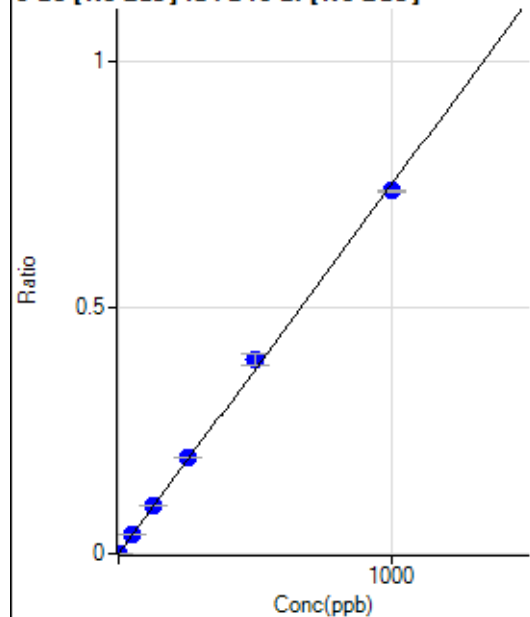


Batch Folder: D:\ICP-MS Data\P7072518MS.b\
Analysis File: P7072518MS.batch.bin
DA Date-Time: 2018-07-26 10:46:34
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-07-25 21:43:22
2			
3	005CAL.S.d	S02	2018-07-25 21:51:46
4	006CAL.S.d	S03	2018-07-25 21:55:38
5	007CAL.S.d	S04	2018-07-25 21:59:46
6	008CAL.S.d	S05	2018-07-25 22:03:33
7	009CAL.S.d	S06	2018-07-25 22:07:18
8	010CAL.S.d	S07	2018-07-25 22:11:01
9	011CAL.S.d	S08	2018-07-25 22:14:45

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.74	0.0000	P	15.7
2	☐	0.100					
3	☐	1.000	1.064	2654.00	0.0008	P	1.1
4	☐	50.000	52.833	129024.62	0.0396	P	1.9
5	☐	125.000	130.366	313312.11	0.0978	P	1.8
6	☐	250.000	259.998	602033.55	0.1950	P	0.5
7	☐	500.000	526.211	1160016.56	0.3947	P	5.2
8	☐	1000.000	983.582	2146652.04	0.7377	P	0.4
9	☐			605.58	0.0002	P	10.3

$$y = 7.5002\text{E-}004 * x + 1.2362\text{E-}005$$

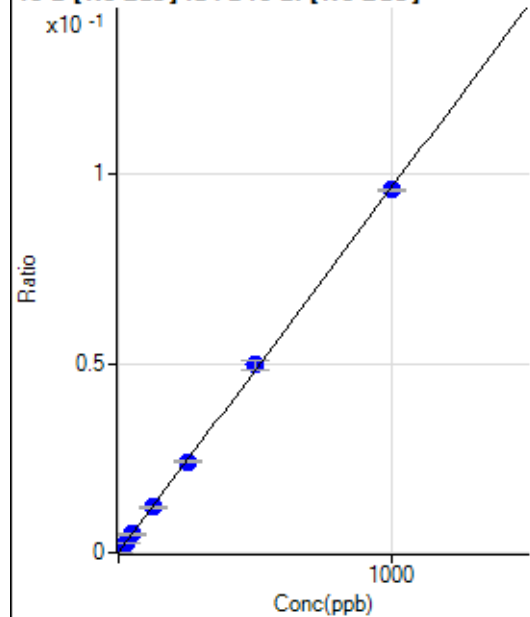
$$R = 0.9994$$

$$DL = 0.007758$$

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	230.56	0.0001	P	23.4
2	☐	2.500					
3	☐	25.000	24.987	8121.95	0.0025	P	4.6
4	☐	50.000	49.395	15733.80	0.0048	P	3.6
5	☐	125.000	123.367	38335.66	0.0120	P	3.3
6	☐	250.000	248.708	74248.90	0.0241	P	2.0
7	☐	500.000	513.493	145780.33	0.0496	P	4.3
8	☐	1000.000	993.811	279062.54	0.0959	P	0.6
9	☐			10737.60	0.0037	P	8.0

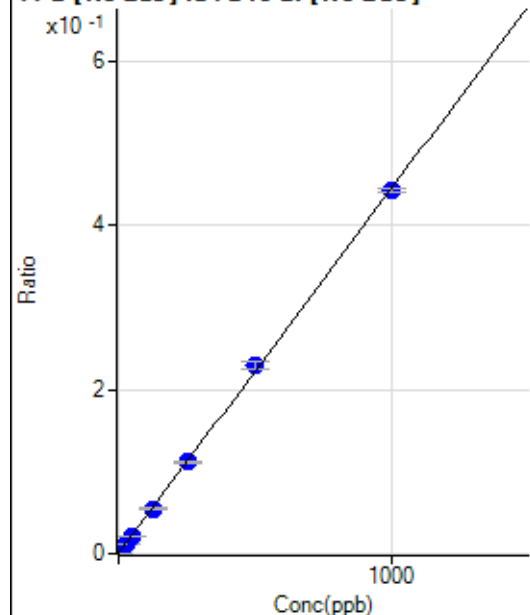
$$y = 9.6429\text{E-}005 * x + 6.9982\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.5104$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1266.77	0.0004	P	9.7
2	☐	2.500					
3	☐	25.000	24.346	36701.13	0.0112	P	2.9
4	☐	50.000	48.822	71882.85	0.0221	P	1.0
5	☐	125.000	122.982	176339.42	0.0550	P	2.3
6	☐	250.000	249.731	343805.21	0.1114	P	1.2
7	☐	500.000	513.920	672745.30	0.2288	P	3.8
8	☐	1000.000	993.435	1285785.24	0.4419	P	1.1
9	☐			48899.94	0.0169	P	9.7

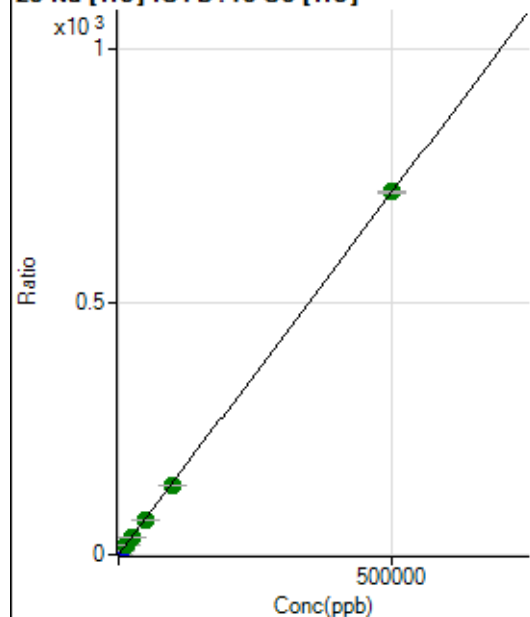
$$y = 4.4443\text{E-}004 * x + 3.8432\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.251$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9428.33	0.0284	P	2.9
2	☐	50.000					
3	☐	500.000	495.331	248481.59	0.7376	P	0.6
4	☐	5000.000	4882.719	2282802.48	7.0193	P	0.7
5	☐	12500.000	12198.111	5507354.64	17.4932	A	0.4
6	☐	25000.000	24285.823	10761791.13	34.7999	A	1.2
7	☐	50000.000	47669.251	21314829.47	68.2793	A	0.3
8	☐	100000.00	94565.381	42414669.70	135.4233	A	0.0
9	☐	500000.00	501364.43	237847266.4	717.8616	A	0.7

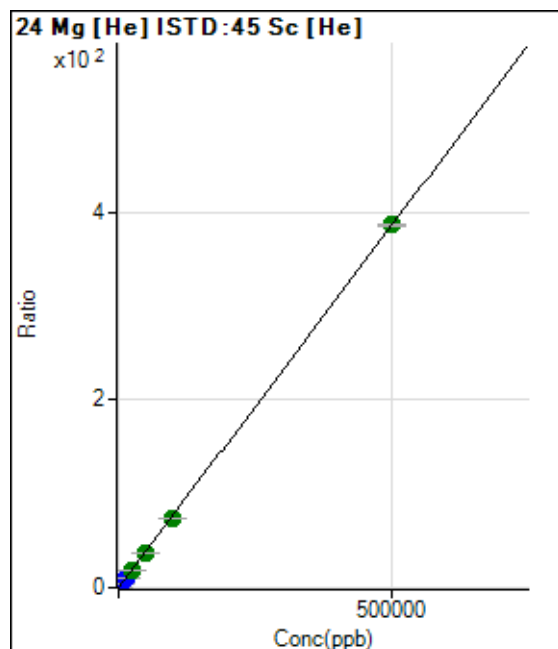
$$y = 0.0014 * x + 0.0284$$

$$R = 0.9999$$

$$DL = 1.754$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.01	0.0004	P	29.0
2	☐	50.000					
3	☐	500.000	490.724	127701.38	0.3791	P	0.9
4	☐	5000.000	5005.881	1256500.55	3.8635	P	0.5
5	☐	12500.000	12405.784	3014195.21	9.5741	P	0.6
6	☐	25000.000	24703.895	5895615.15	19.0648	A	1.6
7	☐	50000.000	48472.216	11677440.54	37.4072	A	0.3
8	☐	100000.00	95587.870	23103845.66	73.7671	A	0.1
9	☐	500000.00	501052.31	128111276.4	386.6708	A	0.7

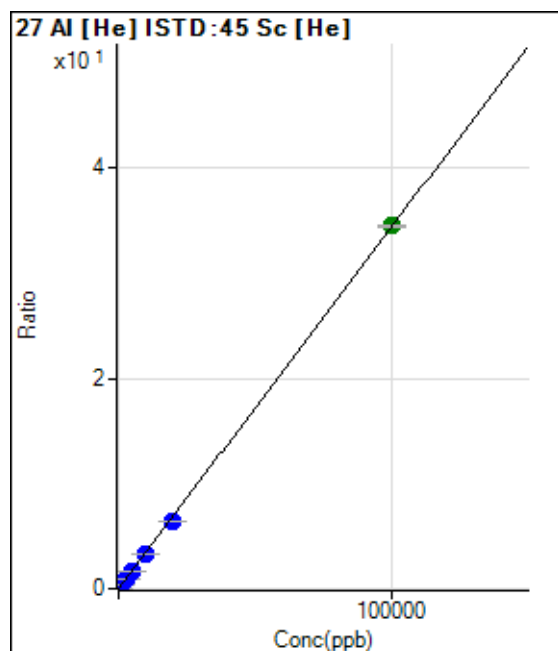
$$y = 7.7172\text{E-}004 * x + 3.7668\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.4246$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0003	P	38.0
2	☐	2.000					
3	☐	20.000	20.974	2530.87	0.0075	P	5.2
4	☐	1000.000	977.907	109470.78	0.3366	P	0.4
5	☐	2500.000	2451.537	265519.40	0.8434	P	0.7
6	☐	5000.000	4850.489	515921.03	1.6684	P	1.5
7	☐	10000.000	9467.658	1016471.24	3.2562	P	0.1
8	☐	20000.000	18610.984	2004599.59	6.4005	P	0.6
9	☐	100000.00	100339.94	11432766.84	34.5066	A	0.4

$$y = 3.4389\text{E-}004 * x + 3.0129\text{E-}004$$

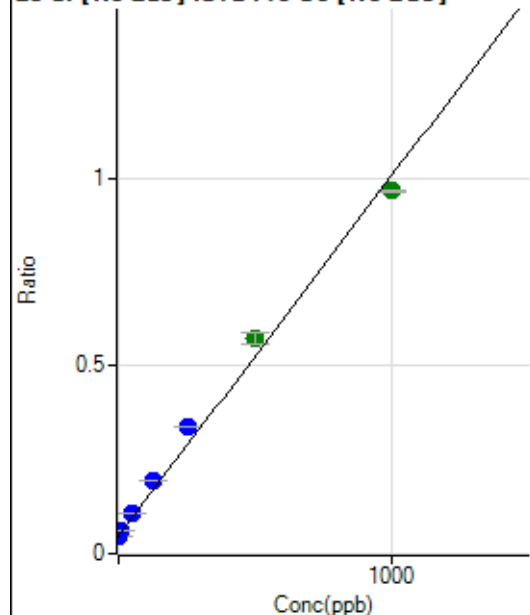
$$R = 0.9999$$

$$DL = 0.9997$$

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	347221.10	0.0474	P	1.6
2	☐	1.000					
3	☐	10.000	15.832	455072.27	0.0626	P	0.7
4	☐	50.000	62.297	766502.78	0.1072	P	1.0
5	☐	125.000	152.942	1352589.98	0.1941	P	1.8
6	☐	250.000	303.228	2298902.87	0.3383	P	1.4
7	☐	500.000	547.777	3797926.87	0.5728	A	5.6
8	☐	1000.000	958.639	6538789.08	0.9670	A	0.7
9	☐			900010.85	0.1299	P	2.2

$$y = 9.5923\text{E-}004 * x + 0.0474$$

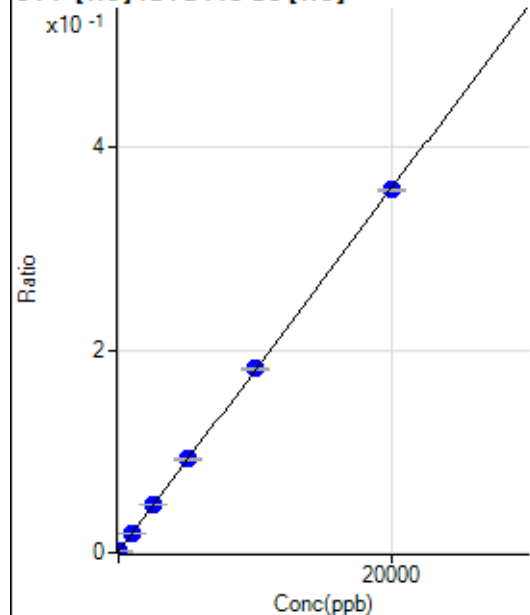
$$R = 0.9965$$

$$DL = 2.444$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-6.339	258.34	0.0008	P	19.7
2	☐	0.000					
3	☐	0.000	6.339	338.91	0.0010	P	8.8
4	☐	1000.000	1003.965	6148.76	0.0189	P	4.2
5	☐	2500.000	2615.284	15052.53	0.0478	P	1.0
6	☐	5000.000	5086.941	28500.32	0.0921	P	0.9
7	☐	10000.000	10091.905	56794.99	0.1819	P	0.9
8	☐	20000.000	19917.703	112188.60	0.3582	P	0.7
9	☐			380.58	0.0011	P	11.4

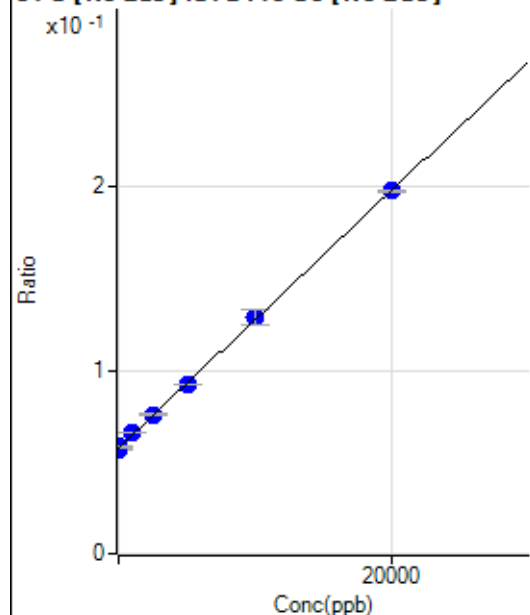
$$y = 1.7940\text{E-}005 * x + 8.9236\text{E-}004$$

$$R = 1.0000$$

$$DL = 20.18$$

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	-79.186	418537.74	0.0571	P	0.7
2	☐	0.000					
3	☐	0.000	79.186	423512.80	0.0582	P	0.7
4	☐	1000.000	1179.089	471942.04	0.0660	P	0.2
5	☐	2500.000	2591.849	528913.35	0.0759	P	1.9
6	☐	5000.000	4901.789	626184.96	0.0921	P	0.4
7	☐	10000.000	10103.995	852988.67	0.1287	P	6.5
8	☐	20000.000	19952.120	1338228.57	0.1979	P	0.6
9	☐			344844.05	0.0498	P	1.4

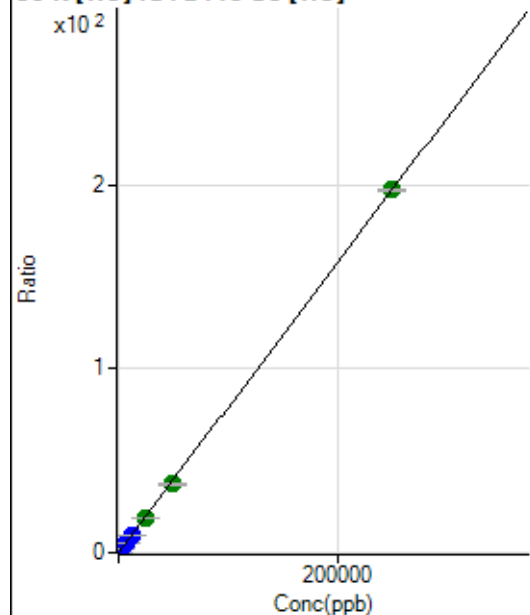
$$y = 7.0280\text{E-}006 * x + 0.0577$$

$$R = 0.9999$$

$$DL = 170.3$$

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	27955.01	0.0843	P	0.8
2	☐	50.000					
3	☐	500.000	486.270	157265.77	0.4668	P	0.2
4	☐	2500.000	2406.599	643169.71	1.9776	P	0.5
5	☐	6250.000	5982.587	1508370.99	4.7910	P	0.3
6	☐	12500.000	11871.005	2914317.75	9.4237	P	1.0
7	☐	25000.000	23646.649	5833844.71	18.6881	A	0.1
8	☐	50000.000	47142.660	11642680.30	37.1734	A	0.2
9	☐	250000.00	250745.90	65388895.91	197.3570	A	0.8

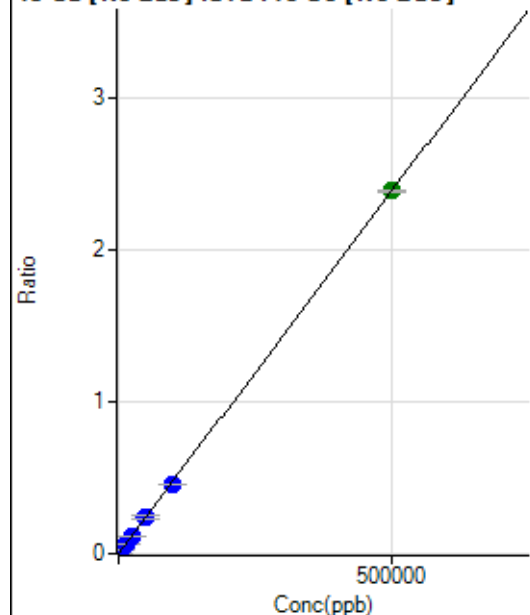
$$y = 7.8674\text{E-}004 * x + 0.0843$$

$$R = 0.9999$$

$$DL = 2.518$$

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	488.92	0.0001	P	9.3
2	☐	50.000					
3	☐	500.000	472.614	16890.89	0.0023	P	1.7
4	☐	5000.000	4922.837	168580.53	0.0236	P	1.2
5	☐	12500.000	12352.966	411408.74	0.0590	P	1.4
6	☐	25000.000	24731.861	802849.42	0.1181	P	1.1
7	☐	50000.000	50568.770	1600660.20	0.2415	P	6.1
8	☐	100000.00	96346.113	3110727.74	0.4600	P	0.6
9	☐	500000.00	500691.78	16566369.47	2.3902	A	0.6

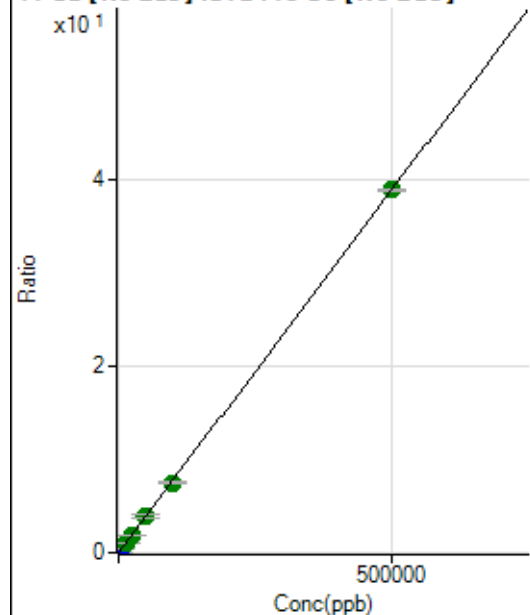
$$y = 4.7737\text{E-}006 * x + 6.6731\text{E-}005$$

$$R = 1.0000$$

$$DL = 3.88$$

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	10521.25	0.0014	P	1.1
2	☐	50.000					
3	☐	500.000	481.193	281925.09	0.0388	P	0.8
4	☐	5000.000	4877.382	2717291.23	0.3799	P	0.7
5	☐	12500.000	12191.446	6601186.17	0.9473	A	2.2
6	☐	25000.000	24572.639	12967159.49	1.9080	A	0.1
7	☐	50000.000	50452.127	25958045.20	3.9159	A	6.1
8	☐	100000.00	96667.098	50729700.09	7.5016	A	0.6
9	☐	500000.00	500651.69	269236125.4	38.8459	A	0.6

$$y = 7.7588\text{E-}005 * x + 0.0014$$

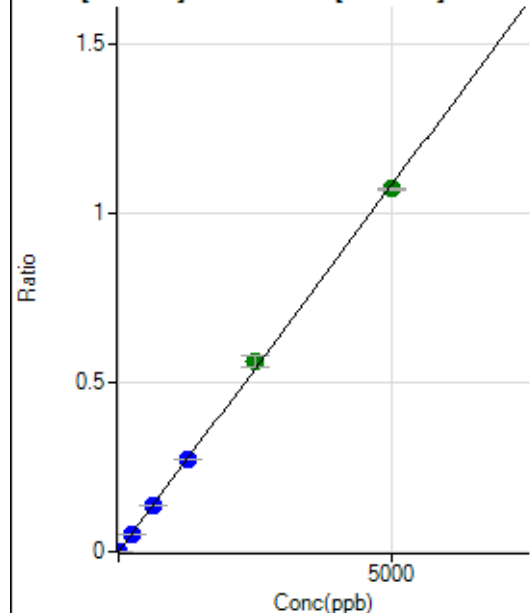
$$R = 1.0000$$

$$DL = 0.61$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	111.12	0.0000	P	19.0
2	☐	0.500					
3	☐	5.000	5.078	8099.77	0.0011	P	1.8
4	☐	250.000	248.615	384957.34	0.0538	P	0.4
5	☐	625.000	627.470	946284.37	0.1358	P	1.8
6	☐	1250.000	1261.049	1854705.86	0.2729	P	0.3
7	☐	2500.000	2593.834	3720683.16	0.5613	A	6.2
8	☐	5000.000	4950.081	7243853.55	1.0712	A	0.5
9	☐			4542.55	0.0007	P	4.4

$$y = 2.1640\text{E-}004 * x + 1.5169\text{E-}005$$

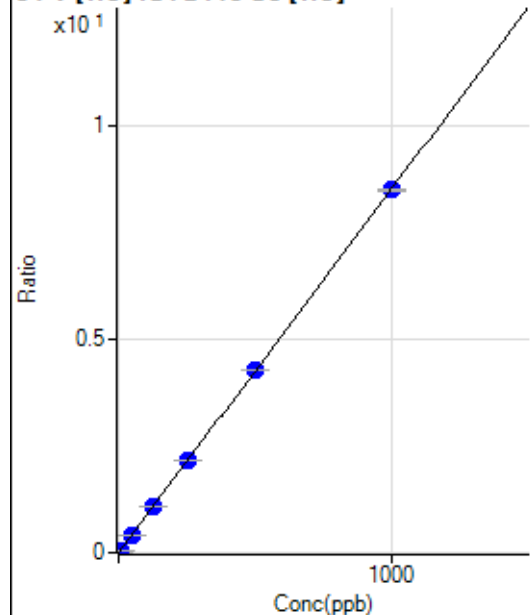
$$R = 0.9997$$

$$DL = 0.03986$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.7
2	☐	0.500					
3	☐	5.000	4.966	14243.73	0.0423	P	1.4
4	☐	50.000	50.006	138429.66	0.4257	P	0.7
5	☐	125.000	126.163	338094.78	1.0739	P	0.0
6	☐	250.000	253.186	666449.45	2.1551	P	1.2
7	☐	500.000	502.434	1335010.83	4.2766	P	0.1
8	☐	1000.000	997.841	2660082.72	8.4934	P	0.5
9	☐			1258.96	0.0038	P	6.5

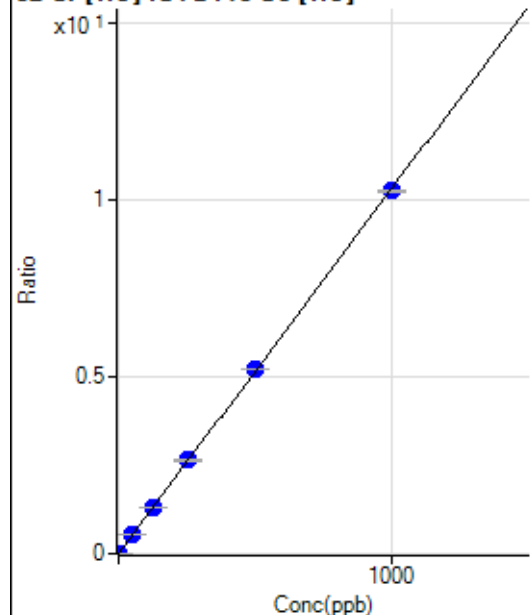
$$y = 0.0085 * x + 1.6745\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.002046$$

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	641.14	0.0019	P	13.8
2	☐	0.200					
3	☐	2.000	2.187	8254.66	0.0245	P	0.7
4	☐	50.000	50.898	171474.15	0.5273	P	0.7
5	☐	125.000	128.207	417205.92	1.3252	P	0.2
6	☐	250.000	256.359	818847.63	2.6478	P	1.0
7	☐	500.000	506.617	1632872.33	5.2307	P	0.3
8	☐	1000.000	994.656	3215849.05	10.2678	P	0.6
9	☐			124313.02	0.3752	P	1.0

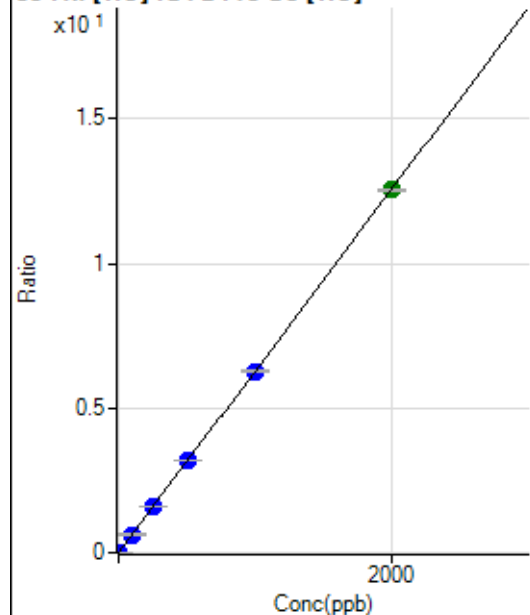
$$y = 0.0103 * x + 0.0019$$

$$R = 0.9999$$

$$DL = 0.07748$$

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	74.44	0.0002	P	18.5
2	☐	0.100					
3	☐	1.000	1.085	2372.45	0.0070	P	3.0
4	☐	100.000	100.444	205296.31	0.6313	P	0.6
5	☐	250.000	252.924	500334.02	1.5892	P	0.2
6	☐	500.000	507.295	985662.28	3.1873	P	1.1
7	☐	1000.000	1000.491	1962184.17	6.2857	P	0.8
8	☐	2000.000	1997.543	3930541.16	12.5496	A	0.5
9	☐			21116.45	0.0637	P	1.9

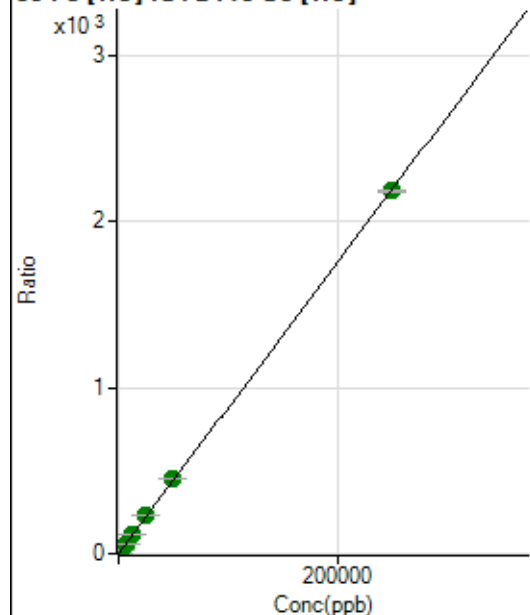
$$y = 0.0063 * x + 2.2432E-004$$

$$R = 1.0000$$

$$DL = 0.01979$$

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	4975.05	0.0150	P	3.2
2	☐	5.000					
3	☐	50.000	51.720	157598.78	0.4678	P	0.8
4	☐	2500.000	2570.971	7325598.66	22.5250	A	0.6
5	☐	6250.000	6502.538	17928933.50	56.9477	A	0.2
6	☐	12500.000	13032.192	35291189.68	114.1178	A	1.1
7	☐	25000.000	25887.907	70760182.60	226.6755	A	0.3
8	☐	50000.000	51386.447	140916678.1	449.9270	A	0.5
9	☐	250000.00	249600.28	724044653.2	2,185.380	A	0.5

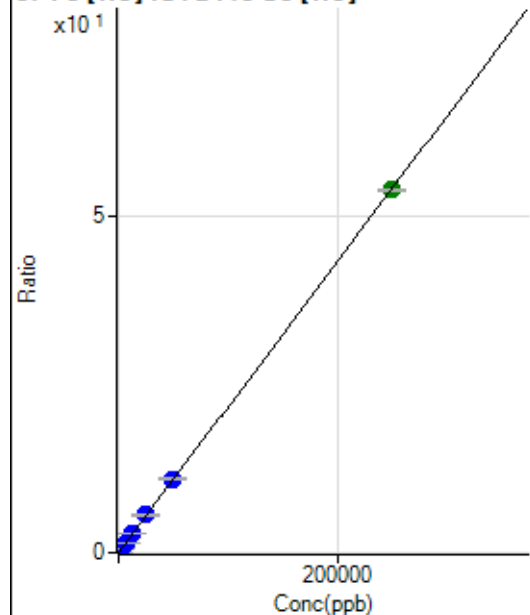
$$y = 0.0088 * x + 0.0150$$

$$R = 1.0000$$

$$DL = 0.1666$$

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	335.20	0.0010	P	18.5
2	☐	5.000					
3	☐	50.000	51.712	4104.39	0.0122	P	1.6
4	☐	2500.000	2598.406	182930.36	0.5625	P	0.4
5	☐	6250.000	6551.273	445995.51	1.4166	P	0.3
6	☐	12500.000	13130.090	877712.65	2.8382	P	1.1
7	☐	25000.000	25817.753	1741812.80	5.5797	P	0.1
8	☐	50000.000	50891.602	3444422.65	10.9977	P	0.6
9	☐	250000.00	249699.88	17876636.05	53.9564	A	0.4

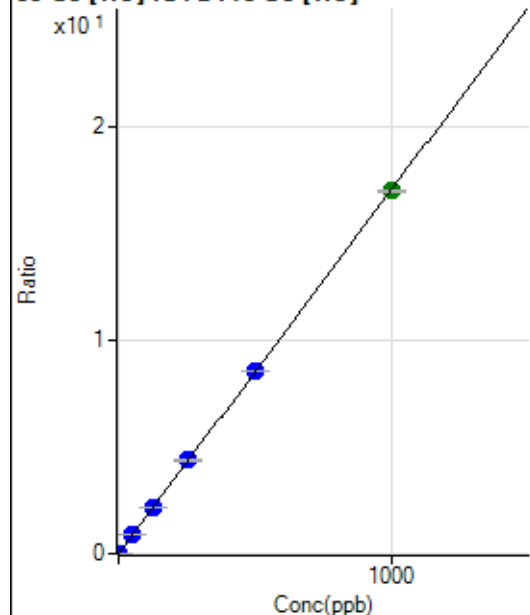
$$y = 2.1608E-004 * x + 0.0010$$

$$R = 1.0000$$

$$DL = 2.596$$

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	60.00	0.0002	P	49.4
2	☐	0.100					
3	☐	1.000	1.039	6028.00	0.0179	P	2.3
4	☐	50.000	51.351	284785.32	0.8756	P	0.0
5	☐	125.000	128.610	690363.66	2.1928	P	0.1
6	☐	250.000	256.260	1351133.24	4.3691	P	1.1
7	☐	500.000	502.647	2675139.87	8.5696	P	0.2
8	☐	1000.000	996.593	5321403.91	16.9907	A	0.5
9	☐			67800.13	0.2047	P	1.3

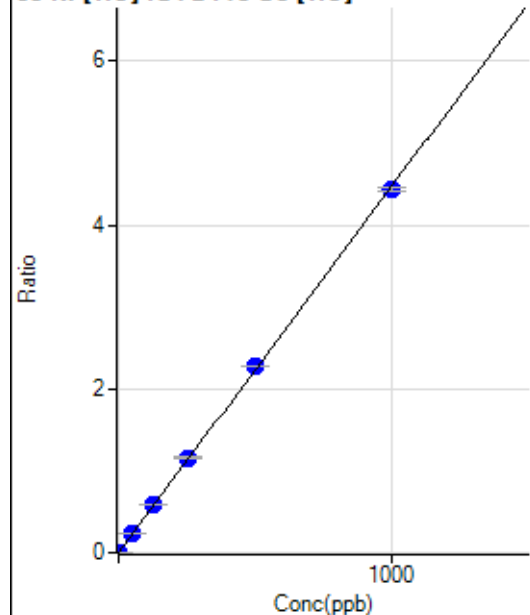
$$y = 0.0170 * x + 1.8089E-004$$

$$R = 1.0000$$

$$DL = 0.01574$$

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	61.11	0.0002	P	33.0
2	☐	0.100					
3	☐	1.000	1.083	1692.35	0.0050	P	10.3
4	☐	50.000	52.575	76481.42	0.2352	P	0.8
5	☐	125.000	130.329	183449.79	0.5827	P	0.7
6	☐	250.000	259.570	358855.37	1.1604	P	0.6
7	☐	500.000	511.246	713377.96	2.2852	P	0.2
8	☐	1000.000	991.190	1387572.15	4.4304	P	1.0
9	☐			44206.59	0.1334	P	1.7

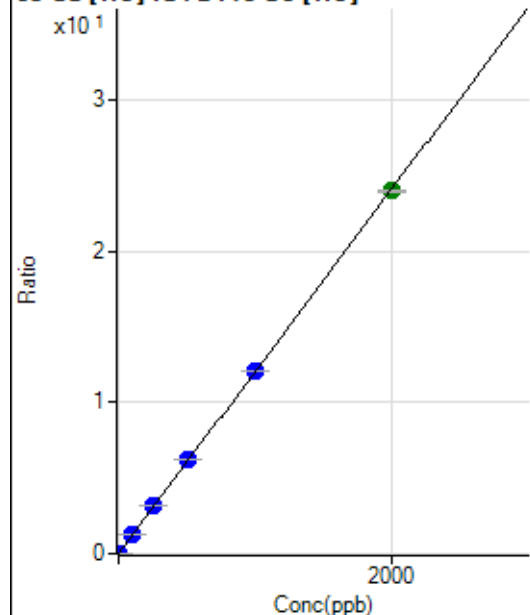
$$y = 0.0045 * x + 1.8423E-004$$

$$R = 0.9999$$

$$DL = 0.04077$$

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	1275.63	0.0038	P	3.5
2	☐	0.200					
3	☐	2.000	2.083	9746.71	0.0289	P	3.1
4	☐	100.000	103.831	408098.98	1.2548	P	0.5
5	☐	250.000	260.889	990802.01	3.1471	P	0.4
6	☐	500.000	516.402	1925295.53	6.2256	P	0.9
7	☐	1000.000	1005.433	3782689.32	12.1175	P	0.5
8	☐	2000.000	1991.630	7516594.06	23.9995	A	0.5
9	☐			18744.41	0.0566	P	0.4

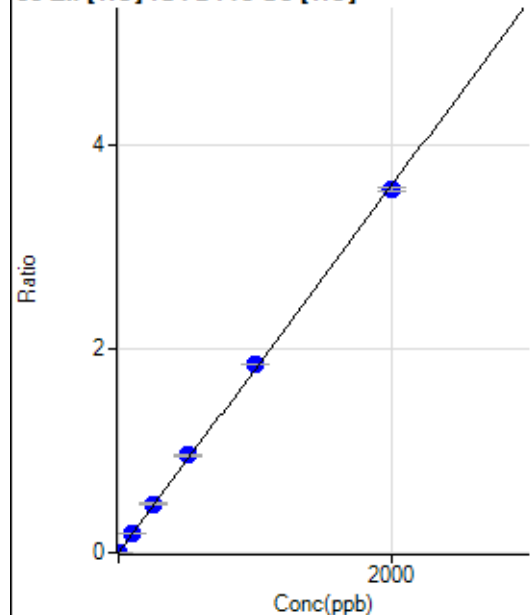
$$y = 0.0120 * x + 0.0038$$

$$R = 1.0000$$

$$DL = 0.0337$$

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	382.23	0.0012	P	8.5
2	☐	0.200					
3	☐	2.000	2.326	1796.81	0.0053	P	5.2
4	☐	100.000	104.899	61696.28	0.1897	P	1.2
5	☐	250.000	266.435	151139.28	0.4801	P	0.7
6	☐	500.000	529.115	294475.42	0.9522	P	1.4
7	☐	1000.000	1027.493	576910.79	1.8481	P	0.4
8	☐	2000.000	1976.675	1113174.85	3.5543	P	0.9
9	☐			7893.37	0.0238	P	1.4

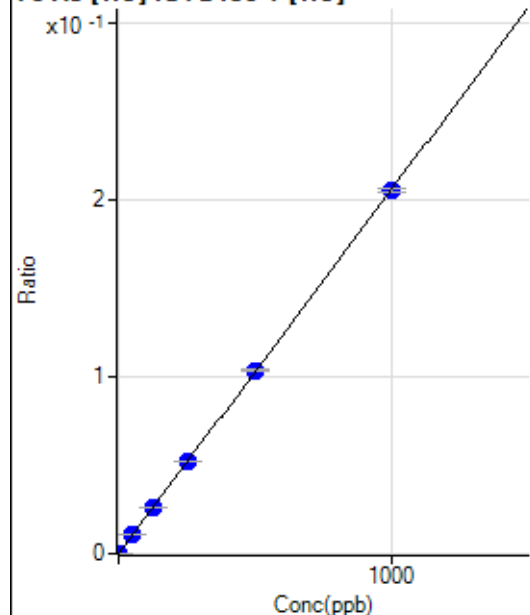
$$y = 0.0018 * x + 0.0012$$

$$R = 0.9997$$

$$DL = 0.163$$

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	7.41	0.0000	P	24.7
2	☐	0.100					
3	☐	1.000	1.063	434.58	0.0002	P	5.1
4	☐	50.000	50.987	20203.61	0.0105	P	1.8
5	☐	125.000	128.482	50117.96	0.0265	P	1.2
6	☐	250.000	255.260	98633.13	0.0526	P	0.2
7	☐	500.000	503.865	196971.99	0.1039	P	0.4
8	☐	1000.000	996.268	389756.42	0.2053	P	1.1
9	☐			669.16	0.0003	P	3.7

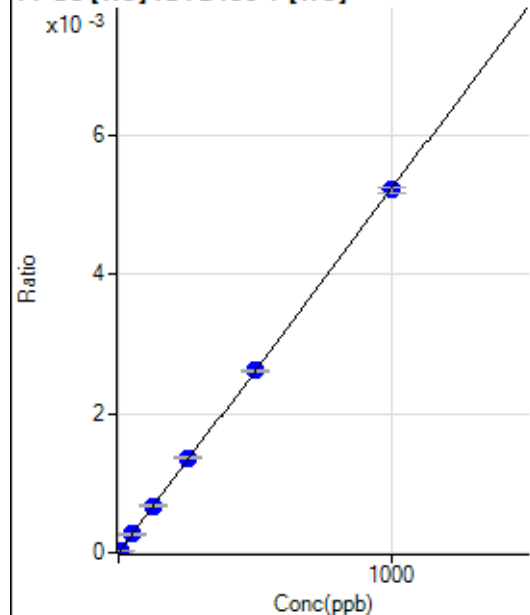
$$y = 2.0611\text{E-}004 * x + 3.8657\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01387$$

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	5.020	52.22	0.0000	P	9.8
4	☐	50.000	51.581	518.91	0.0003	P	8.6
5	☐	125.000	128.487	1271.19	0.0007	P	3.8
6	☐	250.000	260.642	2553.61	0.0014	P	1.8
7	☐	500.000	499.838	4953.14	0.0026	P	1.2
8	☐	1000.000	996.905	9885.73	0.0052	P	1.4
9	☐			3.33	0.0000	P	100.

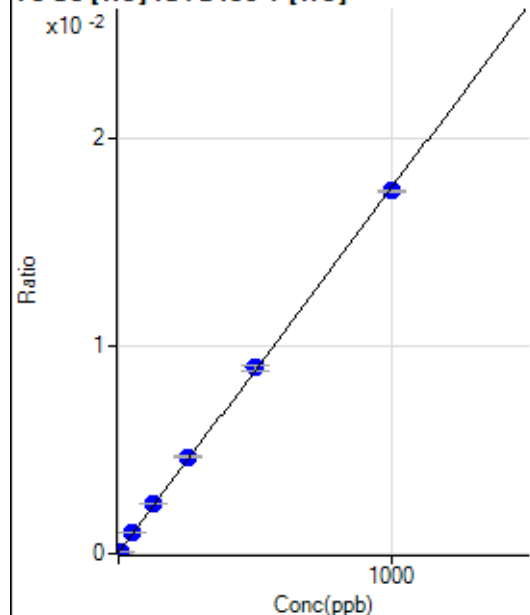
$$y = 5.2236\text{E-}006 * x + 5.8170\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.5786$$

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	93.21	0.0000	P	11.5
2	☐	0.500					
3	☐	5.000	4.638	253.71	0.0001	P	5.7
4	☐	50.000	53.871	1914.34	0.0010	P	1.8
5	☐	125.000	134.802	4578.54	0.0024	P	0.6
6	☐	250.000	262.068	8732.32	0.0047	P	1.7
7	☐	500.000	506.935	17001.39	0.0090	P	2.4
8	☐	1000.000	992.098	33210.82	0.0175	P	0.5
9	☐			111.11	0.0001	P	8.3

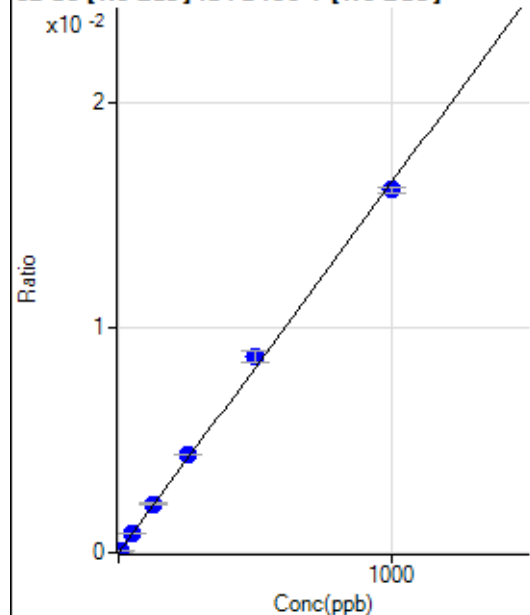
$$y = 1.7587\text{E-}005 * x + 4.8650\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.9541$$

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	13.08	0.0000	P	276.
2	☐	0.500					
3	☐	5.000	5.797	1179.92	0.0001	P	4.9
4	☐	50.000	53.222	10627.85	0.0009	P	1.1
5	☐	125.000	132.016	25874.54	0.0022	P	2.4
6	☐	250.000	263.910	50993.92	0.0044	P	0.7
7	☐	500.000	530.187	100866.40	0.0087	P	5.6
8	☐	1000.000	980.387	191580.01	0.0162	P	1.3
9	☐			266.10	0.0000	P	9.1

$$y = 1.6482\text{E-}005 * x + 1.0670\text{E-}006$$

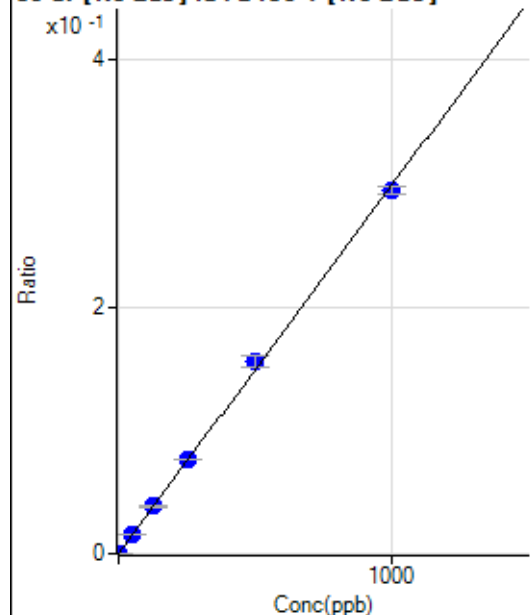
$$R = 0.9992$$

$$DL = 0.5377$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	722.27	0.0001	P	5.2
2	☐	0.100					
3	☐	1.000	1.035	4484.21	0.0004	P	3.0
4	☐	50.000	50.837	183996.49	0.0152	P	0.6
5	☐	125.000	128.305	455084.71	0.0383	P	1.7
6	☐	250.000	257.068	898370.87	0.0766	P	0.3
7	☐	500.000	523.962	1802069.20	0.1562	P	6.0
8	☐	1000.000	985.797	3482911.67	0.2938	P	2.1
9	☐			18893.66	0.0016	P	1.3

$$y = 2.9793\text{E-}004 * x + 5.8659\text{E-}005$$

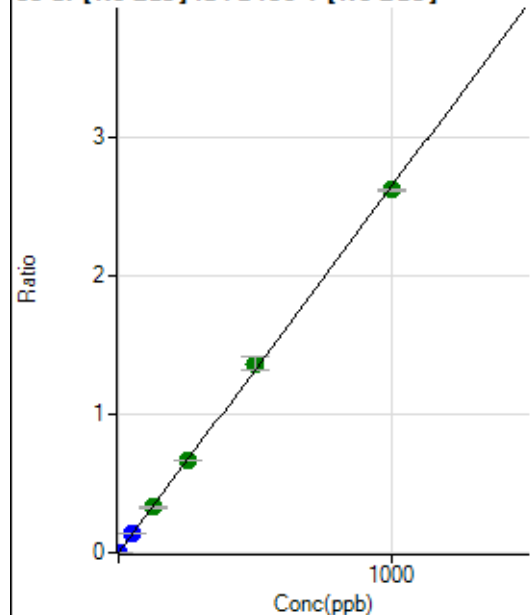
$$R = 0.9995$$

$$DL = 0.03043$$

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	150.01	0.0000	P	36.2
2	☐	0.100					
3	☐	1.000	1.003	32571.24	0.0027	P	2.3
4	☐	50.000	49.985	1600441.95	0.1323	P	0.2
5	☐	125.000	124.646	3919801.52	0.3298	A	2.0
6	☐	250.000	251.949	7812692.89	0.6666	A	0.3
7	☐	500.000	517.032	15780786.47	1.3679	A	6.7
8	☐	1000.000	991.042	31082667.36	2.6219	A	0.6
9	☐			158712.14	0.0135	P	0.4

$$y = 0.0026 * x + 1.2177\text{E-}005$$

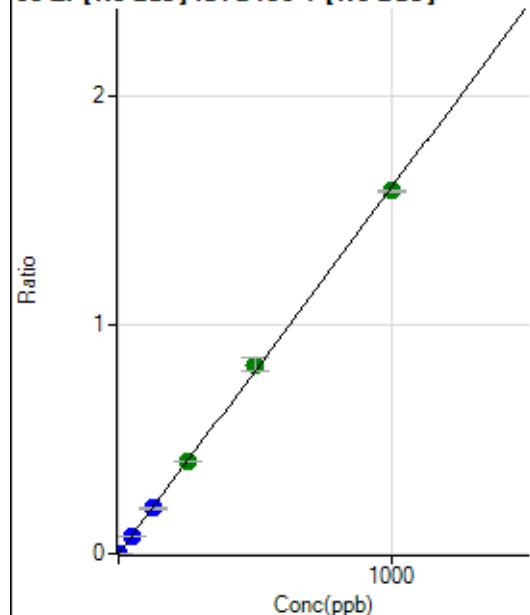
$$R = 0.9998$$

$$DL = 0.004999$$

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	1125.10	0.0001	P	8.7
2	☐	0.100					
3	☐	1.000	1.042	21508.47	0.0018	P	1.1
4	☐	50.000	49.511	961145.37	0.0794	P	0.4
5	☐	125.000	123.851	2359878.83	0.1985	P	2.1
6	☐	250.000	251.656	4727298.50	0.4033	A	0.1
7	☐	500.000	517.249	9563475.74	0.8289	A	6.4
8	☐	1000.000	991.130	18827750.94	1.5882	A	0.3
9	☐			6196.02	0.0005	P	4.9

$$y = 0.0016 * x + 9.1382E-005$$

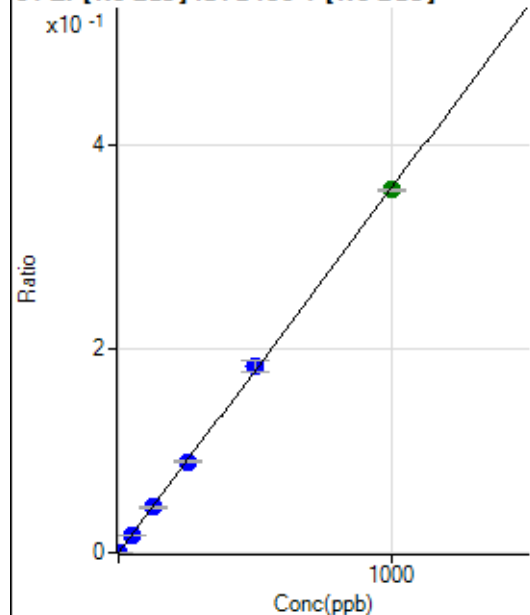
$$R = 0.9998$$

$$DL = 0.01484$$

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	188.90	0.0000	P	10.0
2	☐	0.100					
3	☐	1.000	1.028	4670.42	0.0004	P	5.5
4	☐	50.000	49.289	213193.17	0.0176	P	1.1
5	☐	125.000	124.511	528687.75	0.0445	P	2.4
6	☐	250.000	250.301	1047868.78	0.0894	P	0.7
7	☐	500.000	510.368	2103279.82	0.1823	P	6.2
8	☐	1000.000	994.837	4211918.11	0.3553	A	0.3
9	☐			1461.25	0.0001	P	7.5

$$y = 3.5712E-004 * x + 1.5340E-005$$

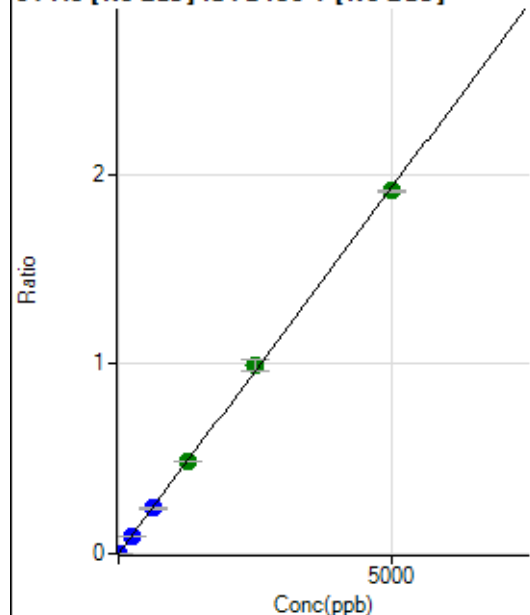
$$R = 0.9999$$

$$DL = 0.01294$$

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	386.13	0.0000	P	10.0
2	☐	0.500					
3	☐	5.000	5.124	24513.46	0.0020	P	2.3
4	☐	250.000	248.348	1159041.54	0.0958	P	0.6
5	☐	625.000	622.494	2853070.64	0.2400	P	1.9
6	☐	1250.000	1257.554	5683013.89	0.4849	A	0.1
7	☐	2500.000	2581.641	11484395.39	0.9954	A	6.4
8	☐	5000.000	4957.687	22660109.01	1.9114	A	0.8
9	☐			27708.24	0.0024	P	1.4

$$y = 3.8554\text{E-}004 * x + 3.1356\text{E-}005$$

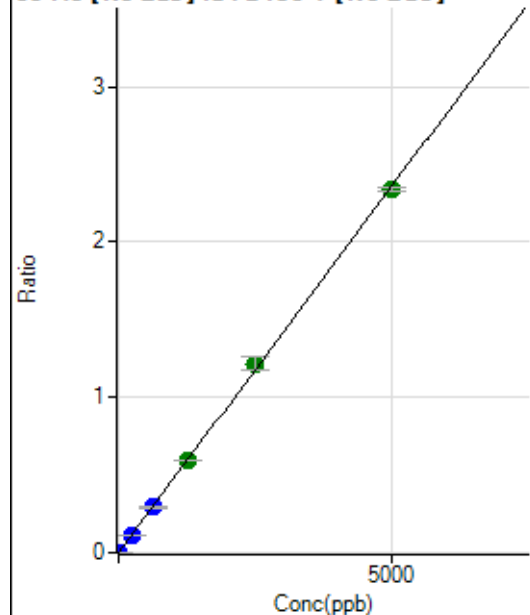
$$R = 0.9998$$

$$DL = 0.02443$$

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	52.78	0.0000	P	39.9
2	☐	0.500					
3	☐	5.000	5.024	28971.86	0.0024	P	1.9
4	☐	250.000	247.669	1412378.72	0.1167	P	0.6
5	☐	625.000	620.661	3476392.39	0.2925	P	2.2
6	☐	1250.000	1257.298	6944359.10	0.5925	A	0.3
7	☐	2500.000	2586.658	14064822.36	1.2189	A	6.2
8	☐	5000.000	4955.505	27684631.87	2.3352	A	1.1
9	☐			45587.57	0.0039	P	1.6

$$y = 4.7123\text{E-}004 * x + 4.2888\text{E-}006$$

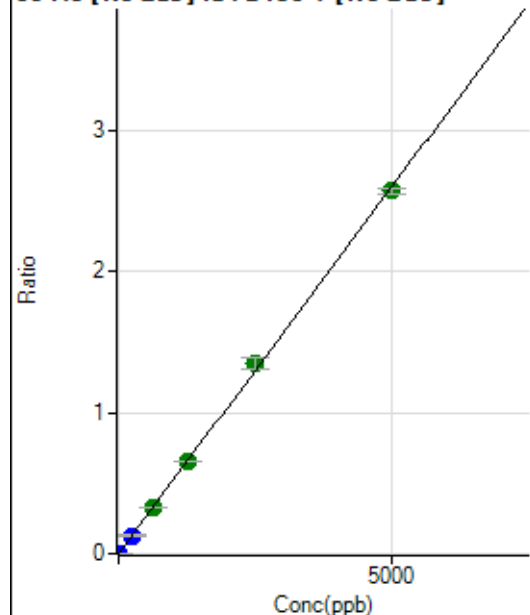
$$R = 0.9998$$

$$DL = 0.0109$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	130.56	0.0000	P	29.9
2	☐	0.500					
3	☐	5.000	5.037	32095.27	0.0026	P	0.5
4	☐	250.000	249.107	1566327.05	0.1294	P	0.5
5	☐	625.000	626.033	3866058.33	0.3253	A	2.3
6	☐	1250.000	1255.750	7647039.67	0.6524	A	0.3
7	☐	2500.000	2596.362	15563987.15	1.3489	A	6.4
8	☐	5000.000	4950.297	30491606.24	2.5719	A	1.3
9	☐			57407.43	0.0049	P	2.9

$$y = 5.1955\text{E-}004 * x + 1.0599\text{E-}005$$

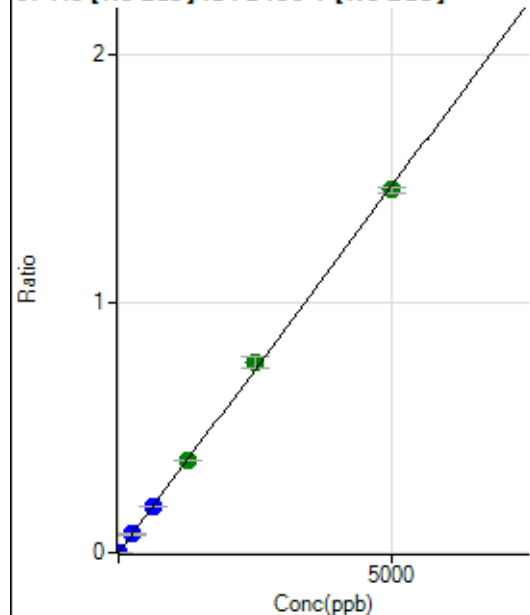
$$R = 0.9997$$

$$DL = 0.01831$$

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	72.22	0.0000	P	29.2
2	☐	0.500					
3	☐	5.000	5.136	18512.66	0.0015	P	1.3
4	☐	250.000	249.583	887915.37	0.0734	P	0.8
5	☐	625.000	625.462	2185444.71	0.1839	P	2.3
6	☐	1250.000	1261.154	4345384.65	0.3707	A	0.1
7	☐	2500.000	2593.885	8798841.78	0.7625	A	6.1
8	☐	5000.000	4950.232	17252383.20	1.4552	A	1.5
9	☐			27755.57	0.0024	P	1.8

$$y = 2.9397\text{E-}004 * x + 5.8679\text{E-}006$$

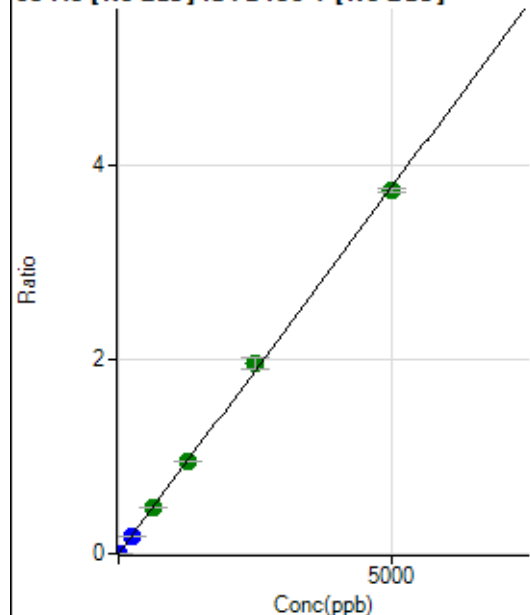
$$R = 0.9997$$

$$DL = 0.01748$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.45	0.0000	P	6.7
2	☐	0.500					
3	☐	5.000	5.061	46777.67	0.0038	P	1.1
4	☐	250.000	248.655	2273460.84	0.1879	P	0.4
5	☐	625.000	624.084	5604298.95	0.4715	A	2.3
6	☐	1250.000	1262.123	11176500.42	0.9536	A	0.4
7	☐	2500.000	2591.626	22596830.19	1.9580	A	5.8
8	☐	5000.000	4951.338	44349491.27	3.7408	A	1.2
9	☐			72829.15	0.0062	P	8.3

$$y = 7.5552\text{E-}004 * x + 5.6396\text{E-}006$$

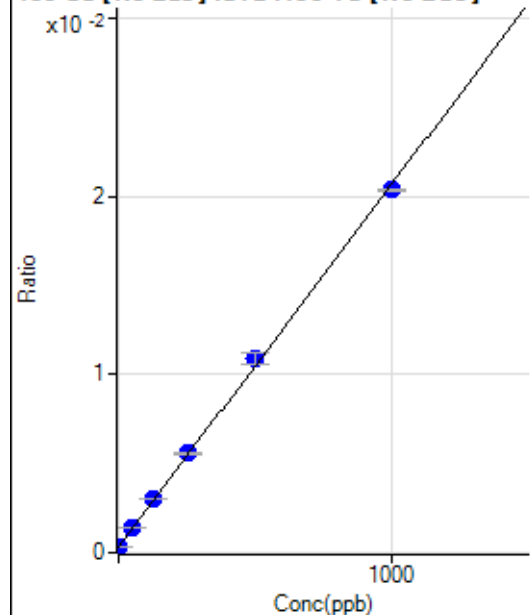
$$R = 0.9997$$

$$DL = 0.001497$$

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	4881.60	0.0003	P	4.9
2	☐	0.100					
3	☐	1.000	1.774	5395.70	0.0004	P	3.1
4	☐	50.000	55.189	21978.93	0.0014	P	1.0
5	☐	125.000	133.188	46204.14	0.0030	P	0.7
6	☐	250.000	258.771	84719.87	0.0056	P	1.4
7	☐	500.000	522.134	164316.83	0.0109	P	5.7
8	☐	1000.000	985.456	310544.88	0.0204	P	0.3
9	☐			4987.19	0.0003	P	7.1

$$y = 2.0356\text{E-}005 * x + 3.1738\text{E-}004$$

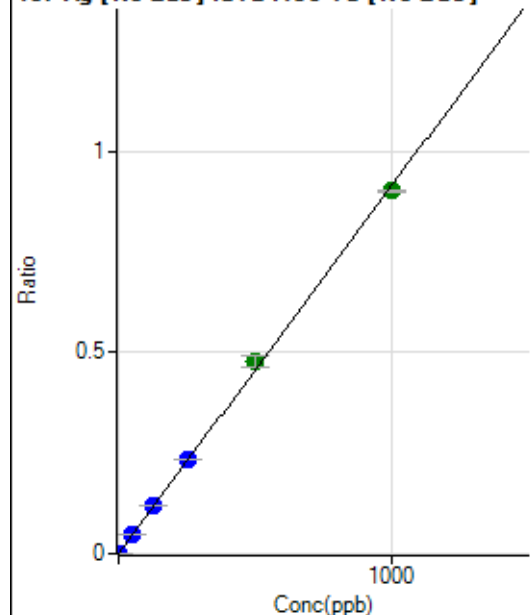
$$R = 0.9996$$

$$DL = 2.304$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	125.01	0.0000	P	24.4
2	☐	0.100					
3	☐	1.000	1.088	15294.97	0.0010	P	1.0
4	☐	50.000	53.475	745530.27	0.0489	P	0.3
5	☐	125.000	130.076	1813172.26	0.1189	P	2.1
6	☐	250.000	255.488	3541582.28	0.2335	P	0.7
7	☐	500.000	522.034	7160192.70	0.4770	A	5.9
8	☐	1000.000	986.802	13741838.68	0.9017	A	0.2
9	☐			2669.83	0.0002	P	12.2

$$y = 9.1378\text{E-}004 * x + 8.1315\text{E-}006$$

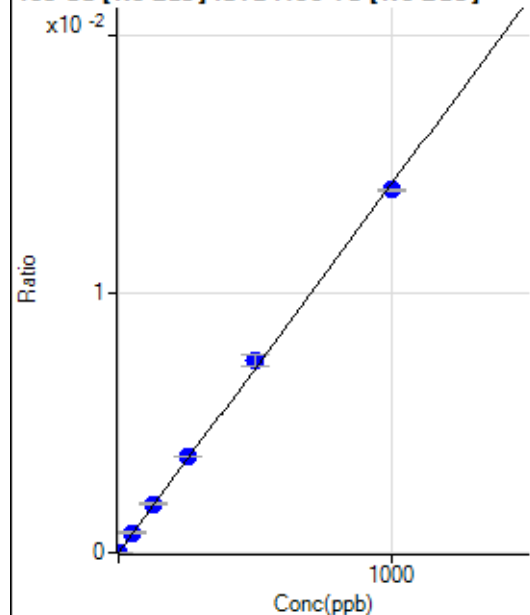
$$R = 0.9996$$

$$DL = 0.006502$$

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	15.28	0.0000	P	31.0
2	☐	0.100					
3	☐	1.000	1.054	244.45	0.0000	P	34.2
4	☐	50.000	54.291	11810.68	0.0008	P	2.2
5	☐	125.000	131.966	28687.60	0.0019	P	1.6
6	☐	250.000	260.786	56360.53	0.0037	P	0.9
7	☐	500.000	523.365	111895.11	0.0075	P	6.1
8	☐	1000.000	984.535	213734.02	0.0140	P	0.7
9	☐			90.28	0.0000	P	6.2

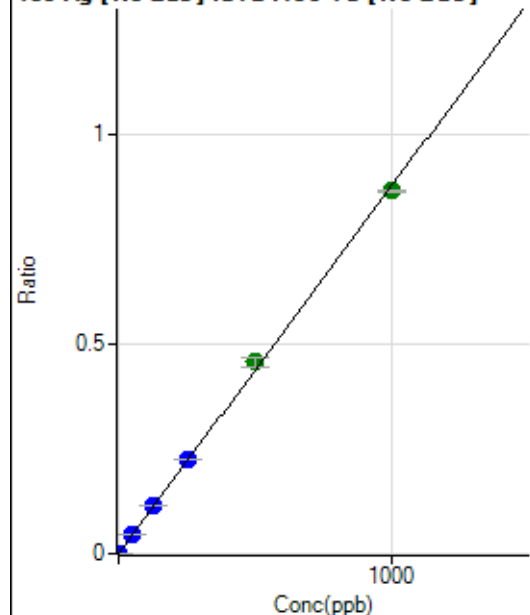
$$y = 1.4243\text{E-}005 * x + 9.9213\text{E-}007$$

$$R = 0.9995$$

$$DL = 0.06472$$

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	41.67	0.0000	P	40.4
2	☐	0.100					
3	☐	1.000	1.098	14719.35	0.0010	P	2.3
4	☐	50.000	53.420	713851.69	0.0468	P	0.4
5	☐	125.000	130.654	1745725.13	0.1145	P	2.2
6	☐	250.000	256.052	3402395.91	0.2243	P	1.0
7	☐	500.000	520.734	6847081.75	0.4561	A	5.8
8	☐	1000.000	987.242	13179112.10	0.8648	A	0.2
9	☐			2661.48	0.0002	P	5.0

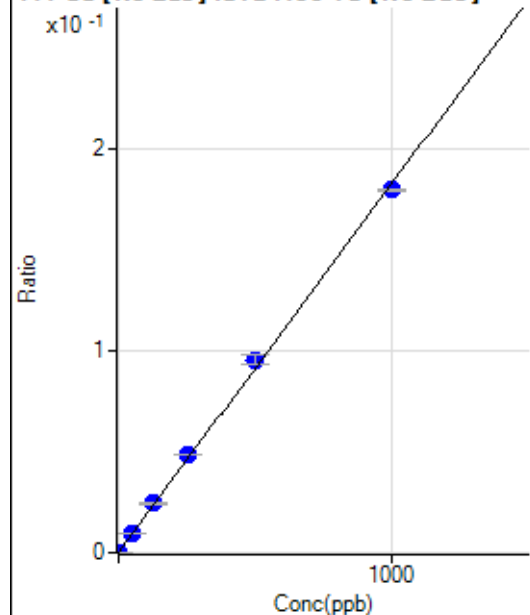
$$y = 8.7596E-004 * x + 2.7122E-006$$

$$R = 0.9997$$

$$DL = 0.003753$$

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	1946.11	0.0001	P	5.1
2	☐	0.100					
3	☐	1.000	1.105	5005.60	0.0003	P	0.7
4	☐	50.000	53.871	151784.12	0.0100	P	0.1
5	☐	125.000	132.861	371472.29	0.0244	P	2.3
6	☐	250.000	264.289	732992.90	0.0483	P	0.9
7	☐	500.000	522.675	1432838.96	0.0954	P	5.4
8	☐	1000.000	983.914	2736126.96	0.1795	P	0.2
9	☐			2890.06	0.0002	P	2.8

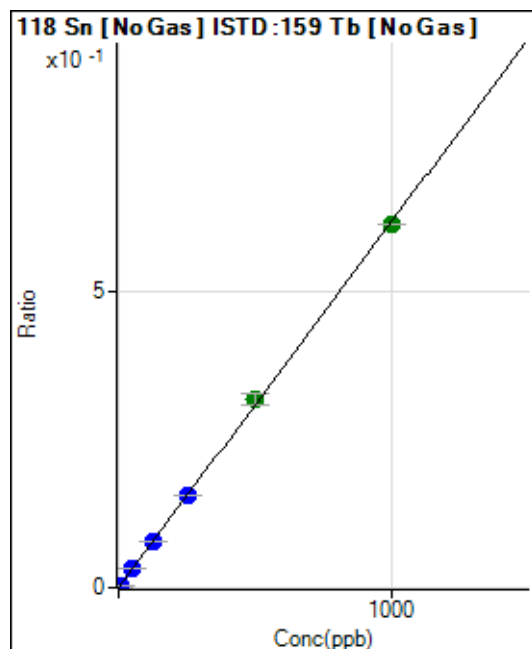
$$y = 1.8235E-004 * x + 1.2653E-004$$

$$R = 0.9995$$

$$DL = 0.1056$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1950.23	0.0001	P	3.1
2	☐	0.500					
3	☐	5.000	5.085	49847.52	0.0033	P	0.3
4	☐	50.000	50.839	480664.83	0.0315	P	0.4
5	☐	125.000	125.825	1186648.93	0.0778	P	2.4
6	☐	250.000	250.680	2349333.08	0.1549	P	0.3
7	☐	500.000	515.967	4781898.02	0.3186	A	6.3
8	☐	1000.000	991.701	9331187.45	0.6123	A	0.1
9	☐			21561.78	0.0014	P	3.9

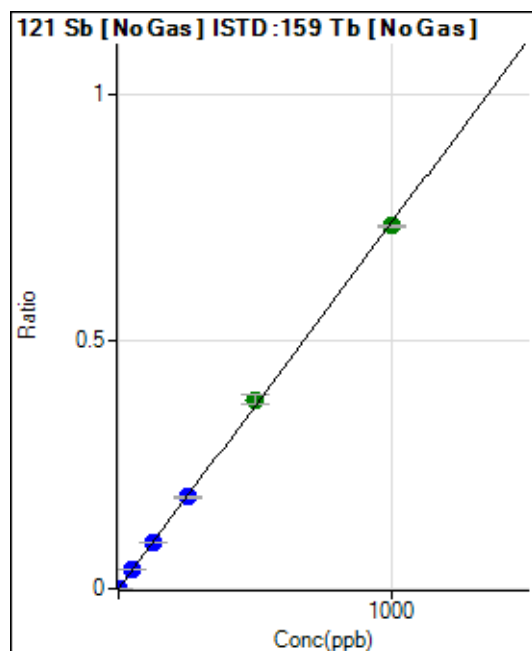
$$y = 6.1730\text{E-}004 * x + 1.2679\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.01939$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.78	0.0000	P	12.7
2	☐	0.200					
3	☐	2.000	2.017	22850.06	0.0015	P	1.9
4	☐	50.000	50.673	571369.48	0.0375	P	0.3
5	☐	125.000	125.669	1416789.55	0.0929	P	1.9
6	☐	250.000	250.040	2803245.64	0.1848	P	0.7
7	☐	500.000	516.857	5733908.72	0.3820	A	5.8
8	☐	1000.000	991.444	11166002.59	0.7327	A	0.3
9	☐			20026.06	0.0013	P	5.9

$$y = 7.3904\text{E-}004 * x + 6.6829\text{E-}006$$

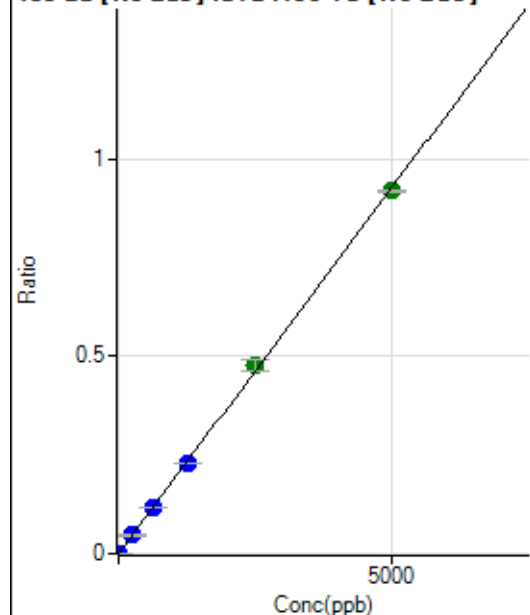
$$R = 0.9998$$

$$DL = 0.003434$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	41.6
2	☐	1.000					
3	☐	10.000	10.057	28496.82	0.0019	P	2.8
4	☐	250.000	251.173	710506.38	0.0466	P	1.1
5	☐	625.000	625.957	1770569.96	0.1161	P	2.0
6	☐	1250.000	1244.839	3501656.07	0.2308	P	0.5
7	☐	2500.000	2577.511	7174439.66	0.4780	A	5.8
8	☐	5000.000	4962.356	14023322.19	0.9202	A	0.3
9	☐			4109.16	0.0003	P	4.2

$$y = 1.8543\text{E-}004 * x + 1.9851\text{E-}006$$

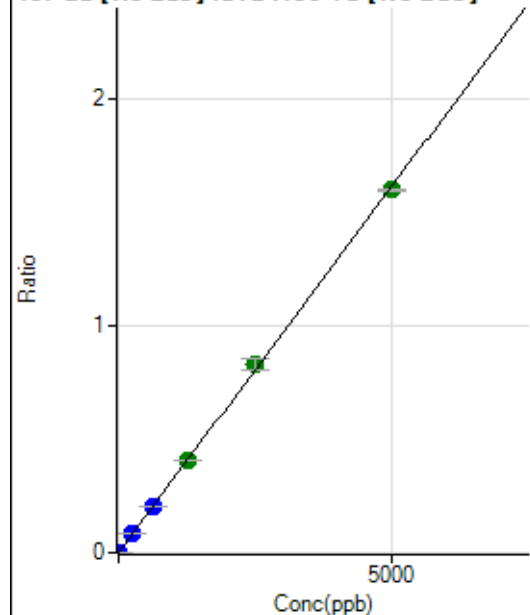
$$R = 0.9998$$

$$DL = 0.01335$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.12	0.0000	P	34.6
2	☐	1.000					
3	☐	10.000	10.205	50280.99	0.0033	P	1.8
4	☐	250.000	252.264	1240703.73	0.0813	P	1.1
5	☐	625.000	626.305	3079899.94	0.2019	P	2.5
6	☐	1250.000	1260.364	6164159.56	0.4064	A	0.3
7	☐	2500.000	2578.443	12478601.06	0.8313	A	5.8
8	☐	5000.000	4957.911	24360377.80	1.5985	A	0.3
9	☐			7160.48	0.0005	P	4.1

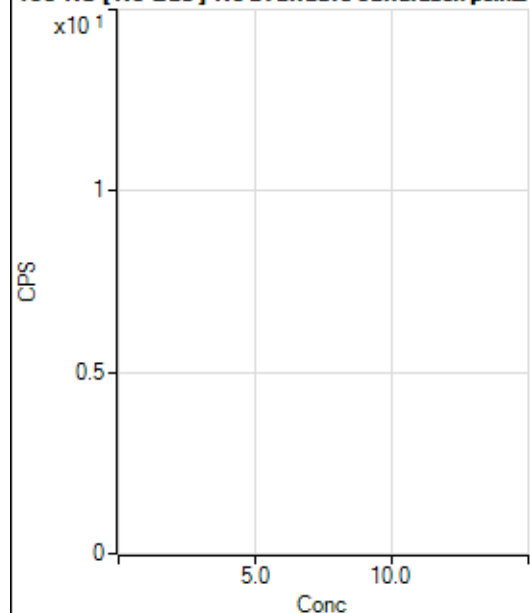
$$y = 3.2240\text{E-}004 * x + 3.9748\text{E-}006$$

$$R = 0.9998$$

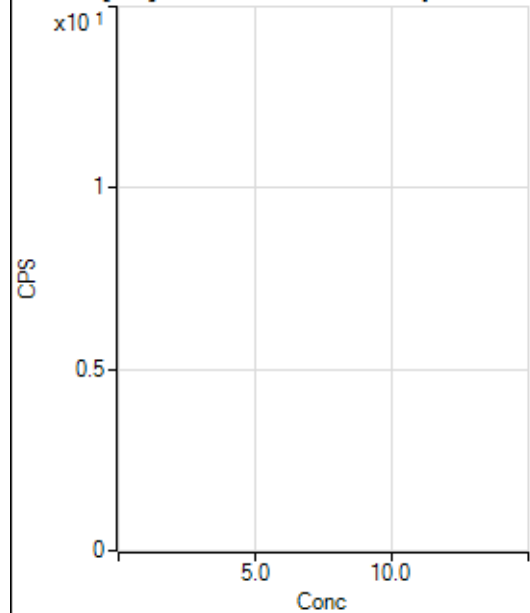
$$DL = 0.0128$$

Weight: <None>

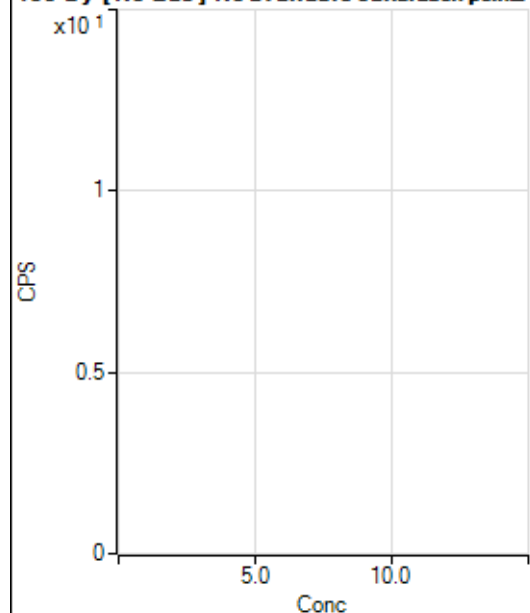
Min Conc: 0

150 Nd [No Gas] No available calibration points

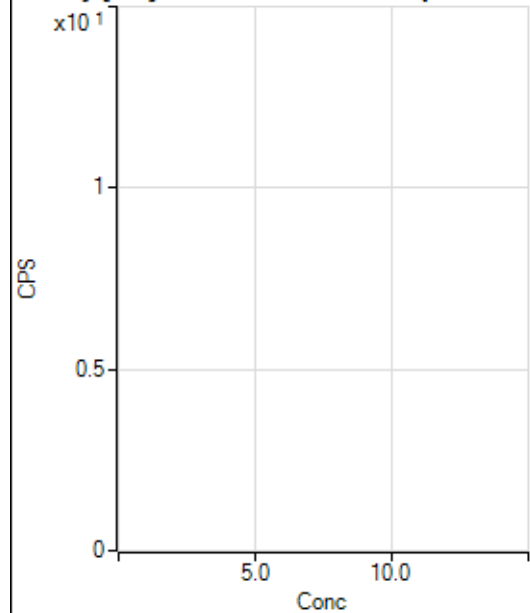
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐						
3	☐			0.00		P	
4	☐			51.11		P	32.8
5	☐			111.12		P	24.3
6	☐			226.68		P	17.9
7	☐			420.02		P	10.4
8	☐			946.73		P	5.6
9	☐			206.67		P	11.2

150 Nd [He] No available calibration points

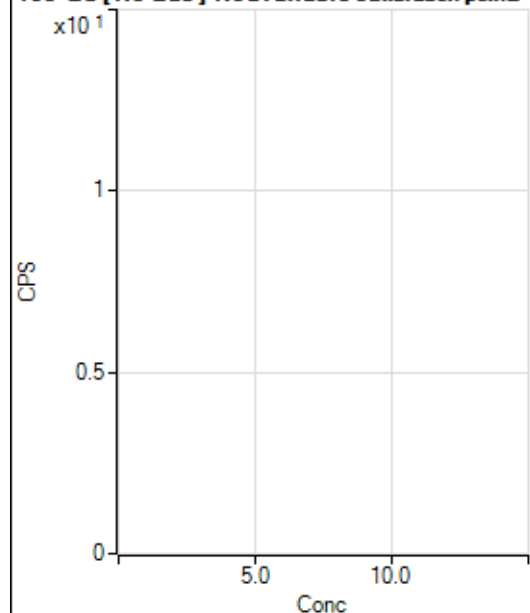
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			1.11		P	173.
4	☐			10.00		P	33.3
5	☐			14.44		P	53.3
6	☐			23.33		P	28.6
7	☐			52.22		P	13.3
8	☐			100.00		P	17.6
9	☐			73.33		P	9.1

156 Dy [No Gas] No available calibration points

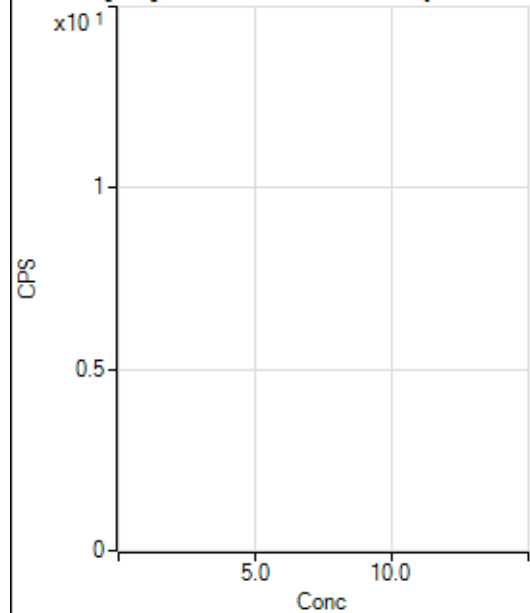
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐						
3	☐			11.11		P	43.3
4	☐			22.22		P	43.3
5	☐			16.67		P	50.0
6	☐			58.33		P	24.7
7	☐			119.45		P	28.2
8	☐			269.46		P	17.6
9	☐			119.45		P	21.3

156 Dy [He] No available calibration points

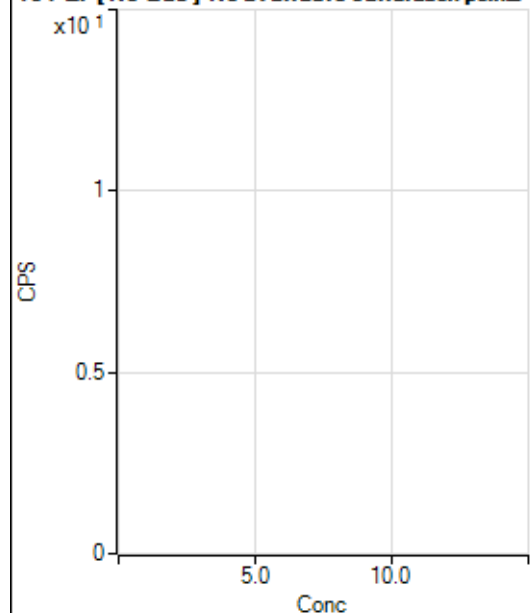
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐						
3	☐			6.67		P	50.0
4	☐			13.33		P	NaN
5	☐			514.80		P	163.
6	☐			45.55		P	23.5
7	☐			101.11		P	5.0
8	☐			210.01		P	17.5
9	☐			60.00		P	38.5

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

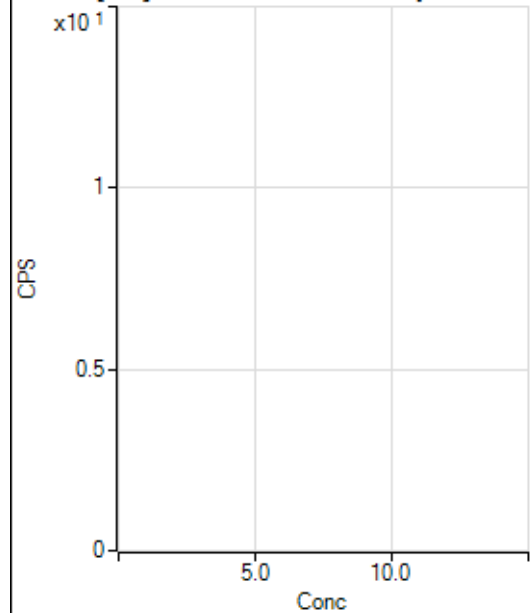
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			94.45		P	31.0
2	☐						
3	☐			111.12		P	38.5
4	☐			111.12		P	28.4
5	☐			122.23		P	17.2
6	☐			111.12		P	17.3
7	☐			144.45		P	27.3
8	☐			147.23		P	11.8
9	☐			197.23		P	13.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			258.89		P	1.5
2	☐						
3	☐			255.56		P	5.4
4	☐			244.45		P	5.2
5	☐			235.56		P	7.0
6	☐			236.67		P	5.1
7	☐			232.23		P	15.1
8	☐			264.45		P	4.1
9	☐			247.79		P	11.4

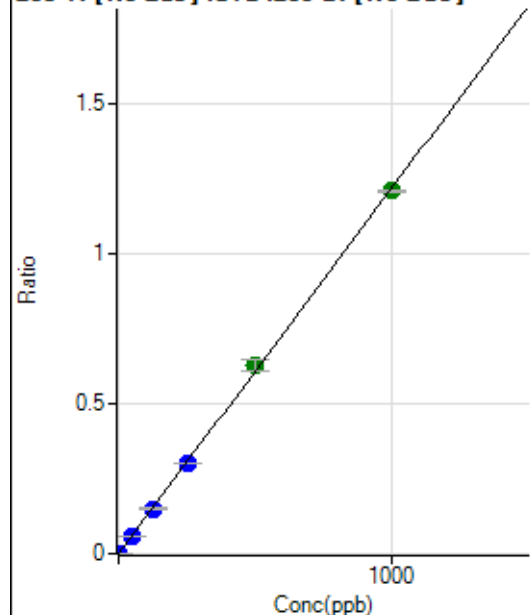
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	12.5
2	☐						
3	☐			58.34		P	28.6
4	☐			66.67		P	25.0
5	☐			36.11		P	58.1
6	☐			55.56		P	45.8
7	☐			66.67		P	37.5
8	☐			69.45		P	45.4
9	☐			91.67		P	24.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26.67		P	12.5
2	☐						
3	☐			55.56		P	21.1
4	☐			33.33		P	40.0
5	☐			23.33		P	57.2
6	☐			37.78		P	43.5
7	☐			36.66		P	41.7
8	☐			33.33		P	0.0
9	☐			36.67		P	15.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.33	0.0000	P	37.9
2	☐	0.100					
3	☐	1.000	1.005	11469.31	0.0012	P	3.0
4	☐	50.000	48.867	556475.04	0.0596	P	1.1
5	☐	125.000	123.212	1409785.00	0.1502	P	2.0
6	☐	250.000	247.258	2821459.22	0.3015	P	0.5
7	☐	500.000	514.715	5704405.38	0.6275	A	6.1
8	☐	1000.000	993.608	11003884.28	1.2114	A	0.8
9	☐			6777.05	0.0008	P	4.2

$$y = 0.0012 * x + 6.1938E-006$$

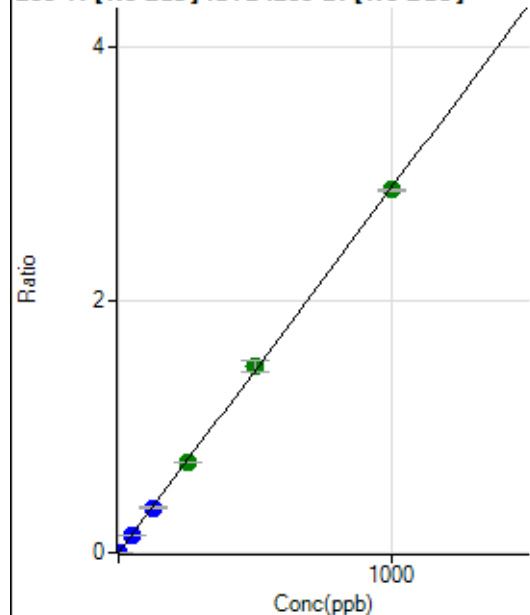
$$R = 0.9998$$

$$DL = 0.005774$$

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	141.67	0.0000	P	35.7
2	☐	0.100					
3	☐	1.000	0.999	27028.50	0.0029	P	2.0
4	☐	50.000	48.803	1316571.75	0.1410	P	1.2
5	☐	125.000	123.172	3338586.53	0.3558	P	2.2
6	☐	250.000	248.508	6717812.56	0.7178	A	0.5
7	☐	500.000	513.018	13468135.37	1.4817	A	6.3
8	☐	1000.000	994.152	26081975.93	2.8714	A	0.6
9	☐			16029.82	0.0020	P	4.7

$$y = 0.0029 * x + 1.5033E-005$$

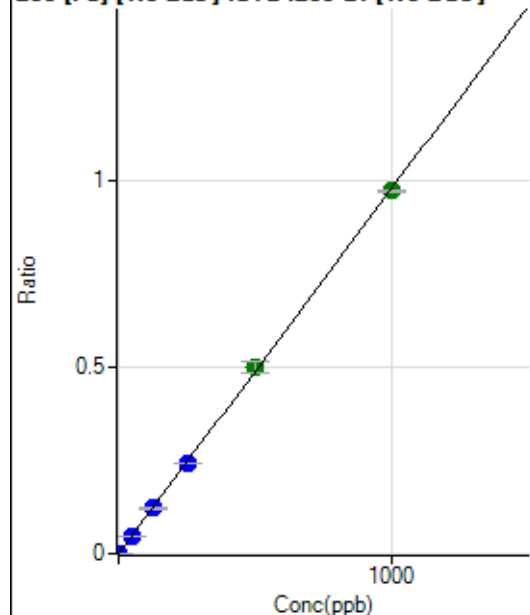
$$R = 0.9999$$

$$DL = 0.00557$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	400.02	0.0000	P	8.3
2	☐	0.100					
3	☐	1.000	0.992	9455.48	0.0010	P	1.0
4	☐	50.000	49.325	451859.74	0.0484	P	0.6
5	☐	125.000	124.614	1146436.31	0.1222	P	2.0
6	☐	250.000	248.928	2283570.54	0.2440	P	0.8
7	☐	500.000	512.425	4565271.86	0.5022	A	6.0
8	☐	1000.000	994.137	8849948.40	0.9743	A	0.7
9	☐			54999.12	0.0068	P	1.2

$$y = 9.8000\text{E-}004 * x + 4.2452\text{E-}005$$

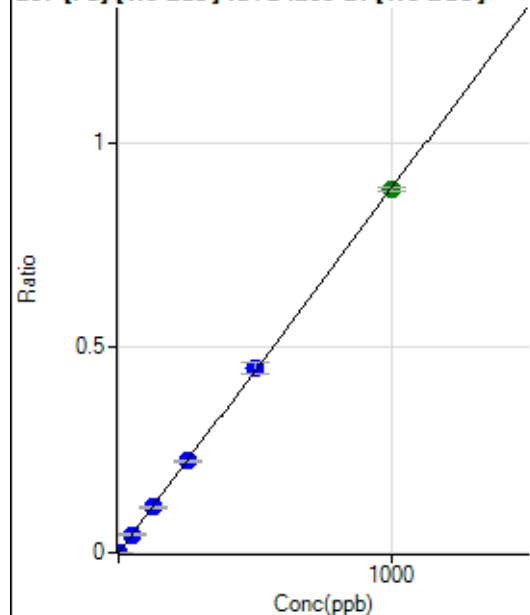
$$R = 0.9999$$

$$DL = 0.01072$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	387.05	0.0000	P	11.9
2	☐	0.100					
3	☐	1.000	1.013	8758.69	0.0009	P	2.5
4	☐	50.000	49.906	414079.38	0.0443	P	1.0
5	☐	125.000	124.945	1041126.61	0.1109	P	2.0
6	☐	250.000	251.610	2090537.59	0.2234	P	0.8
7	☐	500.000	507.426	4095162.68	0.4504	P	5.6
8	☐	1000.000	995.896	8029961.17	0.8840	A	1.1
9	☐			45996.52	0.0057	P	2.6

$$y = 8.8759\text{E-}004 * x + 4.1070\text{E-}005$$

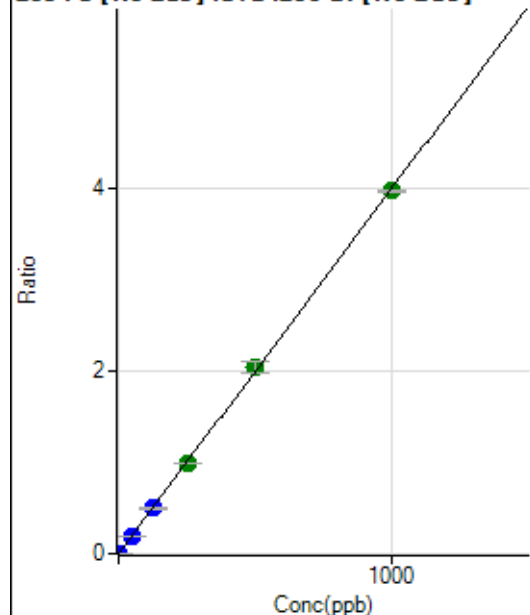
$$R = 1.0000$$

$$DL = 0.01655$$

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	1653.79	0.0002	P	2.8
2	☐	0.100					
3	☐	1.000	1.000	38763.93	0.0042	P	1.8
4	☐	50.000	49.444	1842368.89	0.1973	P	0.9
5	☐	125.000	124.109	4644357.01	0.4949	P	1.8
6	☐	250.000	249.538	9311251.29	0.9949	A	0.6
7	☐	500.000	511.517	18537871.10	2.0392	A	5.8
8	☐	1000.000	994.496	36011086.63	3.9644	A	0.9
9	☐			214782.03	0.0264	P	0.7

$$y = 0.0040 * x + 1.7552E-004$$

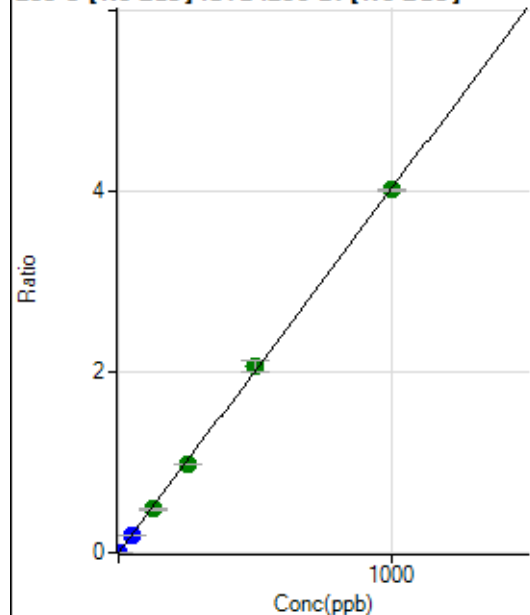
$$R = 0.9999$$

$$DL = 0.003711$$

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	44.45	0.0000	P	39.2
2	☐	0.100					
3	☐	1.000	0.950	35683.34	0.0038	P	2.2
4	☐	50.000	47.285	1777642.20	0.1903	P	1.4
5	☐	125.000	119.748	4523491.77	0.4820	A	2.2
6	☐	250.000	244.485	9210929.98	0.9841	A	0.3
7	☐	500.000	510.963	18696597.81	2.0568	A	6.1
8	☐	1000.000	996.689	36442899.42	4.0120	A	0.7
9	☐			6913.28	0.0009	P	3.2

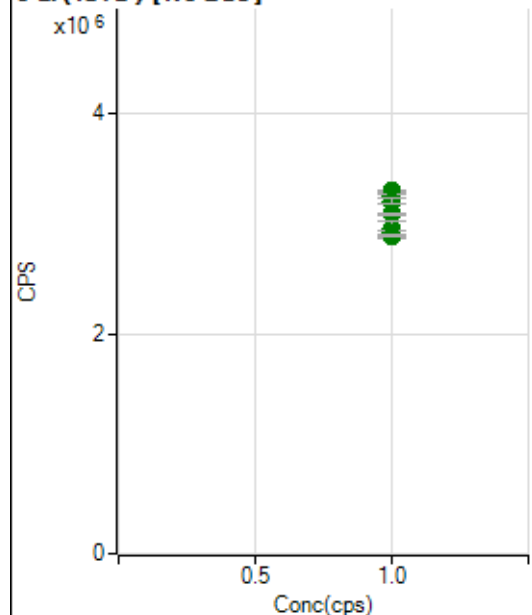
$$y = 0.0040 * x + 4.7193E-006$$

$$R = 0.9999$$

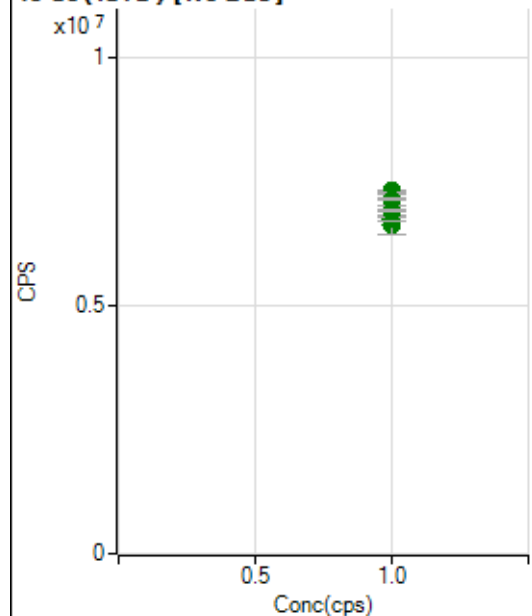
$$DL = 0.001378$$

Weight: <None>

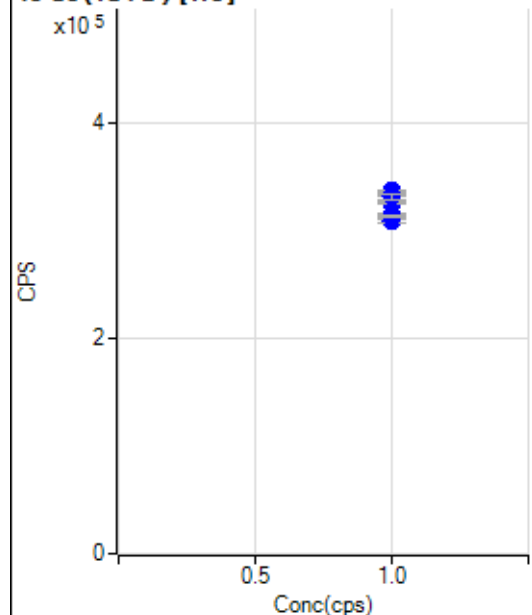
Min Conc: 0

6 Li (ISTD) [No Gas]

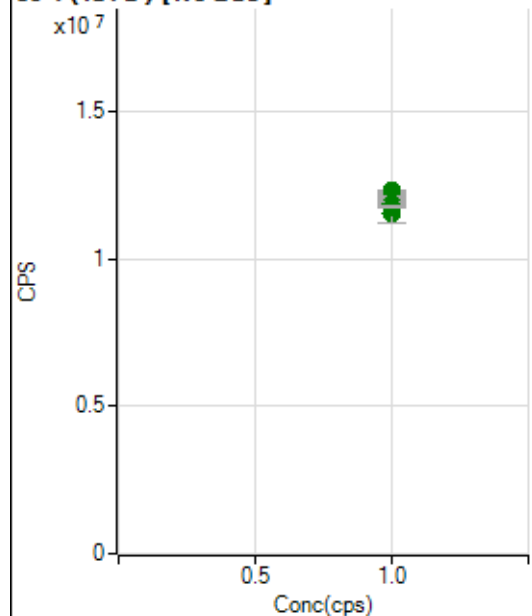
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3295547.52		A	0.3
2	☐	1.000					
3	☐	1.000		3275582.52		A	0.1
4	☐	1.000		3255448.04		A	0.9
5	☐	1.000		3204489.74		A	1.5
6	☐	1.000		3087100.34		A	0.4
7	☐	1.000		2944286.52		A	5.1
8	☐	1.000		2909813.81		A	1.3
9	☐	1.000		2887499.40		A	0.7

45 Sc (ISTD) [No Gas]

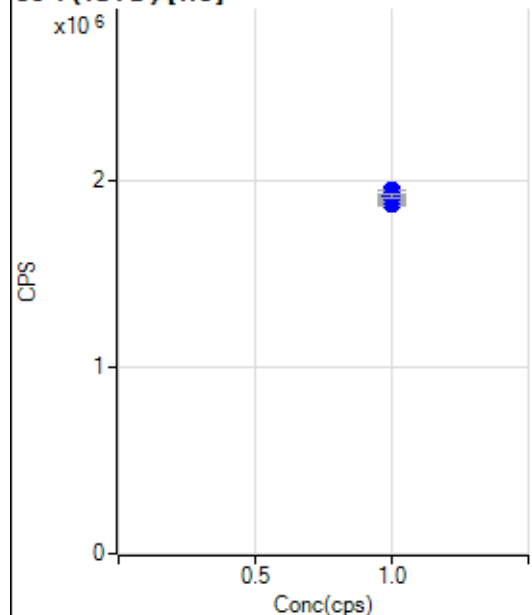
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7326135.32		A	0.3
2	☐	1.000					
3	☐	1.000		7271604.59		A	0.5
4	☐	1.000		7153617.78		A	0.8
5	☐	1.000		6969775.94		A	1.6
6	☐	1.000		6796284.35		A	0.2
7	☐	1.000		6643906.92		A	5.6
8	☐	1.000		6762132.31		A	1.3
9	☐	1.000		6930983.22		A	0.7

45 Sc (ISTD) [He]

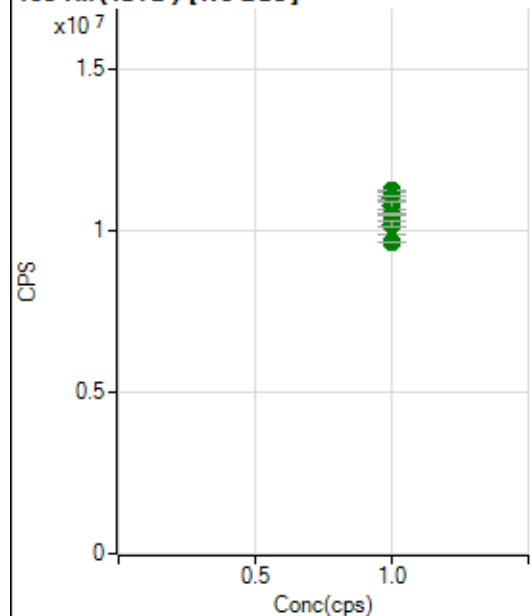
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		331802.35		P	0.2
2	☐	1.000					
3	☐	1.000		336884.09		P	0.8
4	☐	1.000		325228.73		P	0.7
5	☐	1.000		314833.86		P	0.6
6	☐	1.000		309279.71		P	1.3
7	☐	1.000		312168.34		P	0.5
8	☐	1.000		313200.99		P	0.5
9	☐	1.000		331322.15		P	1.2

89 Y (ISTD) [No Gas]

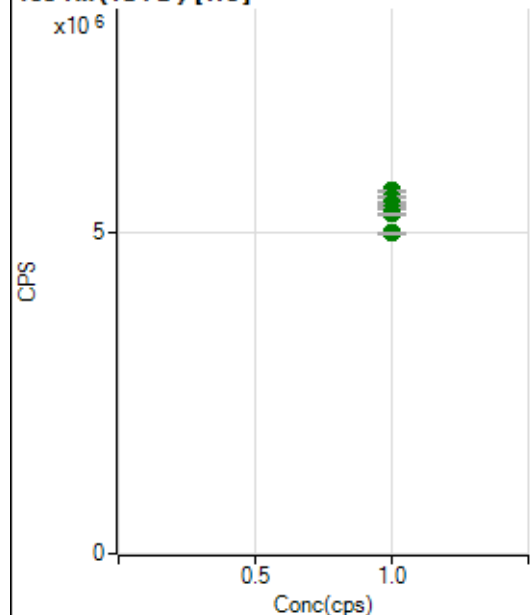
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12312871.76		A	0.2
2	☐	1.000					
3	☐	1.000		12214655.65		A	0.3
4	☐	1.000		12101456.07		A	0.5
5	☐	1.000		11889502.88		A	2.0
6	☐	1.000		11720773.30		A	0.1
7	☐	1.000		11566919.97		A	5.9
8	☐	1.000		11854517.60		A	1.0
9	☐	1.000		11757164.96		A	0.4

89 Y(ISTD) [He]

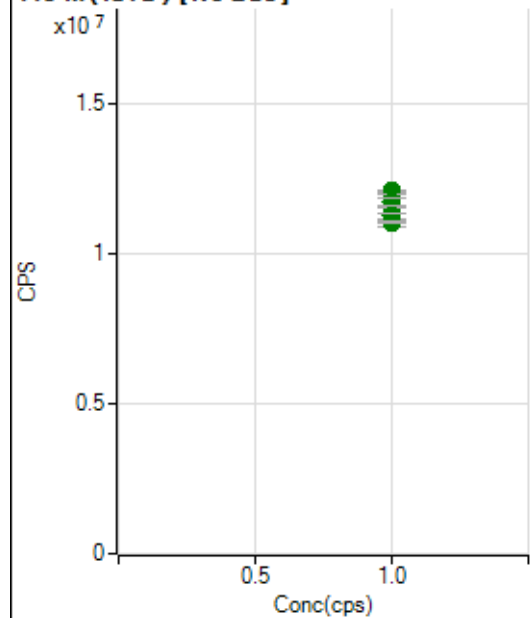
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1915773.39		P	0.4
2	☐	1.000					
3	☐	1.000		1948296.90		P	0.1
4	☐	1.000		1921827.28		P	0.1
5	☐	1.000		1892367.07		P	0.3
6	☐	1.000		1874656.41		P	0.7
7	☐	1.000		1896643.15		P	0.4
8	☐	1.000		1898102.79		P	0.4
9	☐	1.000		1924121.26		P	0.9

103 Rh(ISTD) [No Gas]

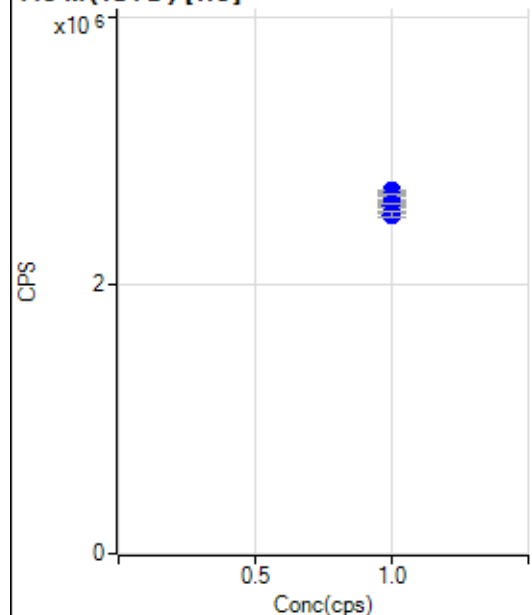
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11219626.21		A	0.4
2	☐	1.000					
3	☐	1.000		11218626.90		A	0.1
4	☐	1.000		11012069.00		A	0.8
5	☐	1.000		10765492.78		A	2.1
6	☐	1.000		10457252.06		A	0.2
7	☐	1.000		10189739.90		A	6.3
8	☐	1.000		10192617.15		A	2.0
9	☐	1.000		9616319.57		A	0.2

103 Rh (ISTD) [He]

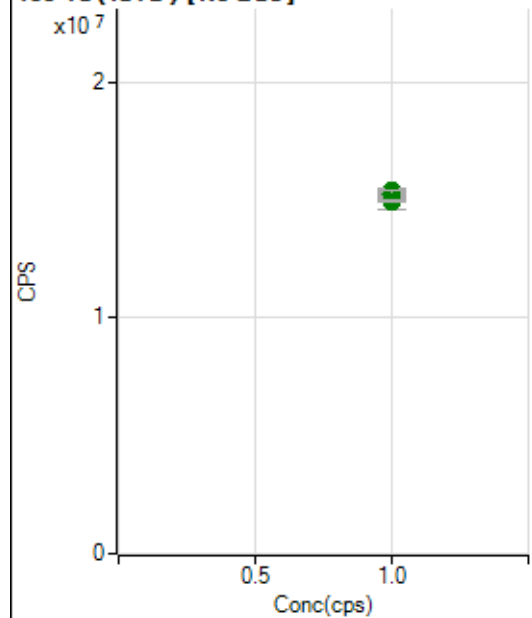
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5440607.70		A	0.4
2	☐	1.000					
3	☐	1.000		5633762.69		A	0.3
4	☐	1.000		5534347.14		A	0.4
5	☐	1.000		5423803.60		A	0.7
6	☐	1.000		5348084.78		A	0.6
7	☐	1.000		5356723.60		A	0.9
8	☐	1.000		5275889.26		A	0.2
9	☐	1.000		4973782.05		A	0.9

115 In (ISTD) [No Gas]

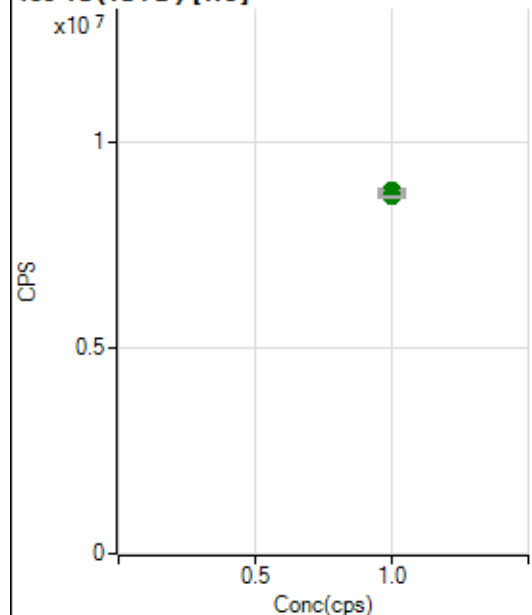
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12085993.93		A	0.4
2	☐	1.000					
3	☐	1.000		12074443.48		A	0.4
4	☐	1.000		11983435.55		A	0.4
5	☐	1.000		11726286.96		A	2.0
6	☐	1.000		11546047.64		A	0.1
7	☐	1.000		11263633.70		A	6.4
8	☐	1.000		11257974.45		A	1.6
9	☐	1.000		11043022.02		A	0.4

115 In (ISTD) [He]

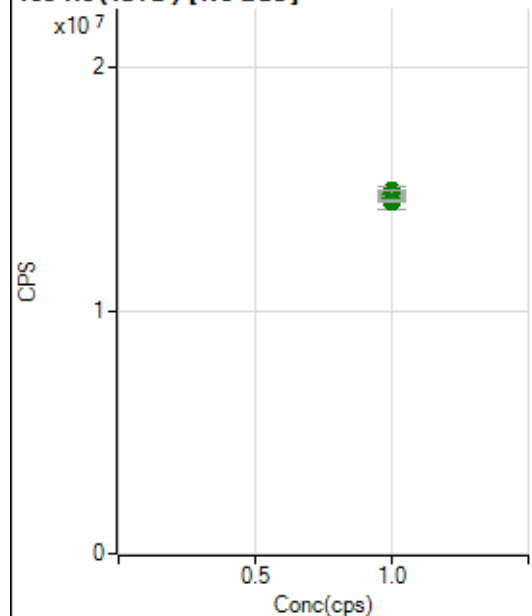
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2637366.15		P	0.1
2	☐	1.000					
3	☐	1.000		2700692.82		P	0.2
4	☐	1.000		2663830.34		P	0.6
5	☐	1.000		2611050.53		P	0.3
6	☐	1.000		2585711.22		P	0.7
7	☐	1.000		2585777.37		P	1.2
8	☐	1.000		2536443.57		P	0.2
9	☐	1.000		2526168.79		P	1.2

159 Tb (ISTD) [No Gas]

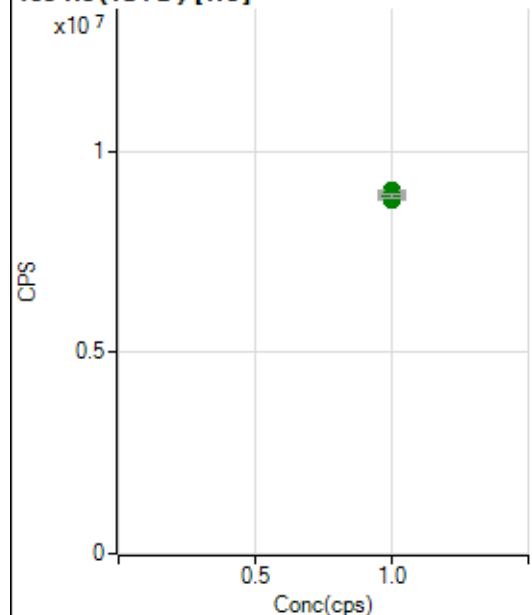
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15383250.74		A	0.5
2	☐	1.000					
3	☐	1.000		15263839.49		A	0.3
4	☐	1.000		15254471.16		A	0.2
5	☐	1.000		15257770.75		A	2.1
6	☐	1.000		15169586.72		A	0.2
7	☐	1.000		15044240.47		A	5.8
8	☐	1.000		15239340.47		A	2.1
9	☐	1.000		14957270.47		A	0.9

159 Tb (ISTD) [He]

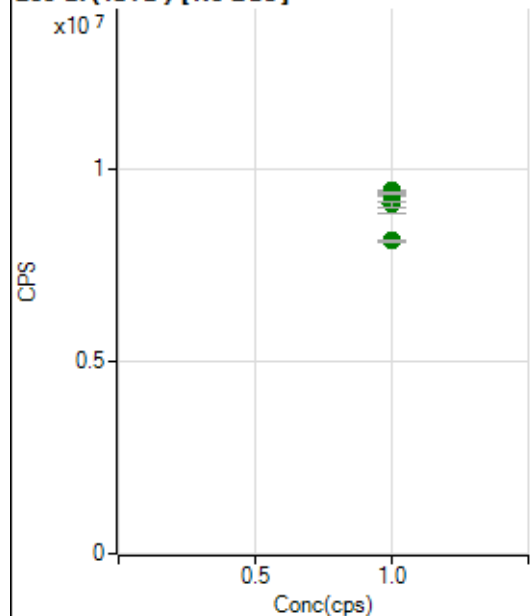
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8677545.29		A	0.4
2	☐	1.000					
3	☐	1.000		8703054.31		A	0.9
4	☐	1.000		8679500.50		A	0.5
5	☐	1.000		8696683.90		A	0.4
6	☐	1.000		8747507.79		A	0.4
7	☐	1.000		8821023.41		A	1.0
8	☐	1.000		8811445.49		A	0.2
9	☐	1.000		8687000.15		A	0.6

165 Ho (ISTD) [No Gas]

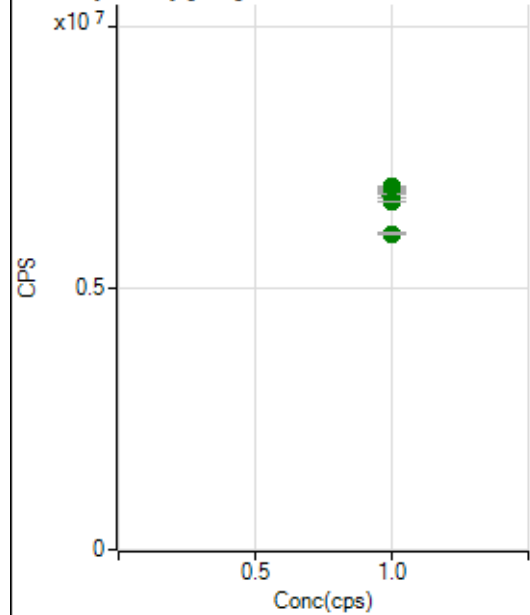
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14914815.44		A	0.5
2	☐	1.000					
3	☐	1.000		14766267.52		A	0.5
4	☐	1.000		14784190.96		A	0.2
5	☐	1.000		14753897.21		A	1.3
6	☐	1.000		14748476.72		A	0.2
7	☐	1.000		14637682.27		A	6.5
8	☐	1.000		14815960.75		A	2.0
9	☐	1.000		14478934.70		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8799990.98		A	0.1
2	☐	1.000					
3	☐	1.000		8852544.03		A	0.7
4	☐	1.000		8870675.01		A	0.4
5	☐	1.000		8833402.93		A	0.2
6	☐	1.000		8888022.99		A	0.1
7	☐	1.000		9011877.02		A	0.8
8	☐	1.000		9005588.13		A	0.2
9	☐	1.000		8880086.26		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9421968.19		A	0.3
2	☐	1.000					
3	☐	1.000		9317561.53		A	0.3
4	☐	1.000		9339876.32		A	0.8
5	☐	1.000		9386388.54		A	1.6
6	☐	1.000		9359299.38		A	0.2
7	☐	1.000		9110547.64		A	5.6
8	☐	1.000		9082815.42		A	1.6
9	☐	1.000		8132103.42		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6887420.10		A	0.4
2	☐	1.000					
3	☐	1.000		6935166.22		A	0.6
4	☐	1.000		6878503.86		A	0.2
5	☐	1.000		6871273.72		A	0.4
6	☐	1.000		6823580.66		A	0.5
7	☐	1.000		6767669.07		A	0.8
8	☐	1.000		6643673.72		A	0.1
9	☐	1.000		6037073.73		A	0.9

US EPA Tune Check Sample Report

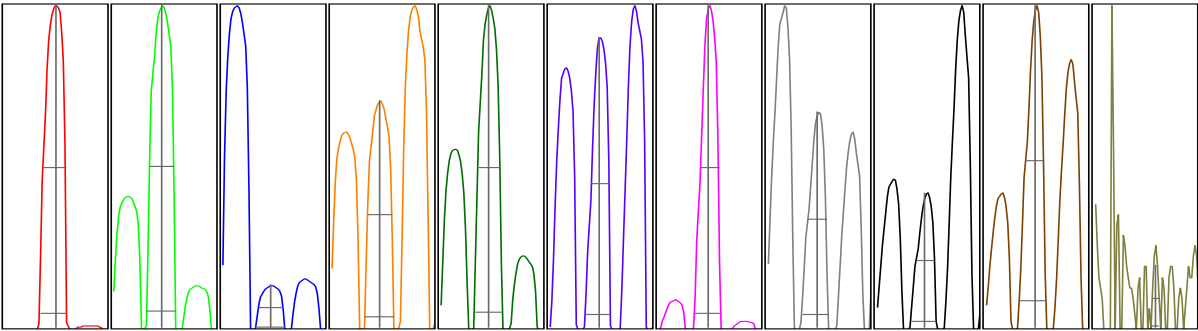
Batch Folder D:\ICP-MS Data\P7072518MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	12444	2.39	5.00	
24	185786	1.96	5.00	
25	25432	2.55	5.00	
26	29047	2.16	5.00	
59	103176	2.18	5.00	
113	13409	1.92	5.00	
115	162929	2.30	5.00	
206	37041	2.16	5.00	
207	34140	2.41	5.00	
208	79326	2.20	5.00	
220	0	39.12		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	12298	12367	12314	12270	12972
24	183613	185328	184339	183483	192168
25	24984	25273	25165	25161	26576
26	28672	28906	28786	28709	30159
59	101748	102483	102257	102212	107179
113	13427	13392	13262	13141	13824
115	165197	162068	160293	158939	168145
206	36558	36690	36829	36666	38461
207	33405	34066	34030	33670	35530
208	77629	78973	79075	78674	82281
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	19895	9.05	8.9 - 9.1		0.789	0.900	
24	280527	23.95	23.9 - 24.1		0.834	0.900	
25	37794	24.95	24.9 - 25.1		0.837	0.900	
26	43764	25.95	25.9 - 26.1		0.835	0.900	
59	170037	58.95	58.9 - 59.1		0.826	0.900	
113	25376	113.00	112.9 - 113.1		0.728	0.900	
115	311130	115.00	114.9 - 115.1		0.764	0.900	
206	71587	206.00	205.9 - 206.1		0.773	0.900	
207	64486	206.95	206.9 - 207.1		0.737	0.900	
208	154052	208.00	207.9 - 208.1		0.772	0.900	
220	0	220.35	-		0.244		

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	14.4	V
Extract 2	-115.0	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	180	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	25929	3.24	
89	62735	3.24	
205	39537	2.08	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	27001	26529	25875	25102	25136
89	65256	64333	62506	60923	60656
205	40718	39924	39499	38762	38785

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	10.0	V	Deflect	2.2	V
Extract 2	-160.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	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			