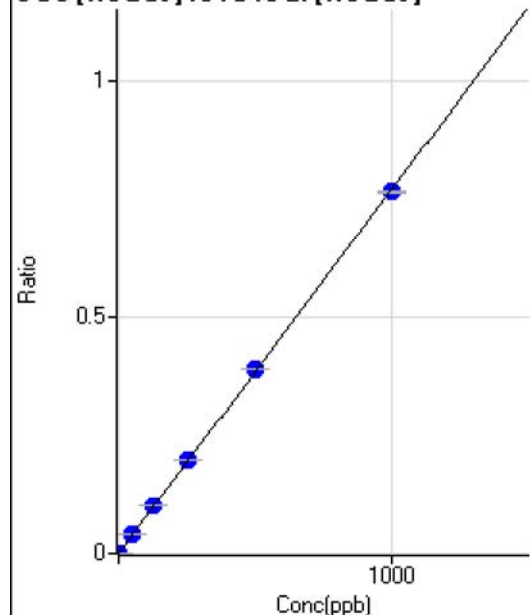


Batch Folder: D:\ICP-MS Data\P7080118-MS .b\
Analysis File: P7080118-MS .batch.bin
DA Date-Time: 2018-08-01 18:05:00
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-08-01 12:30:35
2			
3	005CALS.d	S02	2018-08-01 12:38:54
4	006CALS.d	S03	2018-08-01 12:42:47
5	007CALS.d	S04	2018-08-01 12:46:55
6	008CALS.d	S05	2018-08-01 12:50:43
7	009CALS.d	S06	2018-08-01 12:54:29
8	010CALS.d	S07	2018-08-01 12:58:12
9	011CALS.d	S08	2018-08-01 13:01:56

9 Be [NoGas] ISTD:6 Li [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.70	0.0000	P	33.2
2	☐	0.100					
3	☐	1.000	1.080	2429.89	0.0009	P	6.5
4	☐	50.000	53.332	116074.36	0.0411	P	1.9
5	☐	125.000	130.409	281477.47	0.1006	P	0.5
6	☐	250.000	256.393	536180.46	0.1977	P	0.4
7	☐	500.000	504.479	1033698.26	0.3891	P	0.3
8	☐	1000.000	995.320	2011001.38	0.7676	P	0.6
9	☐			514.84	0.0002	P	2.4

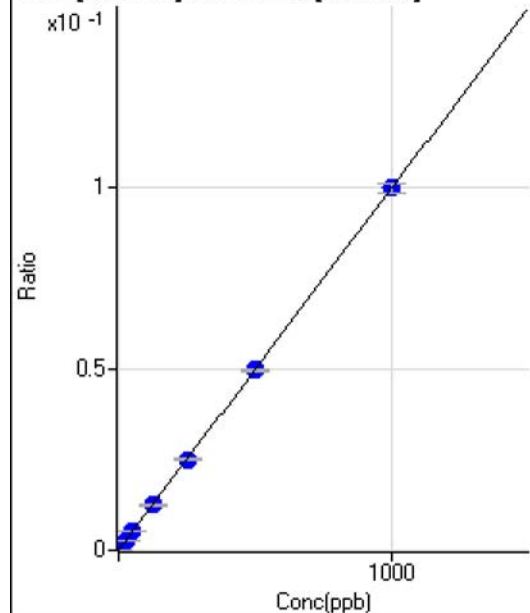
$$y = 7.7116\text{E-}004 * x + 1.8324\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.0237$$

Weight: <None>

Min Conc: 0

10 B [NoGas] ISTD:6 Li [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	227.79	0.0001	P	8.6
2	☐	2.500					
3	☐	25.000	24.281	7126.95	0.0025	P	6.0
4	☐	50.000	50.859	14515.74	0.0051	P	0.5
5	☐	125.000	124.809	35013.82	0.0125	P	3.4
6	☐	250.000	249.500	67610.04	0.0249	P	1.7
7	☐	500.000	497.015	131773.94	0.0496	P	1.1
8	☐	1000.000	1001.616	261646.15	0.0999	P	2.4
9	☐			8441.58	0.0036	P	9.5

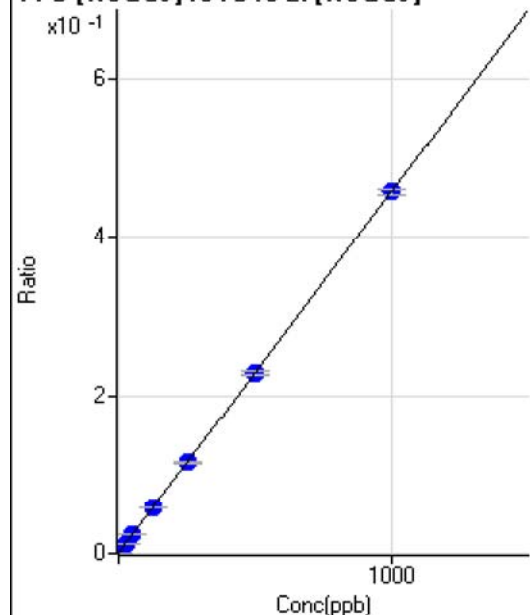
$$y = 9.9633\text{E-}005 * x + 7.7742\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.2008$$

Weight: <None>

Min Conc: 0

11 B [NoGas] ISTD:6 Li [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1033.41	0.0004	P	3.3
2	☐	2.500					
3	☐	25.000	24.722	33276.33	0.0117	P	1.4
4	☐	50.000	51.551	67490.57	0.0239	P	1.2
5	☐	125.000	128.033	164795.29	0.0589	P	1.5
6	☐	250.000	252.253	313671.31	0.1157	P	1.6
7	☐	500.000	497.360	605103.40	0.2277	P	1.4
8	☐	1000.000	1000.307	1199120.19	0.4577	P	1.6
9	☐			38221.76	0.0163	P	8.8

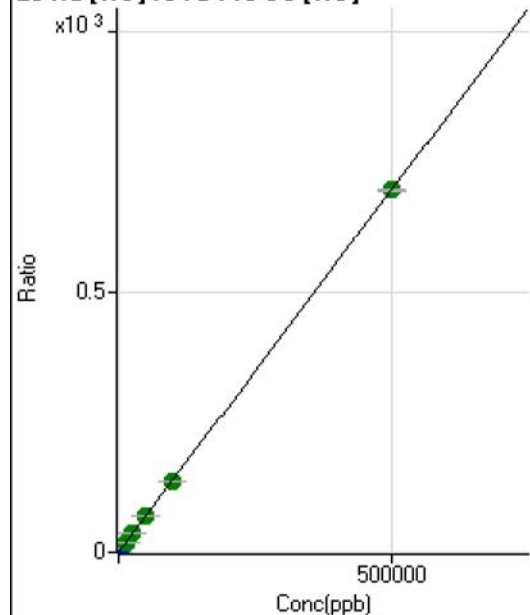
$$y = 4.5720\text{E-}004 * x + 3.5265\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.07693$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10201.09	0.0337	P	3.8
2	☐	50.000					
3	☐	500.000	501.626	223236.14	0.7329	P	0.6
4	☐	5000.000	5055.872	2153344.58	7.0808	P	1.0
5	☐	12500.000	12722.310	5266535.84	17.7667	A	0.7
6	☐	25000.000	25526.754	10200060.04	35.6141	A	0.5
7	☐	50000.000	50158.835	20147557.92	69.9475	A	1.1
8	☐	100000.00	98794.245	40248273.47	137.7377	A	0.1
9	☐	500000.00	500192.81	193163370.9	697.2257	A	0.5

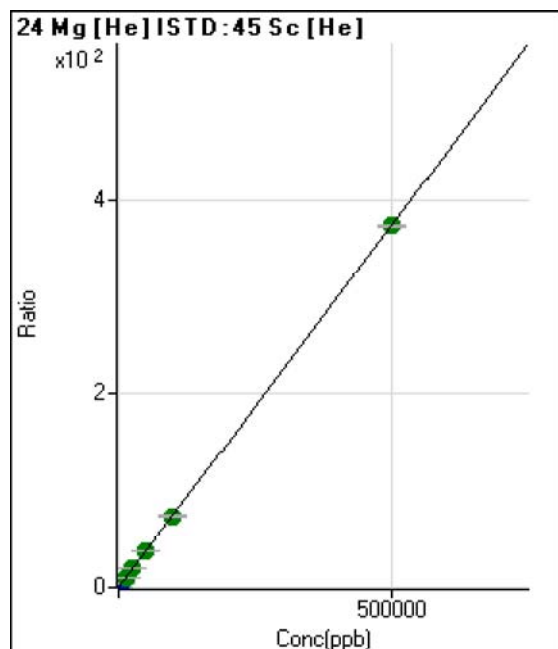
$$y = 0.0014 * x + 0.0337$$

$$R = 1.0000$$

$$DL = 2.771$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.01	0.0006	P	30.1
2	☐	50.000					
3	☐	500.000	497.118	113496.35	0.3727	P	1.5
4	☐	5000.000	5120.810	1165772.86	3.8333	P	1.9
5	☐	12500.000	12878.985	2857623.59	9.6401	A	0.4
6	☐	25000.000	25839.783	5539334.37	19.3408	A	0.7
7	☐	50000.000	50677.812	10925458.84	37.9312	A	1.3
8	☐	100000.00	99049.227	21662898.40	74.1356	A	0.8
9	☐	500000.00	500069.70	103697031.4	374.2861	A	0.7

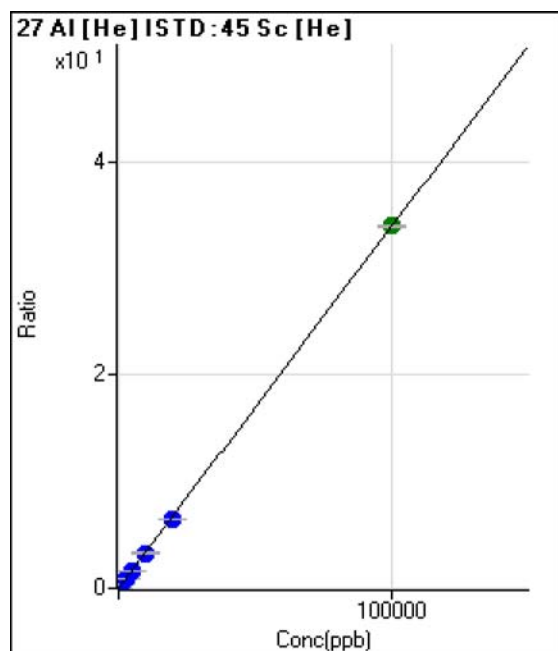
$$y = 7.4847\text{E-}004 * x + 5.7926\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.6981$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0002	P	28.3
2	☐	2.000					
3	☐	20.000	19.098	2033.55	0.0067	P	7.3
4	☐	1000.000	992.068	102323.48	0.3365	P	1.9
5	☐	2500.000	2484.304	249664.32	0.8422	P	0.7
6	☐	5000.000	4986.418	484118.27	1.6903	P	1.4
7	☐	10000.000	9820.156	958816.36	3.3287	P	0.9
8	☐	20000.000	19103.297	1892094.40	6.4752	P	0.4
9	☐	100000.00	100198.47	9409092.14	33.9620	A	0.4

$$y = 3.3895\text{E-}004 * x + 2.0210\text{E-}004$$

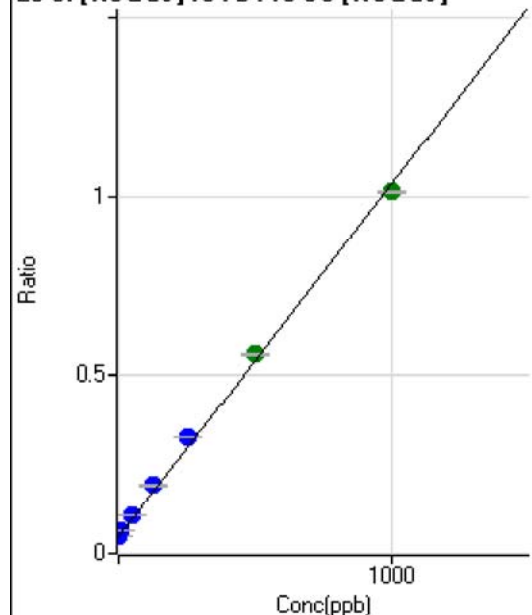
$$R = 1.0000$$

$$DL = 0.5061$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	307726.61	0.0467	P	0.5
2	☐	1.000					
3	☐	10.000	15.759	399906.49	0.0623	P	0.6
4	☐	50.000	59.889	675166.99	0.1060	P	0.8
5	☐	125.000	147.236	1216978.78	0.1924	P	1.7
6	☐	250.000	286.791	2005672.03	0.3306	P	0.3
7	☐	500.000	516.486	3358285.58	0.5579	A	1.2
8	☐	1000.000	979.228	6308865.29	1.0159	A	0.9
9	☐			958015.41	0.1691	P	0.8

$$y = 9.8972E-004 * x + 0.0467$$

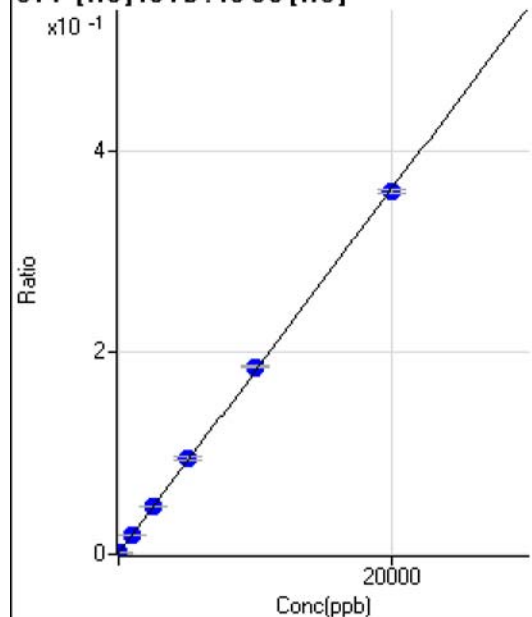
$$R = 0.9990$$

$$DL = 0.6804$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-3.333	297.24	0.0010	P	47.7
2	☐	0.000					
3	☐	0.000	3.333	336.13	0.0011	P	12.7
4	☐	1000.000	1043.581	6054.24	0.0199	P	1.1
5	☐	2500.000	2563.964	14048.76	0.0474	P	1.4
6	☐	5000.000	5174.522	27086.68	0.0946	P	3.7
7	☐	10000.000	10190.613	53365.65	0.1853	P	0.9
8	☐	20000.000	19850.889	105158.31	0.3599	P	1.0
9	☐			330.57	0.0012	P	15.8

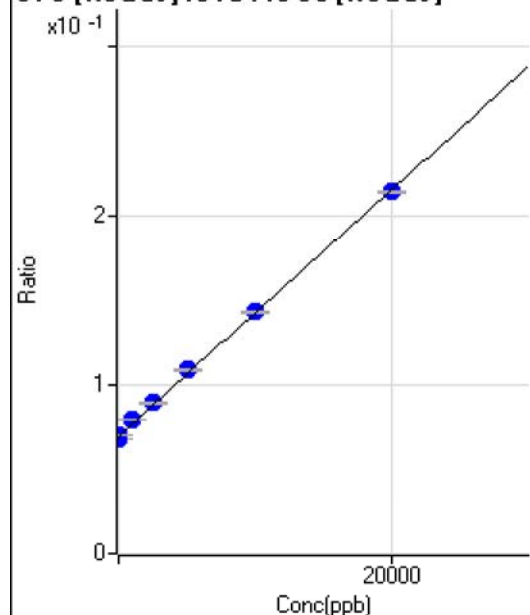
$$y = 1.8076E-005 * x + 0.0010$$

$$R = 0.9999$$

$$DL = 50.63$$

Weight: <None>

Min Conc: 0

34 S [NoGas] ISTD:45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-141.565	452461.88	0.0687	P	0.4
2	☐	0.000					
3	☐	0.000	141.565	454112.79	0.0708	P	0.2
4	☐	1000.000	1346.974	506867.42	0.0796	P	0.2
5	☐	2500.000	2700.570	565755.85	0.0895	P	0.5
6	☐	5000.000	5335.480	659564.98	0.1087	P	0.7
7	☐	10000.000	10041.707	861298.52	0.1431	P	0.9
8	☐	20000.000	19852.857	1333611.50	0.2147	P	0.6
9	☐			351984.48	0.0621	P	0.6

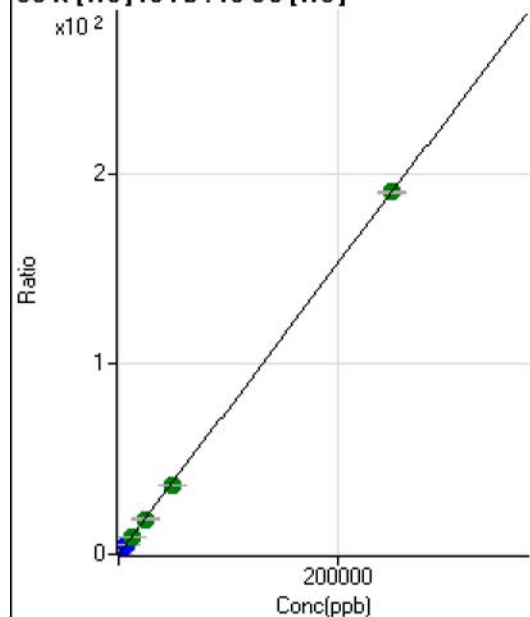
$$y = 7.3041\text{E-}006 * x + 0.0697$$

$$R = 0.9997$$

$$DL = 86.58$$

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	31069.64	0.1028	P	0.3
2	☐	50.000					
3	☐	500.000	488.223	144455.58	0.4743	P	1.0
4	☐	2500.000	2481.108	605446.79	1.9909	P	0.7
5	☐	6250.000	6187.733	1426310.84	4.8117	P	0.8
6	☐	12500.000	12203.038	2689197.54	9.3894	A	0.4
7	☐	25000.000	24419.214	5382479.33	18.6861	A	0.6
8	☐	50000.000	48090.545	10724145.90	36.7002	A	0.1
9	☐	250000.00	250456.58	52834342.85	190.7031	A	0.6

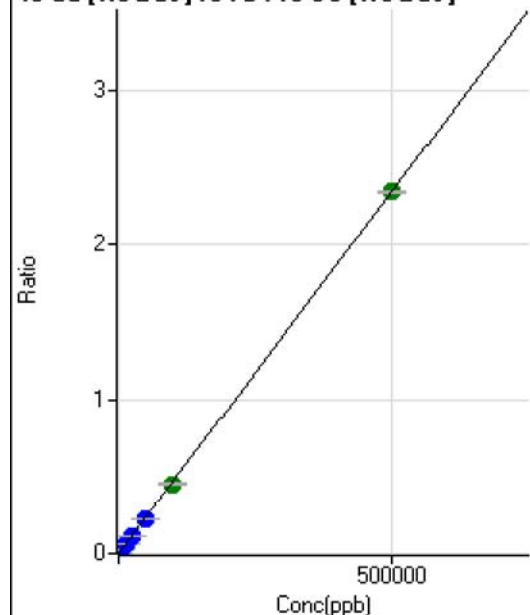
$$y = 7.6101\text{E-}004 * x + 0.1028$$

$$R = 1.0000$$

$$DL = 1.305$$

Weight: <None>

Min Conc: 0

43 Ca [NoGas] ISTD:45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0000	P	13.1
2	☐	50.000					
3	☐	500.000	478.375	14557.77	0.0023	P	2.5
4	☐	5000.000	4975.640	148544.80	0.0233	P	0.2
5	☐	12500.000	12294.783	364132.29	0.0576	P	1.3
6	☐	25000.000	24654.592	700399.06	0.1154	P	0.8
7	☐	50000.000	48675.258	1371739.22	0.2279	P	0.9
8	☐	100000.00	96763.337	2813082.72	0.4530	A	0.5
9	☐	500000.00	500802.47	13283718.44	2.3443	A	0.8

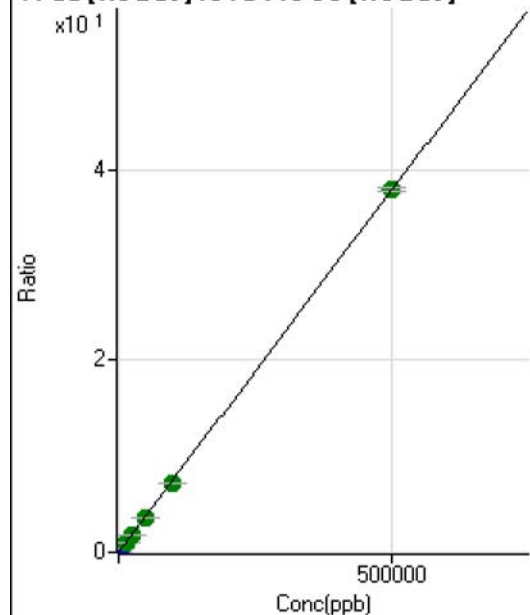
$$y = 4.6810E-006 * x + 2.9525E-005$$

$$R = 1.0000$$

$$DL = 2.471$$

Weight: <None>

Min Conc: 0

44 Ca [NoGas] ISTD:45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6573.94	0.0010	P	2.0
2	☐	50.000					
3	☐	500.000	464.827	232192.11	0.0362	P	0.6
4	☐	5000.000	4921.704	2379483.95	0.3736	P	0.6
5	☐	12500.000	12103.239	5800335.50	0.9172	A	0.7
6	☐	25000.000	24389.800	11208091.92	1.8473	A	0.6
7	☐	50000.000	48505.834	22109766.47	3.6728	A	0.4
8	☐	100000.00	96419.142	45333414.90	7.2998	A	0.3
9	☐	500000.00	500906.83	214864031.1	37.9188	A	0.9

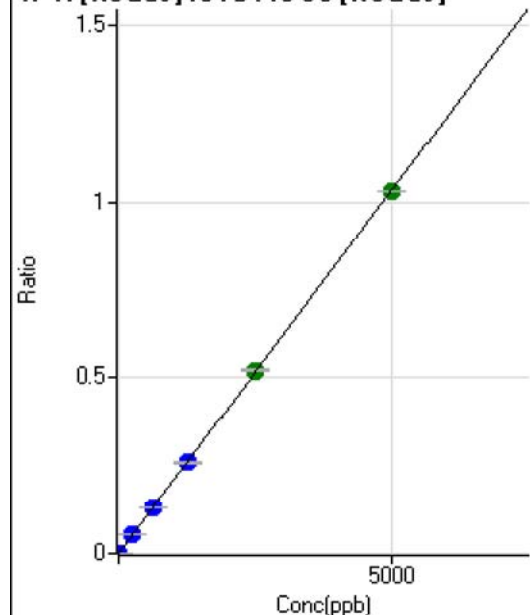
$$y = 7.5698E-005 * x + 9.9818E-004$$

$$R = 1.0000$$

$$DL = 0.7875$$

Weight: <None>

Min Conc: 0

47 Ti [NoGas] ISTD : 45 Sc [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0000	P	26.5
2	☐	0.500					
3	☐	5.000	5.230	7013.04	0.0011	P	4.1
4	☐	250.000	254.626	335082.11	0.0526	P	1.4
5	☐	625.000	631.874	825473.96	0.1305	P	0.8
6	☐	1250.000	1257.604	1576172.16	0.2598	P	0.4
7	☐	2500.000	2523.059	3137218.24	0.5212	A	1.2
8	☐	5000.000	4985.479	6395341.25	1.0298	A	0.1
9	☐			3558.93	0.0006	P	3.3

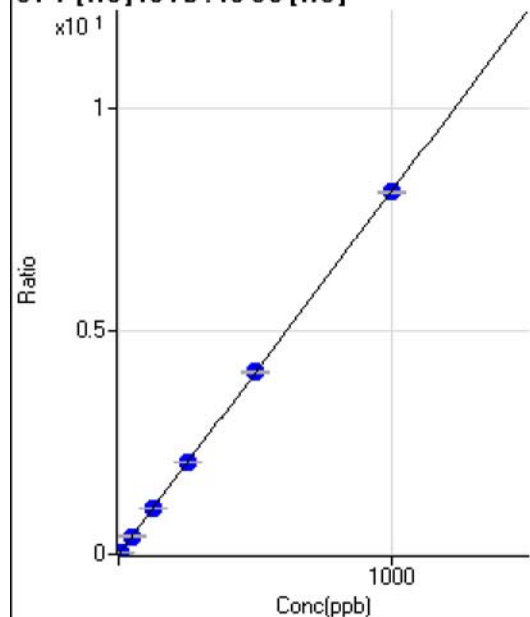
$$y = 2.0656E-004 * x + 1.2654E-005$$

$$R = 1.0000$$

$$DL = 0.04866$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	21.7
2	☐	0.500					
3	☐	5.000	4.893	12168.53	0.0400	P	1.7
4	☐	50.000	50.163	124471.87	0.4093	P	1.5
5	☐	125.000	126.193	305209.46	1.0296	P	0.5
6	☐	250.000	252.410	589818.59	2.0594	P	0.5
7	☐	500.000	501.593	1178802.47	4.0924	P	0.7
8	☐	1000.000	998.444	2380362.74	8.1461	P	0.5
9	☐			1008.94	0.0036	P	2.8

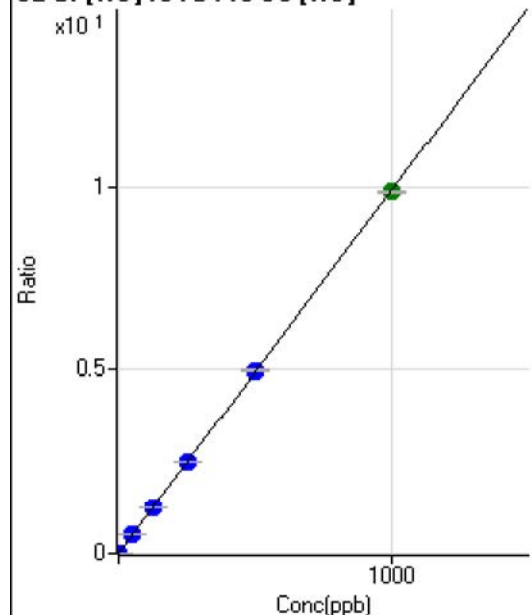
$$y = 0.0082 * x + 2.9404E-005$$

$$R = 1.0000$$

$$DL = 0.002342$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	447.79	0.0015	P	6.1
2	☐	0.200					
3	☐	2.000	2.136	6889.50	0.0226	P	3.4
4	☐	50.000	50.435	152221.57	0.5005	P	0.9
5	☐	125.000	127.914	375640.47	1.2672	P	0.7
6	☐	250.000	253.848	719847.71	2.5134	P	0.3
7	☐	500.000	504.035	1437056.42	4.9890	P	0.9
8	☐	1000.000	996.634	2882184.12	9.8635	A	0.3
9	☐			99205.29	0.3581	P	0.7

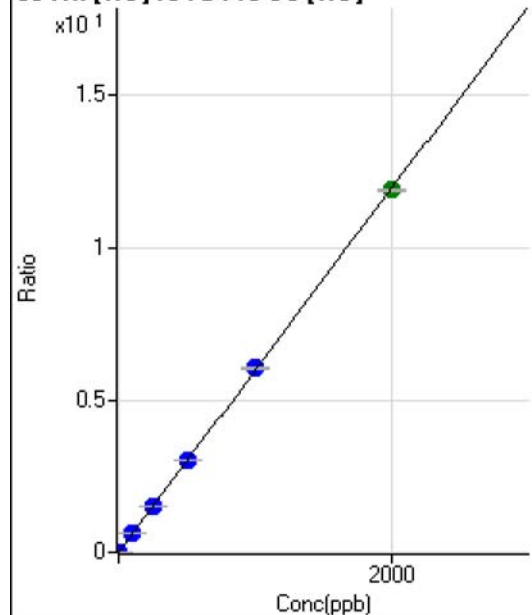
$$y = 0.0099 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 0.02726$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0001	P	34.9
2	☐	0.100					
3	☐	1.000	1.113	2064.62	0.0068	P	2.9
4	☐	100.000	101.430	184377.68	0.6063	P	1.4
5	☐	250.000	255.106	451953.73	1.5246	P	0.4
6	☐	500.000	509.965	872891.69	3.0477	P	0.3
7	☐	1000.000	1008.782	1736471.50	6.0286	P	1.1
8	☐	2000.000	1992.408	3479271.37	11.9068	A	0.2
9	☐			16931.04	0.0611	P	0.5

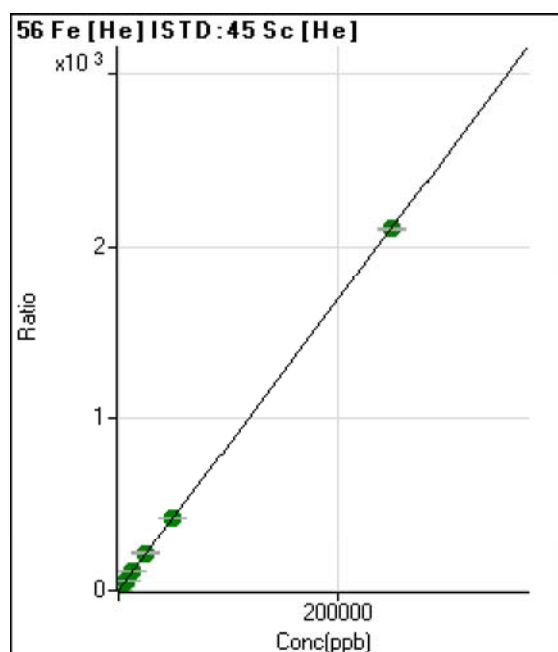
$$y = 0.0060 * x + 1.2872E-004$$

$$R = 1.0000$$

$$DL = 0.02255$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4576.76	0.0151	P	3.7
2	☐	5.000					
3	☐	50.000	51.181	135818.04	0.4459	P	1.0
4	☐	2500.000	2551.503	6535695.52	21.4908	A	1.8
5	☐	6250.000	6456.255	16112842.61	54.3565	A	0.6
6	☐	12500.000	12923.577	31158529.63	108.7911	A	0.4
7	☐	25000.000	25668.617	62234226.85	216.0643	A	1.2
8	☐	50000.000	50616.576	124494889.8	426.0477	A	0.4
9	☐	250000.00	249782.97	582459368.5	2,102.403	A	0.3

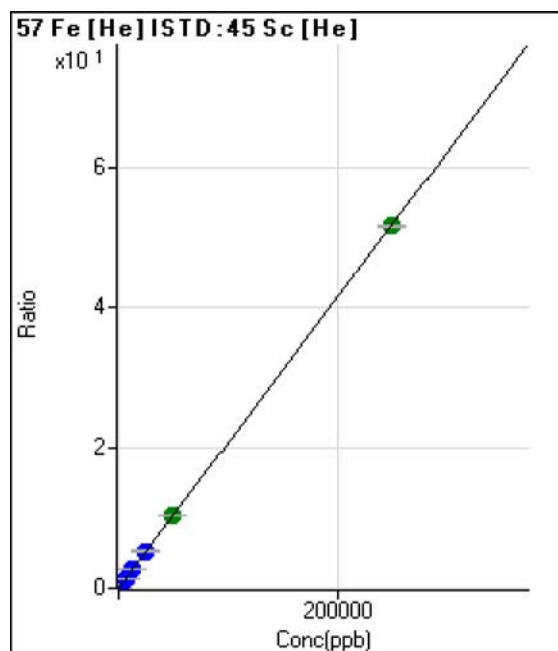
$$y = 0.0084 * x + 0.0151$$

$$R = 1.0000$$

$$DL = 0.1986$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	288.90	0.0010	P	16.3
2	☐	5.000					
3	☐	50.000	52.062	3567.19	0.0117	P	1.6
4	☐	2500.000	2597.789	163516.02	0.5377	P	1.8
5	☐	6250.000	6528.047	400099.16	1.3497	P	0.3
6	☐	12500.000	13033.651	771535.91	2.6938	P	0.4
7	☐	25000.000	25762.995	1533458.91	5.3238	P	1.3
8	☐	50000.000	50477.920	3047729.00	10.4301	A	0.6
9	☐	250000.00	249793.50	14298764.32	51.6101	A	0.7

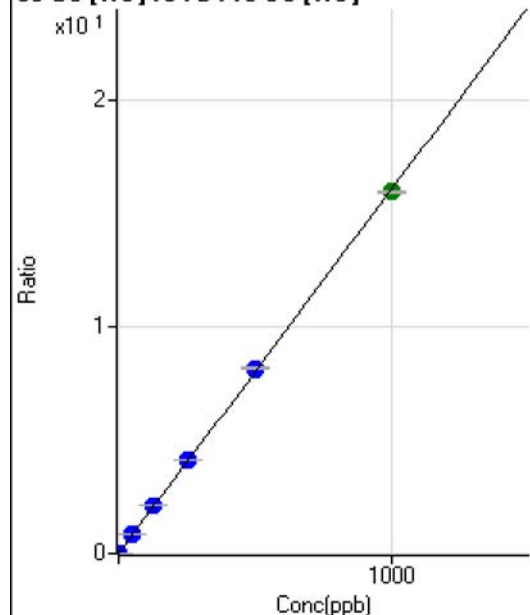
$$y = 2.0661E-004 * x + 9.5509E-004$$

$$R = 1.0000$$

$$DL = 2.264$$

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	76.67	0.0003	P	16.1
2	☐	0.100					
3	☐	1.000	1.048	5202.11	0.0171	P	3.7
4	☐	50.000	51.634	252188.94	0.8293	P	1.7
5	☐	125.000	129.700	617361.47	2.0826	P	0.5
6	☐	250.000	256.471	1179432.92	4.1180	P	0.2
7	☐	500.000	507.262	2346000.02	8.1446	P	0.9
8	☐	1000.000	994.082	4663880.66	15.9607	A	0.4
9	☐			54402.73	0.1964	P	0.5

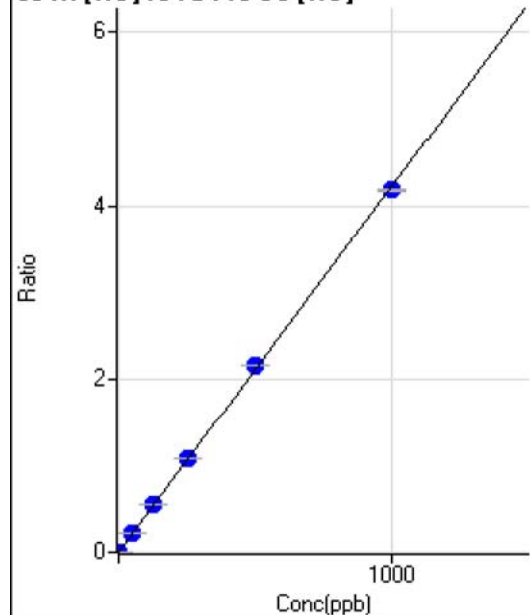
$$y = 0.0161 * x + 2.5367E-004$$

$$R = 0.9999$$

$$DL = 0.007629$$

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	55.56	0.0002	P	22.3
2	☐	0.100					
3	☐	1.000	1.113	1484.54	0.0049	P	7.3
4	☐	50.000	52.130	66881.74	0.2199	P	1.3
5	☐	125.000	130.194	162743.43	0.5490	P	0.2
6	☐	250.000	259.300	313107.56	1.0932	P	0.0
7	☐	500.000	510.156	619504.22	2.1507	P	0.5
8	☐	1000.000	991.841	1221775.75	4.1811	P	0.9
9	☐			35397.33	0.1278	P	0.5

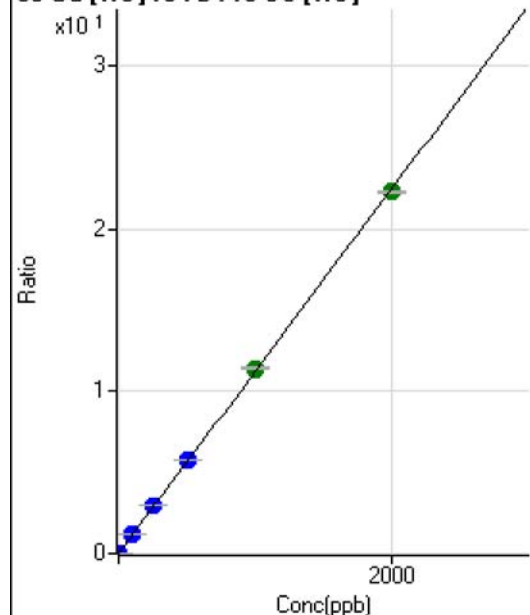
$$y = 0.0042 * x + 1.8364E-004$$

$$R = 0.9999$$

$$DL = 0.02918$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1650.12	0.0055	P	6.9
2	☐	0.200					
3	☐	2.000	2.026	8584.88	0.0282	P	3.3
4	☐	100.000	105.029	360031.25	1.1839	P	1.1
5	☐	250.000	261.565	871583.67	2.9402	P	0.5
6	☐	500.000	518.780	1668687.41	5.8262	P	0.3
7	☐	1000.000	1014.990	3281885.37	11.3938	A	0.9
8	☐	2000.000	1986.113	6513293.72	22.2899	A	0.3
9	☐			15473.92	0.0559	P	1.3

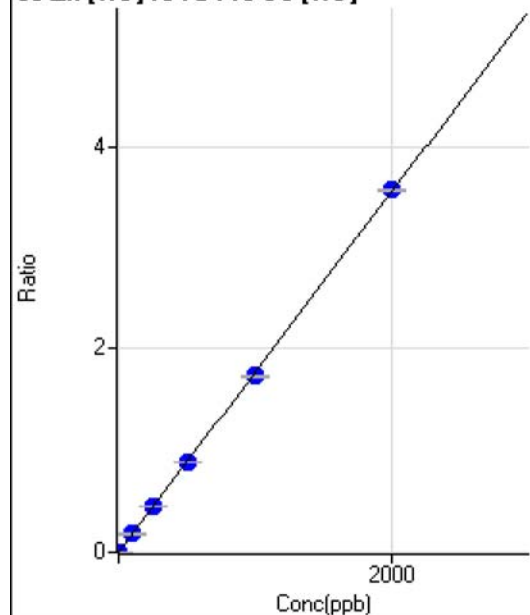
$$y = 0.0112 * x + 0.0055$$

$$R = 0.9999$$

$$DL = 0.1009$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	227.78	0.0008	P	6.0
2	☐	0.200					
3	☐	2.000	2.253	1447.88	0.0048	P	3.9
4	☐	100.000	100.904	54728.93	0.1800	P	1.7
5	☐	250.000	253.228	133540.55	0.4505	P	0.4
6	☐	500.000	502.223	255680.22	0.8927	P	0.2
7	☐	1000.000	976.217	499649.51	1.7345	P	0.3
8	☐	2000.000	2010.887	1043819.35	3.5721	P	0.5
9	☐			6414.83	0.0232	P	2.4

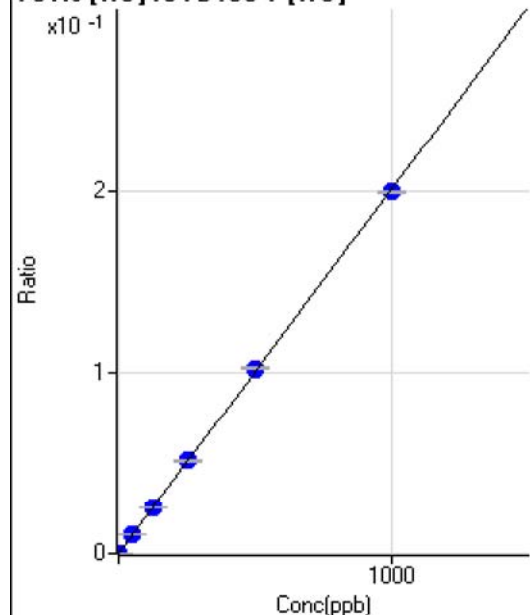
$$y = 0.0018 * x + 7.5331E-004$$

$$R = 0.9999$$

$$DL = 0.07601$$

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	5.56	0.0000	P	88.2
2	☐	0.100					
3	☐	1.000	0.998	354.33	0.0002	P	9.3
4	☐	50.000	51.038	17898.74	0.0103	P	1.4
5	☐	125.000	128.335	44276.41	0.0258	P	0.9
6	☐	250.000	255.990	85646.95	0.0515	P	0.4
7	☐	500.000	507.712	171135.68	0.1021	P	0.6
8	☐	1000.000	994.178	342509.53	0.1999	P	0.2
9	☐			529.03	0.0003	P	5.3

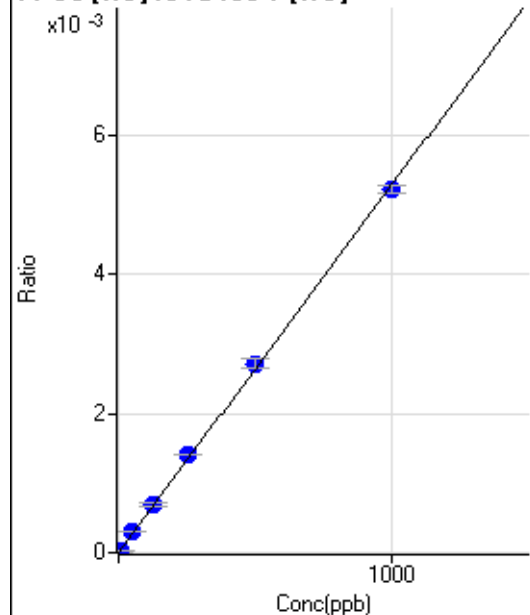
$$y = 2.0110E-004 * x + 3.2319E-006$$

$$R = 0.9999$$

$$DL = 0.0425$$

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	☐	0.500					
3	☐	5.000	5.336	50.00	0.0000	P	23.8
4	☐	50.000	57.301	527.80	0.0003	P	5.7
5	☐	125.000	131.855	1193.40	0.0007	P	7.8
6	☐	250.000	266.576	2339.12	0.0014	P	1.3
7	☐	500.000	514.870	4549.68	0.0027	P	4.3
8	☐	1000.000	987.197	8917.32	0.0052	P	2.2
9	☐			5.55	0.0000	P	70.3

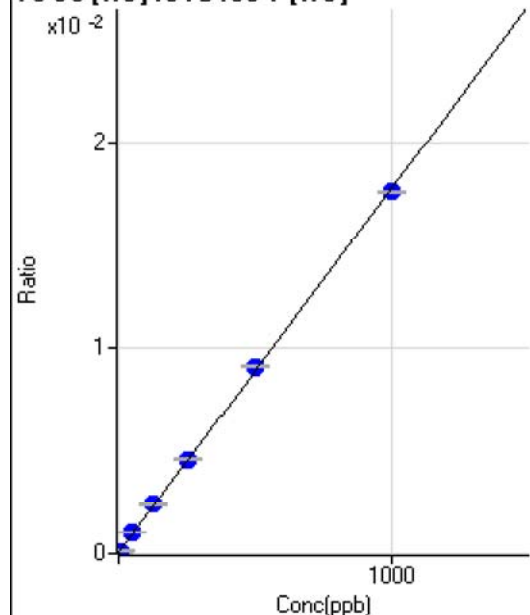
$$y = 5.2723E-006 * x + 6.4492E-007$$

$$R = 0.9997$$

$$DL = 0.6356$$

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	74.08	0.0000	P	24.0
2	☐	0.500					
3	☐	5.000	5.136	232.72	0.0001	P	9.2
4	☐	50.000	53.825	1737.15	0.0010	P	2.2
5	☐	125.000	132.068	4086.41	0.0024	P	1.9
6	☐	250.000	257.483	7658.26	0.0046	P	1.1
7	☐	500.000	509.492	15197.54	0.0091	P	1.1
8	☐	1000.000	992.308	30183.87	0.0176	P	0.7
9	☐			91.98	0.0001	P	15.8

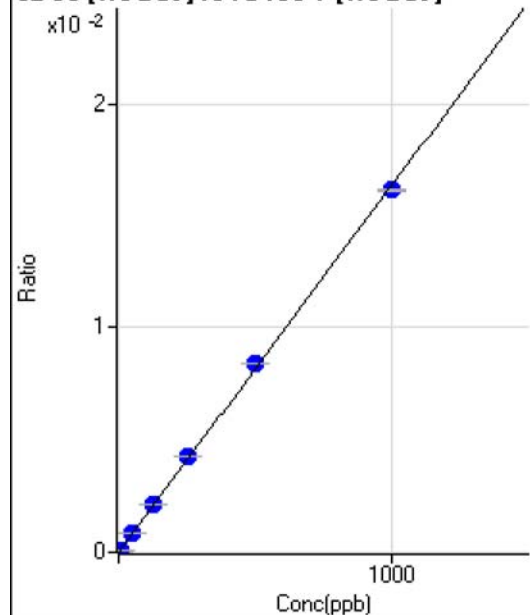
$$y = 1.7712\text{E-}005 * x + 4.3046\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.748$$

Weight: <None>

Min Conc: 0

82 Se [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31.56	0.0000	P	106.
2	☐	0.500					
3	☐	5.000	5.248	944.21	0.0001	P	6.0
4	☐	50.000	53.201	9227.82	0.0009	P	1.8
5	☐	125.000	132.273	22889.03	0.0022	P	0.4
6	☐	250.000	262.394	43948.04	0.0043	P	0.7
7	☐	500.000	514.276	85952.62	0.0084	P	0.4
8	☐	1000.000	988.693	170464.66	0.0162	P	0.2
9	☐			161.56	0.0000	P	13.7

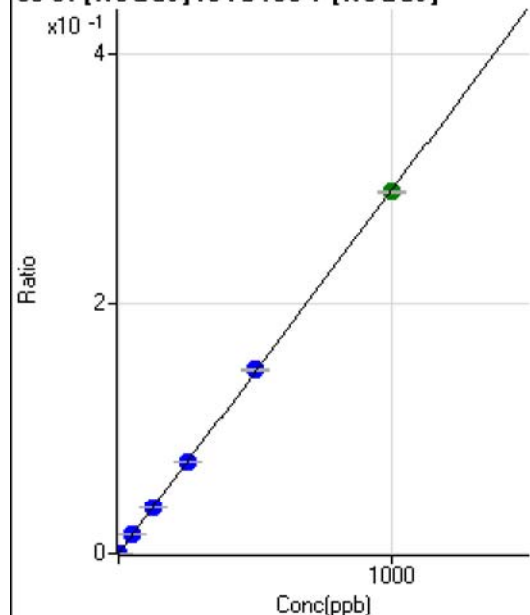
$$y = 1.6347\text{E-}005 * x + 2.9048\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.5649$$

Weight: <None>

Min Conc: 0

86 Sr [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	661.16	0.0001	P	18.4
2	☐	0.100					
3	☐	1.000	1.039	3870.13	0.0004	P	5.7
4	☐	50.000	50.928	157726.47	0.0149	P	1.1
5	☐	125.000	126.996	392212.69	0.0371	P	0.7
6	☐	250.000	253.259	756961.09	0.0739	P	0.2
7	☐	500.000	504.489	1504546.04	0.1472	P	0.1
8	☐	1000.000	996.645	3066097.98	0.2908	A	0.5
9	☐			14379.99	0.0015	P	5.1

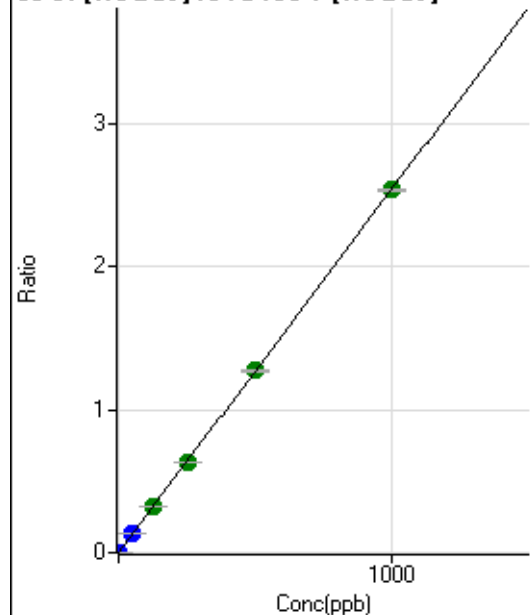
$$y = 2.9167\text{E-}004 * x + 6.0485\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.1145$$

Weight: <None>

Min Conc: 0

88 Sr [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.12	0.0000	P	24.8
2	☐	0.100					
3	☐	1.000	0.978	26592.15	0.0025	P	1.1
4	☐	50.000	50.700	1362950.99	0.1289	P	0.4
5	☐	125.000	125.564	3374064.66	0.3192	A	0.1
6	☐	250.000	250.821	6527809.52	0.6375	A	0.5
7	☐	500.000	501.335	13024194.13	1.2743	A	0.7
8	☐	1000.000	999.022	26777757.20	2.5393	A	0.5
9	☐			122186.99	0.0129	P	0.9

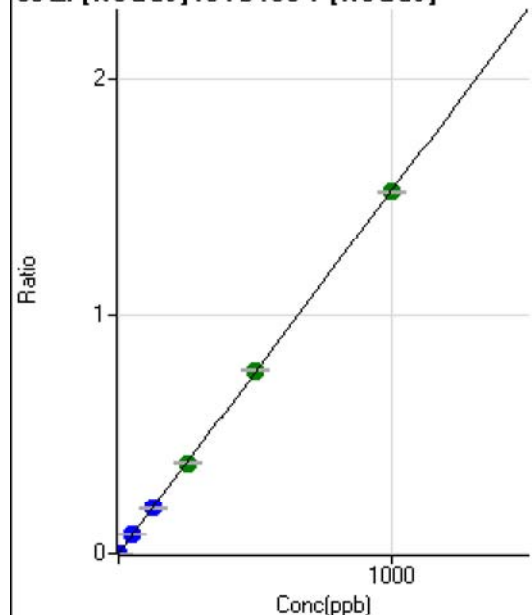
$$y = 0.0025 * x + 1.2464\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.003654$$

Weight: <None>

Min Conc: 0

90 Zr [NoGas] ISTD:89 Y [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	827.84	0.0001	P	8.6
2	☐	0.100					
3	☐	1.000	0.999	17074.69	0.0016	P	2.9
4	☐	50.000	50.424	816180.13	0.0772	P	0.3
5	☐	125.000	124.548	2014055.28	0.1905	P	0.6
6	☐	250.000	250.412	3921296.92	0.3830	A	0.6
7	☐	500.000	504.014	7877642.97	0.7707	A	0.5
8	☐	1000.000	997.926	16092135.95	1.5260	A	0.6
9	☐			4381.42	0.0005	P	8.1

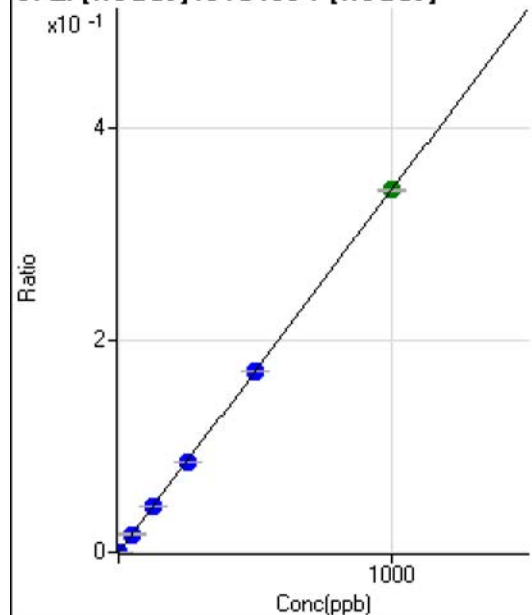
$$y = 0.0015 * x + 7.5800E-005$$

$$R = 1.0000$$

$$DL = 0.01278$$

Weight: <None>

Min Conc: 0

91 Zr [NoGas] ISTD:89 Y [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	180.56	0.0000	P	34.5
2	☐	0.100					
3	☐	1.000	1.019	3884.03	0.0004	P	1.4
4	☐	50.000	50.331	182114.27	0.0172	P	0.4
5	☐	125.000	125.628	454133.26	0.0430	P	0.7
6	☐	250.000	250.916	878360.75	0.0858	P	0.7
7	☐	500.000	498.353	1741274.76	0.1704	P	0.4
8	☐	1000.000	1000.500	3606647.82	0.3420	A	0.5
9	☐			950.07	0.0001	P	15.9

$$y = 3.4182E-004 * x + 1.6519E-005$$

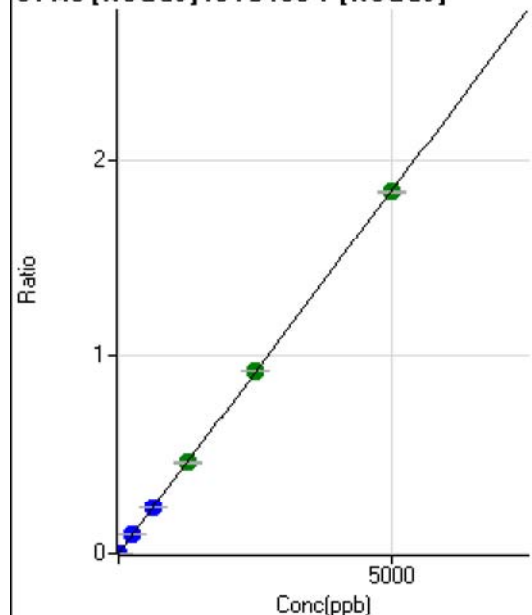
$$R = 1.0000$$

$$DL = 0.04999$$

Weight: <None>

Min Conc: 0

94 Mo [NoGas] ISTD:89 Y [NoGas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.35	0.0000	P	26.0
2	☐	0.500					
3	☐	5.000	4.906	19572.41	0.0018	P	2.1
4	☐	250.000	253.453	988261.46	0.0934	P	0.4
5	☐	625.000	625.921	2439220.93	0.2307	P	0.3
6	☐	1250.000	1259.612	4754041.95	0.4643	A	0.8
7	☐	2500.000	2511.754	9462602.90	0.9258	A	0.4
8	☐	5000.000	4991.432	19401532.90	1.8398	A	0.5
9	☐			21227.51	0.0022	P	2.9

$$y = 3.6858\text{E-}004 * x + 3.0513\text{E-}005$$

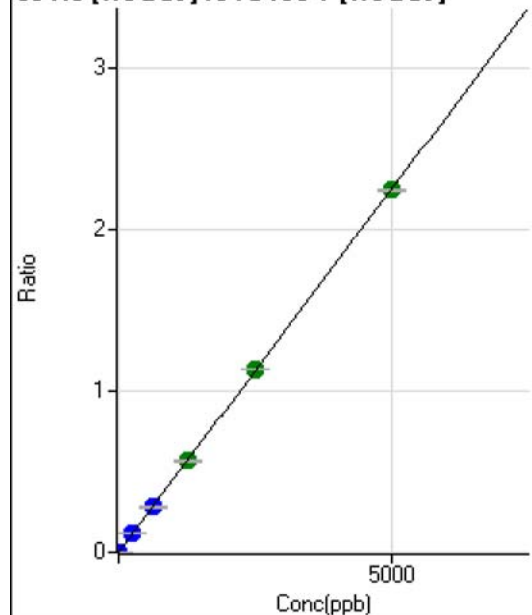
$$R = 1.0000$$

$$DL = 0.06448$$

Weight: <None>

Min Conc: 0

95 Mo [NoGas] ISTD:89 Y [NoGas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	27.2
2	☐	0.500					
3	☐	5.000	4.920	23589.67	0.0022	P	0.8
4	☐	250.000	252.974	1203280.79	0.1138	P	0.2
5	☐	625.000	622.767	2961069.14	0.2801	P	0.4
6	☐	1250.000	1258.219	5794342.40	0.5659	A	0.3
7	☐	2500.000	2510.379	11540084.46	1.1291	A	0.2
8	☐	5000.000	4992.886	23681053.83	2.2456	A	0.3
9	☐			33601.59	0.0035	P	4.6

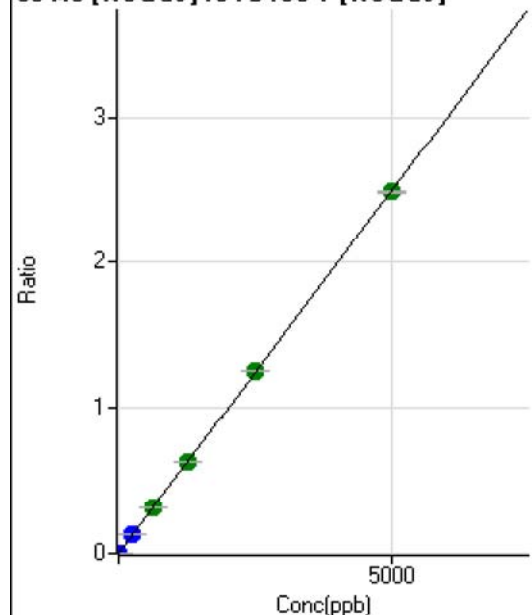
$$y = 4.4976\text{E-}004 * x + 3.3105\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.006007$$

Weight: <None>

Min Conc: 0

96 Mo [NoGas] ISTD : 89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.11	0.0000	P	39.4
2	☐	0.500					
3	☐	5.000	4.885	26021.89	0.0024	P	1.9
4	☐	250.000	252.541	1332209.70	0.1260	P	0.4
5	☐	625.000	624.350	3292275.49	0.3114	A	0.2
6	☐	1250.000	1260.302	6436695.85	0.6286	A	0.5
7	☐	2500.000	2509.116	12791677.20	1.2515	A	0.0
8	☐	5000.000	4992.821	26262303.89	2.4904	A	0.2
9	☐			44988.98	0.0047	P	4.1

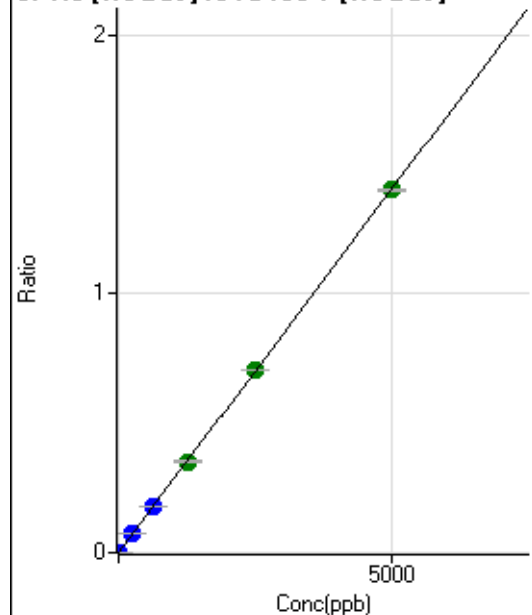
$$y = 4.9879\text{E-}004 * x + 7.8952\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01872$$

Weight: <None>

Min Conc: 0

97 Mo [NoGas] ISTD : 89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	62.8
2	☐	0.500					
3	☐	5.000	4.947	14813.75	0.0014	P	2.1
4	☐	250.000	253.401	752478.60	0.0712	P	0.6
5	☐	625.000	623.689	1851360.15	0.1751	P	0.2
6	☐	1250.000	1255.721	3610236.54	0.3526	A	0.4
7	☐	2500.000	2508.625	7199407.71	0.7044	A	0.2
8	☐	5000.000	4994.251	14788148.59	1.4023	A	0.2
9	☐			20565.52	0.0022	P	1.4

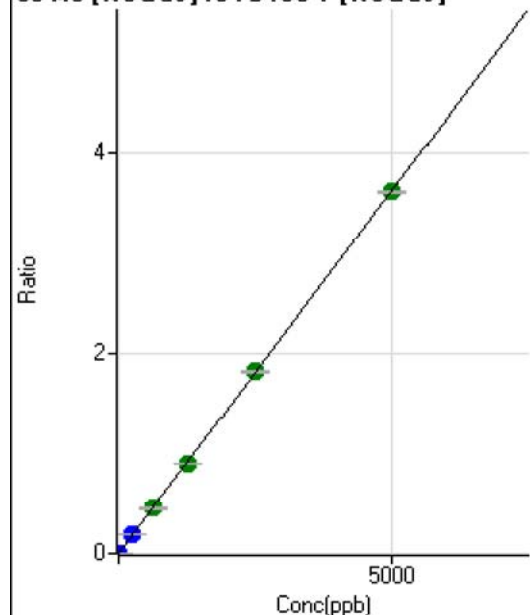
$$y = 2.8079\text{E-}004 * x + 2.7905\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01871$$

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	58.33	0.0000	P	24.0
2	☐	0.500					
3	☐	5.000	4.915	37920.68	0.0036	P	0.6
4	☐	250.000	253.390	1939302.69	0.1834	P	0.7
5	☐	625.000	622.642	4763528.49	0.4506	A	0.5
6	☐	1250.000	1254.586	9296419.39	0.9079	A	0.4
7	☐	2500.000	2505.444	18531936.53	1.8132	A	0.5
8	☐	5000.000	4996.257	38129474.46	3.6157	A	0.2
9	☐			53135.92	0.0056	P	0.9

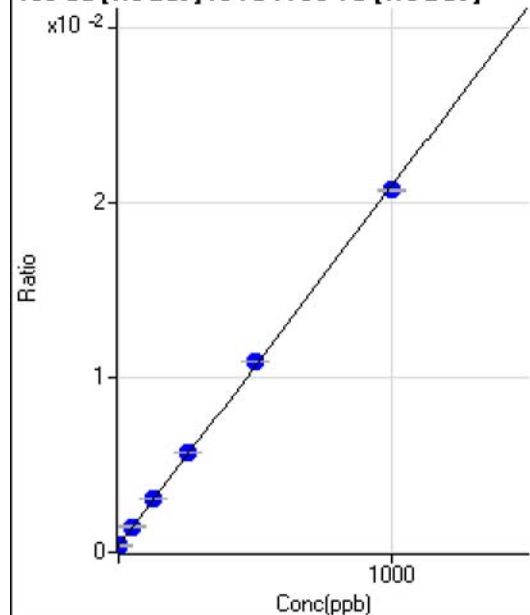
$$y = 7.2369\text{E-}004 * x + 5.3348\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.005304$$

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	5073.33	0.0004	P	4.1
2	☐	0.100					
3	☐	1.000	1.475	5301.21	0.0004	P	8.3
4	☐	50.000	54.428	20067.77	0.0015	P	1.8
5	☐	125.000	132.805	42152.59	0.0031	P	1.9
6	☐	250.000	259.445	76006.96	0.0057	P	1.0
7	☐	500.000	512.399	145096.44	0.0109	P	0.2
8	☐	1000.000	990.242	285289.52	0.0207	P	0.7
9	☐			4450.89	0.0004	P	1.8

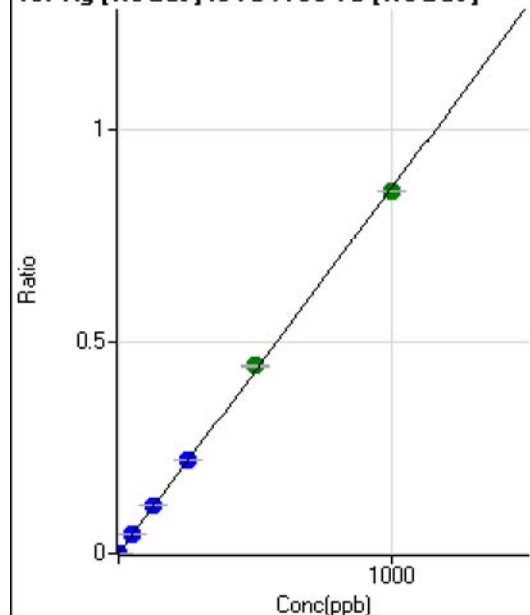
$$y = 2.0552\text{E-}005 * x + 3.5784\text{E-}004$$

$$R = 0.9998$$

$$DL = 2.116$$

Weight: <None>

Min Conc: 0

107 Ag [NoGas] ISTD : 159 Tb [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	13.3
2	☐	0.100					
3	☐	1.000	1.073	12753.49	0.0009	P	2.8
4	☐	50.000	54.595	640913.28	0.0472	P	0.2
5	☐	125.000	132.362	1560823.72	0.1143	P	0.3
6	☐	250.000	258.345	2980462.20	0.2231	P	0.6
7	☐	500.000	512.254	5894793.01	0.4424	A	0.6
8	☐	1000.000	990.636	11785688.89	0.8555	A	0.1
9	☐			1697.40	0.0001	P	13.8

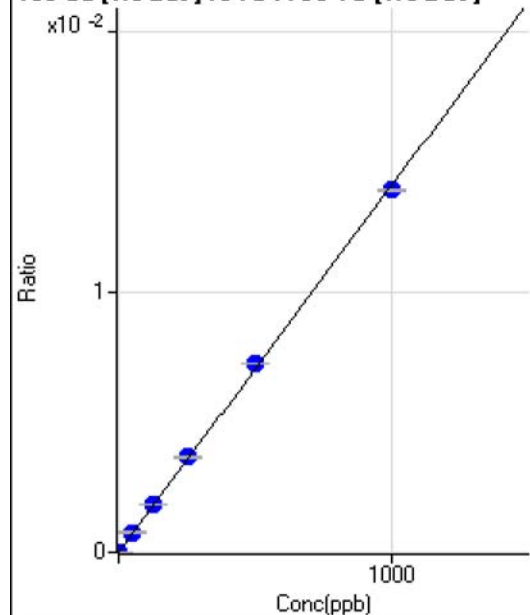
$$y = 8.6359\text{E-}004 * x + 6.6614\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.003081$$

Weight: <None>

Min Conc: 0

108 Cd [NoGas] ISTD : 159 Tb [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.17	0.0000	P	99.8
2	☐	0.100					
3	☐	1.000	1.155	226.40	0.0000	P	21.7
4	☐	50.000	54.758	10487.41	0.0008	P	2.0
5	☐	125.000	132.660	25517.59	0.0019	P	0.7
6	☐	250.000	261.260	49161.69	0.0037	P	2.1
7	☐	500.000	515.003	96667.11	0.0073	P	0.3
8	☐	1000.000	988.488	191816.36	0.0139	P	0.7
9	☐			62.50	0.0000	P	17.4

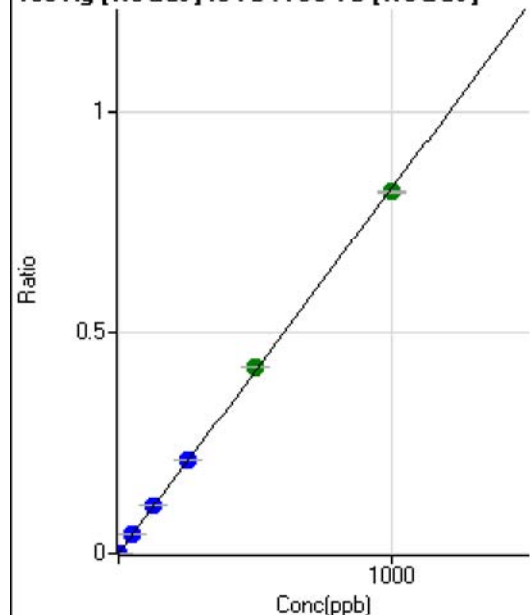
$$y = 1.4086\text{E-}005 * x + 2.9399\text{E-}007$$

$$R = 0.9998$$

$$DL = 0.0625$$

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	83.34	0.0000	P	19.9
2	☐	0.100					
3	☐	1.000	1.051	11938.87	0.0009	P	0.5
4	☐	50.000	54.238	608671.52	0.0448	P	0.7
5	☐	125.000	131.470	1481977.29	0.1085	P	0.5
6	☐	250.000	258.143	2846856.42	0.2131	P	0.9
7	☐	500.000	510.094	5611355.16	0.4211	A	0.3
8	☐	1000.000	991.897	11280585.15	0.8189	A	0.6
9	☐			1586.27	0.0001	P	20.8

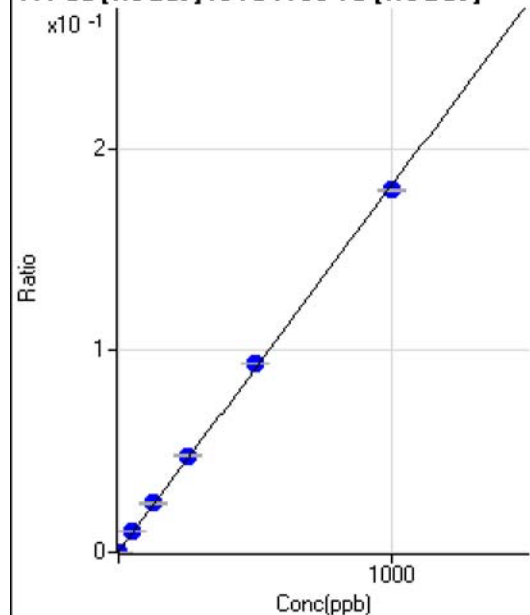
$$y = 8.2554\text{E-}004 * x + 5.8783\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.004258$$

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	3552.58	0.0003	P	4.1
2	☐	0.100					
3	☐	1.000	1.060	6052.64	0.0004	P	4.5
4	☐	50.000	54.493	137969.26	0.0102	P	0.3
5	☐	125.000	132.755	332738.19	0.0244	P	1.0
6	☐	250.000	263.350	642496.42	0.0481	P	0.2
7	☐	500.000	513.932	1247563.73	0.0936	P	0.2
8	☐	1000.000	988.502	2477497.73	0.1798	P	0.7
9	☐			3720.52	0.0003	P	1.1

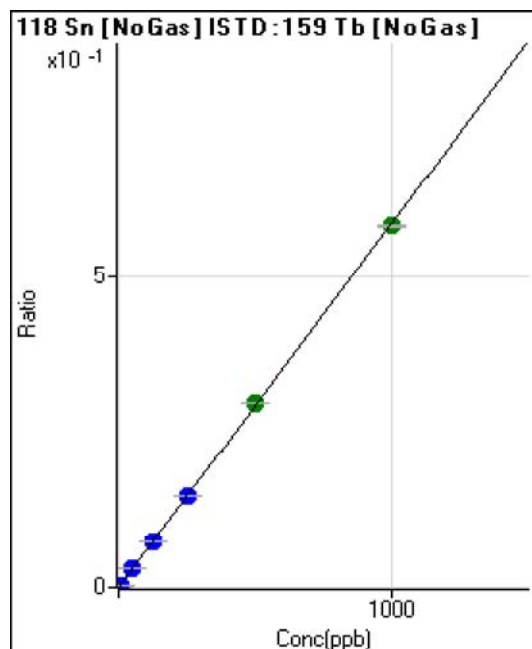
$$y = 1.8168\text{E-}004 * x + 2.5058\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.169$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1436.28	0.0001	P	9.8
2	☐	0.500					
3	☐	5.000	5.005	41378.69	0.0030	P	0.4
4	☐	50.000	52.065	415299.75	0.0306	P	1.1
5	☐	125.000	127.776	1021866.12	0.0748	P	0.1
6	☐	250.000	253.425	1981568.43	0.1483	P	0.3
7	☐	500.000	506.947	3952675.92	0.2966	A	0.2
8	☐	1000.000	995.220	8020805.22	0.5822	A	0.6
9	☐			16793.96	0.0014	P	3.6

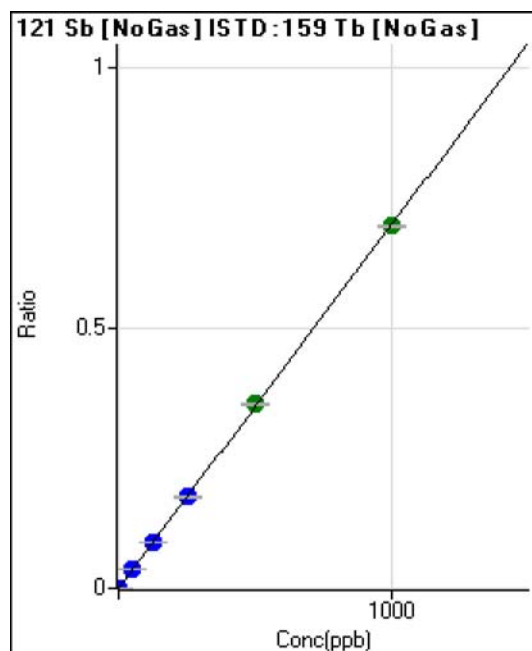
$$y = 5.8492\text{E-}004 * x + 1.0133\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.05092$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	32.8
2	☐	0.200					
3	☐	2.000	2.023	19366.82	0.0014	P	1.1
4	☐	50.000	51.844	492202.03	0.0362	P	0.5
5	☐	125.000	126.879	1209990.34	0.0886	P	0.2
6	☐	250.000	251.039	2342220.67	0.1753	P	0.4
7	☐	500.000	505.066	4700471.63	0.3528	A	0.4
8	☐	1000.000	996.880	9591470.27	0.6962	A	0.6
9	☐			15094.81	0.0012	P	5.1

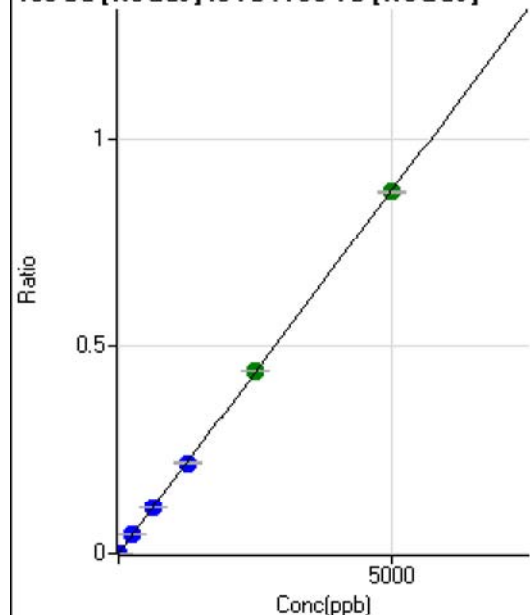
$$y = 6.9842\text{E-}004 * x + 4.5077\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.006358$$

Weight: <None>

Min Conc: 0

135 Ba [NoGas] ISTD : 159 Tb [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.3
2	☐	1.000					
3	☐	10.000	10.214	24486.25	0.0018	P	1.2
4	☐	250.000	257.724	614270.80	0.0452	P	0.2
5	☐	625.000	632.907	1515355.75	0.1110	P	0.4
6	☐	1250.000	1255.605	2941227.15	0.2202	P	0.2
7	☐	2500.000	2516.209	5879428.87	0.4412	A	0.5
8	☐	5000.000	4989.119	12052061.99	0.8749	A	0.5
9	☐			2792.09	0.0002	P	21.1

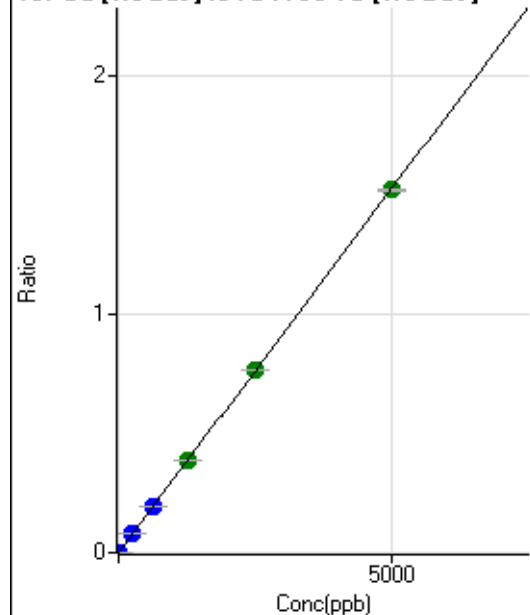
$$y = 1.7535\text{E-}004 * x + 1.3710\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01532$$

Weight: <None>

Min Conc: 0

137 Ba [NoGas] ISTD : 159 Tb [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	25.2
2	☐	1.000					
3	☐	10.000	10.086	42019.92	0.0031	P	0.4
4	☐	250.000	258.644	1071323.40	0.0788	P	0.4
5	☐	625.000	632.125	2630206.31	0.1926	P	0.5
6	☐	1250.000	1259.337	5126648.60	0.3838	A	0.3
7	☐	2500.000	2519.898	10232580.87	0.7679	A	0.3
8	☐	5000.000	4986.394	20933354.98	1.5195	A	0.3
9	☐			4901.09	0.0004	P	11.9

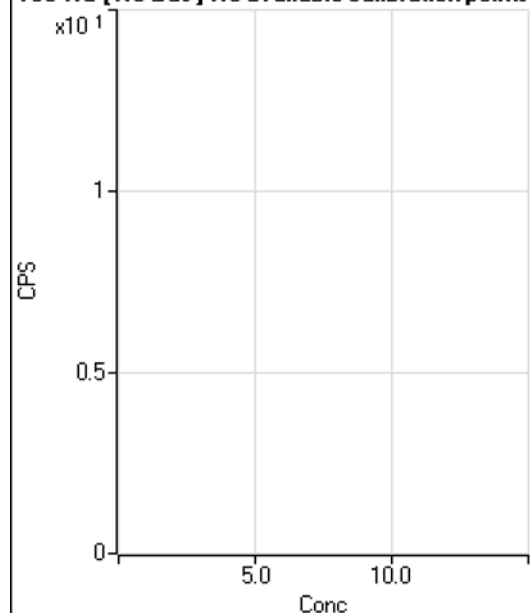
$$y = 3.0474\text{E-}004 * x + 2.3524\text{E-}006$$

$$R = 1.0000$$

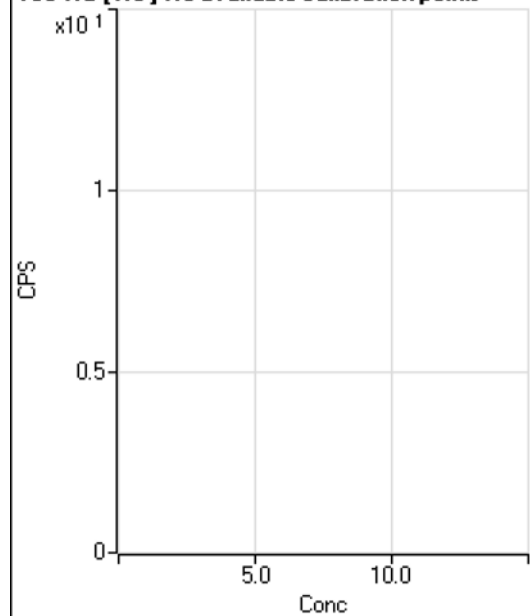
$$DL = 0.005842$$

Weight: <None>

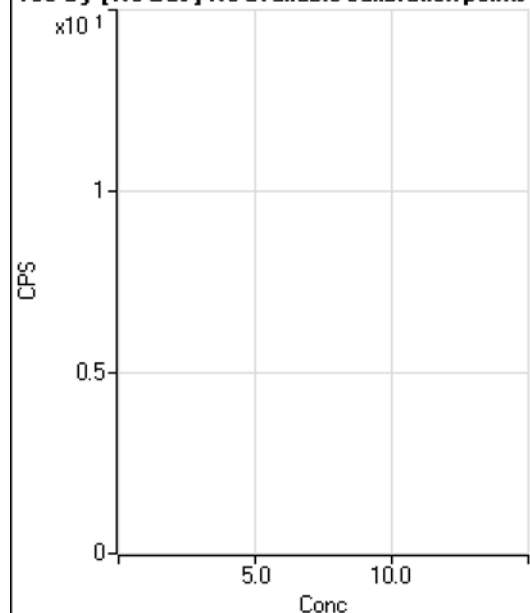
Min Conc: 0

150 Nd [No Gas] No available calibration points

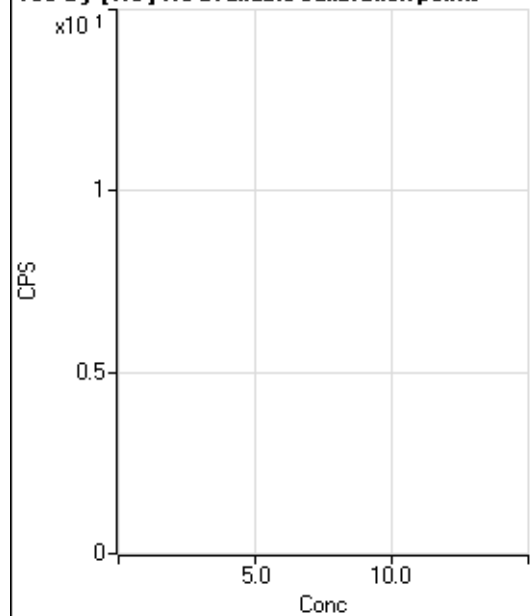
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐						
3	☐			6.67		P	100.
4	☐			64.45		P	21.5
5	☐			151.12		P	15.5
6	☐			271.13		P	7.5
7	☐			540.03		P	3.3
8	☐			1706.83		P	4.1
9	☐			115.56		P	8.8

150 Nd [He] No available calibration points

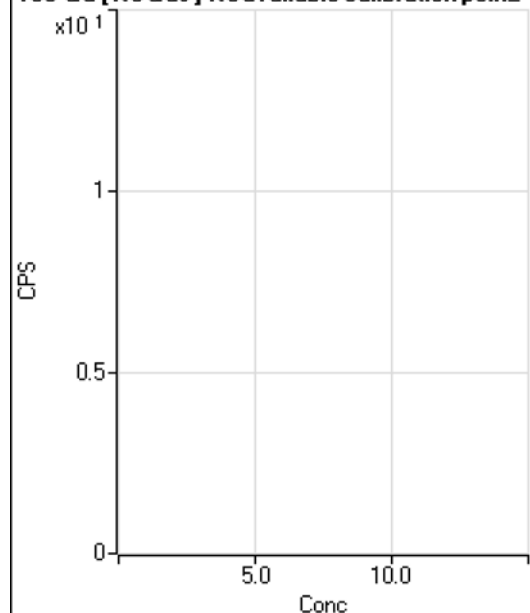
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			3.33		P	100.
4	☐			10.00		P	57.8
5	☐			18.89		P	44.4
6	☐			34.45		P	31.1
7	☐			76.67		P	19.0
8	☐			365.57		P	10.0
9	☐			54.45		P	12.7

156 Dy [No Gas] No available calibration points

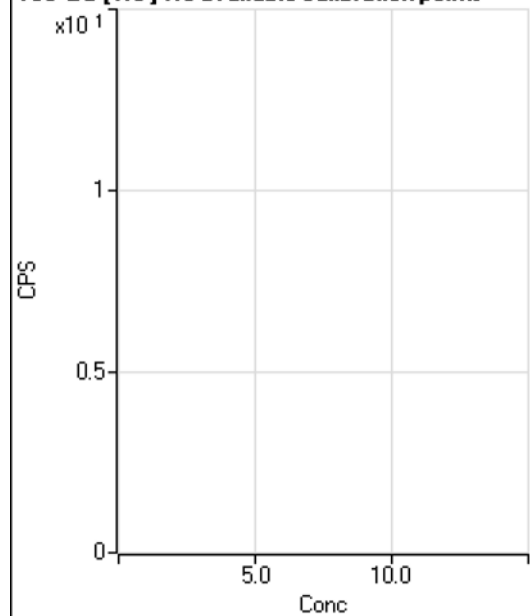
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐						
3	☐			11.11		P	114.
4	☐			22.22		P	57.3
5	☐			27.78		P	17.3
6	☐			55.56		P	45.8
7	☐			138.90		P	22.7
8	☐			577.81		P	17.1
9	☐			138.90		P	9.2

156 Dy [He] No available calibration points

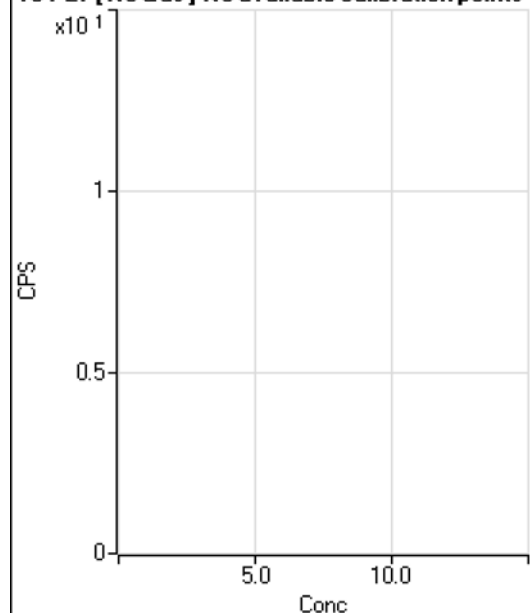
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐						
3	☐			5.55		P	69.3
4	☐			20.00		P	0.0
5	☐			26.67		P	62.5
6	☐			58.89		P	23.6
7	☐			78.89		P	6.5
8	☐			405.57		P	9.1
9	☐			51.11		P	43.4

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

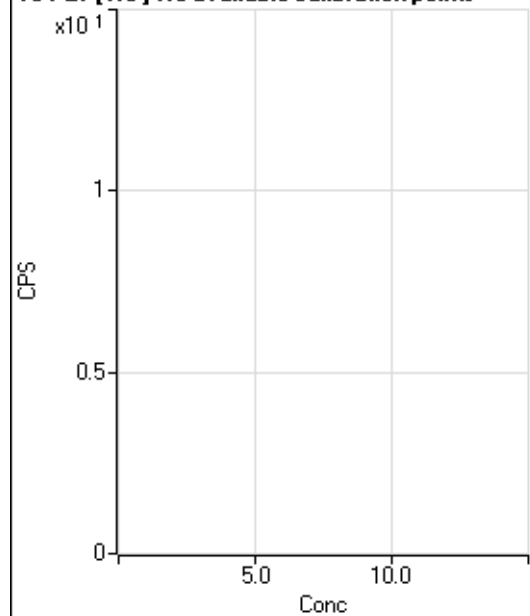
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.78		P	20.4
2	☐						
3	☐			72.23		P	26.7
4	☐			122.23		P	10.4
5	☐			116.67		P	14.3
6	☐			105.56		P	16.4
7	☐			127.78		P	15.1
8	☐			497.26		P	11.9
9	☐			186.12		P	9.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			223.34		P	15.7
2	☐						
3	☐			254.45		P	21.0
4	☐			208.90		P	10.6
5	☐			228.90		P	10.9
6	☐			228.89		P	1.7
7	☐			252.23		P	3.8
8	☐			424.46		P	3.2
9	☐			264.45		P	9.6

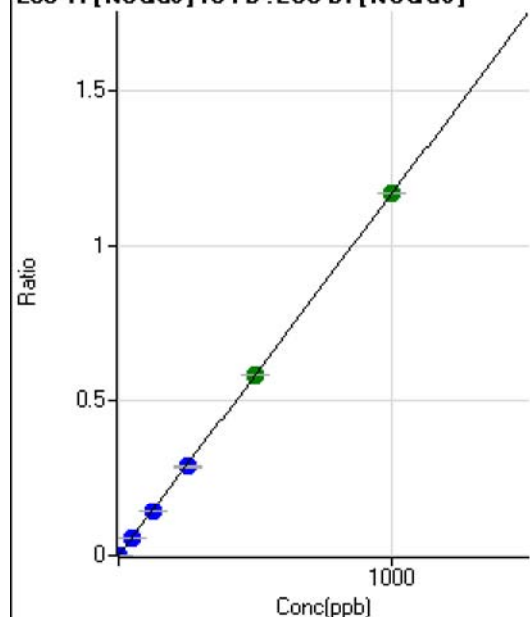
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	95.8
2	☐						
3	☐			58.34		P	24.7
4	☐			41.67		P	20.0
5	☐			47.22		P	87.1
6	☐			58.34		P	28.6
7	☐			38.89		P	12.4
8	☐			222.23		P	8.7
9	☐			69.45		P	70.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26.67		P	33.1
2	☐						
3	☐			28.89		P	6.7
4	☐			31.11		P	55.0
5	☐			16.67		P	52.9
6	☐			22.22		P	22.9
7	☐			38.89		P	54.4
8	☐			148.90		P	24.1
9	☐			41.11		P	58.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	28.9
2	☐	0.100					
3	☐	1.000	0.982	10148.73	0.0012	P	0.7
4	☐	50.000	50.010	508479.03	0.0584	P	0.7
5	☐	125.000	123.808	1259942.52	0.1445	P	0.3
6	☐	250.000	247.053	2464520.67	0.2884	P	1.0
7	☐	500.000	498.639	4884451.15	0.5821	A	0.6
8	☐	1000.000	1001.565	9845718.97	1.1692	A	0.1
9	☐			4809.42	0.0007	P	1.3

$$y = 0.0012 * x + 5.4230E-006$$

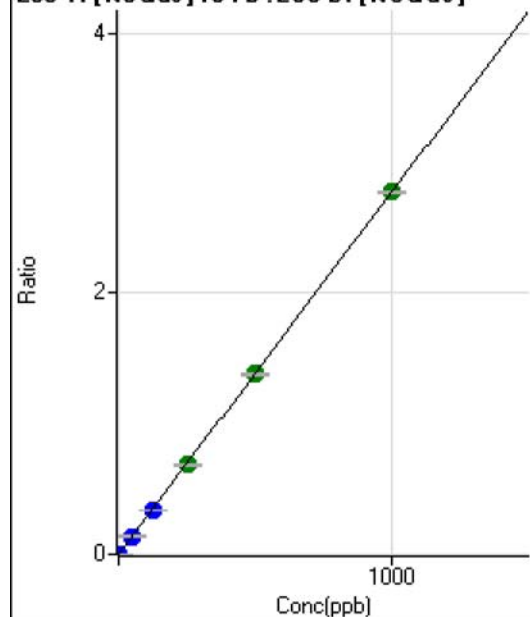
$$R = 1.0000$$

$$DL = 0.004029$$

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	161.12	0.0000	P	26.3
2	☐	0.100					
3	☐	1.000	0.985	24242.37	0.0028	P	2.6
4	☐	50.000	50.139	1211888.49	0.1392	P	1.2
5	☐	125.000	123.652	2991455.92	0.3432	P	0.5
6	☐	250.000	247.418	5867516.93	0.6866	A	0.7
7	☐	500.000	498.170	11600572.31	1.3825	A	1.0
8	☐	1000.000	1001.722	23409492.36	2.7799	A	0.3
9	☐			11410.99	0.0016	P	5.5

$$y = 0.0028 * x + 1.7465E-005$$

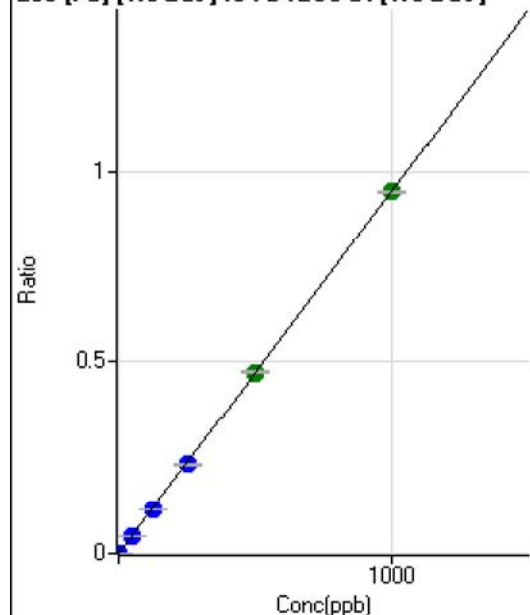
$$R = 1.0000$$

$$DL = 0.004962$$

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	451.88	0.0000	P	9.5
2	☐	0.100					
3	☐	1.000	0.978	8586.33	0.0010	P	2.4
4	☐	50.000	50.006	412861.36	0.0474	P	1.1
5	☐	125.000	124.536	1028579.14	0.1180	P	0.0
6	☐	250.000	247.281	2001672.82	0.2342	P	0.7
7	☐	500.000	500.618	3978858.83	0.4742	A	0.3
8	☐	1000.000	1000.428	7979034.78	0.9475	A	0.6
9	☐			46568.97	0.0066	P	0.9

$$y = 9.4707\text{E-}004 * x + 4.9009\text{E-}005$$

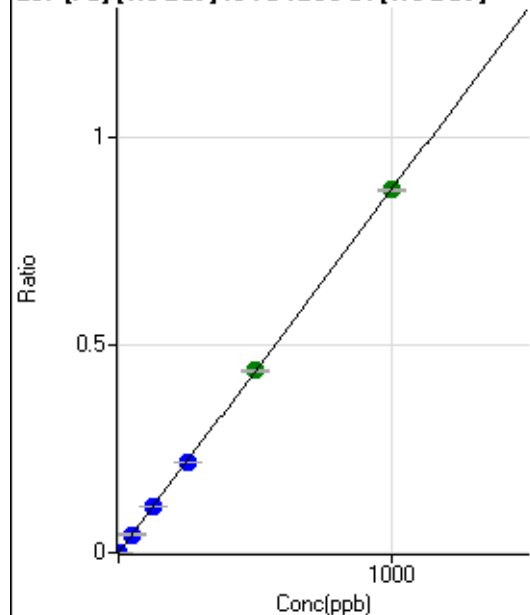
$$R = 1.0000$$

$$DL = 0.01474$$

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	412.98	0.0000	P	8.9
2	☐	0.100					
3	☐	1.000	0.938	7622.74	0.0009	P	3.5
4	☐	50.000	50.240	383068.74	0.0440	P	0.6
5	☐	125.000	124.618	950525.83	0.1090	P	0.1
6	☐	250.000	249.116	1862264.61	0.2179	P	0.3
7	☐	500.000	501.550	3681334.08	0.4387	A	0.5
8	☐	1000.000	999.482	7361786.63	0.8742	A	0.3
9	☐			39891.82	0.0056	P	0.2

$$y = 8.7463\text{E-}004 * x + 4.4780\text{E-}005$$

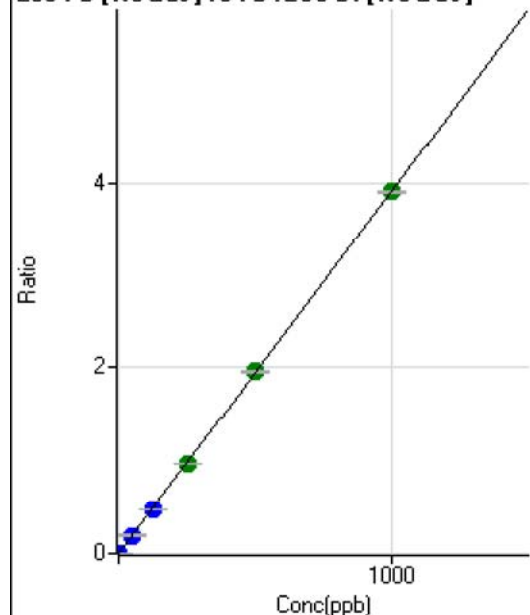
$$R = 1.0000$$

$$DL = 0.01373$$

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	1772.32	0.0002	P	1.0
2	☐	0.100					
3	☐	1.000	0.967	34926.48	0.0040	P	0.9
4	☐	50.000	50.174	1706198.84	0.1959	P	0.8
5	☐	125.000	123.729	4209092.77	0.4828	P	0.3
6	☐	250.000	248.093	8271655.55	0.9680	A	0.3
7	☐	500.000	501.020	16401634.49	1.9546	A	0.3
8	☐	1000.000	1000.117	32854700.39	3.9015	A	0.3
9	☐			184239.87	0.0261	P	0.9

$$y = 0.0039 * x + 1.9220E-004$$

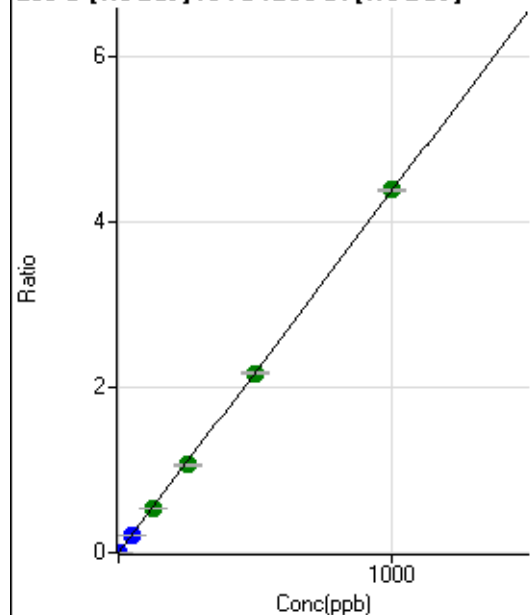
$$R = 1.0000$$

$$DL = 0.001492$$

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	113.89	0.0000	P	29.8
2	☐	0.100					
3	☐	1.000	0.922	35610.99	0.0040	P	1.7
4	☐	50.000	48.067	1829025.06	0.2100	P	1.3
5	☐	125.000	120.042	4572087.91	0.5245	A	0.1
6	☐	250.000	243.022	9073419.13	1.0618	A	0.6
7	☐	500.000	495.558	18168005.96	2.1651	A	1.2
8	☐	1000.000	1004.682	36964145.27	4.3896	A	0.4
9	☐			5040.11	0.0007	P	18.3

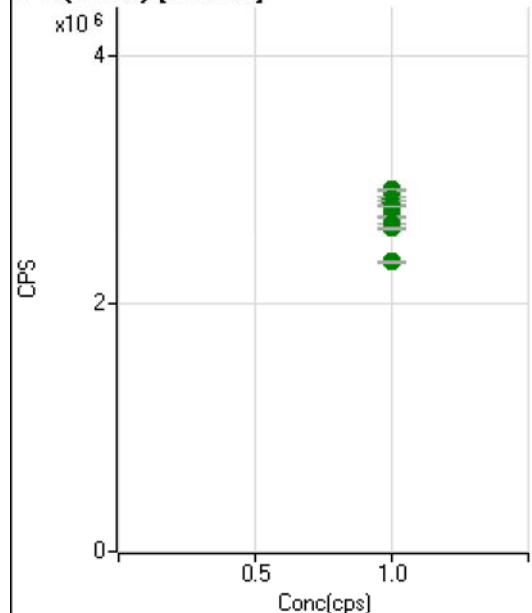
$$y = 0.0044 * x + 1.2357E-005$$

$$R = 1.0000$$

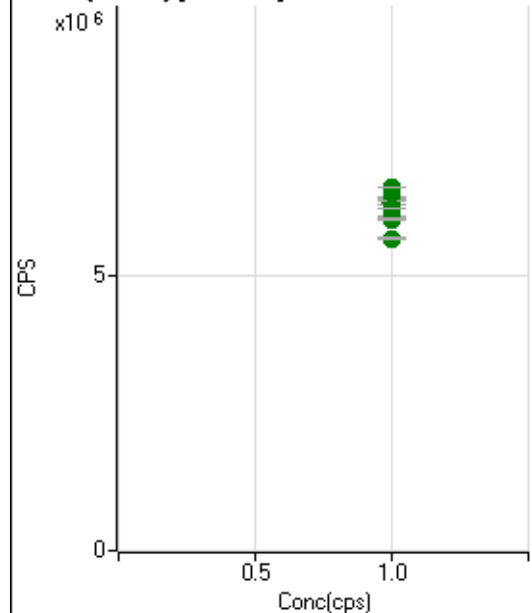
$$DL = 0.002524$$

Weight: <None>

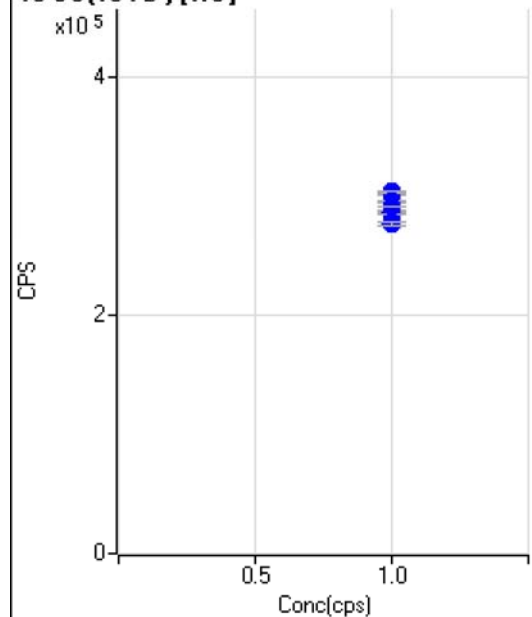
Min Conc: 0

6 Li(ISTD) [No Gas]

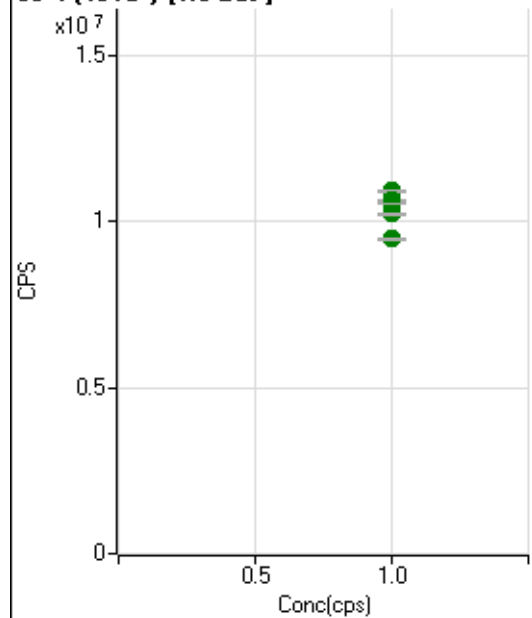
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2930311.52		A	0.4
2	☐	1.000					
3	☐	1.000		2855103.57		A	0.8
4	☐	1.000		2821383.68		A	0.9
5	☐	1.000		2798433.71		A	0.3
6	☐	1.000		2711631.14		A	1.0
7	☐	1.000		2656952.84		A	0.3
8	☐	1.000		2619997.06		A	0.5
9	☐	1.000		2338716.98		A	0.3

45 Sc(ISTD) [No Gas]

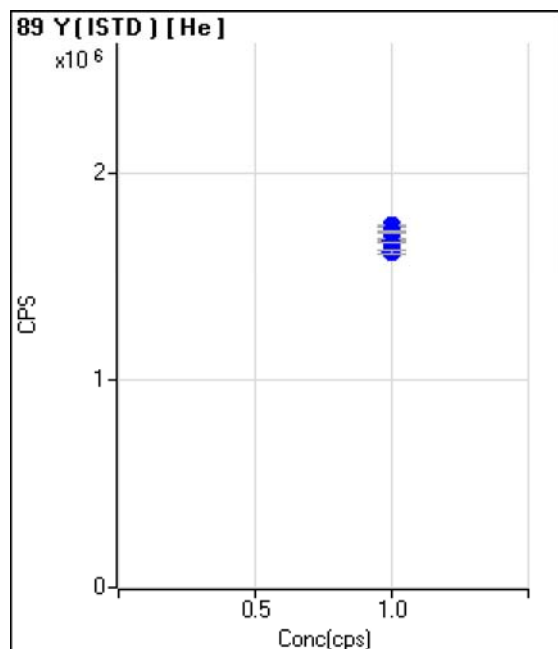
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6585934.35		A	0.0
2	☐	1.000					
3	☐	1.000		6416831.26		A	0.3
4	☐	1.000		6369815.46		A	0.6
5	☐	1.000		6324240.46		A	0.8
6	☐	1.000		6067381.30		A	0.2
7	☐	1.000		6019926.96		A	0.9
8	☐	1.000		6210287.38		A	0.4
9	☐	1.000		5666594.05		A	0.5

45 Sc(ISTD) [He]

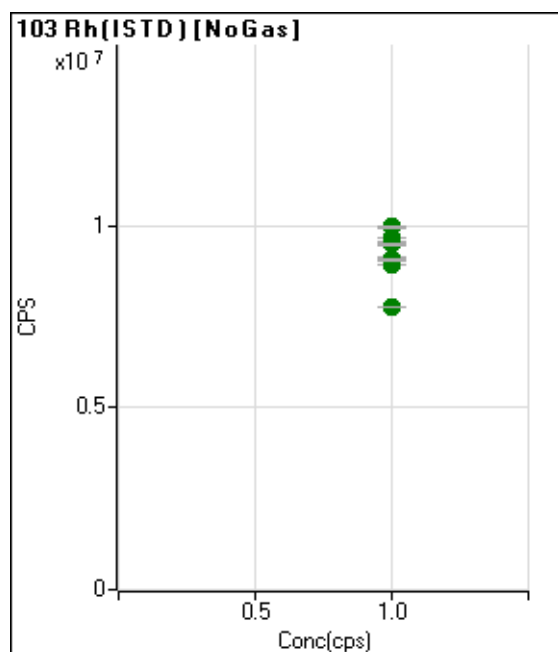
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		302361.81		P	0.4
2	☐	1.000					
3	☐	1.000		304575.79		P	0.5
4	☐	1.000		304108.59		P	0.4
5	☐	1.000		296436.53		P	0.7
6	☐	1.000		286408.76		P	0.4
7	☐	1.000		288060.54		P	1.1
8	☐	1.000		292209.11		P	0.2
9	☐	1.000		277038.06		P	1.2

89 Y(ISTD) [No Gas]

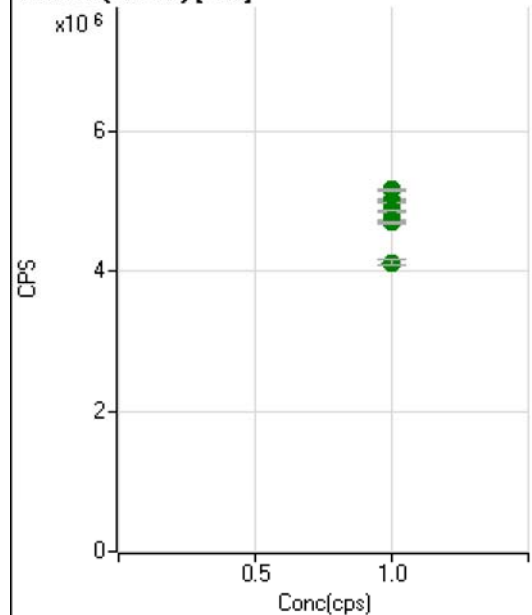
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10922426.09		A	0.8
2	☐	1.000					
3	☐	1.000		10644136.37		A	0.5
4	☐	1.000		10575392.55		A	0.2
5	☐	1.000		10571559.01		A	0.4
6	☐	1.000		10239158.67		A	0.2
7	☐	1.000		10220797.21		A	0.4
8	☐	1.000		10545464.50		A	0.1
9	☐	1.000		9473304.37		A	0.2



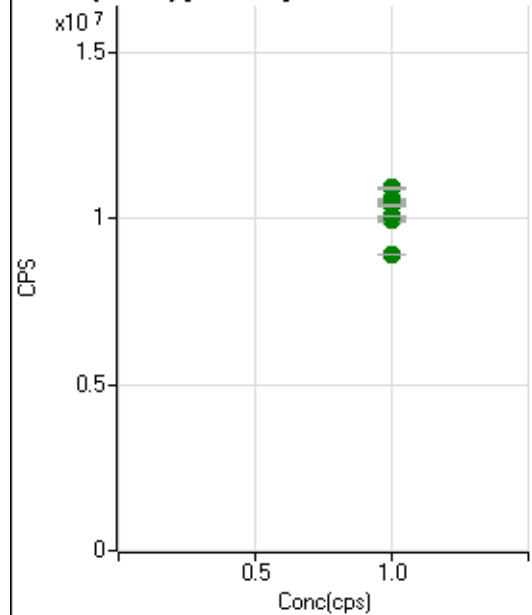
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1720519.50		P	0.2
2	☐	1.000					
3	☐	1.000		1736937.89		P	0.3
4	☐	1.000		1743371.35		P	0.2
5	☐	1.000		1715415.48		P	0.3
6	☐	1.000		1663587.27		P	0.5
7	☐	1.000		1676146.10		P	1.1
8	☐	1.000		1713127.66		P	0.4
9	☐	1.000		1618248.52		P	1.4



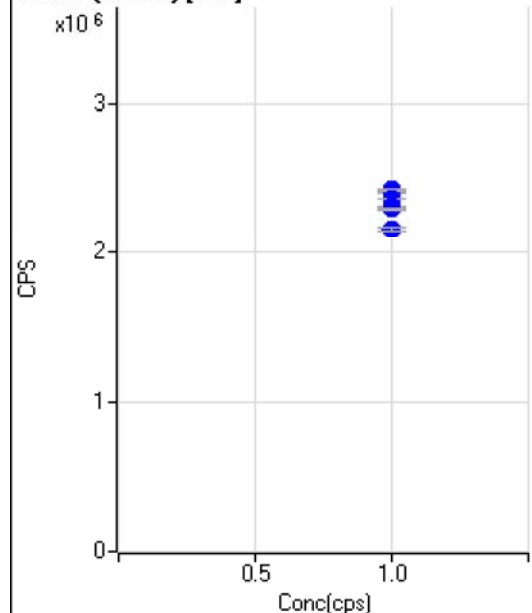
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9979093.28		A	0.4
2	☐	1.000					
3	☐	1.000		9683553.69		A	0.3
4	☐	1.000		9561504.73		A	0.7
5	☐	1.000		9500285.80		A	0.5
6	☐	1.000		9108354.37		A	0.4
7	☐	1.000		8939771.99		A	0.5
8	☐	1.000		9063375.81		A	0.4
9	☐	1.000		7759364.50		A	0.3

103 Rh(ISTD) [He]

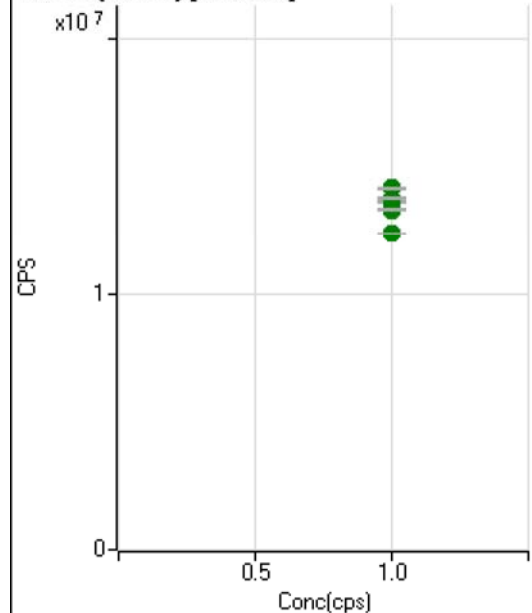
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5166393.64		A	0.5
2	☐	1.000					
3	☐	1.000		5022989.54		A	0.4
4	☐	1.000		4992116.80		A	0.2
5	☐	1.000		4871284.06		A	0.6
6	☐	1.000		4738825.27		A	0.4
7	☐	1.000		4702225.48		A	0.2
8	☐	1.000		4697189.31		A	0.1
9	☐	1.000		4113682.79		A	1.8

115 In(ISTD) [NoGas]

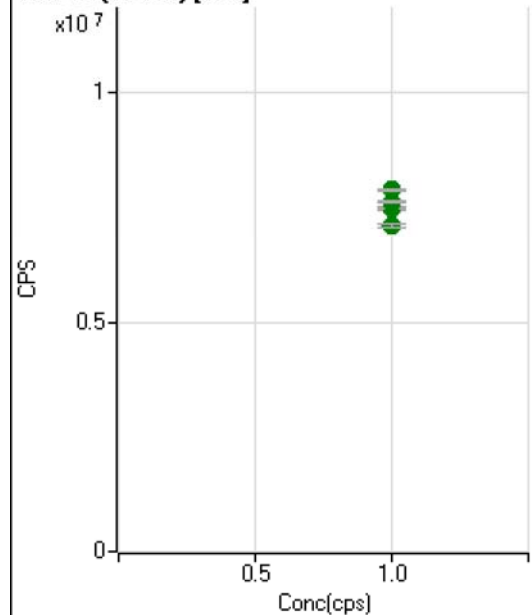
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10922340.03		A	0.4
2	☐	1.000					
3	☐	1.000		10577065.40		A	0.6
4	☐	1.000		10465430.83		A	0.2
5	☐	1.000		10410287.72		A	0.5
6	☐	1.000		10060278.18		A	0.4
7	☐	1.000		9932554.77		A	1.0
8	☐	1.000		10082082.75		A	0.2
9	☐	1.000		8915779.56		A	0.2

115 In(ISTD) [He]

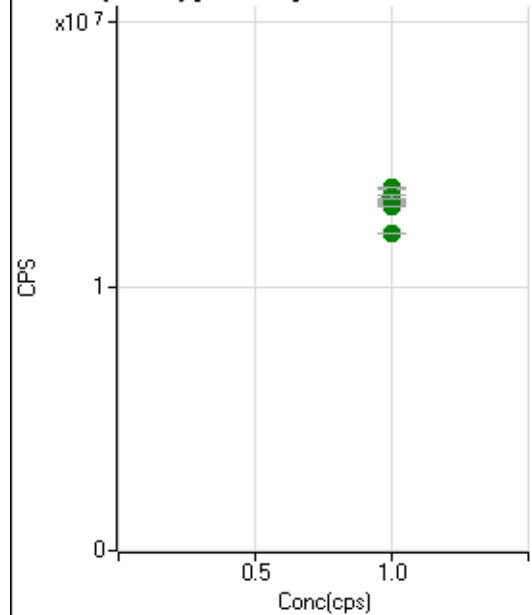
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2406499.15		P	0.6
2	☐	1.000					
3	☐	1.000		2420560.10		P	0.1
4	☐	1.000		2426085.02		P	0.5
5	☐	1.000		2369001.29		P	0.3
6	☐	1.000		2316105.16		P	0.3
7	☐	1.000		2298764.05		P	0.3
8	☐	1.000		2299631.74		P	0.4
9	☐	1.000		2159320.92		P	1.4

159 Tb(ISTD) [NoGas]

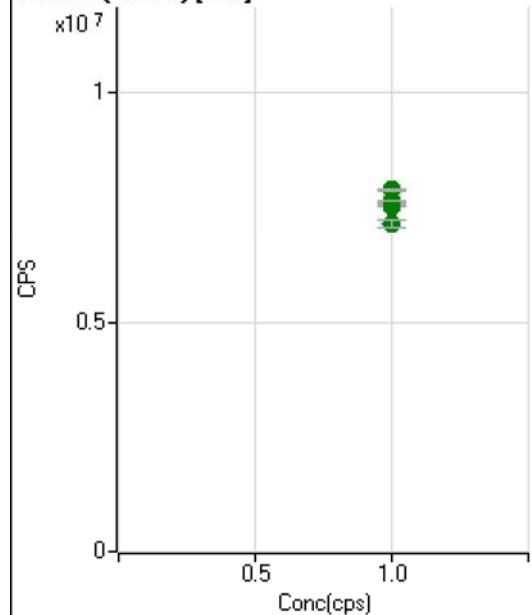
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14176490.90		A	0.3
2	☐	1.000					
3	☐	1.000		13661403.82		A	0.6
4	☐	1.000		13591880.21		A	0.1
5	☐	1.000		13653897.85		A	0.2
6	☐	1.000		13358591.33		A	0.4
7	☐	1.000		13325447.30		A	0.8
8	☐	1.000		13776162.29		A	0.4
9	☐	1.000		12399262.73		A	0.3

159 Tb(ISTD) [He]

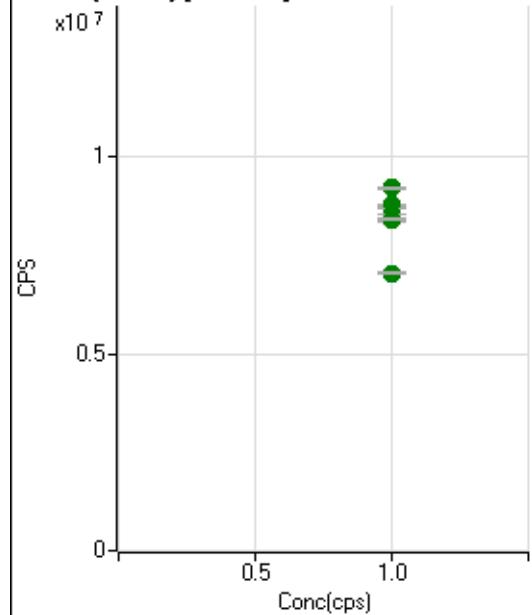
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7908678.15		A	0.6
2	☐	1.000					
3	☐	1.000		7648029.75		A	0.3
4	☐	1.000		7638935.51		A	0.6
5	☐	1.000		7557657.39		A	0.2
6	☐	1.000		7483263.29		A	0.4
7	☐	1.000		7517486.07		A	0.5
8	☐	1.000		7647280.23		A	0.3
9	☐	1.000		7121278.44		A	1.2

165 Ho(ISTD) [NoGas]

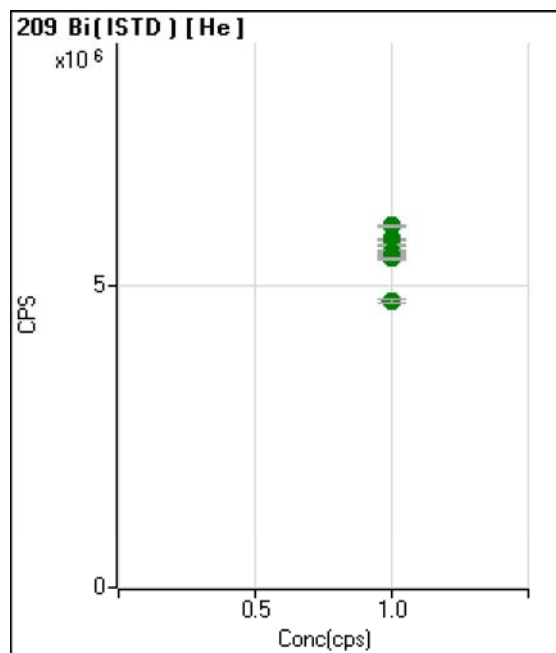
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13730465.24		A	0.6
2	☐	1.000					
3	☐	1.000		13274455.33		A	0.6
4	☐	1.000		13203577.99		A	0.6
5	☐	1.000		13292929.29		A	0.5
6	☐	1.000		13070686.57		A	0.5
7	☐	1.000		13020430.67		A	0.4
8	☐	1.000		13389140.40		A	1.1
9	☐	1.000		12034789.68		A	0.0

165 Ho(ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7907057.45		A	0.6
2	☐	1.000					
3	☐	1.000		7665708.01		A	0.5
4	☐	1.000		7644463.36		A	0.6
5	☐	1.000		7601511.07		A	0.4
6	☐	1.000		7535102.74		A	0.3
7	☐	1.000		7584929.26		A	0.4
8	☐	1.000		7664495.44		A	0.4
9	☐	1.000		7163402.74		A	2.0

209 Bi(ISTD) [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9221341.25		A	0.2
2	☐	1.000					
3	☐	1.000		8808514.94		A	0.2
4	☐	1.000		8709091.54		A	0.8
5	☐	1.000		8717263.00		A	0.1
6	☐	1.000		8545312.23		A	0.2
7	☐	1.000		8391308.14		A	0.6
8	☐	1.000		8420985.64		A	0.4
9	☐	1.000		7061903.37		A	0.4



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6022203.87		A	0.5
2	☐	1.000					
3	☐	1.000		5803226.65		A	0.1
4	☐	1.000		5766720.68		A	0.1
5	☐	1.000		5700532.62		A	0.3
6	☐	1.000		5601675.06		A	0.2
7	☐	1.000		5527429.29		A	0.6
8	☐	1.000		5476445.06		A	0.3
9	☐	1.000		4748861.84		A	1.4

US EPA Tune Check Sample Report

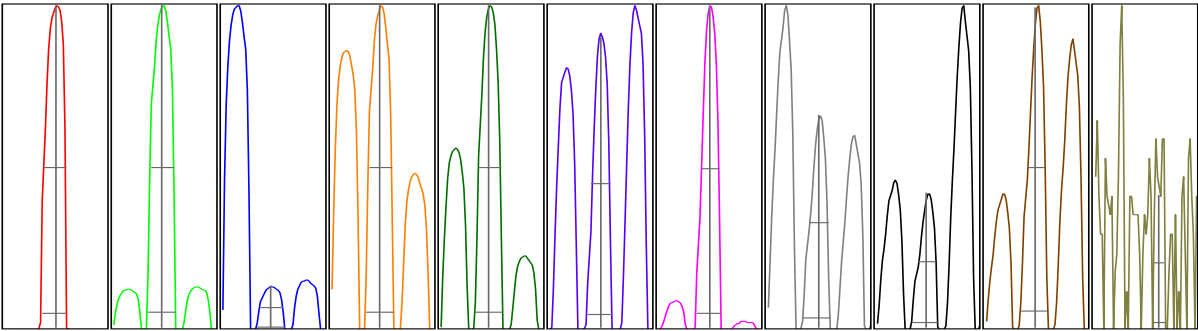
Batch Folder D:\ICP-MS Data\P7080118-MS .b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	11373	1.41	5.00	
24	517434	0.96	5.00	
25	67354	1.17	5.00	
26	76916	1.06	5.00	
59	88361	0.70	5.00	
113	11909	0.83	5.00	
115	149055	2.00	5.00	
206	35580	1.35	5.00	
207	32184	1.08	5.00	
208	76387	1.29	5.00	
220	0	45.80		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	11143	11272	11454	11465	11529
24	510471	513850	521010	520368	521472
25	66234	66833	67737	68068	67897
26	75678	76575	77166	77405	77754
59	87519	87925	88569	88914	88877
113	12036	11941	11952	11811	11806
115	152873	150621	149532	146852	145396
206	34969	35246	35601	35979	36108
207	31744	31885	32334	32420	32535
208	75169	75661	76483	77008	77611
220	0	0	1	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	18520	9.05	8.9 - 9.1		0.742	0.900	
24	800951	23.95	23.9 - 24.1		0.829	0.900	
25	105015	24.95	24.9 - 25.1		0.827	0.900	
26	122037	25.95	25.9 - 26.1		0.828	0.900	
59	149495	58.95	58.9 - 59.1		0.810	0.900	
113	23221	113.05	112.9 - 113.1		0.729	0.900	
115	289249	115.05	114.9 - 115.1		0.730	0.900	
206	69239	206.05	205.9 - 206.1		0.784	0.900	
207	62664	207.00	206.9 - 207.1		0.751	0.900	
208	149082	208.00	207.9 - 208.1		0.801	0.900	
220	0	220.40	-		0.345		

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	8.1	V	Deflect	15.0	V
Extract 2	-125.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-60	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	24192	0.28	
89	46677	0.42	
205	34674	0.53	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	24201	24072	24227	24241	24219
89	46549	46428	46767	46937	46703
205	34749	34402	34801	34841	34577

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	8.8	V	Deflect	2.4	V
Extract 2	-115.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-60	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	200	V			