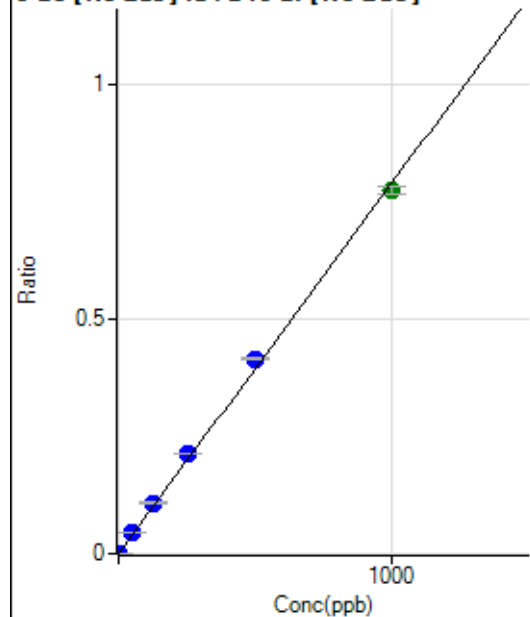


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7121123MS.b\
 Analysis File: P7121123MS.batch.bin
 DA Date-Time: 2023-12-14 11:35:26
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-12-11 12:54:48
2	006CALS.d	S02	2023-12-11 13:01:22
3	007CALS.d	S03	2023-12-11 13:04:37
4	008CALS.d	S04	2023-12-11 13:07:42
5	009CALS.d	S05	2023-12-11 13:10:36
6	010CALS.d	S06	2023-12-11 13:13:26
7	011CALS.d	S07	2023-12-11 13:16:12
8	012CALS.d	S08	2023-12-11 13:18:59

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0000	P	42.4
2	☐	1.000	1.099	2336.86	0.0009	P	7.7
3	☐	50.000	55.618	114671.87	0.0440	P	1.1
4	☐	125.000	137.608	277897.53	0.1088	P	0.8
5	☐	250.000	268.280	529233.52	0.2120	P	0.3
6	☐	500.000	526.816	1009947.16	0.4164	P	1.3
7	☐	1000.000	980.165	1850191.09	0.7746	A	2.2
8	☐			515.57	0.0002	P	16.8

$$y = 7.9029\text{E-}004 * x + 1.7243\text{E-}005$$

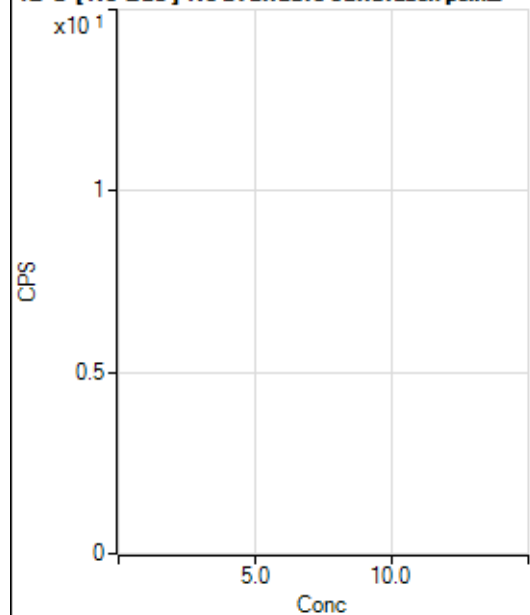
$$R = 0.9992$$

$$DL = 0.02775$$

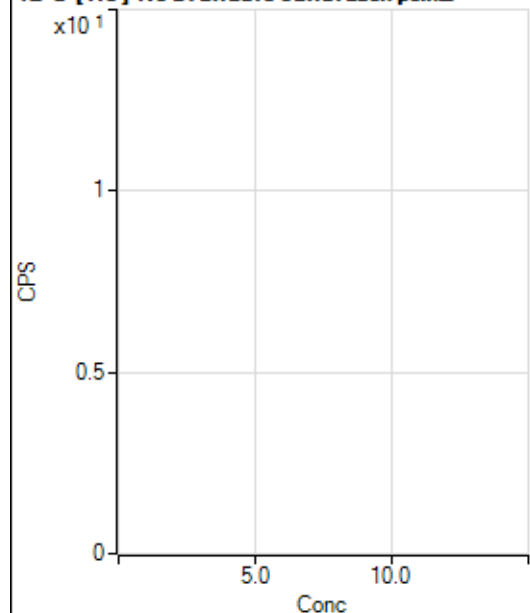
$$BEC = 0.02182$$

Weight: <None>

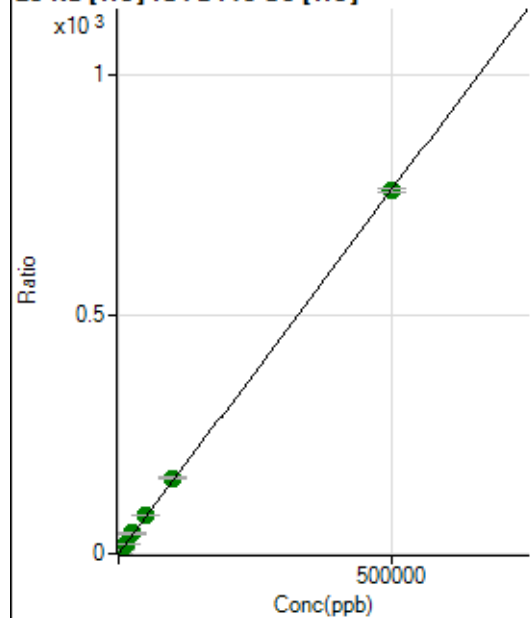
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16741.39	0.0411	P	1.2
2	☐	500.000	506.629	326369.23	0.8115	P	0.7
3	☐	5000.000	5296.514	3147872.28	8.0951	A	1.2
4	☐	12500.000	13437.171	7684404.05	20.4741	A	1.0
5	☐	25000.000	28234.836	14629985.20	42.9759	A	7.1
6	☐	50000.000	52277.854	28644219.30	79.5366	A	2.6
7	☐	100000.00	103969.34	56002331.95	158.1404	A	3.2
8	☐	500000.00	498790.20	253919540.6	758.5186	A	1.1

$$y = 0.0015 * x + 0.0411$$

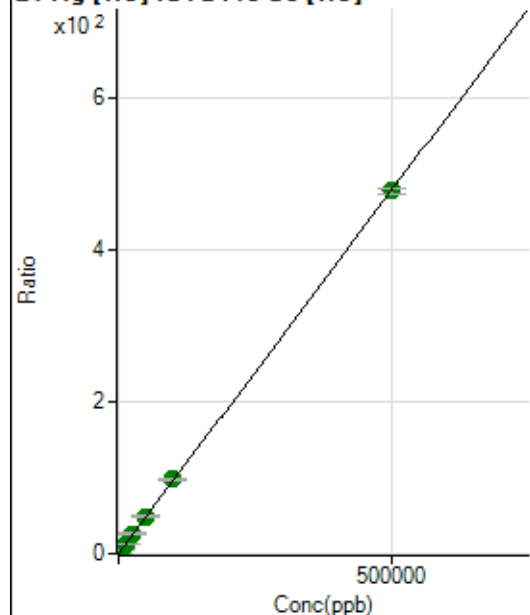
$$R = 1.0000$$

$$DL = 0.9918$$

$$BEC = 27$$

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	307.78	0.0008	P	12.8
2	☐	500.000	500.983	192723.59	0.4792	P	1.3
3	☐	5000.000	5241.647	1946779.50	5.0065	A	1.5
4	☐	12500.000	13205.517	4733352.88	12.6120	A	1.4
5	☐	25000.000	27715.095	9011658.48	26.4686	A	6.9
6	☐	50000.000	51305.802	17647124.32	48.9976	A	2.2
7	☐	100000.00	101988.04	34488211.15	97.3989	A	3.7
8	☐	500000.00	499316.00	159625389.8	476.8455	A	1.5

$$y = 9.5500\text{E-}004 * x + 7.5437\text{E-}004$$

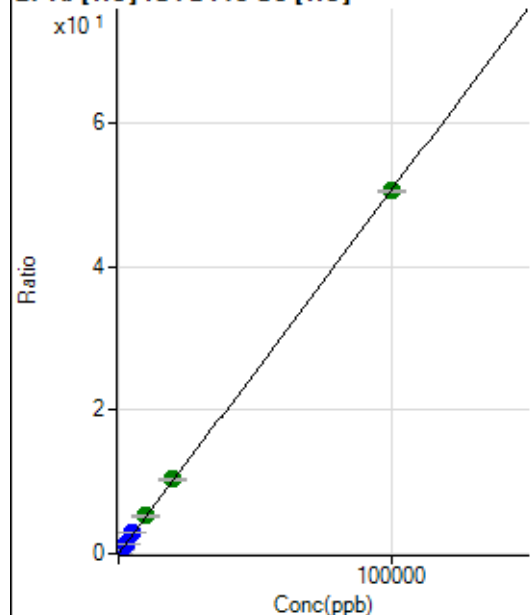
$$R = 1.0000$$

$$DL = 0.3027$$

$$BEC = 0.7899$$

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	223.34	0.0005	P	1.1
2	☐	20.000	20.685	4437.35	0.0110	P	2.0
3	☐	1000.000	1103.580	217702.62	0.5598	P	1.1
4	☐	2500.000	2768.741	526872.12	1.4038	P	1.4
5	☐	5000.000	5859.722	1011001.58	2.9703	P	7.4
6	☐	10000.000	10390.121	1896511.03	5.2663	A	2.9
7	☐	20000.000	20520.199	3682779.25	10.4003	A	3.6
8	☐	100000.00	99806.208	16933796.41	50.5831	A	0.4

$$y = 5.0681\text{E-}004 * x + 5.4776\text{E-}004$$

$$R = 1.0000$$

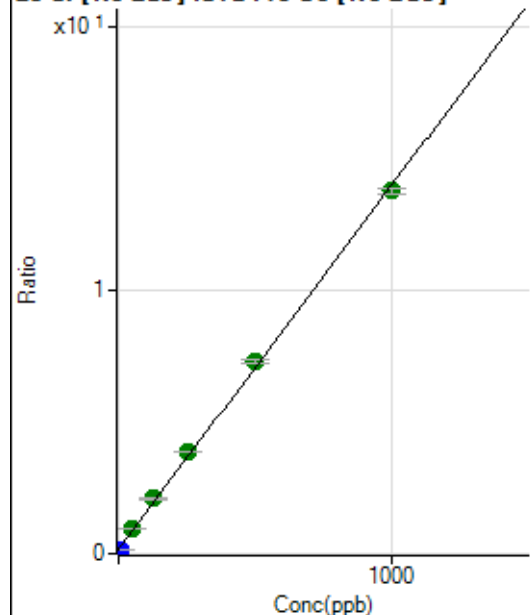
$$DL = 0.03616$$

$$BEC = 1.081$$

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	812460.01	0.1657	P	1.2
2	☐	10.000	0.384	831726.87	0.1710	P	1.7
3	☐	50.000	57.137	4521609.93	0.9547	A	0.6
4	☐	125.000	139.025	9341101.25	2.0854	A	0.6
5	☐	250.000	267.980	16584843.36	3.8661	A	1.1
6	☐	500.000	516.548	30581094.82	7.2985	A	1.5
7	☐	1000.000	985.217	57679029.14	13.7701	A	1.2
8	☐			1472187.97	0.3661	A	5.4

$$y = 0.0138 * x + 0.1657$$

$$R = 0.9994$$

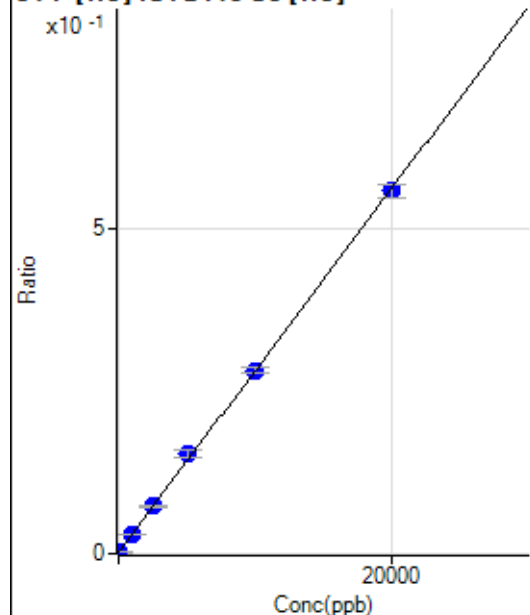
$$DL = 0.4237$$

$$BEC = 12$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-17.007	532.24	0.0013	P	9.8
2	☐	0.000	17.007	906.70	0.0023	P	8.6
3	☐	1000.000	1030.162	11885.82	0.0306	P	0.9
4	☐	2500.000	2529.905	27198.70	0.0725	P	1.7
5	☐	5000.000	5440.748	52368.05	0.1538	P	6.8
6	☐	10000.000	10006.669	101336.91	0.2814	P	2.8
7	☐	20000.000	19881.232	197348.47	0.5573	P	3.5
8	☐			557.80	0.0017	P	5.3

$$y = 2.7942E-005 * x + 0.0018$$

$$R = 0.9997$$

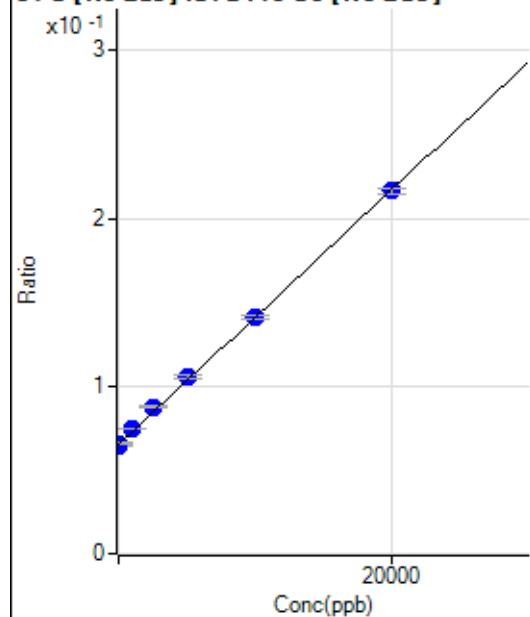
$$DL = 17.32$$

$$BEC = 63.71$$

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	-103.589	315381.46	0.0643	P	0.8
2	☐	0.000	103.589	320508.63	0.0659	P	1.6
3	☐	1000.000	1223.444	352387.72	0.0744	P	0.5
4	☐	2500.000	2958.329	392383.41	0.0876	P	0.6
5	☐	5000.000	5298.200	452108.21	0.1054	P	1.6
6	☐	10000.000	9931.076	589246.20	0.1406	P	1.6
7	☐	20000.000	19891.448	906306.92	0.2164	P	1.8
8	☐			216692.88	0.0539	P	3.1

$$y = 7.6055E-006 * x + 0.0651$$

R = 0.9996

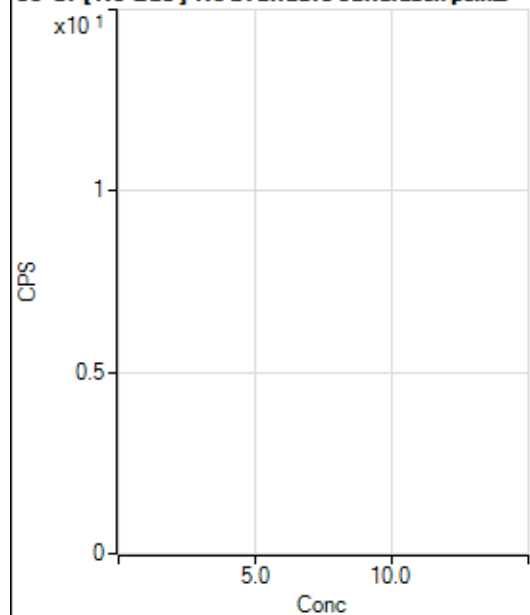
DL = 304.5

BEC = 8559

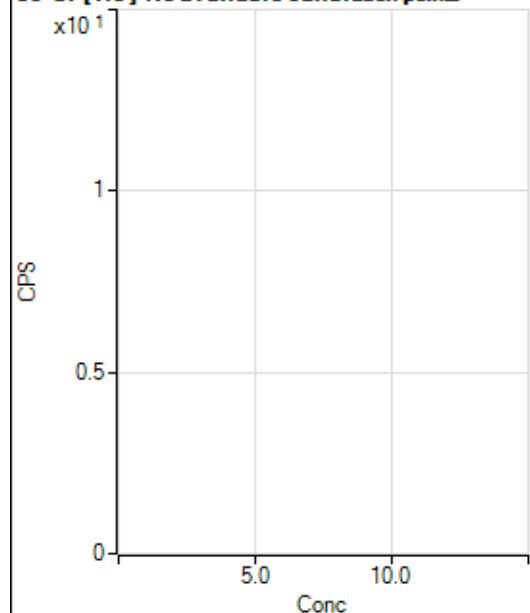
Weight: <None>

Min Conc: 0

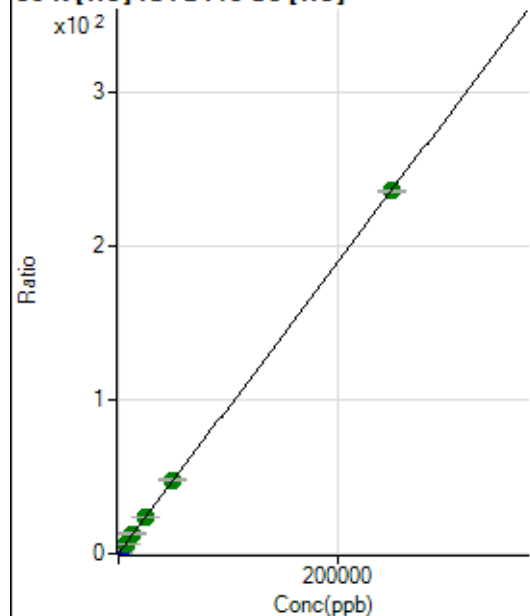
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	65262.38	0.1601	P	0.2
2	☐	500.000	501.795	254600.69	0.6330	P	0.2
3	☐	2500.000	2785.541	1083098.68	2.7854	P	1.2
4	☐	6250.000	6426.833	2333329.81	6.2172	A	1.7
5	☐	12500.000	13625.181	4425229.79	13.0014	A	7.5
6	☐	25000.000	25224.032	8619670.01	23.9330	A	2.3
7	☐	50000.000	50521.890	16919798.50	47.7756	A	3.0
8	☐	250000.00	249809.68	78873287.71	235.5988	A	0.4

$$y = 9.4247\text{E-}004 * x + 0.1601$$

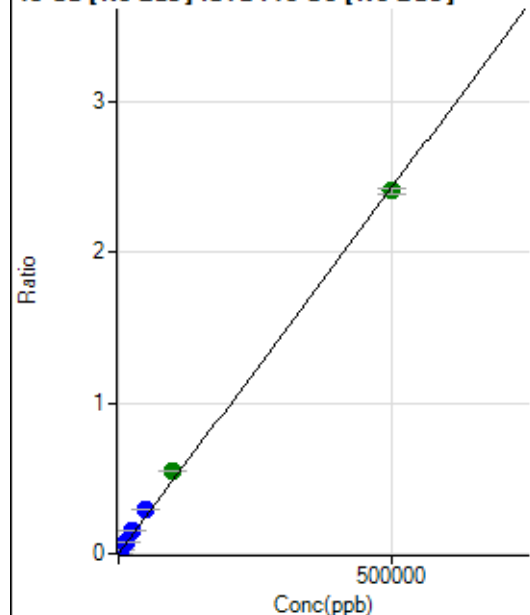
$$R = 1.0000$$

$$DL = 1.27$$

$$BEC = 169.8$$

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	757.81	0.0002	P	7.5
2	☐	500.000	505.596	12677.60	0.0026	P	1.2
3	☐	5000.000	6016.263	138892.80	0.0293	P	0.6
4	☐	12500.000	15234.319	331560.11	0.0740	P	0.6
5	☐	25000.000	30288.436	630673.34	0.1470	P	0.3
6	☐	50000.000	60143.736	1222589.11	0.2918	P	0.4
7	☐	100000.00	113770.50	2311488.92	0.5518	A	0.5
8	☐	500000.00	495888.57	9673839.58	2.4046	A	1.8

$$y = 4.8487E-006 * x + 1.5446E-004$$

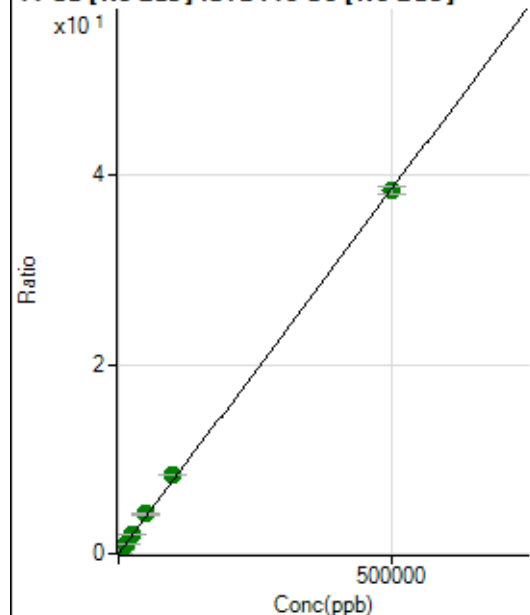
$$R = 0.9995$$

$$DL = 7.148$$

$$BEC = 31.86$$

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	8178.94	0.0017	P	2.4
2	☐	500.000	504.113	197197.53	0.0405	P	0.9
3	☐	5000.000	5442.501	1995338.69	0.4213	A	0.5
4	☐	12500.000	13636.039	4716723.40	1.0530	A	0.2
5	☐	25000.000	27040.479	8950576.26	2.0865	A	0.8
6	☐	50000.000	54194.104	17514904.74	4.1800	A	0.5
7	☐	100000.00	107790.53	34818984.48	8.3122	A	1.0
8	☐	500000.00	497887.63	154431273.2	38.3881	A	2.1

$$y = 7.7099E-005 * x + 0.0017$$

$$R = 0.9999$$

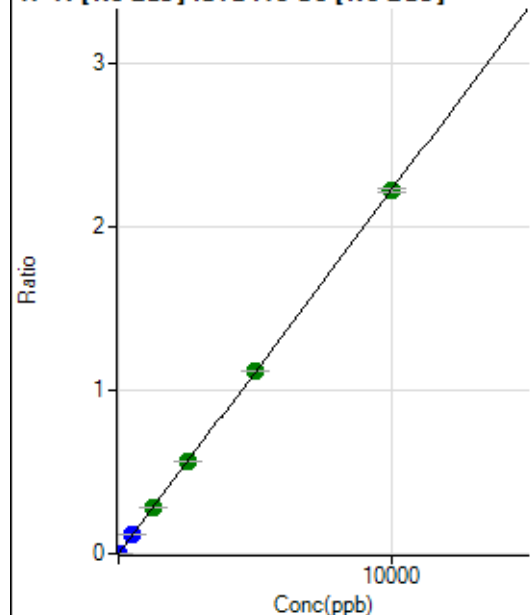
$$DL = 1.583$$

$$BEC = 21.63$$

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	103.33	0.0000	P	9.9
2	☐	5.000	4.839	5334.32	0.0011	P	3.5
3	☐	500.000	513.798	540869.89	0.1142	P	0.4
4	☐	1250.000	1258.078	1252333.11	0.2796	A	1.2
5	☐	2500.000	2522.262	2404592.93	0.5605	A	0.3
6	☐	5000.000	5027.873	4681763.58	1.1173	A	0.7
7	☐	10000.000	9978.798	9288701.25	2.2175	A	1.2
8	☐			1618.99	0.0004	P	12.2

$$y = 2.2222\text{E-}004 * x + 2.1073\text{E-}005$$

$$R = 1.0000$$

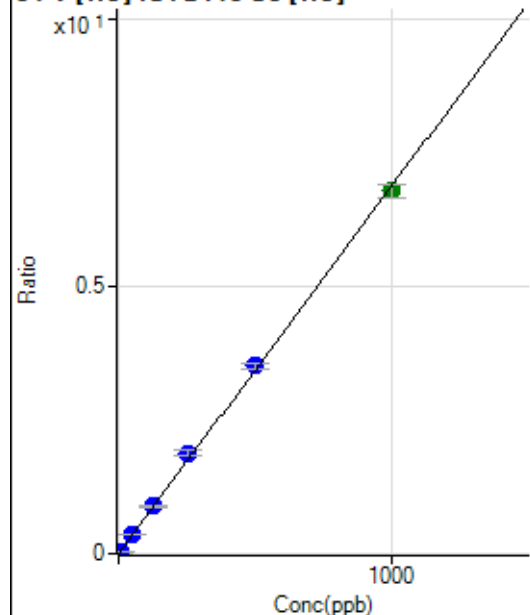
$$DL = 0.02811$$

$$BEC = 0.09483$$

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	2.22	0.0000	P	173.
2	☐	5.000	4.721	13032.38	0.0324	P	1.6
3	☐	50.000	51.699	137963.52	0.3548	P	1.3
4	☐	125.000	129.098	332513.96	0.8859	P	1.4
5	☐	250.000	274.771	641837.48	1.8856	P	7.4
6	☐	500.000	510.766	1262312.81	3.5052	P	2.8
7	☐	1000.000	987.829	2400598.28	6.7790	A	3.4
8	☐			603.35	0.0018	P	1.5

$$y = 0.0069 * x + 5.4419\text{E-}006$$

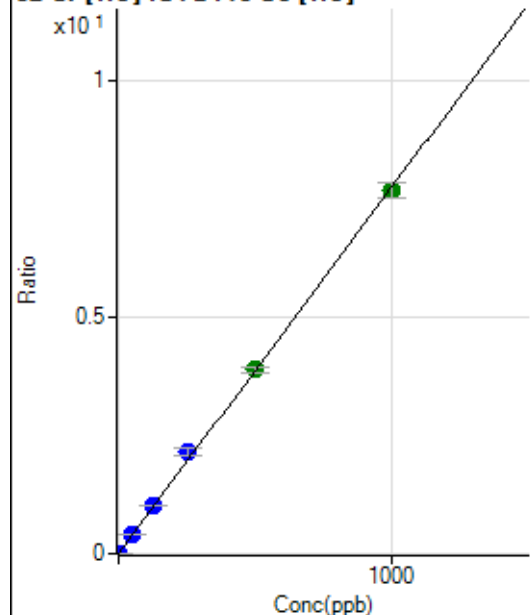
$$R = 0.9996$$

$$DL = 0.00412$$

$$BEC = 0.000793$$

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	1226.73	0.0030	P	1.7
2	☐	2.000	1.882	7072.82	0.0176	P	2.8
3	☐	50.000	52.943	160659.30	0.4132	P	1.6
4	☐	125.000	131.977	384884.83	1.0255	P	0.8
5	☐	250.000	280.034	739466.20	2.1725	P	7.4
6	☐	500.000	501.630	1400668.76	3.8893	A	2.6
7	☐	1000.000	990.657	2718365.03	7.6779	A	4.2
8	☐			7929.93	0.0237	P	3.0

$$y = 0.0077 * x + 0.0030$$

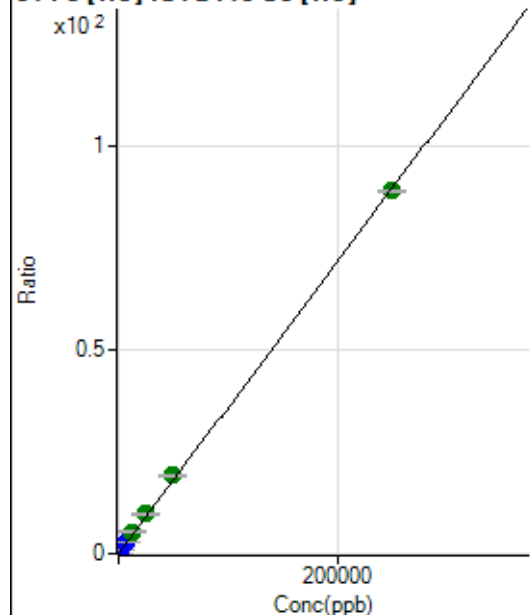
$$R = 0.9995$$

$$DL = 0.01952$$

$$BEC = 0.3884$$

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	1150.06	0.0028	P	6.0
2	☐	50.000	56.939	9308.52	0.0231	P	2.9
3	☐	2500.000	2954.760	411246.47	1.0575	P	0.4
4	☐	6250.000	7391.007	991230.98	2.6410	P	1.1
5	☐	12500.000	14849.103	1805588.67	5.3032	A	6.9
6	☐	25000.000	27240.593	3502935.16	9.7263	A	2.4
7	☐	50000.000	53641.036	6781478.72	19.1499	A	3.2
8	☐	250000.00	248897.20	29742540.39	88.8463	A	0.8

$$y = 3.5695E-004 * x + 0.0028$$

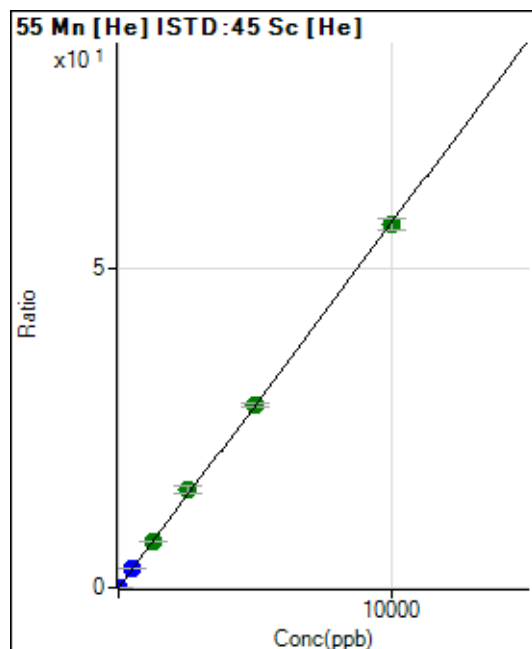
$$R = 0.9999$$

$$DL = 1.421$$

$$BEC = 7.904$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	120.00	0.0003	P	12.0
2	☐	1.000	0.991	2402.44	0.0060	P	1.0
3	☐	500.000	528.603	1178045.22	3.0295	P	0.9
4	☐	1250.000	1273.398	2738918.19	7.2975	A	1.5
5	☐	2500.000	2709.716	5284544.16	15.5283	A	7.8
6	☐	5000.000	4999.110	10318118.60	28.6477	A	2.2
7	☐	10000.000	9943.661	20179077.48	56.9825	A	3.3
8	☐			10668.31	0.0319	P	1.2

$$y = 0.0057 * x + 2.9415E-004$$

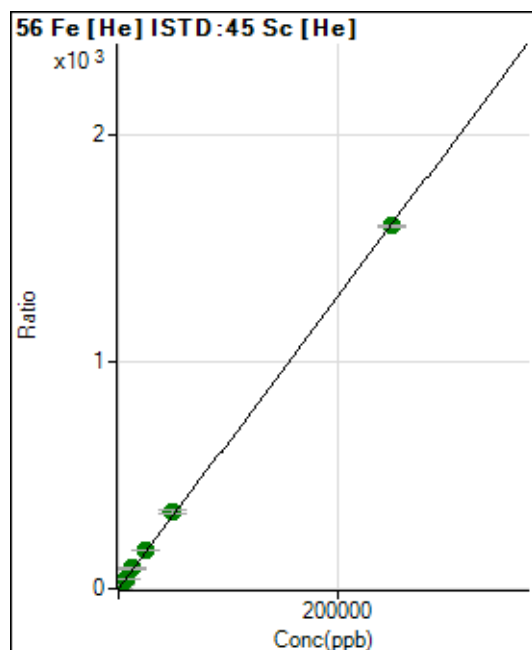
$$R = 0.9998$$

$$DL = 0.01845$$

$$BEC = 0.05133$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6843.84	0.0168	P	1.8
2	☐	50.000	53.480	145039.08	0.3606	P	1.2
3	☐	2500.000	2707.827	6776544.35	17.4264	A	1.0
4	☐	6250.000	6737.258	16263546.84	43.3330	A	1.3
5	☐	12500.000	14319.511	31341141.48	92.0820	A	7.5
6	☐	25000.000	26532.911	61442944.64	170.6063	A	2.6
7	☐	50000.000	53079.645	120852333.7	341.2847	A	3.5
8	☐	250000.00	249125.54	536222920.9	1,601.733	A	0.3

$$y = 0.0064 * x + 0.0168$$

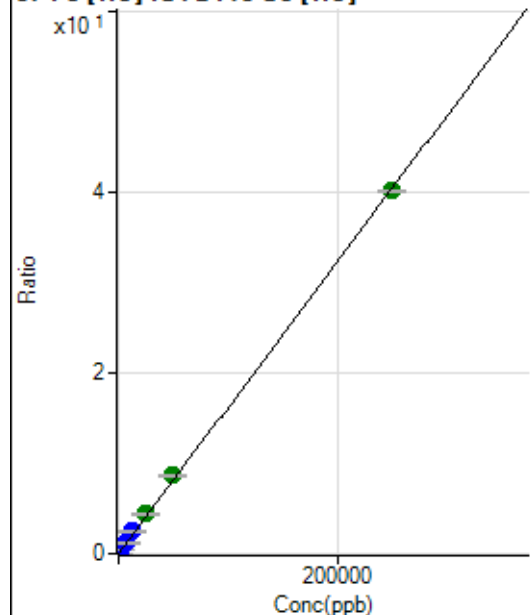
$$R = 0.9999$$

$$DL = 0.1412$$

$$BEC = 2.611$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	928.92	0.0023	P	3.1
2	☐	50.000	54.242	4429.59	0.0110	P	0.9
3	☐	2500.000	2903.105	182670.37	0.4697	P	0.7
4	☐	6250.000	7271.866	440292.56	1.1732	P	2.0
5	☐	12500.000	15534.169	852362.91	2.5036	P	7.0
6	☐	25000.000	27081.209	1571483.57	4.3630	A	1.8
7	☐	50000.000	53586.282	3056975.96	8.6309	A	2.4
8	☐	250000.00	248893.33	13417408.41	40.0799	A	0.7

$$y = 1.6102\text{E-}004 * x + 0.0023$$

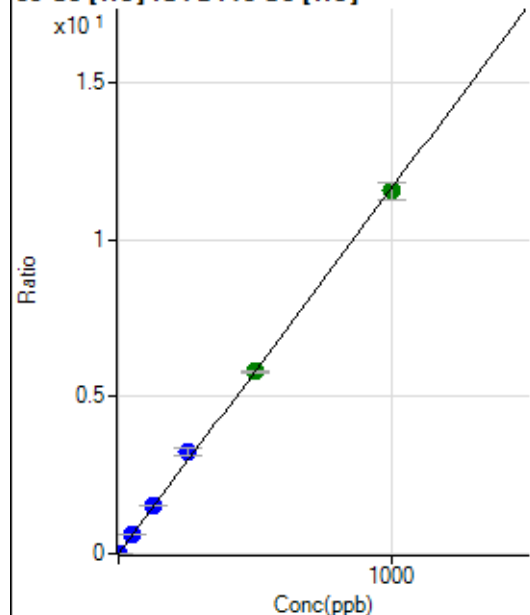
R = 0.9998

DL = 1.316

BEC = 14.15

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.11	0.0002	P	18.4
2	☐	1.000	0.992	4695.22	0.0117	P	1.0
3	☐	50.000	52.986	239490.40	0.6159	P	0.8
4	☐	125.000	131.981	575672.39	1.5338	P	1.0
5	☐	250.000	278.288	1101016.00	3.2340	P	7.0
6	☐	500.000	497.485	2082382.43	5.7811	A	1.7
7	☐	1000.000	993.164	4085668.17	11.5411	A	4.8
8	☐			11572.32	0.0346	P	3.4

$$y = 0.0116 * x + 1.5003\text{E-}004$$

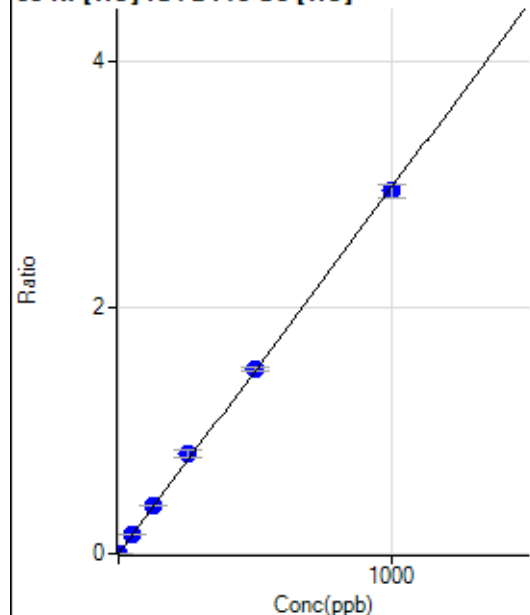
R = 0.9995

DL = 0.007122

BEC = 0.01291

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	95.55	0.0002	P	16.2
2	☐	1.000	0.988	1274.51	0.0032	P	3.6
3	☐	50.000	53.151	61498.73	0.1582	P	1.2
4	☐	125.000	130.064	145129.65	0.3867	P	0.8
5	☐	250.000	273.482	276619.92	0.8128	P	7.7
6	☐	500.000	505.094	540589.92	1.5009	P	2.1
7	☐	1000.000	990.792	1042465.71	2.9440	P	3.6
8	☐			3391.54	0.0101	P	2.6

$$y = 0.0030 * x + 2.3428E-004$$

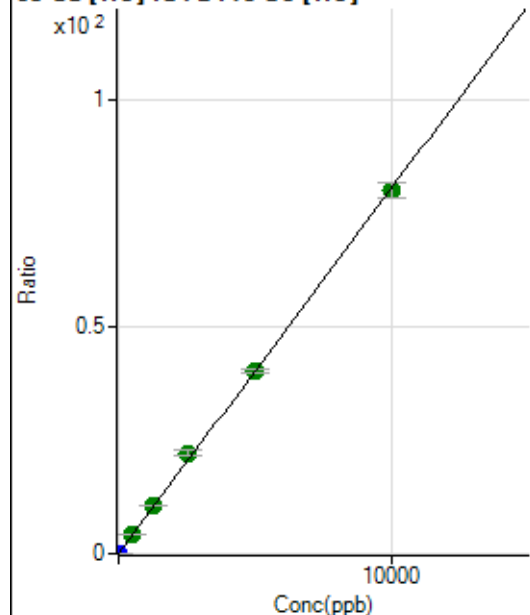
$$R = 0.9997$$

$$DL = 0.03827$$

$$BEC = 0.07885$$

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	4506.27	0.0111	P	4.3
2	☐	2.000	1.902	10594.95	0.0263	P	1.3
3	☐	500.000	528.902	1657294.13	4.2618	A	0.9
4	☐	1250.000	1305.911	3943242.82	10.5066	A	1.4
5	☐	2500.000	2756.525	7546247.25	22.1652	A	6.9
6	☐	5000.000	4998.608	14473256.87	40.1847	A	2.1
7	☐	10000.000	9928.131	28254437.91	79.8032	A	4.2
8	☐			9048.36	0.0270	P	7.8

$$y = 0.0080 * x + 0.0111$$

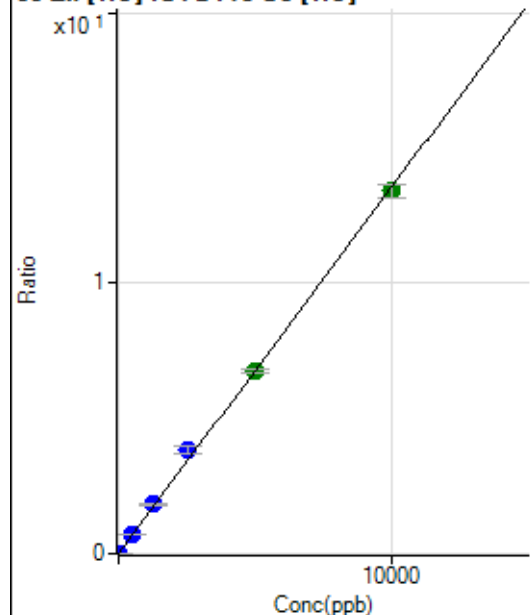
$$R = 0.9996$$

$$DL = 0.1785$$

$$BEC = 1.375$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	727.80	0.0018	P	3.7
2	☐	5.000	4.075	2939.20	0.0073	P	5.3
3	☐	500.000	540.516	285551.58	0.7344	P	1.5
4	☐	1250.000	1339.451	681939.24	1.8172	P	2.3
5	☐	2500.000	2852.388	1316551.16	3.8677	P	7.3
6	☐	5000.000	4992.110	2437565.90	6.7676	A	1.9
7	☐	10000.000	9902.641	4752765.49	13.4229	A	3.9
8	☐			4354.01	0.0130	P	3.3

$$y = 0.0014 * x + 0.0018$$

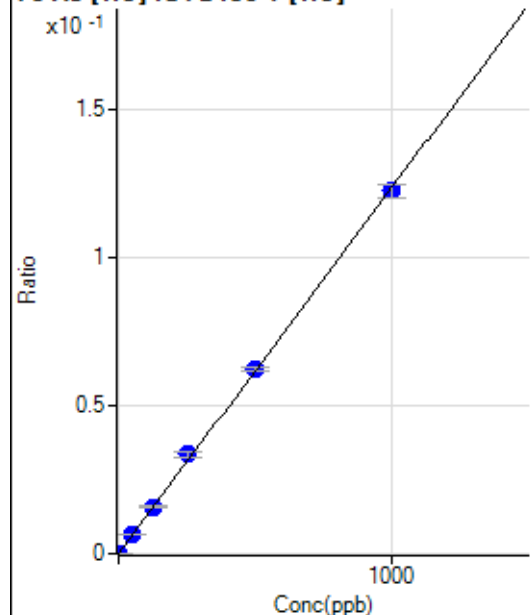
$$R = 0.9993$$

$$DL = 0.1469$$

$$BEC = 1.317$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	1.000	0.977	348.90	0.0001	P	20.1
3	☐	50.000	51.732	18032.18	0.0064	P	2.2
4	☐	125.000	128.654	42899.57	0.0159	P	1.5
5	☐	250.000	271.548	83654.04	0.0335	P	7.1
6	☐	500.000	503.683	164125.90	0.0621	P	1.8
7	☐	1000.000	992.228	320489.75	0.1223	P	3.6
8	☐			123.33	0.0001	P	10.8

$$y = 1.2331E-004 * x + 3.8118E-007$$

$$R = 0.9997$$

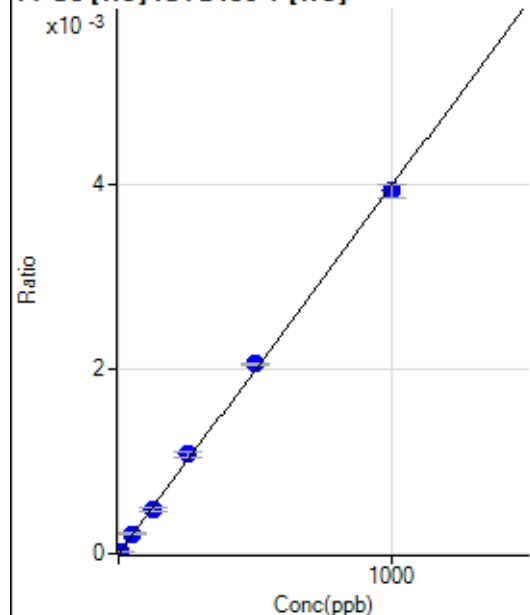
$$DL = 0.01606$$

$$BEC = 0.003091$$

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	0.00	0.0000	P	
2	☐	5.000	5.127	58.89	0.0000	P	18.5
3	☐	50.000	53.967	606.68	0.0002	P	7.1
4	☐	125.000	120.664	1297.85	0.0005	P	7.9
5	☐	250.000	270.608	2690.27	0.0011	P	6.2
6	☐	500.000	516.718	5432.15	0.0021	P	1.2
7	☐	1000.000	986.832	10283.63	0.0039	P	3.6
8	☐			45.56	0.0000	P	30.3

$$y = 3.9778\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

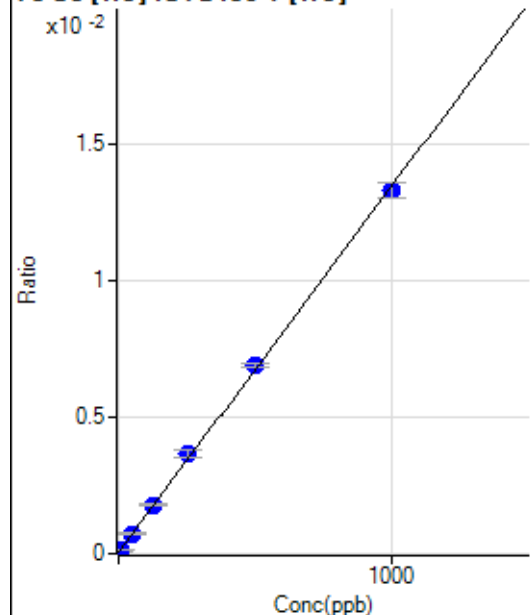
$$DL = 0$$

$$BEC = 0$$

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	131.11	0.0000	P	12.0
2	☐	5.000	5.132	328.90	0.0001	P	8.5
3	☐	50.000	51.339	2072.39	0.0007	P	8.5
4	☐	125.000	130.200	4841.96	0.0018	P	0.6
5	☐	250.000	270.408	9170.70	0.0037	P	6.6
6	☐	500.000	512.905	18291.38	0.0069	P	2.5
7	☐	1000.000	987.728	34798.66	0.0133	P	4.4
8	☐			297.78	0.0001	P	13.6

$$y = 1.3406\text{E-}005 * x + 4.5054\text{E-}005$$

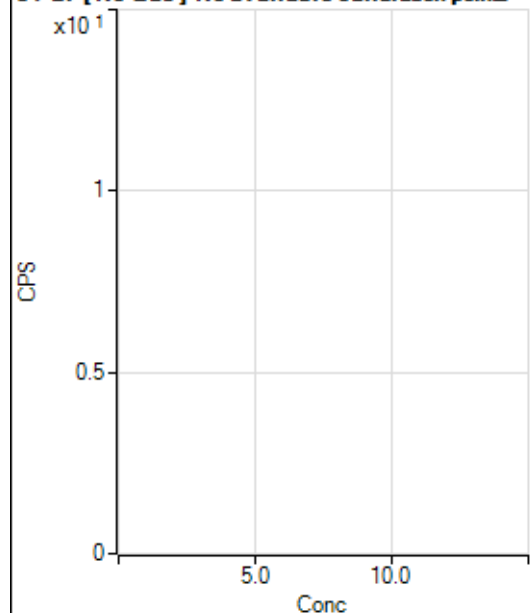
$$R = 0.9996$$

$$DL = 1.215$$

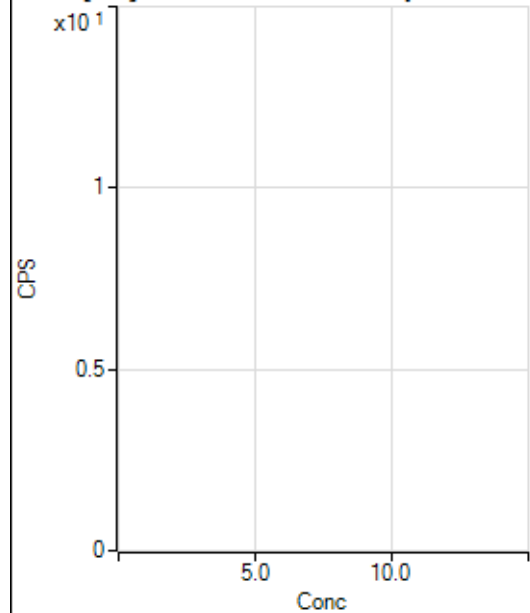
$$BEC = 3.361$$

Weight: <None>

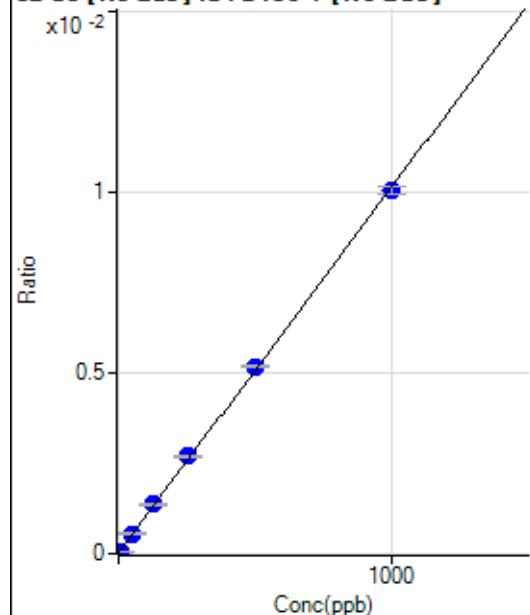
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9208.51		P	0.7
2	☐			9334.15		P	1.6
3	☐			8570.33		P	0.7
4	☐			8264.60		P	1.0
5	☐			8121.20		P	2.1
6	☐			8072.29		P	0.8
7	☐			8201.24		P	3.5
8	☐			10994.20		P	7.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	4.8
2	☐			83.33		P	18.3
3	☐			85.56		P	22.5
4	☐			71.11		P	9.8
5	☐			81.11		P	39.5
6	☐			96.67		P	21.0
7	☐			91.11		P	9.2
8	☐			693.36		P	6.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	292.23	0.0000	P	3.4
2	☐	5.000	4.466	878.31	0.0001	P	5.7
3	☐	50.000	52.851	7111.60	0.0006	P	2.5
4	☐	125.000	132.885	16846.08	0.0014	P	2.1
5	☐	250.000	263.789	32020.68	0.0027	P	0.9
6	☐	500.000	510.495	61953.01	0.0052	P	1.3
7	☐	1000.000	990.180	120309.90	0.0100	P	2.0
8	☐			874.44	0.0001	P	3.4

$$y = 1.0111\text{E-}005 * x + 2.2249\text{E-}005$$

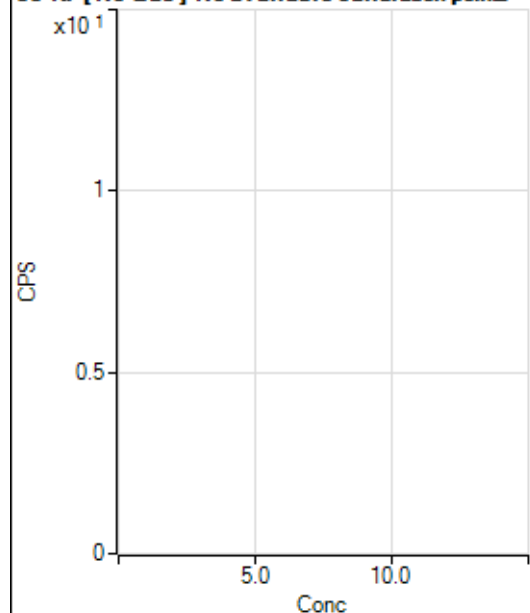
$$R = 0.9998$$

$$DL = 0.2222$$

$$BEC = 2.2$$

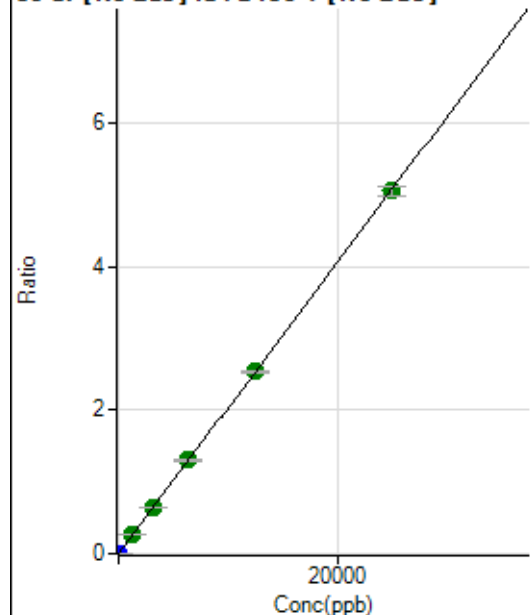
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			141.11		P	5.5
2	☐			126.67		P	14.7
3	☐			173.34		P	10.7
4	☐			145.56		P	18.4
5	☐			140.00		P	10.4
6	☐			133.34		P	2.5
7	☐			151.12		P	20.0
8	☐			151.12		P	13.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	257.78	0.0000	P	16.3
2	☐	1.000	0.942	2743.62	0.0002	P	4.8
3	☐	1250.000	1270.853	3291204.64	0.2576	A	2.3
4	☐	3125.000	3191.418	7976596.27	0.6467	A	1.2
5	☐	6250.000	6423.557	15498187.55	1.3017	A	0.4
6	☐	12500.000	12508.647	30293185.10	2.5348	A	1.4
7	☐	25000.000	24942.942	60602036.87	5.0546	A	2.9
8	☐			8947.30	0.0008	P	16.6

$$y = 2.0264\text{E-}004 * x + 1.9644\text{E-}005$$

$$R = 1.0000$$

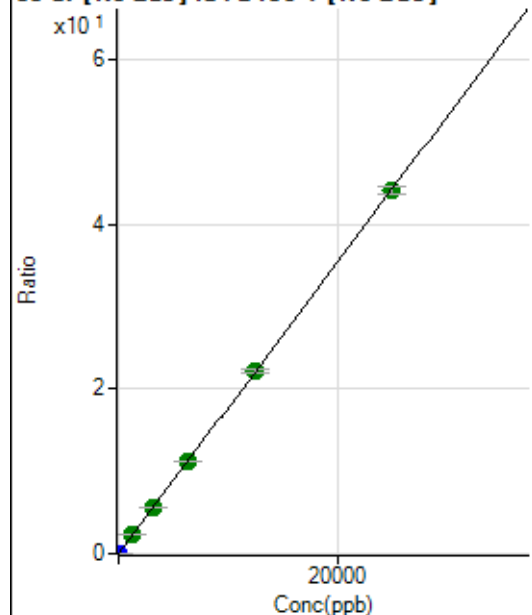
$$DL = 0.0474$$

$$BEC = 0.09694$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0000	P	20.3
2	☐	1.000	0.936	21761.74	0.0017	P	0.7
3	☐	1250.000	1265.906	28621582.91	2.2396	A	0.3
4	☐	3125.000	3177.714	69339216.19	5.6220	A	0.8
5	☐	6250.000	6384.707	134487101.3	11.2958	A	0.8
6	☐	12500.000	12538.874	265112540.5	22.1837	A	1.4
7	☐	25000.000	24939.502	529051583.2	44.1228	A	2.1
8	☐			76331.62	0.0070	P	14.1

$$y = 0.0018 * x + 1.4893\text{E-}005$$

$$R = 1.0000$$

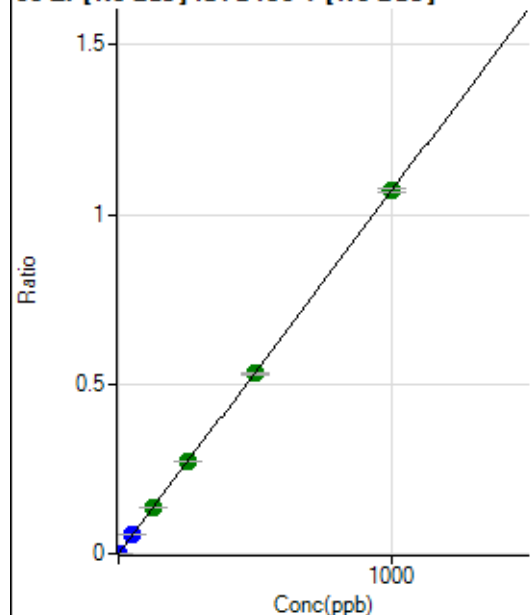
$$DL = 0.005136$$

$$BEC = 0.008418$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	512.24	0.0000	P	7.0
2	☐	1.000	0.915	13247.18	0.0010	P	0.4
3	☐	50.000	51.778	707801.28	0.0554	P	1.8
4	☐	125.000	127.888	1686854.02	0.1368	A	0.5
5	☐	250.000	253.893	3232242.38	0.2715	A	0.8
6	☐	500.000	497.365	6355368.03	0.5318	A	1.3
7	☐	1000.000	999.895	12820318.70	1.0690	A	1.1
8	☐			6233.60	0.0006	P	4.5

$$y = 0.0011 * x + 3.8996E-005$$

$$R = 1.0000$$

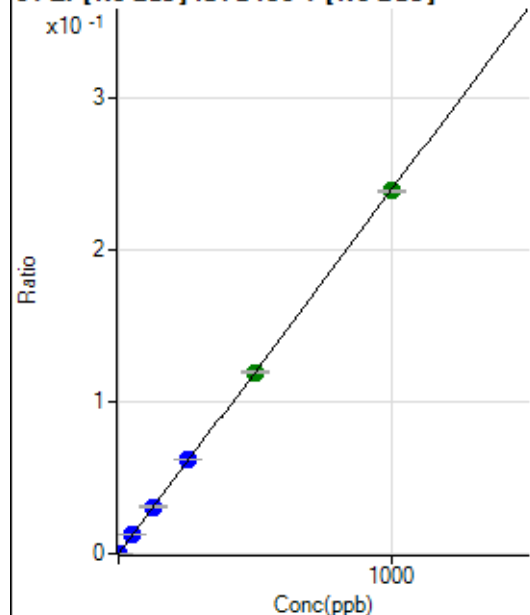
$$DL = 0.007639$$

$$BEC = 0.03647$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.55	0.0000	P	14.9
2	☐	1.000	0.923	2969.22	0.0002	P	3.2
3	☐	50.000	51.799	158817.67	0.0124	P	2.0
4	☐	125.000	129.167	382173.72	0.0310	P	0.6
5	☐	250.000	259.738	741760.33	0.0623	P	0.8
6	☐	500.000	499.163	1430886.34	0.1197	A	0.5
7	☐	1000.000	997.373	2868898.43	0.2392	A	0.7
8	☐			1306.74	0.0001	P	7.4

$$y = 2.3984E-004 * x + 6.5093E-006$$

$$R = 0.9999$$

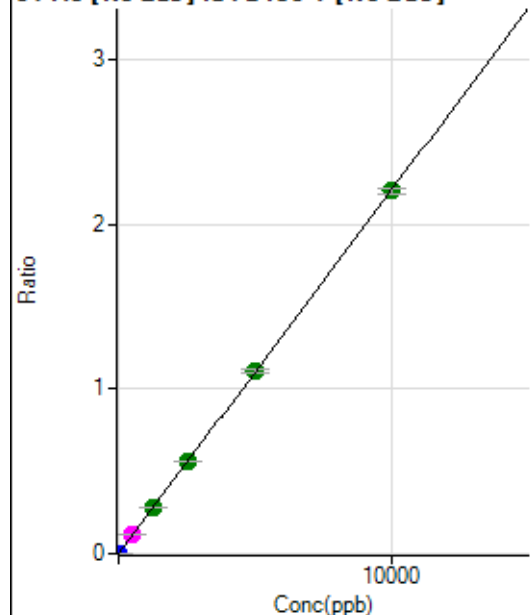
$$DL = 0.01211$$

$$BEC = 0.02714$$

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	154.45	0.0000	P	5.4
2	☐	5.000	5.403	15679.59	0.0012	P	1.5
3	☐	500.000	513.587	1447507.57	0.1133	M	2.1
4	☐	1250.000	1279.892	3481876.44	0.2823	A	1.0
5	☐	2500.000	2548.719	6693079.34	0.5622	A	0.5
6	☐	5000.000	5010.573	13207149.52	1.1052	A	1.8
7	☐	10000.000	9978.118	26390694.05	2.2008	A	1.5
8	☐			6587.11	0.0006	P	8.0

$$y = 2.2056\text{E-}004 * x + 1.1758\text{E-}005$$

$$R = 1.0000$$

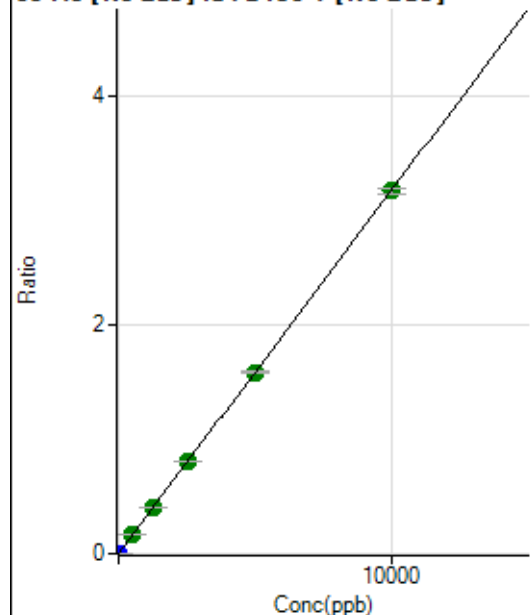
$$DL = 0.008671$$

$$BEC = 0.05331$$

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	31.11	0.0000	P	22.7
2	☐	5.000	4.588	19000.20	0.0015	P	0.4
3	☐	500.000	515.300	2089140.07	0.1635	A	2.8
4	☐	1250.000	1278.512	5003992.57	0.4057	A	1.1
5	☐	2500.000	2557.412	9662429.30	0.8116	A	0.7
6	☐	5000.000	4991.020	18927893.05	1.5838	A	1.6
7	☐	10000.000	9985.808	37996793.05	3.1689	A	1.8
8	☐			7666.51	0.0007	P	2.1

$$y = 3.1734\text{E-}004 * x + 2.3704\text{E-}006$$

$$R = 1.0000$$

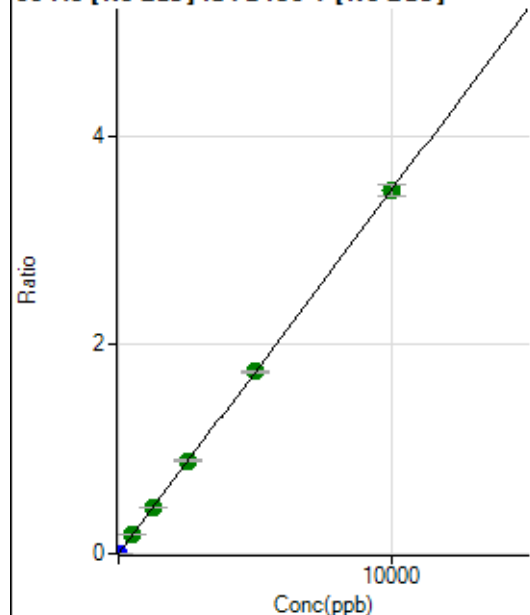
$$DL = 0.005088$$

$$BEC = 0.00747$$

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	76.67	0.0000	P	22.3
2	☐	5.000	4.552	20698.06	0.0016	P	2.0
3	☐	500.000	510.456	2268280.59	0.1775	A	1.1
4	☐	1250.000	1276.113	5473237.84	0.4438	A	0.1
5	☐	2500.000	2562.620	10609657.55	0.8911	A	0.7
6	☐	5000.000	4999.825	20778461.36	1.7386	A	1.0
7	☐	10000.000	9980.646	41609289.66	3.4706	A	3.0
8	☐			12303.08	0.0011	P	8.6

$$y = 3.4774\text{E-}004 * x + 5.8332\text{E-}006$$

$$R = 1.0000$$

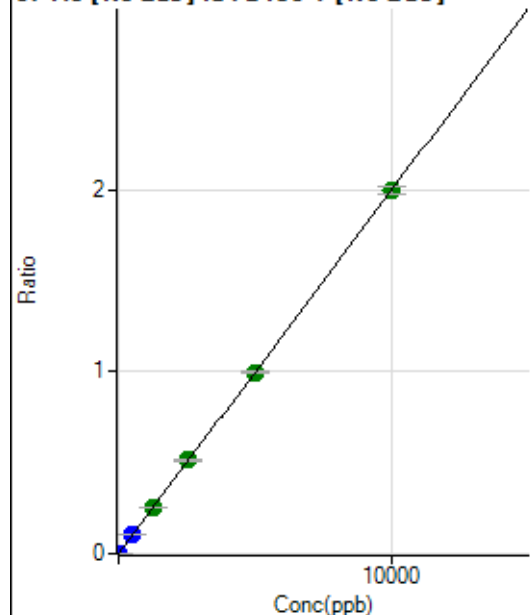
$$DL = 0.01124$$

$$BEC = 0.01677$$

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	32.22	0.0000	P	26.9
2	☐	5.000	4.544	11870.46	0.0009	P	0.8
3	☐	500.000	525.329	1342264.16	0.1051	P	1.8
4	☐	1250.000	1275.381	3145611.38	0.2550	A	0.7
5	☐	2500.000	2572.046	6123590.60	0.5143	A	1.4
6	☐	5000.000	4992.124	11930150.79	0.9983	A	1.4
7	☐	10000.000	9981.488	23932612.15	1.9960	A	2.3
8	☐			4520.75	0.0004	P	10.7

$$y = 1.9997\text{E-}004 * x + 2.4575\text{E-}006$$

$$R = 1.0000$$

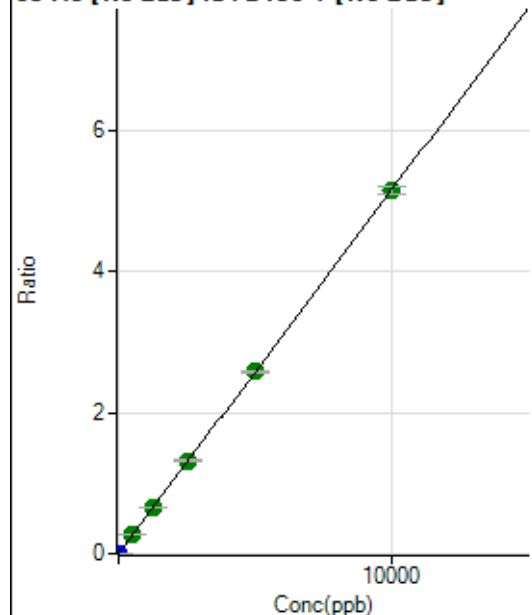
$$DL = 0.009908$$

$$BEC = 0.01229$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.89	0.0000	P	19.4
2	☐	5.000	4.524	30386.03	0.0023	P	0.3
3	☐	500.000	512.819	3371632.21	0.2639	A	1.9
4	☐	1250.000	1274.320	8087730.09	0.6557	A	0.5
5	☐	2500.000	2559.972	15683355.04	1.3173	A	0.5
6	☐	5000.000	5005.035	30777829.82	2.5754	A	1.5
7	☐	10000.000	9978.809	61567729.64	5.1347	A	2.1
8	☐			11270.06	0.0010	P	12.8

$$y = 5.1456\text{E-}004 * x + 4.4811\text{E-}006$$

$$R = 1.0000$$

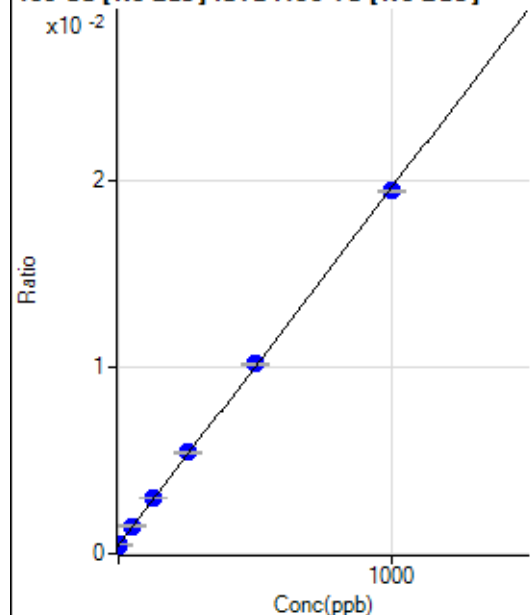
$$DL = 0.00506$$

$$BEC = 0.008708$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5204.31	0.0005	P	1.3
2	☐	1.000	2.257	5718.96	0.0005	P	3.4
3	☐	50.000	54.220	17122.42	0.0015	P	2.0
4	☐	125.000	134.388	33768.16	0.0030	P	0.6
5	☐	250.000	260.889	60001.00	0.0054	P	1.7
6	☐	500.000	508.117	112306.47	0.0102	P	0.8
7	☐	1000.000	991.834	213515.30	0.0194	P	0.3
8	☐			4547.42	0.0005	P	1.7

$$y = 1.9112\text{E-}005 * x + 4.5511\text{E-}004$$

$$R = 0.9999$$

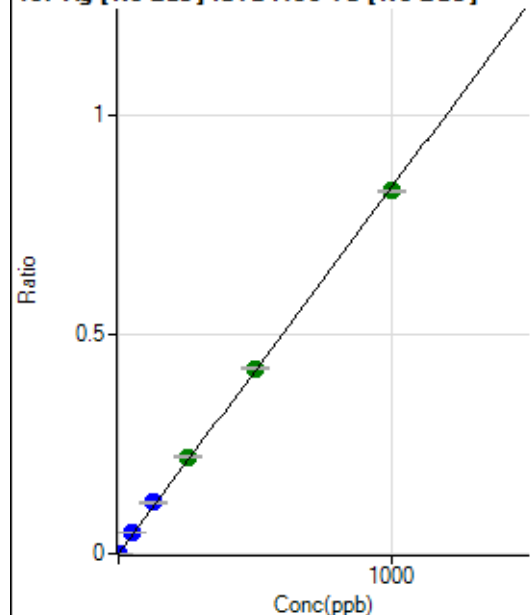
$$DL = 0.9033$$

$$BEC = 23.81$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	7.9
2	☐	1.000	1.001	9713.32	0.0008	P	3.0
3	☐	50.000	56.359	540621.15	0.0471	P	1.1
4	☐	125.000	139.225	1298993.41	0.1163	P	0.7
5	☐	250.000	265.103	2442209.13	0.2215	A	0.9
6	☐	500.000	506.487	4674035.45	0.4231	A	1.1
7	☐	1000.000	990.885	9104873.27	0.8277	A	0.7
8	☐			2463.57	0.0003	P	5.4

$$y = 8.3535E-004 * x + 9.7185E-006$$

$$R = 0.9998$$

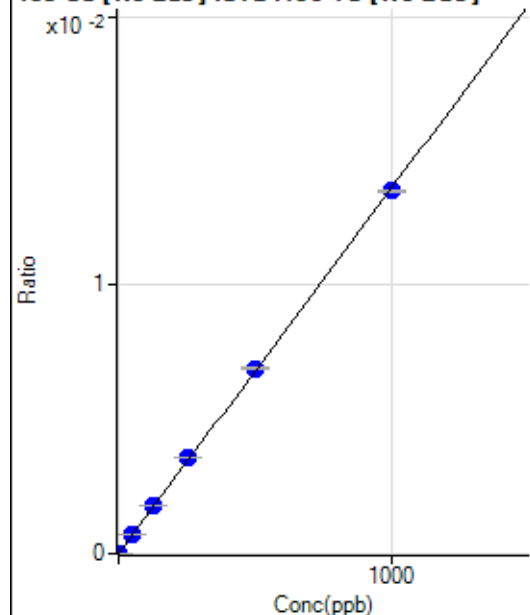
$$DL = 0.002767$$

$$BEC = 0.01163$$

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	10.00	0.0000	P	66.3
2	☐	1.000	1.016	168.89	0.0000	P	5.7
3	☐	50.000	53.717	8411.40	0.0007	P	1.8
4	☐	125.000	133.545	20327.64	0.0018	P	0.7
5	☐	250.000	263.221	39551.62	0.0036	P	0.6
6	☐	500.000	505.593	76095.80	0.0069	P	1.0
7	☐	1000.000	992.644	148750.06	0.0135	P	0.6
8	☐			128.89	0.0000	P	20.2

$$y = 1.3622E-005 * x + 8.7292E-007$$

$$R = 0.9999$$

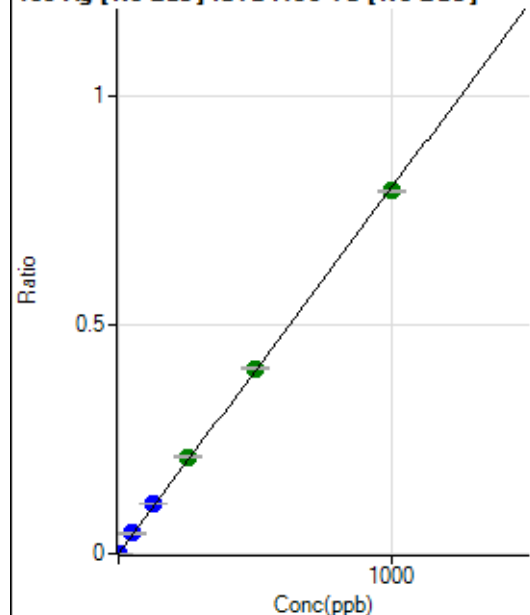
$$DL = 0.1275$$

$$BEC = 0.06408$$

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	55.56	0.0000	P	32.5
2	☐	1.000	1.015	9383.10	0.0008	P	0.9
3	☐	50.000	55.221	507559.27	0.0442	P	0.6
4	☐	125.000	138.255	1236031.95	0.1107	P	0.7
5	☐	250.000	264.992	2339300.10	0.2121	A	0.5
6	☐	500.000	505.680	4471808.82	0.4048	A	0.9
7	☐	1000.000	991.494	8730419.94	0.7937	A	0.5
8	☐			2395.78	0.0002	P	11.3

$$y = 8.0049\text{E-}004 * x + 4.8535\text{E-}006$$

$$R = 0.9998$$

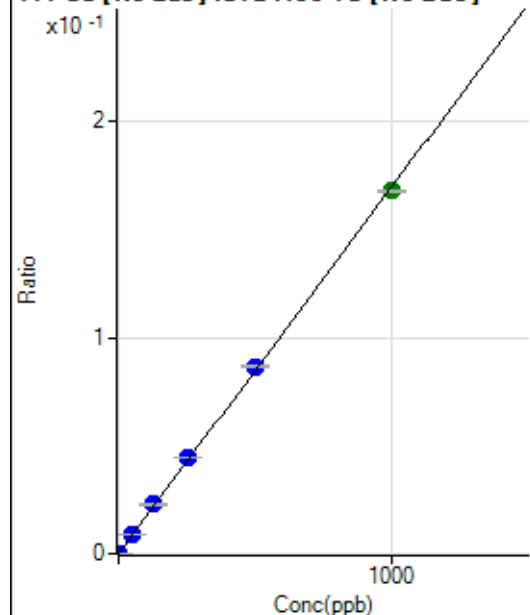
$$DL = 0.005916$$

$$BEC = 0.006063$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	516.76	0.0000	P	1.7
2	☐	1.000	1.080	2619.42	0.0002	P	2.6
3	☐	50.000	53.619	104851.89	0.0091	P	0.9
4	☐	125.000	134.495	255065.73	0.0228	P	1.5
5	☐	250.000	262.271	490670.13	0.0445	P	1.3
6	☐	500.000	510.823	956908.05	0.0866	P	0.9
7	☐	1000.000	990.153	1846378.50	0.1679	A	0.6
8	☐			1437.90	0.0001	P	3.3

$$y = 1.6948\text{E-}004 * x + 4.5192\text{E-}005$$

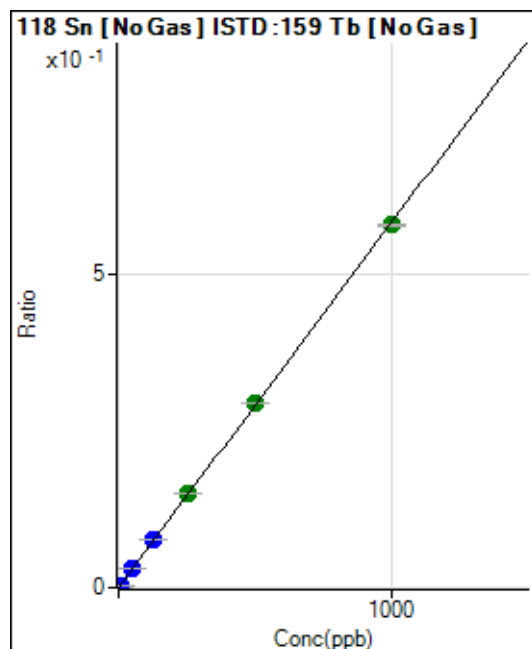
$$R = 0.9998$$

$$DL = 0.01366$$

$$BEC = 0.2666$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1066.72	0.0001	P	12.1
2	☐	5.000	4.846	33441.00	0.0029	P	1.9
3	☐	50.000	52.223	350047.12	0.0305	P	0.8
4	☐	125.000	131.255	854253.22	0.0765	P	0.5
5	☐	250.000	257.672	1654929.80	0.1501	A	0.9
6	☐	500.000	507.078	3261668.15	0.2952	A	0.4
7	☐	1000.000	993.651	6362995.18	0.5784	A	0.4
8	☐			4277.34	0.0004	P	4.9

$$y = 5.8205\text{E-}004 * x + 9.3253\text{E-}005$$

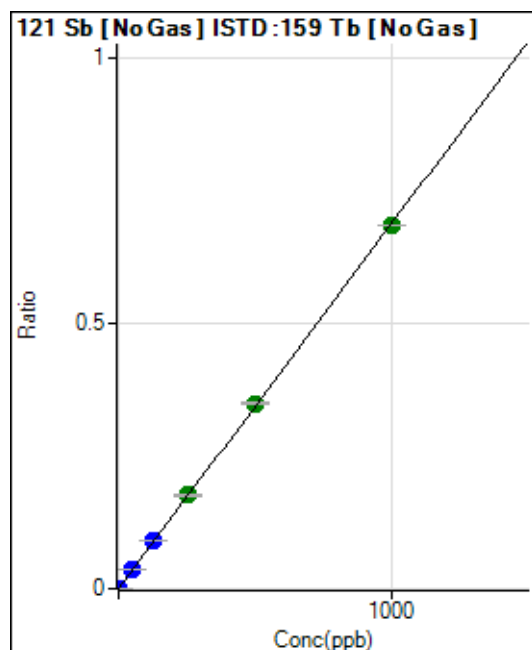
$$R = 0.9999$$

$$DL = 0.05807$$

$$BEC = 0.1602$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0000	P	17.8
2	☐	2.000	1.924	15232.60	0.0013	P	1.9
3	☐	50.000	51.747	408859.93	0.0356	P	0.4
4	☐	125.000	129.909	998354.48	0.0894	P	1.1
5	☐	250.000	255.860	1941595.04	0.1761	A	0.7
6	☐	500.000	507.713	3859618.21	0.3494	A	0.8
7	☐	1000.000	993.978	7523736.21	0.6840	A	0.1
8	☐			6487.06	0.0007	P	3.5

$$y = 6.8813\text{E-}004 * x + 3.2049\text{E-}006$$

$$R = 0.9999$$

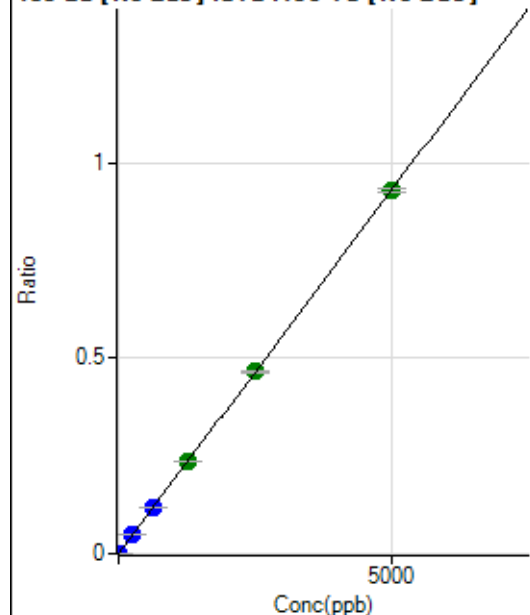
$$DL = 0.002481$$

$$BEC = 0.004657$$

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	26.66	0.0000	P	21.1
2	☐	10.000	9.273	19836.09	0.0017	P	1.6
3	☐	250.000	252.875	540406.05	0.0471	P	0.5
4	☐	625.000	634.118	1318174.02	0.1180	P	0.4
5	☐	1250.000	1269.498	2605737.15	0.2363	A	0.5
6	☐	2500.000	2506.218	5153318.92	0.4665	A	0.7
7	☐	5000.000	4990.734	10217853.94	0.9289	A	1.0
8	☐			5354.39	0.0005	P	4.4

$$y = 1.8613E-004 * x + 2.3302E-006$$

$$R = 1.0000$$

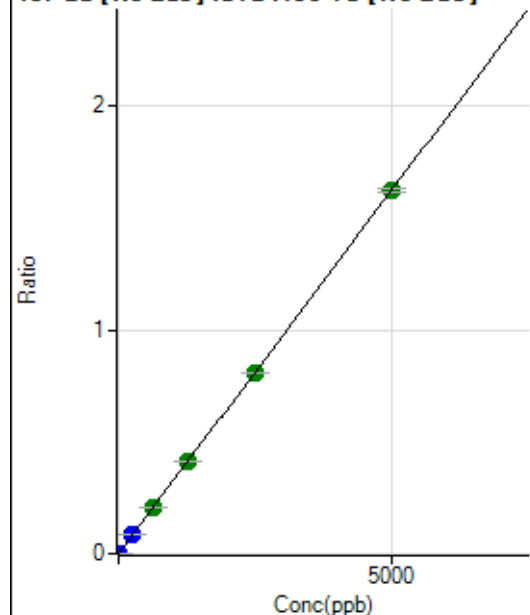
$$DL = 0.00794$$

$$BEC = 0.01252$$

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	42.22	0.0000	P	40.2
2	☐	10.000	9.321	34776.90	0.0030	P	0.8
3	☐	250.000	253.004	943137.19	0.0821	P	0.7
4	☐	625.000	640.672	2322919.74	0.2080	A	2.0
5	☐	1250.000	1277.022	4572317.16	0.4146	A	0.6
6	☐	2500.000	2493.994	8945779.66	0.8097	A	0.2
7	☐	5000.000	4994.140	17836400.84	1.6215	A	0.9
8	☐			9249.75	0.0009	P	2.9

$$y = 3.2468E-004 * x + 3.6891E-006$$

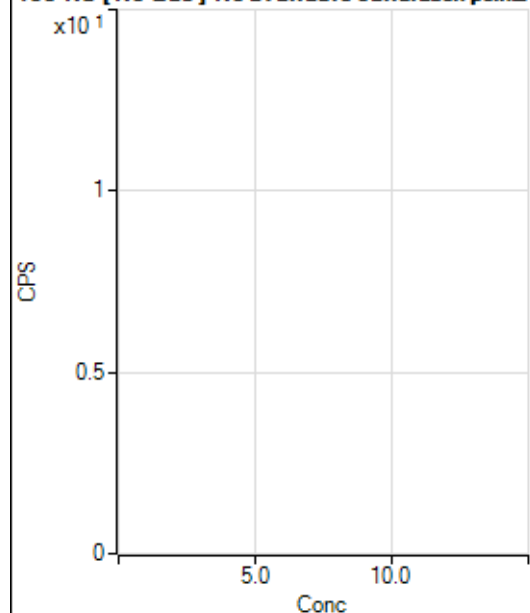
$$R = 1.0000$$

$$DL = 0.01371$$

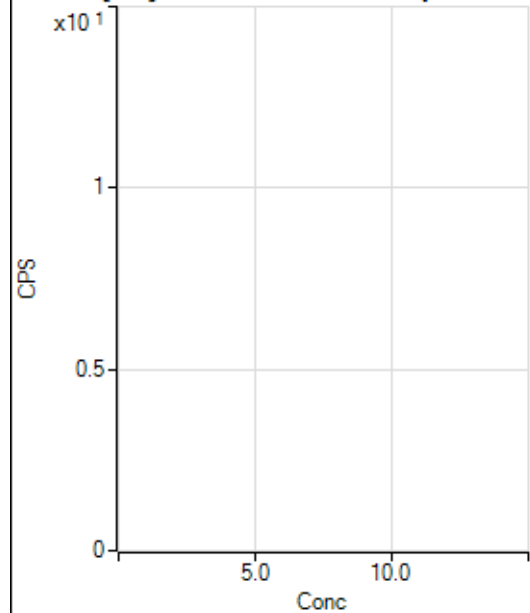
$$BEC = 0.01136$$

Weight: <None>

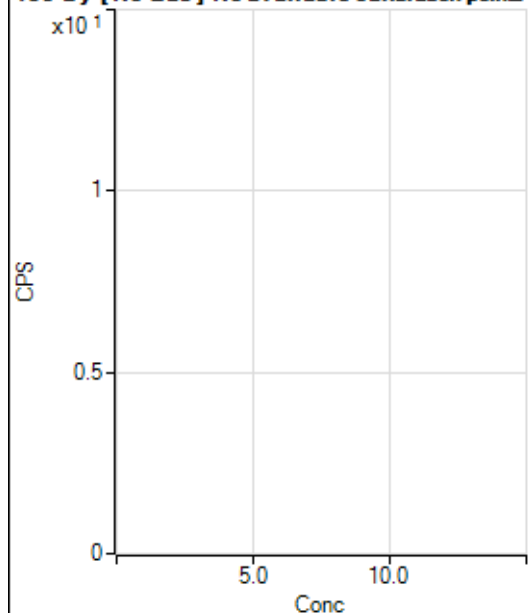
Min Conc: 0

150 Nd [No Gas] No available calibration points

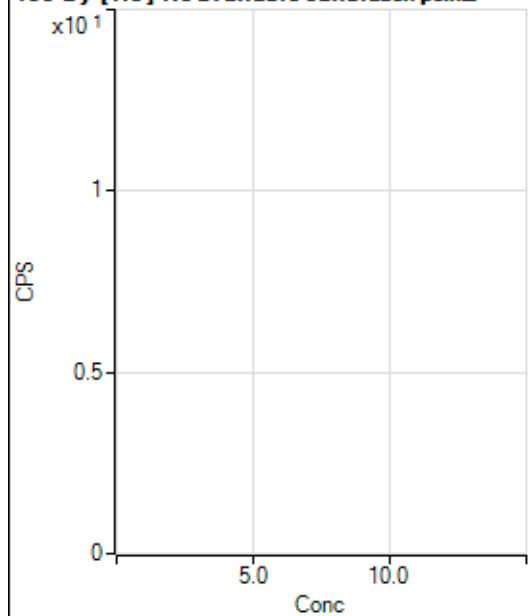
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			4.44		P	114.
3	☐			50.00		P	30.6
4	☐			145.56		P	36.4
5	☐			273.34		P	9.2
6	☐			515.57		P	14.2
7	☐			910.04		P	8.3
8	☐			302.23		P	10.2

150 Nd [He] No available calibration points

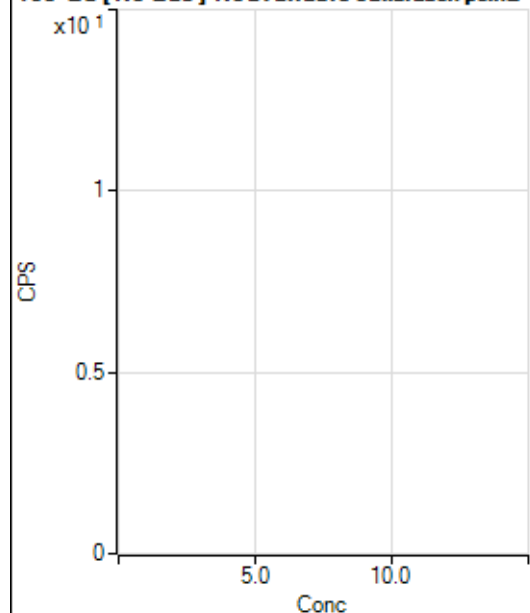
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.
3	☐			11.11		P	17.3
4	☐			31.11		P	37.6
5	☐			65.55		P	10.6
6	☐			122.23		P	15.7
7	☐			204.45		P	3.4
8	☐			134.45		P	7.6

156 Dy [No Gas] No available calibration points

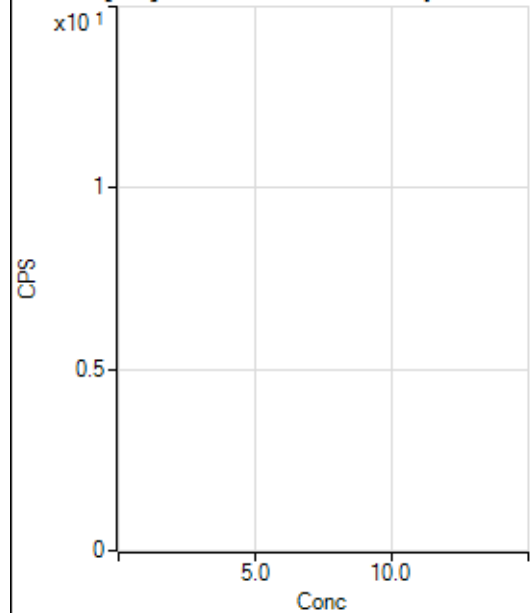
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	0.0
2	☐			11.11		P	75.5
3	☐			56.67		P	21.2
4	☐			117.78		P	3.3
5	☐			184.45		P	19.9
6	☐			306.68		P	1.9
7	☐			640.02		P	6.6
8	☐			1760.13		P	4.5

156 Dy [He] No available calibration points

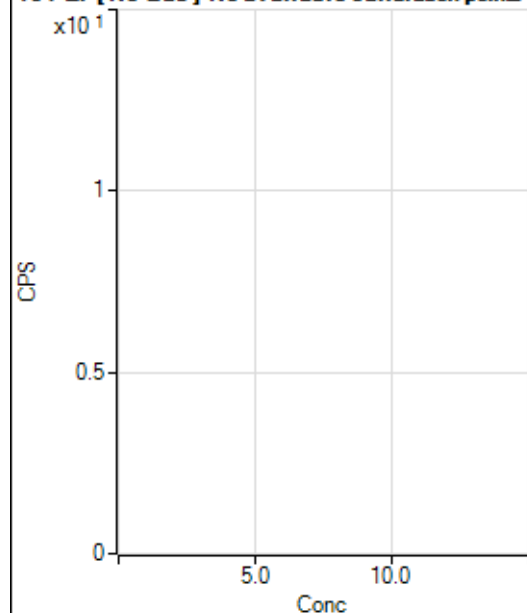
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.44		P	114.
3	☐			27.78		P	36.7
4	☐			77.78		P	31.6
5	☐			184.45		P	23.2
6	☐			327.78		P	9.2
7	☐			665.58		P	5.8
8	☐			1071.16		P	4.8

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

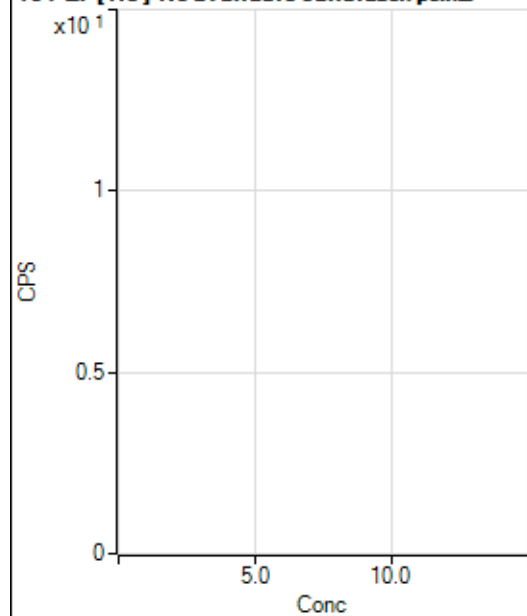
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	24.2
2	☐			54.45		P	7.1
3	☐			88.89		P	15.2
4	☐			133.34		P	15.2
5	☐			200.00		P	14.8
6	☐			336.67		P	11.7
7	☐			563.35		P	10.0
8	☐			1906.82		P	2.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			366.68		P	10.2
2	☐			387.79		P	12.2
3	☐			353.34		P	3.4
4	☐			393.34		P	10.6
5	☐			426.68		P	4.3
6	☐			490.02		P	8.0
7	☐			608.91		P	4.2
8	☐			1382.30		P	1.7

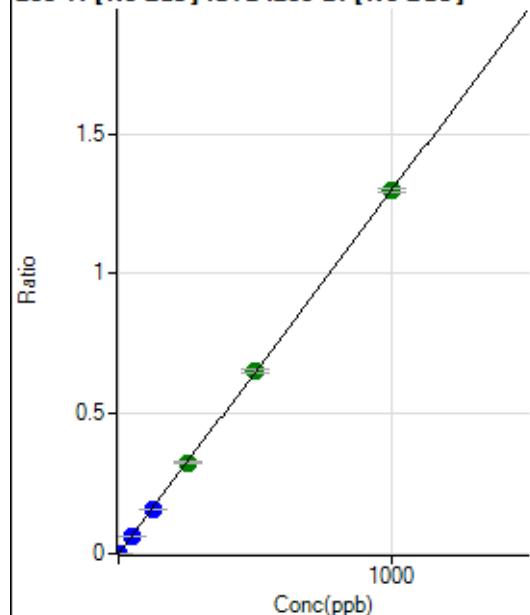
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	14.2
2	☐			94.44		P	12.4
3	☐			90.00		P	11.1
4	☐			111.11		P	29.6
5	☐			160.00		P	11.0
6	☐			151.12		P	13.5
7	☐			261.12		P	10.9
8	☐			290.01		P	8.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	24.0
2	☐			37.78		P	22.2
3	☐			54.45		P	12.7
4	☐			60.00		P	54.7
5	☐			70.00		P	12.6
6	☐			78.89		P	6.5
7	☐			126.67		P	7.0
8	☐			163.33		P	14.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.56	0.0000	P	21.3
2	☐	1.000	0.880	8062.45	0.0012	P	1.1
3	☐	50.000	47.160	428600.45	0.0611	P	1.6
4	☐	125.000	119.923	1065333.39	0.1555	P	0.4
5	☐	250.000	249.709	2199718.96	0.3237	A	2.2
6	☐	500.000	502.997	4354880.52	0.6520	A	1.4
7	☐	1000.000	999.351	8542670.15	1.2954	A	1.2
8	☐			1984.61	0.0004	P	9.0

$$y = 0.0013 * x + 1.2164E-005$$

$$R = 1.0000$$

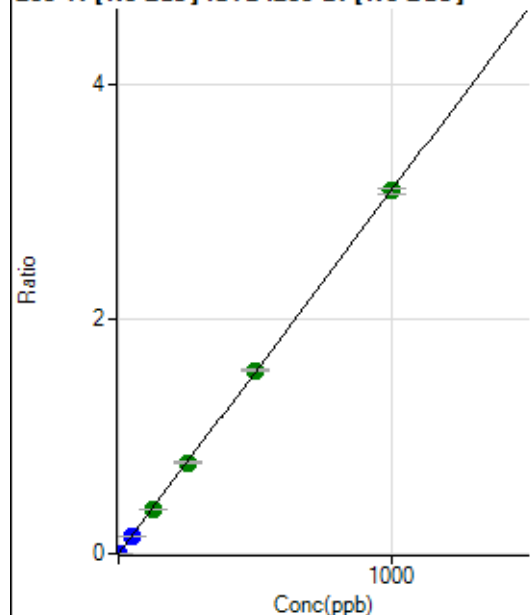
$$DL = 0.005986$$

$$BEC = 0.009384$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0000	P	4.2
2	☐	1.000	0.852	18659.52	0.0027	P	1.4
3	☐	50.000	46.946	1018838.03	0.1453	P	1.2
4	☐	125.000	122.960	2608157.06	0.3806	A	1.3
5	☐	250.000	249.547	5249374.02	0.7724	A	1.5
6	☐	500.000	503.669	10412623.32	1.5589	A	1.3
7	☐	1000.000	998.687	20383689.42	3.0911	A	1.9
8	☐			4789.78	0.0009	P	5.6

$$y = 0.0031 * x + 3.0824E-005$$

$$R = 1.0000$$

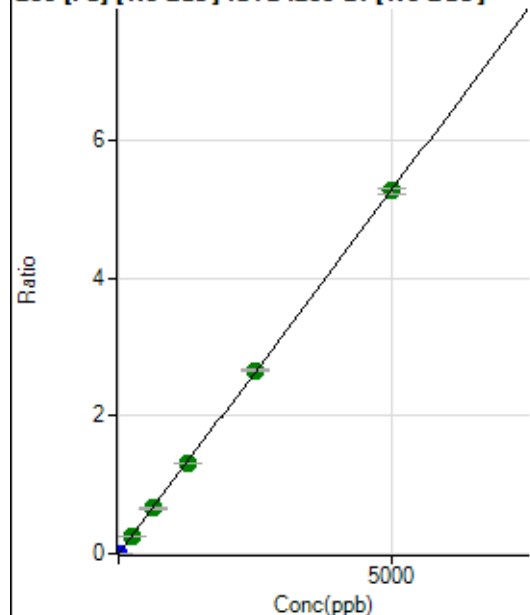
$$DL = 0.00126$$

$$BEC = 0.009959$$

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	312.23	0.0000	P	10.0
2	☐	1.000	0.853	6601.66	0.0009	P	1.6
3	☐	250.000	247.255	1827611.71	0.2607	A	1.2
4	☐	625.000	622.158	4494943.68	0.6559	A	1.4
5	☐	1250.000	1245.390	8923160.91	1.3130	A	1.4
6	☐	2500.000	2521.727	17757237.38	2.6585	A	1.3
7	☐	5000.000	4990.781	34696669.20	5.2615	A	1.7
8	☐			14050.71	0.0026	P	2.0

$$y = 0.0011 * x + 4.4465E-005$$

$$R = 1.0000$$

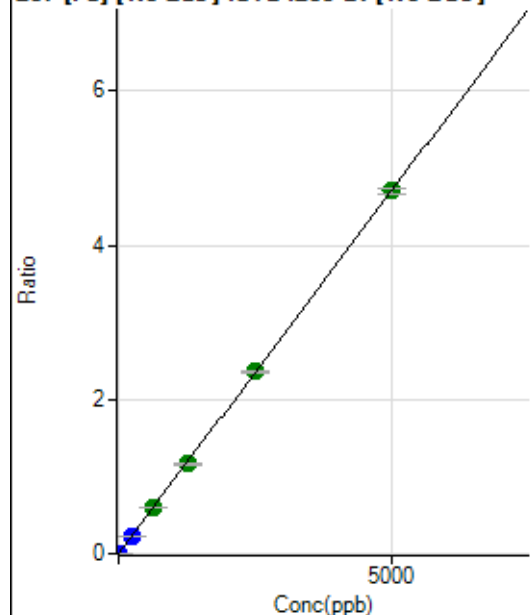
$$DL = 0.01264$$

$$BEC = 0.04218$$

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	254.45	0.0000	P	18.3
2	☐	1.000	0.849	5843.55	0.0008	P	2.0
3	☐	250.000	233.484	1540678.55	0.2198	P	0.7
4	☐	625.000	623.923	4024015.25	0.5872	A	0.3
5	☐	1250.000	1240.135	7931840.86	1.1671	A	1.5
6	☐	2500.000	2506.149	15754208.10	2.3586	A	0.6
7	☐	5000.000	5000.352	31031786.21	4.7059	A	1.5
8	☐			12185.57	0.0023	P	2.9

$$y = 9.4110E-004 * x + 3.6275E-005$$

$$R = 1.0000$$

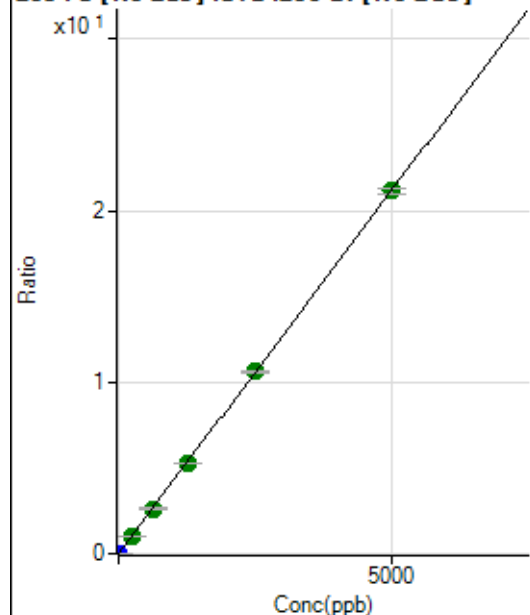
$$DL = 0.02113$$

$$BEC = 0.03854$$

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	1337.82	0.0002	P	7.4
2	☐	1.000	0.841	26235.63	0.0037	P	0.6
3	☐	250.000	244.994	7269505.93	1.0369	A	0.7
4	☐	625.000	621.575	18026559.35	2.6306	A	0.6
5	☐	1250.000	1245.222	35814275.79	5.2697	A	1.1
6	☐	2500.000	2509.923	70947639.36	10.6216	A	0.8
7	☐	5000.000	4996.911	139446733.2	21.1460	A	1.4
8	☐			55928.88	0.0104	P	3.5

$$y = 0.0042 * x + 1.9054E-004$$

$$R = 1.0000$$

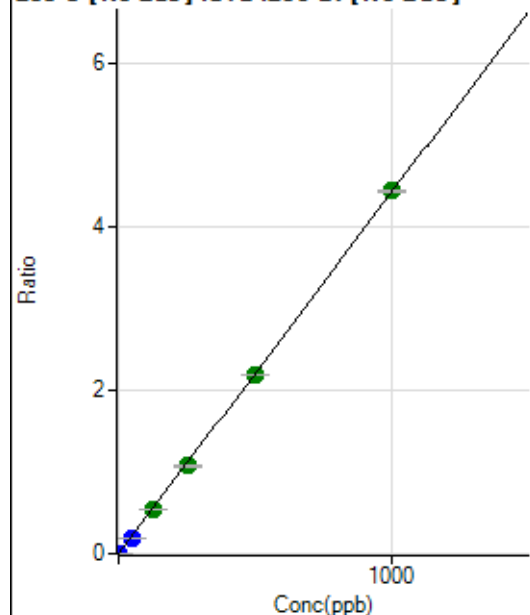
$$DL = 0.01005$$

$$BEC = 0.04503$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	61.7
2	☐	1.000	0.795	24590.53	0.0035	P	0.7
3	☐	50.000	44.312	1373167.38	0.1959	P	1.3
4	☐	125.000	120.736	3657473.45	0.5337	A	1.0
5	☐	250.000	243.993	7330044.13	1.0786	A	1.5
6	☐	500.000	495.033	14616647.01	2.1883	A	0.6
7	☐	1000.000	1004.803	29292229.29	4.4417	A	0.7
8	☐			8082.54	0.0015	P	6.7

$$y = 0.0044 * x + 1.5704E-006$$

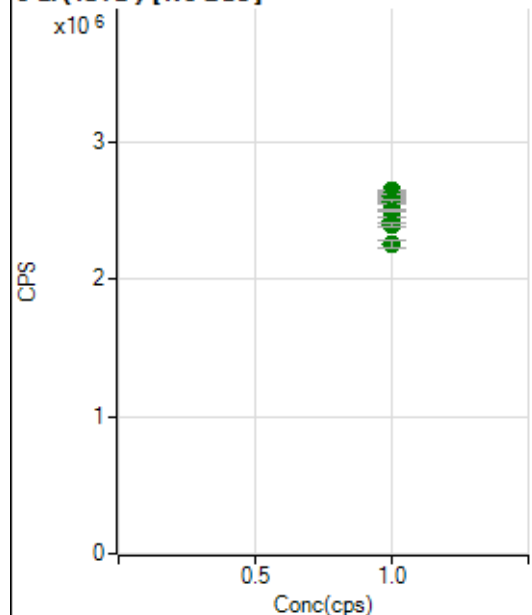
$$R = 1.0000$$

$$DL = 0.0006576$$

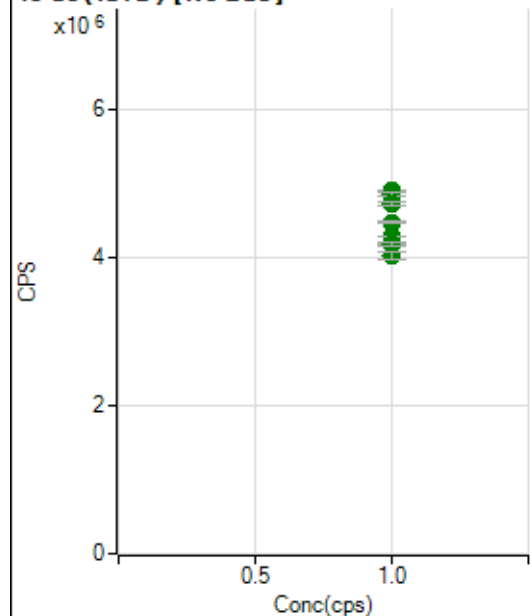
$$BEC = 0.0003553$$

Weight: <None>

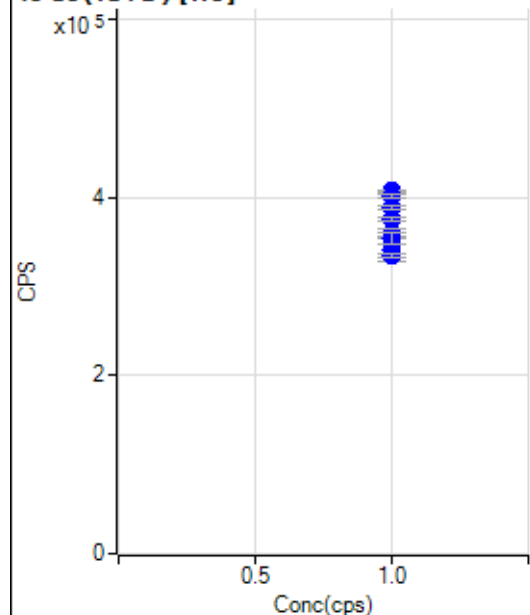
Min Conc: 0

6 Li (ISTD) [No Gas]

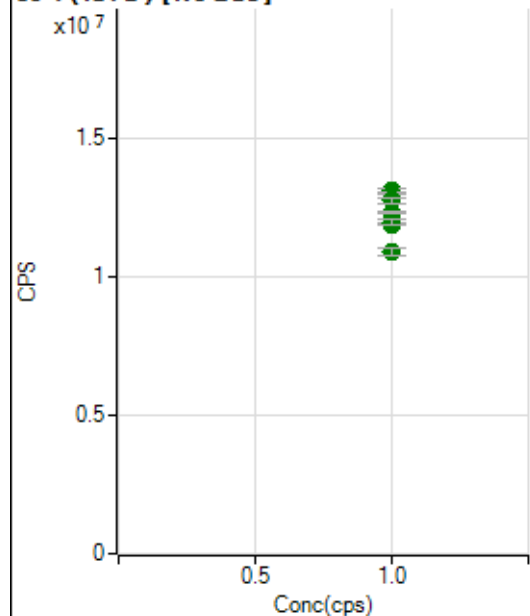
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2577674.09		A	1.5
2	☐	1.000		2639533.14		A	0.6
3	☐	1.000		2608058.97		A	1.1
4	☐	1.000		2555103.26		A	1.0
5	☐	1.000		2495979.84		A	0.3
6	☐	1.000		2426074.55		A	1.7
7	☐	1.000		2388843.38		A	1.2
8	☐	1.000		2254089.86		A	2.6

45 Sc (ISTD) [No Gas]

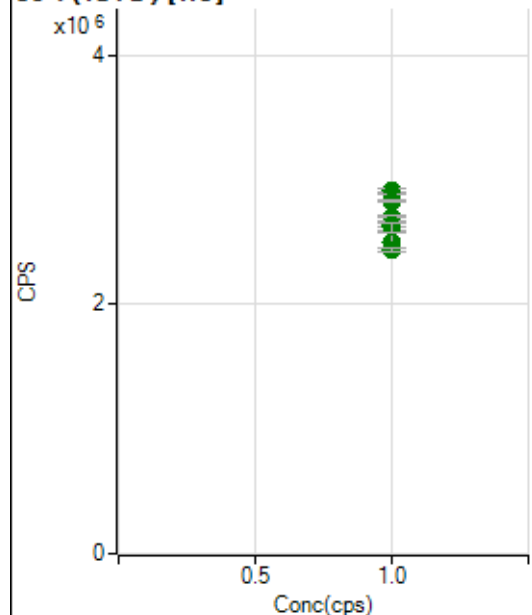
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4904358.05		A	0.7
2	☐	1.000		4865282.36		A	1.1
3	☐	1.000		4736334.86		A	0.8
4	☐	1.000		4479392.85		A	0.7
5	☐	1.000		4289923.58		A	0.3
6	☐	1.000		4190270.01		A	0.6
7	☐	1.000		4189218.96		A	1.5
8	☐	1.000		4024288.20		A	2.5

45 Sc (ISTD) [He]

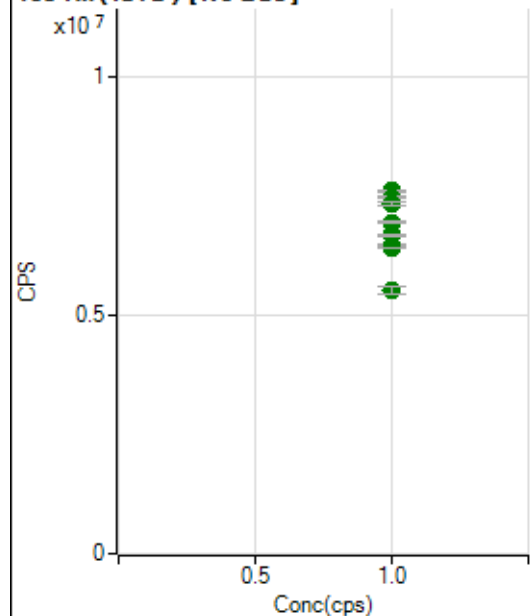
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		407724.98		P	0.8
2	☐	1.000		402212.89		P	0.8
3	☐	1.000		388890.59		P	1.2
4	☐	1.000		375354.32		P	1.4
5	☐	1.000		341581.57		P	7.1
6	☐	1.000		360285.84		P	2.4
7	☐	1.000		354369.60		P	3.2
8	☐	1.000		334779.93		P	0.9

89 Y (ISTD) [No Gas]

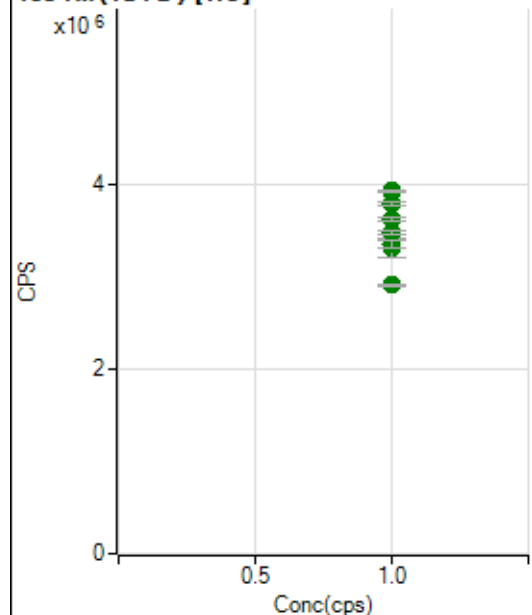
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13131880.36		A	0.9
2	☐	1.000		13028210.50		A	0.6
3	☐	1.000		12779958.14		A	1.8
4	☐	1.000		12333881.07		A	0.5
5	☐	1.000		11905991.49		A	0.1
6	☐	1.000		11951734.96		A	0.9
7	☐	1.000		11993277.88		A	2.1
8	☐	1.000		10926926.09		A	2.1

89 Y(ISTD) [He]

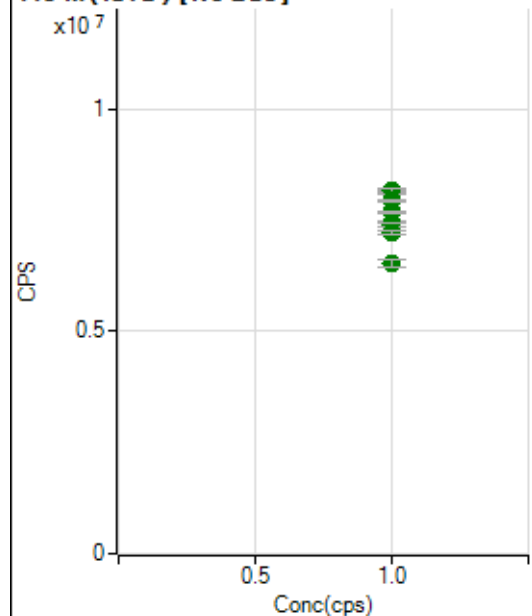
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2911439.33		A	0.9
2	☐	1.000		2888589.40		A	0.3
3	☐	1.000		2826647.21		A	0.4
4	☐	1.000		2704300.72		A	0.6
5	☐	1.000		2506501.96		A	7.0
6	☐	1.000		2643244.30		A	2.0
7	☐	1.000		2621334.39		A	2.9
8	☐	1.000		2440333.28		A	1.3

103 Rh(ISTD) [No Gas]

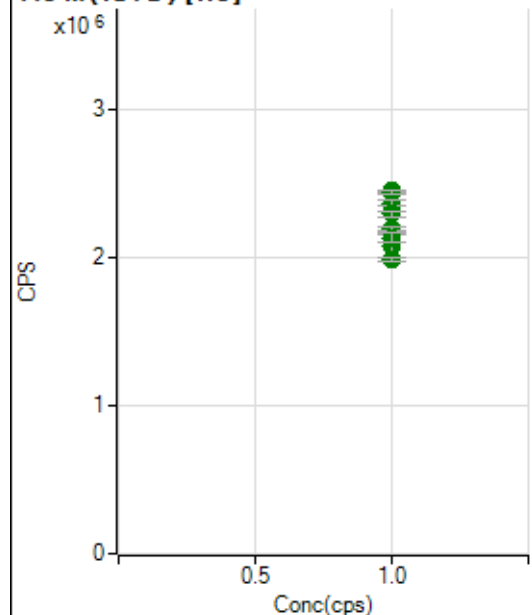
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7597528.78		A	0.6
2	☐	1.000		7458630.79		A	0.7
3	☐	1.000		7327604.82		A	0.8
4	☐	1.000		6931485.45		A	0.7
5	☐	1.000		6667170.04		A	0.2
6	☐	1.000		6454378.52		A	0.6
7	☐	1.000		6403035.81		A	0.6
8	☐	1.000		5520177.42		A	2.9

103 Rh (ISTD) [He]

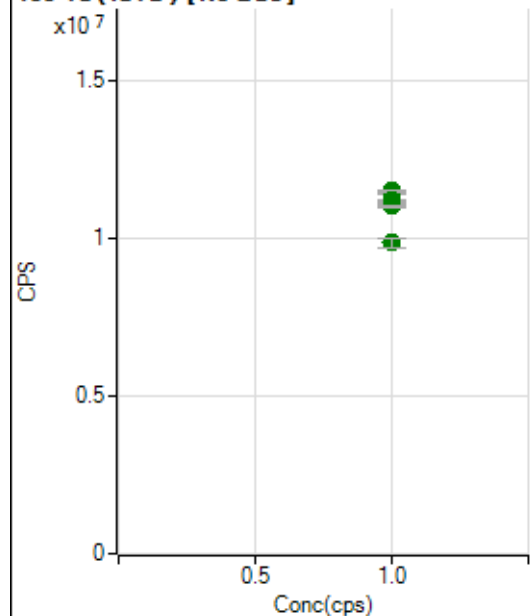
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3931536.23		A	0.2
2	☐	1.000		3927237.65		A	0.8
3	☐	1.000		3791491.99		A	0.7
4	☐	1.000		3625335.02		A	1.2
5	☐	1.000		3315601.41		A	6.6
6	☐	1.000		3478728.98		A	1.2
7	☐	1.000		3360487.35		A	2.6
8	☐	1.000		2912037.14		A	0.8

115 In (ISTD) [No Gas]

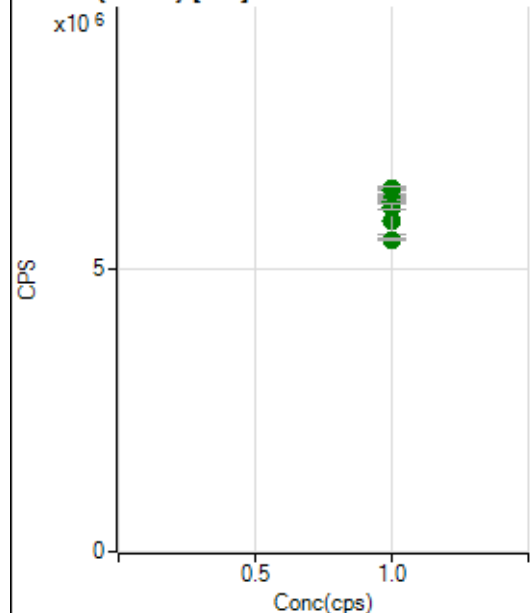
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8163775.68		A	0.8
2	☐	1.000		8157470.47		A	1.4
3	☐	1.000		7950608.96		A	0.7
4	☐	1.000		7686102.90		A	0.4
5	☐	1.000		7452349.66		A	0.7
6	☐	1.000		7411923.30		A	1.1
7	☐	1.000		7223638.76		A	1.5
8	☐	1.000		6543813.14		A	2.5

115 In (ISTD) [He]

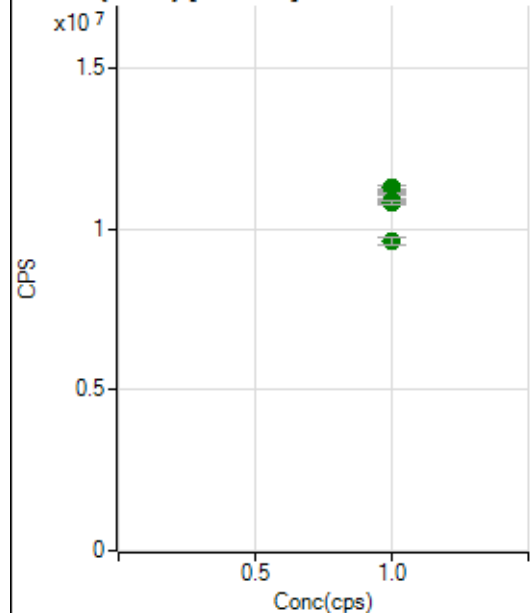
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2445951.44		A	0.3
2	☐	1.000		2433352.26		A	1.1
3	☐	1.000		2363289.10		A	1.5
4	☐	1.000		2290610.96		A	2.1
5	☐	1.000		2076026.81		A	7.1
6	☐	1.000		2188291.20		A	0.8
7	☐	1.000		2129277.95		A	3.1
8	☐	1.000		1982842.63		A	1.0

159 Tb (ISTD) [No Gas]

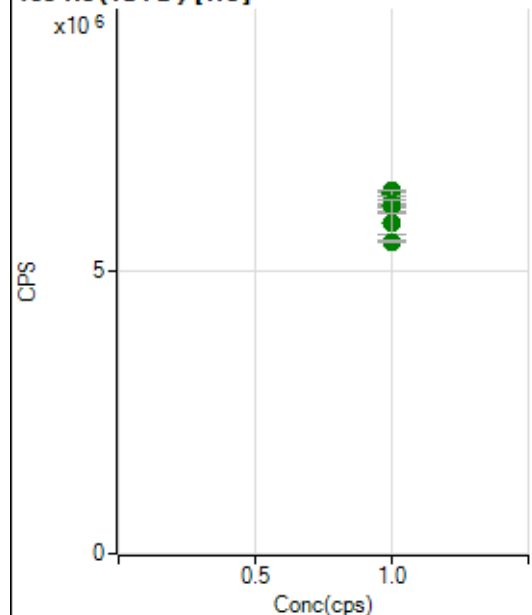
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11435136.36		A	0.5
2	☐	1.000		11477347.05		A	0.4
3	☐	1.000		11481215.11		A	0.6
4	☐	1.000		11168290.25		A	0.8
5	☐	1.000		11027731.78		A	0.4
6	☐	1.000		11047604.28		A	0.8
7	☐	1.000		10999891.92		A	0.6
8	☐	1.000		9838490.62		A	2.9

159 Tb (ISTD) [He]

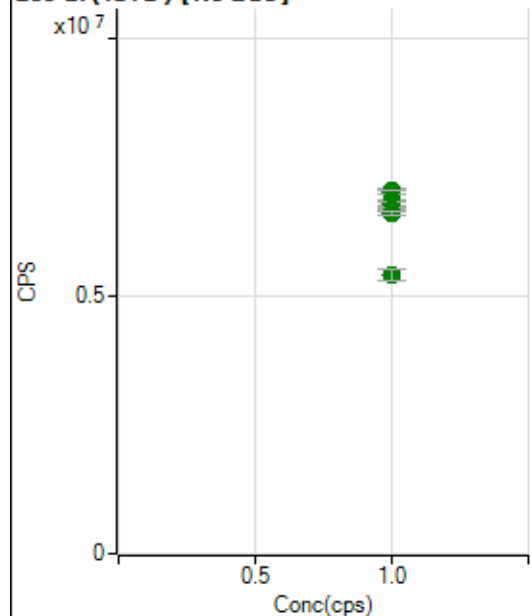
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6402825.53		A	0.5
2	☐	1.000		6375905.53		A	2.0
3	☐	1.000		6294419.63		A	0.9
4	☐	1.000		6218216.29		A	0.9
5	☐	1.000		5824337.48		A	7.5
6	☐	1.000		6165214.98		A	1.2
7	☐	1.000		6086508.10		A	1.9
8	☐	1.000		5510210.75		A	0.5

165 Ho (ISTD) [No Gas]

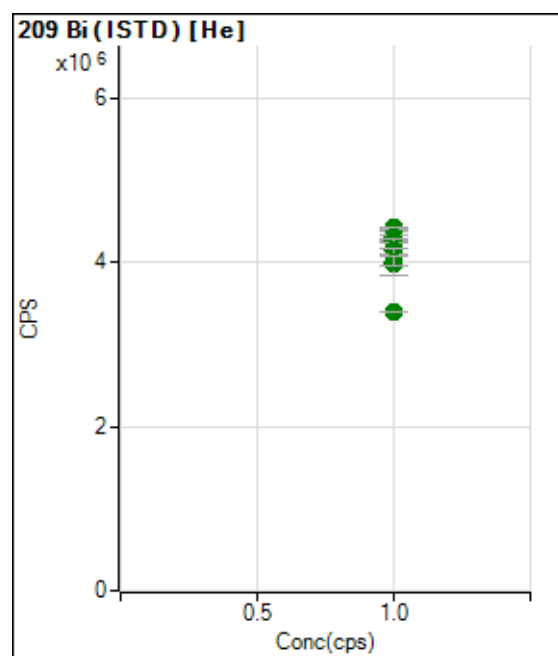
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11286363.30		A	0.9
2	☐	1.000		11223595.25		A	0.5
3	☐	1.000		11104552.89		A	0.2
4	☐	1.000		10899372.06		A	1.0
5	☐	1.000		10807824.98		A	0.2
6	☐	1.000		10826189.14		A	0.2
7	☐	1.000		10839539.29		A	1.3
8	☐	1.000		9631701.38		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6409527.06		A	0.3
2	☐	1.000		6371928.44		A	1.4
3	☐	1.000		6362835.32		A	1.7
4	☐	1.000		6174499.21		A	0.5
5	☐	1.000		5852957.20		A	7.2
6	☐	1.000		6159058.31		A	1.3
7	☐	1.000		6134180.88		A	3.9
8	☐	1.000		5512854.29		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7026984.41		A	1.6
2	☐	1.000		6996834.76		A	1.1
3	☐	1.000		7010750.94		A	1.2
4	☐	1.000		6852836.49		A	0.3
5	☐	1.000		6796817.54		A	1.1
6	☐	1.000		6679652.96		A	0.7
7	☐	1.000		6595072.89		A	1.4
8	☐	1.000		5395177.84		A	3.8



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4387925.73		A	0.8
2	☐	1.000		4421488.48		A	0.6
3	☐	1.000		4308375.28		A	1.6
4	☐	1.000		4263400.56		A	1.1
5	☐	1.000		3975320.84		A	6.4
6	☐	1.000		4142351.08		A	1.8
7	☐	1.000		4017388.90		A	2.6
8	☐	1.000		3397371.62		A	0.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7121123MS.b
Acq. Date-Time 2023-12-11 10:46:47
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		18720	187195.89			0.629	5.000
24		84547	845470.74			0.291	5.000
25		11359	113590.69			0.304	5.000
26		13145	131446.33			0.518	5.000
59		92496	924962.65			1.009	5.000
113		13598	135983.53			0.455	5.000
115		157756	1577562.17			1.028	5.000
206		39549	395492.14			0.689	5.000
207		35776	357758.14			0.737	5.000
208		84661	846607.92			0.501	5.000
220		0	3.50			33.503	

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

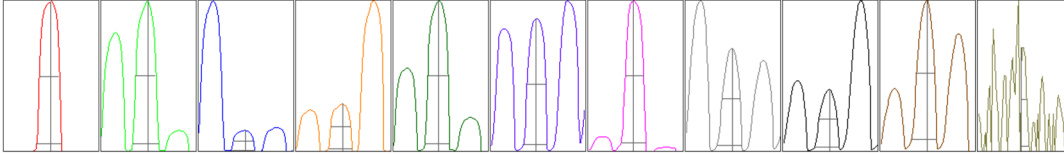
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18830	18852	18615	18701	18600
24	84319	84341	84507	84912	84657
25	11307	11350	11383	11358	11397
26	13058	13201	13176	13086	13203
59	92853	93435	93188	91395	91610
113	13685	13611	13535	13618	13542
115	158423	158629	159093	155016	157620
206	39854	39546	39690	39535	39120
207	36161	35784	35736	35780	35418
208	85283	84836	84587	84431	84166

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	30563.62	9.00	8.90 - 9.10	
24	138507.08	24.00	23.90 - 24.10	
25	18697.32	25.00	24.90 - 25.10	
26	21671.07	26.00	25.90 - 26.10	
59	149281.30	58.95	58.90 - 59.10	
113	23877.94	112.95	112.90 - 113.10	
115	280510.22	114.95	114.90 - 115.10	
206	71216.69	206.00	205.90 - 206.10	
207	62817.31	207.00	206.90 - 207.10	
208	152069.20	208.00	207.90 - 208.10	
220	0.55	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.781	0.900	
24	0.64	0.827	0.900	
25	0.63	0.745	0.900	
26	0.64	0.745	0.900	
59	0.65	0.785	0.900	
113	0.58	0.742	0.900	
115	0.56	0.787	0.900	
206	0.57	0.787	0.900	
207	0.57	0.778	0.900	
208	0.56	0.799	0.900	
220	0.19	0.288		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	14.8 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	1.0 mm
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EM

Discriminator	4.6 mV	Analog HV	2301 V	Pulse HV	1377 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		30254	302541.74			0.543	
89		37742	377416.53			0.368	
205		34709	347087.36			0.905	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	30517	30145	30252	30091	30266
89	37912	37555	37697	37703	37841
205	35216	34656	34581	34365	34725

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	180 V		
QP Parameters					
Mass Gain	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.13		
Hardware Settings					
Torch					
Torch H	-0.4 mm	Torch V	1.0 mm		
EM					
Discriminator	4.6 mV	Analog HV	2301 V	Pulse HV	1377 V