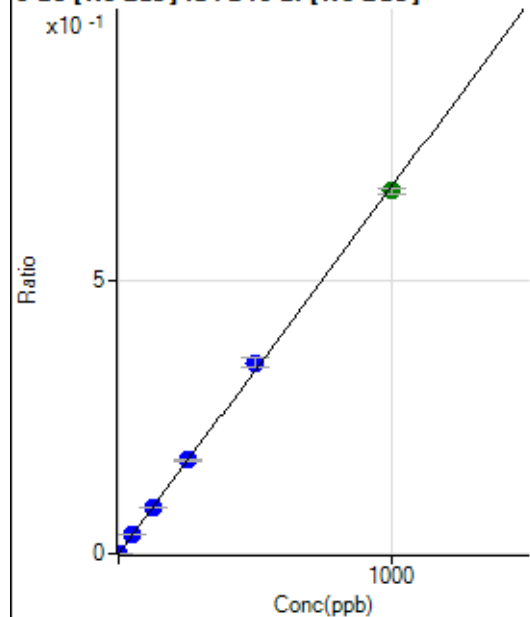


Batch Folder: D:\P8070518 MS.b\
Analysis File: P8070518 MS.batch.bin
DA Date-Time: 2018-07-05 23:49:09
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-07-05 12:00:24
2			
3	005CALS.d	S02	2018-07-05 12:08:03
4	006CALS.d	S03	2018-07-05 12:11:45
5	007CALS.d	S04	2018-07-05 12:15:26
6	008CALS.d	S05	2018-07-05 12:19:01
7	009CALS.d	S06	2018-07-05 12:22:31
8	010CALS.d	S07	2018-07-05 12:25:57
9	011CALS.d	S08	2018-07-05 12:29:18

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0000	P	44.4
2	☐	0.100					
3	☐	1.000	1.036	1396.41	0.0007	P	5.9
4	☐	50.000	52.173	67387.34	0.0351	P	1.6
5	☐	125.000	126.726	165730.80	0.0851	P	1.3
6	☐	250.000	255.352	324348.15	0.1714	P	2.2
7	☐	500.000	519.325	638036.13	0.3485	P	4.9
8	☐	1000.000	988.675	1258240.90	0.6635	A	1.8
9	☐			600.03	0.0003	P	13.6

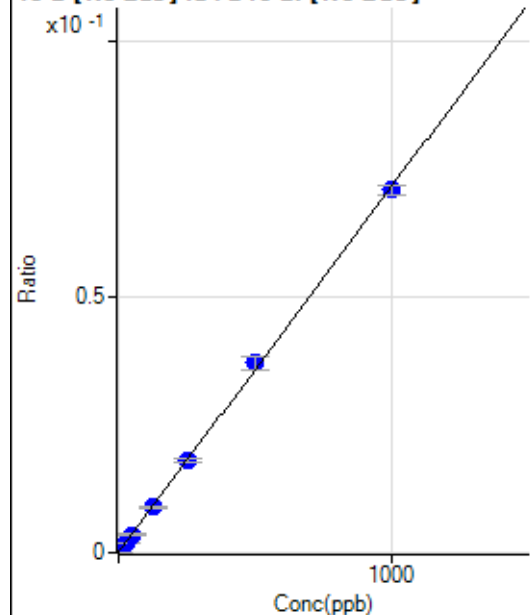
$$y = 6.7108\text{E-}004 * x + 4.0200\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.07979$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.68	0.0001	P	40.6
2	☐	2.500					
3	☐	25.000	24.669	3520.02	0.0019	P	2.8
4	☐	50.000	48.524	6838.04	0.0036	P	2.0
5	☐	125.000	124.700	17539.05	0.0090	P	4.4
6	☐	250.000	251.081	34147.23	0.0180	P	3.4
7	☐	500.000	517.502	67872.45	0.0371	P	7.1
8	☐	1000.000	991.098	134575.59	0.0710	P	2.8
9	☐			6799.10	0.0038	P	14.4

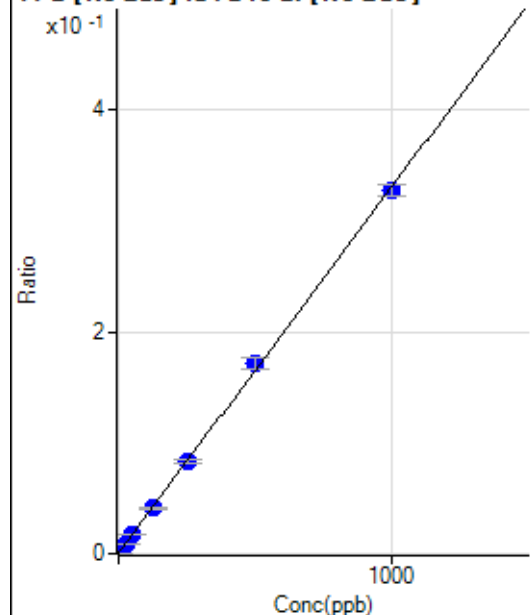
$$y = 7.1519\text{E-}005 * x + 8.6487\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.472$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	969.52	0.0005	P	8.6
2	☐	2.500					
3	☐	25.000	24.994	16618.72	0.0087	P	1.7
4	☐	50.000	50.955	33267.28	0.0173	P	2.0
5	☐	125.000	123.524	80317.01	0.0412	P	4.1
6	☐	250.000	251.591	157949.81	0.0835	P	3.0
7	☐	500.000	519.371	314442.41	0.1718	P	5.7
8	☐	1000.000	990.053	620101.01	0.3270	P	3.1
9	☐			31257.28	0.0173	P	11.2

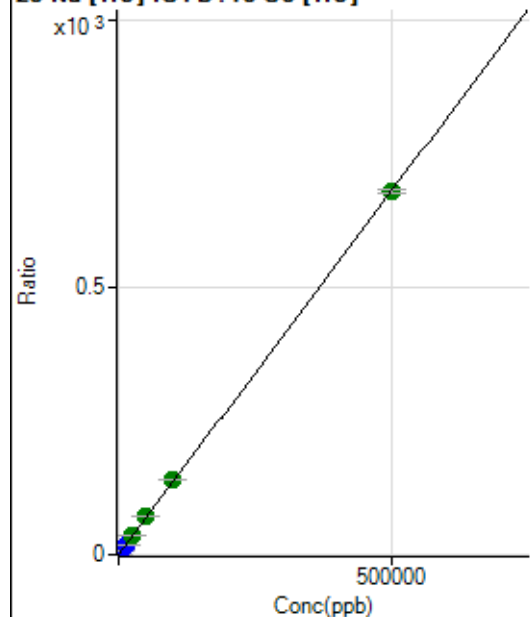
$$y = 3.2979\text{E-}004 * x + 4.9954\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.3923$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4873.28	0.0956	P	3.5
2	☐	50.000					
3	☐	500.000	497.543	39491.95	0.7712	P	1.8
4	☐	5000.000	5308.005	367262.28	7.3029	P	1.6
5	☐	12500.000	13505.103	896137.59	18.4332	P	4.5
6	☐	25000.000	26538.948	1770142.79	36.1308	A	0.8
7	☐	50000.000	52886.375	3356097.56	71.9060	A	2.6
8	☐	100000.00	103554.39	6406629.09	140.7043	A	0.1
9	☐	500000.00	498895.33	32074669.82	677.5080	A	1.1

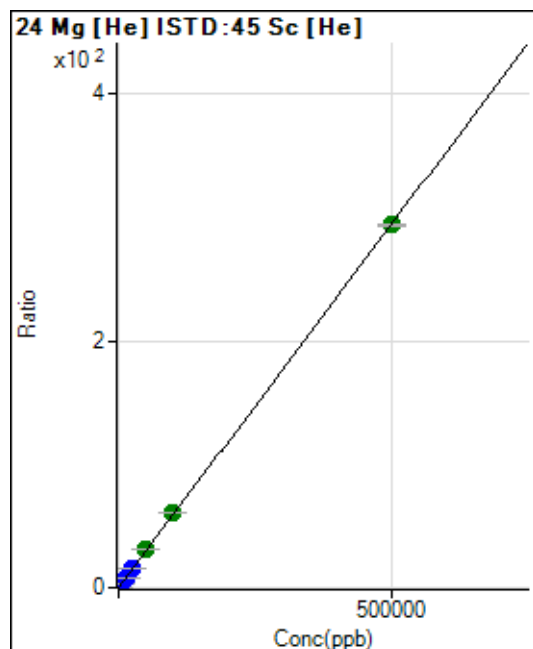
$$y = 0.0014 * x + 0.0956$$

$$R = 1.0000$$

$$DL = 7.29$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.12	0.0037	P	12.9
2	☐	50.000					
3	☐	500.000	491.992	15028.01	0.2935	P	2.5
4	☐	5000.000	5220.044	154820.45	3.0788	P	2.1
5	☐	12500.000	13381.440	383484.88	7.8868	P	4.0
6	☐	25000.000	25618.959	739587.09	15.0961	P	0.9
7	☐	50000.000	52405.282	1441352.70	30.8762	A	1.6
8	☐	100000.00	102881.88	2759916.38	60.6126	A	0.6
9	☐	500000.00	499127.91	13921227.57	294.0457	A	0.5

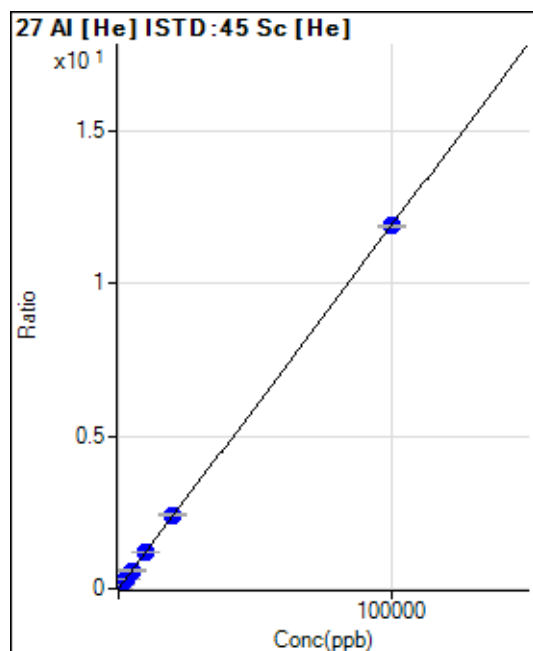
$$y = 5.8911\text{E-}004 * x + 0.0037$$

$$R = 1.0000$$

$$DL = 2.391$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0003	P	100.0
2	☐	2.000					
3	☐	20.000	23.666	161.12	0.0031	P	23.8
4	☐	1000.000	1044.252	6268.34	0.1247	P	4.7
5	☐	2500.000	2595.637	15033.56	0.3095	P	7.5
6	☐	5000.000	5001.807	29194.99	0.5960	P	5.4
7	☐	10000.000	10220.512	56839.53	1.2176	P	1.6
8	☐	20000.000	20377.207	110514.68	2.4273	P	0.9
9	☐	100000.00	99899.583	563317.54	11.8984	P	0.7

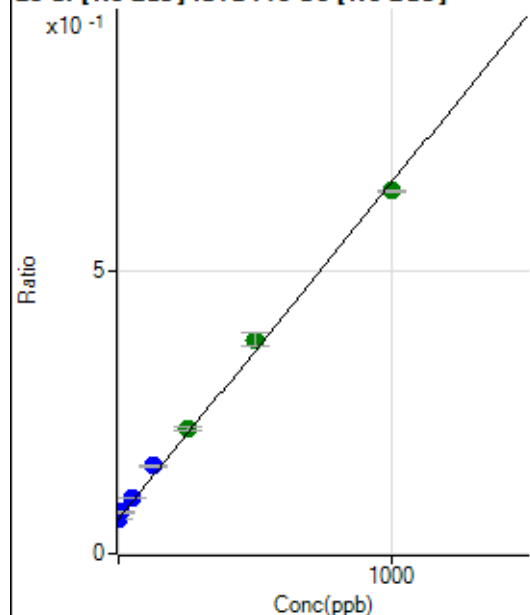
$$y = 1.1910\text{E-}004 * x + 3.2710\text{E-}004$$

$$R = 1.0000$$

$$DL = 8.241$$

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	390920.91	0.0619	P	2.7
2	☐	1.000					
3	☐	10.000	19.675	454865.56	0.0737	P	5.6
4	☐	50.000	63.027	623023.24	0.0995	P	1.1
5	☐	125.000	156.502	973529.29	0.1552	P	1.6
6	☐	250.000	266.230	1338849.73	0.2207	A	2.9
7	☐	500.000	531.692	2223190.15	0.3789	A	6.1
8	☐	1000.000	975.410	3872139.41	0.6435	A	0.7
9	☐			686548.92	0.1178	P	2.8

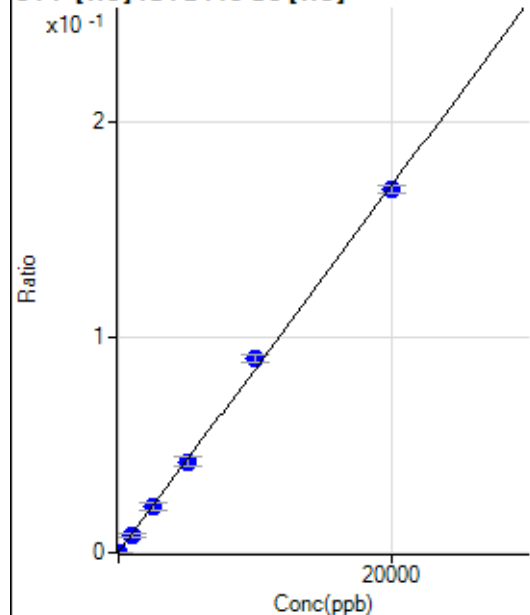
$$y = 5.9618\text{E-}004 * x + 0.0619$$

$$R = 0.9989$$

$$DL = 8.46$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	6.434	13.89	0.0003	P	91.6
2	☐	0.000					
3	☐	0.000	-6.434	8.33	0.0002	P	1.3
4	☐	1000.000	900.413	397.25	0.0079	P	16.6
5	☐	2500.000	2463.780	1027.86	0.0212	P	17.6
6	☐	5000.000	4942.353	2075.25	0.0423	P	10.1
7	☐	10000.000	10524.453	4198.02	0.0899	P	3.9
8	☐	20000.000	19761.692	7680.24	0.1687	P	2.2
9	☐			16.67	0.0004	P	50.8

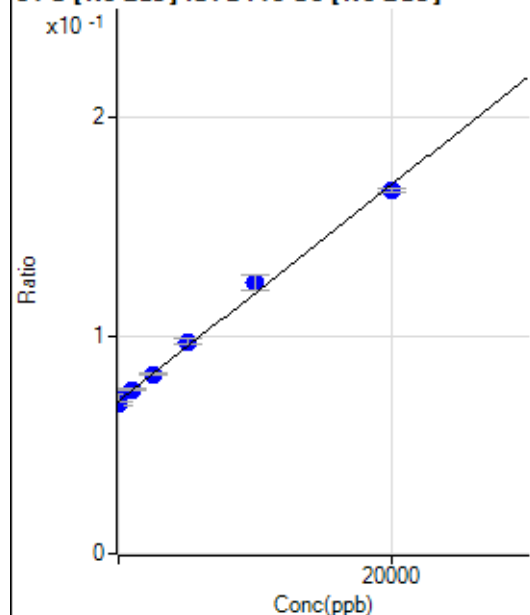
$$y = 8.5244\text{E-}006 * x + 2.1751\text{E-}004$$

$$R = 0.9995$$

$$DL = 44.29$$

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	-234.131	435583.76	0.0690	P	2.0
2	☐	0.000					
3	☐	0.000	234.131	440542.58	0.0713	P	4.9
4	☐	1000.000	1066.667	472486.02	0.0755	P	0.8
5	☐	2500.000	2453.836	516490.31	0.0824	P	0.8
6	☐	5000.000	5504.702	591616.25	0.0975	P	3.2
7	☐	10000.000	10946.773	730726.43	0.1245	P	6.1
8	☐	20000.000	19402.875	1002259.05	0.1666	P	0.9
9	☐			427570.49	0.0734	P	3.3

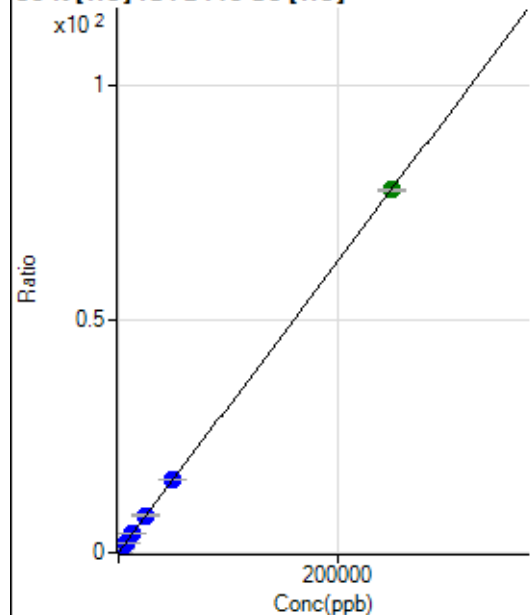
$$y = 4.9676\text{E-}006 * x + 0.0702$$

$$R = 0.9977$$

$$DL = 1465$$

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	2630.93	0.0516	P	5.8
2	☐	50.000					
3	☐	500.000	473.336	10179.11	0.1988	P	3.0
4	☐	2500.000	2603.794	43303.71	0.8611	P	1.2
5	☐	6250.000	6587.926	102067.94	2.0996	P	4.9
6	☐	12500.000	12806.777	197590.55	4.0330	P	0.5
7	☐	25000.000	25480.081	372181.68	7.9728	P	1.8
8	☐	50000.000	50273.793	713969.08	15.6806	P	0.3
9	☐	250000.00	249872.46	3680216.92	77.7315	A	0.6

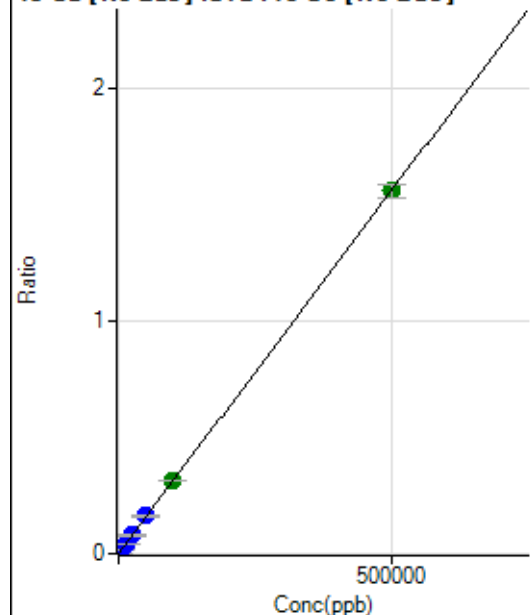
$$y = 3.1088\text{E-}004 * x + 0.0516$$

$$R = 1.0000$$

$$DL = 29.01$$

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	1013.97	0.0002	P	5.2
2	☐	50.000					
3	☐	500.000	495.223	10529.39	0.0017	P	7.0
4	☐	5000.000	5035.328	99378.31	0.0159	P	1.5
5	☐	12500.000	12489.212	245419.20	0.0391	P	0.5
6	☐	25000.000	25279.628	479640.36	0.0790	P	2.3
7	☐	50000.000	52406.157	960506.32	0.1637	P	5.8
8	☐	100000.00	100298.30	1884359.14	0.3131	A	0.3
9	☐	500000.00	499685.66	9082487.88	1.5594	A	3.6

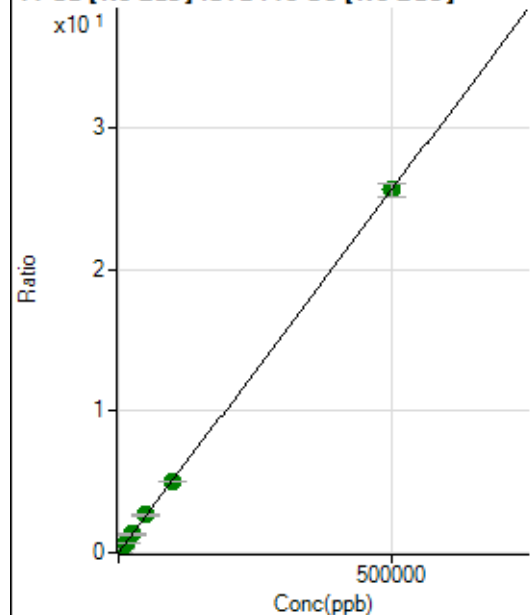
$$y = 3.1204\text{E-}006 * x + 1.6063\text{E-}004$$

$$R = 1.0000$$

$$DL = 8.057$$

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	29696.40	0.0047	P	2.3
2	☐	50.000					
3	☐	500.000	479.975	180903.53	0.0293	P	5.3
4	☐	5000.000	5114.473	1669844.95	0.2667	A	0.8
5	☐	12500.000	12509.708	4048399.01	0.6455	A	1.2
6	☐	25000.000	25231.396	7870328.47	1.2972	A	3.3
7	☐	50000.000	51928.174	15633677.78	2.6648	A	6.4
8	☐	100000.00	98772.179	30476915.61	5.0645	A	0.5
9	☐	500000.00	500039.81	149213745.0	25.6201	A	3.9

$$y = 5.1227\text{E-}005 * x + 0.0047$$

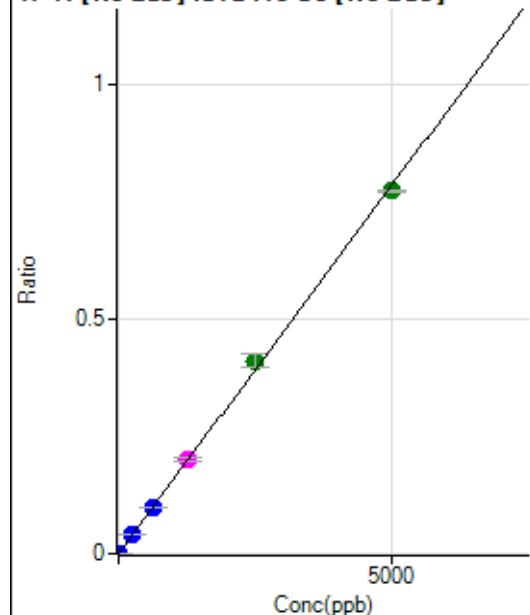
$$R = 1.0000$$

$$DL = 6.471$$

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	155.57	0.0000	P	21.2
2	☐	0.500					
3	☐	5.000	4.944	4948.33	0.0008	P	2.4
4	☐	250.000	252.526	248257.64	0.0397	P	0.9
5	☐	625.000	623.764	613996.86	0.0979	P	1.4
6	☐	1250.000	1284.621	1223239.12	0.2016	M	3.2
7	☐	2500.000	2623.013	2414899.64	0.4116	A	6.4
8	☐	5000.000	4929.867	4655497.33	0.7736	A	0.5
9	☐			2906.01	0.0005	P	7.3

$$y = 1.5692\text{E-}004 * x + 2.4617\text{E-}005$$

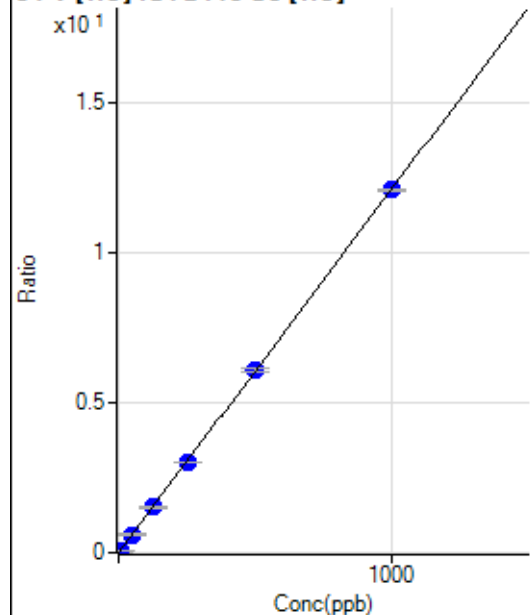
$$R = 0.9995$$

$$DL = 0.09962$$

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	13.33	0.0003	P	49.9
2	☐	0.500					
3	☐	5.000	4.582	2855.90	0.0558	P	3.4
4	☐	50.000	50.195	30600.33	0.6085	P	1.1
5	☐	125.000	126.583	74598.32	1.5341	P	3.8
6	☐	250.000	248.908	147768.95	3.0163	P	1.5
7	☐	500.000	503.249	284658.63	6.0981	P	1.9
8	☐	1000.000	998.443	550859.02	12.0984	P	0.6
9	☐			270.01	0.0057	P	3.7

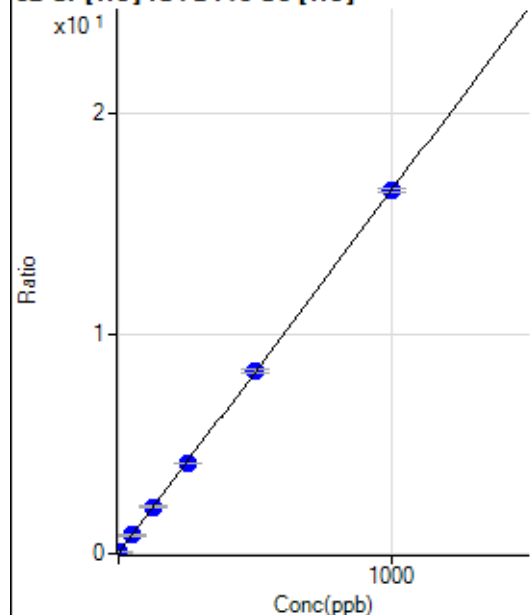
$$y = 0.0121 * x + 2.6150\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.03233$$

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	684.48	0.0134	P	8.6
2	☐	0.200					
3	☐	2.000	1.983	2363.58	0.0462	P	1.6
4	☐	50.000	50.115	42261.58	0.8406	P	3.7
5	☐	125.000	127.982	103350.56	2.1259	P	4.4
6	☐	250.000	249.001	202011.67	4.1233	P	0.9
7	☐	500.000	503.192	388312.82	8.3189	P	2.0
8	☐	1000.000	998.275	750831.88	16.4906	P	0.9
9	☐			25271.92	0.5338	P	1.4

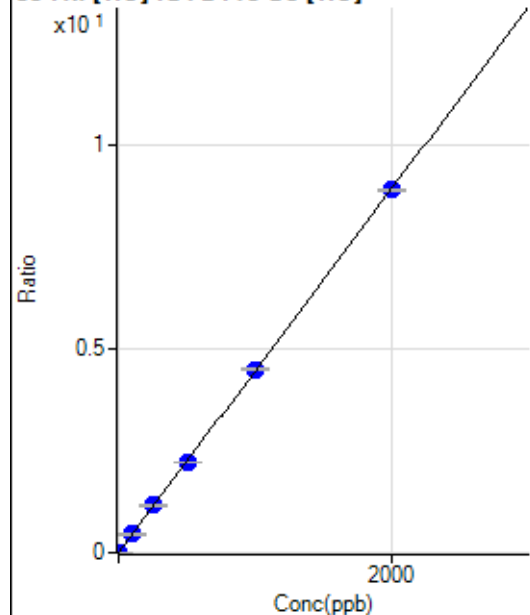
$$y = 0.0165 * x + 0.0134$$

$$R = 1.0000$$

$$DL = 0.2097$$

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	87.78	0.0017	P	24.4
2	☐	0.100					
3	☐	1.000	1.077	333.35	0.0065	P	17.1
4	☐	100.000	101.256	22749.89	0.4525	P	4.2
5	☐	250.000	259.518	56248.29	1.1572	P	5.1
6	☐	500.000	497.013	108495.76	2.2145	P	1.1
7	☐	1000.000	1008.820	209743.45	4.4932	P	1.8
8	☐	2000.000	1995.084	404511.05	8.8843	P	0.7
9	☐			1955.73	0.0413	P	4.5

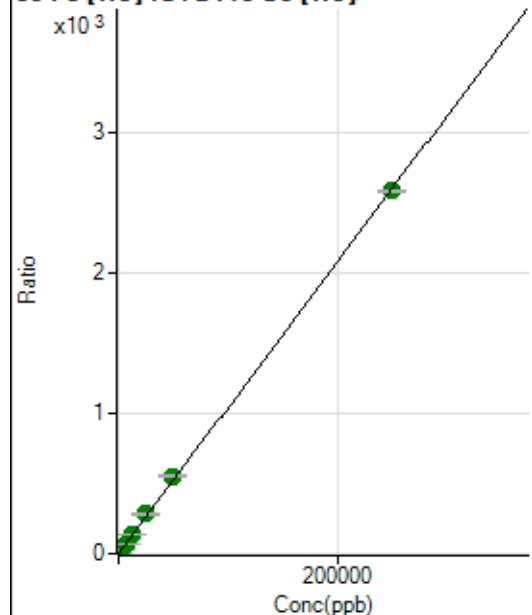
$$y = 0.0045 * x + 0.0017$$

$$R = 1.0000$$

$$DL = 0.2834$$

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	1987.24	0.0390	P	3.8
2	☐	5.000					
3	☐	50.000	51.418	29266.40	0.5716	P	2.8
4	☐	2500.000	2757.027	1437809.68	28.5976	A	3.1
5	☐	6250.000	6993.094	3522597.50	72.4768	A	5.4
6	☐	12500.000	13285.192	6743752.87	137.6534	A	1.5
7	☐	25000.000	27079.706	13095813.37	280.5436	A	1.8
8	☐	50000.000	53286.855	25133318.85	552.0099	A	1.0
9	☐	250000.00	249074.25	122150572.1	2,580.069	A	0.5

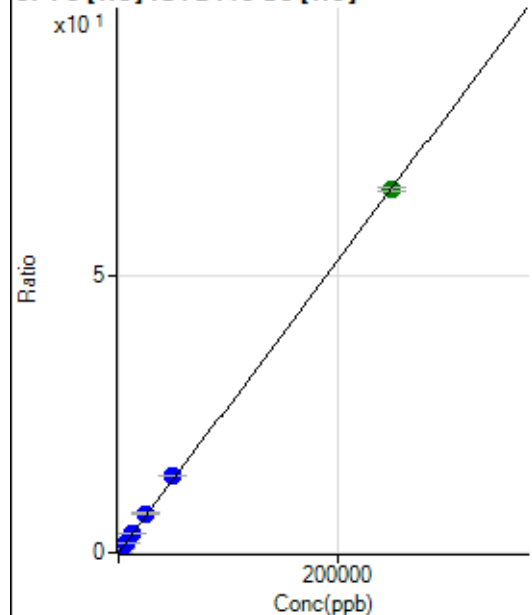
$$y = 0.0104 * x + 0.0390$$

$$R = 0.9999$$

$$DL = 0.4282$$

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	38.89	0.0008	P	37.8
2	☐	5.000					
3	☐	50.000	52.550	748.19	0.0146	P	10.2
4	☐	2500.000	2722.858	36154.94	0.7189	P	0.6
5	☐	6250.000	6824.116	87517.87	1.8005	P	5.1
6	☐	12500.000	13173.867	170252.24	3.4752	P	1.5
7	☐	25000.000	26844.283	330477.24	7.0806	P	2.6
8	☐	50000.000	52876.580	634988.00	13.9463	P	0.8
9	☐	250000.00	249189.98	3111408.03	65.7213	A	1.1

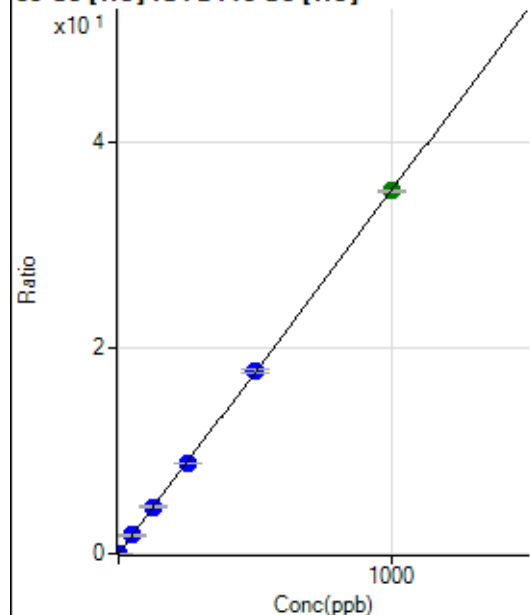
$$y = 2.6374E-004 * x + 7.6291E-004$$

$$R = 0.9999$$

$$DL = 3.28$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0038	P	17.8
2	☐	0.100					
3	☐	1.000	0.992	1991.29	0.0389	P	1.1
4	☐	50.000	50.363	89730.94	1.7845	P	2.2
5	☐	125.000	127.633	219552.17	4.5166	P	4.8
6	☐	250.000	247.399	428745.83	8.7512	P	0.8
7	☐	500.000	502.660	829821.06	17.7766	P	1.7
8	☐	1000.000	998.973	1608395.74	35.3249	A	0.7
9	☐			19172.31	0.4049	P	1.4

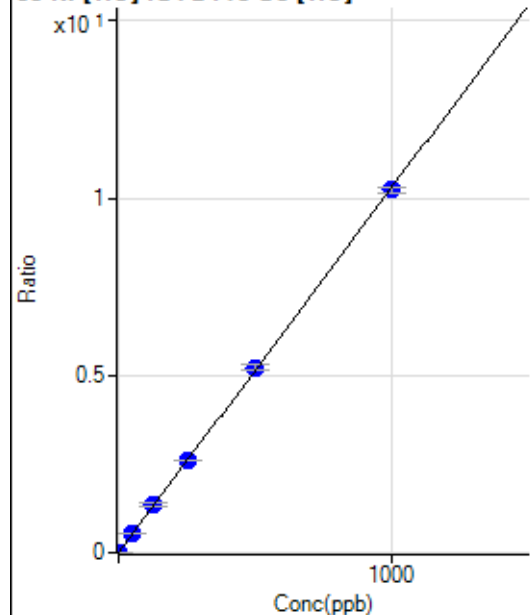
$$y = 0.0354 * x + 0.0038$$

$$R = 1.0000$$

$$DL = 0.05764$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0015	P	6.6
2	☐	0.100					
3	☐	1.000	1.026	617.80	0.0121	P	10.3
4	☐	50.000	50.887	26396.35	0.5248	P	0.1
5	☐	125.000	131.696	65903.98	1.3558	P	5.0
6	☐	250.000	251.471	126768.36	2.5875	P	0.3
7	☐	500.000	508.495	244121.91	5.2305	P	2.7
8	☐	1000.000	994.504	465687.22	10.2282	P	1.5
9	☐			13525.65	0.2857	P	2.0

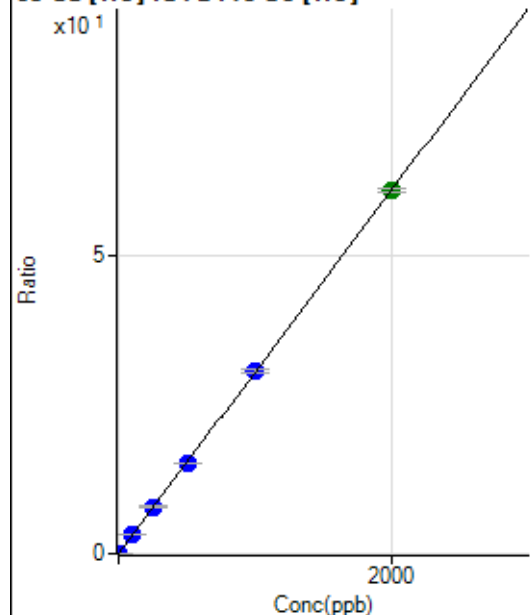
$$y = 0.0103 * x + 0.0015$$

$$R = 0.9999$$

$$DL = 0.02917$$

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	422.24	0.0083	P	6.1
2	☐	0.200					
3	☐	2.000	1.969	3491.61	0.0682	P	4.8
4	☐	100.000	101.539	155768.77	3.0978	P	2.1
5	☐	250.000	258.372	382624.06	7.8697	P	4.1
6	☐	500.000	497.590	742161.16	15.1483	P	0.4
7	☐	1000.000	1006.446	1429768.21	30.6310	P	2.2
8	☐	2000.000	1996.256	2765868.92	60.7475	A	1.1
9	☐			5896.91	0.1246	P	2.8

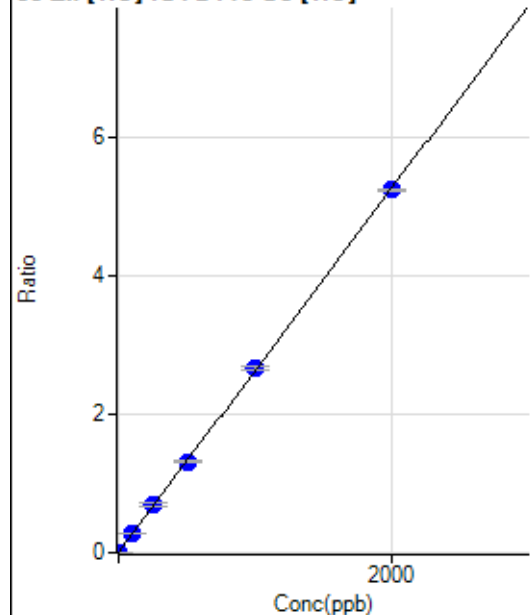
$$y = 0.0304 * x + 0.0083$$

$$R = 1.0000$$

$$DL = 0.04958$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	193.34	0.0038	P	12.1
2	☐	0.200					
3	☐	2.000	2.372	513.35	0.0100	P	5.2
4	☐	100.000	102.923	13794.82	0.2743	P	2.4
5	☐	250.000	262.052	33667.72	0.6926	P	5.0
6	☐	500.000	498.278	64356.32	1.3136	P	0.9
7	☐	1000.000	1013.103	124482.43	2.6669	P	2.3
8	☐	2000.000	1992.226	238617.37	5.2407	P	0.7
9	☐			1534.56	0.0324	P	3.1

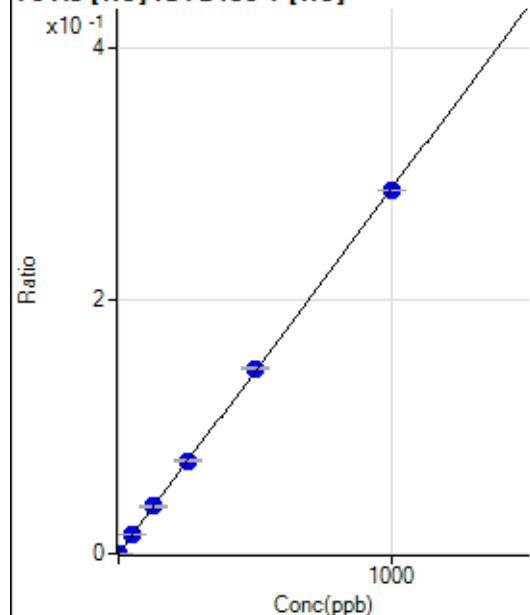
$$y = 0.0026 * x + 0.0038$$

$$R = 1.0000$$

$$DL = 0.5248$$

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	3.71	0.0000	P	86.6
2	☐	0.100					
3	☐	1.000	0.857	84.57	0.0003	P	13.7
4	☐	50.000	50.899	4778.03	0.0147	P	1.3
5	☐	125.000	129.760	11829.85	0.0375	P	3.9
6	☐	250.000	254.194	22875.15	0.0734	P	1.4
7	☐	500.000	507.865	44325.78	0.1465	P	0.5
8	☐	1000.000	994.379	85224.01	0.2869	P	0.1
9	☐			143.21	0.0005	P	7.3

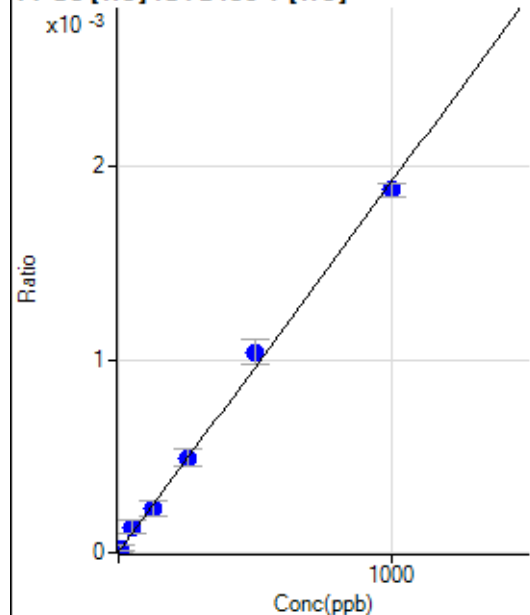
$$y = 2.8852E-004 * x + 1.1369E-005$$

$$R = 0.9999$$

$$DL = 0.1024$$

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	1.11	0.0000	P	173.2
2	☐	0.500					
3	☐	5.000	10.655	7.78	0.0000	P	99.4
4	☐	50.000	67.725	43.33	0.0001	P	55.3
5	☐	125.000	115.812	71.11	0.0002	P	35.0
6	☐	250.000	255.007	153.34	0.0005	P	17.6
7	☐	500.000	540.763	314.45	0.0010	P	11.8
8	☐	1000.000	978.601	557.80	0.0019	P	3.5
9	☐			3.33	0.0000	P	99.9

$$y = 1.9153E-006 * x + 3.4373E-006$$

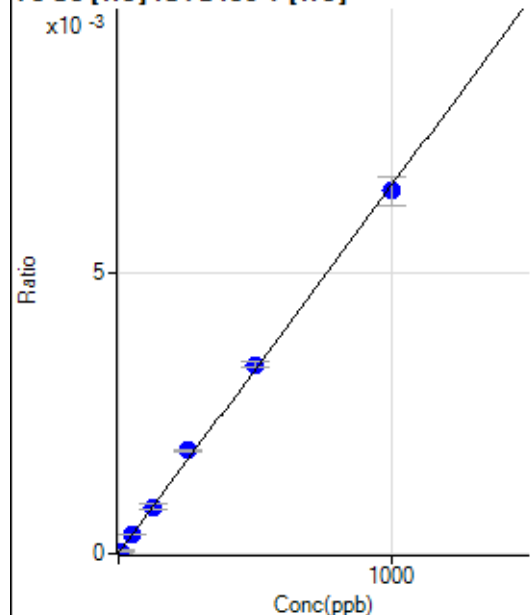
$$R = 0.9986$$

$$DL = 9.325$$

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	1.85	0.0000	P	100.4
2	☐	0.500					
3	☐	5.000	6.071	14.81	0.0000	P	37.6
4	☐	50.000	51.769	111.73	0.0003	P	3.7
5	☐	125.000	126.110	261.74	0.0008	P	10.4
6	☐	250.000	279.292	570.39	0.0018	P	2.9
7	☐	500.000	513.922	1016.72	0.0034	P	3.6
8	☐	1000.000	985.483	1912.50	0.0064	P	8.0
9	☐			1.85	0.0000	P	99.8

$$y = 6.5288\text{E-}006 * x + 5.7052\text{E-}006$$

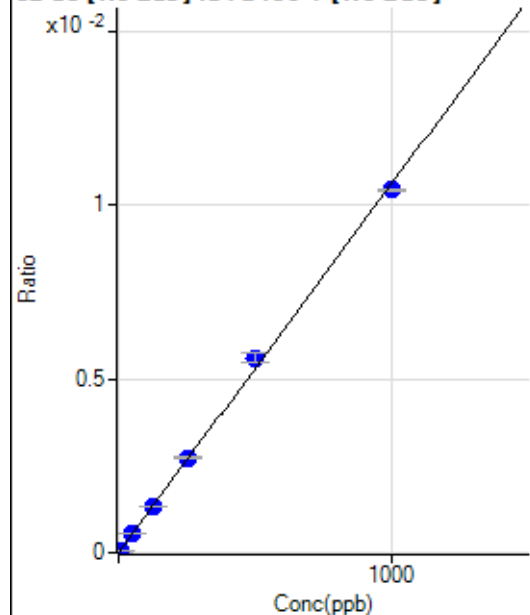
$$R = 0.9994$$

$$DL = 2.632$$

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	-38.61	0.0000	P	-142.
2	☐	0.500					
3	☐	5.000	5.245	532.12	0.0001	P	9.1
4	☐	50.000	51.723	5675.92	0.0005	P	0.5
5	☐	125.000	126.193	14001.76	0.0013	P	2.0
6	☐	250.000	257.159	27588.41	0.0027	P	1.5
7	☐	500.000	528.103	54900.27	0.0056	P	5.4
8	☐	1000.000	983.922	106507.89	0.0104	P	0.3
9	☐			66.79	0.0000	P	107.4

$$y = 1.0624\text{E-}005 * x - 3.6525\text{E-}006$$

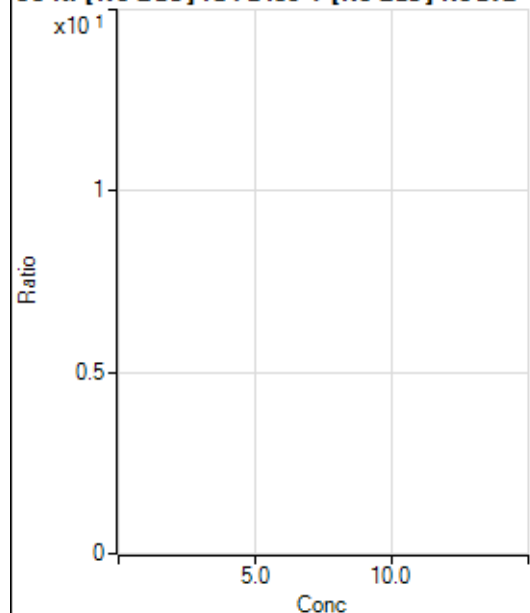
$$R = 0.9994$$

$$DL = 1.474$$

Weight: <None>

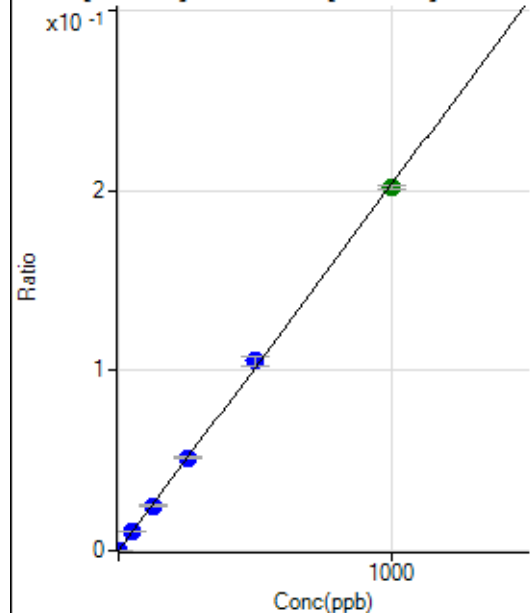
Min Conc: 0

83 Kr [No Gas] ISTD:89 Y [No Gas] No av_



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			404.46	0.0000	P	11.5
2	☐						
3	☐			400.01	0.0000	P	13.6
4	☐			382.23	0.0000	P	10.4
5	☐			392.24	0.0000	P	0.7
6	☐			388.90	0.0000	P	3.3
7	☐			405.57	0.0000	P	6.4
8	☐			396.68	0.0000	P	14.2
9	☐			390.01	0.0000	P	17.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	577.82	0.0001	P	6.8
2	☐	0.100					
3	☐	1.000	1.035	2711.50	0.0003	P	1.8
4	☐	50.000	50.091	106504.91	0.0102	P	0.9
5	☐	125.000	122.858	262267.22	0.0250	P	0.7
6	☐	250.000	252.991	520819.28	0.0515	P	1.8
7	☐	500.000	518.374	1032971.61	0.1055	P	5.1
8	☐	1000.000	990.328	2053496.51	0.2015	A	1.1
9	☐			10532.33	0.0011	P	2.9

$$y = 2.0339E-004 * x + 5.4949E-005$$

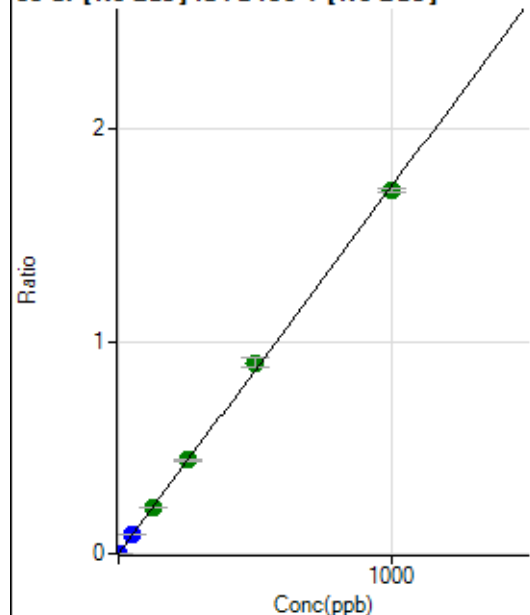
$$R = 0.9997$$

$$DL = 0.05529$$

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	261.13	0.0000	P	14.5
2	☐	0.100					
3	☐	1.000	1.039	18602.26	0.0018	P	3.3
4	☐	50.000	51.064	918864.70	0.0884	P	0.9
5	☐	125.000	125.823	2279793.45	0.2177	A	2.2
6	☐	250.000	255.095	4463068.42	0.4414	A	1.1
7	☐	500.000	520.600	8820544.47	0.9007	A	5.0
8	☐	1000.000	988.270	17426846.74	1.7099	A	1.2
9	☐			88634.67	0.0092	P	3.0

$$y = 0.0017 * x + 2.4846E-005$$

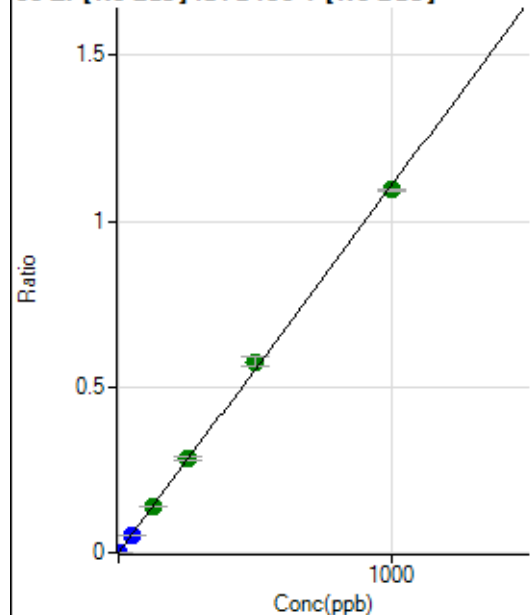
$$R = 0.9997$$

$$DL = 0.006245$$

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	819.51	0.0001	P	12.1
2	☐	0.100					
3	☐	1.000	0.954	11583.19	0.0011	P	1.0
4	☐	50.000	49.287	567906.72	0.0546	P	0.7
5	☐	125.000	125.858	1459215.48	0.1393	A	1.0
6	☐	250.000	255.378	2857354.64	0.2827	A	3.1
7	☐	500.000	520.379	5638914.45	0.5759	A	5.3
8	☐	1000.000	988.395	11147788.01	1.0937	A	0.5
9	☐			4962.24	0.0005	P	7.1

$$y = 0.0011 * x + 7.7947E-005$$

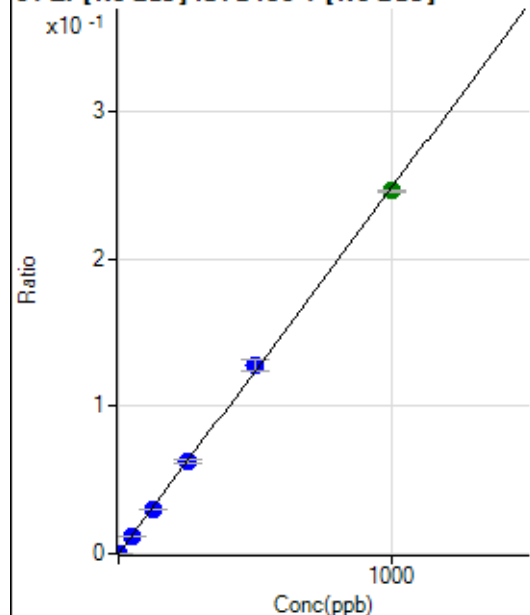
$$R = 0.9997$$

$$DL = 0.02549$$

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	127.79	0.0000	P	21.6
2	☐	0.100					
3	☐	1.000	0.912	2430.88	0.0002	P	5.2
4	☐	50.000	49.052	126629.59	0.0122	P	0.6
5	☐	125.000	122.658	318722.68	0.0304	P	0.2
6	☐	250.000	252.434	633096.28	0.0626	P	2.5
7	☐	500.000	515.766	1252497.08	0.1279	P	5.7
8	☐	1000.000	991.849	2507395.80	0.2460	A	0.5
9	☐			1119.55	0.0001	P	13.1

$$y = 2.4802E-004 * x + 1.2191E-005$$

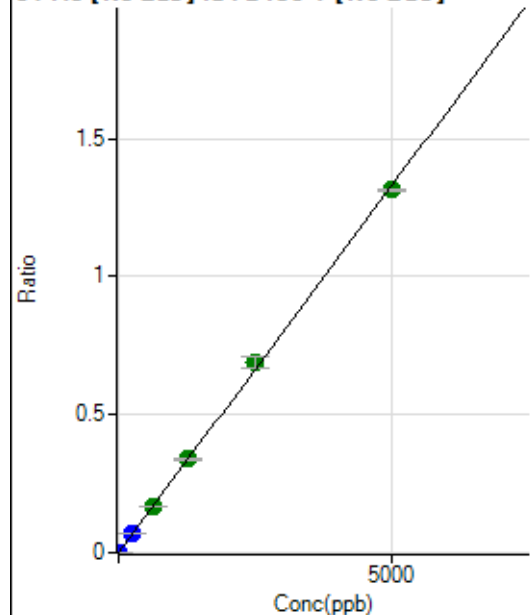
$$R = 0.9998$$

$$DL = 0.03184$$

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	433.36	0.0000	P	18.1
2	☐	0.500					
3	☐	5.000	4.661	13048.49	0.0013	P	5.6
4	☐	250.000	249.469	689356.01	0.0663	P	0.3
5	☐	625.000	626.171	1741934.02	0.1663	A	1.6
6	☐	1250.000	1275.546	3425719.87	0.3388	A	2.0
7	☐	2500.000	2591.988	6740328.36	0.6884	A	5.6
8	☐	5000.000	4947.500	13393288.15	1.3140	A	0.3
9	☐			18560.74	0.0019	P	8.0

$$y = 2.6559E-004 * x + 4.1324E-005$$

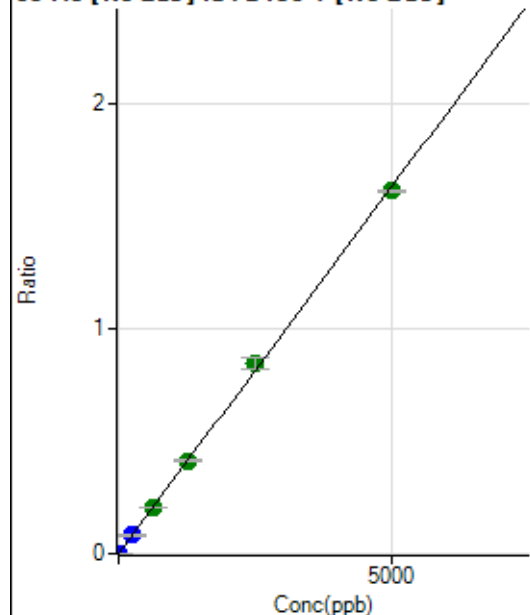
$$R = 0.9997$$

$$DL = 0.08465$$

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	144.46	0.0000	P	10.6
2	☐	0.500					
3	☐	5.000	5.000	16747.19	0.0016	P	4.5
4	☐	250.000	250.265	847252.21	0.0815	P	1.1
5	☐	625.000	622.435	2122105.75	0.2026	A	1.2
6	☐	1250.000	1269.724	4178942.93	0.4134	A	2.8
7	☐	2500.000	2595.255	8270055.04	0.8449	A	6.3
8	☐	5000.000	4947.749	16417033.70	1.6107	A	0.8
9	☐			28890.03	0.0030	P	8.0

$$y = 3.2554\text{E-}004 * x + 1.3730\text{E-}005$$

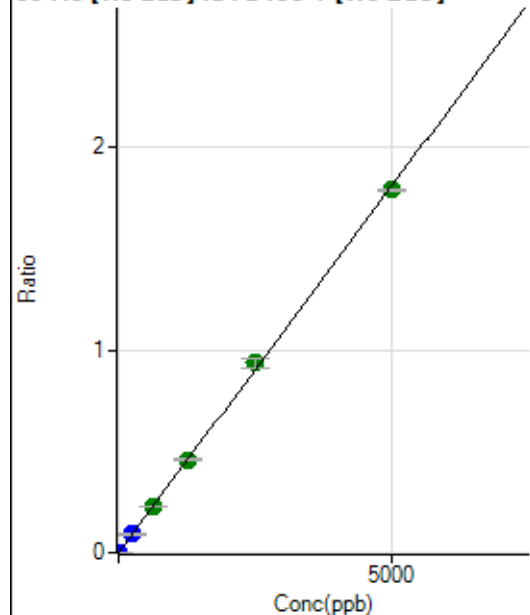
$$R = 0.9997$$

$$DL = 0.01343$$

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	244.46	0.0000	P	12.0
2	☐	0.500					
3	☐	5.000	4.965	18557.77	0.0018	P	5.5
4	☐	250.000	249.731	939402.88	0.0903	P	1.4
5	☐	625.000	623.460	2361882.97	0.2255	A	0.1
6	☐	1250.000	1268.566	4639135.65	0.4589	A	2.2
7	☐	2500.000	2586.566	9158930.85	0.9356	A	5.9
8	☐	5000.000	4952.282	18256592.94	1.7912	A	0.5
9	☐			32250.34	0.0034	P	7.1

$$y = 3.6169\text{E-}004 * x + 2.3280\text{E-}005$$

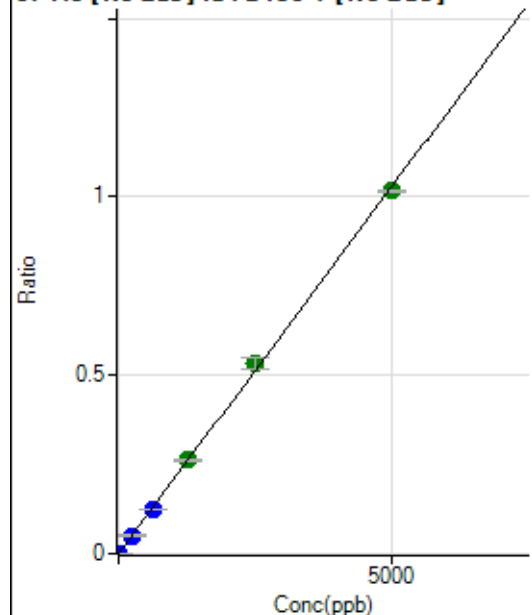
$$R = 0.9998$$

$$DL = 0.02319$$

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	127.78	0.0000	P	19.0
2	☐	0.500					
3	☐	5.000	5.038	10682.43	0.0010	P	6.2
4	☐	250.000	248.302	530623.58	0.0510	P	0.9
5	☐	625.000	609.967	1312632.57	0.1253	P	1.4
6	☐	1250.000	1276.686	2652649.15	0.2623	A	1.3
7	☐	2500.000	2594.393	5219373.17	0.5331	A	5.6
8	☐	5000.000	4948.096	10362854.83	1.0167	A	0.6
9	☐			18112.90	0.0019	P	9.2

$$y = 2.0548\text{E-}004 * x + 1.2130\text{E-}005$$

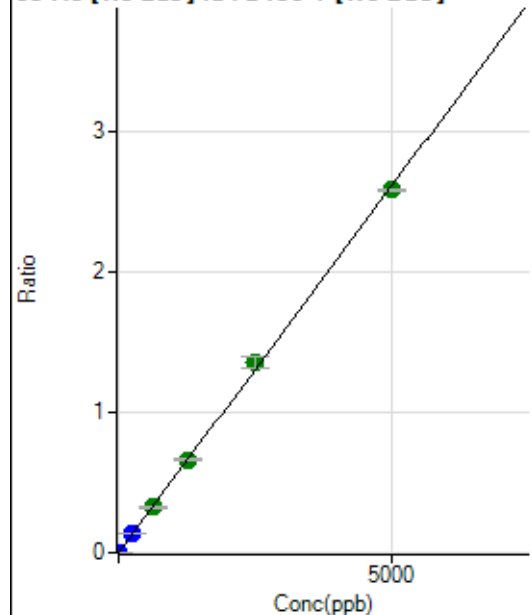
$$R = 0.9997$$

$$DL = 0.03362$$

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	236.12	0.0000	P	16.1
2	☐	0.500					
3	☐	5.000	4.878	26243.05	0.0026	P	3.2
4	☐	250.000	250.802	1362461.36	0.1310	P	1.0
5	☐	625.000	618.880	3385777.37	0.3233	A	1.1
6	☐	1250.000	1265.056	6681412.04	0.6609	A	2.2
7	☐	2500.000	2594.035	13267237.62	1.3551	A	5.6
8	☐	5000.000	4949.943	26355097.81	2.5858	A	0.7
9	☐			45928.79	0.0048	P	6.3

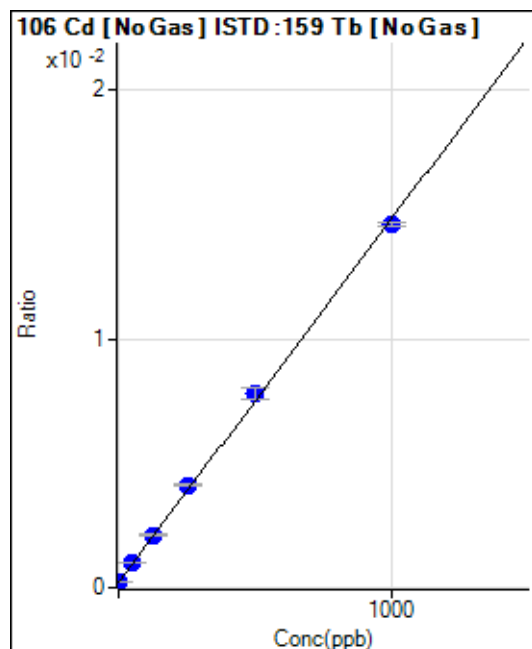
$$y = 5.2238\text{E-}004 * x + 2.2449\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.02076$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2494.81	0.0002	P	4.9
2	☐	0.100					
3	☐	1.000	1.372	2633.71	0.0002	P	5.9
4	☐	50.000	54.698	11850.15	0.0010	P	6.1
5	☐	125.000	129.990	25291.26	0.0021	P	2.2
6	☐	250.000	268.683	48072.81	0.0041	P	3.6
7	☐	500.000	521.137	90701.31	0.0078	P	6.2
8	☐	1000.000	983.902	178536.73	0.0146	P	1.2
9	☐			2417.00	0.0002	P	5.1

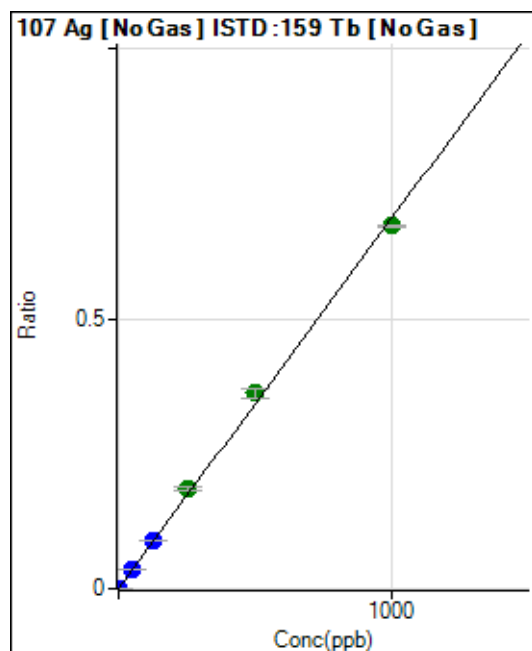
$$y = 1.4608\text{E-}005 * x + 2.0832\text{E-}004$$

$$R = 0.9995$$

$$DL = 2.076$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.12	0.0000	P	22.1
2	☐	0.100					
3	☐	1.000	1.084	8605.93	0.0007	P	7.5
4	☐	50.000	54.321	437830.99	0.0372	P	0.2
5	☐	125.000	131.600	1081880.24	0.0901	P	0.4
6	☐	250.000	269.745	2149340.48	0.1848	A	2.3
7	☐	500.000	527.497	4191462.81	0.3613	A	5.0
8	☐	1000.000	980.274	8221108.26	0.6714	A	0.7
9	☐			1830.76	0.0002	P	7.5

$$y = 6.8494\text{E-}004 * x + 7.1724\text{E-}006$$

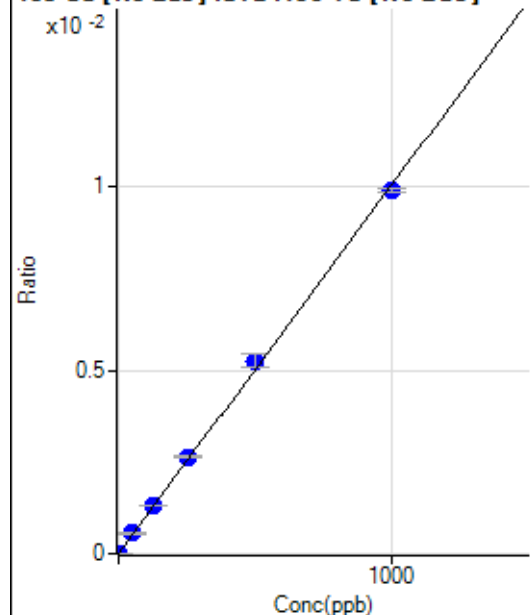
$$R = 0.9992$$

$$DL = 0.006929$$

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	23.61	0.0000	P	18.0
2	☐	0.100					
3	☐	1.000	0.986	136.12	0.0000	P	21.5
4	☐	50.000	54.724	6493.38	0.0006	P	3.1
5	☐	125.000	129.592	15655.18	0.0013	P	1.1
6	☐	250.000	261.960	30650.42	0.0026	P	2.5
7	☐	500.000	522.846	60948.41	0.0053	P	6.7
8	☐	1000.000	984.776	121205.05	0.0099	P	1.1
9	☐			58.34	0.0000	P	35.0

$$y = 1.0050\text{E-}005 * x + 1.9676\text{E-}006$$

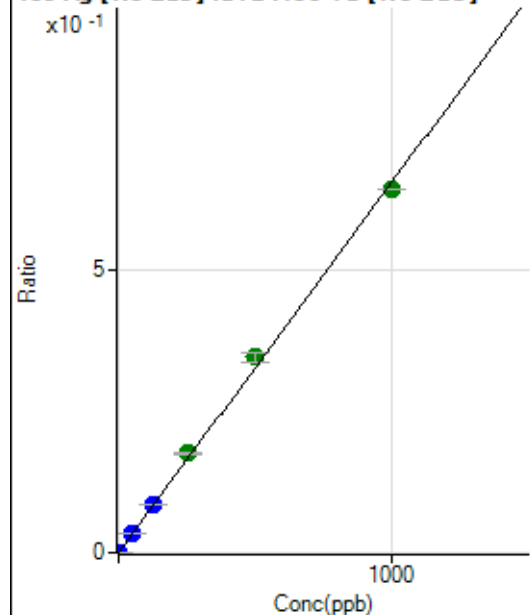
$$R = 0.9995$$

$$DL = 0.1057$$

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	38.89	0.0000	P	46.4
2	☐	0.100					
3	☐	1.000	1.078	8150.05	0.0007	P	4.1
4	☐	50.000	54.006	416109.46	0.0354	P	0.8
5	☐	125.000	130.785	1027870.44	0.0856	P	0.6
6	☐	250.000	267.946	2041044.16	0.1755	A	2.4
7	☐	500.000	527.737	4008558.33	0.3456	A	5.4
8	☐	1000.000	980.721	7863376.39	0.6422	A	0.1
9	☐			1602.96	0.0001	P	25.7

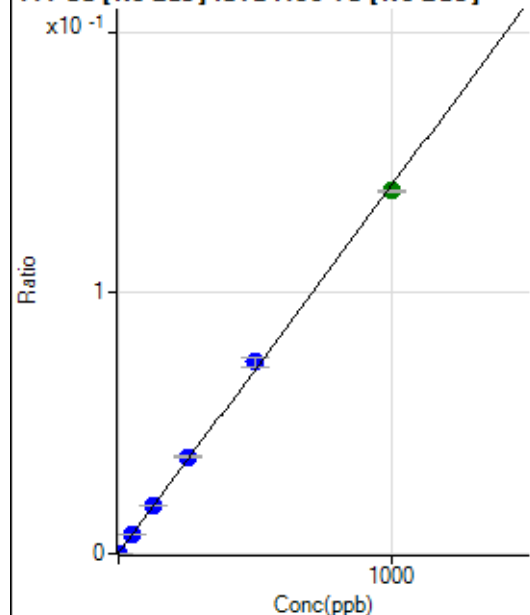
$$y = 6.5483\text{E-}004 * x + 3.2695\text{E-}006$$

$$R = 0.9992$$

$$DL = 0.006951$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1736.79	0.0001	P	4.8
2	☐	0.100					
3	☐	1.000	1.049	3372.07	0.0003	P	1.4
4	☐	50.000	53.072	89768.19	0.0076	P	1.1
5	☐	125.000	128.999	220079.68	0.0183	P	1.0
6	☐	250.000	262.233	431843.06	0.0371	P	2.9
7	☐	500.000	521.088	854135.42	0.0736	P	5.3
8	☐	1000.000	985.744	1703967.42	0.1392	A	0.2
9	☐			2184.42	0.0002	P	4.9

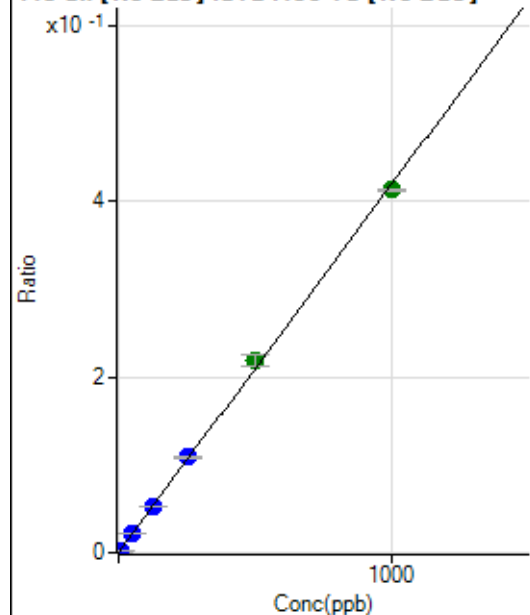
$$y = 1.4103\text{E-}004 * x + 1.4502\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.147$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1808.54	0.0002	P	9.5
2	☐	0.500					
3	☐	5.000	5.474	28046.92	0.0024	P	6.0
4	☐	50.000	51.752	256600.38	0.0218	P	1.4
5	☐	125.000	126.719	638304.38	0.0532	P	0.3
6	☐	250.000	259.391	1264631.12	0.1087	P	2.1
7	☐	500.000	524.437	2547150.95	0.2196	A	5.9
8	☐	1000.000	985.129	5049988.48	0.4124	A	0.7
9	☐			14060.89	0.0012	P	2.2

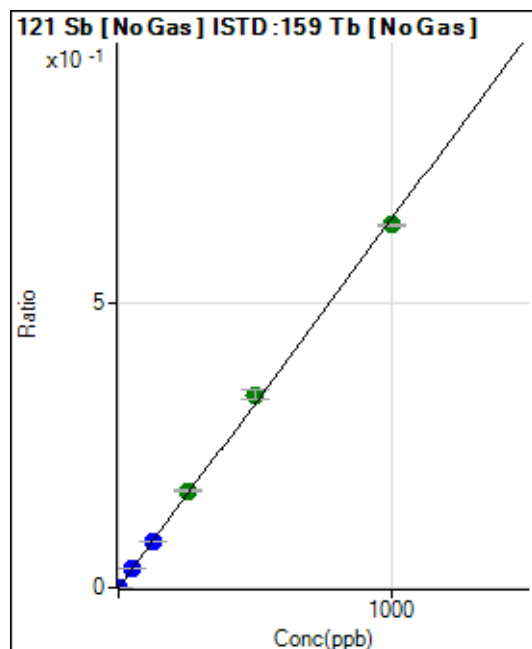
$$y = 4.1852\text{E-}004 * x + 1.5132\text{E-}004$$

$$R = 0.9995$$

$$DL = 0.1025$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.34	0.0000	P	53.2
2	☐	0.200					
3	☐	2.000	2.036	15262.12	0.0013	P	4.2
4	☐	50.000	51.121	389590.53	0.0331	P	1.1
5	☐	125.000	126.946	986736.86	0.0822	P	0.9
6	☐	250.000	263.311	1983661.13	0.1705	A	2.3
7	☐	500.000	524.113	3936620.01	0.3394	A	5.7
8	☐	1000.000	984.316	7804830.12	0.6374	A	0.9
9	☐			21103.73	0.0018	P	9.6

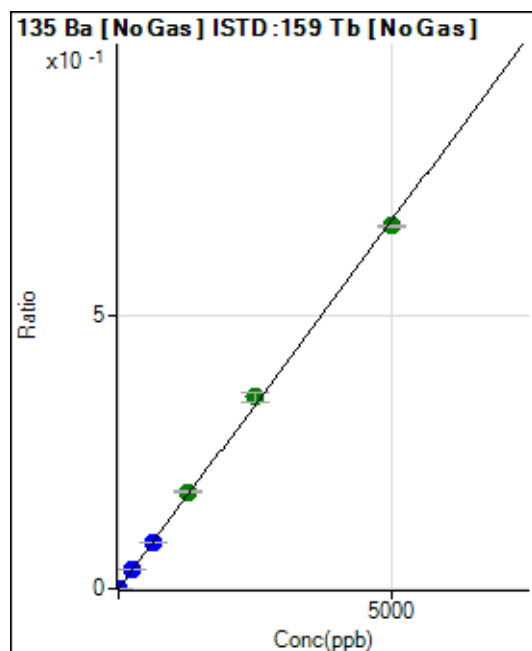
$$y = 6.4759\text{E-}004 * x + 8.9900\text{E-}006$$

$$R = 0.9995$$

$$DL = 0.02216$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	52.3
2	☐	1.000					
3	☐	10.000	9.888	15381.79	0.0013	P	4.3
4	☐	250.000	259.287	410800.62	0.0349	P	0.8
5	☐	625.000	635.603	1027095.99	0.0856	P	0.8
6	☐	1250.000	1315.821	2060705.08	0.1772	A	2.6
7	☐	2500.000	2602.574	4064334.55	0.3504	A	5.5
8	☐	5000.000	4930.469	8127849.84	0.6638	A	0.2
9	☐			2050.25	0.0002	P	11.4

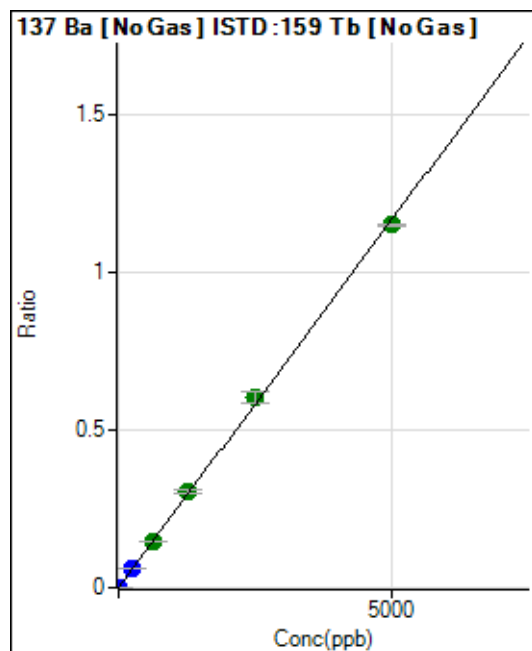
$$y = 1.3463\text{E-}004 * x + 7.1548\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.08345$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.68	0.0000	P	25.2
2	☐	1.000					
3	☐	10.000	10.163	27317.97	0.0024	P	5.1
4	☐	250.000	262.613	720052.57	0.0612	P	0.6
5	☐	625.000	638.195	1784846.00	0.1487	A	0.7
6	☐	1250.000	1309.024	3547881.76	0.3050	A	2.9
7	☐	2500.000	2596.278	7015405.02	0.6050	A	6.2
8	☐	5000.000	4934.825	14079310.21	1.1499	A	0.6
9	☐			3481.19	0.0003	P	5.6

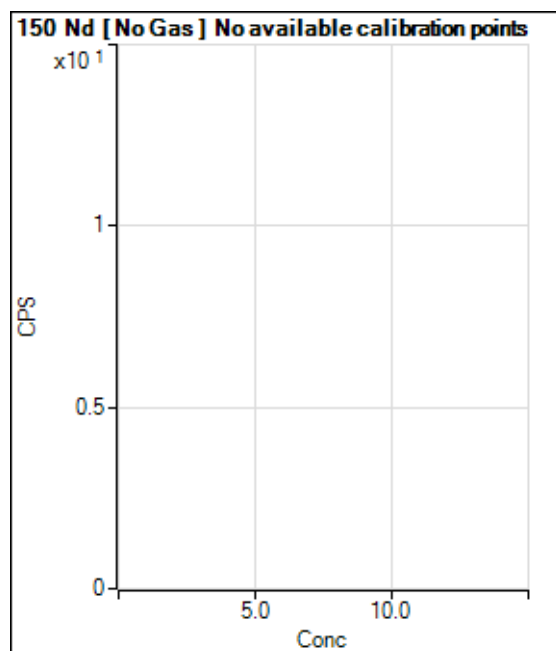
$$y = 2.3301E-004 * x + 9.7357E-006$$

$$R = 0.9996$$

$$DL = 0.03156$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	49.5
2	☐						
3	☐			11.11		P	34.6
4	☐			15.56		P	65.5
5	☐			44.45		P	34.6
6	☐			66.67		P	0.0
7	☐			153.34		P	4.3
8	☐			260.01		P	2.6
9	☐			122.23		P	30.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐						
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			1.11		P	173.2
6	☐			1.11		P	173.2
7	☐			3.33		P	173.2
8	☐			5.56		P	91.6
9	☐			11.11		P	62.5

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	48.0
2	☐						
3	☐			50.00		P	44.1
4	☐			50.00		P	44.1
5	☐			55.56		P	17.3
6	☐			80.56		P	26.0
7	☐			75.00		P	11.1
8	☐			125.01		P	24.0
9	☐			108.34		P	26.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐						
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			6.67		P	50.0
6	☐			3.33		P	100.1
7	☐			7.78		P	24.7
8	☐			5.55		P	69.3
9	☐			16.67		P	40.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			119.45		P	4.0
2	☐						
3	☐			100.01		P	60.1
4	☐			133.34		P	38.0
5	☐			72.23		P	17.6
6	☐			116.67		P	28.6
7	☐			138.90		P	12.5
8	☐			133.34		P	38.0
9	☐			133.34		P	38.0

160 Gd [He] No available calibration points

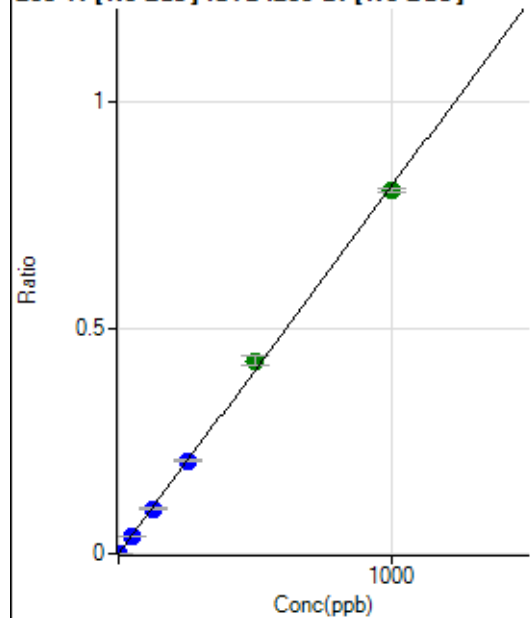
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	0.0
2	☐						
3	☐			14.44		P	13.4
4	☐			11.11		P	45.8
5	☐			10.00		P	57.8
6	☐			13.34		P	43.3
7	☐			7.78		P	107.8
8	☐			14.44		P	53.3
9	☐			26.67		P	33.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	52.9
2	☐						
3	☐			52.78		P	32.9
4	☐			27.78		P	17.3
5	☐			41.67		P	34.7
6	☐			55.56		P	8.7
7	☐			72.23		P	37.1
8	☐			55.56		P	22.9
9	☐			47.23		P	27.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐						
3	☐			15.56		P	32.7
4	☐			6.67		P	50.0
5	☐			5.56		P	91.6
6	☐			8.89		P	43.3
7	☐			4.45		P	86.6
8	☐			10.00		P	33.3
9	☐			14.45		P	26.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	241.68	0.0000	P	9.8
2	☐	0.100					
3	☐	1.000	0.996	5973.91	0.0008	P	7.3
4	☐	50.000	48.955	286567.43	0.0399	P	1.0
5	☐	125.000	122.461	728543.95	0.0997	P	1.1
6	☐	250.000	252.642	1449193.61	0.2057	P	3.0
7	☐	500.000	524.301	2964678.41	0.4268	A	4.9
8	☐	1000.000	987.559	5914664.93	0.8039	A	1.1
9	☐			3575.68	0.0005	P	12.3

$$y = 8.1399\text{E-}004 * x + 3.3260\text{E-}005$$

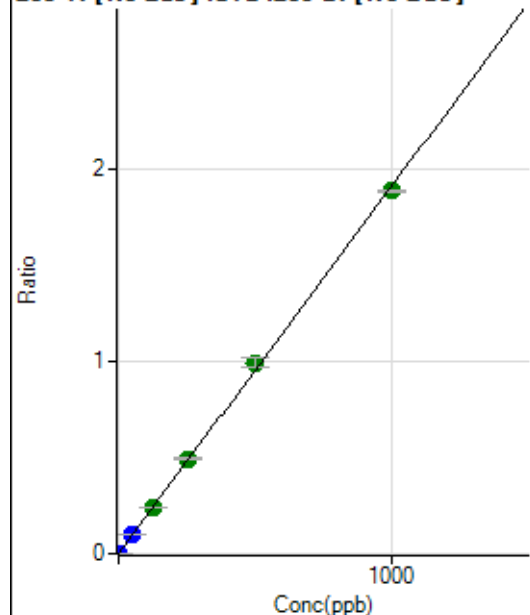
$$R = 0.9995$$

$$DL = 0.01198$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	691.72	0.0001	P	21.9
2	☐	0.100					
3	☐	1.000	0.954	13596.73	0.0019	P	5.8
4	☐	50.000	50.411	693780.48	0.0966	P	1.3
5	☐	125.000	124.567	1742105.40	0.2384	A	1.7
6	☐	250.000	258.253	3482653.98	0.4943	A	2.7
7	☐	500.000	519.585	6906538.78	0.9943	A	4.9
8	☐	1000.000	988.178	13913053.78	1.8909	A	0.5
9	☐			8881.29	0.0013	P	7.8

$$y = 0.0019 * x + 9.5193E-005$$

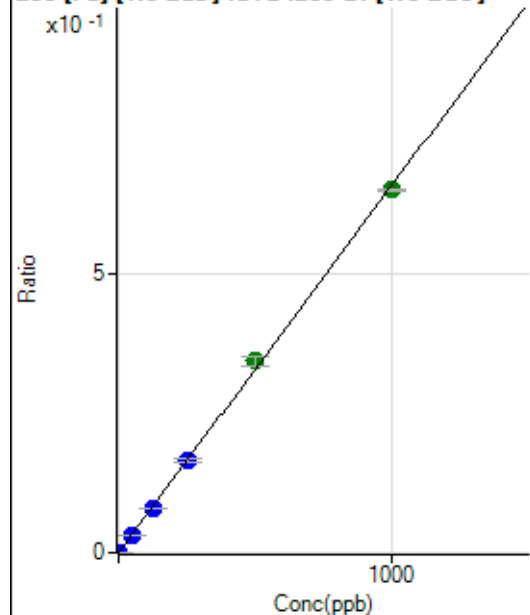
$$R = 0.9997$$

$$DL = 0.03262$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0000	P	17.4
2	☐	0.100					
3	☐	1.000	0.935	4671.37	0.0007	P	3.4
4	☐	50.000	49.340	233884.28	0.0325	P	0.6
5	☐	125.000	121.427	584806.59	0.0800	P	1.5
6	☐	250.000	251.171	1166280.38	0.1655	P	2.9
7	☐	500.000	522.624	2392089.98	0.3444	A	4.7
8	☐	1000.000	988.875	4794157.57	0.6515	A	0.5
9	☐			28298.67	0.0043	P	5.9

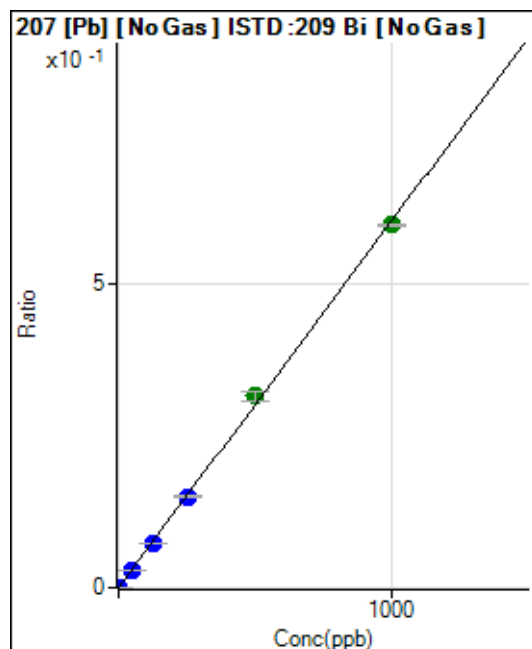
$$y = 6.5883E-004 * x + 4.3488E-005$$

$$R = 0.9996$$

$$DL = 0.03448$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	240.75	0.0000	P	9.5
2	☐	0.100					
3	☐	1.000	0.977	4417.58	0.0006	P	3.8
4	☐	50.000	48.861	212293.68	0.0295	P	0.6
5	☐	125.000	119.864	529200.30	0.0724	P	1.0
6	☐	250.000	248.613	1058273.53	0.1502	P	2.9
7	☐	500.000	522.250	2191085.45	0.3155	A	5.2
8	☐	1000.000	989.921	4399449.55	0.5979	A	0.8
9	☐			24292.28	0.0037	P	4.1

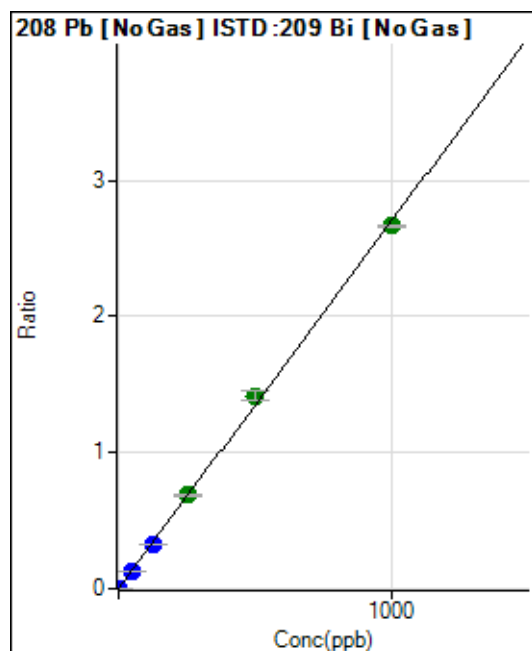
$$y = 6.0400\text{E-}004 * x + 3.3157\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.01569$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1068.57	0.0001	P	6.2
2	☐	0.100					
3	☐	1.000	0.960	19408.27	0.0027	P	2.3
4	☐	50.000	49.154	954528.89	0.1328	P	0.4
5	☐	125.000	121.093	2389495.75	0.3270	P	1.3
6	☐	250.000	254.942	4850580.53	0.6884	A	2.7
7	☐	500.000	524.446	9834833.25	1.4159	A	5.0
8	☐	1000.000	987.072	19607428.30	2.6648	A	0.4
9	☐			112162.19	0.0169	P	4.5

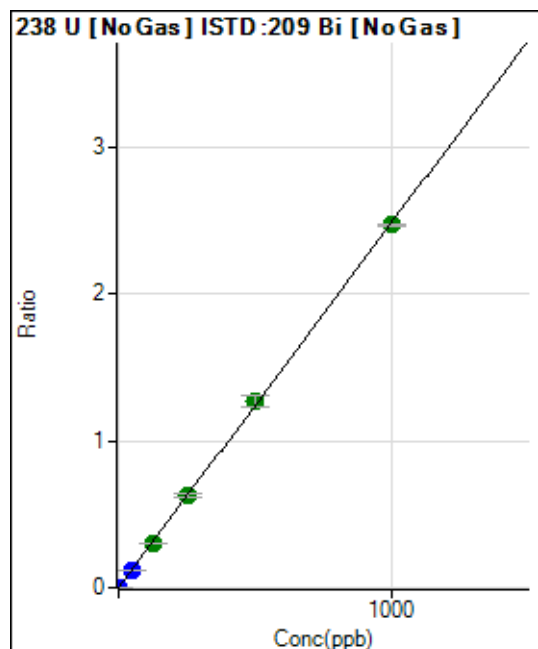
$$y = 0.0027 * x + 1.4708\text{E-}004$$

$$R = 0.9995$$

$$DL = 0.01007$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	70.0
2	☐	0.100					
3	☐	1.000	0.991	17468.59	0.0025	P	3.1
4	☐	50.000	48.381	864025.14	0.1202	P	0.5
5	☐	125.000	123.119	2235828.07	0.3060	A	0.1
6	☐	250.000	252.017	4413083.04	0.6264	A	3.1
7	☐	500.000	511.012	8820911.74	1.2700	A	5.3
8	☐	1000.000	994.306	18183319.33	2.4712	A	0.3
9	☐			3222.81	0.0005	P	7.7

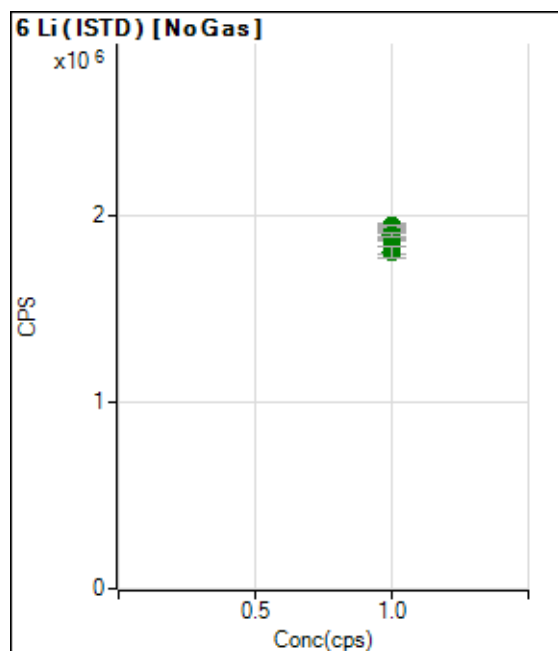
$$y = 0.0025 * x + 3.8351E-006$$

$$R = 0.9999$$

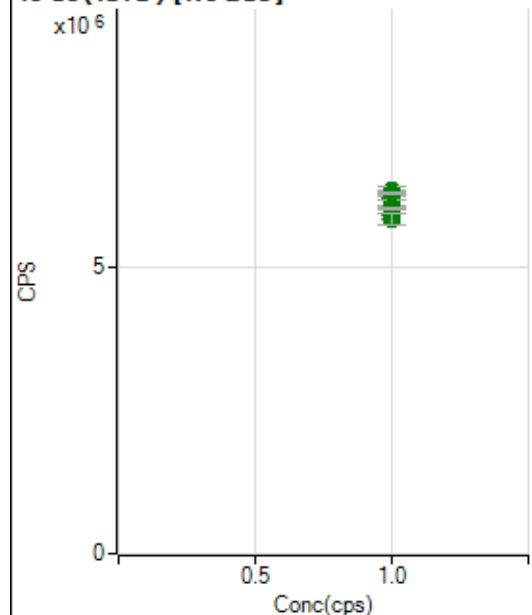
$$DL = 0.003243$$

Weight: <None>

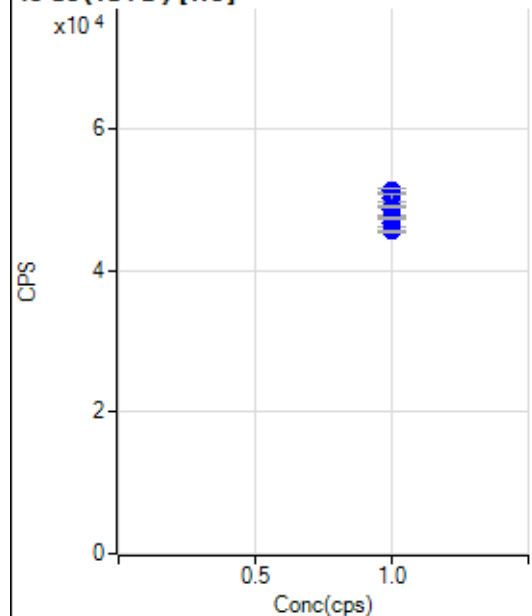
Min Conc: 0



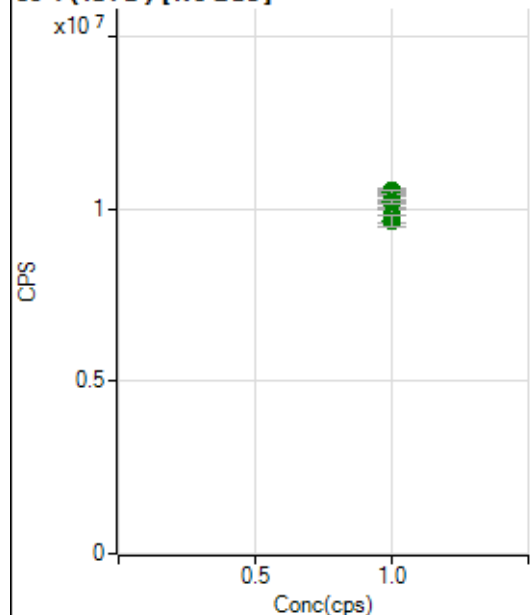
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1939460.32		A	2.4
2	☐	1.000					
3	☐	1.000		1901526.55		A	3.4
4	☐	1.000		1922483.18		A	0.0
5	☐	1.000		1947924.99		A	0.4
6	☐	1.000		1892825.25		A	2.0
7	☐	1.000		1833263.78		A	4.6
8	☐	1.000		1896453.98		A	1.0
9	☐	1.000		1806739.09		A	3.4

45 Sc (ISTD) [No Gas]

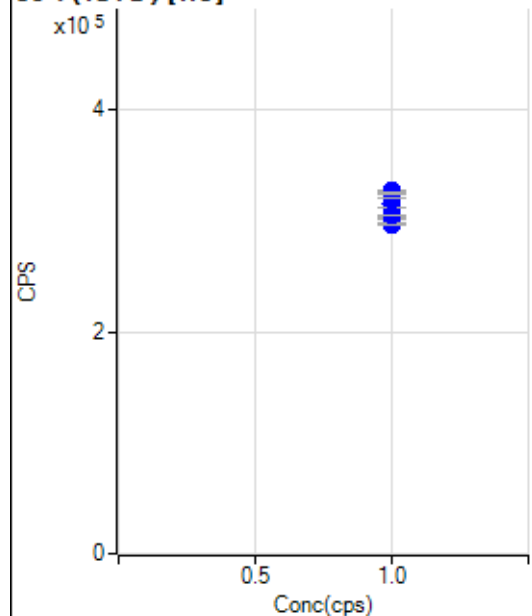
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6314436.56		A	2.2
2	☐	1.000					
3	☐	1.000		6185640.55		A	4.7
4	☐	1.000		6261284.73		A	0.7
5	☐	1.000		6271767.29		A	0.8
6	☐	1.000		6070723.66		A	2.7
7	☐	1.000		5881105.34		A	5.8
8	☐	1.000		6017846.18		A	0.4
9	☐	1.000		5829151.21		A	3.4

45 Sc (ISTD) [He]

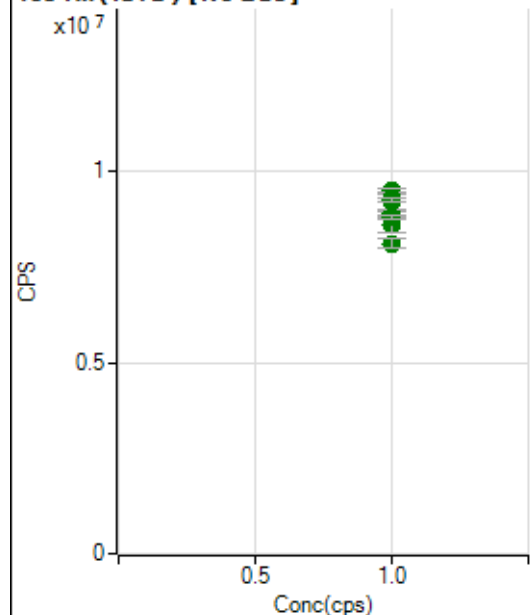
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		50976.68		P	0.1
2	☐	1.000					
3	☐	1.000		51213.08		P	1.3
4	☐	1.000		50297.62		P	2.0
5	☐	1.000		48676.75		P	4.3
6	☐	1.000		48994.19		P	0.7
7	☐	1.000		46694.15		P	2.5
8	☐	1.000		45532.53		P	0.7
9	☐	1.000		47345.18		P	0.9

89 Y (ISTD) [No Gas]

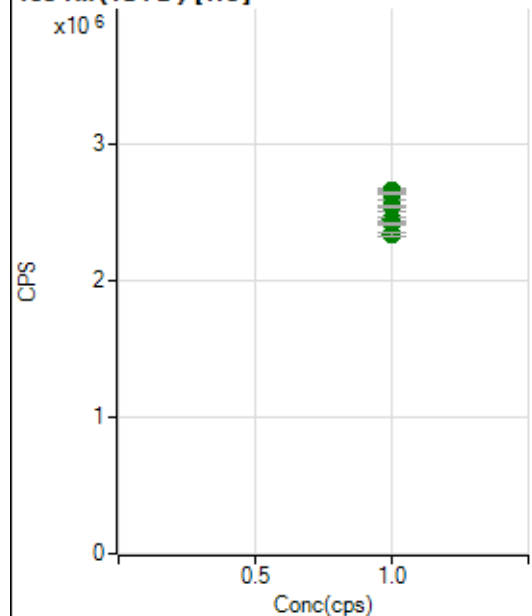
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10510723.59		A	1.9
2	☐	1.000					
3	☐	1.000		10217261.17		A	4.8
4	☐	1.000		10398081.31		A	0.8
5	☐	1.000		10472812.90		A	0.9
6	☐	1.000		10113070.82		A	2.0
7	☐	1.000		9808891.45		A	5.0
8	☐	1.000		10192374.57		A	0.6
9	☐	1.000		9640125.07		A	3.4

89 Y (ISTD) [He]

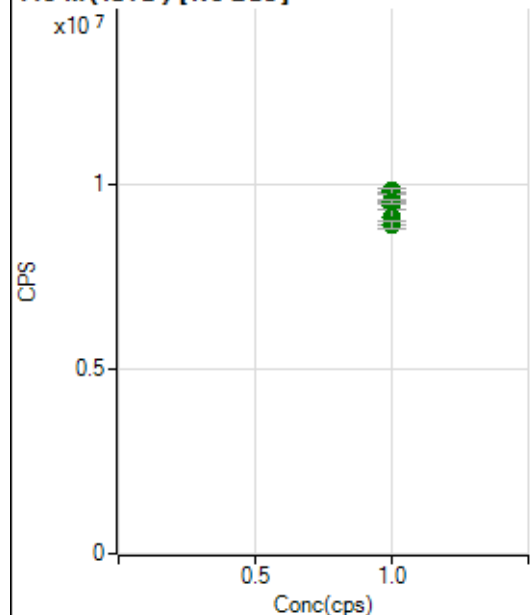
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		326373.40		P	1.0
2	☐	1.000					
3	☐	1.000		326909.88		P	0.4
4	☐	1.000		325106.85		P	0.3
5	☐	1.000		316094.12		P	2.7
6	☐	1.000		311851.34		P	0.3
7	☐	1.000		302479.81		P	0.7
8	☐	1.000		297039.24		P	0.4
9	☐	1.000		305168.83		P	0.3

103 Rh (ISTD) [No Gas]

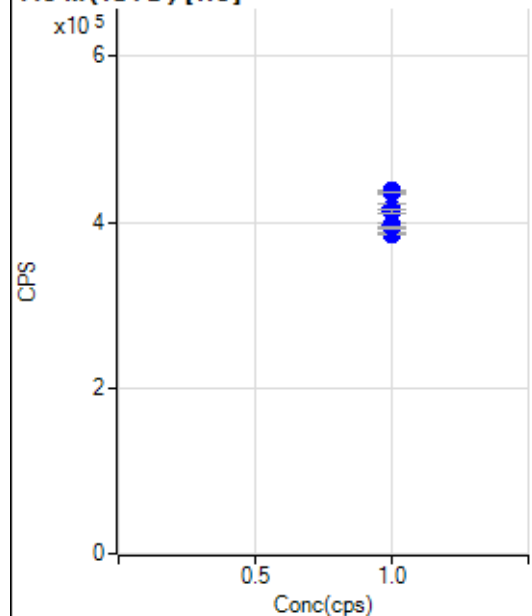
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9496578.25		A	1.5
2	☐	1.000					
3	☐	1.000		9202694.74		A	5.2
4	☐	1.000		9312491.61		A	0.1
5	☐	1.000		9245724.60		A	1.0
6	☐	1.000		8934023.03		A	1.9
7	☐	1.000		8608382.40		A	4.7
8	☐	1.000		8813268.08		A	0.7
9	☐	1.000		8120948.10		A	3.4

103 Rh (ISTD) [He]

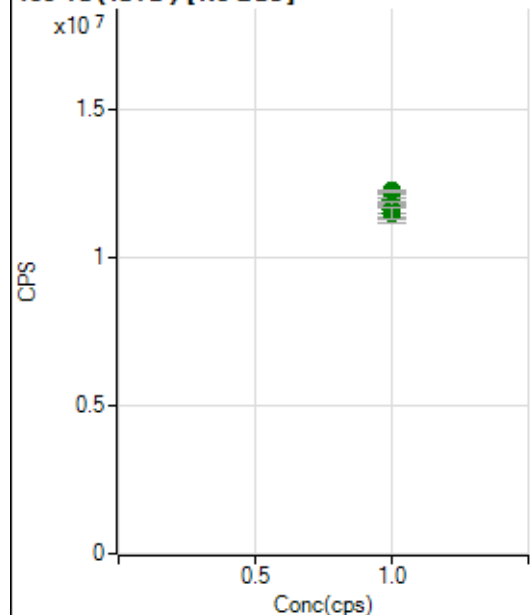
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2651577.25		A	1.1
2	☐	1.000					
3	☐	1.000		2642799.84		A	0.8
4	☐	1.000		2634832.88		A	0.2
5	☐	1.000		2544704.09		A	2.9
6	☐	1.000		2536892.44		A	0.0
7	☐	1.000		2449225.24		A	1.2
8	☐	1.000		2410776.98		A	0.1
9	☐	1.000		2334825.02		A	1.1

115 In (ISTD) [No Gas]

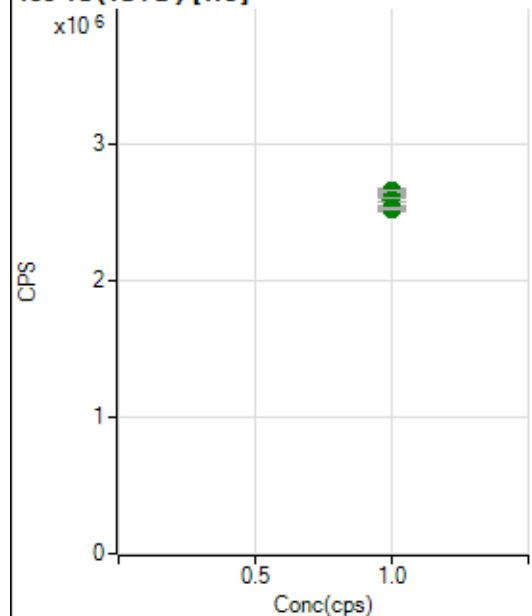
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9808913.78		A	1.5
2	☐	1.000					
3	☐	1.000		9546851.47		A	5.0
4	☐	1.000		9714810.17		A	0.2
5	☐	1.000		9786878.13		A	1.7
6	☐	1.000		9396497.40		A	2.2
7	☐	1.000		9087506.18		A	4.6
8	☐	1.000		9505573.93		A	0.8
9	☐	1.000		8889435.83		A	2.6

115 In (ISTD) [He]

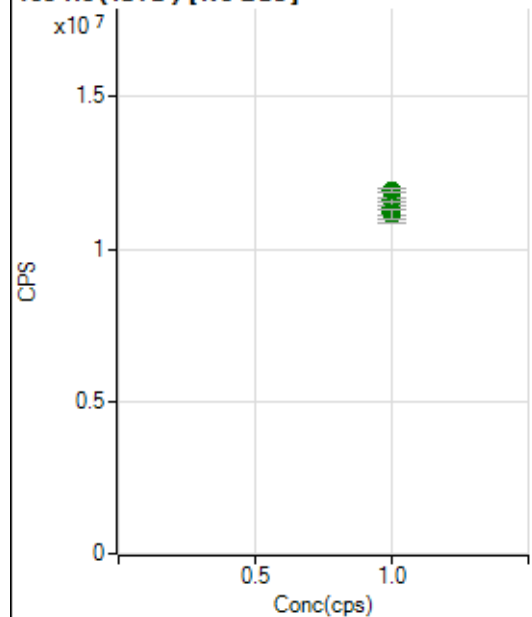
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		435536.86		P	0.6
2	☐	1.000					
3	☐	1.000		437691.28		P	0.2
4	☐	1.000		435950.12		P	0.2
5	☐	1.000		417104.29		P	2.8
6	☐	1.000		412979.34		P	0.7
7	☐	1.000		397284.97		P	1.0
8	☐	1.000		386177.49		P	0.5
9	☐	1.000		393521.27		P	0.4

159 Tb (ISTD) [No Gas]

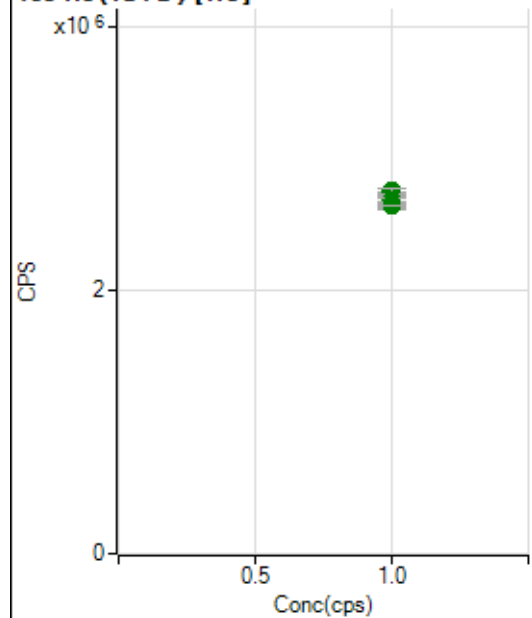
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11967314.96		A	2.3
2	☐	1.000					
3	☐	1.000		11511252.47		A	5.9
4	☐	1.000		11765450.94		A	0.5
5	☐	1.000		12001637.04		A	0.3
6	☐	1.000		11637753.44		A	2.9
7	☐	1.000		11619882.33		A	4.9
8	☐	1.000		12244311.07		A	0.4
9	☐	1.000		11474515.94		A	3.6

159 Tb (ISTD) [He]

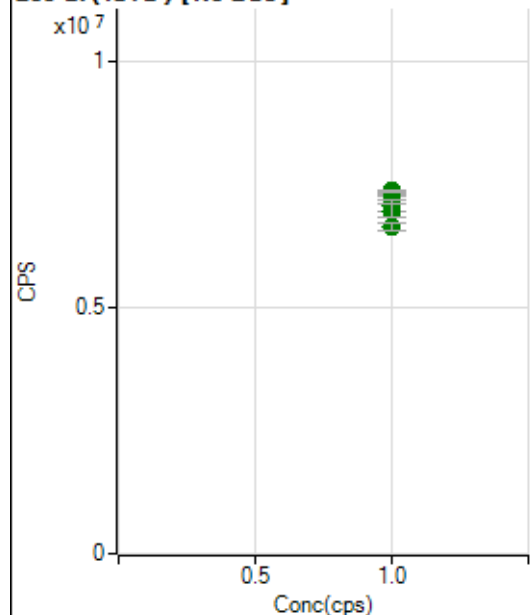
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2651398.31		A	1.3
2	☐	1.000					
3	☐	1.000		2650207.10		A	1.2
4	☐	1.000		2645821.26		A	0.5
5	☐	1.000		2575439.79		A	2.7
6	☐	1.000		2588367.39		A	1.0
7	☐	1.000		2522222.17		A	1.1
8	☐	1.000		2522769.49		A	0.8
9	☐	1.000		2524501.77		A	0.6

165 Ho (ISTD) [No Gas]

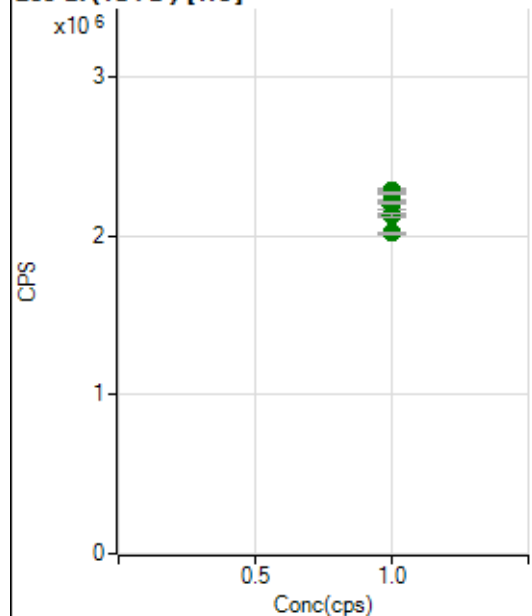
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11402620.57		A	2.2
2	☐	1.000					
3	☐	1.000		11124666.57		A	5.3
4	☐	1.000		11355523.87		A	1.4
5	☐	1.000		11613458.85		A	1.0
6	☐	1.000		11282593.48		A	2.9
7	☐	1.000		11259144.52		A	5.1
8	☐	1.000		11912291.85		A	1.1
9	☐	1.000		11149354.24		A	3.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2754635.90		A	1.5
2	☐	1.000					
3	☐	1.000		2741895.03		A	0.6
4	☐	1.000		2751812.87		A	1.4
5	☐	1.000		2666398.59		A	3.8
6	☐	1.000		2680881.17		A	1.0
7	☐	1.000		2636763.71		A	0.2
8	☐	1.000		2650042.82		A	0.3
9	☐	1.000		2648276.14		A	0.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7271143.92		A	2.9
2	☐	1.000					
3	☐	1.000		7089898.72		A	4.3
4	☐	1.000		7185403.29		A	0.1
5	☐	1.000		7306649.55		A	0.8
6	☐	1.000		7050378.37		A	3.2
7	☐	1.000		6955657.67		A	4.3
8	☐	1.000		7357942.60		A	0.9
9	☐	1.000		6635288.37		A	2.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2283018.27		A	1.1
2	☐	1.000					
3	☐	1.000		2284836.65		A	0.4
4	☐	1.000		2269481.34		A	0.7
5	☐	1.000		2197739.10		A	2.8
6	☐	1.000		2208971.01		A	0.3
7	☐	1.000		2147948.91		A	1.4
8	☐	1.000		2129684.88		A	0.8
9	☐	1.000		2017334.43		A	0.9

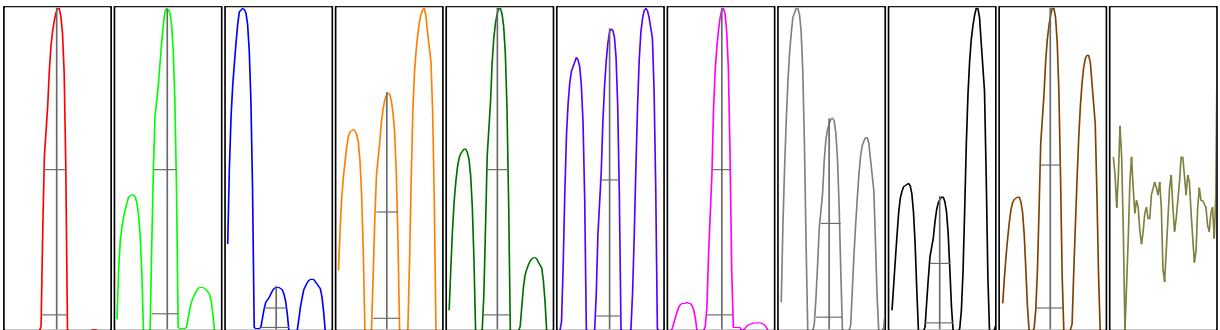
US EPA Tune Check Sample Report

Batch Folder D:\P8070518 MS.b
Report Comment
Instrument Name G8403A JP17141814

[No Gas]				
Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6982	3.58	5.00	
24	114152	3.05	5.00	
25	15288	3.27	5.00	
26	17841	2.93	5.00	
59	70384	2.01	5.00	
113	8741	1.02	5.00	
115	107946	2.00	5.00	
206	22839	3.67	5.00	
207	20797	3.76	5.00	
208	49824	3.37	5.00	
220	1	19.69		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7141	6571	7151	6917	7131
24	116991	110053	116229	110663	116822
25	15647	14666	15670	14822	15635
26	18228	17247	18271	17294	18166
59	71162	68147	71312	69825	71474
113	8817	8647	8655	8744	8841
115	108780	110401	105278	109167	106103
206	21894	23248	22485	24066	22503
207	19888	21134	20558	21952	20453
208	47722	50120	49711	52347	49222
220	1	1	1	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	12105	9.00	8.9 - 9.1		0.739	0.900	
24	188733	24.00	23.9 - 24.1		0.785	0.900	
25	25505	24.95	24.9 - 25.1		0.787	0.900	
26	30207	25.95	25.9 - 26.1		0.783	0.900	
59	123769	58.95	58.9 - 59.1		0.772	0.900	
113	16633	113.00	112.9 - 113.1		0.725	0.900	
115	203649	115.05	114.9 - 115.1		0.760	0.900	
206	41581	205.95	205.9 - 206.1		0.776	0.900	
207	37957	206.95	206.9 - 207.1		0.773	0.900	
208	91459	207.95	207.9 - 208.1		0.777	0.900	
220			-				

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
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.0	V	Deflect	12.8	V
Extract 2	-250.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-110	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	8581	3.13	
89	8136	2.91	
205	12170	3.15	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	8632	8675	8759	8109	8732
89	8165	8223	8289	7721	8281
205	12230	12347	12429	11497	12346

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.0	V	Deflect	2.2	V
Extract 2	-250.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-110	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	5.0	mL/min	OctP RF	200	V			