P	12.0
8	☐			1250.10		P	8.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			3.33		P	0.0
3	☐			11.11		P	62.5
4	☐			22.22		P	22.9
5	☐			46.67		P	7.1
6	☐			90.00		P	18.5
7	☐			190.00		P	12.3
8	☐			436.68		P	7.3

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			155.56		P	6.2
2	☐			105.56		P	9.1
3	☐			177.78		P	19.5
4	☐			166.67		P	15.0
5	☐			205.56		P	6.2
6	☐			294.46		P	24.4
7	☐			375.02		P	29.1
8	☐			952.84		P	6.4

160 Gd [He] No available calibration points

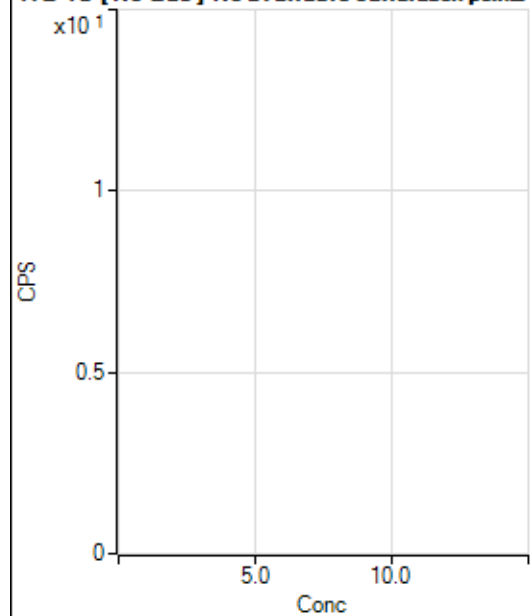
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			180.00		P	4.9
2	☐			160.00		P	9.5
3	☐			150.00		P	9.7
4	☐			144.45		P	7.4
5	☐			175.56		P	2.9
6	☐			206.67		P	18.0
7	☐			247.78		P	4.1
8	☐			497.79		P	9.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			94.45		P	5.1
2	☐			52.78		P	74.6
3	☐			108.33		P	13.3
4	☐			116.67		P	37.8
5	☐			102.78		P	16.9
6	☐			119.45		P	29.0
7	☐			211.12		P	2.3
8	☐			130.56		P	9.8

164 Er [He] No available calibration points

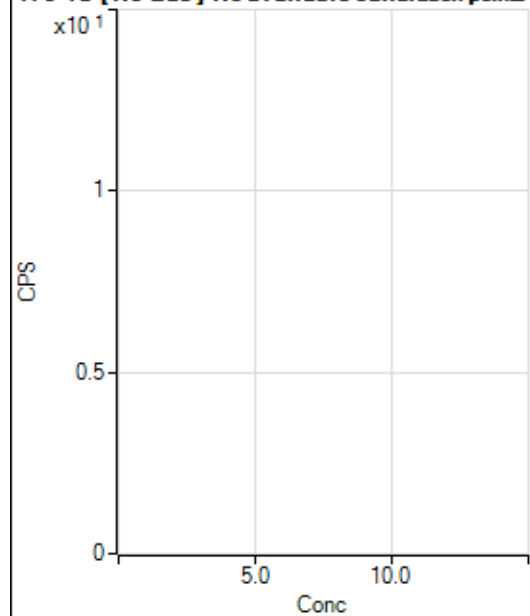
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	28.9
2	☐			22.22		P	82.6
3	☐			28.89		P	17.6
4	☐			33.34		P	17.3
5	☐			45.55		P	15.2
6	☐			55.55		P	28.4
7	☐			72.22		P	11.6
8	☐			62.22		P	8.2

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.34		P	27.7
2	☐			105.56		P	16.4
3	☐			97.22		P	21.6
4	☐			113.89		P	27.7
5	☐			122.22		P	17.2
6	☐			133.34		P	25.0
7	☐			144.45		P	17.6
8	☐			250.01		P	28.9

172 Yb [He] No available calibration points

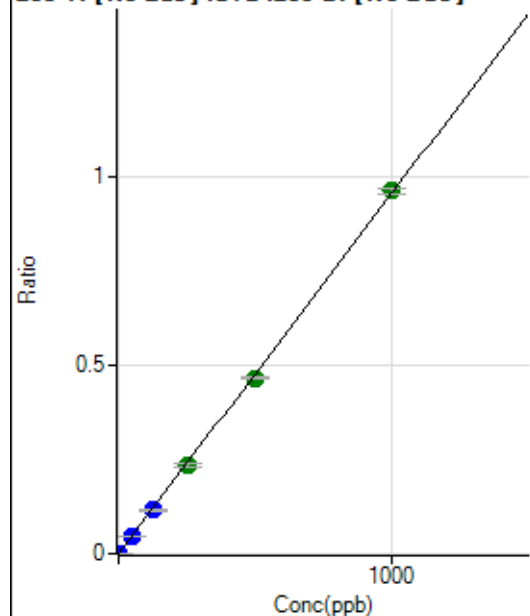
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.15		P	29.0
2	☐			55.56		P	26.5
3	☐			25.93		P	32.7
4	☐			40.74		P	41.7
5	☐			53.70		P	23.9
6	☐			57.41		P	43.6
7	☐			94.45		P	41.2
8	☐			125.93		P	9.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3269.95		P	4.6
2	☐			3281.06		P	2.2
3	☐			4303.62		P	5.1
4	☐			5384.56		P	3.7
5	☐			8069.35		P	4.0
6	☐			13243.21		P	0.3
7	☐			23766.53		P	2.9
8	☐			2803.15		P	2.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10823.17		P	2.4
2	☐			10878.75		P	3.7
3	☐			10913.98		P	2.0
4	☐			11323.57		P	0.8
5	☐			12624.78		P	1.4
6	☐			14222.73		P	2.6
7	☐			18702.46		P	1.4
8	☐			10825.01		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	930.62	0.0001	P	7.7
2	☐	1.000	0.909	9503.74	0.0010	P	2.1
3	☐	50.000	47.061	451491.23	0.0451	P	3.0
4	☐	125.000	121.314	1120675.83	0.1161	P	5.1
5	☐	250.000	245.461	2281038.22	0.2348	A	2.5
6	☐	500.000	487.061	4358021.89	0.4657	A	1.3
7	☐	1000.000	1008.212	8981985.79	0.9639	A	1.8
8	☐			3297.73	0.0004	P	6.6

$$y = 9.5599E-004 * x + 9.4836E-005$$

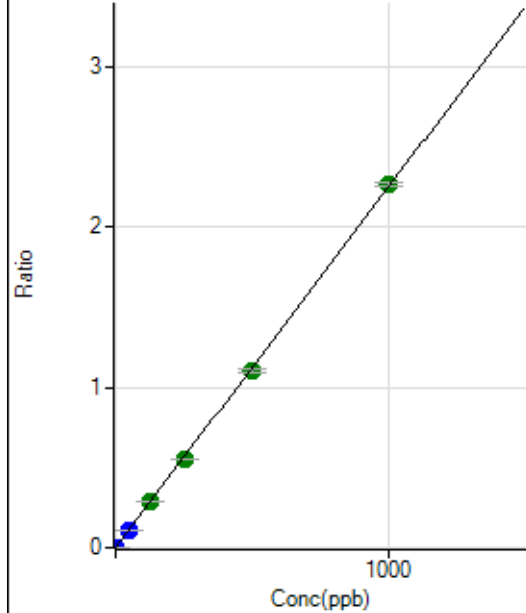
$$R = 0.9999$$

$$DL = 0.02282$$

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	2133.57	0.0002	P	5.3
2	☐	1.000	0.943	23093.49	0.0023	P	2.8
3	☐	50.000	46.454	1049168.76	0.1048	P	4.5
4	☐	125.000	127.693	2778775.82	0.2877	A	3.8
5	☐	250.000	245.518	5373847.52	0.5530	A	1.6
6	☐	500.000	490.865	10338328.44	1.1053	A	2.7
7	☐	1000.000	1005.529	21093834.15	2.2640	A	1.1
8	☐			8272.38	0.0010	P	4.7

$$y = 0.0023 * x + 2.1743E-004$$

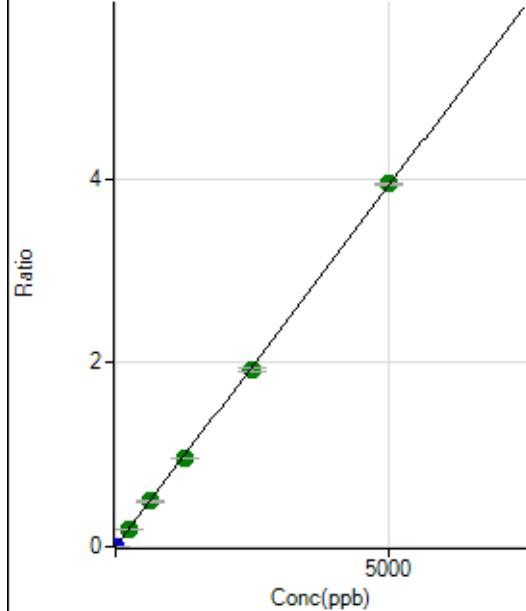
$$R = 0.9999$$

$$DL = 0.01529$$

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	1935.37	0.0002	P	6.4
2	☐	1.000	0.928	9121.87	0.0009	P	1.8
3	☐	250.000	241.256	1896398.41	0.1893	A	1.8
4	☐	625.000	627.122	4748074.41	0.4918	A	5.2
5	☐	1250.000	1222.813	9318372.31	0.9588	A	0.8
6	☐	2500.000	2450.838	17972354.80	1.9214	A	1.7
7	☐	5000.000	5031.550	36747523.97	3.9444	A	0.5
8	☐			8154.60	0.0010	P	2.5

$$y = 7.8389E-004 * x + 1.9721E-004$$

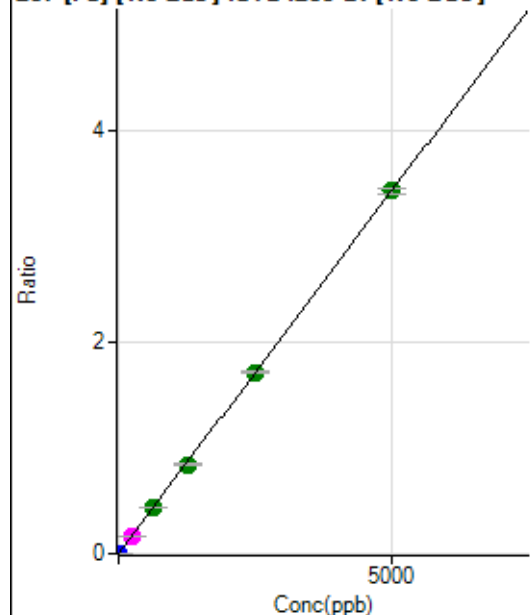
$$R = 0.9999$$

$$DL = 0.04818$$

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	1500.11	0.0002	P	8.1
2	☐	1.000	0.948	7908.14	0.0008	P	4.2
3	☐	250.000	241.700	1657621.17	0.1657	M	6.9
4	☐	625.000	634.118	4197312.74	0.4344	A	3.0
5	☐	1250.000	1228.216	8174258.69	0.8412	A	2.4
6	☐	2500.000	2502.479	16035882.77	1.7138	A	1.1
7	☐	5000.000	5003.482	31926683.58	3.4265	A	1.6
8	☐			6898.26	0.0009	P	2.0

$$y = 6.8480E-004 * x + 1.5285E-004$$

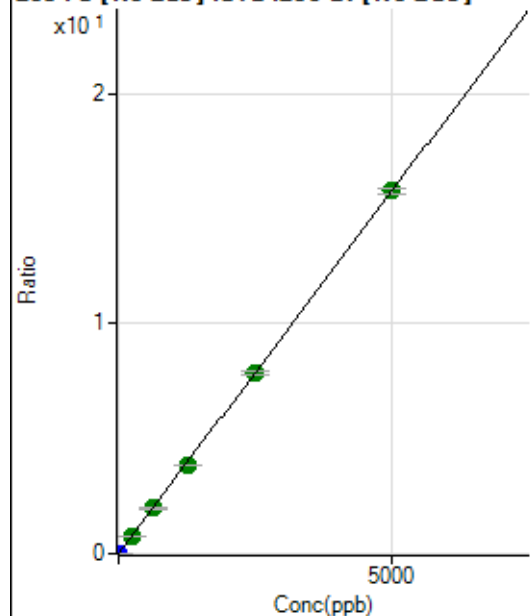
$$R = 1.0000$$

$$DL = 0.05407$$

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	7295.38	0.0007	P	2.1
2	☐	1.000	0.940	36526.45	0.0037	P	0.6
3	☐	250.000	241.215	7609693.11	0.7600	A	3.6
4	☐	625.000	628.137	19109583.45	1.9779	A	2.8
5	☐	1250.000	1226.380	37525923.12	3.8609	A	1.0
6	☐	2500.000	2494.823	73468844.47	7.8536	A	1.5
7	☐	5000.000	5008.540	146886588.9	15.7658	A	1.3
8	☐			31734.38	0.0040	P	1.4

$$y = 0.0031 * x + 7.4341E-004$$

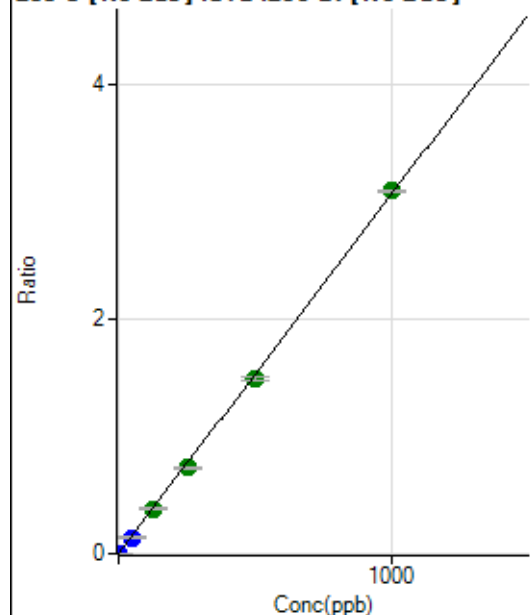
$$R = 1.0000$$

$$DL = 0.01513$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.90	0.0000	P	31.2
2	☐	1.000	0.895	27274.63	0.0028	P	1.4
3	☐	50.000	45.172	1389021.56	0.1387	P	2.8
4	☐	125.000	124.528	3691749.21	0.3823	A	5.0
5	☐	250.000	239.708	7150177.51	0.7359	A	2.8
6	☐	500.000	487.085	13986711.77	1.4953	A	2.1
7	☐	1000.000	1009.331	28868140.58	3.0986	A	0.6
8	☐			2508.67	0.0003	P	8.5

$$y = 0.0031 * x + 1.6705E-005$$

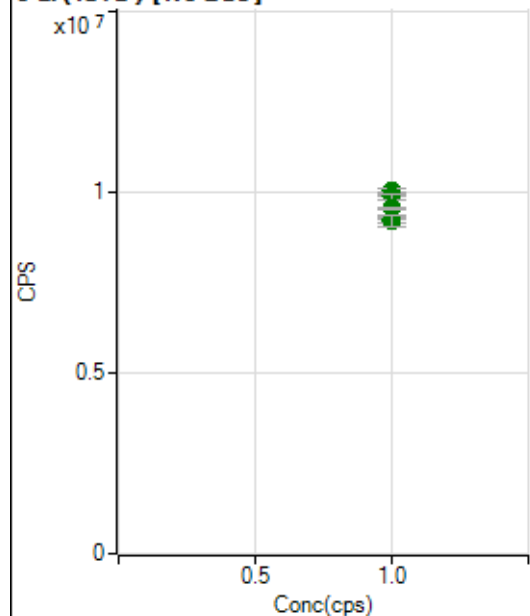
$$R = 0.9998$$

$$DL = 0.005088$$

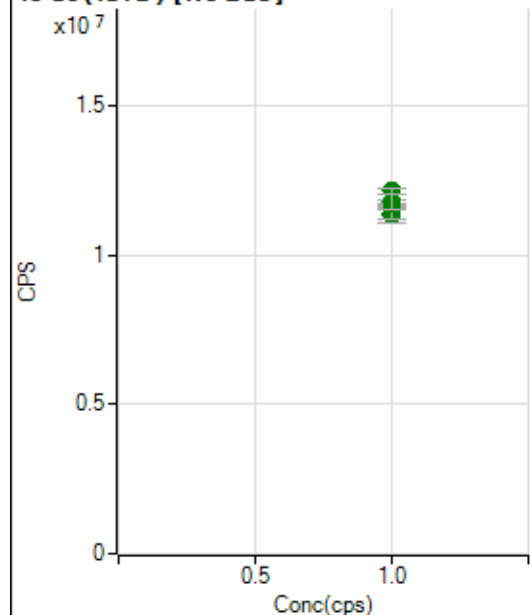
Weight: <None>

Min Conc: 0

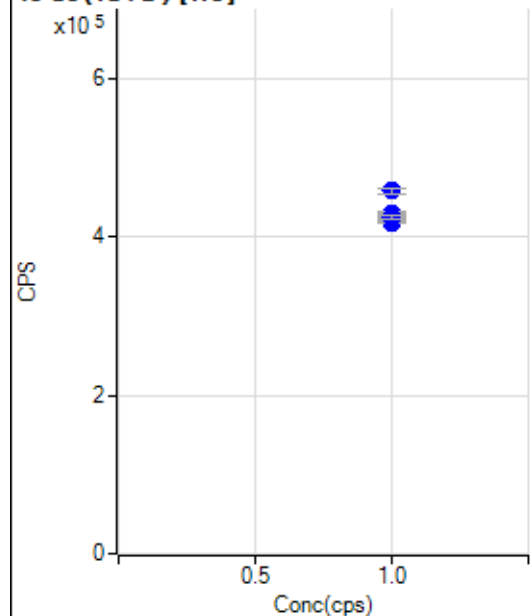
6 Li (ISTD) [No Gas]



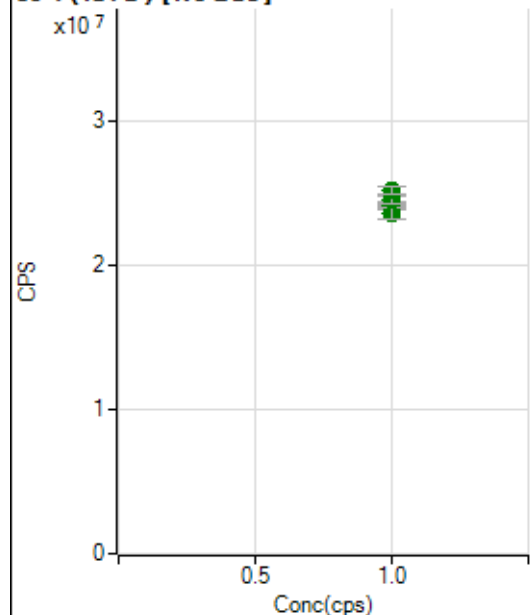
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9926093.11		A	1.4
2	☐	1.000		9946348.18		A	1.1
3	☐	1.000		10020662.02		A	1.6
4	☐	1.000		9852864.34		A	1.9
5	☐	1.000		9543693.20		A	0.6
6	☐	1.000		9266218.92		A	1.0
7	☐	1.000		9253702.36		A	2.2
8	☐	1.000		9187842.89		A	3.5

45 Sc (ISTD) [No Gas]

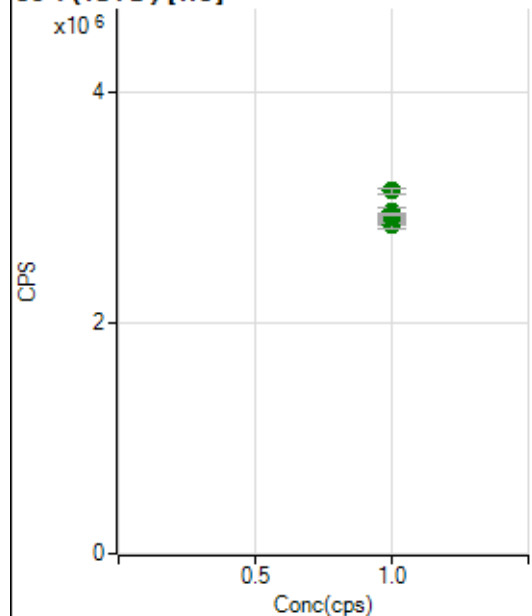
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11676102.88		A	1.0
2	☐	1.000		11771169.13		A	1.0
3	☐	1.000		12134181.49		A	1.3
4	☐	1.000		11291874.69		A	3.8
5	☐	1.000		11586131.08		A	1.2
6	☐	1.000		11387839.00		A	3.8
7	☐	1.000		11682025.38		A	0.5
8	☐	1.000		11772442.05		A	4.0

45 Sc (ISTD) [He]

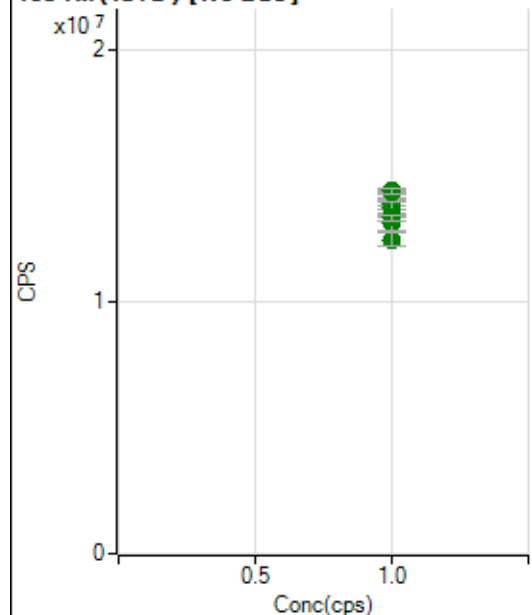
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		423850.52		P	0.6
2	☐	1.000		430988.32		P	0.6
3	☐	1.000		423741.87		P	3.0
4	☐	1.000		423667.29		P	0.7
5	☐	1.000		421894.57		P	1.2
6	☐	1.000		418347.22		P	0.5
7	☐	1.000		426204.65		P	1.2
8	☐	1.000		458563.69		P	1.7

89 Y (ISTD) [No Gas]

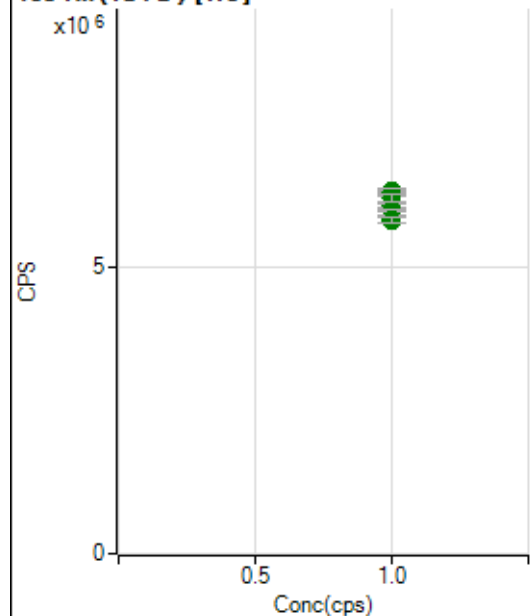
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		24080607.98		A	0.2
2	☐	1.000		24561469.63		A	1.4
3	☐	1.000		24541864.08		A	1.5
4	☐	1.000		24274962.41		A	4.0
5	☐	1.000		24059221.31		A	1.6
6	☐	1.000		23558475.76		A	3.3
7	☐	1.000		24554627.41		A	2.6
8	☐	1.000		25121994.63		A	2.2

89 Y (ISTD) [He]

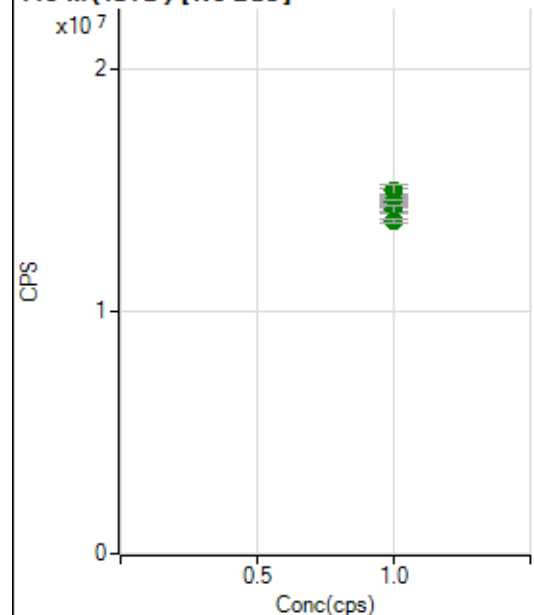
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2890996.17		A	3.1
2	☐	1.000		2942028.43		A	0.4
3	☐	1.000		2958708.11		A	2.7
4	☐	1.000		2842494.26		A	1.9
5	☐	1.000		2911593.29		A	1.7
6	☐	1.000		2906754.75		A	0.9
7	☐	1.000		2934121.41		A	0.3
8	☐	1.000		3140508.49		A	1.3

103 Rh (ISTD) [No Gas]

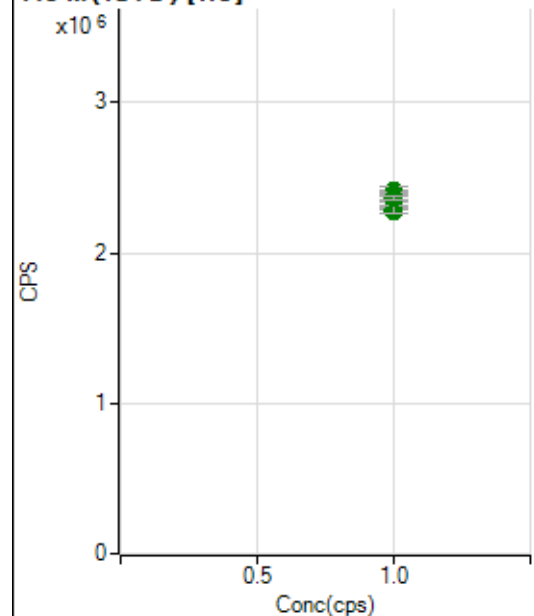
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14104670.02		A	4.0
2	☐	1.000		14226927.58		A	1.5
3	☐	1.000		14389447.02		A	1.3
4	☐	1.000		13865152.22		A	2.9
5	☐	1.000		13712411.33		A	3.1
6	☐	1.000		13084069.74		A	3.8
7	☐	1.000		13311532.50		A	1.7
8	☐	1.000		12468753.32		A	4.2

103 Rh (ISTD) [He]

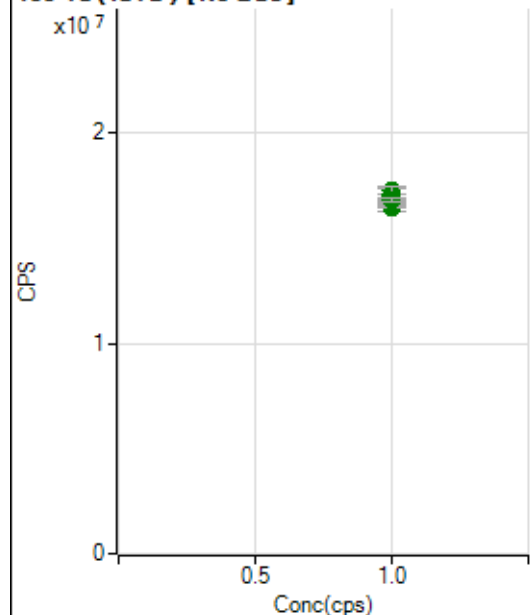
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6166652.41		A	3.1
2	☐	1.000		6349381.71		A	0.5
3	☐	1.000		6329673.52		A	2.5
4	☐	1.000		6090182.68		A	0.9
5	☐	1.000		6235940.19		A	2.0
6	☐	1.000		5997691.99		A	0.6
7	☐	1.000		5856957.76		A	2.4
8	☐	1.000		5833504.08		A	1.9

115 In (ISTD) [No Gas]

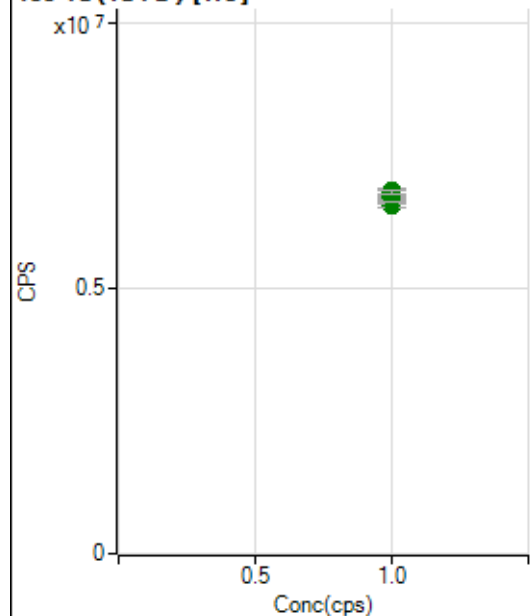
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14611821.73		A	1.3
2	☐	1.000		14968154.11		A	1.9
3	☐	1.000		14969732.21		A	3.3
4	☐	1.000		14318066.32		A	2.3
5	☐	1.000		14502533.39		A	1.0
6	☐	1.000		14194394.29		A	1.3
7	☐	1.000		14191571.92		A	2.2
8	☐	1.000		13727636.30		A	0.7

115 In (ISTD) [He]

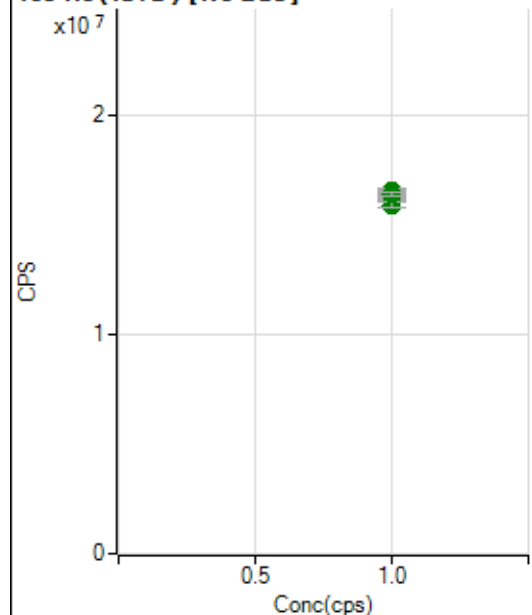
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2412538.49		A	0.3
2	☐	1.000		2396610.09		A	1.9
3	☐	1.000		2405631.47		A	2.6
4	☐	1.000		2280207.09		A	1.6
5	☐	1.000		2396288.22		A	0.4
6	☐	1.000		2315466.26		A	1.9
7	☐	1.000		2289700.82		A	2.2
8	☐	1.000		2368301.34		A	1.1

159 Tb (ISTD) [No Gas]

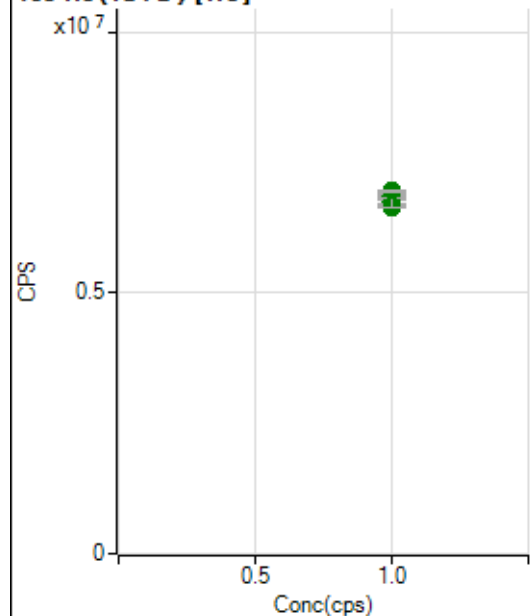
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16805780.58		A	1.8
2	☐	1.000		17043031.69		A	1.1
3	☐	1.000		17265148.77		A	1.3
4	☐	1.000		16553642.67		A	2.8
5	☐	1.000		16913493.22		A	2.3
6	☐	1.000		16505235.17		A	0.9
7	☐	1.000		17136722.38		A	3.5
8	☐	1.000		16829207.80		A	1.1

159 Tb (ISTD) [He]

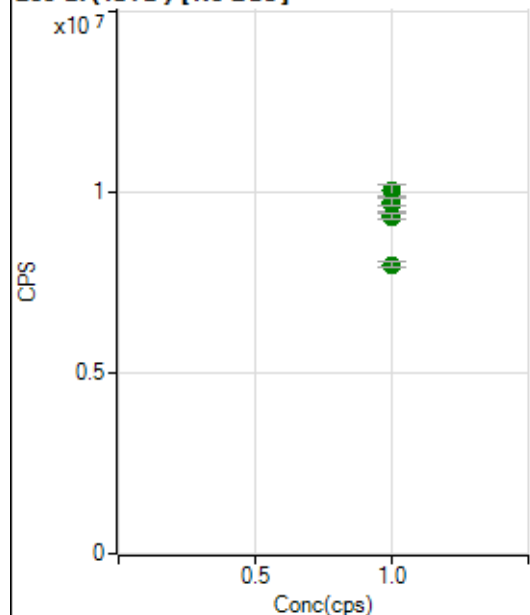
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6673730.53		A	2.1
2	☐	1.000		6845930.11		A	1.8
3	☐	1.000		6721900.73		A	1.3
4	☐	1.000		6557931.29		A	1.3
5	☐	1.000		6744887.89		A	0.9
6	☐	1.000		6634356.36		A	1.0
7	☐	1.000		6721085.66		A	2.0
8	☐	1.000		6834628.16		A	1.0

165 Ho (ISTD) [No Gas]

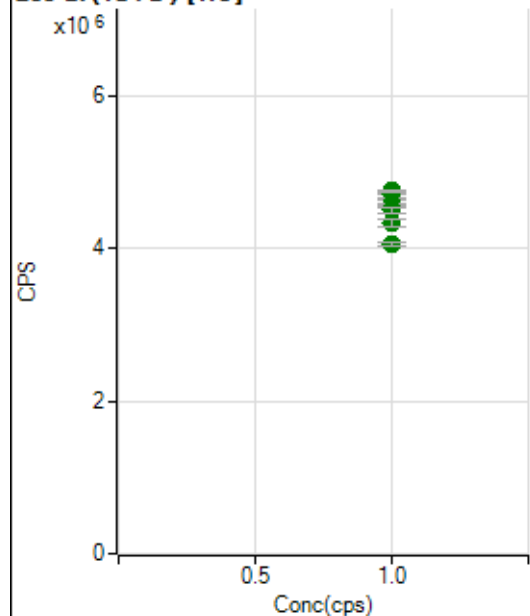
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16222150.54		A	0.7
2	☐	1.000		16307313.91		A	0.6
3	☐	1.000		16472069.99		A	1.4
4	☐	1.000		16575712.87		A	1.4
5	☐	1.000		15939359.56		A	1.7
6	☐	1.000		15913132.30		A	1.7
7	☐	1.000		16472757.31		A	1.8
8	☐	1.000		16395353.32		A	1.0

165 Ho (ISTD) [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6758108.93		A	1.9
2	☐	1.000		6918577.95		A	0.7
3	☐	1.000		6816799.34		A	1.3
4	☐	1.000		6656687.54		A	0.7
5	☐	1.000		6857806.43		A	2.2
6	☐	1.000		6759457.40		A	1.1
7	☐	1.000		6738122.68		A	3.1
8	☐	1.000		6961161.15		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9813192.49		A	0.2
2	☐	1.000		9865402.70		A	0.8
3	☐	1.000		10021323.05		A	3.6
4	☐	1.000		9668770.97		A	4.2
5	☐	1.000		9720655.34		A	2.6
6	☐	1.000		9356532.78		A	2.6
7	☐	1.000		9316831.11		A	1.7
8	☐	1.000		7992058.36		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4710771.94		A	0.3
2	☐	1.000		4711724.69		A	2.0
3	☐	1.000		4747152.57		A	0.6
4	☐	1.000		4574382.29		A	2.4
5	☐	1.000		4568751.35		A	0.8
6	☐	1.000		4495103.09		A	1.5
7	☐	1.000		4324612.68		A	2.6
8	☐	1.000		4050039.63		A	1.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8072922MS.b

Acq. Date-Time 2022-07-29 07:05:31

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		31181	311808.67			1.785	5.000
24		196635	1966350.56			1.918	5.000
25		26145	261446.06			0.958	5.000
26		31234	312340.80			0.638	5.000
59		46758	467584.29			0.605	5.000
113		20573	205728.61			1.315	5.000
115		61174	611741.35			1.598	5.000
206		23013	230133.45			1.147	5.000
207		19350	193497.83			1.556	5.000
208		47510	475095.22			0.741	5.000
220		0	4.60			28.135	

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

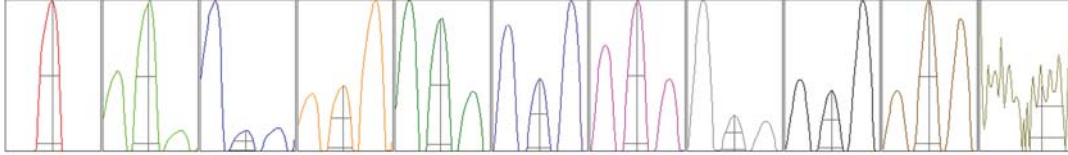
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	31863	31154	30317	31237	31333
24	201073	199094	191246	195179	196583
25	26285	26361	25722	26135	26221
26	31436	31388	30946	31133	31268
59	47125	46808	46342	46829	46687
113	20586	20746	20102	20693	20737
115	61712	62239	59761	60641	61518
206	22958	23377	22652	23114	22965
207	19364	19709	19071	19027	19577
208	47459	47939	47088	47275	47787

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	54141.31	9.00	8.90 - 9.10	
24	335460.59	23.95	23.90 - 24.10	
25	45056.22	24.95	24.90 - 25.10	
26	50786.61	25.95	25.90 - 26.10	
59	82092.97	58.95	58.90 - 59.10	
113	40481.95	113.00	112.90 - 113.10	
115	118228.42	115.00	114.90 - 115.10	
206	44762.17	206.00	205.90 - 206.10	
207	37862.70	207.00	206.90 - 207.10	
208	92991.16	208.00	207.90 - 208.10	
220	0.60	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.786	0.900	
24	0.64	0.825	0.900	
25	0.62	0.788	0.900	
26	0.63	0.785	0.900	
59	0.60	0.782	0.900	
113	0.53	0.732	0.900	
115	0.54	0.767	0.900	
206	0.53	0.762	0.900	
207	0.53	0.778	0.900	
208	0.53	0.791	0.900	
220	0.82	1.068		

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	1.40 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	8.5 V	Deflect	16.6 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	170 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9996	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.6 mm
---------	--------	---------	---------

EM

Discriminator	4.4 mV	Analog HV	2305 V	Pulse HV	1644 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10393	103931.97			2.126	
89		59269	592688.22			3.253	
205		45392	453920.16			2.532	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10768	10356	10253	10209	10379
89	62419	58565	57221	58765	59374
205	46986	45400	44202	44398	45975

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	1.40 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	8.5 V	Deflect	3.2 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 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	125	Axis Gain	0.9996	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.6 mm
---------	--------	---------	---------

EM

Discriminator	4.4 mV	Analog HV	2305 V	Pulse HV	1644 V
---------------	--------	-----------	--------	----------	--------