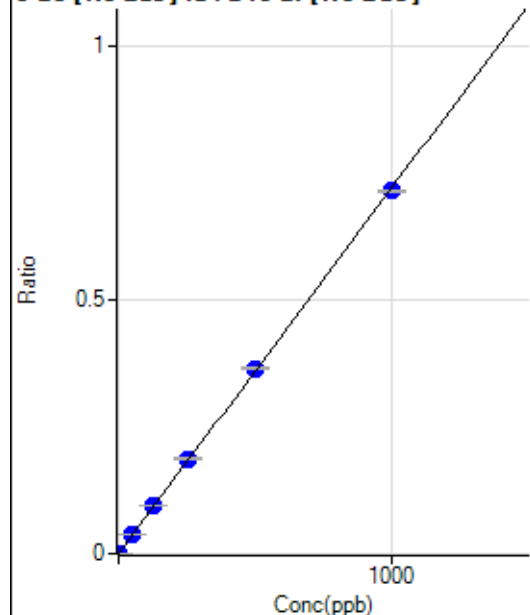


Batch Folder: D:\ICP-MS Data\P7080318-MS .bb\
Analysis File: P7080318-MS .batch.bin
DA Date-Time: 2018-08-03 16:46:12
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-08-03 12:13:04
2			
3	005CALS.d	S02	2018-08-03 12:21:25
4	006CALS.d	S03	2018-08-03 12:25:18
5	007CALS.d	S04	2018-08-03 12:29:24
6	008CALS.d	S05	2018-08-03 12:33:11
7	009CALS.d	S06	2018-08-03 12:36:57
8	010CALS.d	S07	2018-08-03 12:40:41
9	011CALS.d	S08	2018-08-03 12:44:25

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	59.26	0.0000	P	29.5
2	☐	0.100					
3	☐	1.000	1.070	2339.13	0.0008	P	1.1
4	☐	50.000	53.636	115066.09	0.0386	P	0.6
5	☐	125.000	132.037	280957.08	0.0950	P	0.5
6	☐	250.000	260.237	539537.36	0.1873	P	1.0
7	☐	500.000	507.126	1056488.89	0.3649	P	0.9
8	☐	1000.000	992.816	2015568.17	0.7143	P	0.3
9	☐			631.51	0.0003	P	23.3

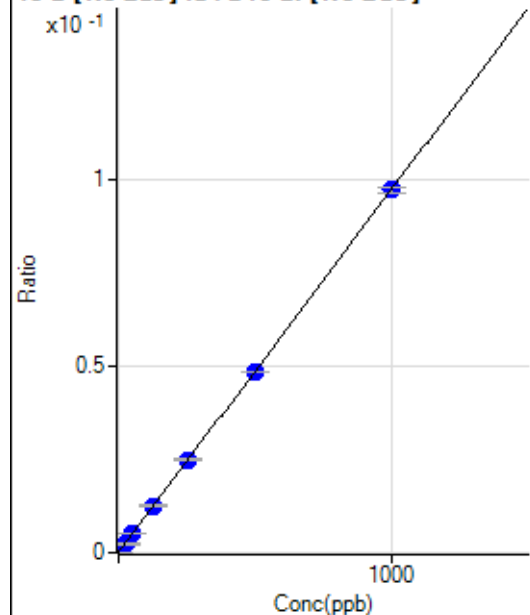
$$y = 7.1948\text{E-}004 * x + 1.9331\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.02378$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	255.57	0.0001	P	14.0
2	☐	2.500					
3	☐	25.000	23.204	6951.85	0.0023	P	1.9
4	☐	50.000	50.808	15016.36	0.0050	P	0.9
5	☐	125.000	128.544	37319.19	0.0126	P	1.2
6	☐	250.000	256.075	72203.52	0.0251	P	2.0
7	☐	500.000	498.499	141016.94	0.0487	P	0.3
8	☐	1000.000	998.793	275099.71	0.0975	P	1.8
9	☐			8580.62	0.0035	P	7.5

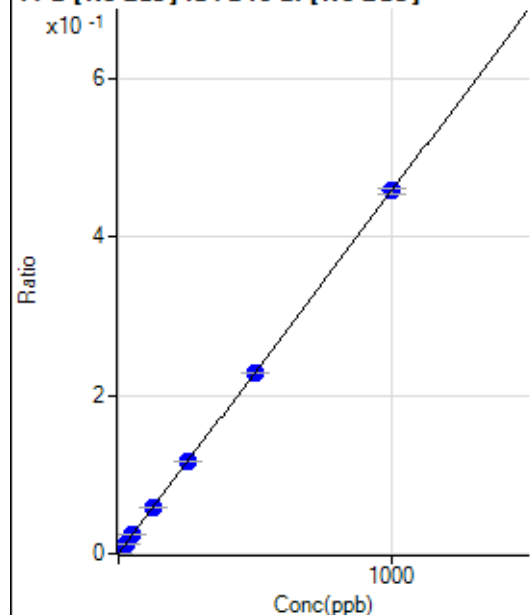
$$y = 9.7534\text{E-}005 * x + 8.3146\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.3591$$

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	975.08	0.0003	P	2.7
2	☐	2.500					
3	☐	25.000	24.072	33596.69	0.0113	P	0.9
4	☐	50.000	52.145	72106.08	0.0242	P	1.3
5	☐	125.000	127.186	173128.16	0.0586	P	2.6
6	☐	250.000	253.733	335662.90	0.1165	P	1.6
7	☐	500.000	496.921	659703.61	0.2278	P	0.5
8	☐	1000.000	1000.249	1293138.12	0.4583	P	1.6
9	☐			39154.84	0.0160	P	9.6

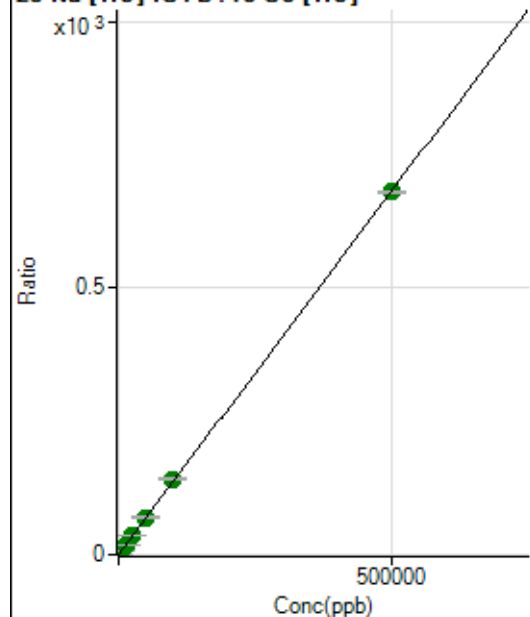
$$y = 4.5788\text{E-}004 * x + 3.1759\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.05719$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12619.69	0.0370	P	0.8
2	☐	50.000					
3	☐	500.000	494.673	245234.40	0.7113	P	0.5
4	☐	5000.000	5273.977	2412761.71	7.2259	A	0.3
5	☐	12500.000	13044.096	5643399.22	17.8172	A	0.6
6	☐	25000.000	26286.864	11019722.30	35.8683	A	0.6
7	☐	50000.000	51485.430	21688279.65	70.2162	A	0.8
8	☐	100000.00	103502.48	43371424.24	141.1201	A	2.1
9	☐	500000.00	499070.28	194255258.5	680.3143	A	0.4

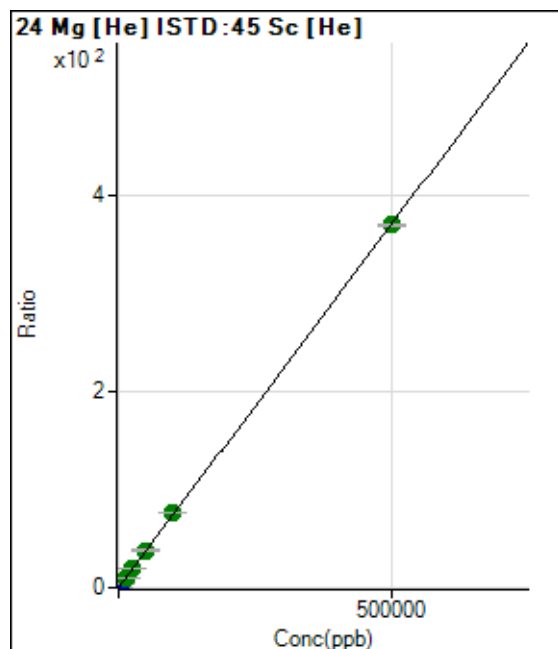
$$y = 0.0014 * x + 0.0370$$

$$R = 1.0000$$

$$DL = 0.6529$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	136.12	0.0004	P	17.9
2	☐	50.000					
3	☐	500.000	485.671	124001.56	0.3596	P	1.1
4	☐	5000.000	5286.703	1305878.18	3.9109	P	0.3
5	☐	12500.000	13129.835	3076322.25	9.7124	A	0.6
6	☐	25000.000	26331.257	5984096.27	19.4774	A	0.1
7	☐	50000.000	51577.008	11784357.55	38.1516	A	0.4
8	☐	100000.00	103203.59	23461916.15	76.3394	A	2.1
9	☐	500000.00	499116.42	105418872.5	369.1934	A	0.3

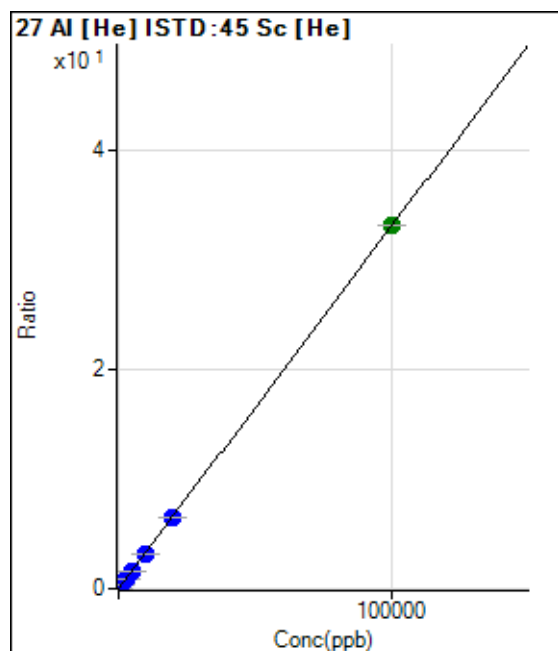
$$y = 7.3969\text{E-}004 * x + 3.9896\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2893$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.11	0.0001	P	13.1
2	☐	2.000					
3	☐	20.000	19.360	2241.93	0.0065	P	4.4
4	☐	1000.000	1021.523	112725.30	0.3376	P	0.7
5	☐	2500.000	2497.404	261376.31	0.8252	P	0.3
6	☐	5000.000	4989.920	506537.28	1.6487	P	0.7
7	☐	10000.000	9775.246	997600.42	3.2297	P	0.5
8	☐	20000.000	19628.345	1993114.13	6.4850	P	1.9
9	☐	100000.00	100097.16	9443046.91	33.0705	A	0.1

$$y = 3.3038\text{E-}004 * x + 1.0579\text{E-}004$$

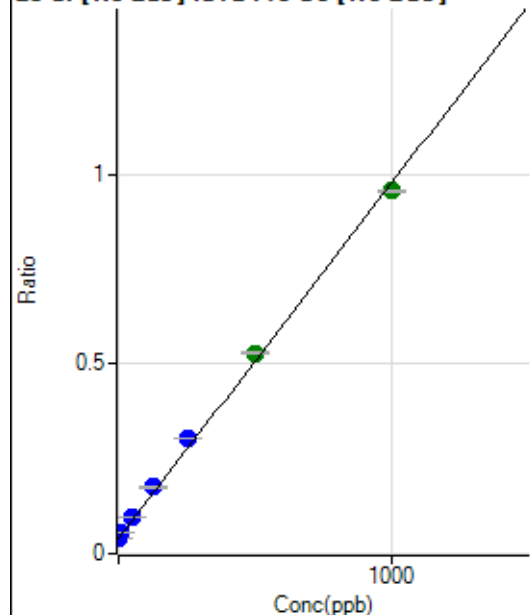
$$R = 1.0000$$

$$DL = 0.1263$$

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	288826.74	0.0400	P	1.4
2	☐	1.000					
3	☐	10.000	16.261	387067.82	0.0553	P	0.5
4	☐	50.000	59.102	662943.97	0.0954	P	0.9
5	☐	125.000	144.271	1179922.43	0.1752	P	0.5
6	☐	250.000	281.954	1976797.11	0.3043	P	1.3
7	☐	500.000	521.650	3427555.46	0.5289	A	0.6
8	☐	1000.000	978.260	6238202.83	0.9569	A	0.5
9	☐			390405.99	0.0673	P	1.0

$$y = 9.3725\text{E-}004 * x + 0.0400$$

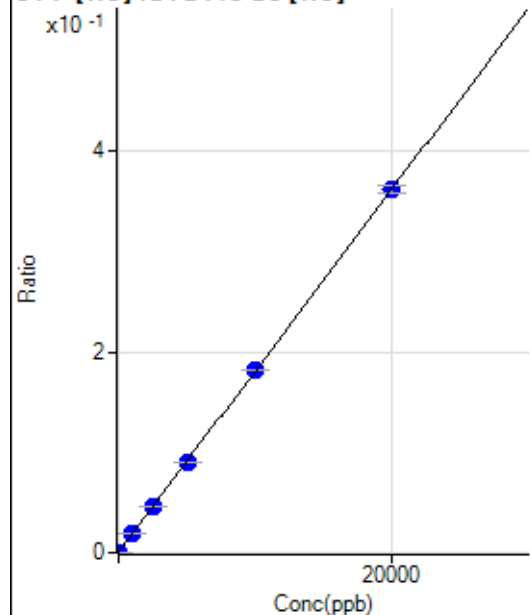
$$R = 0.9991$$

$$DL = 1.796$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-3.893	147.23	0.0004	P	14.3
2	☐	0.000					
3	☐	0.000	3.893	197.24	0.0006	P	13.6
4	☐	1000.000	1048.129	6490.60	0.0194	P	5.1
5	☐	2500.000	2496.163	14440.81	0.0456	P	2.2
6	☐	5000.000	4976.351	27771.04	0.0904	P	0.2
7	☐	10000.000	10021.519	56070.40	0.1815	P	0.2
8	☐	20000.000	19993.226	111147.86	0.3616	P	2.0
9	☐			211.12	0.0007	P	17.0

$$y = 1.8063\text{E-}005 * x + 5.0176\text{E-}004$$

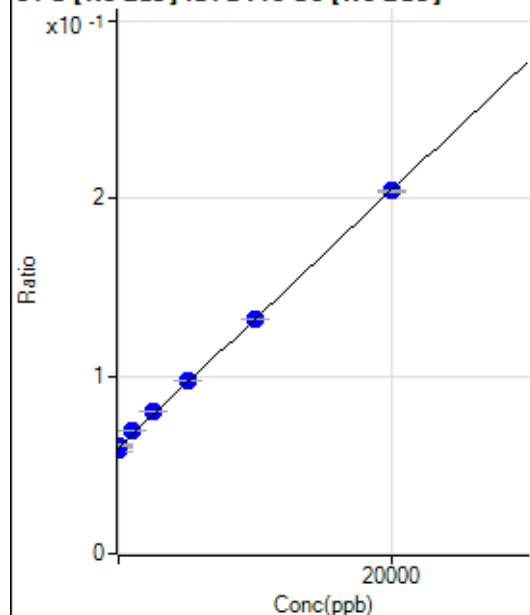
$$R = 1.0000$$

$$DL = 11.6$$

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	-171.151	422913.89	0.0586	P	2.6
2	☐	0.000					
3	☐	0.000	171.151	427995.40	0.0611	P	0.5
4	☐	1000.000	1297.895	481368.79	0.0693	P	1.0
5	☐	2500.000	2827.501	541225.14	0.0804	P	0.6
6	☐	5000.000	5151.174	631782.82	0.0972	P	0.5
7	☐	10000.000	9976.627	857099.11	0.1323	P	0.4
8	☐	20000.000	19918.061	1332564.07	0.2044	P	0.3
9	☐			322694.34	0.0556	P	1.2

$$y = 7.2569\text{E-}006 * x + 0.0599$$

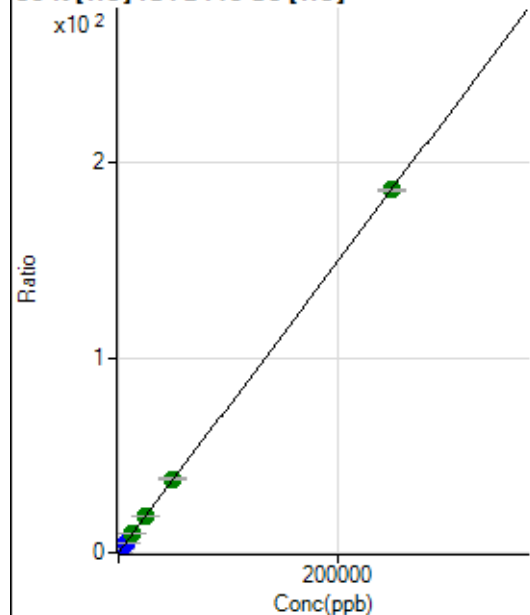
$$R = 0.9997$$

$$DL = 383.1$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32002.16	0.0938	P	1.4
2	☐	50.000					
3	☐	500.000	486.727	157159.48	0.4558	P	1.0
4	☐	2500.000	2592.007	675091.03	2.0218	P	0.3
5	☐	6250.000	6318.764	1518411.58	4.7939	P	0.3
6	☐	12500.000	12622.092	2913334.11	9.4825	A	0.3
7	☐	25000.000	24986.621	5769845.36	18.6797	A	0.4
8	☐	50000.000	50427.480	11556926.73	37.6035	A	2.1
9	☐	250000.00	249907.12	53105843.54	185.9834	A	0.2

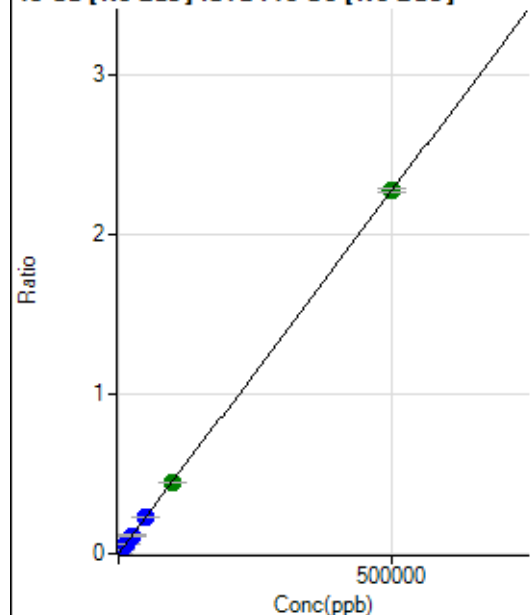
$$y = 7.4383\text{E-}004 * x + 0.0938$$

$$R = 1.0000$$

$$DL = 5.225$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	191.68	0.0000	P	26.2
2	☐	50.000					
3	☐	500.000	483.072	15567.06	0.0022	P	2.5
4	☐	5000.000	5046.641	159577.21	0.0230	P	1.0
5	☐	12500.000	12609.289	386117.68	0.0573	P	0.3
6	☐	25000.000	25112.165	741780.81	0.1142	P	1.4
7	☐	50000.000	50022.505	1473695.31	0.2274	P	0.5
8	☐	100000.00	99185.070	2939465.80	0.4509	A	0.4
9	☐	500000.00	500151.94	13186328.25	2.2736	A	1.0

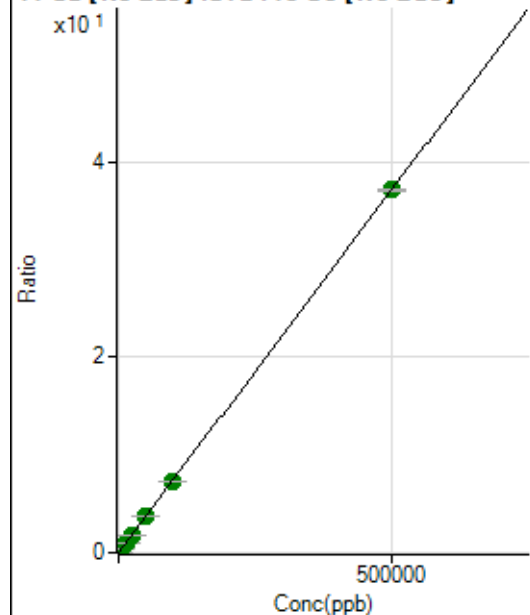
$$y = 4.5458\text{E-}006 * x + 2.6660\text{E-}005$$

$$R = 1.0000$$

$$DL = 4.601$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5476.26	0.0008	P	1.9
2	☐	50.000					
3	☐	500.000	470.417	249747.89	0.0357	P	0.1
4	☐	5000.000	4995.166	2580013.45	0.3713	A	0.2
5	☐	12500.000	12429.468	6213644.80	0.9228	A	0.6
6	☐	25000.000	24930.772	12020383.60	1.8502	A	0.9
7	☐	50000.000	49562.668	23831492.38	3.6775	A	0.3
8	☐	100000.00	98887.478	47828585.10	7.3367	A	0.3
9	☐	500000.00	500271.54	215253271.4	37.1132	A	0.5

$$y = 7.4185\text{E-}005 * x + 7.5896\text{E-}004$$

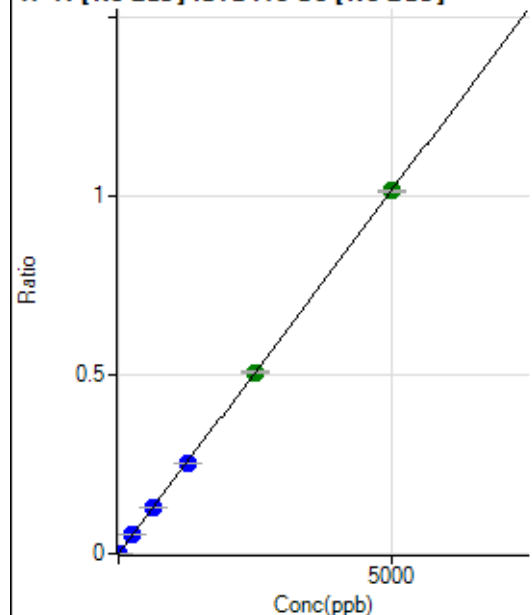
$$R = 1.0000$$

$$DL = 0.57$$

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	83.34	0.0000	P	60.3
2	☐	0.500					
3	☐	5.000	4.934	7082.55	0.0010	P	3.2
4	☐	250.000	255.928	360400.39	0.0519	P	0.5
5	☐	625.000	633.687	864646.81	0.1284	P	0.6
6	☐	1250.000	1249.670	1645185.75	0.2532	P	0.8
7	☐	2500.000	2500.515	3283412.16	0.5067	A	0.6
8	☐	5000.000	4998.443	6602894.85	1.0128	A	0.2
9	☐			3661.71	0.0006	P	5.7

$$y = 2.0263\text{E-}004 * x + 1.1447\text{E-}005$$

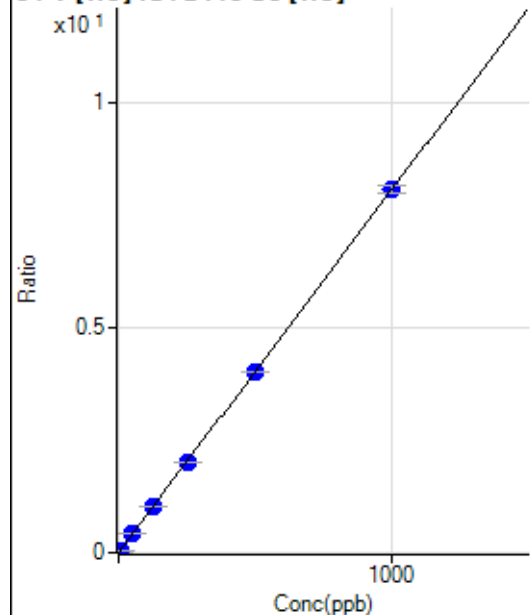
$$R = 1.0000$$

$$DL = 0.1022$$

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	6.66	0.0000	P	86.4
2	☐	0.500					
3	☐	5.000	4.819	13372.95	0.0388	P	0.6
4	☐	50.000	50.817	136498.58	0.4088	P	0.6
5	☐	125.000	125.344	319357.77	1.0083	P	0.3
6	☐	250.000	251.415	621329.62	2.0224	P	0.3
7	☐	500.000	498.266	1237986.94	4.0080	P	0.6
8	☐	1000.000	1000.430	2473151.78	8.0473	P	2.3
9	☐			1075.61	0.0038	P	3.7

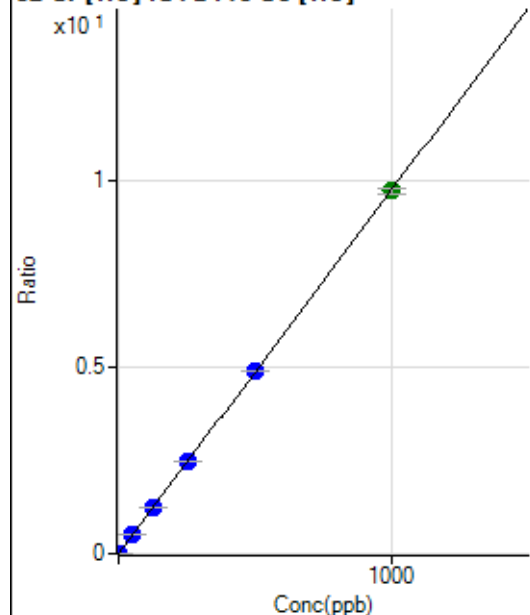
$$y = 0.0080 * x + 1.9498\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.006284$$

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	531.13	0.0016	P	1.4
2	☐	0.200					
3	☐	2.000	2.063	7455.32	0.0216	P	1.9
4	☐	50.000	51.655	168308.84	0.5041	P	0.3
5	☐	125.000	126.317	389697.36	1.2304	P	0.8
6	☐	250.000	255.810	765023.19	2.4901	P	0.5
7	☐	500.000	500.772	1505198.68	4.8730	P	0.3
8	☐	1000.000	997.914	2984053.70	9.7092	A	1.9
9	☐			107303.36	0.3758	P	0.5

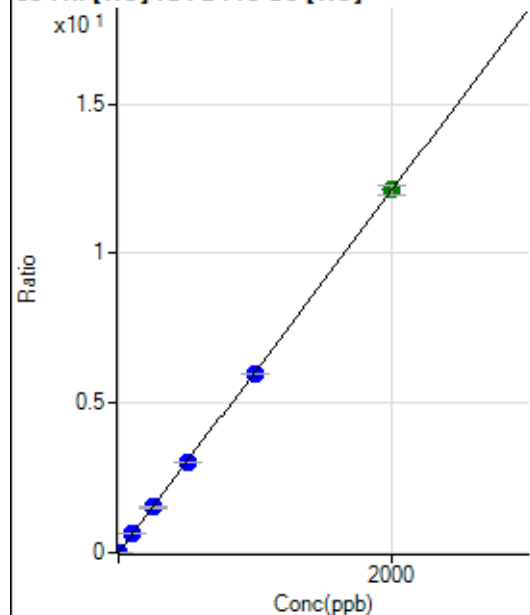
$$y = 0.0097 * x + 0.0016$$

$$R = 1.0000$$

$$DL = 0.00694$$

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	113.33	0.0003	P	36.0
2	☐	0.100					
3	☐	1.000	0.991	2182.42	0.0063	P	6.0
4	☐	100.000	101.289	204743.67	0.6132	P	0.8
5	☐	250.000	249.771	478750.87	1.5115	P	0.6
6	☐	500.000	501.816	932884.99	3.0365	P	0.5
7	☐	1000.000	990.930	1851991.76	5.9957	P	0.3
8	☐	2000.000	2004.045	3726451.68	12.1254	A	2.3
9	☐			17370.45	0.0608	P	2.1

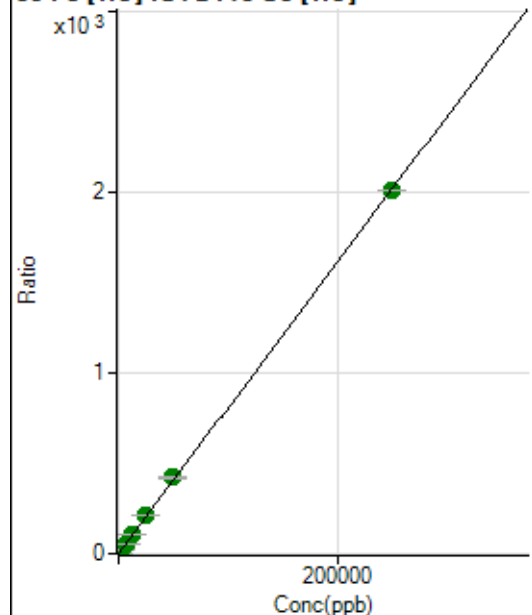
$$y = 0.0061 * x + 3.3199E-004$$

$$R = 1.0000$$

$$DL = 0.05923$$

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	5241.83	0.0154	P	0.7
2	☐	5.000					
3	☐	50.000	51.459	148284.15	0.4301	P	0.3
4	☐	2500.000	2644.605	7121789.11	21.3284	A	0.3
5	☐	6250.000	6565.397	16763942.16	52.9264	A	0.5
6	☐	12500.000	13250.971	32813874.11	106.8060	A	0.4
7	☐	25000.000	26153.088	65108157.93	210.7852	A	0.3
8	☐	50000.000	52600.229	130284155.6	423.9249	A	2.3
9	☐	250000.00	249317.76	573734109.1	2,009.287	A	0.0

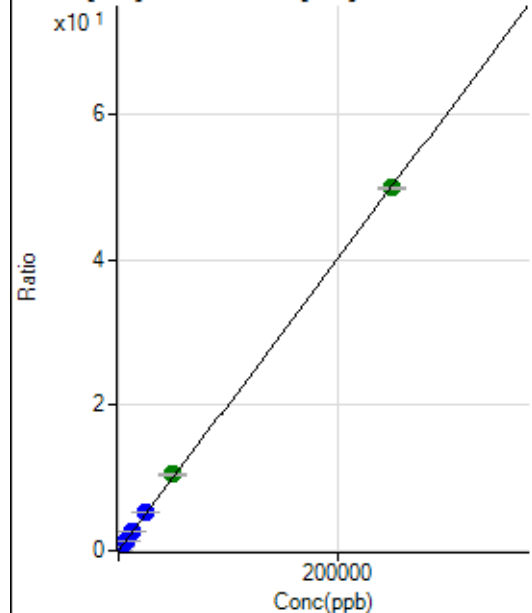
$$y = 0.0081 * x + 0.0154$$

$$R = 0.9999$$

$$DL = 0.03771$$

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	227.79	0.0007	P	22.4
2	☐	5.000					
3	☐	50.000	54.301	3974.71	0.0115	P	3.6
4	☐	2500.000	2633.837	176117.95	0.5274	P	0.3
5	☐	6250.000	6600.796	418362.80	1.3208	P	0.4
6	☐	12500.000	13261.255	815056.46	2.6529	P	0.5
7	☐	25000.000	25925.754	1601833.44	5.1859	P	0.5
8	☐	50000.000	52351.140	3218167.81	10.4710	A	2.0
9	☐	250000.00	249389.02	14242135.16	49.8788	A	0.6

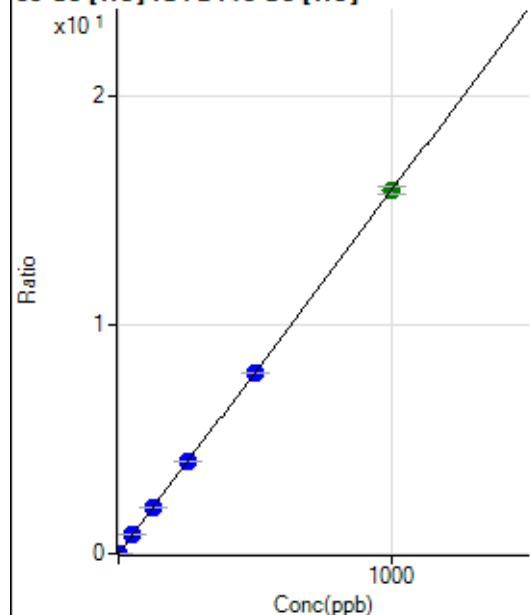
$$y = 2.0000E-004 * x + 6.6750E-004$$

$$R = 1.0000$$

$$DL = 2.238$$

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	68.89	0.0002	P	22.2
2	☐	0.100					
3	☐	1.000	1.001	5544.46	0.0161	P	2.6
4	☐	50.000	51.801	274491.17	0.8221	P	0.3
5	☐	125.000	127.900	642794.99	2.0294	P	0.4
6	☐	250.000	255.324	1244595.48	4.0511	P	0.8
7	☐	500.000	497.849	2439814.84	7.8989	P	0.8
8	☐	1000.000	999.292	4872683.23	15.8546	A	2.1
9	☐			53443.69	0.1872	P	0.7

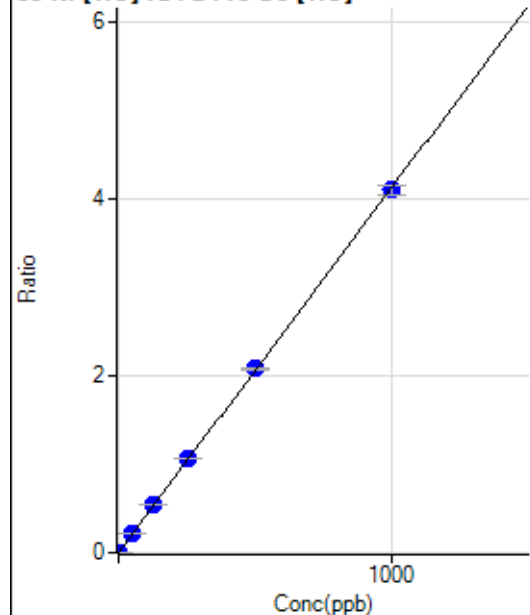
$$y = 0.0159 * x + 2.0181E-004$$

$$R = 1.0000$$

$$DL = 0.008455$$

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	73.33	0.0002	P	16.5
2	☐	0.100					
3	☐	1.000	1.046	1560.11	0.0045	P	4.5
4	☐	50.000	52.939	72908.96	0.2184	P	0.5
5	☐	125.000	130.533	170433.99	0.5381	P	0.6
6	☐	250.000	259.365	328409.41	1.0690	P	0.7
7	☐	500.000	504.128	641706.73	2.0775	P	1.2
8	☐	1000.000	994.756	1259773.27	4.0992	P	2.4
9	☐			36658.16	0.1284	P	0.7

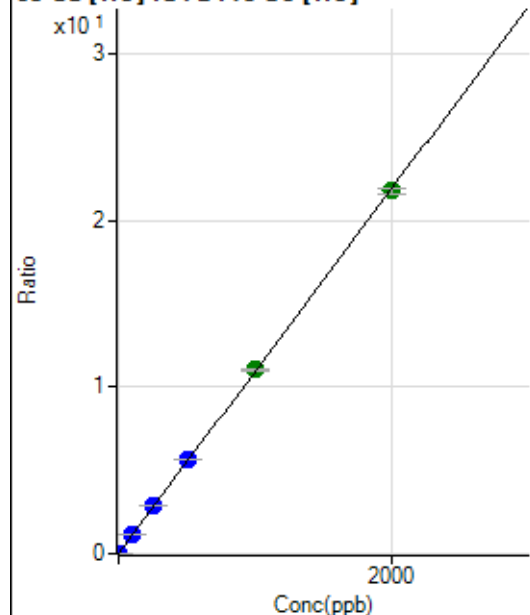
$$y = 0.0041 * x + 2.1491E-004$$

$$R = 0.9999$$

$$DL = 0.02579$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3037.03	0.0089	P	3.5
2	☐	0.200					
3	☐	2.000	2.052	10801.90	0.0313	P	1.3
4	☐	100.000	106.243	390787.71	1.1704	P	0.7
5	☐	250.000	260.190	903754.99	2.8533	P	0.2
6	☐	500.000	517.119	1739557.09	5.6621	P	0.4
7	☐	1000.000	1009.960	3413068.59	11.0498	A	0.7
8	☐	2000.000	1989.154	6686179.76	21.7545	A	1.8
9	☐			16521.73	0.0579	P	1.3

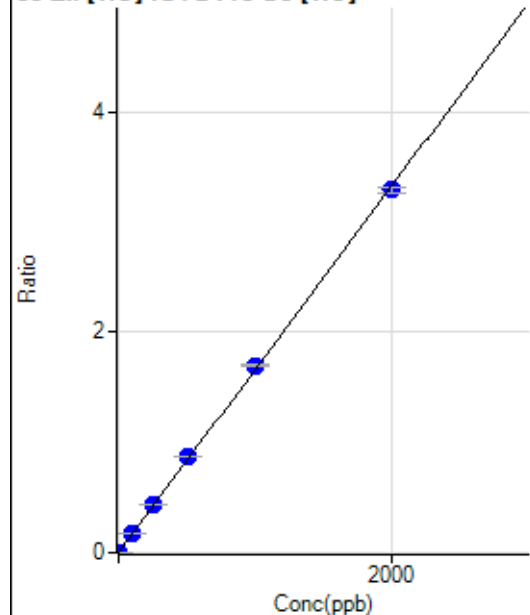
$$y = 0.0109 * x + 0.0089$$

$$R = 0.9999$$

$$DL = 0.08427$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	641.14	0.0019	P	8.4
2	☐	0.200					
3	☐	2.000	1.725	1635.67	0.0047	P	2.0
4	☐	100.000	105.753	59304.27	0.1776	P	1.0
5	☐	250.000	261.793	138383.48	0.4369	P	0.8
6	☐	500.000	525.921	269069.49	0.8758	P	0.4
7	☐	1000.000	1022.517	525393.82	1.7010	P	0.9
8	☐	2000.000	1980.500	1012030.25	3.2928	P	1.9
9	☐			7019.56	0.0246	P	1.3

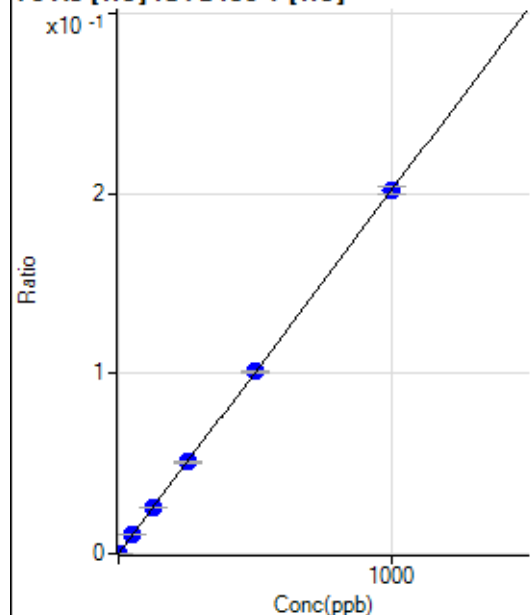
$$y = 0.0017 * x + 0.0019$$

$$R = 0.9998$$

$$DL = 0.2844$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.75	0.0000	P	51.7
2	☐	0.100					
3	☐	1.000	0.991	392.60	0.0002	P	10.5
4	☐	50.000	51.737	19110.16	0.0105	P	0.8
5	☐	125.000	126.444	44558.82	0.0255	P	0.4
6	☐	250.000	251.742	87007.44	0.0508	P	0.3
7	☐	500.000	500.900	173483.37	0.1011	P	0.7
8	☐	1000.000	998.847	344866.72	0.2016	P	2.0
9	☐			533.96	0.0003	P	4.8

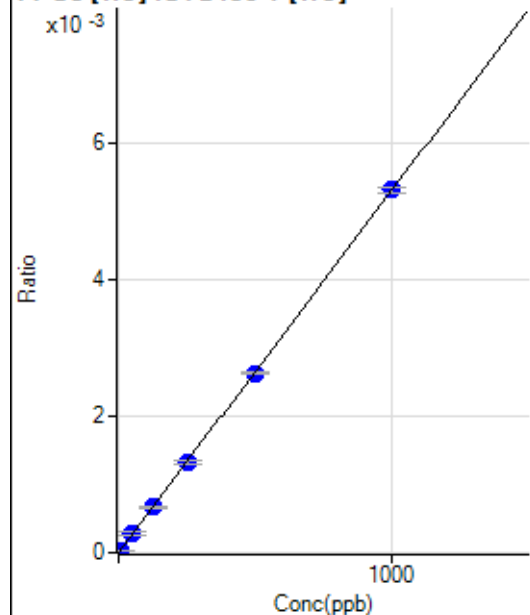
$$y = 2.0179\text{E-}004 * x + 1.0726\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.08237$$

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	☐	0.500					
3	☐	5.000	5.971	58.89	0.0000	P	22.9
4	☐	50.000	52.567	508.91	0.0003	P	16.1
5	☐	125.000	125.159	1156.73	0.0007	P	3.0
6	☐	250.000	250.040	2266.88	0.0013	P	6.1
7	☐	500.000	495.061	4498.54	0.0026	P	1.0
8	☐	1000.000	1002.306	9080.76	0.0053	P	1.3
9	☐			4.44	0.0000	P	114.7

$$y = 5.2945\text{E-}006 * x + 0.0000\text{E+}000$$

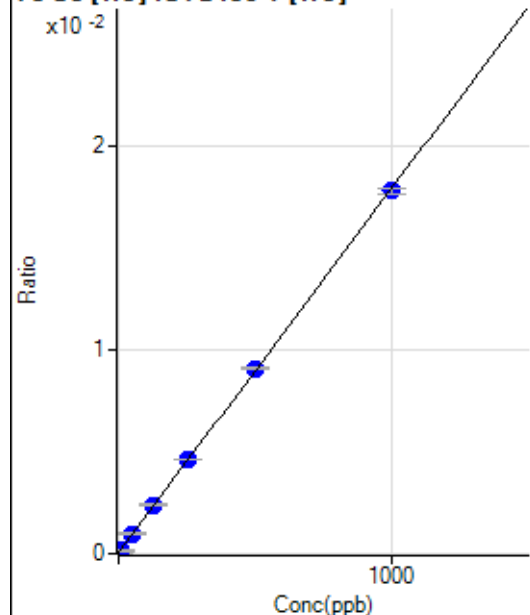
$$R = 1.0000$$

$$DL = 0$$

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	81.48	0.0000	P	17.3
2	☐	0.500					
3	☐	5.000	5.705	272.23	0.0001	P	9.0
4	☐	50.000	52.856	1806.92	0.0010	P	3.9
5	☐	125.000	131.548	4177.80	0.0024	P	1.7
6	☐	250.000	257.282	7942.98	0.0046	P	0.2
7	☐	500.000	506.786	15606.00	0.0091	P	1.5
8	☐	1000.000	993.822	30440.62	0.0178	P	1.5
9	☐			85.80	0.0001	P	10.6

$$y = 1.7856E-005 * x + 4.4253E-005$$

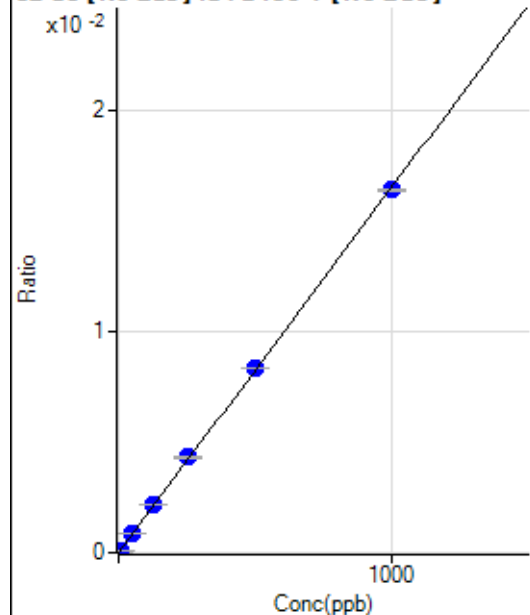
$$R = 0.9999$$

$$DL = 1.284$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-4.12	0.0000	P	-1980.
2	☐	0.500					
3	☐	5.000	5.194	989.98	0.0001	P	1.1
4	☐	50.000	52.692	9962.03	0.0009	P	2.1
5	☐	125.000	131.711	24411.86	0.0022	P	1.2
6	☐	250.000	261.175	46711.03	0.0043	P	0.9
7	☐	500.000	505.211	91296.59	0.0083	P	0.6
8	☐	1000.000	993.626	180951.50	0.0164	P	0.7
9	☐			233.96	0.0000	P	17.9

$$y = 1.6512E-005 * x - 2.7484E-007$$

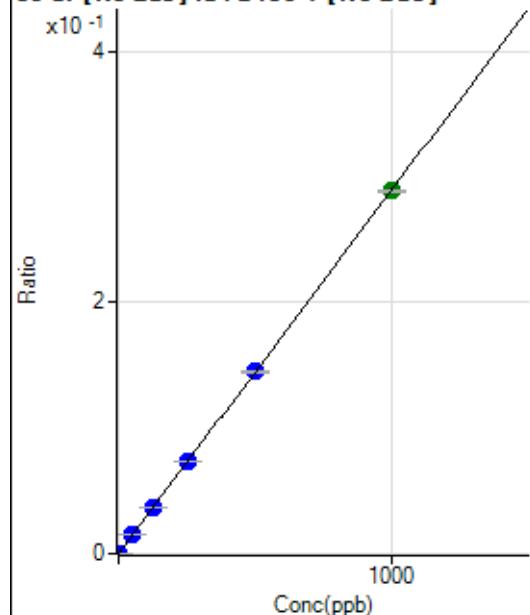
$$R = 0.9999$$

$$DL = 0.9887$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	697.27	0.0001	P	20.1
2	☐	0.100					
3	☐	1.000	0.992	3995.16	0.0003	P	2.0
4	☐	50.000	51.600	171744.70	0.0150	P	1.0
5	☐	125.000	126.872	412896.28	0.0368	P	0.3
6	☐	250.000	254.571	798825.89	0.0737	P	0.7
7	☐	500.000	500.344	1585676.89	0.1449	P	0.8
8	☐	1000.000	998.371	3187993.17	0.2890	A	0.2
9	☐			14905.55	0.0015	P	2.5

$$y = 2.8945\text{E-}004 * x + 5.7935\text{E-}005$$

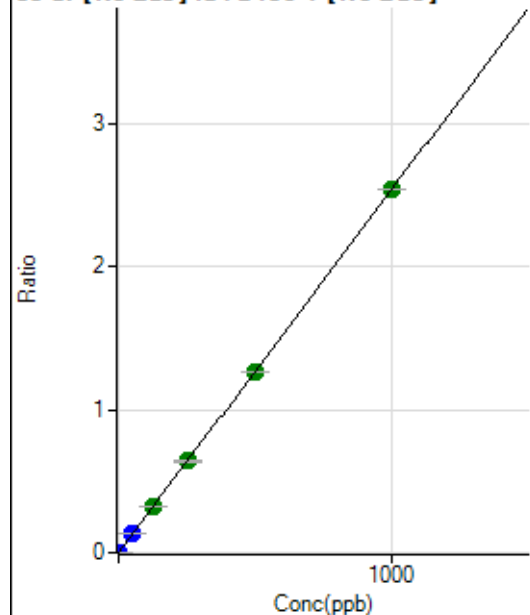
$$R = 1.0000$$

$$DL = 0.1204$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	136.12	0.0000	P	36.9
2	☐	0.100					
3	☐	1.000	0.992	29233.36	0.0025	P	1.2
4	☐	50.000	50.871	1476232.73	0.1289	P	0.2
5	☐	125.000	125.653	3573289.62	0.3183	A	0.4
6	☐	250.000	251.893	6912301.98	0.6381	A	0.6
7	☐	500.000	499.114	13838061.25	1.2644	A	0.1
8	☐	1000.000	999.845	27936023.19	2.5328	A	0.2
9	☐			126174.89	0.0130	P	0.7

$$y = 0.0025 * x + 1.1341\text{E-}005$$

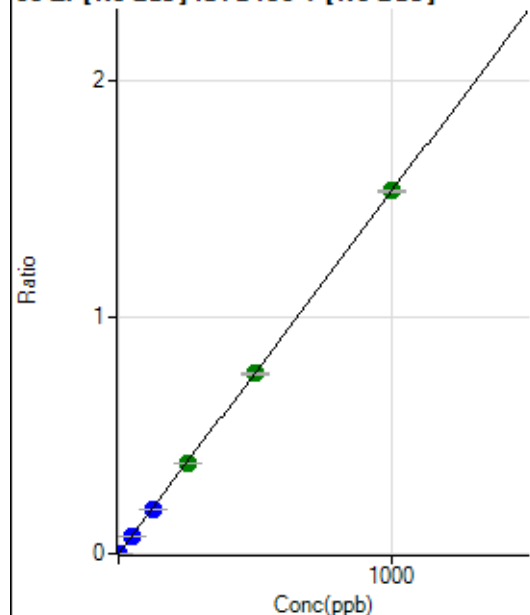
$$R = 1.0000$$

$$DL = 0.004959$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	930.62	0.0001	P	7.9
2	☐	0.100					
3	☐	1.000	0.990	18454.14	0.0016	P	1.8
4	☐	50.000	50.154	880609.46	0.0769	P	0.4
5	☐	125.000	124.254	2136786.00	0.1903	P	0.4
6	☐	250.000	250.806	4161243.84	0.3841	A	0.1
7	☐	500.000	496.813	8327270.41	0.7609	A	0.2
8	☐	1000.000	1001.478	16915490.83	1.5337	A	0.4
9	☐			5267.86	0.0005	P	6.1

$$y = 0.0015 * x + 7.7386E-005$$

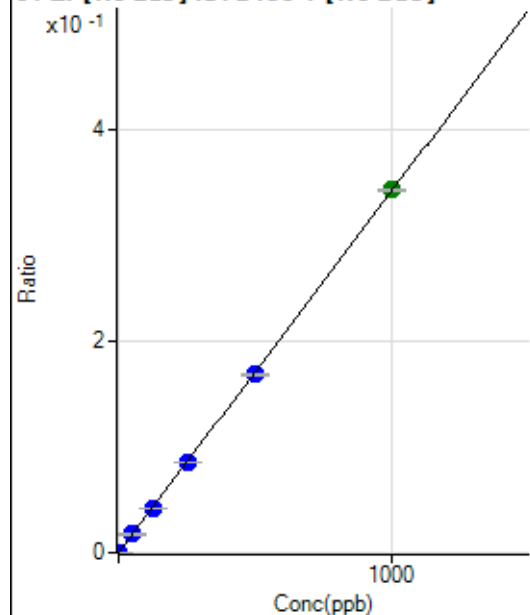
$$R = 1.0000$$

$$DL = 0.01196$$

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	216.68	0.0000	P	25.2
2	☐	0.100					
3	☐	1.000	0.976	4070.20	0.0004	P	5.4
4	☐	50.000	50.629	198433.25	0.0173	P	1.0
5	☐	125.000	124.715	478752.50	0.0426	P	0.3
6	☐	250.000	250.456	927566.83	0.0856	P	0.8
7	☐	500.000	492.405	1842335.24	0.1683	P	0.4
8	☐	1000.000	1003.688	3784212.24	0.3431	A	0.5
9	☐			1202.88	0.0001	P	12.0

$$y = 3.4182E-004 * x + 1.7953E-005$$

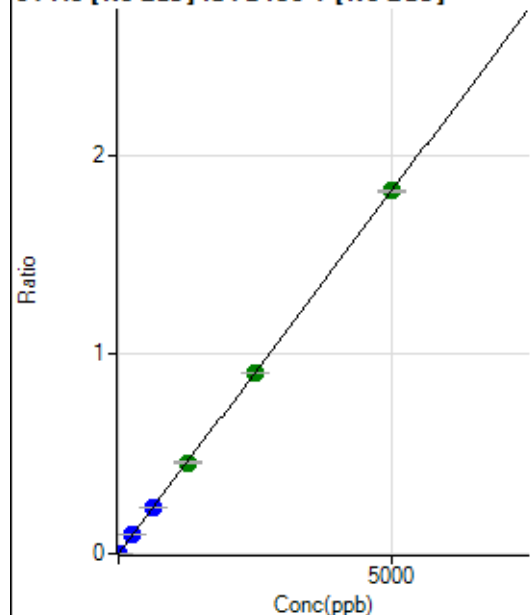
$$R = 1.0000$$

$$DL = 0.03978$$

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	350.02	0.0000	P	24.1
2	☐	0.500					
3	☐	5.000	4.988	21375.07	0.0018	P	0.9
4	☐	250.000	253.478	1057819.54	0.0923	P	0.1
5	☐	625.000	625.823	2559065.49	0.2280	P	0.3
6	☐	1250.000	1257.363	4960995.94	0.4580	A	1.1
7	☐	2500.000	2493.698	9940711.25	0.9083	A	0.6
8	☐	5000.000	5001.034	20090009.30	1.8215	A	0.4
9	☐			24285.40	0.0025	P	3.1

$$y = 3.6421\text{E-}004 * x + 2.9024\text{E-}005$$

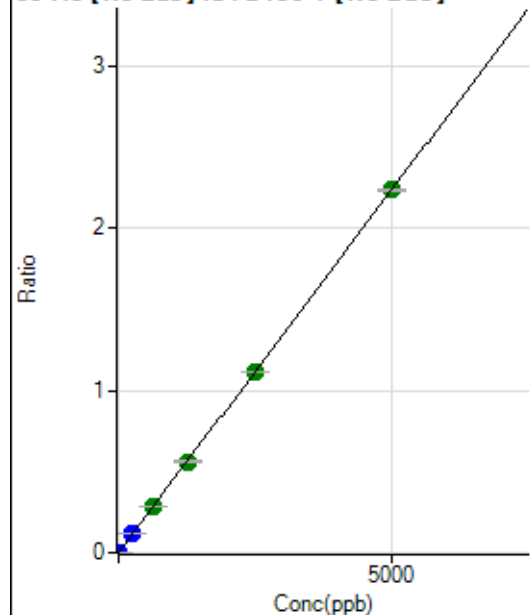
$$R = 1.0000$$

$$DL = 0.05754$$

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	47.22	0.0000	P	38.0
2	☐	0.500					
3	☐	5.000	4.952	25682.40	0.0022	P	1.8
4	☐	250.000	253.744	1299425.16	0.1134	P	0.4
5	☐	625.000	624.221	3132786.55	0.2791	A	0.3
6	☐	1250.000	1257.379	6089235.12	0.5621	A	0.8
7	☐	2500.000	2490.622	12186504.27	1.1135	A	0.5
8	☐	5000.000	5002.754	24668108.36	2.2365	A	0.3
9	☐			38912.34	0.0040	P	3.3

$$y = 4.4706\text{E-}004 * x + 3.9373\text{E-}006$$

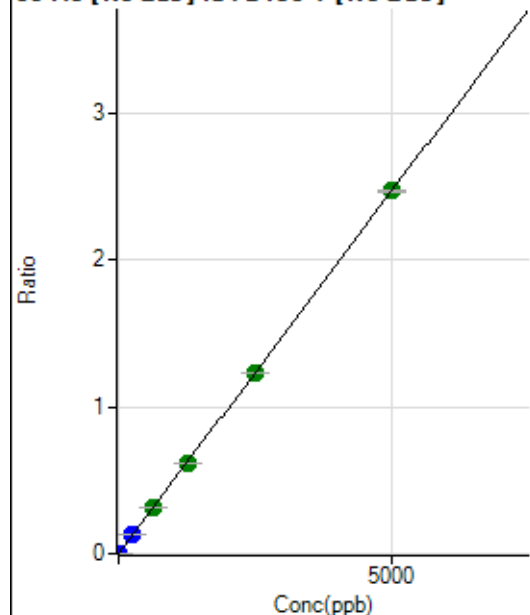
$$R = 1.0000$$

$$DL = 0.01004$$

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	130.56	0.0000	P	45.1
2	☐	0.500					
3	☐	5.000	4.846	27844.80	0.0024	P	0.7
4	☐	250.000	252.635	1429428.10	0.1248	P	0.2
5	☐	625.000	626.592	3474307.67	0.3095	A	0.2
6	☐	1250.000	1250.709	6691868.03	0.6178	A	0.6
7	☐	2500.000	2487.943	13449338.67	1.2288	A	0.6
8	☐	5000.000	5005.520	27268605.47	2.4723	A	0.2
9	☐			51543.85	0.0053	P	1.9

$$y = 4.9392E-004 * x + 1.0790E-005$$

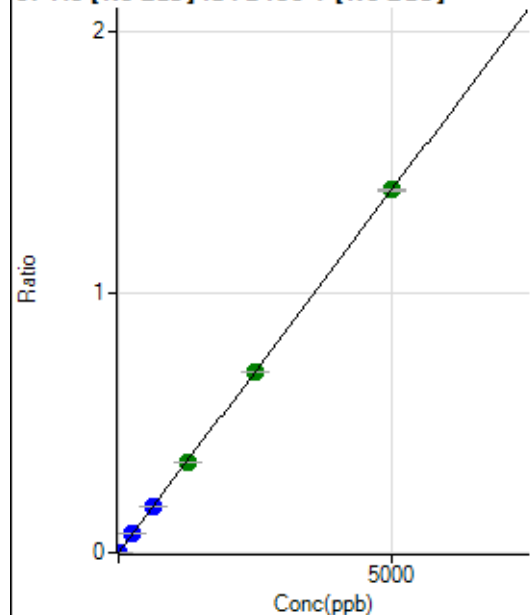
$$R = 1.0000$$

$$DL = 0.02953$$

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	36.11	0.0000	P	56.3
2	☐	0.500					
3	☐	5.000	4.812	15542.47	0.0013	P	1.4
4	☐	250.000	254.104	810065.42	0.0707	P	0.5
5	☐	625.000	627.808	1961421.88	0.1747	P	0.1
6	☐	1250.000	1252.368	3775549.35	0.3485	A	0.8
7	☐	2500.000	2489.013	7581352.78	0.6927	A	0.7
8	☐	5000.000	5004.346	15360988.89	1.3927	A	0.7
9	☐			24502.34	0.0025	P	1.1

$$y = 2.7830E-004 * x + 2.9809E-006$$

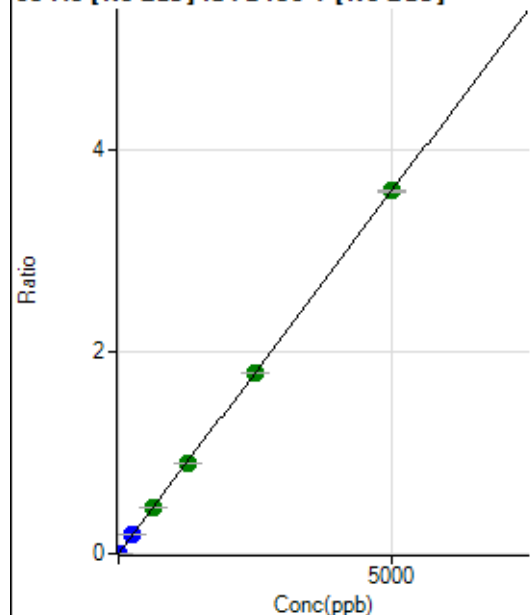
$$R = 1.0000$$

$$DL = 0.01811$$

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	69.45	0.0000	P	19.6
2	☐	0.500					
3	☐	5.000	4.869	40536.22	0.0035	P	1.7
4	☐	250.000	253.209	2081746.68	0.1817	P	0.3
5	☐	625.000	625.686	5041317.52	0.4491	A	0.2
6	☐	1250.000	1250.242	9720537.72	0.8973	A	0.4
7	☐	2500.000	2491.442	19571017.45	1.7882	A	0.5
8	☐	5000.000	5003.972	39612426.23	3.5915	A	0.5
9	☐			62758.99	0.0065	P	2.6

$$y = 7.1773\text{E-}004 * x + 5.7805\text{E-}006$$

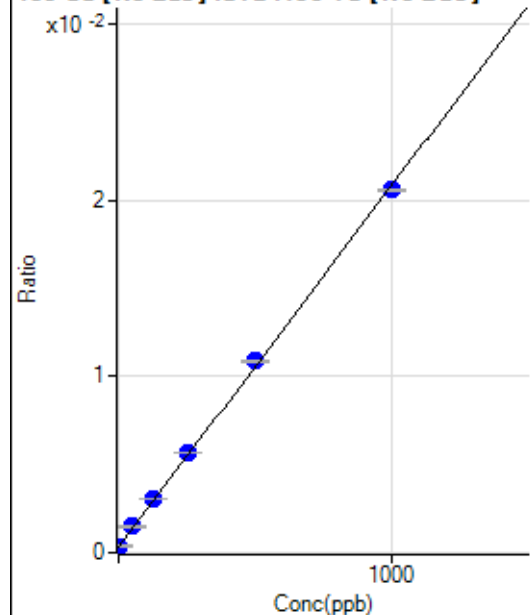
$$R = 1.0000$$

$$DL = 0.004734$$

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	5034.45	0.0003	P	2.8
2	☐	0.100					
3	☐	1.000	2.457	5537.48	0.0004	P	4.1
4	☐	50.000	55.776	21408.56	0.0015	P	0.7
5	☐	125.000	133.325	43754.70	0.0031	P	1.4
6	☐	250.000	261.558	79949.86	0.0057	P	1.2
7	☐	500.000	513.865	153494.94	0.0108	P	0.8
8	☐	1000.000	988.847	295097.12	0.0206	P	0.2
9	☐			4356.42	0.0003	P	10.9

$$y = 2.0465\text{E-}005 * x + 3.3106\text{E-}004$$

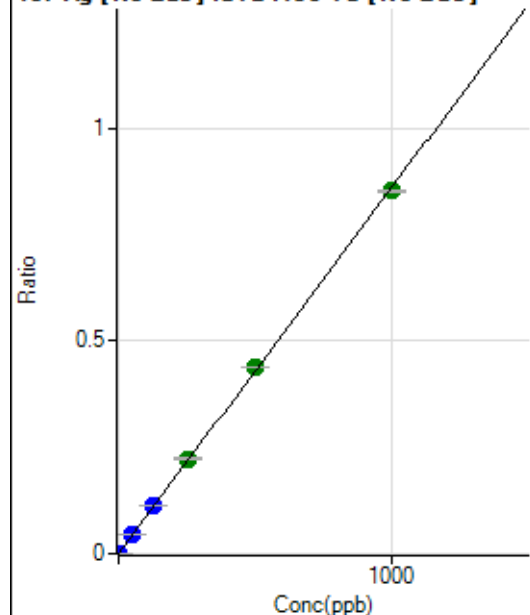
$$R = 0.9998$$

$$DL = 1.353$$

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	83.34	0.0000	P	16.7
2	☐	0.100					
3	☐	1.000	1.076	13515.26	0.0009	P	0.7
4	☐	50.000	54.431	680847.66	0.0468	P	0.4
5	☐	125.000	133.124	1637758.01	0.1145	P	0.2
6	☐	250.000	259.605	3141446.82	0.2233	A	0.7
7	☐	500.000	509.219	6198871.53	0.4381	A	0.3
8	☐	1000.000	991.752	12240782.57	0.8532	A	0.2
9	☐			2353.09	0.0002	P	8.2

$$y = 8.6025\text{E-}004 * x + 5.4780\text{E-}006$$

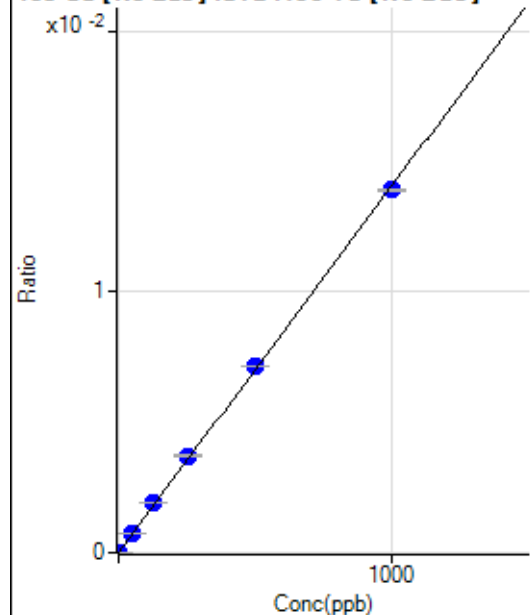
$$R = 0.9999$$

$$DL = 0.003192$$

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	9.72	0.0000	P	50.4
2	☐	0.100					
3	☐	1.000	1.085	230.56	0.0000	P	7.5
4	☐	50.000	54.588	11151.81	0.0008	P	1.4
5	☐	125.000	134.803	27073.33	0.0019	P	1.0
6	☐	250.000	264.343	52214.10	0.0037	P	1.3
7	☐	500.000	509.303	101195.33	0.0072	P	0.4
8	☐	1000.000	990.308	199494.48	0.0139	P	0.6
9	☐			108.34	0.0000	P	17.7

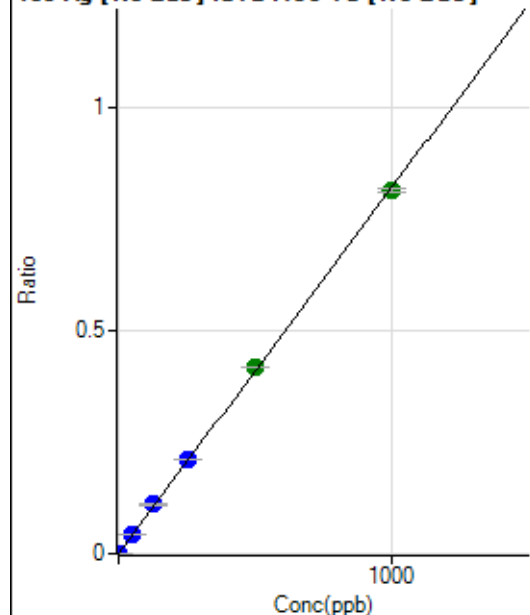
$$y = 1.4040\text{E-}005 * x + 6.4341\text{E-}007$$

$$R = 0.9998$$

$$DL = 0.06931$$

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	47.22	0.0000	P	72.7
2	☐	0.100					
3	☐	1.000	1.082	12917.52	0.0009	P	3.8
4	☐	50.000	54.545	649876.65	0.0447	P	0.3
5	☐	125.000	134.105	1571469.98	0.1099	P	0.9
6	☐	250.000	257.825	2971854.90	0.2113	P	1.2
7	☐	500.000	509.741	5910890.45	0.4177	A	0.3
8	☐	1000.000	991.808	11660496.88	0.8127	A	1.2
9	☐			2153.03	0.0002	P	8.0

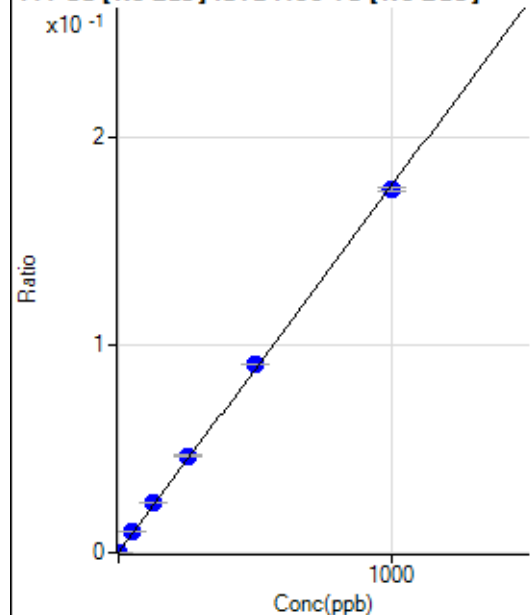
$$y = 8.1945\text{E-}004 * x + 3.0876\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.008223$$

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	2012.53	0.0001	P	3.0
2	☐	0.100					
3	☐	1.000	1.112	4777.53	0.0003	P	2.3
4	☐	50.000	54.703	142584.06	0.0098	P	0.4
5	☐	125.000	135.130	343644.02	0.0240	P	1.2
6	☐	250.000	263.292	656865.37	0.0467	P	0.7
7	☐	500.000	512.940	1285596.95	0.0909	P	0.1
8	☐	1000.000	988.705	2510687.62	0.1750	P	1.0
9	☐			2520.94	0.0002	P	6.7

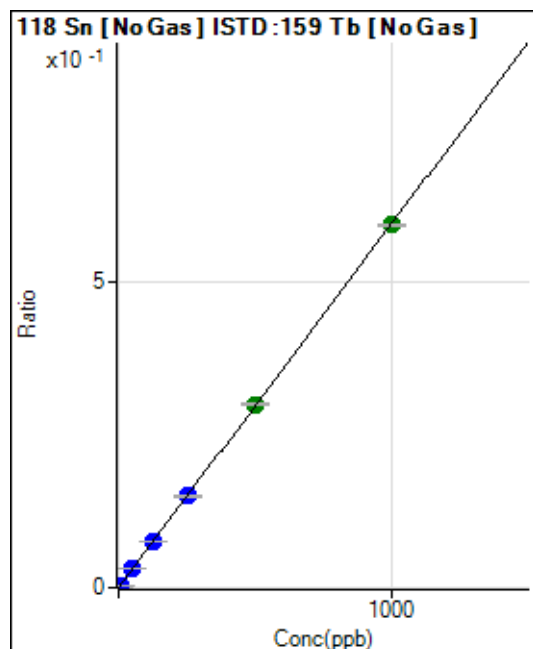
$$y = 1.7686\text{E-}004 * x + 1.3234\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.06762$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1570.03	0.0001	P	26.9
2	☐	0.500					
3	☐	5.000	4.989	44476.81	0.0031	P	2.5
4	☐	50.000	52.248	452095.30	0.0311	P	0.2
5	☐	125.000	128.295	1089734.22	0.0762	P	0.4
6	☐	250.000	251.542	2100268.38	0.1493	P	0.7
7	☐	500.000	503.826	4230498.66	0.2990	A	0.7
8	☐	1000.000	997.177	8488197.33	0.5916	A	0.5
9	☐			36428.81	0.0029	P	1.9

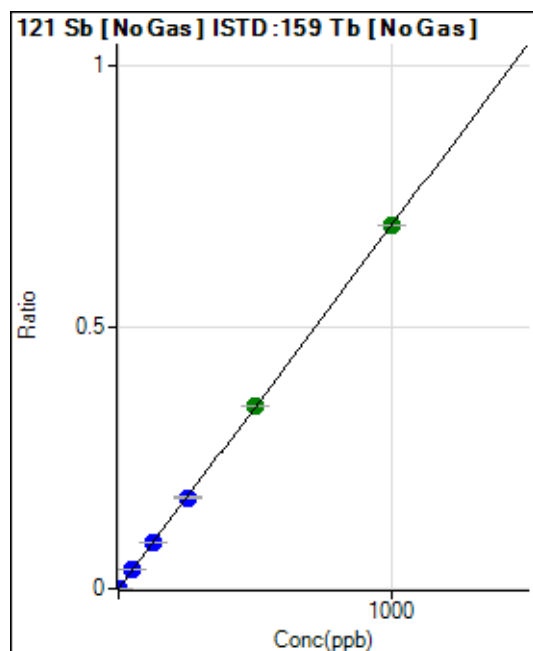
$$y = 5.9318\text{E-}004 * x + 1.0339\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1406$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	20.4
2	☐	0.200					
3	☐	2.000	1.929	19516.98	0.0013	P	1.6
4	☐	50.000	51.424	519844.72	0.0358	P	0.7
5	☐	125.000	127.630	1268991.57	0.0887	P	0.4
6	☐	250.000	250.400	2448871.84	0.1741	P	1.1
7	☐	500.000	501.990	4938839.65	0.3490	A	0.5
8	☐	1000.000	998.505	9960497.01	0.6942	A	0.1
9	☐			16671.69	0.0013	P	2.4

$$y = 6.9526\text{E-}004 * x + 2.7417\text{E-}006$$

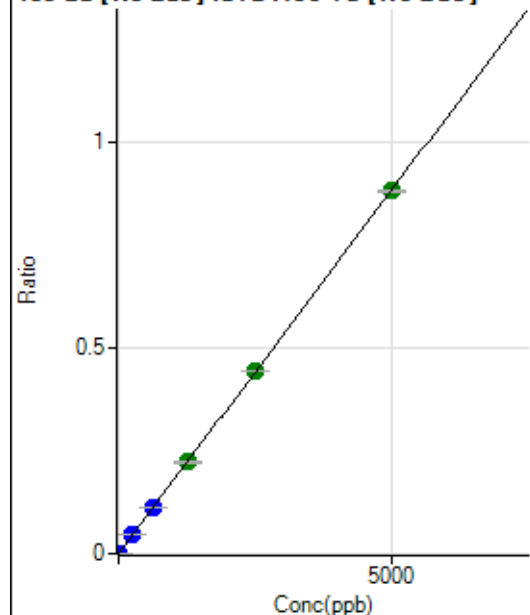
$$R = 1.0000$$

$$DL = 0.002409$$

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	22.22	0.0000	P	109.1
2	☐	1.000					
3	☐	10.000	9.671	24861.87	0.0017	P	2.1
4	☐	250.000	258.363	664451.00	0.0457	P	0.5
5	☐	625.000	636.548	1610114.37	0.1126	P	0.6
6	☐	1250.000	1257.376	3128469.54	0.2224	A	1.1
7	☐	2500.000	2509.416	6281156.57	0.4439	A	0.5
8	☐	5000.000	4991.587	12668075.89	0.8829	A	0.3
9	☐			3525.62	0.0003	P	8.5

$$y = 1.7688\text{E-}004 * x + 1.4719\text{E-}006$$

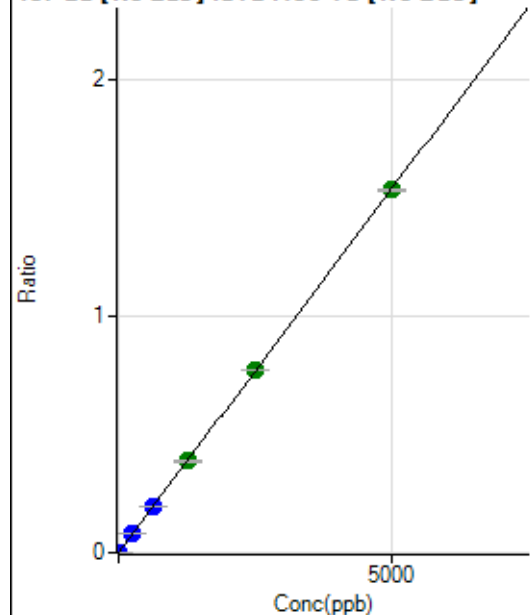
$$R = 1.0000$$

$$DL = 0.02723$$

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	36.11	0.0000	P	36.3
2	☐	1.000					
3	☐	10.000	9.826	43956.66	0.0030	P	0.7
4	☐	250.000	257.621	1153042.97	0.0793	P	0.5
5	☐	625.000	635.685	2798329.34	0.1957	P	0.7
6	☐	1250.000	1256.911	5442599.95	0.3869	A	1.0
7	☐	2500.000	2514.927	10955371.08	0.7742	A	0.3
8	☐	5000.000	4989.092	22035892.85	1.5358	A	0.4
9	☐			6187.78	0.0005	P	5.3

$$y = 3.0784\text{E-}004 * x + 2.3828\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.00844$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐						
3	☐			0.00		P	
4	☐			66.67		P	34.6
5	☐			200.01		P	20.3
6	☐			351.13		P	14.7
7	☐			651.15		P	3.0
8	☐			1164.53		P	7.4
9	☐			122.23		P	20.7

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐						
3	☐			3.33		P	100.1
4	☐			10.00		P	88.2
5	☐			20.00		P	33.4
6	☐			26.66		P	21.7
7	☐			83.34		P	28.8
8	☐			141.11		P	10.7
9	☐			60.00		P	0.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐						
3	☐			5.56		P	173.2
4	☐			16.67		P	50.0
5	☐			30.56		P	56.8
6	☐			72.23		P	13.3
7	☐			177.79		P	21.7
8	☐			205.56		P	10.2
9	☐			102.78		P	20.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			7.78		P	24.7
4	☐			15.56		P	12.4
5	☐			35.55		P	10.8
6	☐			66.67		P	15.0
7	☐			118.89		P	30.0
8	☐			190.00		P	15.2
9	☐			51.11		P	44.4

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

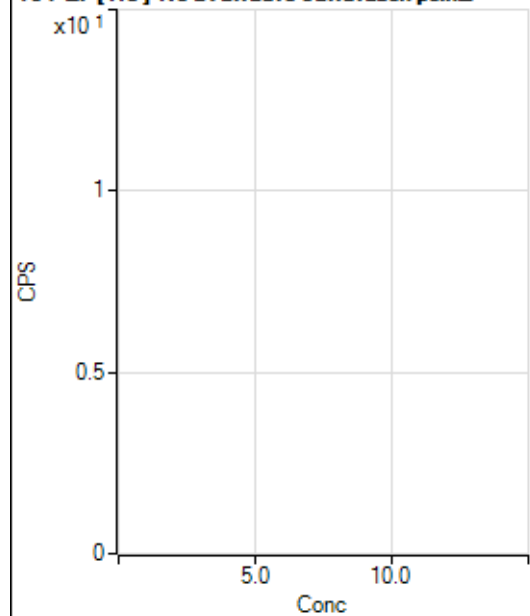
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.23		P	37.1
2	☐						
3	☐			75.00		P	11.1
4	☐			77.78		P	22.3
5	☐			105.56		P	22.8
6	☐			69.45		P	36.7
7	☐			161.12		P	31.6
8	☐			172.23		P	61.3
9	☐			158.34		P	10.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			215.56		P	17.0
2	☐						
3	☐			191.12		P	28.4
4	☐			245.56		P	8.3
5	☐			197.78		P	27.0
6	☐			217.78		P	7.9
7	☐			247.78		P	10.4
8	☐			256.67		P	7.2
9	☐			207.79		P	5.2

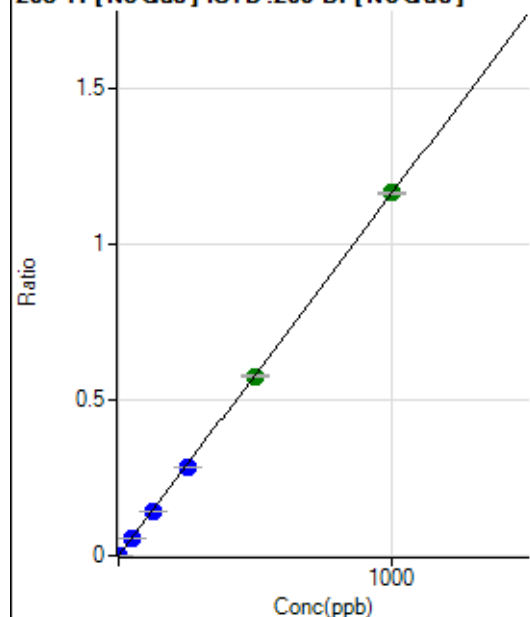
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	69.3
2	☐						
3	☐			55.56		P	37.8
4	☐			36.11		P	26.7
5	☐			38.89		P	75.3
6	☐			52.78		P	24.1
7	☐			55.56		P	75.5
8	☐			86.12		P	48.7
9	☐			52.78		P	32.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	28.6
2	☐						
3	☐			28.89		P	17.6
4	☐			23.33		P	14.3
5	☐			24.45		P	15.8
6	☐			32.22		P	31.6
7	☐			33.33		P	26.4
8	☐			44.44		P	17.3
9	☐			28.89		P	26.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.45	0.0000	P	27.1
2	☐	0.100					
3	☐	1.000	0.954	10493.50	0.0011	P	2.0
4	☐	50.000	49.408	538034.69	0.0573	P	0.9
5	☐	125.000	123.304	1325002.38	0.1430	P	0.6
6	☐	250.000	244.711	2613698.10	0.2838	P	0.6
7	☐	500.000	496.907	5278435.92	0.5763	A	0.4
8	☐	1000.000	1003.111	10478219.42	1.1634	A	0.2
9	☐			5882.12	0.0008	P	9.4

$$y = 0.0012 * x + 4.4861E-006$$

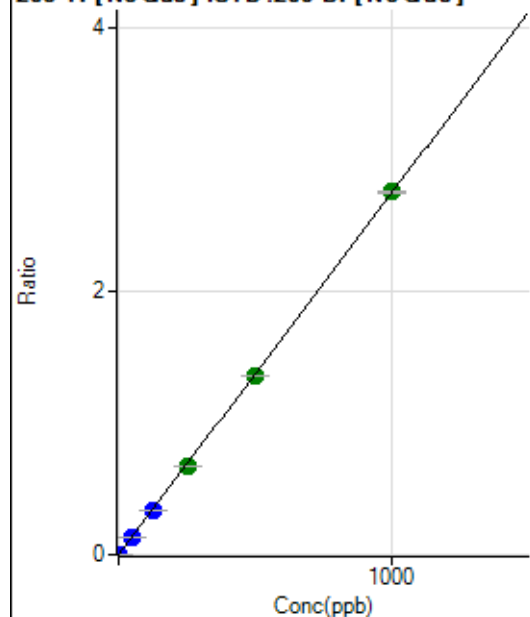
$$R = 1.0000$$

$$DL = 0.00314$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	147.23	0.0000	P	3.2
2	☐	0.100					
3	☐	1.000	0.970	25308.29	0.0027	P	0.2
4	☐	50.000	49.790	1284146.06	0.1368	P	0.5
5	☐	125.000	123.620	3146172.88	0.3396	P	0.4
6	☐	250.000	246.306	6230577.05	0.6766	A	0.4
7	☐	500.000	495.039	12454150.45	1.3598	A	0.6
8	☐	1000.000	1003.587	24827970.17	2.7568	A	0.4
9	☐			14394.44	0.0019	P	5.6

$$y = 0.0027 * x + 1.4899E-005$$

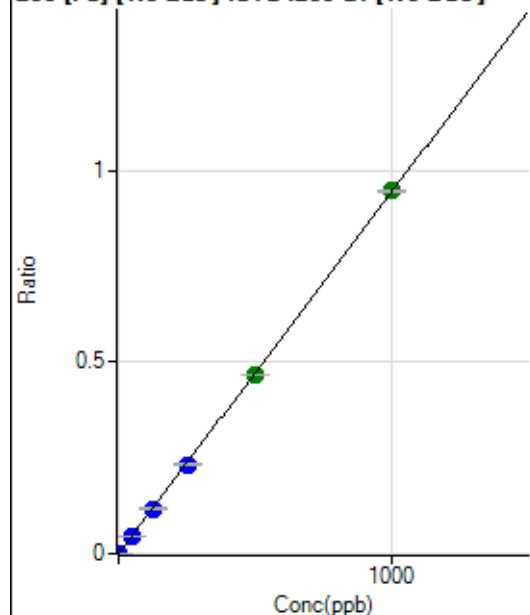
$$R = 1.0000$$

$$DL = 0.0005247$$

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	377.79	0.0000	P	10.5
2	☐	0.100					
3	☐	1.000	0.950	8838.34	0.0009	P	2.2
4	☐	50.000	49.790	441718.58	0.0471	P	0.4
5	☐	125.000	124.918	1093113.46	0.1180	P	0.6
6	☐	250.000	246.494	2143626.05	0.2328	P	0.9
7	☐	500.000	494.651	4277927.84	0.4671	A	0.6
8	☐	1000.000	1003.572	8534469.93	0.9476	A	0.2
9	☐			48341.81	0.0065	P	1.1

$$y = 9.4421\text{E-}004 * x + 3.8199\text{E-}005$$

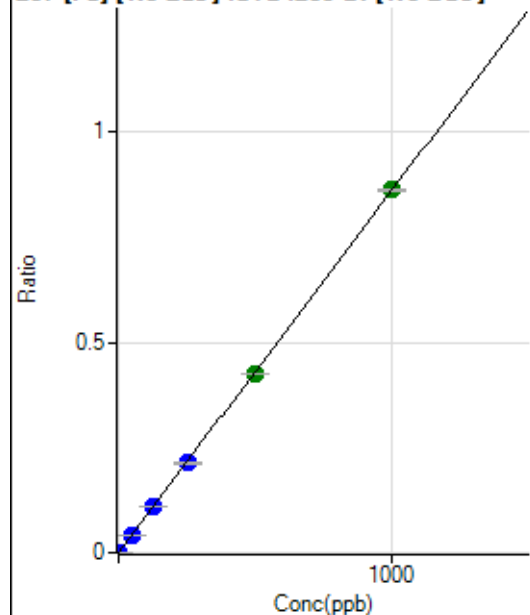
$$R = 1.0000$$

$$DL = 0.01278$$

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	348.16	0.0000	P	8.4
2	☐	0.100					
3	☐	1.000	0.966	8180.52	0.0009	P	2.6
4	☐	50.000	50.021	403921.81	0.0430	P	0.2
5	☐	125.000	125.114	996540.25	0.1076	P	0.0
6	☐	250.000	248.139	1964155.11	0.2133	P	0.8
7	☐	500.000	494.720	3894310.91	0.4252	A	0.4
8	☐	1000.000	1003.090	7764266.96	0.8621	A	0.3
9	☐			41149.19	0.0055	P	1.0

$$y = 8.5942\text{E-}004 * x + 3.5237\text{E-}005$$

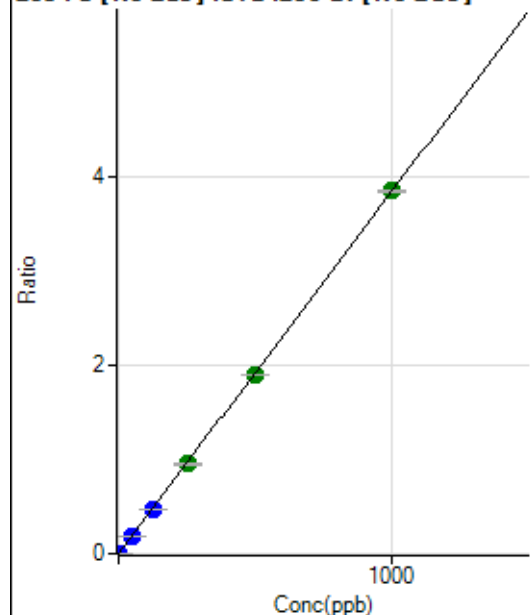
$$R = 1.0000$$

$$DL = 0.01036$$

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	1624.52	0.0002	P	18.1
2	☐	0.100					
3	☐	1.000	0.955	36259.17	0.0038	P	1.5
4	☐	50.000	49.922	1804617.06	0.1922	P	0.3
5	☐	125.000	124.640	4444109.73	0.4797	P	0.1
6	☐	250.000	247.253	8761039.88	0.9514	A	0.9
7	☐	500.000	495.294	17452950.77	1.9056	A	0.4
8	☐	1000.000	1003.089	34756394.70	3.8592	A	0.2
9	☐			190824.65	0.0257	P	0.6

$$y = 0.0038 * x + 1.6410E-004$$

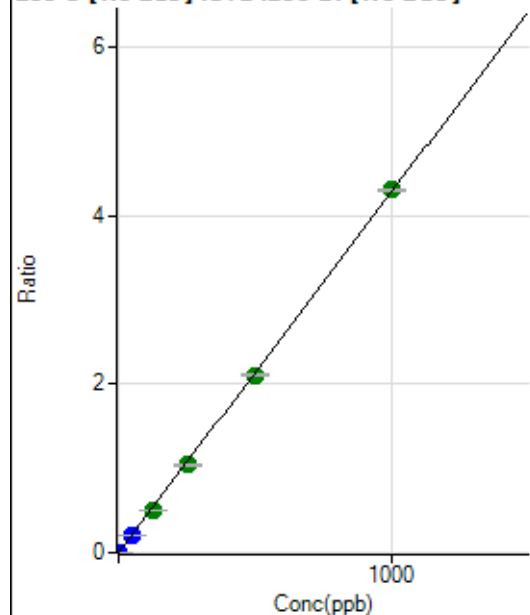
$$R = 1.0000$$

$$DL = 0.0232$$

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	52.78	0.0000	P	40.7
2	☐	0.100					
3	☐	1.000	0.905	36697.22	0.0039	P	1.5
4	☐	50.000	47.471	1909561.30	0.2034	P	0.6
5	☐	125.000	119.501	4743777.28	0.5120	A	0.3
6	☐	250.000	243.146	9593232.51	1.0418	A	0.7
7	☐	500.000	493.130	19351034.63	2.1128	A	0.2
8	☐	1000.000	1005.962	38817230.73	4.3101	A	0.2
9	☐			8108.44	0.0011	P	7.4

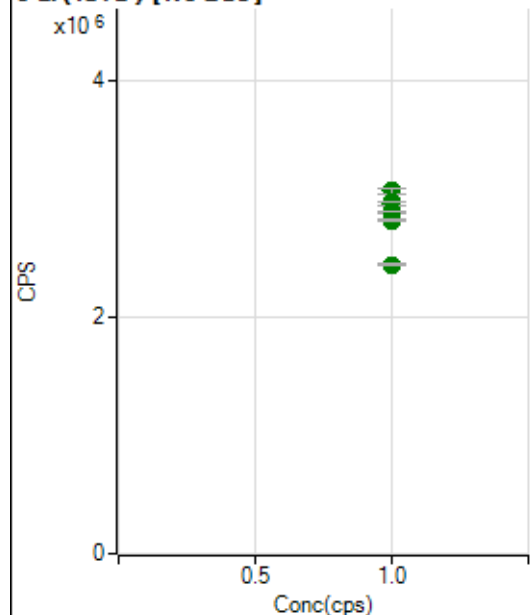
$$y = 0.0043 * x + 5.3493E-006$$

$$R = 0.9999$$

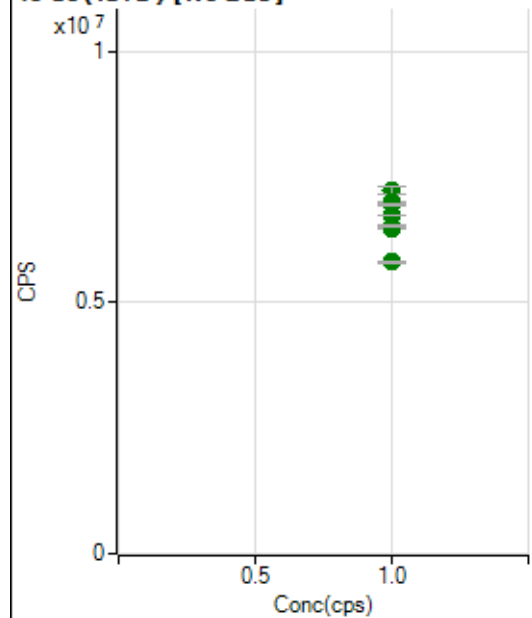
$$DL = 0.001523$$

Weight: <None>

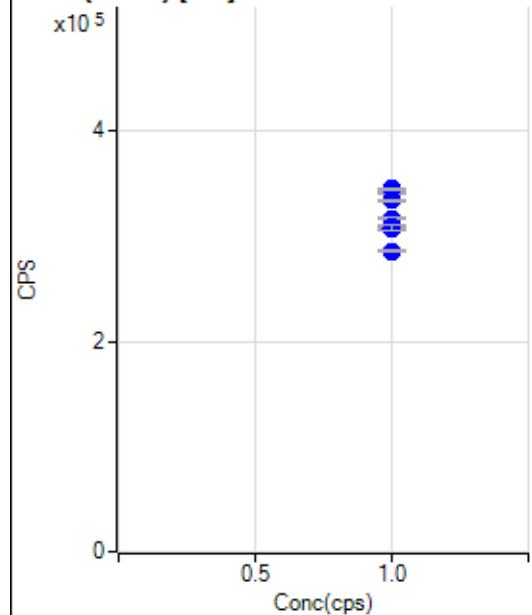
Min Conc: 0

6 Li (ISTD) [No Gas]

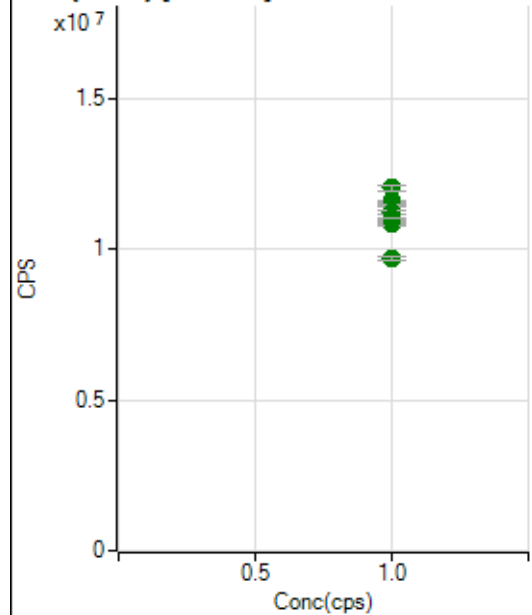
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3069956.38		A	1.3
2	☐	1.000					
3	☐	1.000		2962881.73		A	0.9
4	☐	1.000		2980309.71		A	0.4
5	☐	1.000		2956959.02		A	0.9
6	☐	1.000		2881393.40		A	0.5
7	☐	1.000		2895401.76		A	0.1
8	☐	1.000		2821646.38		A	0.4
9	☐	1.000		2444116.41		A	0.5

45 Sc (ISTD) [No Gas]

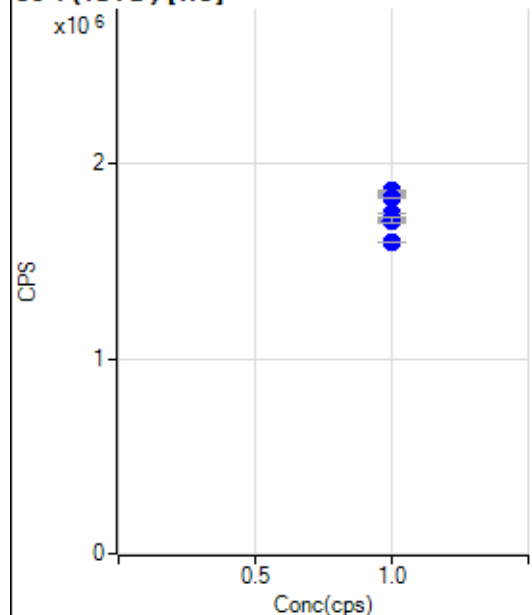
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7217172.99		A	2.2
2	☐	1.000					
3	☐	1.000		7004249.55		A	0.2
4	☐	1.000		6948198.94		A	0.5
5	☐	1.000		6733196.68		A	0.1
6	☐	1.000		6496915.94		A	0.6
7	☐	1.000		6480223.63		A	0.6
8	☐	1.000		6519167.33		A	0.4
9	☐	1.000		5799992.18		A	0.9

45 Sc (ISTD) [He]

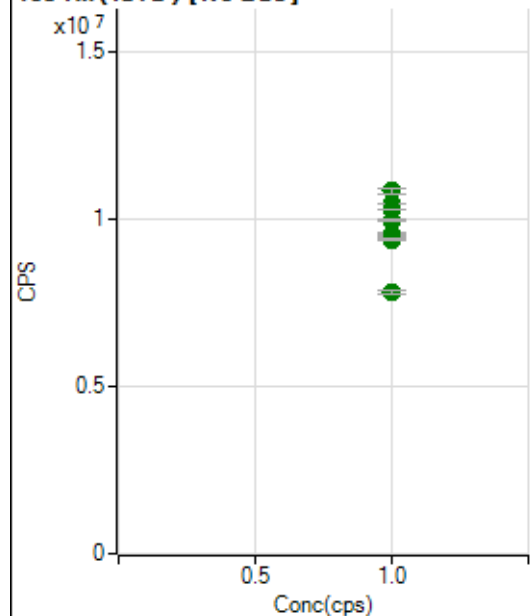
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		341281.89		P	0.4
2	☐	1.000					
3	☐	1.000		344791.19		P	0.3
4	☐	1.000		333908.38		P	0.6
5	☐	1.000		316740.05		P	0.3
6	☐	1.000		307233.29		P	0.5
7	☐	1.000		308887.31		P	0.5
8	☐	1.000		307418.16		P	1.9
9	☐	1.000		285541.49		P	0.6

89 Y (ISTD) [No Gas]

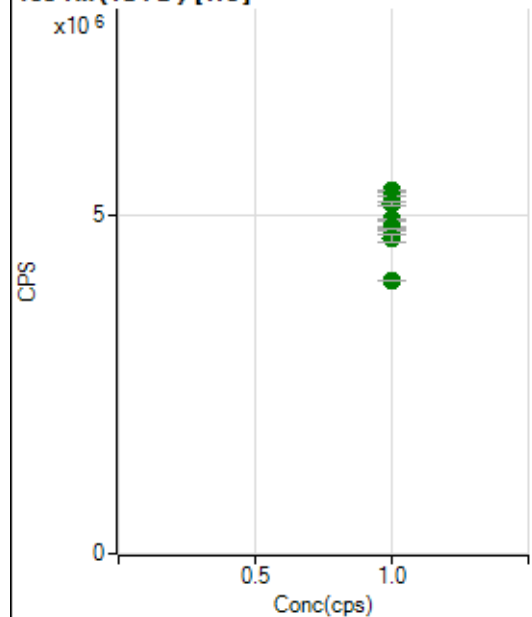
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		12036458.99		A	1.9
2	☐	1.000					
3	☐	1.000		11580017.05		A	0.6
4	☐	1.000		11454584.83		A	0.5
5	☐	1.000		11225838.30		A	0.8
6	☐	1.000		10832671.37		A	0.4
7	☐	1.000		10944646.92		A	0.2
8	☐	1.000		11029634.14		A	0.4
9	☐	1.000		9676529.09		A	1.4

89 Y(ISTD) [He]

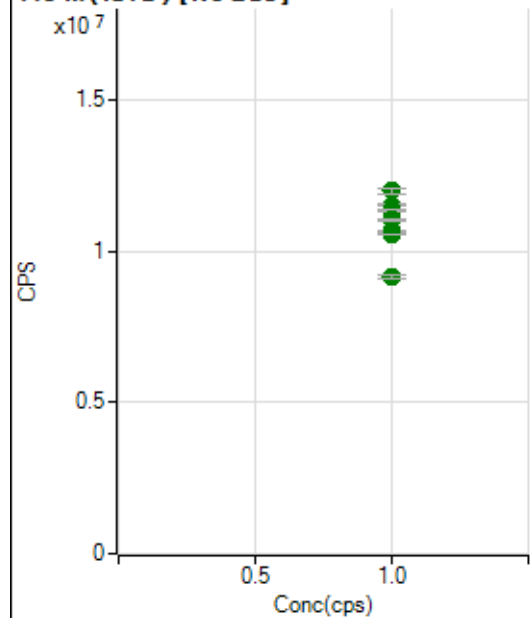
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1841558.22		P	0.1
2	☐	1.000					
3	☐	1.000		1862857.75		P	0.2
4	☐	1.000		1828589.14		P	0.3
5	☐	1.000		1745652.33		P	0.2
6	☐	1.000		1712436.57		P	0.1
7	☐	1.000		1716237.08		P	0.6
8	☐	1.000		1711361.93		P	1.9
9	☐	1.000		1603476.30		P	0.1

103 Rh(ISTD) [No Gas]

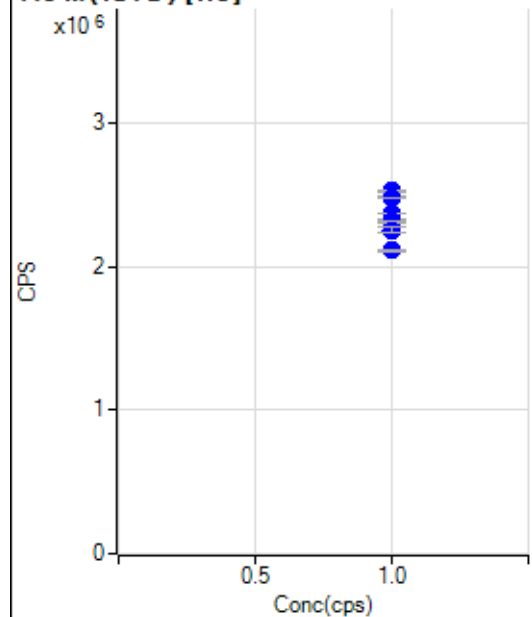
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		10822457.79		A	1.9
2	☐	1.000					
3	☐	1.000		10450245.89		A	0.4
4	☐	1.000		10276387.47		A	0.4
5	☐	1.000		9935181.13		A	0.8
6	☐	1.000		9531510.02		A	0.7
7	☐	1.000		9439825.99		A	0.2
8	☐	1.000		9368168.26		A	0.5
9	☐	1.000		7811569.97		A	1.4

103 Rh (ISTD) [He]

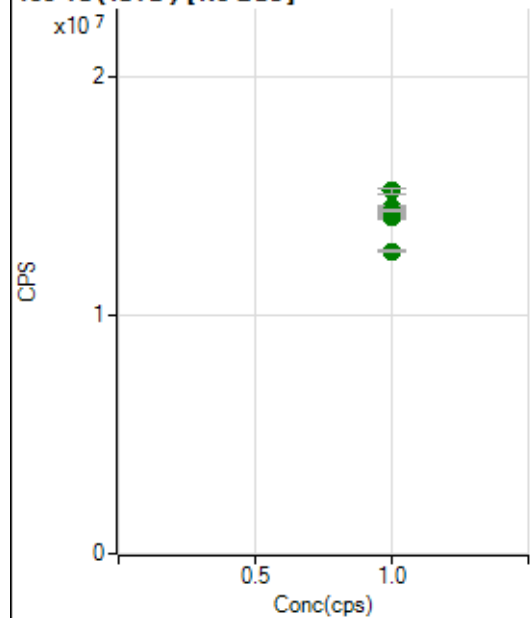
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5350662.21		A	0.4
2	☐	1.000					
3	☐	1.000		5280686.17		A	0.3
4	☐	1.000		5162422.35		A	0.8
5	☐	1.000		4930423.71		A	0.4
6	☐	1.000		4821024.96		A	0.3
7	☐	1.000		4765433.65		A	0.6
8	☐	1.000		4642533.65		A	2.6
9	☐	1.000		4034872.61		A	0.2

115 In (ISTD) [No Gas]

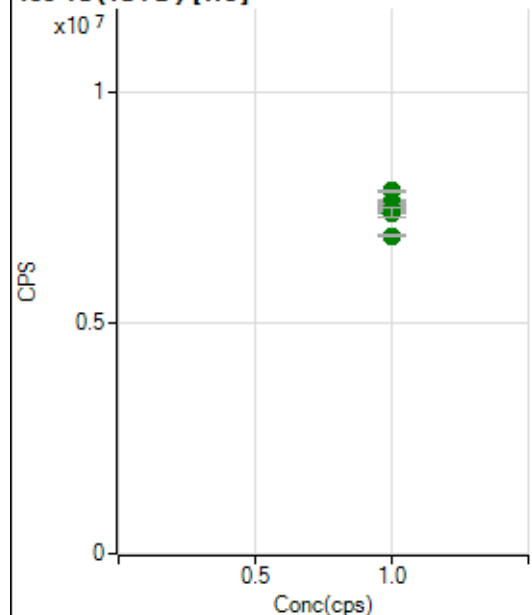
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11996426.72		A	1.6
2	☐	1.000					
3	☐	1.000		11531264.14		A	0.3
4	☐	1.000		11351524.01		A	0.2
5	☐	1.000		11035719.00		A	0.8
6	☐	1.000		10669473.63		A	0.5
7	☐	1.000		10681337.05		A	0.4
8	☐	1.000		10565764.46		A	0.3
9	☐	1.000		9151738.92		A	1.6

115 In (ISTD) [He]

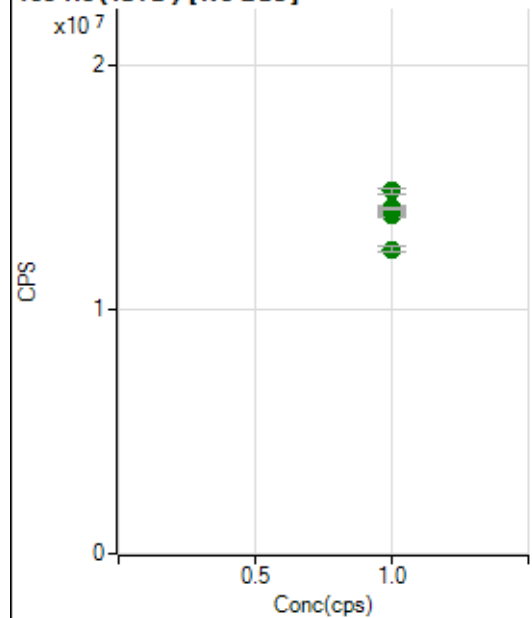
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2488296.74		P	0.2
2	☐	1.000					
3	☐	1.000		2526522.63		P	0.7
4	☐	1.000		2477084.03		P	0.4
5	☐	1.000		2370956.93		P	0.3
6	☐	1.000		2323296.47		P	0.3
7	☐	1.000		2309883.61		P	0.5
8	☐	1.000		2253025.54		P	2.0
9	☐	1.000		2111709.82		P	0.6

159 Tb (ISTD) [No Gas]

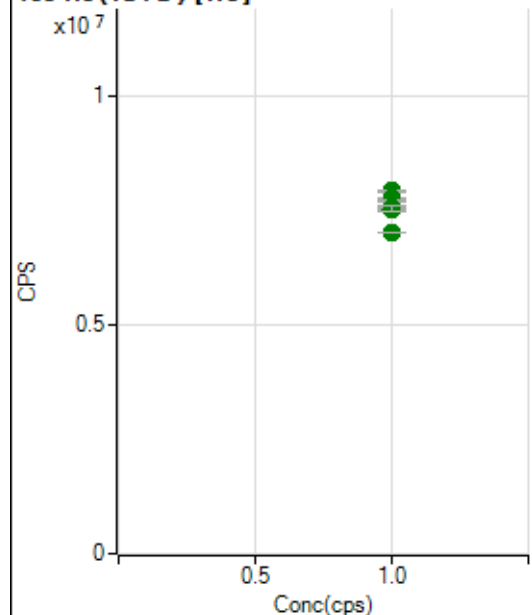
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		15202208.25		A	1.8
2	☐	1.000					
3	☐	1.000		14521281.31		A	0.3
4	☐	1.000		14538825.34		A	0.4
5	☐	1.000		14300287.71		A	0.8
6	☐	1.000		14066502.99		A	0.4
7	☐	1.000		14150686.46		A	0.1
8	☐	1.000		14347643.54		A	0.5
9	☐	1.000		12681764.81		A	0.9

159 Tb (ISTD) [He]

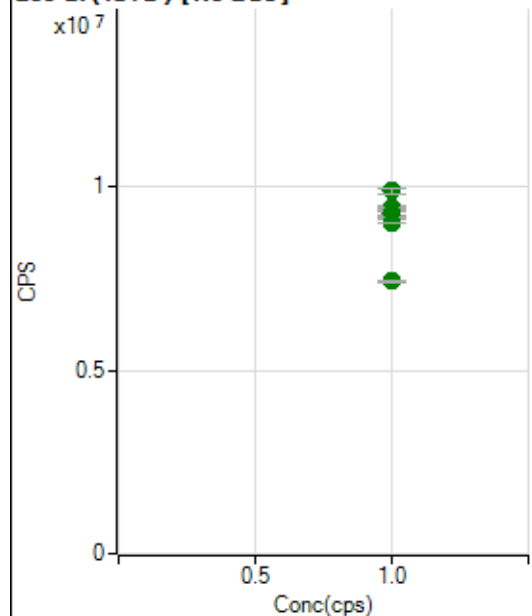
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7862908.91		A	0.5
2	☐	1.000					
3	☐	1.000		7639018.43		A	0.4
4	☐	1.000		7566675.79		A	0.5
5	☐	1.000		7441999.19		A	0.3
6	☐	1.000		7376869.06		A	0.4
7	☐	1.000		7442566.49		A	0.4
8	☐	1.000		7394101.21		A	2.5
9	☐	1.000		6886818.65		A	0.4

165 Ho (ISTD) [No Gas]

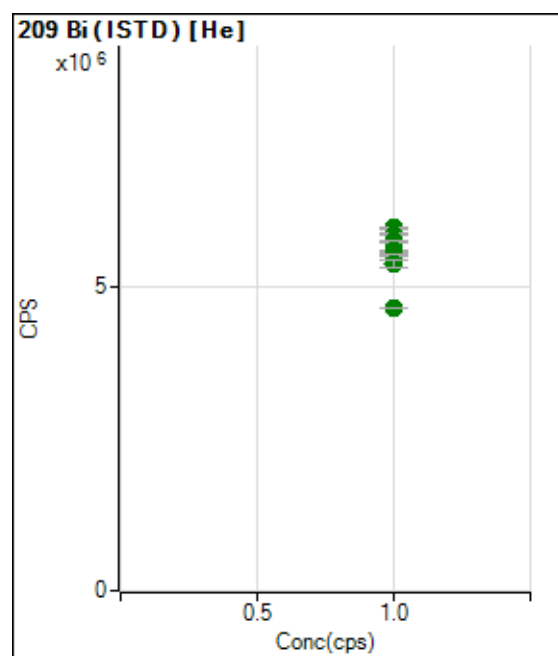
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		14852547.21		A	1.8
2	☐	1.000					
3	☐	1.000		14207583.48		A	0.3
4	☐	1.000		14177212.30		A	0.1
5	☐	1.000		14011243.37		A	0.6
6	☐	1.000		13823760.72		A	0.5
7	☐	1.000		13977190.94		A	0.4
8	☐	1.000		14130844.41		A	0.4
9	☐	1.000		12474898.98		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7929926.69		A	0.4
2	☐	1.000					
3	☐	1.000		7780599.89		A	0.3
4	☐	1.000		7692999.75		A	0.5
5	☐	1.000		7548404.12		A	0.0
6	☐	1.000		7538853.29		A	0.3
7	☐	1.000		7579139.47		A	0.3
8	☐	1.000		7536682.66		A	2.0
9	☐	1.000		7015427.26		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		9882489.16		A	1.7
2	☐	1.000					
3	☐	1.000		9449600.48		A	0.4
4	☐	1.000		9388246.25		A	0.3
5	☐	1.000		9264949.79		A	0.8
6	☐	1.000		9208833.20		A	0.6
7	☐	1.000		9158748.68		A	0.6
8	☐	1.000		9006172.78		A	0.3
9	☐	1.000		7420982.53		A	1.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		5955963.94		A	0.2
2	☐	1.000					
3	☐	1.000		5848245.05		A	0.6
4	☐	1.000		5733062.14		A	0.3
5	☐	1.000		5584515.68		A	0.3
6	☐	1.000		5542902.49		A	0.2
7	☐	1.000		5503826.24		A	0.2
8	☐	1.000		5359349.58		A	2.1
9	☐	1.000		4640464.10		A	0.2

US EPA Tune Check Sample Report

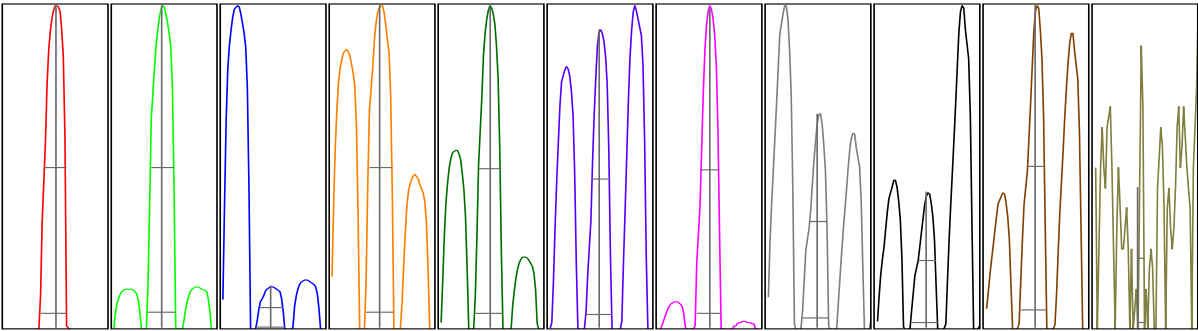
Batch Folder D:\ICP-MS Data\P7080318-MS .bb
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	10941	1.88	5.00	
24	525358	1.39	5.00	
25	70239	1.50	5.00	
26	81101	1.49	5.00	
59	92822	1.19	5.00	
113	12865	1.00	5.00	
115	165845	4.19	5.00	
206	36728	1.18	5.00	
207	33675	1.08	5.00	
208	79422	1.67	5.00	
220	0	24.49		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	10648	10827	10984	11079	11166
24	515232	520914	526647	531736	532261
25	68816	69551	70453	70956	71421
26	79408	80311	81472	82064	82247
59	91141	92337	93163	93761	93708
113	12986	12999	12857	12788	12698
115	174051	170547	167125	159711	157792
206	36016	36659	36918	36914	37135
207	33251	33371	33863	33751	34141
208	77313	79072	79772	80243	80710
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	18145	9.05	8.9 - 9.1		0.774	0.900	
24	822506	23.95	23.9 - 24.1		0.826	0.900	
25	108920	24.95	24.9 - 25.1		0.831	0.900	
26	126086	25.95	25.9 - 26.1		0.829	0.900	
59	157145	59.00	58.9 - 59.1		0.816	0.900	
113	25194	113.00	112.9 - 113.1		0.746	0.900	
115	315800	115.05	114.9 - 115.1		0.732	0.900	
206	71981	206.00	205.9 - 206.1		0.766	0.900	
207	65848	207.00	206.9 - 207.1		0.775	0.900	
208	156531	208.00	207.9 - 208.1		0.776	0.900	
220	0	219.80	-		0.196		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.7	V	Deflect	15.0	V
Extract 2	-115.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-55	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	25743	0.27	
89	48151	0.17	
205	33530	0.55	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	25708	25794	25791	25639	25784
89	48133	48275	48102	48177	48070
205	33238	33692	33647	33465	33608

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.6	V	Deflect	2.2	V
Extract 2	-135.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-65	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	190	V			