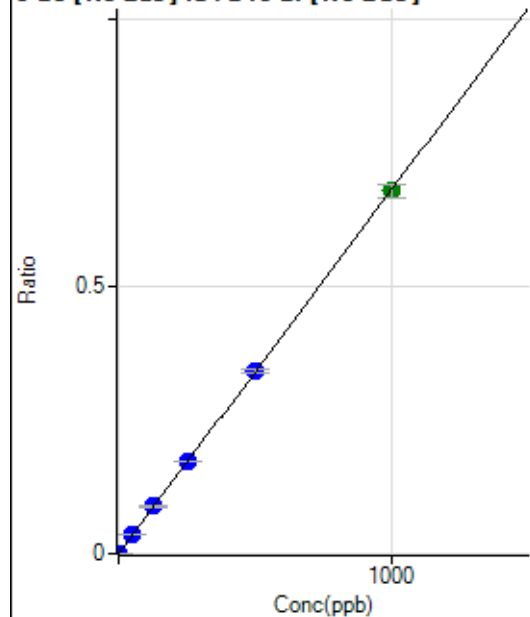


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021423 MS.b\
Analysis File: P8021423 MS.batch.bin
DA Date-Time: 2023-02-14 16:30:40
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-14 13:31:20
2	005CALS.d	S02	2023-02-14 13:34:35
3	007CALS.d	S03	2023-02-14 13:41:06
4	008CALS.d	S04	2023-02-14 13:44:23
5	009CALS.d	S05	2023-02-14 13:47:32
6	010CALS.d	S06	2023-02-14 13:50:40
7	011CALS.d	S07	2023-02-14 13:53:47
8	012CALS.d	S08	2023-02-14 13:56:55

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.16	0.0000	P	8.7
2	☐	1.000	1.081	1390.32	0.0008	P	2.4
3	☐	50.000	51.020	64148.70	0.0348	P	1.2
4	☐	125.000	130.830	157542.23	0.0891	P	2.3
5	☐	250.000	253.561	314038.01	0.1726	P	1.1
6	☐	500.000	502.028	611059.33	0.3418	P	2.1
7	☐	1000.000	997.316	1193607.58	0.6789	A	4.0
8	☐			919.11	0.0006	P	60.7

$$y = 6.8072\text{E-}004 * x + 2.4635\text{E-}005$$

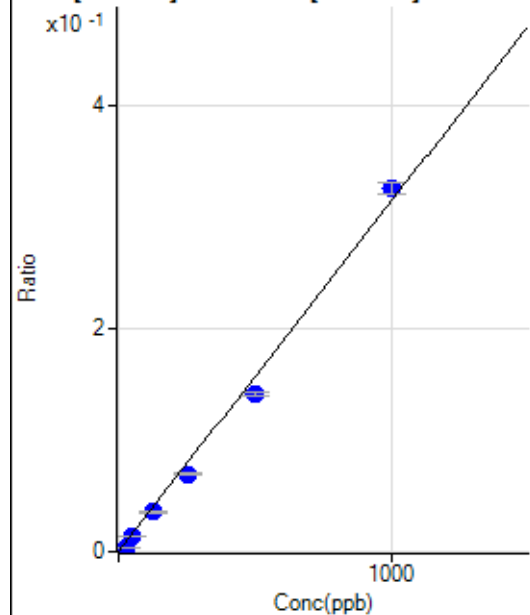
$$R = 1.0000$$

$$DL = 0.009437$$

$$BEC = 0.03619$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	448.59	0.0003	P	10.5
2	☐	25.000	7.759	4913.20	0.0027	P	2.2
3	☐	50.000	43.958	25952.46	0.0141	P	2.0
4	☐	125.000	112.474	62927.76	0.0356	P	1.8
5	☐	250.000	221.167	126831.50	0.0697	P	2.1
6	☐	500.000	449.553	252925.98	0.1415	P	2.1
7	☐	1000.000	1034.731	572041.87	0.3253	P	3.2
8	☐			27284.71	0.0165	P	9.8

$$y = 3.1412\text{E-}004 * x + 2.5022\text{E-}004$$

$$R = 0.9979$$

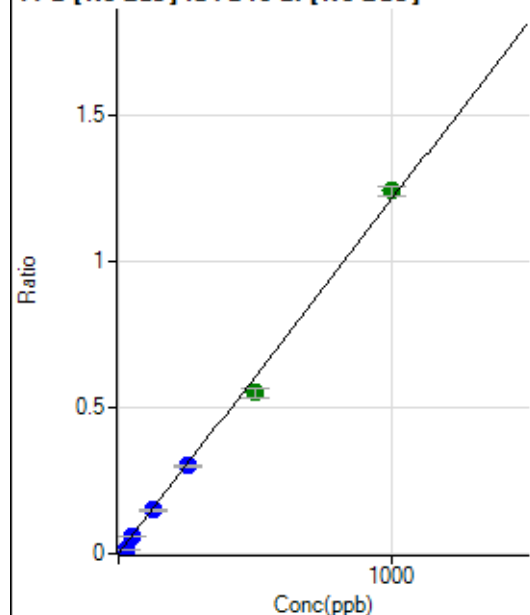
$$DL = 0.2498$$

$$BEC = 0.7966$$

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	2016.42	0.0011	P	3.6
2	☐	25.000	8.484	20805.93	0.0114	P	2.5
3	☐	50.000	47.338	107710.16	0.0583	P	1.7
4	☐	125.000	123.111	265132.26	0.1499	P	3.6
5	☐	250.000	248.046	547474.73	0.3010	P	1.7
6	☐	500.000	453.733	982259.96	0.5496	A	5.9
7	☐	1000.000	1024.404	2180044.63	1.2394	A	2.5
8	☐			115032.38	0.0695	P	7.8

$$y = 0.0012 * x + 0.0011$$

$$R = 0.9984$$

$$DL = 0.1008$$

$$BEC = 0.9305$$

Weight: <None>

Min Conc: 0

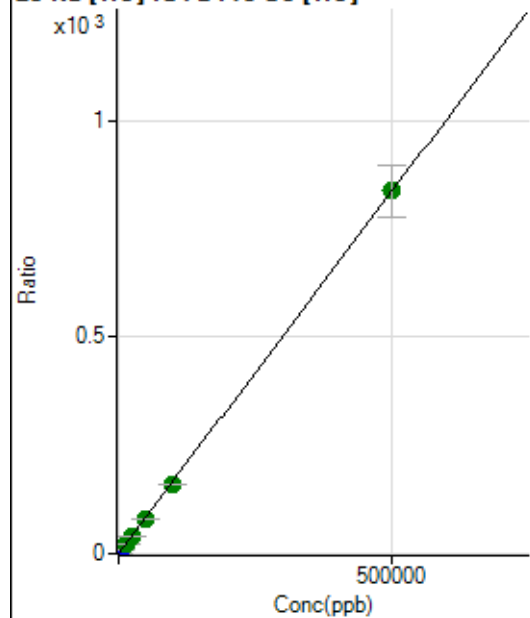
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2549169.02		A	1.2
2	☐			2586537.92		A	0.5
3	☐			2684677.99		A	0.9
4	☐			2856251.63		A	0.9
5	☐			3001928.41		A	0.8
6	☐			2964166.36		A	2.0
7	☐			3029197.23		A	1.3
8	☐			2826089.69		A	2.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29652.75		P	2.9
2	☐			30585.23		P	1.6
3	☐			32700.81		P	1.2
4	☐			33814.44		P	3.0
5	☐			35913.87		P	2.0
6	☐			36863.53		P	1.4
7	☐			36813.41		P	3.0
8	☐			35997.23		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8194.15	0.1247	P	4.7
2	☐	500.000	496.882	62420.52	0.9556	P	2.1
3	☐	5000.000	4863.422	558117.44	8.2573	P	0.5
4	☐	12500.000	12247.505	1363950.90	20.6049	A	1.2
5	☐	25000.000	24578.572	2734959.55	41.2249	A	4.1
6	☐	50000.000	47751.651	5320474.81	79.9749	A	2.0
7	☐	100000.00	95599.001	10625020.38	159.9851	A	0.7
8	☐	500000.00	501133.78	50208083.07	838.1194	A	14.4

$$y = 0.0017 * x + 0.1247$$

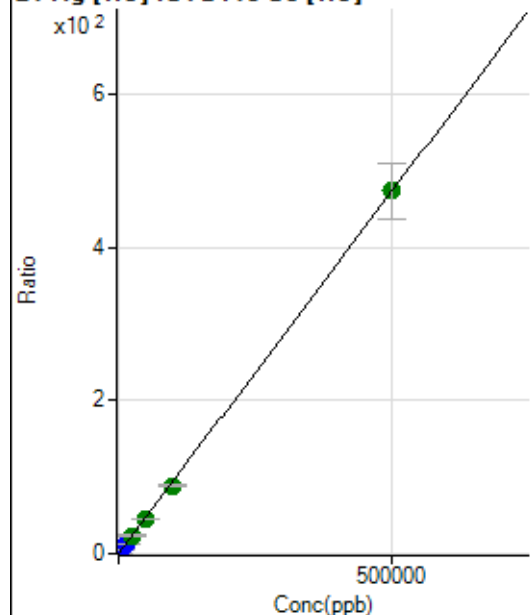
$$R = 1.0000$$

$$DL = 10.53$$

$$BEC = 74.56$$

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	1916.84	0.0292	P	7.9
2	☐	500.000	487.116	32016.21	0.4900	P	1.4
3	☐	5000.000	4972.467	319899.18	4.7330	P	1.0
4	☐	12500.000	12390.074	777621.26	11.7498	P	1.7
5	☐	25000.000	25030.744	1572865.79	23.7074	A	3.5
6	☐	50000.000	48023.719	3024083.49	45.4580	A	0.9
7	☐	100000.00	94228.991	5922072.18	89.1667	A	0.9
8	☐	500000.00	501353.32	28395664.52	474.2926	A	15.2

$$y = 9.4597\text{E-}004 * x + 0.0292$$

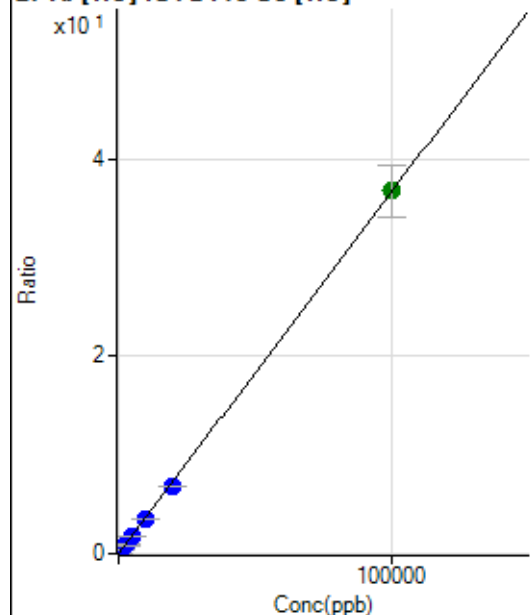
$$R = 0.9999$$

$$DL = 7.342$$

$$BEC = 30.85$$

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	53.32	0.0008	P	19.6
2	☐	20.000	20.535	544.11	0.0083	P	4.2
3	☐	1000.000	972.368	24113.14	0.3568	P	1.3
4	☐	2500.000	2422.036	58728.12	0.8874	P	2.6
5	☐	5000.000	4832.257	117415.10	1.7697	P	2.9
6	☐	10000.000	9492.691	231228.37	3.4757	P	1.3
7	☐	20000.000	18635.543	453114.62	6.8226	P	1.2
8	☐	100000.00	100334.23	2199957.22	36.7294	A	14.6

$$y = 3.6606\text{E-}004 * x + 8.1338\text{E-}004$$

$$R = 0.9999$$

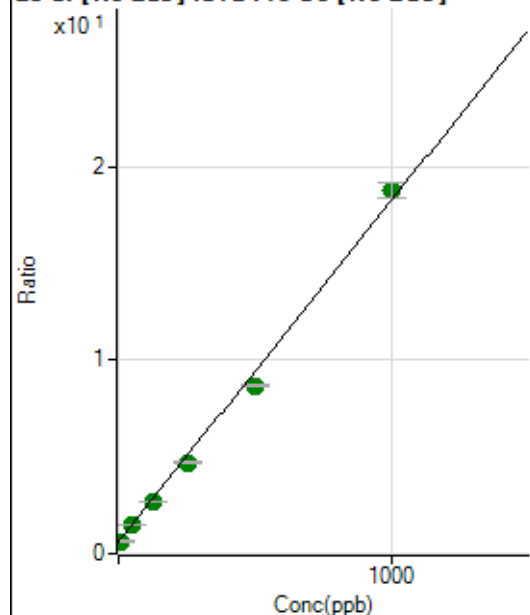
$$DL = 1.308$$

$$BEC = 2.222$$

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	1129947.14	0.6293	A	3.4
2	☐	10.000	0.682	1177965.50	0.6413	A	1.9
3	☐	50.000	46.457	2695662.62	1.4484	A	0.8
4	☐	125.000	117.116	5004350.85	2.6942	A	2.8
5	☐	250.000	231.500	8943867.21	4.7111	A	2.1
6	☐	500.000	456.272	16340991.68	8.6743	A	1.5
7	☐	1000.000	1027.745	35516175.79	18.7505	A	4.1
8	☐			1478677.95	0.8161	A	3.2

$$y = 0.0176 * x + 0.6293$$

$$R = 0.9985$$

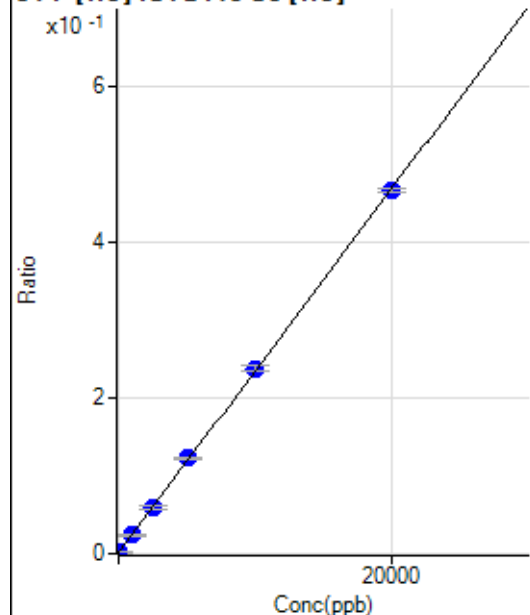
$$DL = 3.667$$

$$BEC = 35.69$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-17.359	50.00	0.0008	P	30.6
2	☐	0.000	17.359	102.78	0.0016	P	42.1
3	☐	1000.000	998.105	1658.47	0.0245	P	9.2
4	☐	2500.000	2444.237	3861.72	0.0584	P	9.1
5	☐	5000.000	5217.372	8180.31	0.1233	P	1.8
6	☐	10000.000	10125.982	15845.18	0.2382	P	2.6
7	☐	20000.000	19889.731	30994.92	0.4667	P	1.1
8	☐			108.34	0.0018	P	38.2

$$y = 2.3405E-005 * x + 0.0012$$

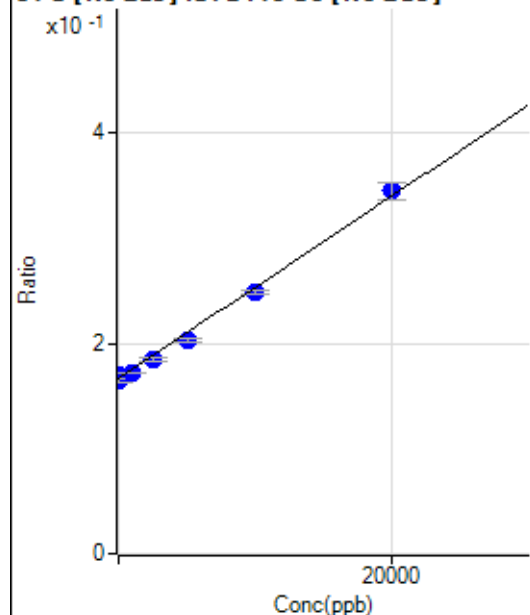
$$R = 0.9999$$

$$DL = 57.57$$

$$BEC = 50$$

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	265.623	304309.45	0.1694	P	2.6
2	☐	0.000	-265.623	302800.55	0.1648	P	2.2
3	☐	1000.000	541.347	319786.82	0.1718	P	0.7
4	☐	2500.000	2038.873	343241.42	0.1848	P	1.8
5	☐	5000.000	4208.677	386453.59	0.2036	P	1.9
6	☐	10000.000	9470.129	469213.69	0.2491	P	1.7
7	☐	20000.000	20543.340	653167.22	0.3449	P	4.6
8	☐			262261.04	0.1447	P	1.0

$$y = 8.6518\text{E-}006 * x + 0.1671$$

$$R = 0.9984$$

$$DL = 1402$$

$$BEC = 1.932\text{E}+04$$

Weight: <None>

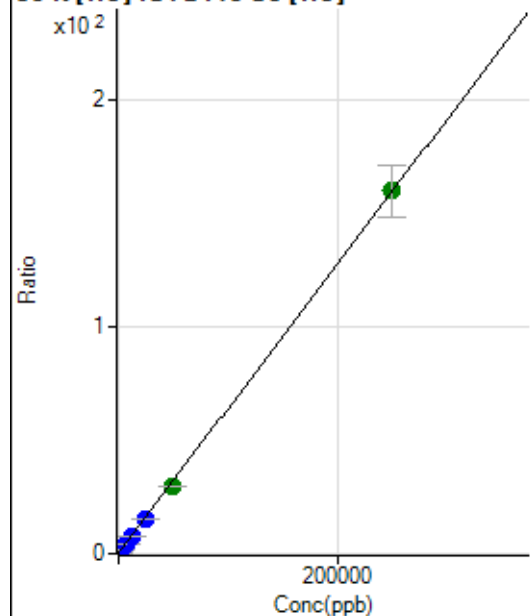
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			106120.94		P	1.8
2	☐			108390.76		P	1.6
3	☐			120019.93		P	0.4
4	☐			122061.99		P	1.1
5	☐			115556.66		P	0.4
6	☐			113174.21		P	0.6
7	☐			123426.41		P	1.1
8	☐			123313.92		P	1.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			730.59		P	14.1
2	☐			863.94		P	7.4
3	☐			933.39		P	2.7
4	☐			911.16		P	8.5
5	☐			888.94		P	2.9
6	☐			858.38		P	11.8
7	☐			966.73		P	3.1
8	☐			927.83		P	8.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21527.71	0.3276	P	4.4
2	☐	500.000	472.384	40997.65	0.6274	P	1.4
3	☐	2500.000	2306.252	121076.75	1.7914	P	2.3
4	☐	6250.000	5774.293	264241.35	3.9925	P	1.2
5	☐	12500.000	11756.008	516784.91	7.7890	P	2.7
6	☐	25000.000	23072.452	995991.23	14.9713	P	0.7
7	☐	50000.000	46178.650	1968112.68	29.6364	A	2.2
8	☐	250000.00	251008.11	9567952.04	159.6382	A	14.0

$$y = 6.3468\text{E-}004 * x + 0.3276$$

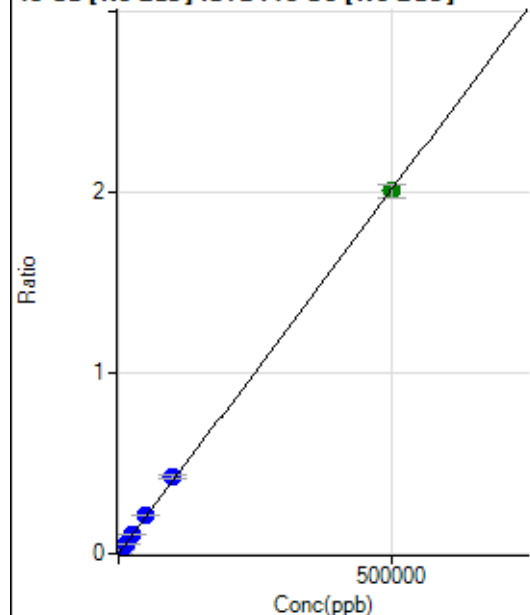
$$R = 0.9999$$

$$DL = 67.41$$

$$BEC = 516.2$$

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	85.41	0.0000	P	10.7
2	☐	500.000	502.108	3795.04	0.0021	P	2.6
3	☐	5000.000	5316.037	39860.25	0.0214	P	1.9
4	☐	12500.000	13253.103	99052.07	0.0533	P	2.0
5	☐	25000.000	25925.019	197939.44	0.1043	P	2.4
6	☐	50000.000	52081.536	394503.21	0.2094	P	1.2
7	☐	100000.00	105039.60	799704.24	0.4223	P	5.1
8	☐	500000.00	498715.68	3632264.93	2.0048	A	3.5

$$y = 4.0199\text{E-}006 * x + 4.7616\text{E-}005$$

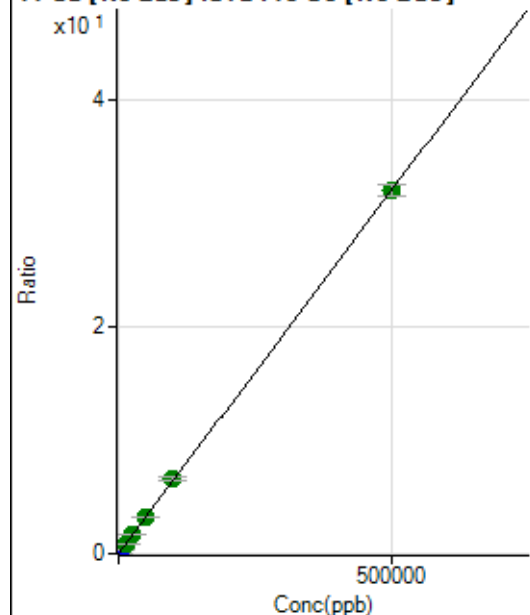
$$R = 0.9999$$

$$DL = 3.815$$

$$BEC = 11.85$$

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	7769.49	0.0043	P	3.4
2	☐	500.000	513.455	68262.05	0.0372	P	2.0
3	☐	5000.000	5199.502	626856.80	0.3368	P	2.0
4	☐	12500.000	12955.570	1547146.18	0.8328	A	1.5
5	☐	25000.000	25439.326	3097827.20	1.6311	A	1.6
6	☐	50000.000	50373.092	6077106.00	3.2255	A	2.4
7	☐	100000.00	102792.67	12452987.77	6.5776	A	6.5
8	☐	500000.00	499368.79	57863598.81	31.9374	A	3.1

$$y = 6.3947\text{E-}005 * x + 0.0043$$

$$R = 1.0000$$

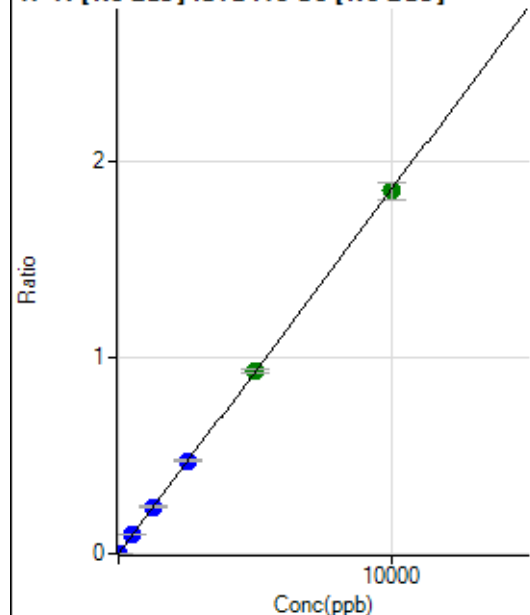
$$DL = 6.816$$

$$BEC = 67.66$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	119.45	0.0001	P	44.7
2	☐	5.000	4.985	1819.61	0.0010	P	13.7
3	☐	500.000	514.362	177736.33	0.0955	P	2.3
4	☐	1250.000	1286.052	443356.13	0.2387	P	1.9
5	☐	2500.000	2549.828	898269.33	0.4732	P	2.0
6	☐	5000.000	5040.062	1761883.52	0.9352	A	2.1
7	☐	10000.000	9962.287	3500545.82	1.8484	A	4.9
8	☐			2767.27	0.0015	P	70.2

$$y = 1.8554\text{E-}004 * x + 6.5894\text{E-}005$$

$$R = 1.0000$$

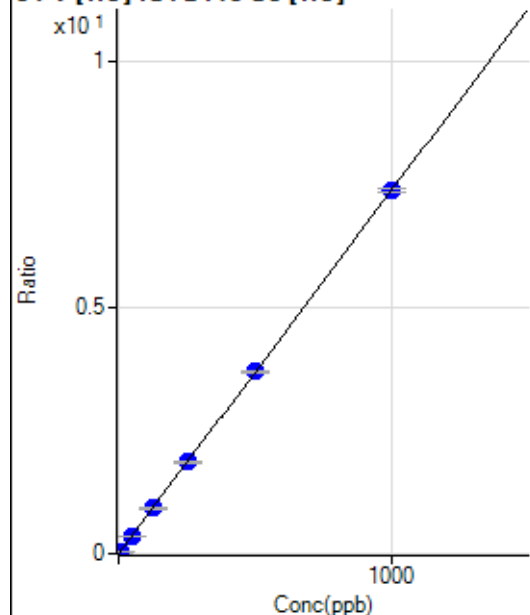
$$DL = 0.4762$$

$$BEC = 0.3552$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0001	P	173.2
2	☐	5.000	5.198	2515.80	0.0385	P	4.5
3	☐	50.000	49.893	24930.71	0.3688	P	0.5
4	☐	125.000	125.013	61153.52	0.9241	P	2.4
5	☐	250.000	251.830	123502.12	1.8614	P	2.7
6	☐	500.000	501.547	246621.47	3.7072	P	1.5
7	☐	1000.000	998.772	490278.99	7.3823	P	0.9
8	☐			211.11	0.0035	P	9.8

$$y = 0.0074 * x + 6.9636\text{E-}005$$

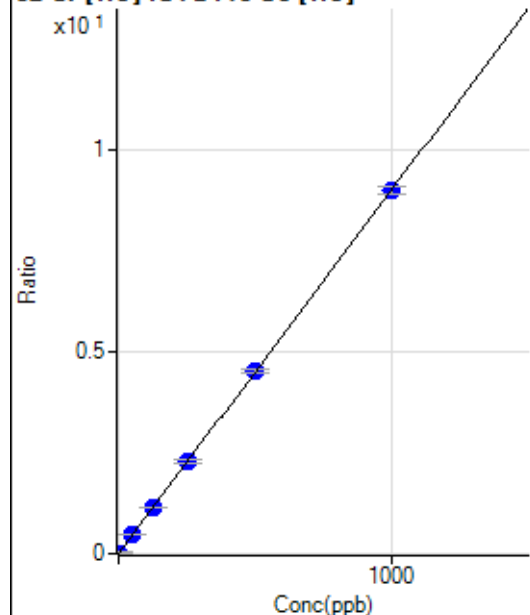
$$R = 1.0000$$

$$DL = 0.04895$$

$$BEC = 0.009421$$

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	252.23	0.0038	P	12.7
2	☐	2.000	2.190	1540.10	0.0236	P	3.7
3	☐	50.000	50.776	31215.35	0.4618	P	2.3
4	☐	125.000	126.764	75921.48	1.1472	P	1.7
5	☐	250.000	252.975	151638.27	2.2855	P	2.9
6	☐	500.000	502.044	301495.30	4.5320	P	2.2
7	☐	1000.000	997.975	598071.91	9.0050	P	2.0
8	☐			5673.40	0.0945	P	12.0

$$y = 0.0090 * x + 0.0038$$

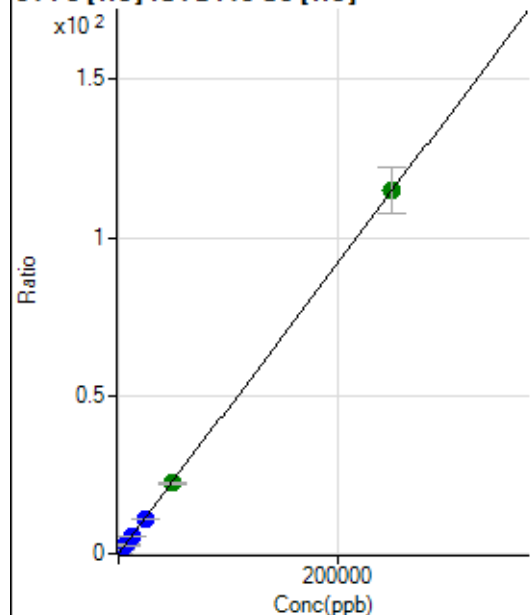
$$R = 1.0000$$

$$DL = 0.162$$

$$BEC = 0.4248$$

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	500.02	0.0076	P	22.2
2	☐	50.000	46.452	1885.35	0.0289	P	4.1
3	☐	2500.000	2436.566	75972.22	1.1240	P	1.5
4	☐	6250.000	6007.134	182654.09	2.7599	P	2.4
5	☐	12500.000	12195.400	371245.44	5.5952	P	2.2
6	☐	25000.000	24004.076	732192.70	11.0057	P	2.5
7	☐	50000.000	48847.857	1487077.78	22.3886	A	3.4
8	☐	250000.00	250351.95	6882667.23	114.7134	A	12.6

$$y = 4.5818E-004 * x + 0.0076$$

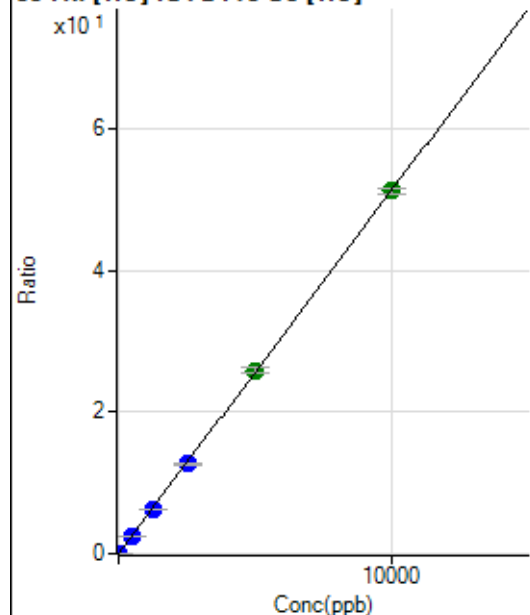
$$R = 1.0000$$

$$DL = 11.01$$

$$BEC = 16.53$$

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	38.89	0.0006	P	38.3
2	☐	1.000	1.092	404.46	0.0062	P	7.8
3	☐	500.000	496.332	172013.18	2.5449	P	0.7
4	☐	1250.000	1227.870	416589.52	6.2949	P	2.6
5	☐	2500.000	2472.447	840987.19	12.6748	P	2.8
6	☐	5000.000	5038.758	1718425.76	25.8302	A	3.4
7	☐	10000.000	9990.459	3401504.43	51.2136	A	1.8
8	☐			3903.91	0.0651	P	13.1

$$y = 0.0051 * x + 5.8882E-004$$

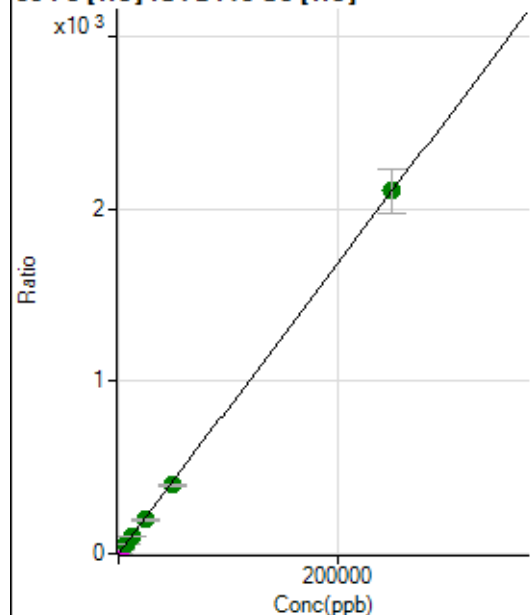
$$R = 1.0000$$

$$DL = 0.132$$

$$BEC = 0.1149$$

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	2515.08	0.0383	P	4.6
2	☐	50.000	48.204	28935.18	0.4429	P	2.3
3	☐	2500.000	2412.599	1371592.54	20.2904	M	1.5
4	☐	6250.000	6141.670	3414545.76	51.5935	A	1.7
5	☐	12500.000	11987.104	6679006.57	100.6620	A	3.3
6	☐	25000.000	23655.558	13213641.50	198.6108	A	3.8
7	☐	50000.000	47304.114	26375940.41	397.1247	A	1.1
8	☐	250000.00	250702.84	126318275.0	2,104.521	A	12.0

$$y = 0.0084 * x + 0.0383$$

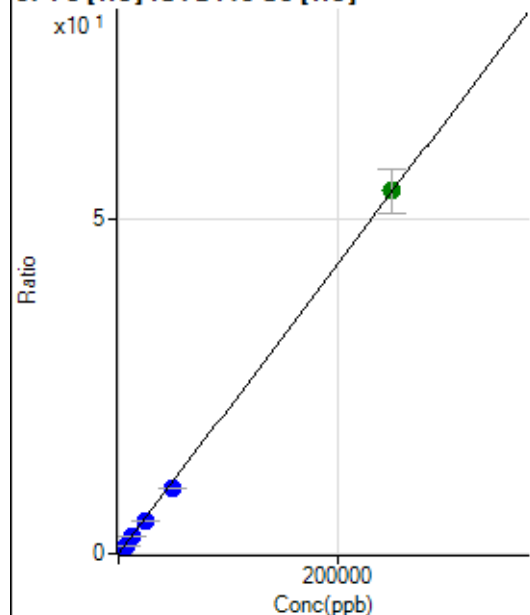
$$R = 0.9999$$

$$DL = 0.6237$$

$$BEC = 4.557$$

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	220.38	0.0033	P	11.6
2	☐	50.000	50.006	922.27	0.0141	P	4.4
3	☐	2500.000	2307.794	33834.89	0.5005	P	2.2
4	☐	6250.000	5793.104	82808.39	1.2514	P	3.9
5	☐	12500.000	11620.623	166327.68	2.5069	P	2.6
6	☐	25000.000	22948.667	329125.49	4.9474	P	1.4
7	☐	50000.000	45092.652	645437.81	9.7180	P	1.2
8	☐	250000.00	251243.91	3248261.53	54.1309	A	12.3

$$y = 2.1544\text{E-}004 * x + 0.0033$$

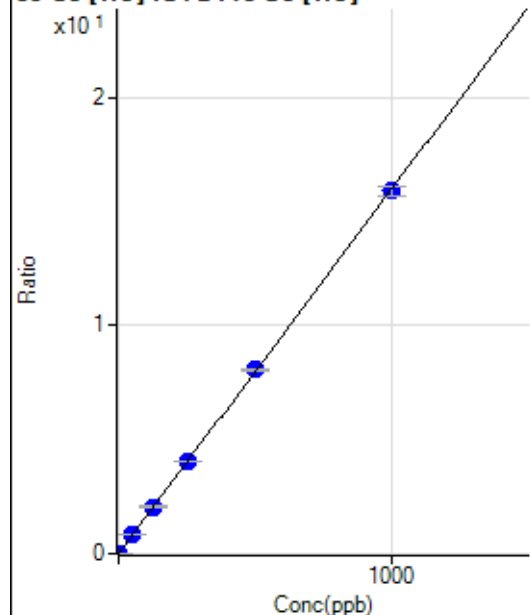
$$R = 0.9998$$

$$DL = 5.4$$

$$BEC = 15.54$$

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	56.67	0.0009	P	12.4
2	☐	1.000	1.078	1182.29	0.0181	P	2.6
3	☐	50.000	51.083	55231.19	0.8171	P	1.5
4	☐	125.000	127.476	134831.60	2.0378	P	4.7
5	☐	250.000	253.851	269195.37	4.0571	P	1.1
6	☐	500.000	505.804	537727.30	8.0829	P	1.4
7	☐	1000.000	995.771	1056806.27	15.9119	P	2.3
8	☐			1111.17	0.0185	P	12.5

$$y = 0.0160 * x + 8.6344\text{E-}004$$

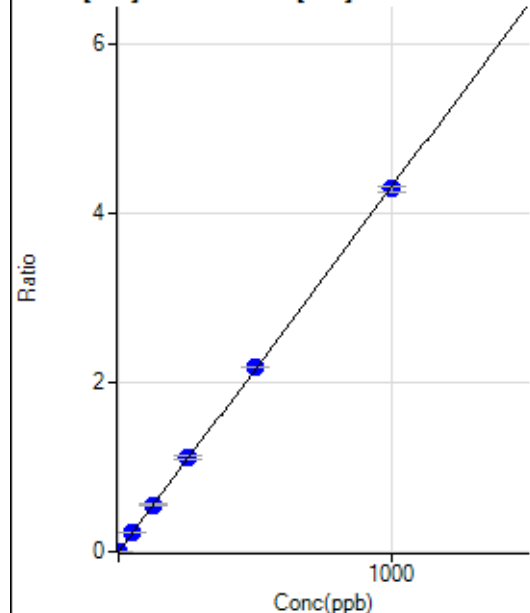
$$R = 1.0000$$

$$DL = 0.02008$$

$$BEC = 0.05404$$

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	38.89	0.0006	P	26.5
2	☐	1.000	1.080	343.34	0.0052	P	16.0
3	☐	50.000	51.327	15003.58	0.2220	P	0.5
4	☐	125.000	128.585	36738.60	0.5552	P	3.8
5	☐	250.000	258.614	74047.39	1.1160	P	2.8
6	☐	500.000	505.299	145028.24	2.1800	P	0.7
7	☐	1000.000	994.683	284982.44	4.2908	P	1.9
8	☐			1147.84	0.0191	P	8.3

$$y = 0.0043 * x + 5.9224E-004$$

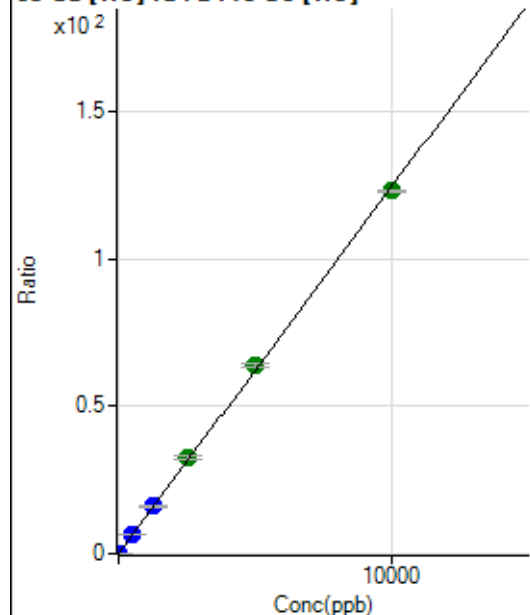
$$R = 0.9999$$

$$DL = 0.1092$$

$$BEC = 0.1373$$

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	543.35	0.0083	P	3.9
2	☐	2.000	2.119	2262.43	0.0346	P	5.7
3	☐	500.000	508.138	427622.37	6.3264	P	1.2
4	☐	1250.000	1284.614	1057565.63	15.9811	P	2.8
5	☐	2500.000	2640.491	2178840.68	32.8399	A	3.5
6	☐	5000.000	5135.184	4248286.74	63.8587	A	2.1
7	☐	10000.000	9892.551	8169999.67	123.0114	A	0.8
8	☐			4807.55	0.0799	P	9.4

$$y = 0.0124 * x + 0.0083$$

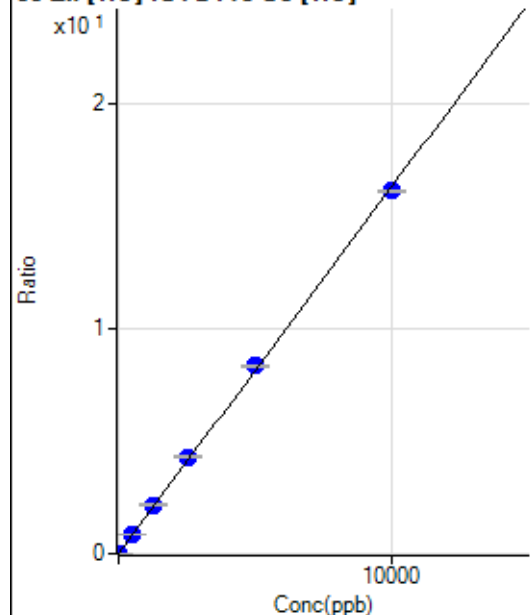
$$R = 0.9997$$

$$DL = 0.07874$$

$$BEC = 0.6649$$

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	124.45	0.0019	P	8.6
2	☐	2.000	1.933	330.01	0.0050	P	23.0
3	☐	500.000	531.732	58712.21	0.8686	P	1.2
4	☐	1250.000	1328.443	143416.73	2.1671	P	2.4
5	☐	2500.000	2638.049	285400.31	4.3017	P	3.2
6	☐	5000.000	5117.980	555075.38	8.3437	P	0.9
7	☐	10000.000	9895.106	1071270.74	16.1300	P	0.5
8	☐			1430.09	0.0239	P	18.4

$$y = 0.0016 * x + 0.0019$$

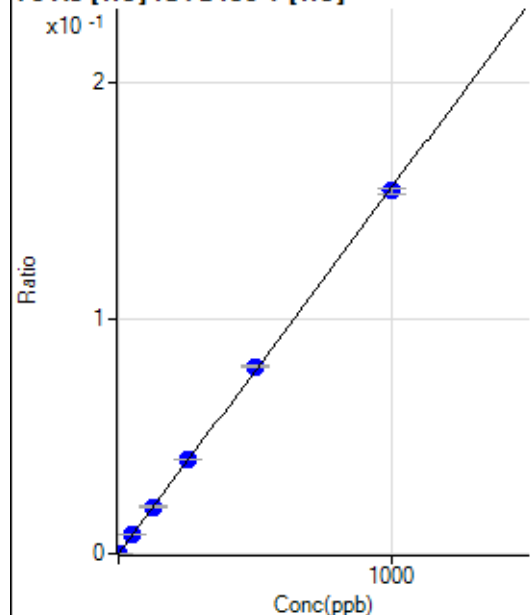
$$R = 0.9998$$

$$DL = 0.2988$$

$$BEC = 1.159$$

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	2.67	0.0000	P	42.7
2	☐	1.000	1.201	90.68	0.0002	P	22.8
3	☐	50.000	52.171	3872.26	0.0081	P	1.0
4	☐	125.000	128.587	9504.16	0.0200	P	2.4
5	☐	250.000	258.033	18990.97	0.0401	P	1.0
6	☐	500.000	512.073	37846.49	0.0796	P	0.9
7	☐	1000.000	991.398	74329.34	0.1542	P	1.7
8	☐			39.00	0.0001	P	20.4

$$y = 1.5550E-004 * x + 5.6725E-006$$

$$R = 0.9999$$

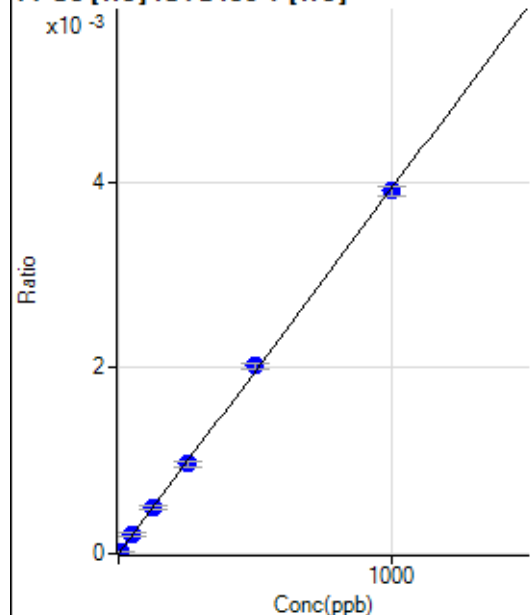
$$DL = 0.04672$$

$$BEC = 0.03648$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.990	11.11	0.0000	P	34.3
3	☐	50.000	53.268	100.00	0.0002	P	19.4
4	☐	125.000	124.878	233.34	0.0005	P	8.7
5	☐	250.000	245.002	455.57	0.0010	P	6.1
6	☐	500.000	514.539	961.15	0.0020	P	3.6
7	☐	1000.000	993.827	1883.48	0.0039	P	2.8
8	☐			1.11	0.0000	P	173.2

$$y = 3.9307\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

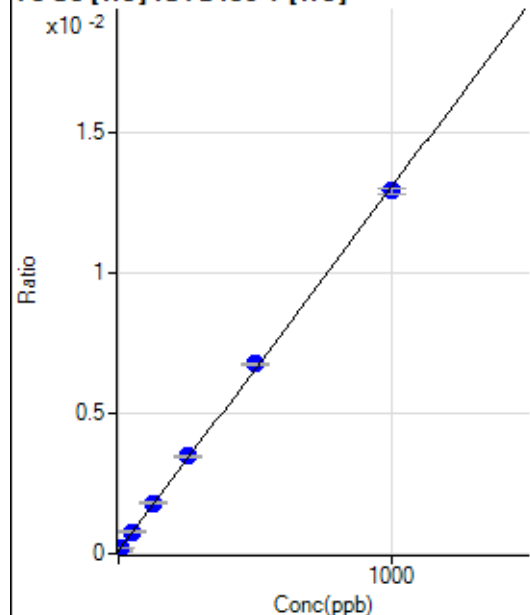
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.34	0.0001	P	21.3
2	☐	5.000	6.055	84.34	0.0002	P	8.4
3	☐	50.000	52.990	375.38	0.0008	P	4.2
4	☐	125.000	131.814	859.11	0.0018	P	2.2
5	☐	250.000	260.520	1644.27	0.0035	P	2.7
6	☐	500.000	513.345	3207.69	0.0067	P	1.3
7	☐	1000.000	989.691	6228.67	0.0129	P	1.4
8	☐			51.68	0.0001	P	14.0

$$y = 1.2953\text{E-}005 * x + 1.0056\text{E-}004$$

$$R = 0.9998$$

$$DL = 4.955$$

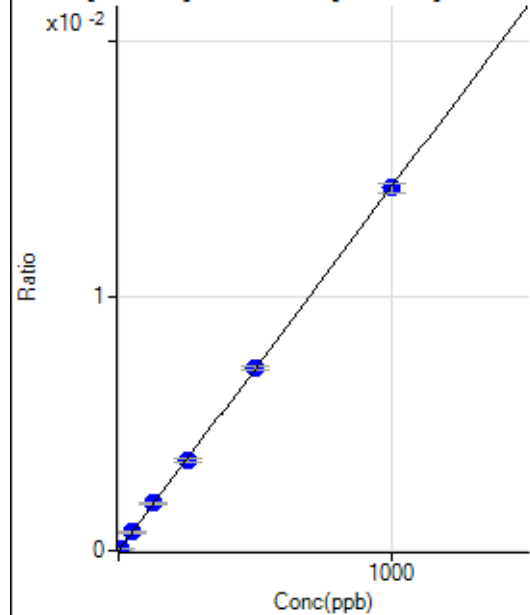
$$BEC = 7.764$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25416.10		P	1.1
2	☐			24276.01		P	1.5
3	☐			24774.26		P	1.2
4	☐			24302.91		P	3.2
5	☐			24650.49		P	3.6
6	☐			24182.50		P	2.3
7	☐			24550.11		P	0.6
8	☐			22895.62		P	2.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-2.50	0.0000	P	-503.
2	☐	5.000	5.355	272.48	0.0001	P	12.5
3	☐	50.000	51.336	2702.06	0.0007	P	5.6
4	☐	125.000	129.684	6690.47	0.0019	P	1.7
5	☐	250.000	249.958	13120.56	0.0036	P	4.2
6	☐	500.000	503.991	26653.18	0.0072	P	1.9
7	☐	1000.000	997.361	52339.94	0.0142	P	2.5
8	☐			89.99	0.0000	P	12.8

$$y = 1.4281E-005 * x - 7.2885E-007$$

$$R = 1.0000$$

$$DL = 0.7707$$

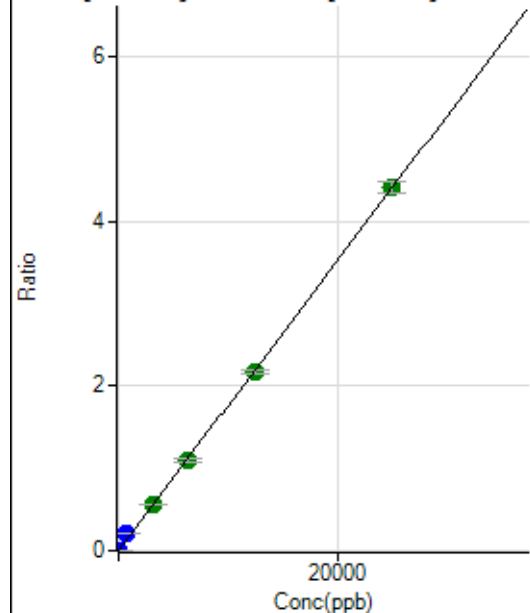
$$BEC = -0.05104$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			252.47		P	5.2
2	☐			247.47		P	8.5
3	☐			245.81		P	12.6
4	☐			236.22		P	6.6
5	☐			242.47		P	7.9
6	☐			255.39		P	12.3
7	☐			241.22		P	5.4
8	☐			243.72		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	425.02	0.0001	P	9.3
2	☐	1.000	0.877	986.17	0.0003	P	7.9
3	☐	625.000	1238.954	803414.95	0.2178	P	0.9
4	☐	3125.000	3187.327	2023984.81	0.5600	A	0.8
5	☐	6250.000	6208.872	4010968.01	1.0908	A	3.5
6	☐	12500.000	12352.411	8037261.73	2.1701	A	1.4
7	☐	25000.000	25060.936	16177266.68	4.4026	A	3.1
8	☐			13746.38	0.0037	P	61.9

$$y = 1.7567E-004 * x + 1.2001E-004$$

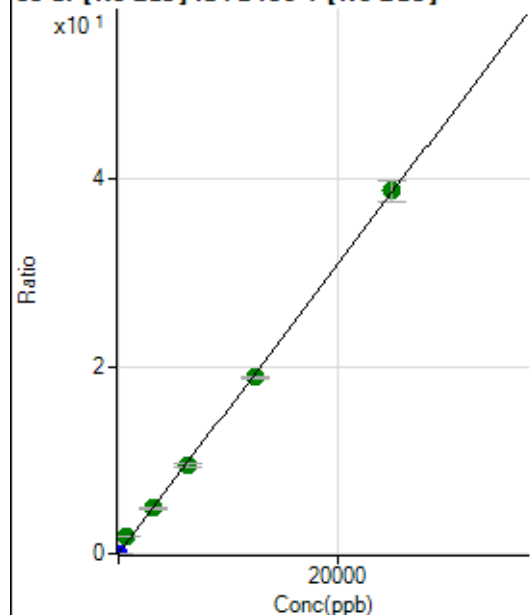
$$R = 0.9997$$

$$DL = 0.1907$$

$$BEC = 0.6832$$

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	150.01	0.0000	P	21.0
2	☐	1.000	0.976	5556.83	0.0015	P	1.4
3	☐	625.000	1222.863	6939877.07	1.8811	A	1.2
4	☐	3125.000	3142.003	17467940.84	4.8332	A	0.7
5	☐	6250.000	6103.139	34525477.86	9.3881	A	3.3
6	☐	12500.000	12216.293	69600333.50	18.7915	A	0.9
7	☐	25000.000	25161.497	142134796.2	38.7042	A	6.0
8	☐			118875.52	0.0324	P	60.4

$$y = 0.0015 * x + 4.2399E-005$$

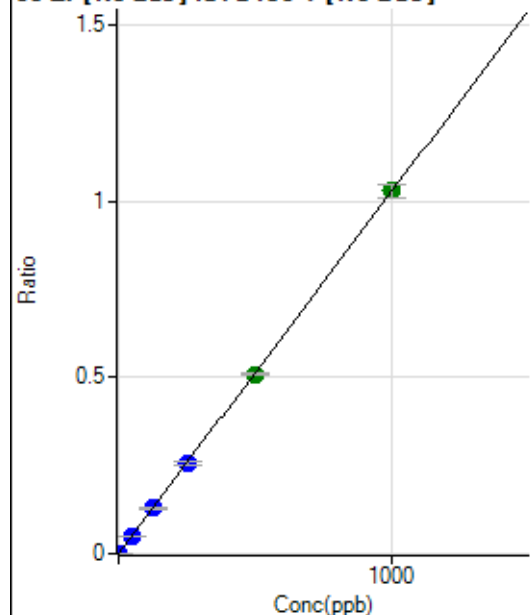
$$R = 0.9995$$

$$DL = 0.01733$$

$$BEC = 0.02756$$

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	163.89	0.0000	P	2.9
2	☐	1.000	0.991	3828.39	0.0011	P	8.6
3	☐	50.000	49.794	188817.90	0.0512	P	0.5
4	☐	125.000	125.229	464910.92	0.1286	P	0.7
5	☐	250.000	249.043	940684.74	0.2558	P	2.7
6	☐	500.000	495.924	1886376.69	0.5093	A	1.2
7	☐	1000.000	1002.259	3782209.11	1.0293	A	3.5
8	☐			3134.15	0.0009	P	63.5

$$y = 0.0010 * x + 4.6259E-005$$

$$R = 1.0000$$

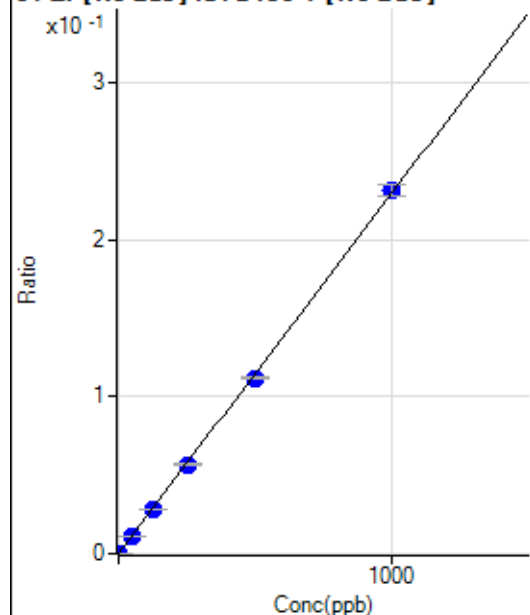
$$DL = 0.003942$$

$$BEC = 0.04505$$

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	25.00	0.0000	P	67.3
2	☐	1.000	0.827	708.37	0.0002	P	10.0
3	☐	50.000	48.910	41443.01	0.0112	P	1.4
4	☐	125.000	124.360	103176.05	0.0286	P	1.4
5	☐	250.000	246.599	208205.53	0.0566	P	2.7
6	☐	500.000	487.301	414314.22	0.1119	P	1.3
7	☐	1000.000	1007.334	849592.28	0.2312	P	3.1
8	☐			555.59	0.0002	P	63.5

$$y = 2.2953\text{E-}004 * x + 7.0883\text{E-}006$$

$$R = 0.9999$$

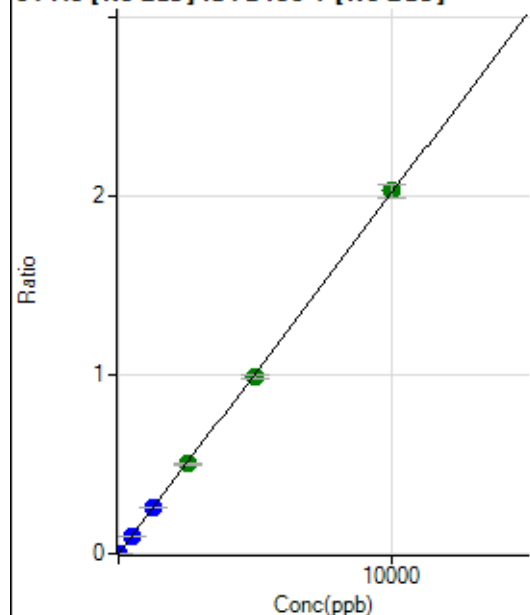
$$DL = 0.06236$$

$$BEC = 0.03088$$

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	75.00	0.0000	P	22.1
2	☐	5.000	6.028	4453.61	0.0012	P	8.9
3	☐	500.000	501.175	373224.22	0.1012	P	1.2
4	☐	1250.000	1258.302	917810.97	0.2540	P	0.8
5	☐	2500.000	2479.573	1840217.73	0.5004	A	3.1
6	☐	5000.000	4896.653	3660373.39	0.9882	A	1.4
7	☐	10000.000	10055.683	7456409.72	2.0294	A	3.4
8	☐			6450.34	0.0018	P	62.0

$$y = 2.0181\text{E-}004 * x + 2.1159\text{E-}005$$

$$R = 0.9999$$

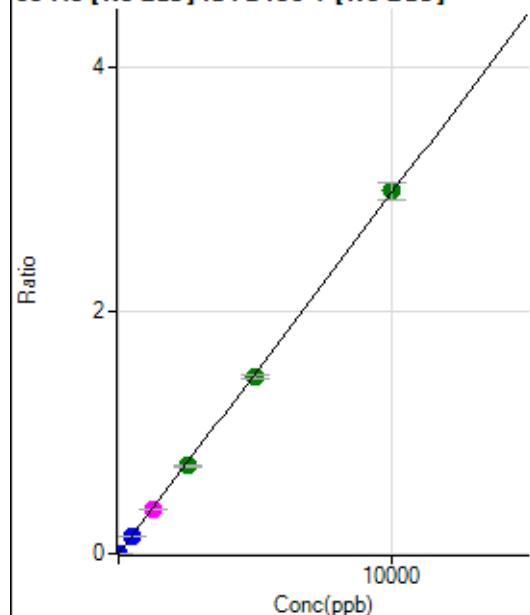
$$DL = 0.06938$$

$$BEC = 0.1048$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.5
2	☐	5.000	5.160	5517.90	0.0015	P	3.0
3	☐	500.000	482.771	527818.46	0.1431	P	0.9
4	☐	1250.000	1241.888	1329995.83	0.3680	M	1.2
5	☐	2500.000	2441.523	2660800.54	0.7235	A	2.7
6	☐	5000.000	4897.915	5375474.95	1.4515	A	1.9
7	☐	10000.000	10067.537	10958438.35	2.9835	A	4.8
8	☐			8858.40	0.0024	P	60.3

$$y = 2.9634\text{E-}004 * x + 3.9402\text{E-}006$$

$$R = 0.9999$$

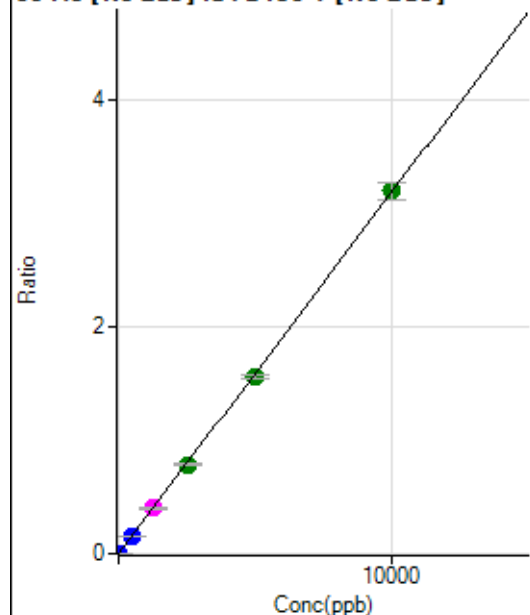
$$DL = 0.0365$$

$$BEC = 0.0133$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0000	P	26.8
2	☐	5.000	5.039	5845.82	0.0016	P	4.3
3	☐	500.000	495.602	580947.99	0.1575	P	1.0
4	☐	1250.000	1251.821	1437234.06	0.3977	M	1.3
5	☐	2500.000	2472.336	2889200.97	0.7855	A	1.8
6	☐	5000.000	4918.827	5787209.51	1.5627	A	2.0
7	☐	10000.000	10047.495	11724530.38	3.1920	A	4.7
8	☐			12914.99	0.0035	P	43.7

$$y = 3.1769\text{E-}004 * x + 2.3539\text{E-}005$$

$$R = 0.9999$$

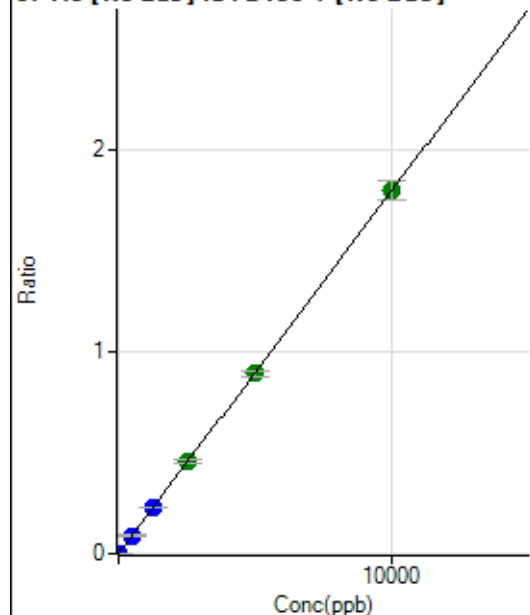
$$DL = 0.05962$$

$$BEC = 0.0741$$

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	13.89	0.0000	P	34.1
2	☐	5.000	5.345	3461.63	0.0010	P	4.4
3	☐	500.000	502.851	332417.10	0.0901	P	0.9
4	☐	1250.000	1262.970	817800.20	0.2263	P	1.8
5	☐	2500.000	2527.649	1665239.86	0.4529	A	3.6
6	☐	5000.000	4973.059	3299760.51	0.8911	A	3.1
7	☐	10000.000	10004.794	6584278.31	1.7926	A	5.2
8	☐			5613.28	0.0015	P	60.0

$$y = 1.7918\text{E-}004 * x + 3.9136\text{E-}006$$

$$R = 1.0000$$

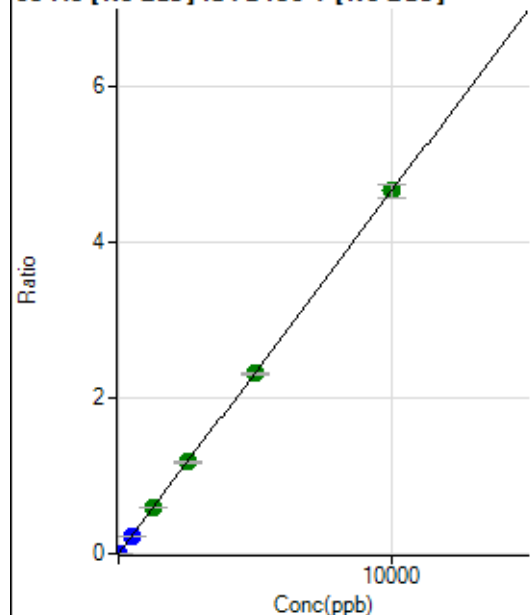
$$DL = 0.02236$$

$$BEC = 0.02184$$

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	13.89	0.0000	P	34.5
2	☐	5.000	5.245	8791.94	0.0024	P	3.3
3	☐	500.000	498.504	855304.68	0.2318	P	0.5
4	☐	1250.000	1264.137	2124509.64	0.5879	A	2.2
5	☐	2500.000	2542.768	4349314.46	1.1825	A	2.3
6	☐	5000.000	4960.777	8544163.82	2.3070	A	2.0
7	☐	10000.000	10007.227	17098729.20	4.6539	A	3.8
8	☐			13980.16	0.0038	P	57.8

$$y = 4.6506\text{E-}004 * x + 3.9187\text{E-}006$$

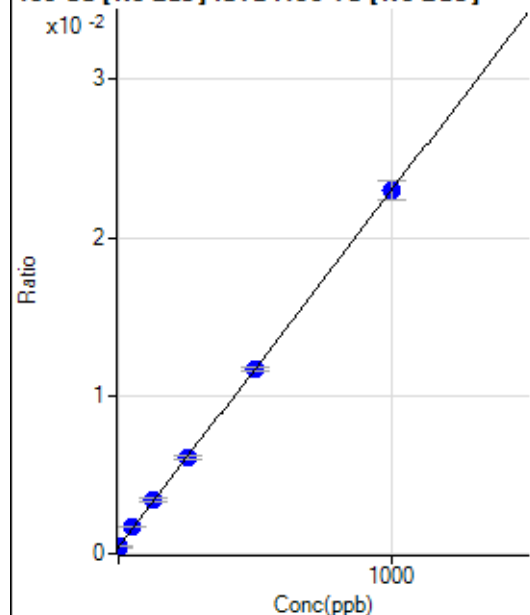
$$R = 1.0000$$

$$DL = 0.008731$$

$$BEC = 0.008426$$

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	1144.52	0.0004	P	1.5
2	☐	1.000	2.776	1305.65	0.0005	P	11.6
3	☐	50.000	56.380	4623.13	0.0017	P	6.0
4	☐	125.000	131.722	9131.05	0.0034	P	5.4
5	☐	250.000	252.321	16913.62	0.0061	P	3.8
6	☐	500.000	499.638	33714.21	0.0117	P	1.8
7	☐	1000.000	998.440	64096.76	0.0229	P	5.4
8	☐			1230.65	0.0004	P	12.5

$$y = 2.2552E-005 * x + 4.2370E-004$$

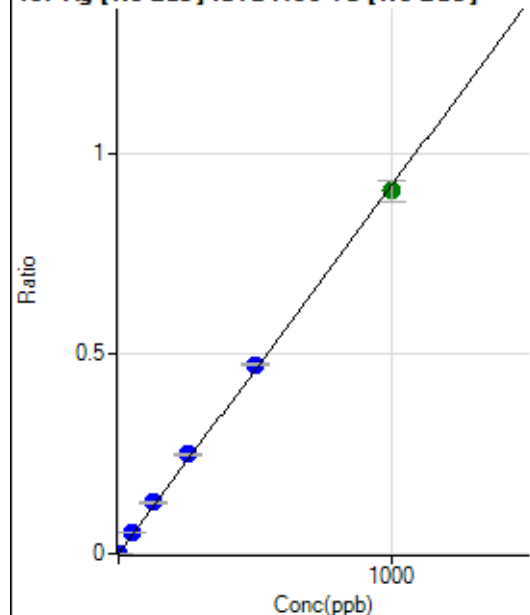
$$R = 1.0000$$

$$DL = 0.8501$$

$$BEC = 18.79$$

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	97.23	0.0000	P	34.6
2	☐	1.000	1.195	3044.86	0.0011	P	6.0
3	☐	50.000	55.862	140082.73	0.0513	P	2.6
4	☐	125.000	139.099	343543.74	0.1278	P	4.1
5	☐	250.000	270.089	686486.42	0.2481	P	2.0
6	☐	500.000	513.418	1359592.93	0.4716	P	1.1
7	☐	1000.000	986.213	2530983.98	0.9058	A	5.6
8	☐			2969.94	0.0011	P	29.9

$$y = 9.1843E-004 * x + 3.5897E-005$$

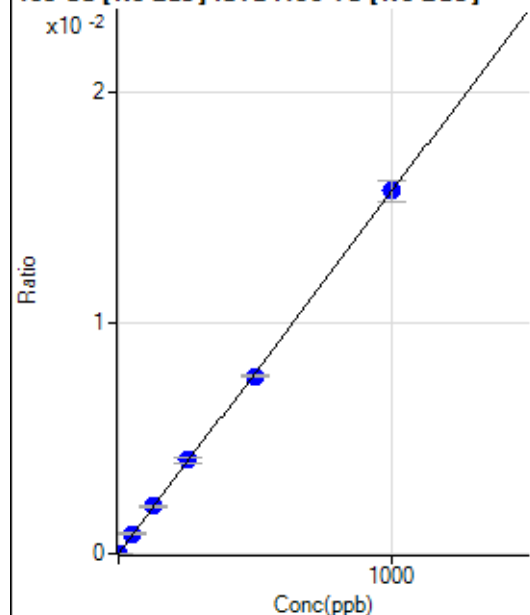
$$R = 0.9996$$

$$DL = 0.0406$$

$$BEC = 0.03908$$

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	16.67	0.0000	P	1.7
2	☐	1.000	1.089	62.50	0.0000	P	6.2
3	☐	50.000	53.764	2318.28	0.0009	P	8.1
4	☐	125.000	130.590	5530.35	0.0021	P	2.2
5	☐	250.000	257.864	11215.82	0.0041	P	4.8
6	☐	500.000	490.566	22222.20	0.0077	P	0.8
7	☐	1000.000	1001.864	43950.66	0.0157	P	5.9
8	☐			44.45	0.0000	P	41.7

$$y = 1.5699\text{E-}005 * x + 6.1724\text{E-}006$$

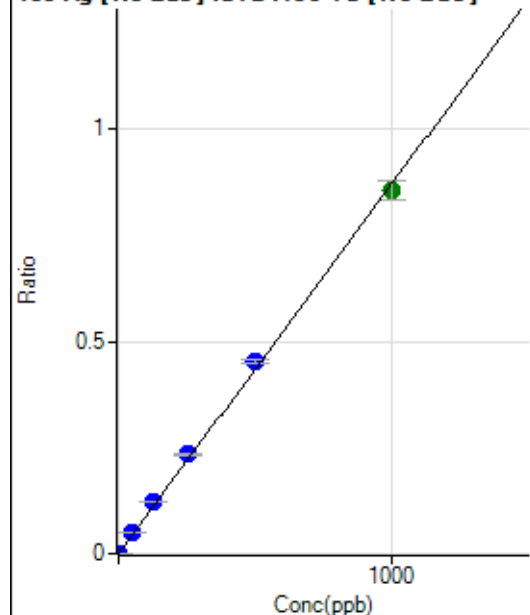
$$R = 0.9999$$

$$DL = 0.02009$$

$$BEC = 0.3932$$

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	58.33	0.0000	P	12.8
2	☐	1.000	1.159	2767.02	0.0010	P	7.3
3	☐	50.000	55.795	132541.84	0.0486	P	3.1
4	☐	125.000	140.557	328972.53	0.1223	P	3.5
5	☐	250.000	270.580	651770.99	0.2355	P	2.0
6	☐	500.000	520.569	1306246.98	0.4531	P	1.2
7	☐	1000.000	982.336	2388808.62	0.8550	A	5.3
8	☐			2792.12	0.0010	P	36.7

$$y = 8.7030\text{E-}004 * x + 2.1569\text{E-}005$$

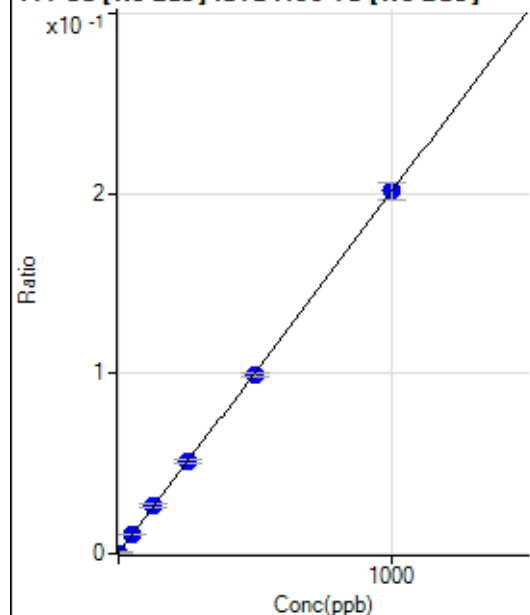
$$R = 0.9994$$

$$DL = 0.009529$$

$$BEC = 0.02478$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	800.61	0.0003	P	2.1
2	☐	1.000	1.183	1434.12	0.0005	P	6.4
3	☐	50.000	51.981	29302.55	0.0107	P	3.3
4	☐	125.000	132.162	72169.60	0.0269	P	5.3
5	☐	250.000	254.204	142132.16	0.0514	P	2.5
6	☐	500.000	492.172	285948.67	0.0992	P	1.6
7	☐	1000.000	1001.869	563405.63	0.2016	P	4.6
8	☐			1292.86	0.0005	P	28.1

$$y = 2.0092\text{E-}004 * x + 2.9639\text{E-}004$$

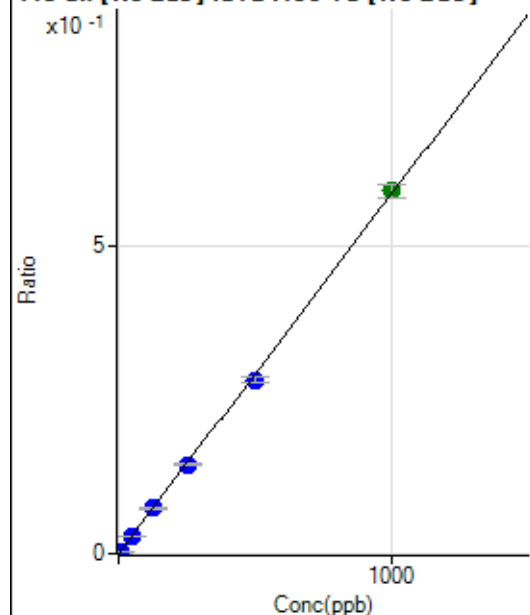
$$R = 0.9999$$

$$DL = 0.09127$$

$$BEC = 1.475$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	158.34	0.0001	P	31.3
2	☐	5.000	5.042	8055.37	0.0030	P	2.7
3	☐	50.000	49.643	79160.48	0.0290	P	2.4
4	☐	125.000	126.359	198367.76	0.0738	P	2.3
5	☐	250.000	247.264	399265.61	0.1443	P	1.4
6	☐	500.000	483.708	813459.54	0.2822	P	2.7
7	☐	1000.000	1008.678	1644770.86	0.5884	A	3.7
8	☐			2880.99	0.0010	P	28.6

$$y = 5.8325\text{E-}004 * x + 5.8510\text{E-}005$$

$$R = 0.9998$$

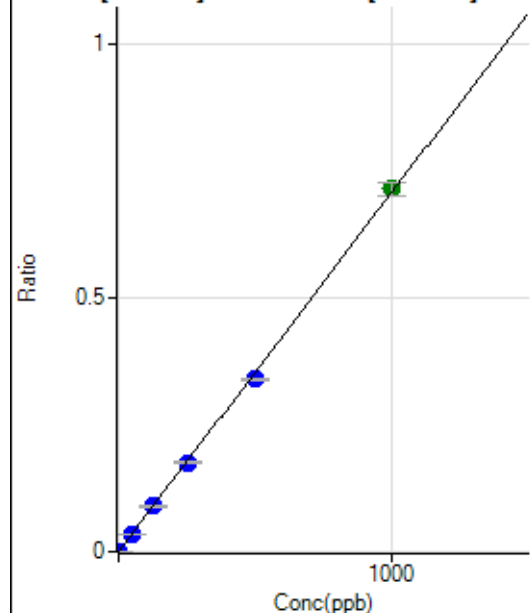
$$DL = 0.09417$$

$$BEC = 0.1003$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.1
2	☐	2.000	2.044	3884.01	0.0014	P	9.1
3	☐	50.000	49.091	94542.10	0.0347	P	3.6
4	☐	125.000	126.160	239411.22	0.0891	P	4.3
5	☐	250.000	247.029	482523.92	0.1744	P	1.8
6	☐	500.000	480.113	977096.62	0.3389	P	1.2
7	☐	1000.000	1010.587	1994229.19	0.7134	A	3.6
8	☐			2633.73	0.0009	P	38.2

$$y = 7.0589\text{E-}004 * x + 3.0549\text{E-}006$$

$$R = 0.9997$$

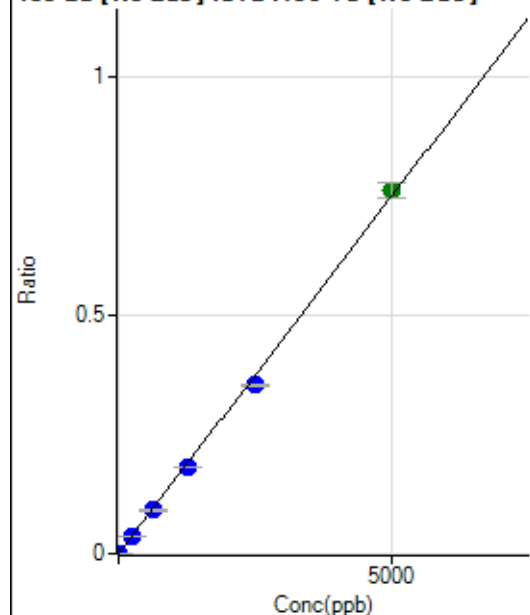
$$DL = 0.01286$$

$$BEC = 0.004328$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	57.6
2	☐	10.000	9.933	4020.16	0.0015	P	3.5
3	☐	250.000	239.967	98147.42	0.0360	P	1.7
4	☐	625.000	613.856	247364.71	0.0920	P	2.8
5	☐	1250.000	1216.945	504640.81	0.1824	P	1.2
6	☐	2500.000	2362.116	1020437.74	0.3539	P	1.3
7	☐	5000.000	5079.100	2127077.02	0.7610	A	4.3
8	☐			2261.43	0.0008	P	42.1

$$y = 1.4984\text{E-}004 * x + 8.2161\text{E-}006$$

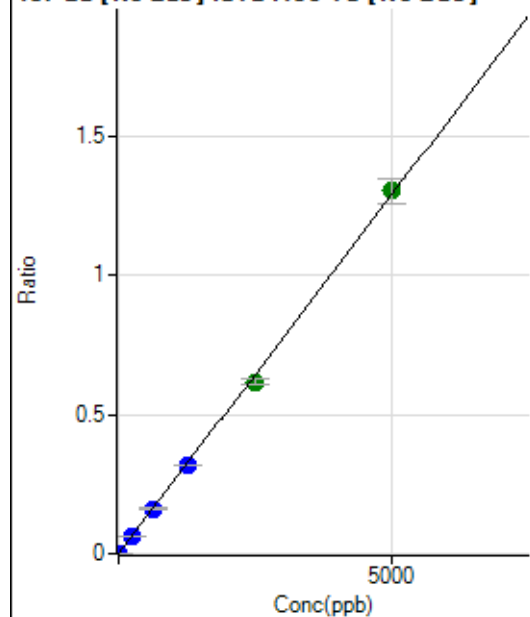
$$R = 0.9994$$

$$DL = 0.0947$$

$$BEC = 0.05483$$

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	13.89	0.0000	P	34.1
2	☐	10.000	9.939	6882.53	0.0026	P	2.9
3	☐	250.000	247.051	173441.87	0.0636	P	3.0
4	☐	625.000	625.830	433011.92	0.1610	P	3.1
5	☐	1250.000	1235.382	879569.63	0.3179	P	1.7
6	☐	2500.000	2390.610	1773354.25	0.6151	A	3.0
7	☐	5000.000	5058.394	3634642.79	1.3015	A	6.7
8	☐			4098.24	0.0015	P	41.6

$$y = 2.5730E-004 * x + 5.1333E-006$$

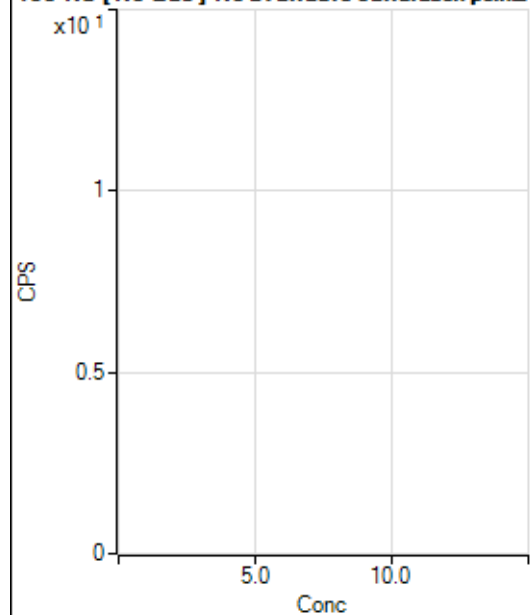
$$R = 0.9996$$

$$DL = 0.02042$$

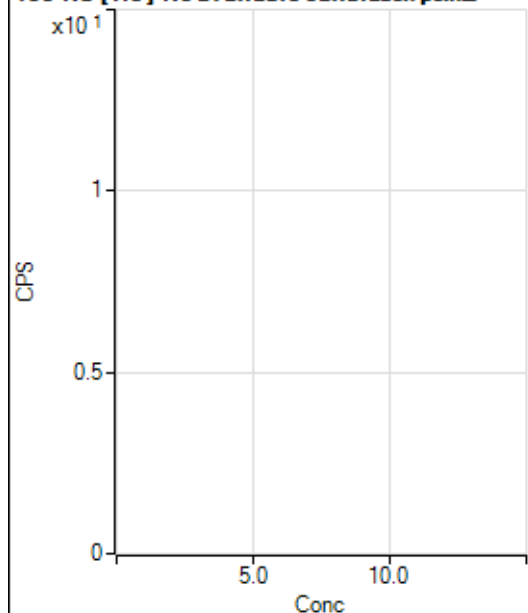
$$BEC = 0.01995$$

Weight: <None>

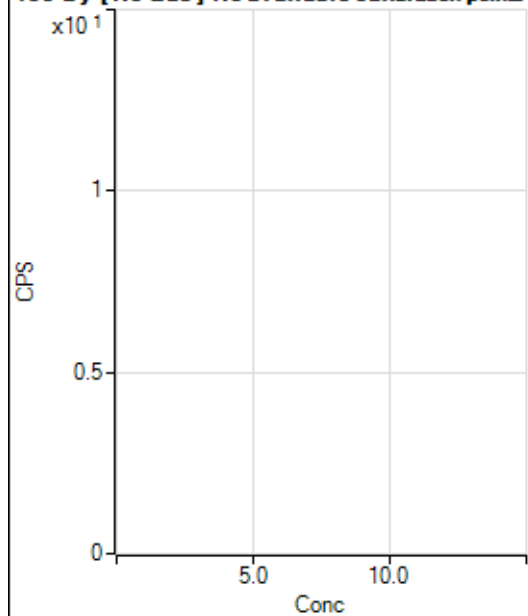
Min Conc: 0

150 Nd [No Gas] No available calibration points

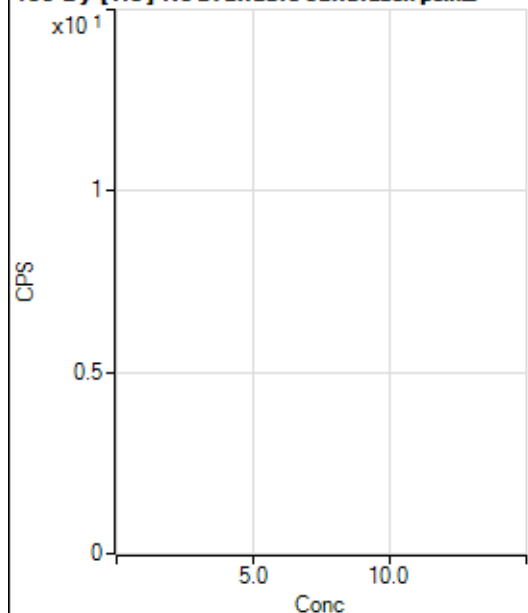
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			2.22		P	173.2
3	☐			15.55		P	107.9
4	☐			44.45		P	8.7
5	☐			44.45		P	37.7
6	☐			111.11		P	38.6
7	☐			197.78		P	27.5
8	☐			15.56		P	49.5

150 Nd [He] No available calibration points

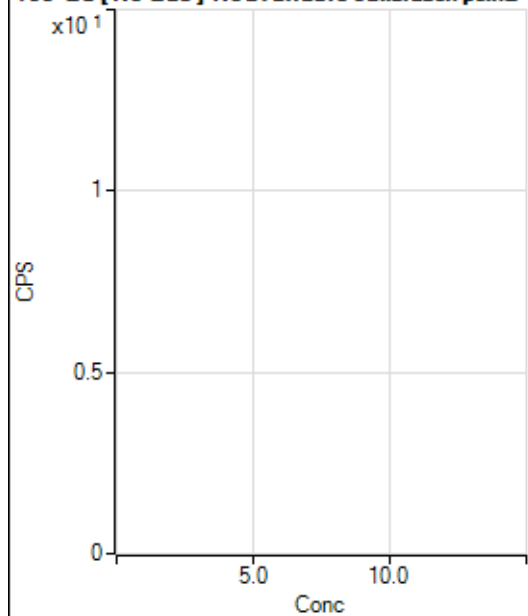
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			2.22		P	173.2
5	☐			7.78		P	24.7
6	☐			5.56		P	34.7
7	☐			27.78		P	13.9
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

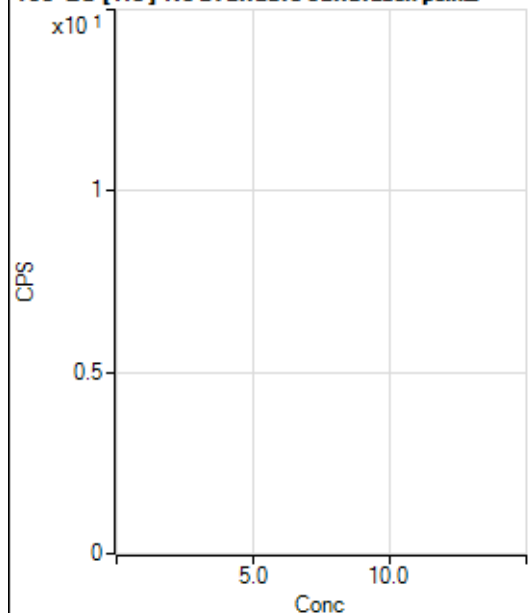
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐			5.55		P	86.6
3	☐			11.11		P	114.6
4	☐			22.22		P	43.3
5	☐			33.33		P	50.0
6	☐			83.34		P	34.6
7	☐			136.11		P	14.1
8	☐			386.13		P	19.3

156 Dy [He] No available calibration points

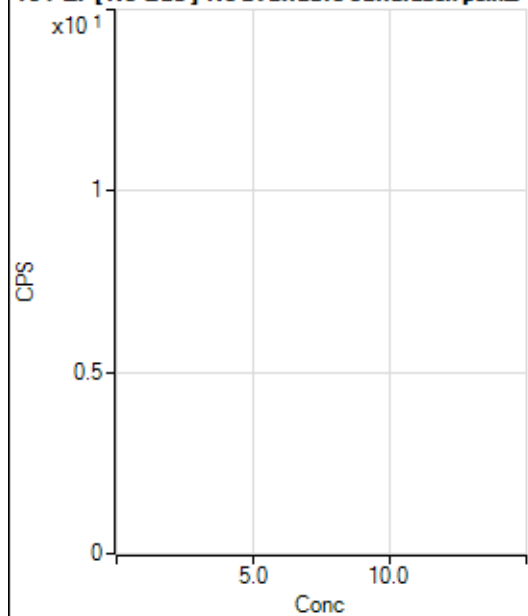
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			6.67		P	100.0
4	☐			3.33		P	100.1
5	☐			21.11		P	59.8
6	☐			31.11		P	16.4
7	☐			71.11		P	33.3
8	☐			175.56		P	9.4

160 Gd [No Gas] Noavailable calibration poin_

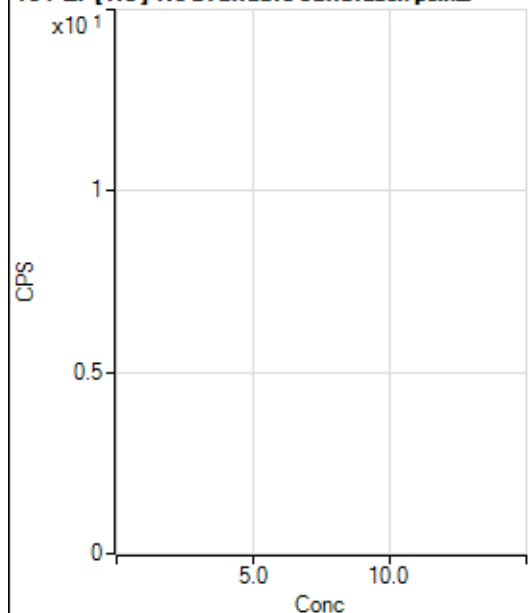
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	86.6
2	☐			19.44		P	89.2
3	☐			22.22		P	57.3
4	☐			33.33		P	43.3
5	☐			52.78		P	50.8
6	☐			55.56		P	56.8
7	☐			175.01		P	9.5
8	☐			433.35		P	11.5

160 Gd [He] No available calibration points

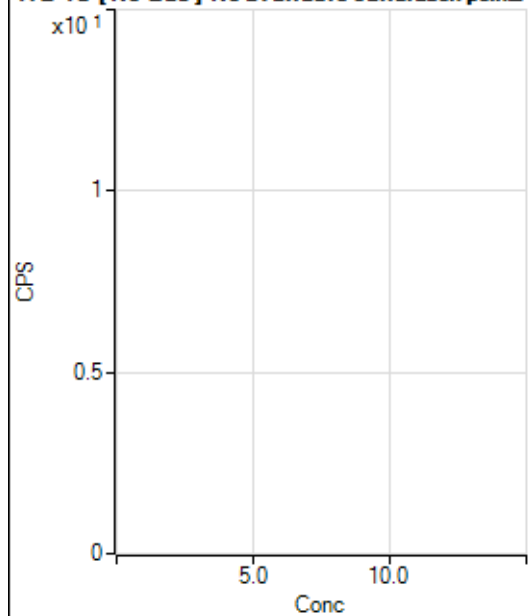
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	13.3
2	☐			36.66		P	41.7
3	☐			54.44		P	3.5
4	☐			42.22		P	35.6
5	☐			74.44		P	6.8
6	☐			67.78		P	20.5
7	☐			110.00		P	18.9
8	☐			276.67		P	13.7

164 Er [No Gas] No available calibration points

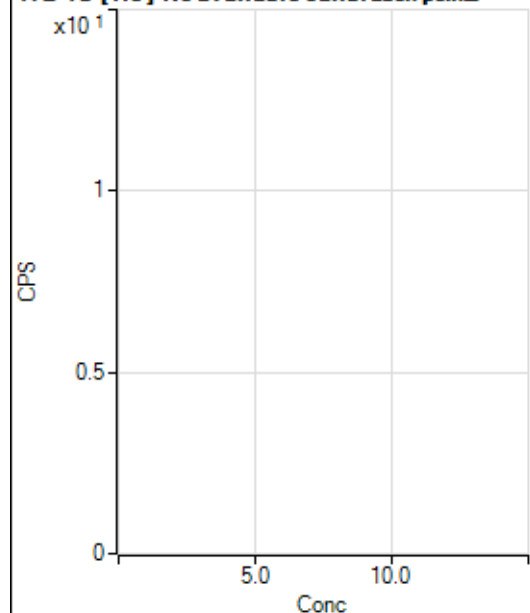
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	33.3
2	☐			27.78		P	69.3
3	☐			41.67		P	40.0
4	☐			27.78		P	17.3
5	☐			16.67		P	100.0
6	☐			33.33		P	75.0
7	☐			41.67		P	20.0
8	☐			47.22		P	44.4

164 Er [He] No available calibration points

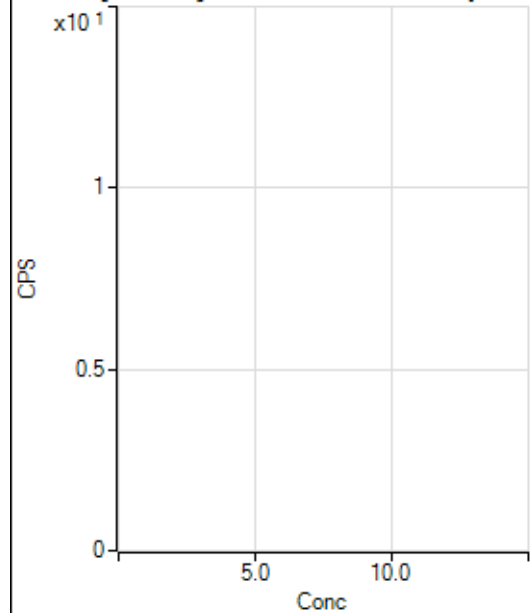
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			8.89		P	78.1
3	☐			7.78		P	24.7
4	☐			7.78		P	24.7
5	☐			7.78		P	65.5
6	☐			22.22		P	8.7
7	☐			31.11		P	37.6
8	☐			12.22		P	95.8

172 Yb [No Gas] No available calibration points

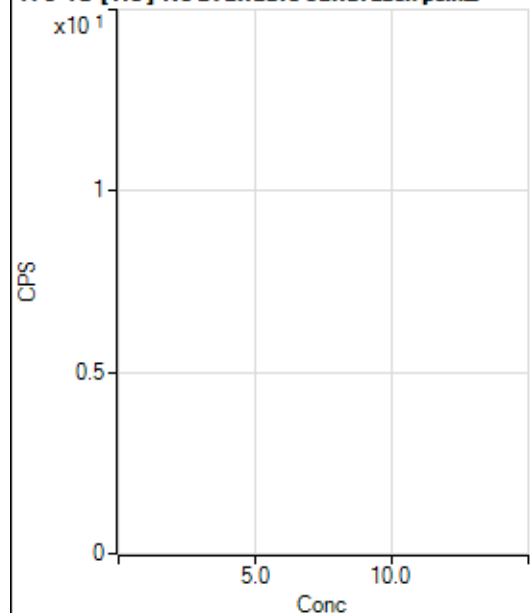
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	75.0
2	☐			11.11		P	86.6
3	☐			19.44		P	173.2
4	☐			36.11		P	74.2
5	☐			36.11		P	53.3
6	☐			41.67		P	52.9
7	☐			83.34		P	10.0
8	☐			197.23		P	4.9

172 Yb [He] No available calibration points

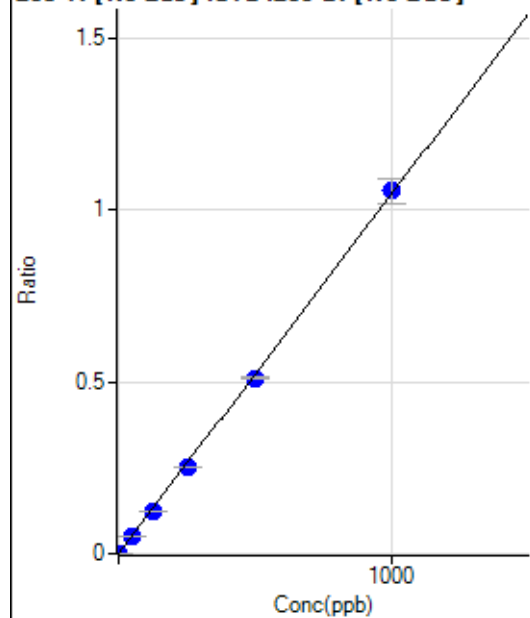
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.41		P	86.6
2	☐			7.41		P	86.6
3	☐			12.97		P	49.5
4	☐			18.52		P	17.3
5	☐			24.07		P	35.2
6	☐			16.67		P	145.3
7	☐			48.15		P	40.5
8	☐			75.93		P	47.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			350.02		P	10.4
2	☐			386.13		P	7.6
3	☐			636.15		P	6.5
4	☐			1113.97		P	5.7
5	☐			2097.45		P	2.3
6	☐			4114.65		P	4.0
7	☐			7905.37		P	1.9
8	☐			500.02		P	13.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3122.65		P	1.6
2	☐			3100.42		P	5.6
3	☐			3307.89		P	3.0
4	☐			3585.73		P	3.6
5	☐			4080.34		P	4.2
6	☐			4943.59		P	1.2
7	☐			7031.63		P	2.7
8	☐			2818.87		P	11.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.23	0.0001	P	47.8
2	☐	1.000	0.966	1539.02	0.0011	P	10.7
3	☐	50.000	47.515	72956.77	0.0498	P	1.3
4	☐	125.000	118.901	177946.35	0.1246	P	1.8
5	☐	250.000	240.367	376538.74	0.2518	P	1.6
6	☐	500.000	488.908	757411.81	0.5120	P	1.5
7	☐	1000.000	1008.841	1566755.45	1.0565	P	6.8
8	☐			1316.84	0.0010	P	64.5

$$y = 0.0010 * x + 5.0872E-005$$

$$R = 0.9999$$

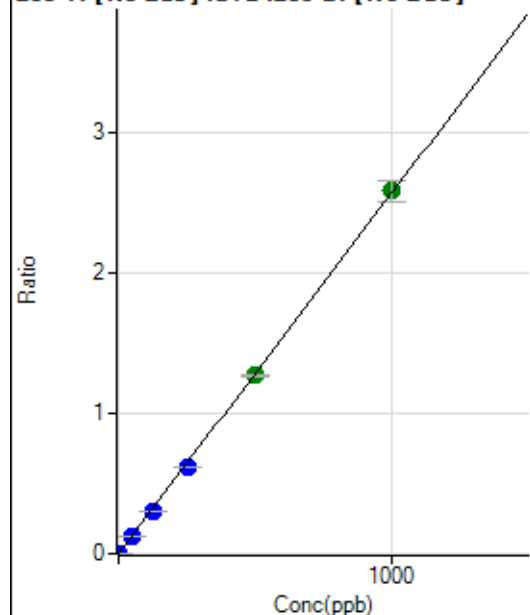
$$DL = 0.06965$$

$$BEC = 0.04858$$

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	152.78	0.0001	P	43.7
2	☐	1.000	0.978	3792.32	0.0026	P	7.4
3	☐	50.000	46.922	176406.41	0.1204	P	0.5
4	☐	125.000	118.181	433118.35	0.3032	P	1.0
5	☐	250.000	238.911	916605.18	0.6128	P	0.8
6	☐	500.000	493.915	1873982.16	1.2667	A	0.7
7	☐	1000.000	1006.821	3830656.55	2.5820	A	5.9
8	☐			2964.63	0.0022	P	62.2

$$y = 0.0026 * x + 1.0764E-004$$

$$R = 0.9999$$

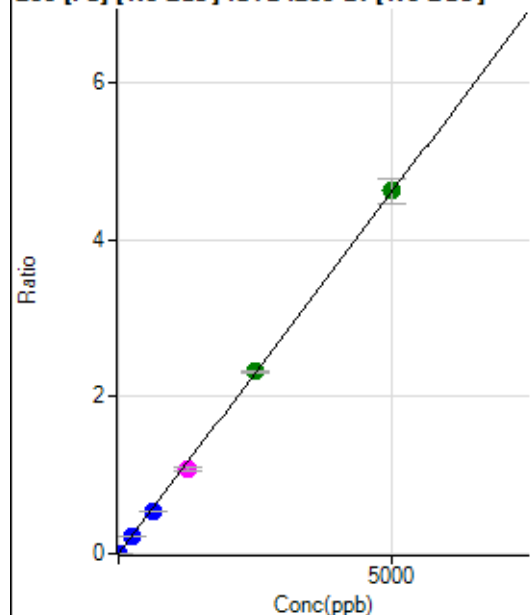
$$DL = 0.05499$$

$$BEC = 0.04198$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	225.93	0.0002	P	17.5
2	☐	1.000	0.895	1424.18	0.0010	P	6.1
3	☐	250.000	228.882	308730.88	0.2108	P	1.4
4	☐	625.000	581.419	764512.18	0.5351	P	1.1
5	☐	1250.000	1168.178	1607442.74	1.0750	M	3.5
6	☐	2500.000	2516.646	3425727.83	2.3158	A	1.6
7	☐	5000.000	5018.636	6848905.48	4.6179	A	6.7
8	☐			5446.63	0.0040	P	59.3

$$y = 9.2011E-004 * x + 1.5858E-004$$

$$R = 0.9998$$

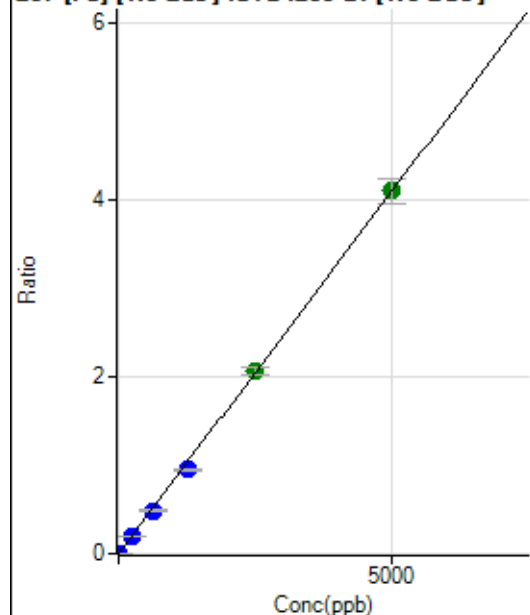
$$DL = 0.09042$$

$$BEC = 0.1723$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	179.63	0.0001	P	13.2
2	☐	1.000	0.943	1300.09	0.0009	P	9.4
3	☐	250.000	230.388	276372.36	0.1887	P	1.7
4	☐	625.000	592.727	693144.13	0.4852	P	1.8
5	☐	1250.000	1159.559	1419306.12	0.9490	P	2.4
6	☐	2500.000	2530.225	3062200.82	2.0707	A	3.8
7	☐	5000.000	5012.512	6084437.46	4.1021	A	6.7
8	☐			4720.19	0.0035	P	65.3

$$y = 8.1835\text{E-}004 * x + 1.2602\text{E-}004$$

$$R = 0.9998$$

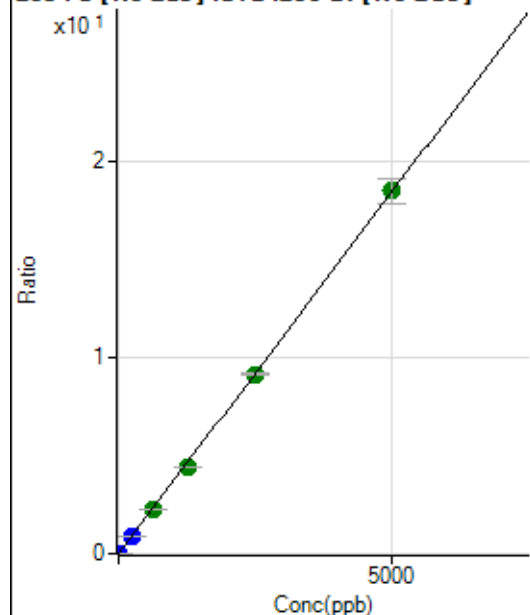
$$DL = 0.06093$$

$$BEC = 0.154$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	933.37	0.0007	P	8.6
2	☐	1.000	0.889	5687.62	0.0039	P	4.2
3	☐	250.000	230.427	1241120.58	0.8472	P	1.9
4	☐	625.000	607.659	3190346.86	2.2332	A	2.3
5	☐	1250.000	1198.104	6584092.49	4.4025	A	2.2
6	☐	2500.000	2485.888	13510941.82	9.1338	A	1.7
7	☐	5000.000	5023.176	27367801.02	18.4558	A	7.1
8	☐			21641.33	0.0158	P	62.1

$$y = 0.0037 * x + 6.5543\text{E-}004$$

$$R = 0.9999$$

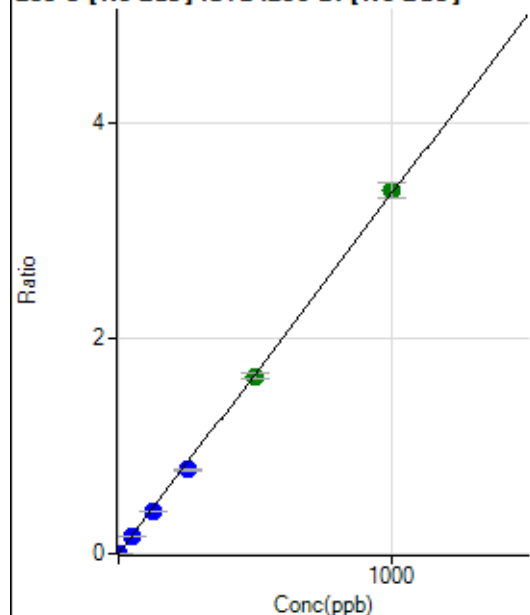
$$DL = 0.04616$$

$$BEC = 0.1784$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	12.5
2	☐	1.000	0.927	4525.93	0.0031	P	5.8
3	☐	50.000	46.811	228896.80	0.1563	P	0.5
4	☐	125.000	118.788	566451.22	0.3965	P	1.0
5	☐	250.000	233.878	1167732.57	0.7806	P	1.7
6	☐	500.000	492.826	2432756.30	1.6449	A	3.0
7	☐	1000.000	1008.554	4998463.83	3.3662	A	4.1
8	☐			2789.74	0.0020	P	80.9

$$y = 0.0033 * x + 2.5335E-005$$

$$R = 0.9998$$

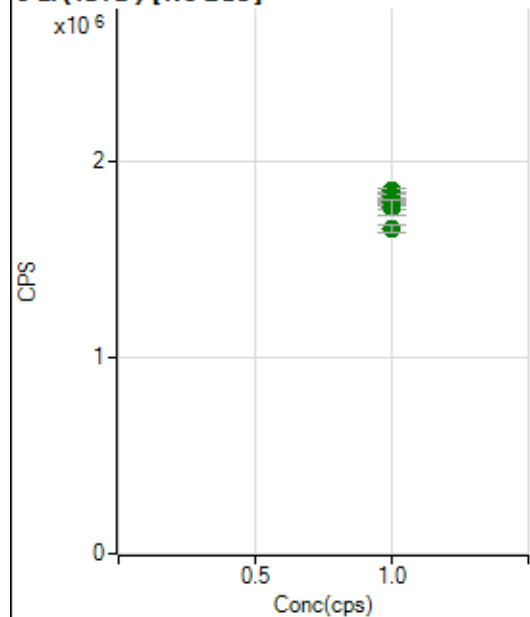
$$DL = 0.002841$$

$$BEC = 0.007591$$

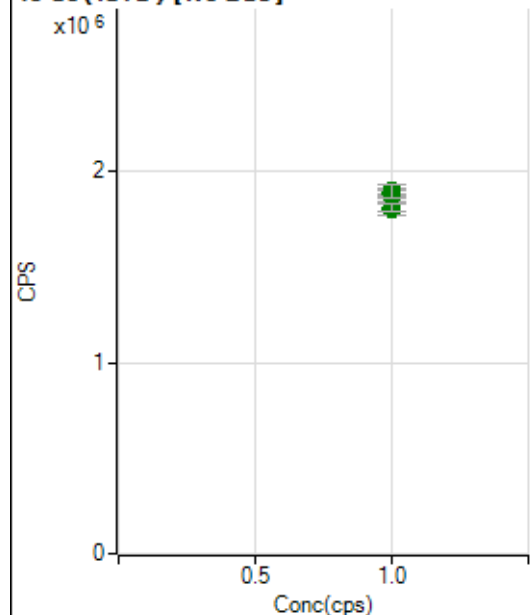
Weight: <None>

Min Conc: 0

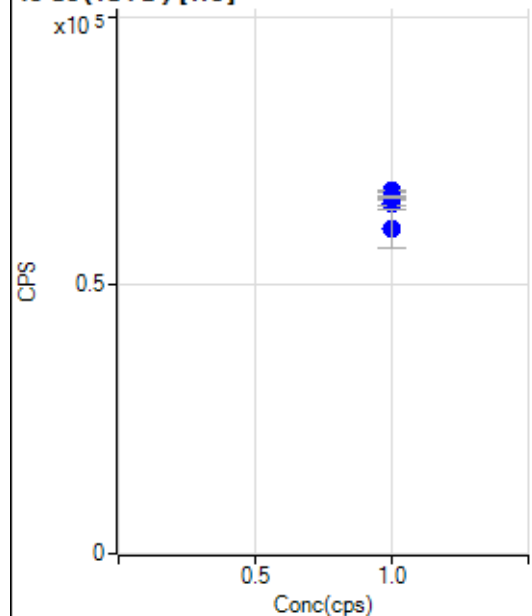
6 Li (ISTD) [No Gas]



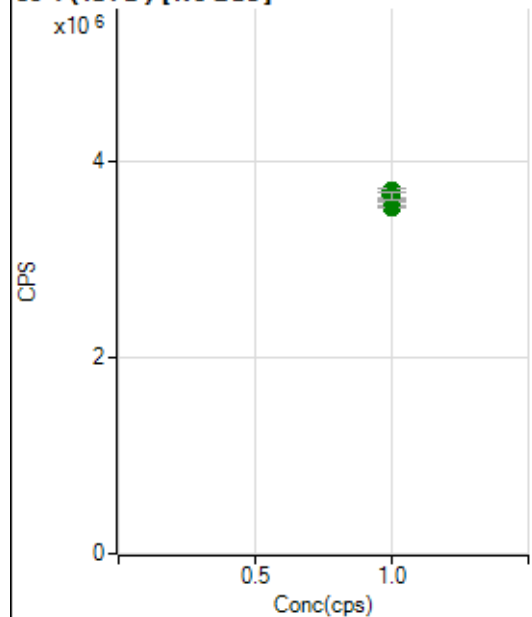
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1792655.33		A	0.1
2	☐	1.000		1828222.97		A	0.3
3	☐	1.000		1845869.43		A	1.0
4	☐	1.000		1768894.87		A	1.6
5	☐	1.000		1819284.99		A	1.1
6	☐	1.000		1788304.56		A	1.7
7	☐	1.000		1760054.28		A	4.2
8	☐	1.000		1655660.60		A	2.3

45 Sc (ISTD) [No Gas]

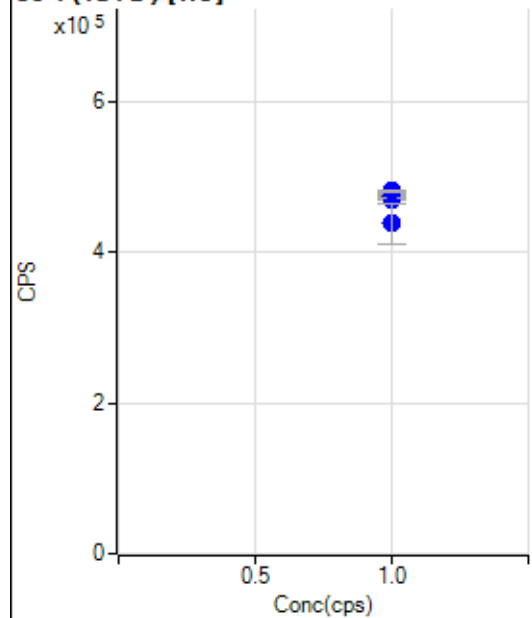
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1796997.16		A	3.4
2	☐	1.000		1837078.13		A	0.6
3	☐	1.000		1861146.41		A	0.2
4	☐	1.000		1857834.77		A	1.3
5	☐	1.000		1898893.98		A	1.7
6	☐	1.000		1884136.12		A	1.6
7	☐	1.000		1895927.26		A	3.5
8	☐	1.000		1812451.90		A	1.8

45 Sc (ISTD) [He]

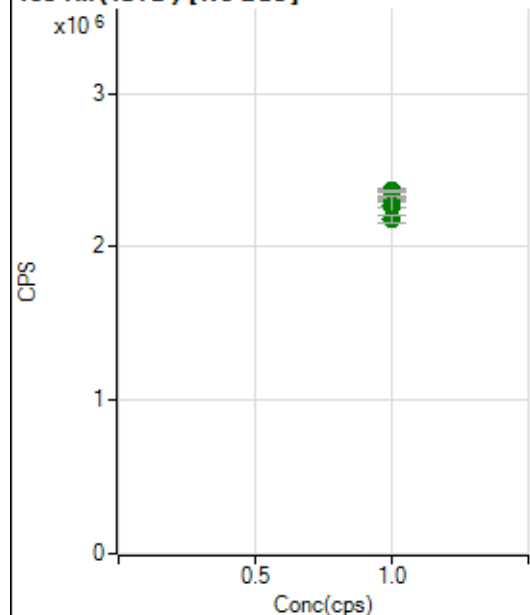
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		65762.06		P	2.8
2	☐	1.000		65333.54		P	1.4
3	☐	1.000		67592.89		P	0.9
4	☐	1.000		66189.70		P	1.1
5	☐	1.000		66354.84		P	0.7
6	☐	1.000		66525.42		P	0.4
7	☐	1.000		66414.10		P	0.7
8	☐	1.000		60594.05		P	11.8

89 Y (ISTD) [No Gas]

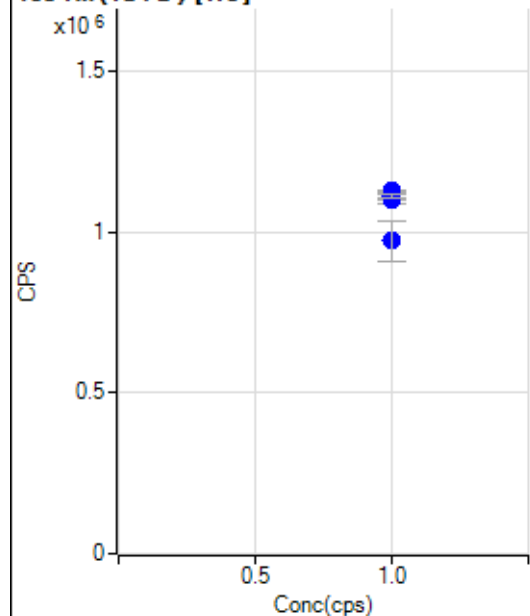
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3543076.55		A	1.0
2	☐	1.000		3599111.48		A	0.6
3	☐	1.000		3689241.09		A	0.2
4	☐	1.000		3614061.82		A	1.1
5	☐	1.000		3679520.95		A	3.1
6	☐	1.000		3703889.98		A	1.0
7	☐	1.000		3676823.62		A	3.2
8	☐	1.000		3651528.14		A	1.9

89 Y (ISTD) [He]

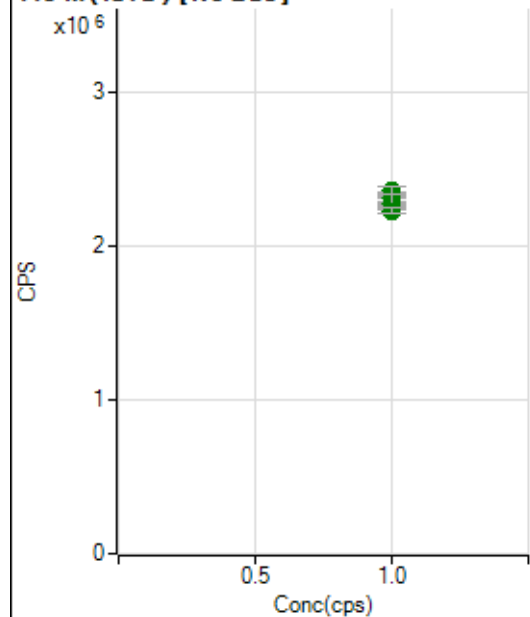
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		469515.74		P	2.4
2	☐	1.000		471334.02		P	1.0
3	☐	1.000		476983.46		P	1.1
4	☐	1.000		475192.06		P	0.9
5	☐	1.000		473218.98		P	0.8
6	☐	1.000		475243.89		P	0.7
7	☐	1.000		482094.26		P	0.6
8	☐	1.000		438511.82		P	12.1

103 Rh (ISTD) [No Gas]

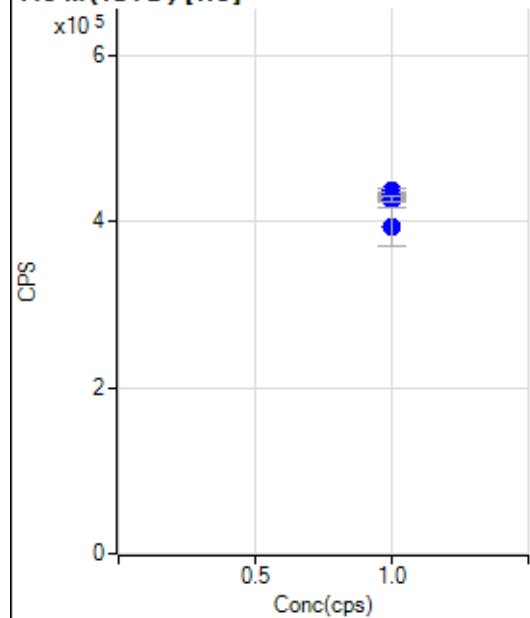
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2293816.26		A	3.1
2	☐	1.000		2333208.36		A	2.8
3	☐	1.000		2356361.56		A	2.2
4	☐	1.000		2299140.15		A	0.6
5	☐	1.000		2335402.68		A	1.4
6	☐	1.000		2364303.27		A	0.2
7	☐	1.000		2267622.21		A	5.1
8	☐	1.000		2178730.45		A	2.3

103 Rh (ISTD) [He]

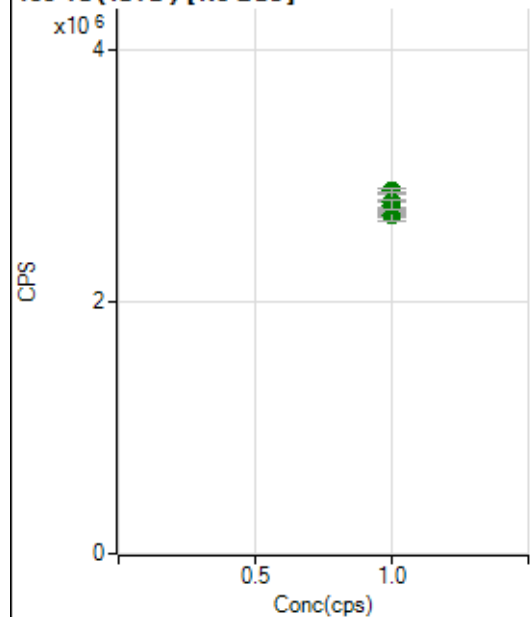
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1097305.40		P	1.6
2	☐	1.000		1122793.21		P	0.5
3	☐	1.000		1127189.79		P	0.8
4	☐	1.000		1125470.90		P	1.0
5	☐	1.000		1099630.48		P	0.6
6	☐	1.000		1118193.48		P	0.7
7	☐	1.000		1109584.67		P	1.0
8	☐	1.000		971548.73		P	12.6

115 In (ISTD) [No Gas]

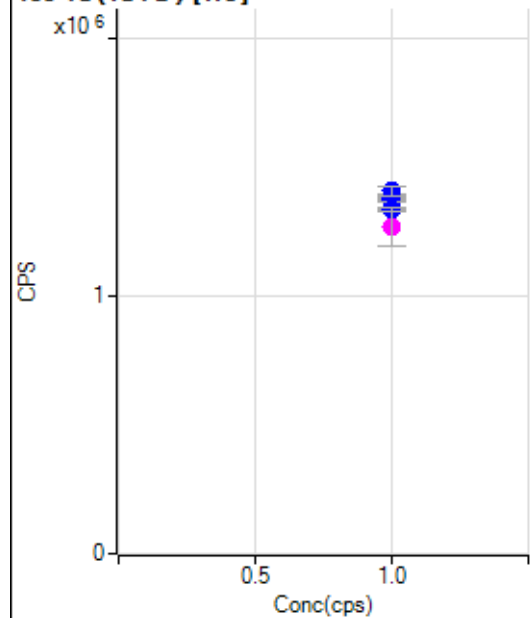
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2252467.13		A	0.9
2	☐	1.000		2292876.70		A	1.9
3	☐	1.000		2357759.48		A	3.0
4	☐	1.000		2283009.47		A	2.5
5	☐	1.000		2312121.75		A	2.8
6	☐	1.000		2334279.76		A	4.0
7	☐	1.000		2273872.48		A	5.3
8	☐	1.000		2230138.93		A	1.8

115 In (ISTD) [He]

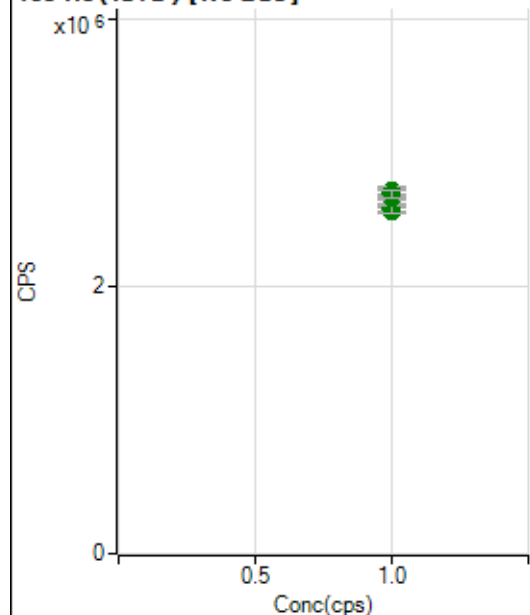
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		425307.72		P	0.8
2	☐	1.000		427318.28		P	0.8
3	☐	1.000		436537.15		P	1.4
4	☐	1.000		431659.57		P	0.9
5	☐	1.000		432871.52		P	1.2
6	☐	1.000		428612.61		P	0.1
7	☐	1.000		426796.84		P	1.5
8	☐	1.000		392985.78		P	12.0

159 Tb (ISTD) [No Gas]

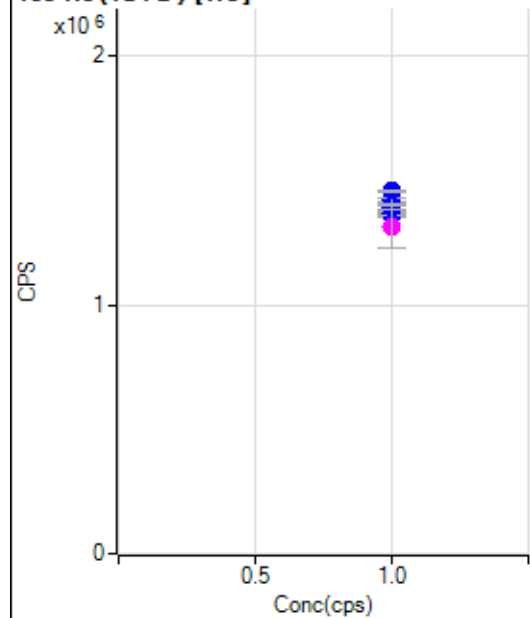
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2701266.11		A	1.7
2	☐	1.000		2686046.94		A	0.6
3	☐	1.000		2729165.97		A	1.7
4	☐	1.000		2690839.94		A	3.4
5	☐	1.000		2767751.80		A	2.1
6	☐	1.000		2883473.22		A	1.7
7	☐	1.000		2798943.47		A	5.1
8	☐	1.000		2772980.06		A	2.7

159 Tb (ISTD) [He]

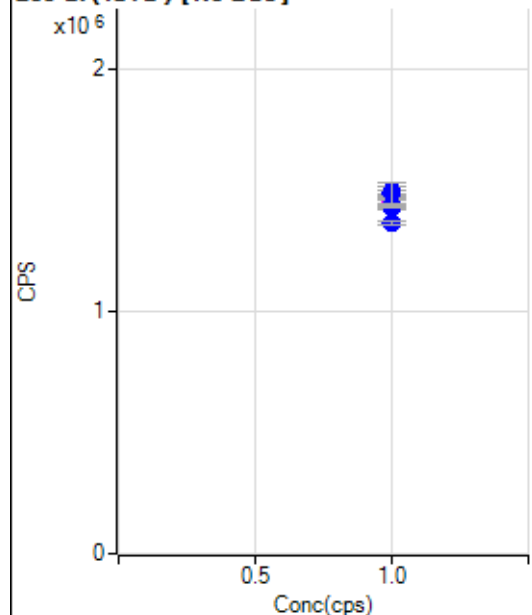
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1336392.61		P	0.5
2	☐	1.000		1332644.82		P	1.1
3	☐	1.000		1382616.96		P	1.0
4	☐	1.000		1372557.51		P	1.1
5	☐	1.000		1377497.64		P	1.6
6	☐	1.000		1393591.98		P	0.8
7	☐	1.000		1408037.98		P	2.3
8	☐	1.000		1269622.17		M	11.5

165 Ho (ISTD) [No Gas]

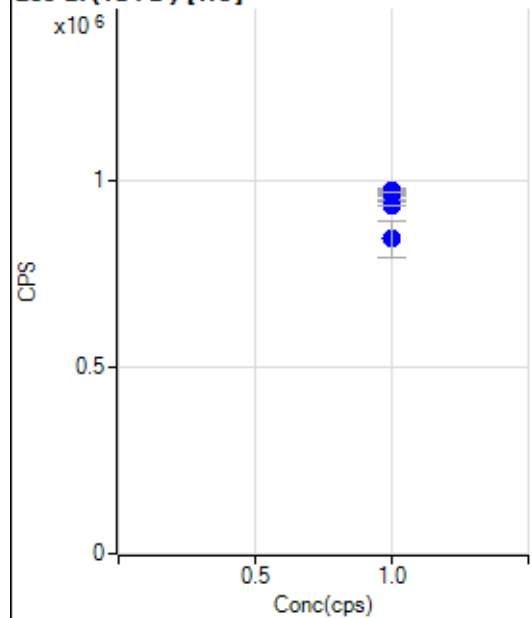
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2565803.44		A	1.6
2	☐	1.000		2590362.99		A	1.9
3	☐	1.000		2682307.94		A	0.5
4	☐	1.000		2579418.42		A	2.3
5	☐	1.000		2663351.88		A	1.5
6	☐	1.000		2716228.62		A	1.4
7	☐	1.000		2705949.63		A	3.5
8	☐	1.000		2686553.49		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1360007.17		P	1.5
2	☐	1.000		1369451.37		P	1.4
3	☐	1.000		1405889.84		P	0.9
4	☐	1.000		1401529.93		P	0.5
5	☐	1.000		1394829.44		P	1.1
6	☐	1.000		1419758.75		P	1.6
7	☐	1.000		1458195.78		P	0.7
8	☐	1.000		1310630.06		M	13.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1424396.70		P	1.2
2	☐	1.000		1450749.53		M	2.8
3	☐	1.000		1464767.31		P	0.8
4	☐	1.000		1428679.54		P	0.6
5	☐	1.000		1495976.75		P	2.0
6	☐	1.000		1479562.27		P	2.0
7	☐	1.000		1487174.23		P	6.2
8	☐	1.000		1363509.81		P	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		946239.64		P	0.7
2	☐	1.000		932511.44		P	0.3
3	☐	1.000		968632.99		P	0.5
4	☐	1.000		971966.03		P	1.5
5	☐	1.000		966932.44		P	2.0
6	☐	1.000		969655.23		P	0.6
7	☐	1.000		968638.02		P	0.2
8	☐	1.000		843766.16		P	11.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8021423 MS.b
Acq. Date-Time 2023-02-14 12:56:02
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		5450	54502.55			0.534	5.000
24		32828	328283.91			2.186	5.000
25		4566	45657.48			1.480	5.000
26		5236	52360.32			1.570	5.000
59		19230	192298.17			0.506	5.000
113		2017	20167.02			0.717	5.000
115		24539	245387.81			1.030	5.000
206		4502	45015.40			1.094	5.000
207		4090	40902.93			0.576	5.000
208		9923	99228.35			0.897	5.000
220		0	4.30			39.088	

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

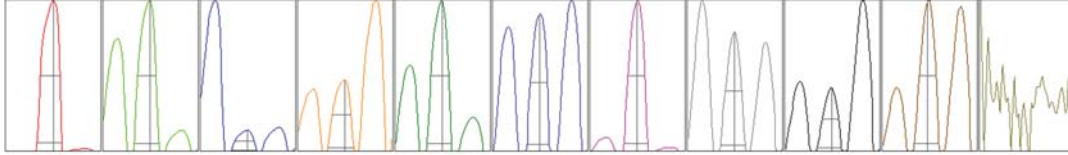
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5473	5399	5456	5460	5463
24	31952	32338	32819	33287	33745
25	4492	4494	4598	4610	4634
26	5128	5185	5297	5239	5331
59	19293	19149	19165	19370	19172
113	2037	2004	2003	2025	2016
115	24896	24205	24620	24534	24439
206	4522	4418	4496	4533	4538
207	4088	4079	4097	4125	4062
208	9993	9776	9915	9993	9939

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9344.95	9.05	8.90 - 9.10	
24	59092.69	24.00	23.90 - 24.10	
25	7952.73	25.00	24.90 - 25.10	
26	9169.67	26.00	25.90 - 26.10	
59	35926.46	59.00	58.90 - 59.10	
113	3944.92	113.00	112.90 - 113.10	
115	48547.71	115.00	114.90 - 115.10	
206	9008.89	206.00	205.90 - 206.10	
207	8182.24	207.00	206.90 - 207.10	
208	19333.37	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.781	0.900	
24	0.59	0.779	0.900	
25	0.60	0.786	0.900	
26	0.61	0.820	0.900	
59	0.56	0.776	0.900	
113	0.53	0.692	0.900	
115	0.52	0.758	0.900	
206	0.51	0.776	0.900	
207	0.51	0.770	0.900	
208	0.52	0.776	0.900	
220	0.72			

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	10.3 V	Deflect	16.0 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2312 V	Pulse HV	1704 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4644	46436.13			1.060	
89		5547	55471.67			1.225	
205		3643	36425.14			0.893	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4599	4654	4665	4591	4710
89	5655	5481	5505	5529	5565
205	3682	3621	3620	3673	3616

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	10.3 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2312 V	Pulse HV	1704 V
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