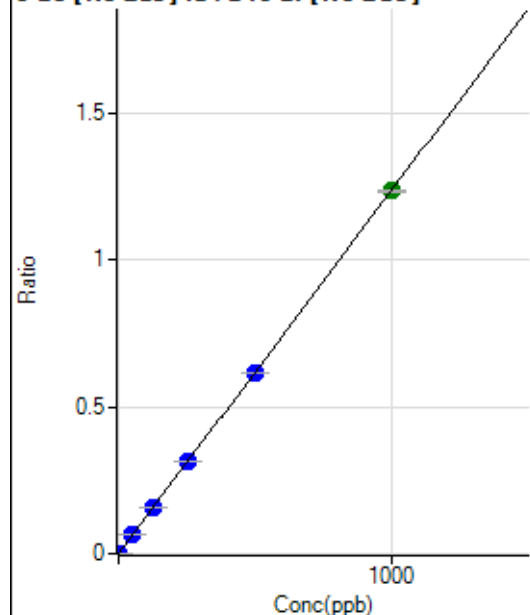


Batch Folder: D:\ICP-MS Data\P7102118 .b.b\
Analysis File: P7102118 .b.batch.bin
DA Date-Time: 2018-10-21 19:43:38
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-10-21 17:56:14
2	004CALS.d	S01	2018-10-21 17:59:48
3	005CALS.d	S02	2018-10-21 18:04:32
4	006CALS.d	S03	2018-10-21 18:08:25
5	007CALS.d	S04	2018-10-21 18:12:36
6	008CALS.d	S05	2018-10-21 18:16:23
7	009CALS.d	S06	2018-10-21 18:20:08
8	010CALS.d	S07	2018-10-21 18:23:53
9	011CALS.d	S08	2018-10-21 18:27:38

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	94.45	0.0000	P	17.0
2	☐	0.100	0.113	692.63	0.0002	P	10.5
3	☐	1.000	1.058	5662.31	0.0013	P	0.6
4	☐	50.000	52.317	273765.45	0.0647	P	0.3
5	☐	125.000	129.202	666167.81	0.1597	P	0.3
6	☐	250.000	254.245	1269956.32	0.3143	P	0.2
7	☐	500.000	499.312	2438823.35	0.6172	P	0.3
8	☐	1000.000	998.642	4783103.29	1.2344	A	0.7
9	☐			770.41	0.0002	P	16.0

$$y = 0.0012 * x + 2.2463E-005$$

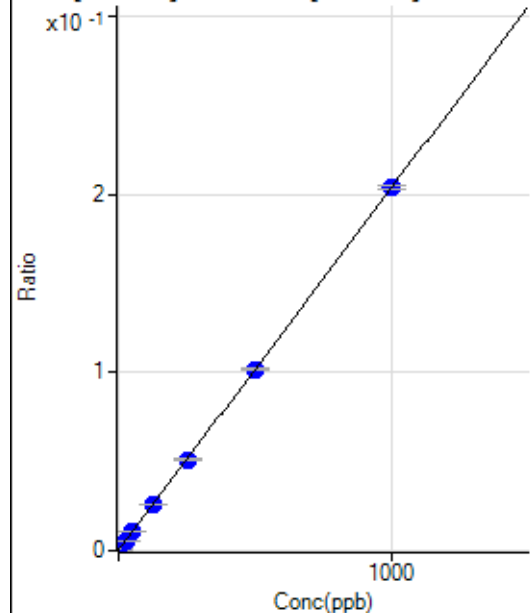
$$R = 1.0000$$

$$DL = 0.009291$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	761.17	0.0002	P	15.4
2	☐	2.500	2.591	3025.44	0.0007	P	3.4
3	☐	25.000	24.490	22005.60	0.0052	P	4.0
4	☐	50.000	50.538	44354.71	0.0105	P	1.8
5	☐	125.000	126.802	108537.88	0.0260	P	2.2
6	☐	250.000	250.957	207396.69	0.0513	P	1.2
7	☐	500.000	499.455	402957.48	0.1020	P	1.2
8	☐	1000.000	999.794	790254.69	0.2040	P	1.0
9	☐			11296.30	0.0031	P	12.5

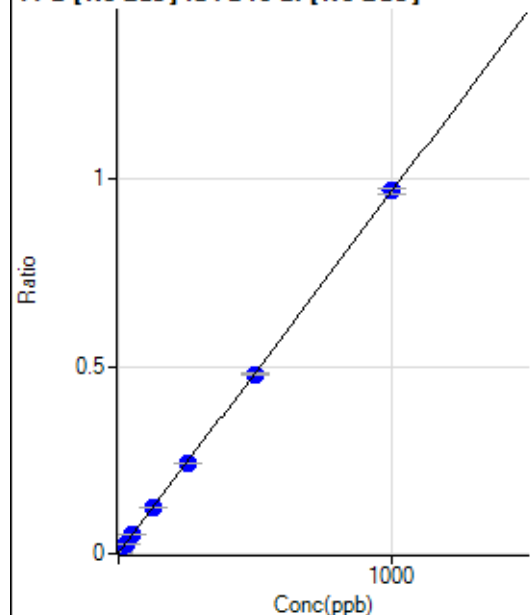
$$y = 2.0382E-004 * x + 1.8125E-004$$

$$R = 1.0000$$

$$DL = 0.4105$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3611.71	0.0009	P	4.6
2	☐	2.500	2.395	13520.43	0.0032	P	1.8
3	☐	25.000	24.925	105992.83	0.0249	P	0.6
4	☐	50.000	50.760	210905.39	0.0498	P	1.1
5	☐	125.000	126.061	510895.97	0.1225	P	1.1
6	☐	250.000	249.833	977523.31	0.2419	P	0.7
7	☐	500.000	495.195	1891484.13	0.4787	P	0.7
8	☐	1000.000	1002.276	3750633.81	0.9680	P	1.3
9	☐			52523.48	0.0144	P	11.1

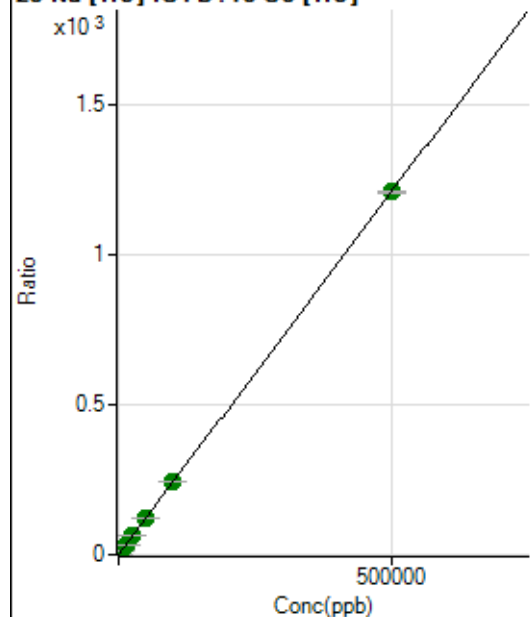
$$y = 9.6493E-004 * x + 8.5961E-004$$

$$R = 1.0000$$

$$DL = 0.123$$

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	24390.04	0.0562	P	1.3
2	☐	50.000	50.504	78402.03	0.1783	P	1.1
3	☐	500.000	506.085	561337.07	1.2801	P	0.3
4	☐	5000.000	5080.819	5388133.71	12.3438	A	0.7
5	☐	12500.000	12671.588	13023055.85	30.7017	A	0.8
6	☐	25000.000	25425.821	25254713.76	61.5470	A	0.2
7	☐	50000.000	50732.472	49588147.99	122.7497	A	0.5
8	☐	100000.00	100278.36	97543152.18	242.5735	A	0.7
9	☐	500000.00	499844.68	503965744.60	1,208.901	A	0.6

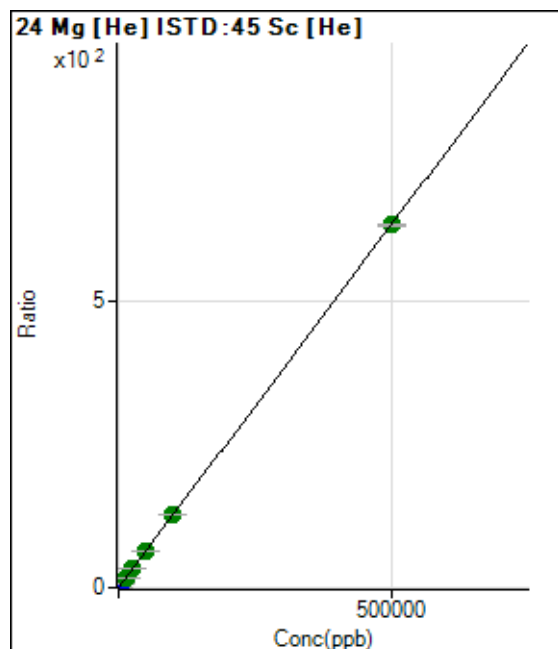
$$y = 0.0024 * x + 0.0562$$

$$R = 1.0000$$

$$DL = 0.8875$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	688.94	0.0016	P	11.4
2	☐	50.000	51.475	29432.64	0.0669	P	3.3
3	☐	500.000	513.215	286438.99	0.6532	P	0.4
4	☐	5000.000	5192.808	2878685.91	6.5949	P	0.3
5	☐	12500.000	12965.464	6983931.58	16.4638	A	0.2
6	☐	25000.000	25911.428	13500398.74	32.9013	A	0.6
7	☐	50000.000	51323.281	26325984.96	65.1667	A	0.2
8	☐	100000.00	101587.11	51868503.24	128.9867	A	0.5
9	☐	500000.00	499491.09	264385142.02	634.2050	A	0.5

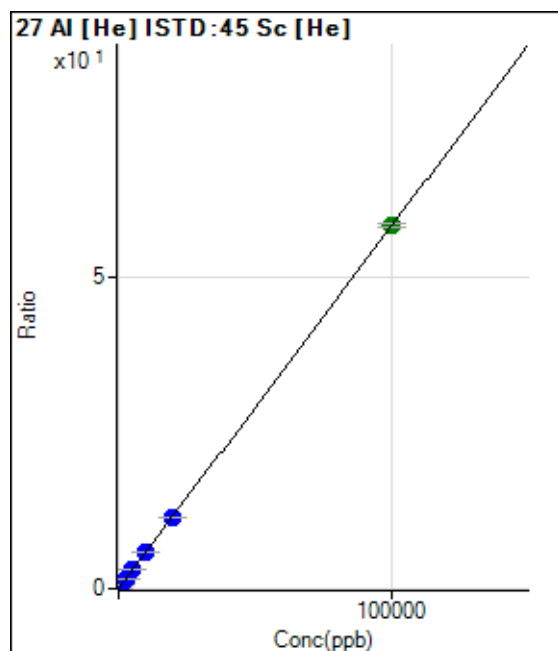
$$y = 0.0013 * x + 0.0016$$

$$R = 1.0000$$

$$DL = 0.429$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	161.12	0.0004	P	15.6
2	☐	2.000	2.190	725.05	0.0016	P	24.0
3	☐	20.000	19.078	5039.95	0.0115	P	7.0
4	☐	1000.000	1032.002	262793.68	0.6020	P	0.3
5	☐	2500.000	2541.769	628774.35	1.4823	P	0.2
6	☐	5000.000	5103.660	1221097.64	2.9759	P	0.4
7	☐	10000.000	10083.772	2375136.81	5.8794	P	0.4
8	☐	20000.000	19674.084	4612699.71	11.4706	P	0.3
9	☐	100000.00	100050.25	24317806.27	58.3311	A	1.0

$$y = 5.8301E-004 * x + 3.7104E-004$$

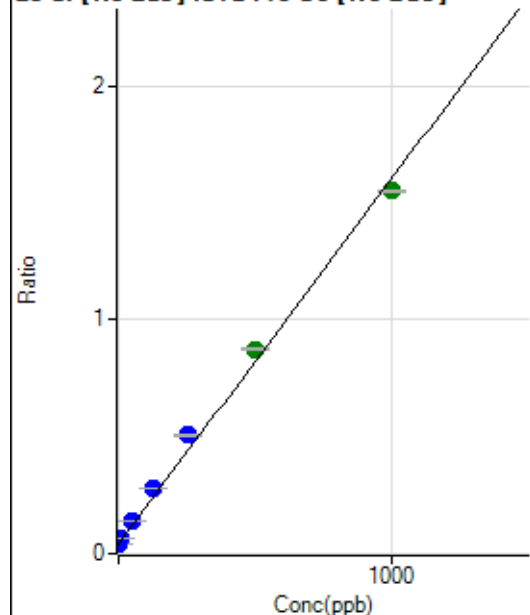
$$R = 1.0000$$

$$DL = 0.2978$$

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	372672.03	0.0422	P	0.5
2	☐	1.000	0.763	397721.38	0.0434	P	0.6
3	☐	10.000	14.443	593355.77	0.0648	P	0.6
4	☐	50.000	61.259	1261541.78	0.1379	P	1.1
5	☐	125.000	151.376	2504286.71	0.2787	P	1.3
6	☐	250.000	298.250	4400421.02	0.5081	P	1.0
7	☐	500.000	533.894	7441370.04	0.8761	A	0.5
8	☐	1000.000	967.087	13195316.88	1.5527	A	0.7
9	☐			1055901.15	0.1242	P	1.4

$$y = 0.0016 * x + 0.0422$$

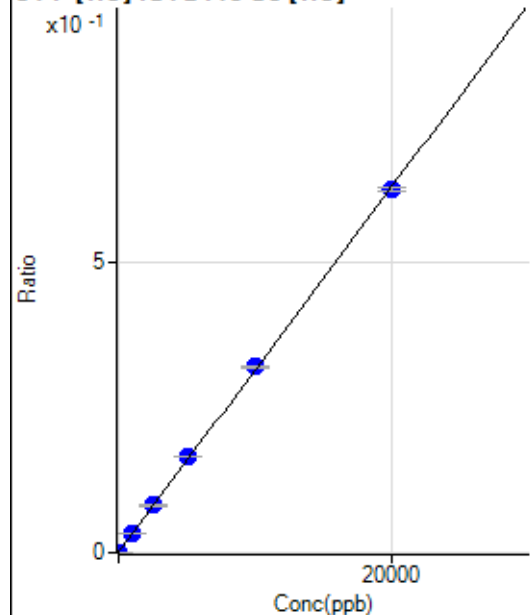
$$R = 0.9977$$

$$DL = 0.3798$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.431	250.01	0.0006	P	11.7
2	☐	0.000	-0.034	300.01	0.0007	P	7.8
3	☐	0.000	3.465	347.24	0.0008	P	25.8
4	☐	1000.000	1053.963	14754.97	0.0338	P	3.2
5	☐	2500.000	2560.278	34421.32	0.0811	P	0.6
6	☐	5000.000	5213.302	67506.36	0.1645	P	0.4
7	☐	10000.000	10171.429	129407.79	0.3203	P	1.3
8	☐	20000.000	19850.727	251141.14	0.6245	P	1.1
9	☐			397.25	0.0010	P	12.8

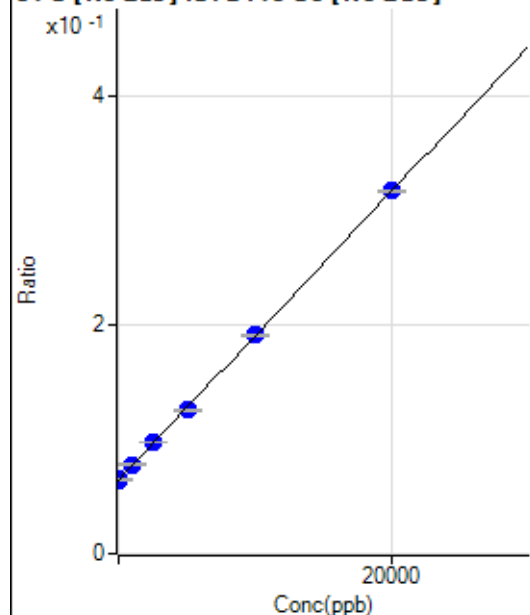
$$y = 3.1426E-005 * x + 6.8358E-004$$

$$R = 0.9999$$

$$DL = 10.34$$

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	46.791	572306.03	0.0649	P	1.1
2	☐	0.000	-62.339	581416.15	0.0635	P	0.3
3	☐	0.000	15.548	590387.25	0.0645	P	0.7
4	☐	1000.000	1083.440	712940.34	0.0779	P	0.4
5	☐	2500.000	2575.027	869482.51	0.0968	P	0.2
6	☐	5000.000	4861.765	1087730.56	0.1256	P	1.0
7	☐	10000.000	10026.385	1619758.51	0.1907	P	0.8
8	☐	20000.000	20007.815	2690372.93	0.3166	P	0.5
9	☐			514273.12	0.0605	P	0.7

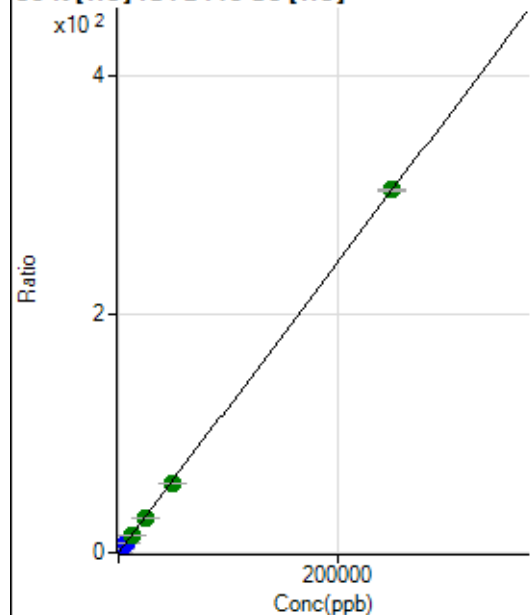
$$y = 1.2610E-005 * x + 0.0643$$

$$R = 0.9999$$

$$DL = 112$$

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	39375.52	0.0907	P	1.7
2	☐	50.000	49.528	66256.76	0.1507	P	0.2
3	☐	500.000	488.896	299474.32	0.6830	P	0.9
4	☐	2500.000	2454.827	1337709.94	3.0646	P	0.2
5	☐	6250.000	6056.138	3150565.24	7.4274	P	0.9
6	☐	12500.000	12031.959	6018261.64	14.6669	A	0.5
7	☐	25000.000	23944.599	11755221.79	29.0985	A	0.5
8	☐	50000.000	47336.310	23097193.74	57.4365	A	0.4
9	☐	250000.00	250667.00	126630869.50	303.7625	A	0.2

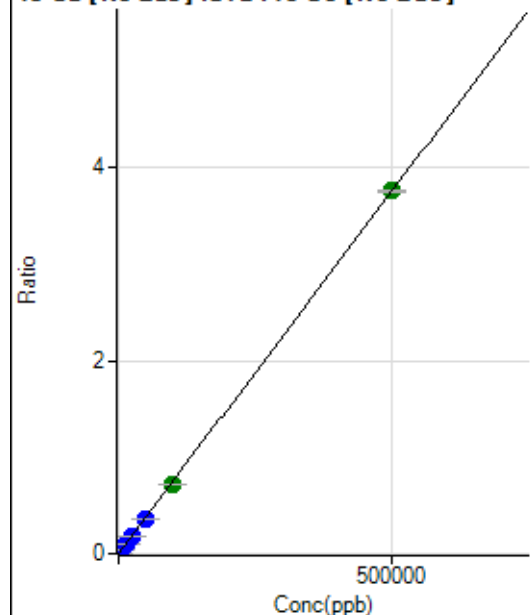
$$y = 0.0012 * x + 0.0907$$

$$R = 0.9999$$

$$DL = 3.794$$

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	388.91	0.0000	P	12.2
2	☐	50.000	49.577	3811.78	0.0004	P	0.6
3	☐	500.000	476.387	33154.75	0.0036	P	1.5
4	☐	5000.000	4921.305	338359.67	0.0370	P	0.9
5	☐	12500.000	12096.870	816569.17	0.0909	P	0.6
6	☐	25000.000	24016.001	1562034.09	0.1804	P	0.6
7	☐	50000.000	47874.881	3053155.08	0.3595	P	0.5
8	☐	100000.00	96247.008	6141213.89	0.7227	A	0.5
9	☐	500000.00	501023.19	31985206.27	3.7617	A	0.7

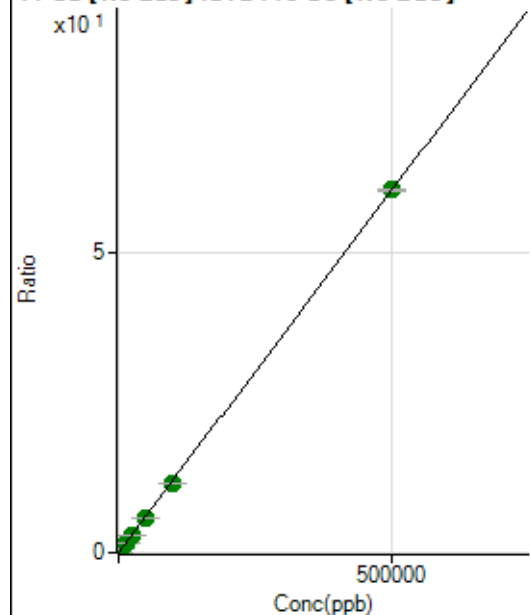
$$y = 7.5079\text{E-}006 * x + 4.4071\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.152$$

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	16190.43	0.0018	P	2.4
2	☐	50.000	48.989	70828.56	0.0077	P	0.2
3	☐	500.000	472.133	537440.34	0.0587	P	0.5
4	☐	5000.000	4883.564	5396372.30	0.5900	A	0.2
5	☐	12500.000	12096.566	13108314.70	1.4587	A	0.4
6	☐	25000.000	24118.233	25173709.24	2.9065	A	0.2
7	☐	50000.000	48448.903	49572418.12	5.8367	A	0.4
8	☐	100000.00	96142.650	98414203.59	11.5806	A	0.2
9	☐	500000.00	500981.94	513035967.03	60.3367	A	0.5

$$y = 1.2043\text{E-}004 * x + 0.0018$$

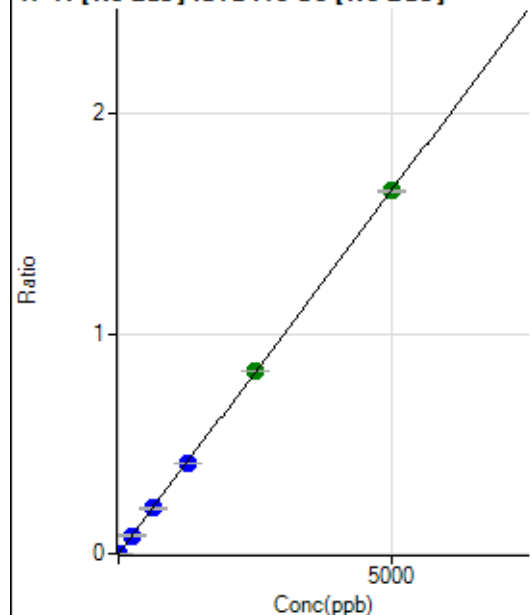
$$R = 1.0000$$

$$DL = 1.088$$

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	88.89	0.0000	P	37.6
2	☐	0.500	0.537	1716.85	0.0002	P	6.2
3	☐	5.000	4.970	15119.45	0.0017	P	2.3
4	☐	250.000	251.399	759396.13	0.0830	P	0.2
5	☐	625.000	622.839	1848293.03	0.2057	P	0.5
6	☐	1250.000	1240.965	3549215.88	0.4098	P	0.7
7	☐	2500.000	2511.177	7042686.35	0.8292	A	0.4
8	☐	5000.000	4996.870	14022188.85	1.6500	A	0.2
9	☐			5576.29	0.0007	P	5.9

$$y = 3.3021\text{E-}004 * x + 1.0067\text{E-}005$$

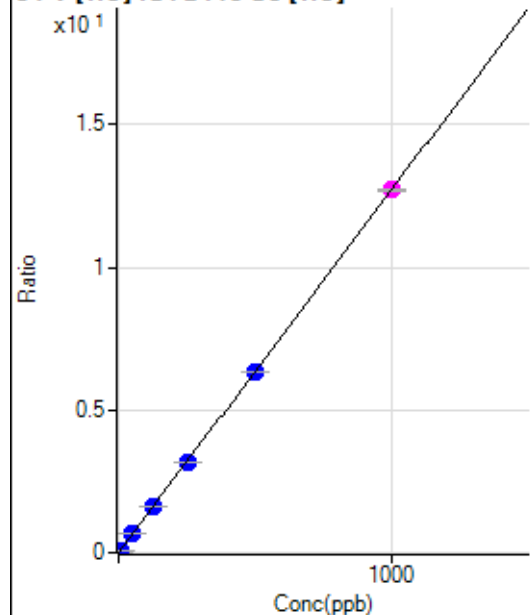
$$R = 1.0000$$

$$DL = 0.03443$$

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	23.33	0.0001	P	28.6
2	☐	0.500	0.498	2805.87	0.0064	P	2.1
3	☐	5.000	5.011	27964.48	0.0638	P	0.7
4	☐	50.000	50.531	280479.44	0.6426	P	0.7
5	☐	125.000	125.506	676955.34	1.5959	P	0.6
6	☐	250.000	250.691	1307999.34	3.1877	P	0.2
7	☐	500.000	499.684	2566759.65	6.3537	P	0.4
8	☐	1000.000	999.895	5112780.10	12.7140	M	0.3
9	☐			2488.03	0.0060	P	2.2

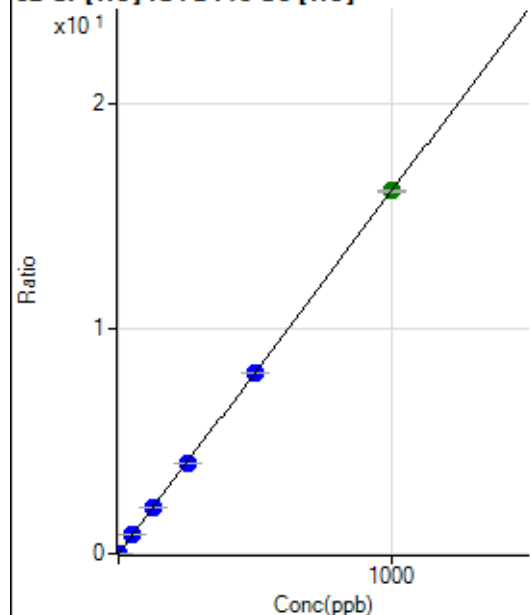
$$y = 0.0127 * x + 5.3745\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.003628$$

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	1308.97	0.0030	P	9.1
2	☐	0.200	0.185	2633.61	0.0060	P	5.6
3	☐	2.000	2.100	16152.37	0.0368	P	2.2
4	☐	50.000	51.024	359996.27	0.8247	P	0.6
5	☐	125.000	125.117	856001.09	2.0180	P	0.6
6	☐	250.000	250.925	1659396.21	4.0441	P	0.4
7	☐	500.000	498.502	3244439.47	8.0312	P	0.4
8	☐	1000.000	1000.452	6480108.58	16.1149	A	0.7
9	☐			270806.96	0.6496	P	0.5

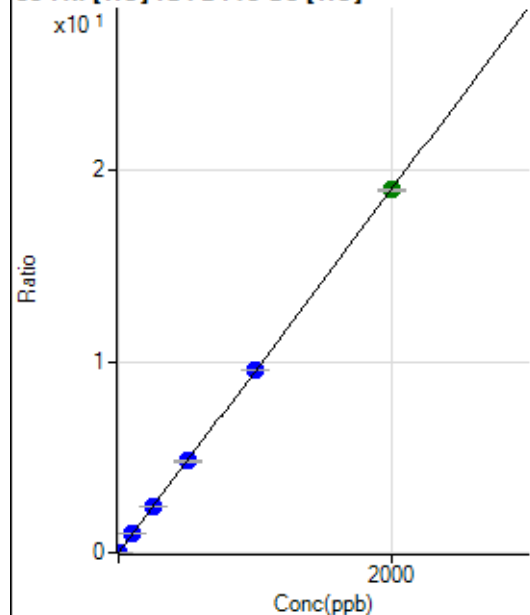
$$y = 0.0161 * x + 0.0030$$

$$R = 1.0000$$

$$DL = 0.05085$$

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	100.00	0.0002	P	5.9
2	☐	0.100	0.096	502.24	0.0011	P	7.6
3	☐	1.000	1.041	4440.75	0.0101	P	3.1
4	☐	100.000	101.865	422643.43	0.9683	P	0.7
5	☐	250.000	251.421	1013600.44	2.3895	P	0.9
6	☐	500.000	502.953	1961325.18	4.7799	P	0.2
7	☐	1000.000	1004.019	3854565.67	9.5415	P	0.6
8	☐	2000.000	1996.981	7631426.55	18.9778	A	0.3
9	☐			46085.44	0.1105	P	0.4

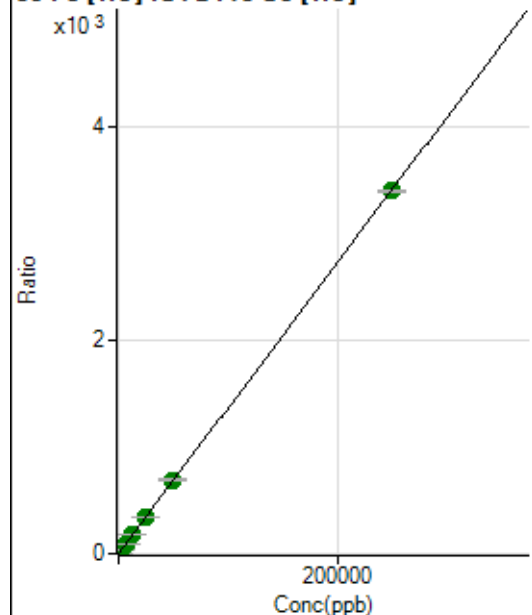
$$y = 0.0095 * x + 2.3036E-004$$

$$R = 1.0000$$

$$DL = 0.004308$$

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	10439.15	0.0240	P	4.1
2	☐	5.000	4.881	39811.87	0.0905	P	1.4
3	☐	50.000	51.715	319519.00	0.7286	P	0.6
4	☐	2500.000	2579.811	15353126.50	35.1732	A	0.4
5	☐	6250.000	6396.292	36976172.12	87.1715	A	1.1
6	☐	12500.000	12868.358	71952949.76	175.3514	A	0.4
7	☐	25000.000	25708.548	141512054.09	350.2950	A	0.1
8	☐	50000.000	50948.324	279141772.91	694.1790	A	0.6
9	☐	250000.00	249716.60	1418310594.6	3,402.334	A	0.4

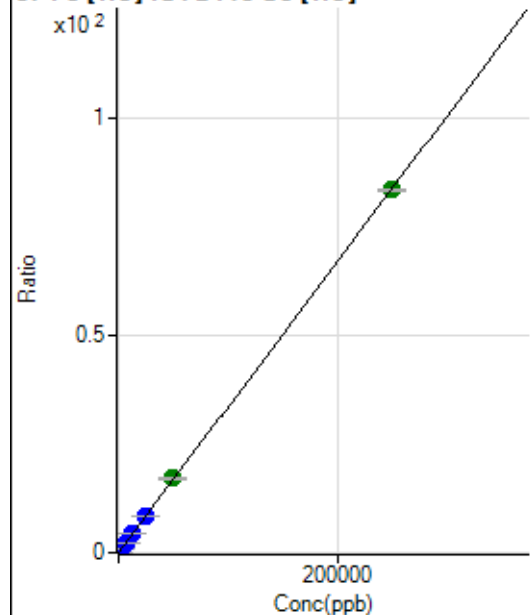
$$y = 0.0136 * x + 0.0240$$

$$R = 1.0000$$

$$DL = 0.2197$$

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	368.53	0.0008	P	22.7
2	☐	5.000	4.606	1050.07	0.0024	P	6.7
3	☐	50.000	54.323	8334.07	0.0190	P	3.6
4	☐	2500.000	2603.463	380159.57	0.8709	P	0.2
5	☐	6250.000	6431.818	912112.82	2.1503	P	0.9
6	☐	12500.000	12850.043	1762489.81	4.2953	P	0.1
7	☐	25000.000	25685.957	3468138.91	8.5849	P	0.2
8	☐	50000.000	51064.390	6862789.62	17.0663	A	0.5
9	☐	250000.00	249695.44	34786278.32	83.4476	A	0.4

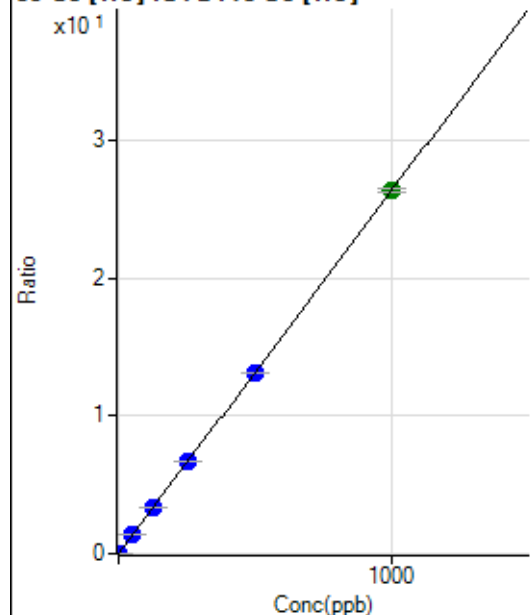
$$y = 3.3419E-004 * x + 8.4885E-004$$

$$R = 1.0000$$

$$DL = 1.726$$

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	378.90	0.0009	P	4.8
2	☐	0.100	0.108	1632.34	0.0037	P	3.4
3	☐	1.000	1.029	12290.86	0.0280	P	2.4
4	☐	50.000	51.438	592717.17	1.3579	P	0.4
5	☐	125.000	126.705	1418284.75	3.3435	P	0.5
6	☐	250.000	252.047	2728807.04	6.6502	P	0.2
7	☐	500.000	498.946	5317882.11	13.1638	P	0.7
8	☐	1000.000	999.730	10606048.11	26.3752	A	1.0
9	☐			19499.79	0.0468	P	1.1

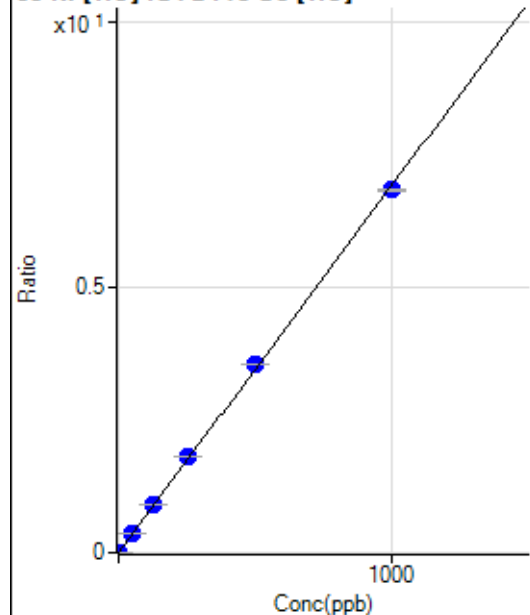
$$y = 0.0264 * x + 8.7275E-004$$

$$R = 1.0000$$

$$DL = 0.004807$$

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	102.23	0.0002	P	18.1
2	☐	0.100	0.117	460.02	0.0010	P	3.3
3	☐	1.000	1.156	3603.83	0.0082	P	2.6
4	☐	50.000	53.621	161677.63	0.3704	P	0.6
5	☐	125.000	131.613	385476.86	0.9088	P	1.0
6	☐	250.000	260.375	737630.12	1.7976	P	0.0
7	☐	500.000	514.869	1435918.59	3.5544	P	0.4
8	☐	1000.000	988.964	2745344.19	6.8272	P	0.6
9	☐			74910.26	0.1797	P	0.3

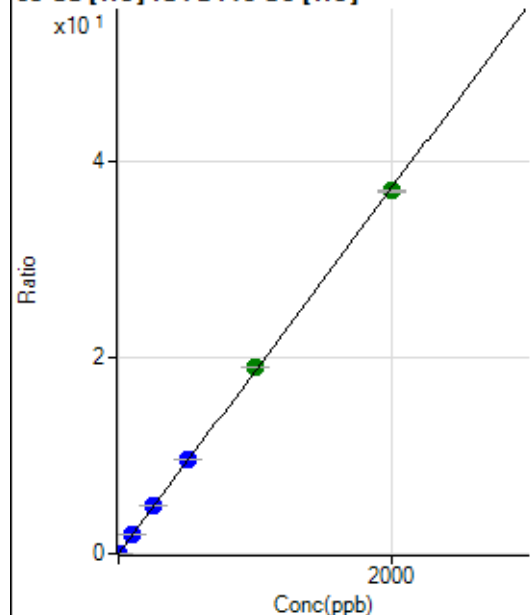
$$y = 0.0069 * x + 2.3550E-004$$

$$R = 0.9998$$

$$DL = 0.01852$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	602.25	0.0014	P	3.7
2	☐	0.200	0.219	2402.46	0.0055	P	4.0
3	☐	2.000	2.164	18273.81	0.0417	P	1.3
4	☐	100.000	106.129	862973.49	1.9770	P	0.2
5	☐	250.000	259.519	2049843.03	4.8324	P	0.6
6	☐	500.000	515.329	3936888.35	9.5944	P	0.2
7	☐	1000.000	1019.322	7666081.55	18.9764	A	0.1
8	☐	2000.000	1985.010	14859455.33	36.9530	A	0.7
9	☐			37288.72	0.0895	P	1.5

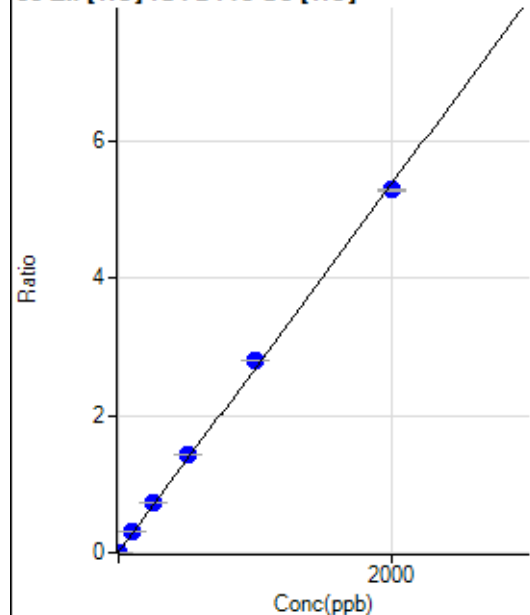
$$y = 0.0186 * x + 0.0014$$

$$R = 0.9999$$

$$DL = 0.008313$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1857.88	0.0043	P	3.4
2	☐	0.200	0.700	2708.26	0.0062	P	3.2
3	☐	2.000	2.598	4938.15	0.0113	P	2.1
4	☐	100.000	109.159	129926.90	0.2977	P	0.9
5	☐	250.000	270.610	310337.36	0.7316	P	0.5
6	☐	500.000	530.966	587295.57	1.4313	P	0.8
7	☐	1000.000	1040.712	1131649.14	2.8013	P	0.4
8	☐	2000.000	1968.868	2129514.42	5.2957	P	0.7
9	☐			12406.06	0.0298	P	2.0

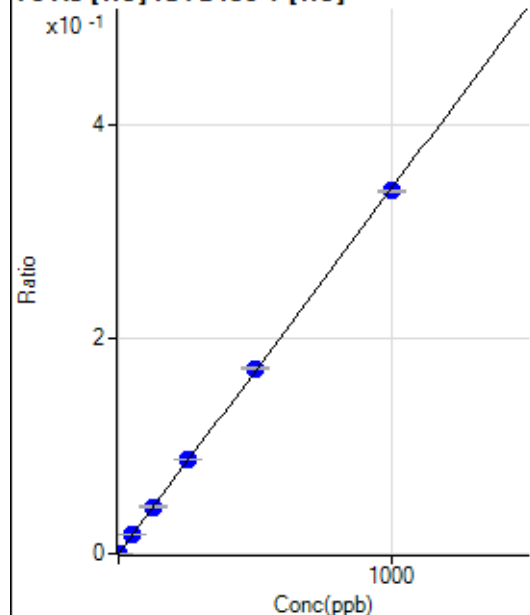
$$y = 0.0027 * x + 0.0043$$

$$R = 0.9995$$

$$DL = 0.1646$$

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	38.89	0.0000	P	14.5
2	☐	0.100	0.116	125.93	0.0001	P	9.1
3	☐	1.000	1.098	851.27	0.0004	P	2.3
4	☐	50.000	52.368	38711.89	0.0178	P	0.7
5	☐	125.000	128.983	92437.54	0.0439	P	0.7
6	☐	250.000	257.613	179654.52	0.0876	P	0.2
7	☐	500.000	507.589	348883.16	0.1725	P	0.6
8	☐	1000.000	993.686	680677.25	0.3377	P	0.3
9	☐			323.46	0.0002	P	4.1

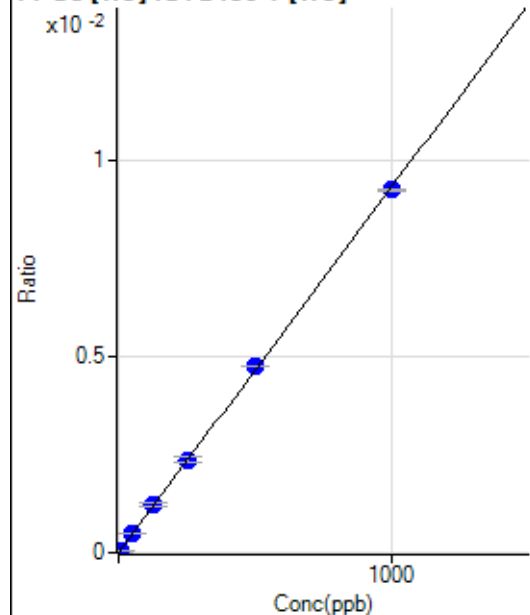
$$y = 3.3984\text{E-}004 * x + 1.8019\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.02312$$

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	2.22	0.0000	P	173.2
2	☐	0.500	0.819	18.89	0.0000	P	27.2
3	☐	5.000	5.330	110.01	0.0001	P	14.3
4	☐	50.000	54.419	1101.17	0.0005	P	1.6
5	☐	125.000	131.486	2578.06	0.0012	P	4.4
6	☐	250.000	254.427	4853.11	0.0024	P	5.0
7	☐	500.000	510.283	9592.20	0.0047	P	0.3
8	☐	1000.000	992.718	18596.58	0.0092	P	0.4
9	☐			17.78	0.0000	P	43.9

$$y = 9.2932\text{E-}006 * x + 1.0326\text{E-}006$$

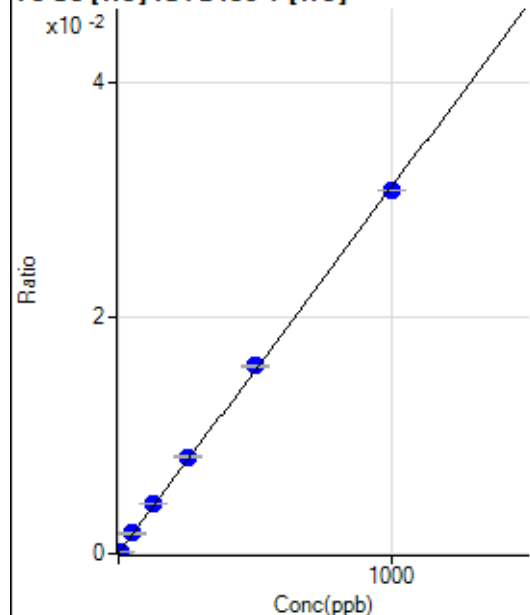
$$R = 0.9999$$

$$DL = 0.5774$$

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	112.35	0.0001	P	15.0
2	☐	0.500	0.579	153.09	0.0001	P	5.9
3	☐	5.000	5.998	518.53	0.0002	P	1.8
4	☐	50.000	54.400	3782.63	0.0017	P	3.4
5	☐	125.000	133.515	8845.97	0.0042	P	1.2
6	☐	250.000	263.070	16860.49	0.0082	P	1.9
7	☐	500.000	511.023	32184.42	0.0159	P	0.7
8	☐	1000.000	989.932	62040.39	0.0308	P	0.1
9	☐			159.26	0.0001	P	3.9

$$y = 3.1041\text{E-}005 * x + 5.2057\text{E-}005$$

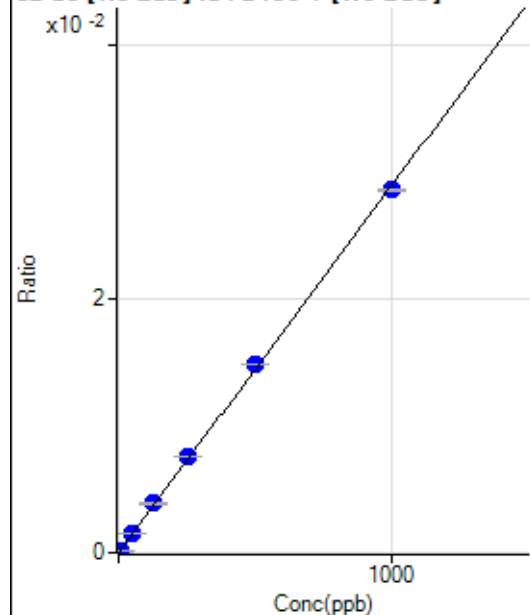
$$R = 0.9998$$

$$DL = 0.7554$$

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	-18.53	0.0000	P	-174.
2	☐	0.500	0.676	260.54	0.0000	P	17.5
3	☐	5.000	5.540	2282.49	0.0002	P	3.5
4	☐	50.000	54.021	22354.24	0.0016	P	1.0
5	☐	125.000	133.795	54747.29	0.0039	P	1.2
6	☐	250.000	261.741	104680.06	0.0076	P	0.4
7	☐	500.000	513.834	201939.33	0.0149	P	0.1
8	☐	1000.000	988.844	387054.35	0.0286	P	0.3
9	☐			344.54	0.0000	P	7.6

$$y = 2.8957\text{E-}005 * x - 1.3470\text{E-}006$$

$$R = 0.9998$$

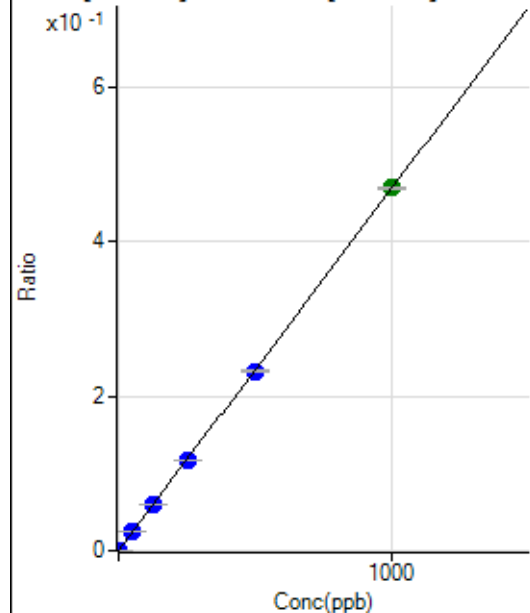
$$DL = 0.2439$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			822.26		P	2.2
2	☐			785.59		P	9.5
3	☐			787.81		P	3.9
4	☐			777.81		P	4.8
5	☐			781.15		P	3.1
6	☐			756.70		P	3.8
7	☐			748.92		P	5.9
8	☐			744.48		P	3.4
9	☐			826.70		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1191.77	0.0001	P	4.8
2	☐	0.100	0.124	2061.36	0.0001	P	3.7
3	☐	1.000	1.036	8191.59	0.0006	P	1.9
4	☐	50.000	50.620	339918.23	0.0238	P	0.6
5	☐	125.000	125.782	832953.19	0.0589	P	0.4
6	☐	250.000	248.518	1607064.53	0.1163	P	0.6
7	☐	500.000	496.461	3153333.38	0.2323	P	0.5
8	☐	1000.000	1002.011	6337341.46	0.4688	A	0.4
9	☐			33849.24	0.0026	P	0.6

$$y = 4.6778E-004 * x + 8.6292E-005$$

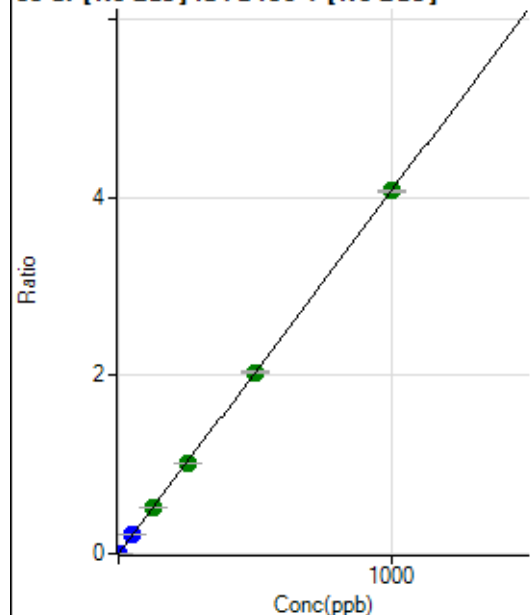
$$R = 1.0000$$

$$DL = 0.02631$$

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	311.13	0.0000	P	19.3
2	☐	0.100	0.103	6293.32	0.0004	P	7.9
3	☐	1.000	1.014	59616.23	0.0042	P	1.4
4	☐	50.000	50.427	2940516.04	0.2056	P	0.3
5	☐	125.000	124.867	7195660.40	0.5090	A	0.2
6	☐	250.000	248.917	14017660.04	1.0147	A	0.2
7	☐	500.000	500.796	27709345.41	2.0415	A	0.6
8	☐	1000.000	999.868	55098192.20	4.0760	A	0.4
9	☐			288236.06	0.0218	P	0.7

$$y = 0.0041 * x + 2.2536E-005$$

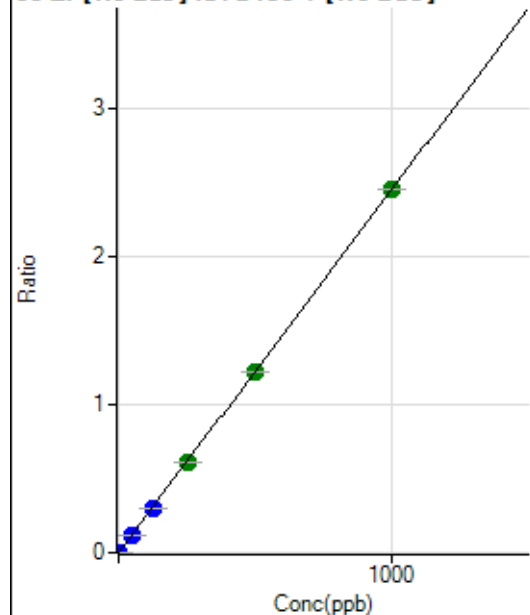
$$R = 1.0000$$

$$DL = 0.003196$$

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	1177.88	0.0001	P	8.7
2	☐	0.100	0.099	4700.96	0.0003	P	6.7
3	☐	1.000	1.012	36798.45	0.0026	P	1.2
4	☐	50.000	49.756	1745680.33	0.1221	P	0.7
5	☐	125.000	123.432	4278219.97	0.3027	P	0.1
6	☐	250.000	248.539	8417184.91	0.6093	A	0.5
7	☐	500.000	500.708	16660810.10	1.2275	A	0.1
8	☐	1000.000	1000.219	33145113.59	2.4519	A	0.1
9	☐			18821.41	0.0014	P	3.0

$$y = 0.0025 * x + 8.5280E-005$$

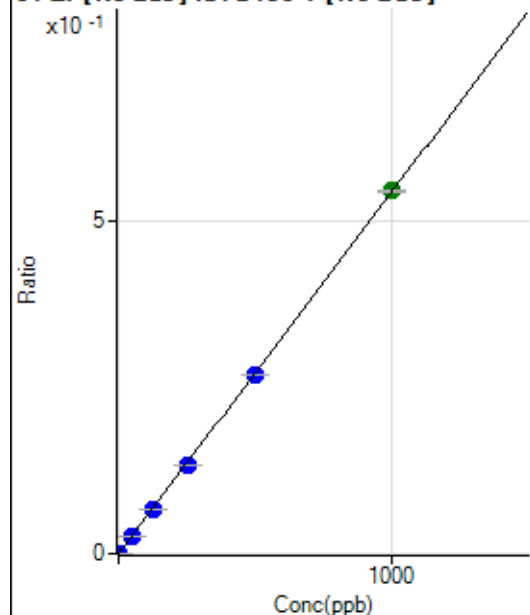
$$R = 1.0000$$

$$DL = 0.009061$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	216.68	0.0000	P	36.7
2	☐	0.100	0.116	1125.09	0.0001	P	10.7
3	☐	1.000	1.021	8163.79	0.0006	P	3.0
4	☐	50.000	50.180	389185.19	0.0272	P	0.7
5	☐	125.000	124.680	955352.51	0.0676	P	0.4
6	☐	250.000	246.883	1848477.28	0.1338	P	0.3
7	☐	500.000	494.222	3635706.68	0.2679	P	0.4
8	☐	1000.000	1003.699	7353243.22	0.5440	A	0.2
9	☐			4034.09	0.0003	P	6.7

$$y = 5.4194\text{E-}004 * x + 1.5692\text{E-}005$$

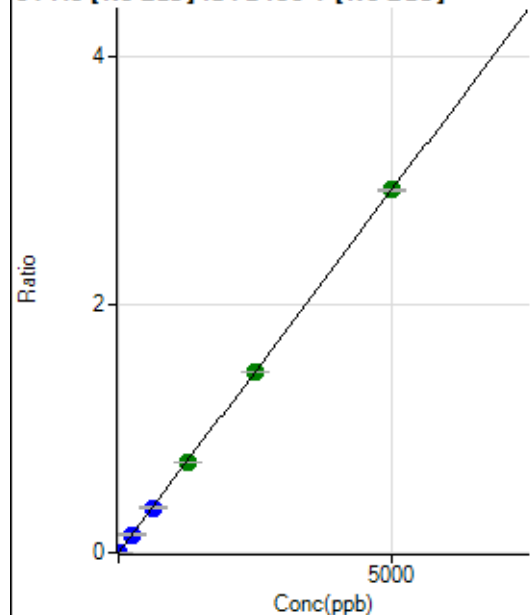
$$R = 1.0000$$

$$DL = 0.0319$$

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	513.92	0.0000	P	10.5
2	☐	0.500	0.507	4756.56	0.0003	P	7.9
3	☐	5.000	5.033	42656.57	0.0030	P	1.6
4	☐	250.000	251.457	2098375.07	0.1467	P	0.8
5	☐	625.000	623.343	5140185.18	0.3636	P	0.3
6	☐	1250.000	1241.417	10003483.56	0.7242	A	0.5
7	☐	2500.000	2494.188	19747715.89	1.4549	A	0.1
8	☐	5000.000	5005.186	39466063.04	2.9196	A	0.5
9	☐			47083.99	0.0036	P	1.7

$$y = 5.8330\text{E-}004 * x + 3.7207\text{E-}005$$

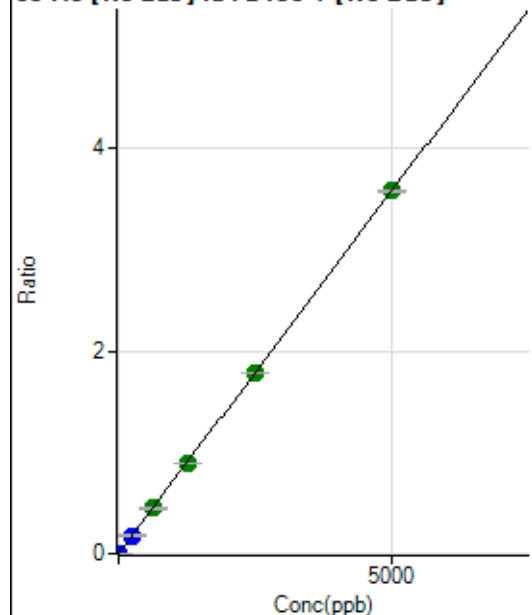
$$R = 1.0000$$

$$DL = 0.02013$$

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	197.23	0.0000	P	14.5
2	☐	0.500	0.479	5103.90	0.0004	P	2.3
3	☐	5.000	5.032	51842.55	0.0036	P	1.7
4	☐	250.000	251.838	2576685.45	0.1802	P	0.4
5	☐	625.000	623.807	6307625.40	0.4462	A	0.3
6	☐	1250.000	1244.269	12294919.72	0.8900	A	0.2
7	☐	2500.000	2493.800	24212355.58	1.7838	A	0.3
8	☐	5000.000	5004.590	48390796.92	3.5798	A	0.2
9	☐			69045.47	0.0052	P	0.6

$$y = 7.1529E-004 * x + 1.4277E-005$$

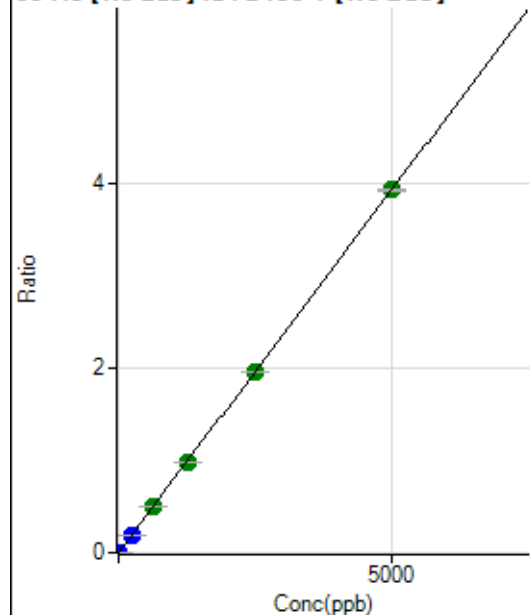
$$R = 1.0000$$

$$DL = 0.008659$$

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	355.58	0.0000	P	12.2
2	☐	0.500	0.500	5990.40	0.0004	P	6.4
3	☐	5.000	4.971	56462.60	0.0039	P	0.6
4	☐	250.000	250.812	2822069.55	0.1973	P	0.2
5	☐	625.000	624.908	6948631.14	0.4916	A	0.5
6	☐	1250.000	1246.191	13541053.77	0.9802	A	0.3
7	☐	2500.000	2495.548	26643726.98	1.9630	A	0.2
8	☐	5000.000	5003.149	53197608.83	3.9354	A	0.4
9	☐			90064.47	0.0068	P	1.4

$$y = 7.8657E-004 * x + 2.5756E-005$$

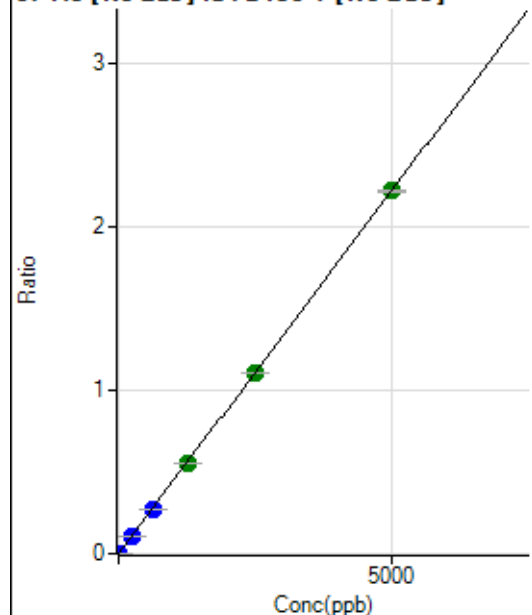
$$R = 1.0000$$

$$DL = 0.01197$$

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	133.34	0.0000	P	6.5
2	☐	0.500	0.514	3397.79	0.0002	P	4.4
3	☐	5.000	4.889	31262.93	0.0022	P	1.6
4	☐	250.000	249.613	1584266.06	0.1108	P	0.7
5	☐	625.000	619.800	3887655.08	0.2750	P	0.0
6	☐	1250.000	1247.046	7643644.35	0.5533	A	0.6
7	☐	2500.000	2500.595	15060249.12	1.1096	A	0.2
8	☐	5000.000	5001.110	29997080.88	2.2191	A	0.4
9	☐			42776.27	0.0032	P	3.4

$$y = 4.4371\text{E-}004 * x + 9.6564\text{E-}006$$

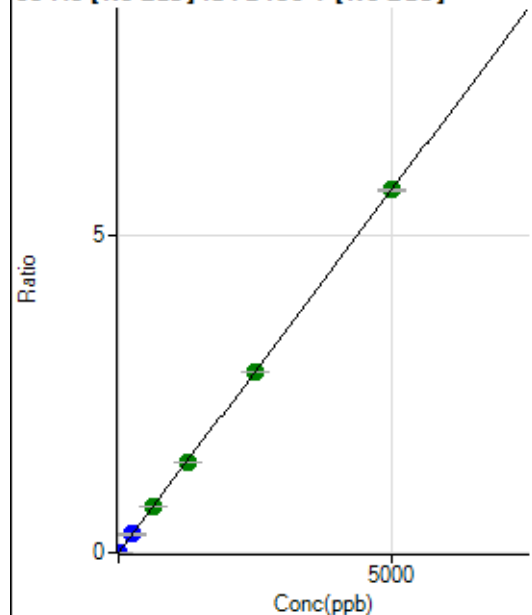
$$R = 1.0000$$

$$DL = 0.004216$$

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	316.68	0.0000	P	19.7
2	☐	0.500	0.529	8972.69	0.0006	P	2.4
3	☐	5.000	4.923	81155.98	0.0057	P	1.2
4	☐	250.000	252.287	4129936.07	0.2888	P	0.5
5	☐	625.000	625.079	10112470.88	0.7154	A	0.5
6	☐	1250.000	1244.906	19680876.66	1.4247	A	0.6
7	☐	2500.000	2499.202	38822006.77	2.8602	A	0.3
8	☐	5000.000	5001.548	77376192.01	5.7240	A	0.5
9	☐			111740.81	0.0084	P	1.7

$$y = 0.0011 * x + 2.2927\text{E-}005$$

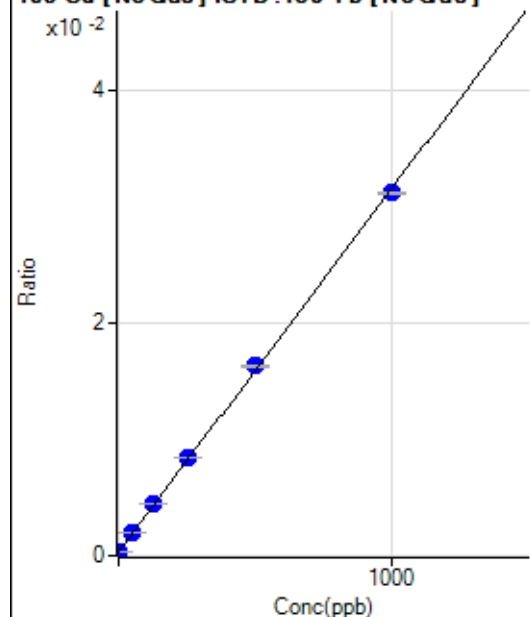
$$R = 1.0000$$

$$DL = 0.01182$$

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	5548.54	0.0003	P	2.0
2	☐	0.100	-0.082	5731.99	0.0003	P	5.3
3	☐	1.000	0.773	6237.76	0.0003	P	1.8
4	☐	50.000	53.721	36784.94	0.0020	P	0.7
5	☐	125.000	133.676	82009.20	0.0045	P	0.2
6	☐	250.000	259.967	152824.81	0.0084	P	1.4
7	☐	500.000	514.038	293954.04	0.0163	P	1.0
8	☐	1000.000	989.219	560692.56	0.0312	P	0.8
9	☐			5462.40	0.0003	P	2.8

$$y = 3.1189\text{E-}005 * x + 3.1514\text{E-}004$$

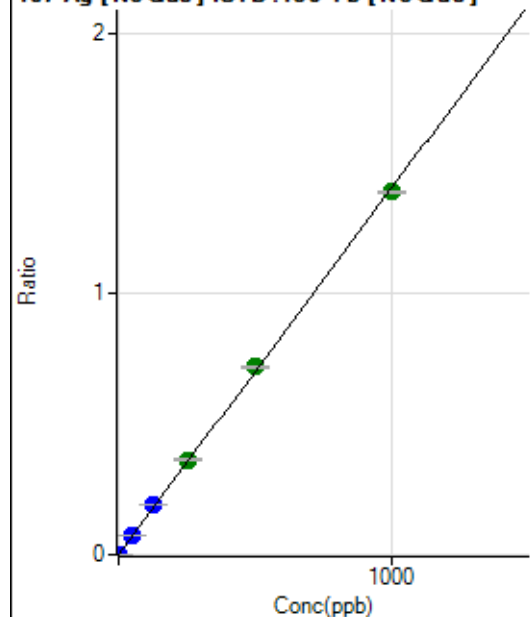
$$R = 0.9998$$

$$DL = 0.5998$$

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	147.23	0.0000	P	22.7
2	☐	0.100	0.116	3142.16	0.0002	P	3.6
3	☐	1.000	1.074	27889.56	0.0015	P	2.4
4	☐	50.000	54.513	1414993.78	0.0766	P	0.4
5	☐	125.000	134.068	3443748.78	0.1883	P	0.3
6	☐	250.000	259.132	6603894.46	0.3640	A	1.1
7	☐	500.000	512.545	12944696.03	0.7199	A	0.4
8	☐	1000.000	990.085	25016293.27	1.3906	A	0.5
9	☐			3945.17	0.0002	P	5.8

$$y = 0.0014 * x + 8.3604\text{E-}006$$

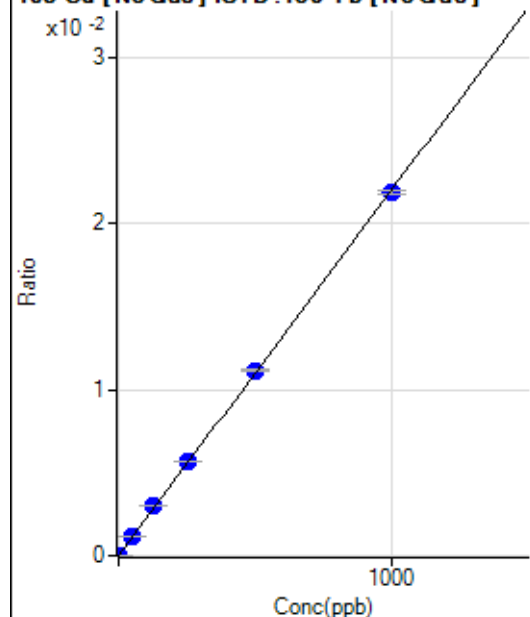
$$R = 0.9998$$

$$DL = 0.00406$$

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	11.11	0.0000	P	43.4
2	☐	0.100	0.185	86.11	0.0000	P	17.1
3	☐	1.000	1.139	472.24	0.0000	P	11.0
4	☐	50.000	53.603	21801.78	0.0012	P	1.2
5	☐	125.000	135.539	54538.00	0.0030	P	0.8
6	☐	250.000	257.803	102910.74	0.0057	P	0.9
7	☐	500.000	507.560	200783.62	0.0112	P	0.2
8	☐	1000.000	992.772	392883.27	0.0218	P	1.1
9	☐			115.28	0.0000	P	22.6

$$y = 2.1998\text{E-}005 * x + 6.3117\text{E-}007$$

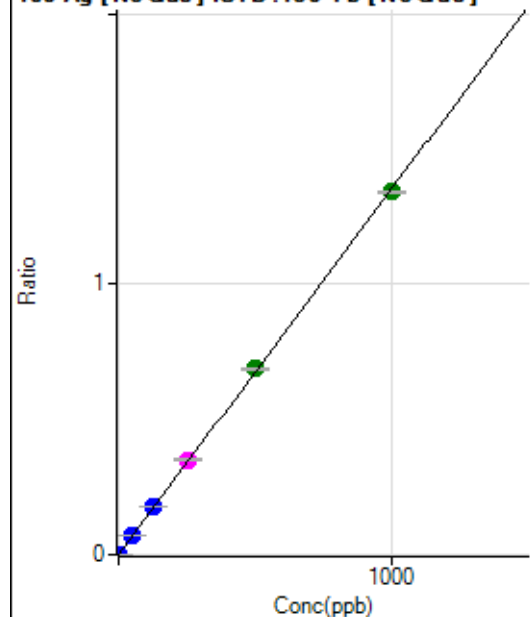
$$R = 0.9999$$

$$DL = 0.03738$$

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	97.23	0.0000	P	17.7
2	☐	0.100	0.111	2842.10	0.0002	P	7.0
3	☐	1.000	1.102	27519.50	0.0015	P	0.7
4	☐	50.000	54.175	1354191.00	0.0733	P	0.4
5	☐	125.000	133.094	3292246.32	0.1800	P	0.7
6	☐	250.000	259.321	6364323.93	0.3508	M	0.8
7	☐	500.000	507.963	12354771.80	0.6871	A	0.5
8	☐	1000.000	992.468	24149193.25	1.3424	A	0.8
9	☐			4059.10	0.0002	P	4.0

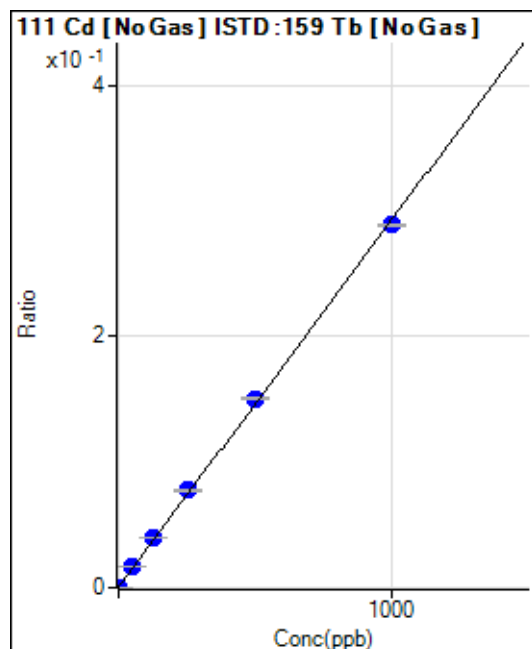
$$y = 0.0014 * x + 5.5213\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.002166$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3895.65	0.0002	P	1.9
2	☐	0.100	0.089	4536.86	0.0002	P	6.1
3	☐	1.000	1.063	9784.37	0.0005	P	1.1
4	☐	50.000	54.791	300289.48	0.0163	P	0.4
5	☐	125.000	135.814	730662.16	0.0400	P	0.4
6	☐	250.000	264.198	1406339.14	0.0775	P	0.7
7	☐	500.000	514.735	2711775.19	0.1508	P	0.9
8	☐	1000.000	987.491	5200971.91	0.2891	P	0.5
9	☐			4638.86	0.0003	P	2.9

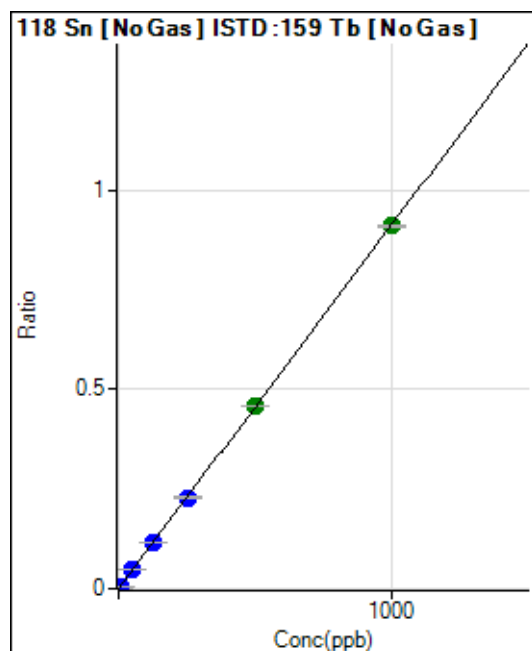
$$y = 2.9255E-004 * x + 2.2126E-004$$

$$R = 0.9997$$

$$DL = 0.04309$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1830.76	0.0001	P	0.7
2	☐	0.500	0.513	10495.66	0.0006	P	10.0
3	☐	5.000	5.098	87407.16	0.0048	P	0.6
4	☐	50.000	51.477	869537.41	0.0471	P	0.7
5	☐	125.000	127.128	2122383.56	0.1161	P	0.7
6	☐	250.000	250.730	4151124.18	0.2288	P	0.5
7	☐	500.000	504.045	8268706.87	0.4598	A	0.1
8	☐	1000.000	997.455	16368214.26	0.9099	A	0.6
9	☐			19711.74	0.0011	P	1.1

$$y = 9.1209E-004 * x + 1.0398E-004$$

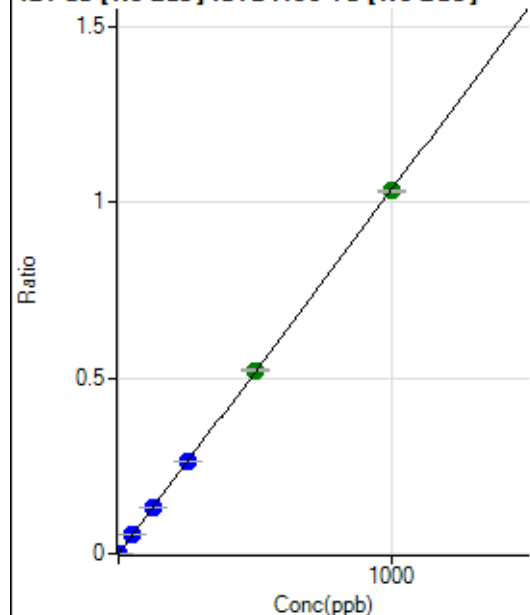
$$R = 1.0000$$

$$DL = 0.002302$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	169.45	0.0000	P	39.8
2	☐	0.200	0.209	4136.91	0.0002	P	3.3
3	☐	2.000	2.023	38659.63	0.0021	P	2.1
4	☐	50.000	51.667	988012.06	0.0535	P	0.8
5	☐	125.000	127.926	2420688.71	0.1324	P	0.6
6	☐	250.000	252.053	4731834.39	0.2608	P	0.2
7	☐	500.000	503.249	9363066.36	0.5207	A	0.7
8	☐	1000.000	997.413	18564988.44	1.0320	A	0.3
9	☐			25156.71	0.0014	P	2.6

$$y = 0.0010 * x + 9.6272E-006$$

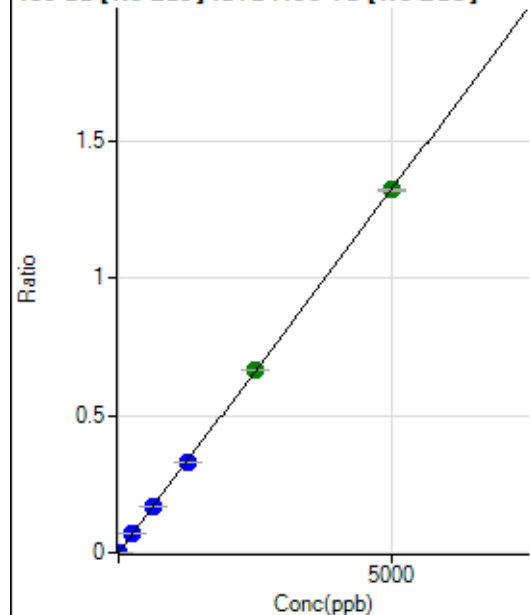
$$R = 1.0000$$

$$DL = 0.01112$$

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	83.34	0.0000	P	40.0
2	☐	1.000	1.017	5023.35	0.0003	P	4.1
3	☐	10.000	9.929	48427.08	0.0026	P	0.7
4	☐	250.000	253.905	1242469.16	0.0672	P	0.3
5	☐	625.000	631.893	3059987.24	0.1673	P	0.1
6	☐	1250.000	1248.376	5997609.59	0.3306	P	0.4
7	☐	2500.000	2507.563	11939607.99	0.6640	A	0.4
8	☐	5000.000	4995.568	23796341.85	1.3228	A	0.4
9	☐			6776.96	0.0004	P	4.5

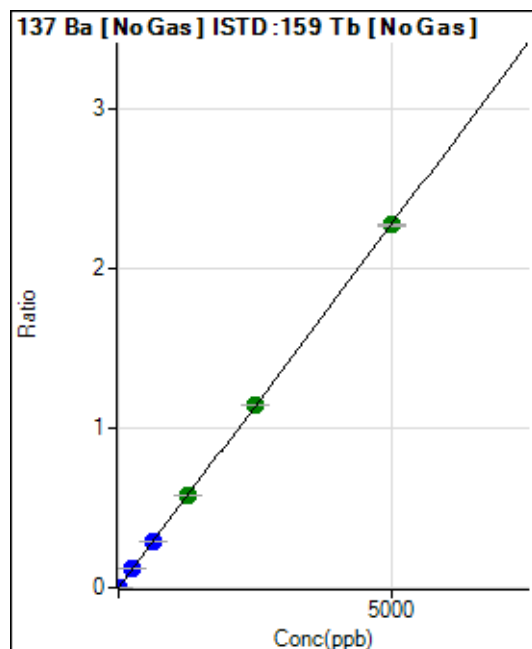
$$y = 2.6479E-004 * x + 4.7332E-006$$

$$R = 1.0000$$

$$DL = 0.02146$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	136.12	0.0000	P	12.6
2	☐	1.000	1.022	8694.77	0.0005	P	4.4
3	☐	10.000	10.208	85778.48	0.0047	P	0.8
4	☐	250.000	256.541	2163083.95	0.1171	P	0.4
5	☐	625.000	636.203	5308493.69	0.2903	P	0.4
6	☐	1250.000	1258.626	10419349.63	0.5743	A	0.2
7	☐	2500.000	2511.797	20607487.27	1.1460	A	0.2
8	☐	5000.000	4990.217	40959035.64	2.2768	A	0.4
9	☐			11869.43	0.0007	P	1.9

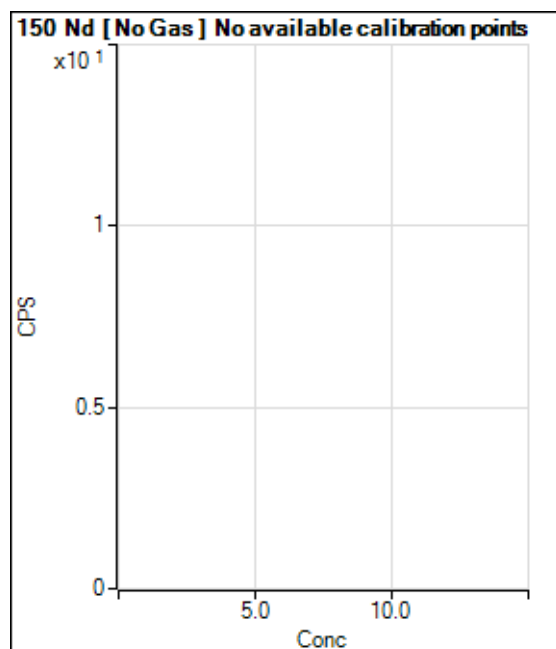
$$y = 4.5625E-004 * x + 7.7305E-006$$

$$R = 1.0000$$

$$DL = 0.006426$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	100.0
2	☐			8.89		P	114.5
3	☐			8.89		P	43.3
4	☐			80.00		P	36.3
5	☐			197.79		P	7.0
6	☐			413.36		P	15.6
7	☐			842.28		P	6.4
8	☐			1446.80		P	6.2
9	☐			366.69		P	25.3

150 Nd [He] No available calibration points

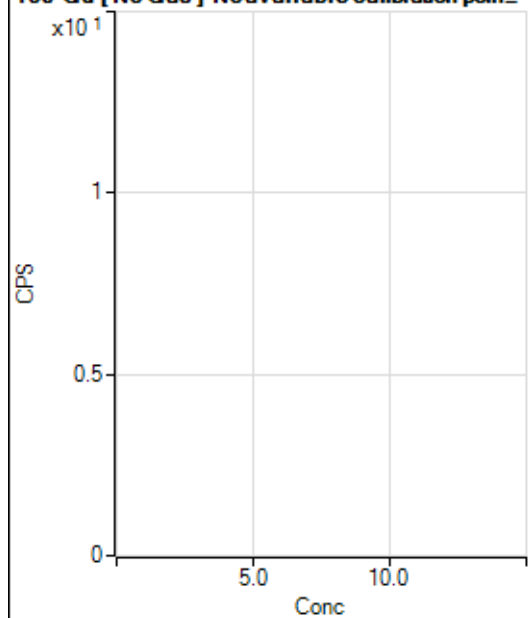
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			4.44		P	114.6
3	☐			3.33		P	100.1
4	☐			12.22		P	68.7
5	☐			25.55		P	27.1
6	☐			46.67		P	21.4
7	☐			92.23		P	5.5
8	☐			126.67		P	36.2
9	☐			132.23		P	12.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	86.6
2	☐			22.22		P	57.3
3	☐			19.44		P	49.5
4	☐			27.78		P	17.3
5	☐			63.89		P	39.8
6	☐			141.67		P	15.6
7	☐			225.01		P	13.4
8	☐			319.46		P	12.3
9	☐			219.46		P	9.6

156 Dy [He] No available calibration points

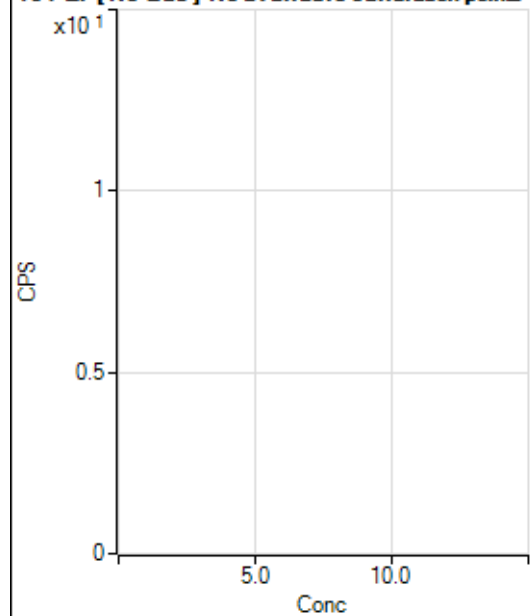
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			6.67		P	0.0
3	☐			6.67		P	50.0
4	☐			22.22		P	22.9
5	☐			40.00		P	0.0
6	☐			82.23		P	11.7
7	☐			156.67		P	2.1
8	☐			288.90		P	6.6
9	☐			68.89		P	47.7

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			130.56		P	3.7
2	☐			163.90		P	20.5
3	☐			147.23		P	26.8
4	☐			130.56		P	3.7
5	☐			133.34		P	18.7
6	☐			130.56		P	22.4
7	☐			255.57		P	1.9
8	☐			222.23		P	11.5
9	☐			255.57		P	16.4

160 Gd [He] No available calibration points

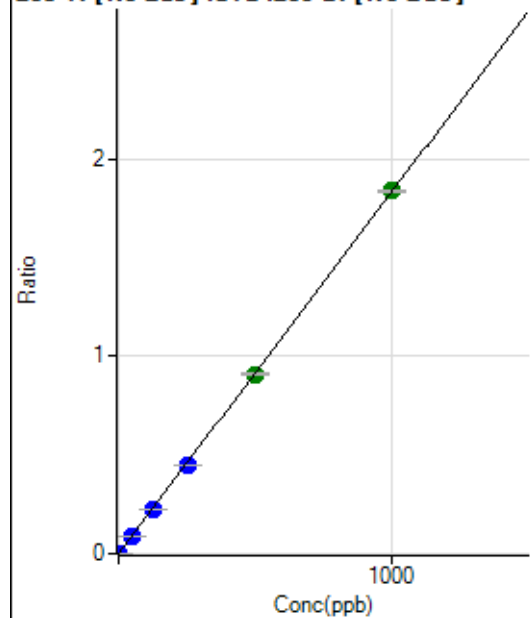
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			236.68		P	9.8
2	☐			234.45		P	16.5
3	☐			208.90		P	11.8
4	☐			238.89		P	10.1
5	☐			223.34		P	4.5
6	☐			223.34		P	6.5
7	☐			242.23		P	27.3
8	☐			280.01		P	18.6
9	☐			280.01		P	7.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	50.0
2	☐			72.23		P	24.0
3	☐			105.56		P	24.1
4	☐			63.89		P	19.9
5	☐			77.78		P	6.2
6	☐			66.67		P	12.5
7	☐			111.12		P	35.4
8	☐			102.78		P	12.4
9	☐			69.45		P	34.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	34.3
2	☐			32.22		P	43.1
3	☐			43.33		P	27.7
4	☐			31.11		P	30.9
5	☐			44.44		P	17.3
6	☐			33.33		P	43.6
7	☐			44.44		P	18.9
8	☐			42.22		P	29.9
9	☐			58.89		P	13.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	205.57	0.0000	P	11.5
2	☐	0.100	0.098	2436.46	0.0002	P	4.2
3	☐	1.000	0.974	22135.97	0.0018	P	2.0
4	☐	50.000	48.880	1093273.48	0.0894	P	0.3
5	☐	125.000	121.675	2695812.62	0.2226	P	0.9
6	☐	250.000	242.896	5312912.10	0.4444	P	0.5
7	☐	500.000	497.250	10624660.83	0.9098	A	0.3
8	☐	1000.000	1003.623	21003534.50	1.8362	A	0.9
9	☐			6401.81	0.0006	P	3.5

$$y = 0.0018 * x + 1.7552E-005$$

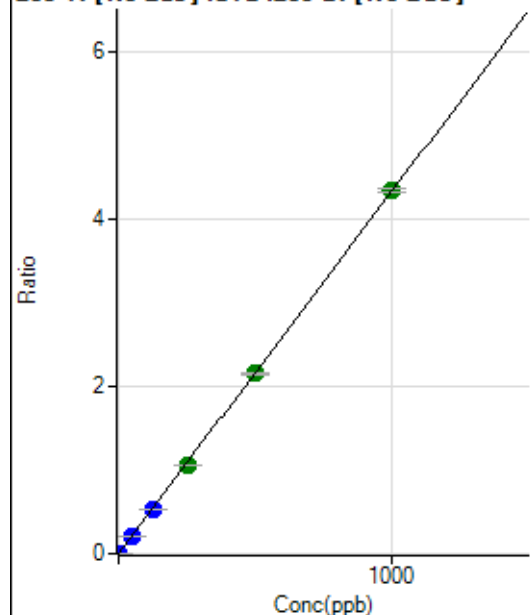
$$R = 1.0000$$

$$DL = 0.003299$$

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	544.48	0.0000	P	14.7
2	☐	0.100	0.105	6154.51	0.0005	P	3.5
3	☐	1.000	0.973	52343.19	0.0043	P	0.3
4	☐	50.000	49.418	2613987.34	0.2139	P	0.3
5	☐	125.000	123.319	6461541.68	0.5336	P	0.5
6	☐	250.000	245.089	12678171.03	1.0605	A	0.1
7	☐	500.000	497.428	25135566.36	2.1523	A	0.3
8	☐	1000.000	1002.753	49627503.88	4.3388	A	1.2
9	☐			15534.66	0.0015	P	3.6

$$y = 0.0043 * x + 4.6488E-005$$

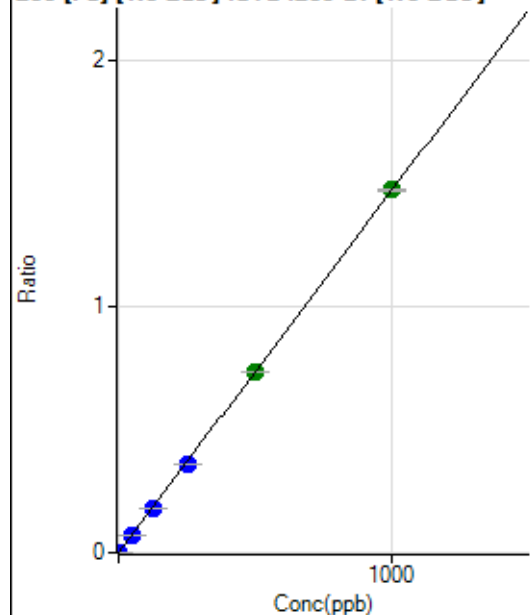
$$R = 1.0000$$

$$DL = 0.004731$$

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	1050.08	0.0001	P	3.8
2	☐	0.100	0.092	2765.19	0.0002	P	0.5
3	☐	1.000	0.986	18943.55	0.0015	P	0.4
4	☐	50.000	49.264	886650.82	0.0725	P	0.6
5	☐	125.000	122.934	2190404.28	0.1809	P	0.3
6	☐	250.000	243.776	4287212.71	0.3586	P	0.3
7	☐	500.000	497.779	8550654.42	0.7322	A	0.1
8	☐	1000.000	1002.962	16873640.19	1.4752	A	0.8
9	☐			32278.62	0.0032	P	2.6

$$y = 0.0015 * x + 8.9668E-005$$

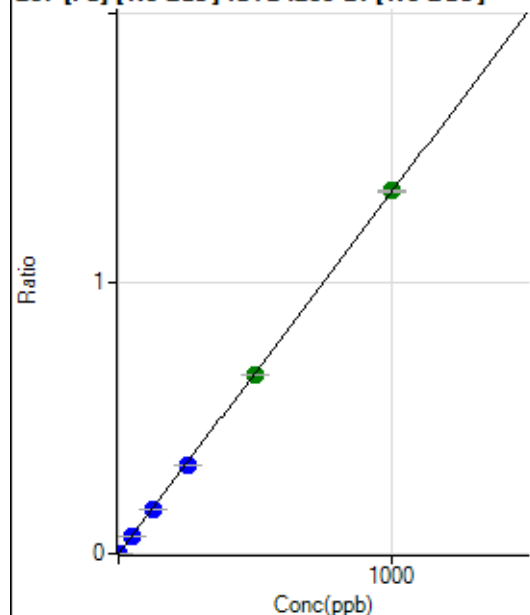
$$R = 1.0000$$

$$DL = 0.007002$$

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	948.22	0.0001	P	1.6
2	☐	0.100	0.093	2522.53	0.0002	P	5.2
3	☐	1.000	0.960	16773.96	0.0014	P	1.8
4	☐	50.000	48.930	800169.09	0.0655	P	0.4
5	☐	125.000	121.822	1972246.24	0.1629	P	0.8
6	☐	250.000	243.583	3892401.85	0.3256	P	0.5
7	☐	500.000	497.117	7759018.29	0.6644	A	0.0
8	☐	1000.000	1003.497	15340114.00	1.3411	A	0.7
9	☐			27187.61	0.0027	P	2.2

$$y = 0.0013 * x + 8.0975E-005$$

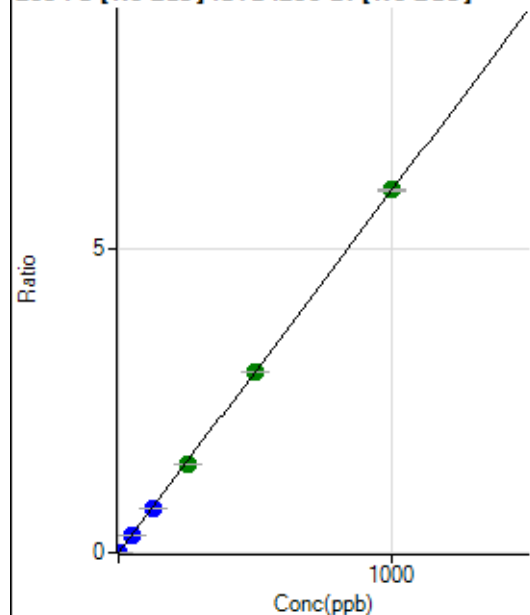
$$R = 1.0000$$

$$DL = 0.002946$$

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	4343.02	0.0004	P	2.5
2	☐	0.100	0.090	11170.70	0.0009	P	1.6
3	☐	1.000	0.975	76016.12	0.0062	P	0.8
4	☐	50.000	49.237	3590173.10	0.2937	P	0.2
5	☐	125.000	123.019	8879962.49	0.7333	P	0.4
6	☐	250.000	245.171	17467964.54	1.4611	A	0.4
7	☐	500.000	497.476	34619231.21	2.9644	A	0.1
8	☐	1000.000	1002.755	68345610.10	5.9750	A	0.5
9	☐			127114.25	0.0126	P	2.1

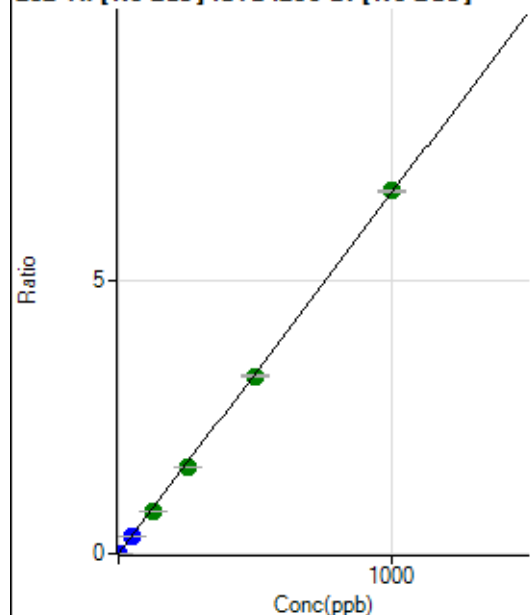
$$y = 0.0060 * x + 3.7086E-004$$

$$R = 1.0000$$

$$DL = 0.004639$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	468.54	0.0000	P	9.2
2	☐	0.100	0.095	8252.85	0.0007	P	1.8
3	☐	1.000	0.937	76578.79	0.0062	P	0.6
4	☐	50.000	47.395	3824956.11	0.3129	P	0.4
5	☐	125.000	119.077	9520007.85	0.7862	A	0.2
6	☐	250.000	241.829	19087368.94	1.5966	A	0.4
7	☐	500.000	493.114	38020274.46	3.2556	A	0.5
8	☐	1000.000	1006.356	75999000.77	6.6441	A	0.6
9	☐			17339.69	0.0017	P	6.8

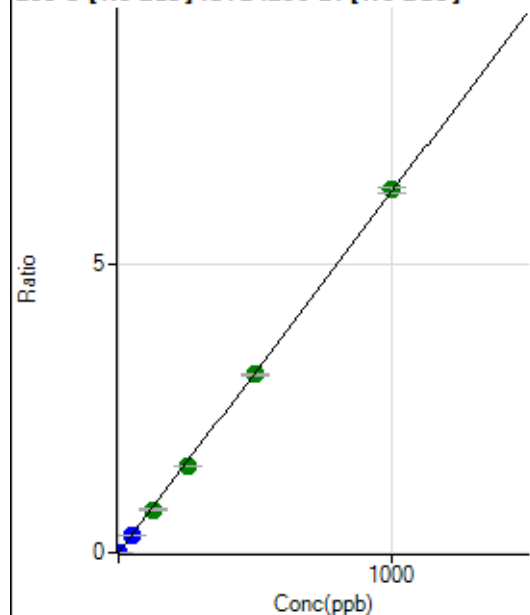
$$y = 0.0066 * x + 4.0014E-005$$

$$R = 0.9999$$

$$DL = 0.001668$$

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	422.25	0.0000	P	29.8
2	☐	0.100	0.095	7797.14	0.0006	P	2.2
3	☐	1.000	0.961	74589.31	0.0061	P	1.5
4	☐	50.000	47.723	3659728.86	0.2994	P	0.2
5	☐	125.000	119.600	9085909.06	0.7504	A	0.5
6	☐	250.000	241.345	18101311.17	1.5141	A	0.5
7	☐	500.000	494.697	36243776.16	3.1035	A	0.8
8	☐	1000.000	1005.604	72158562.03	6.3087	A	1.6
9	☐			15537.73	0.0015	P	4.8

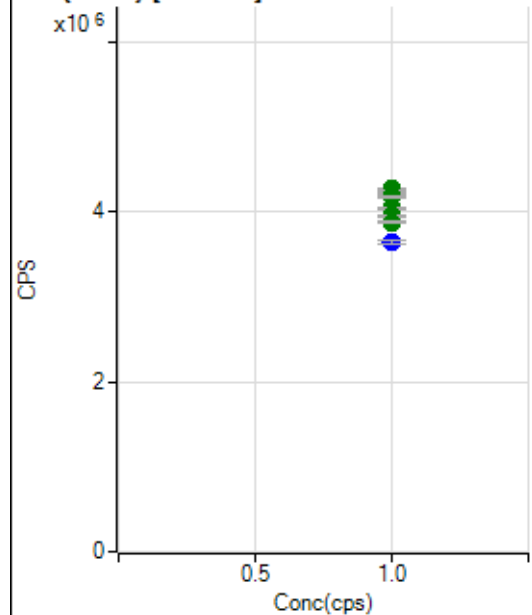
$$y = 0.0063 * x + 3.6070E-005$$

$$R = 0.9999$$

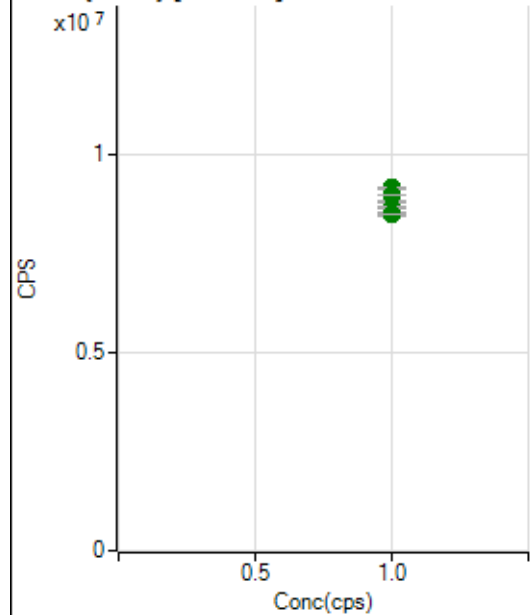
$$DL = 0.005144$$

Weight: <None>

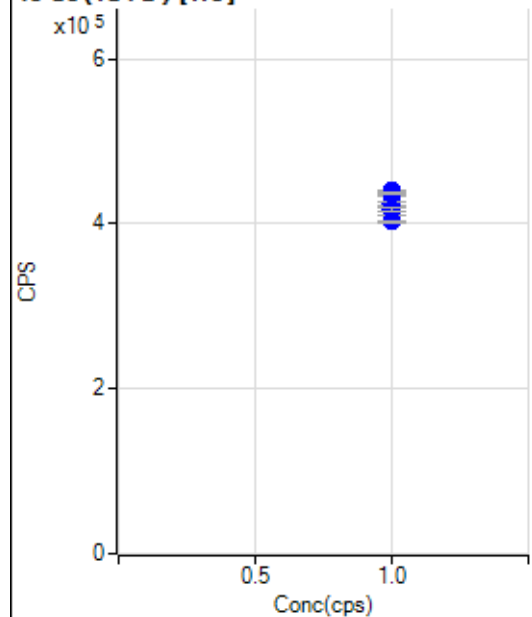
Min Conc: 0

6 Li (ISTD) [No Gas]

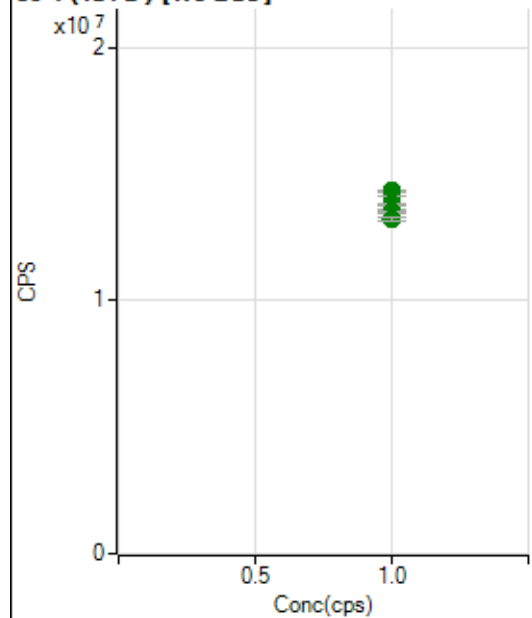
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4201700.11		A	0.6
2	☐	1.000		4264621.67		A	0.1
3	☐	1.000		4254837.96		A	1.1
4	☐	1.000		4231844.83		A	0.5
5	☐	1.000		4170620.08		A	0.3
6	☐	1.000		4040635.60		A	0.7
7	☐	1.000		3951320.36		A	0.5
8	☐	1.000		3874837.65		A	0.8
9	☐	1.000		3642570.08		P	1.2

45 Sc (ISTD) [No Gas]

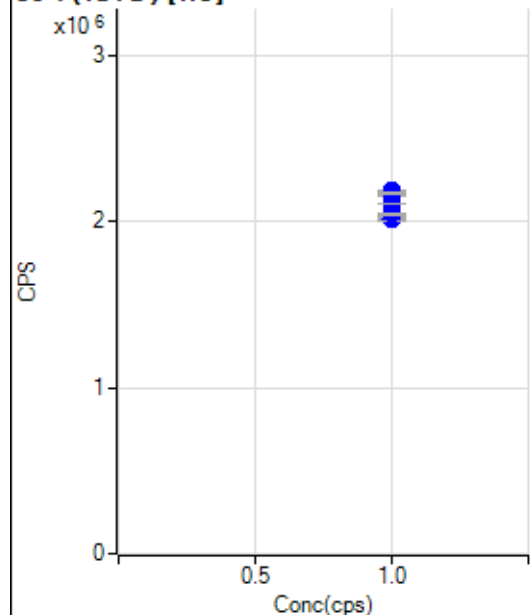
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8822161.57		A	0.4
2	☐	1.000		9156580.24		A	0.1
3	☐	1.000		9156414.79		A	0.6
4	☐	1.000		9146700.46		A	0.2
5	☐	1.000		8986498.12		A	0.3
6	☐	1.000		8661308.18		A	1.0
7	☐	1.000		8493247.50		A	0.6
8	☐	1.000		8498205.05		A	0.4
9	☐	1.000		8502798.28		A	0.3

45 Sc (ISTD) [He]

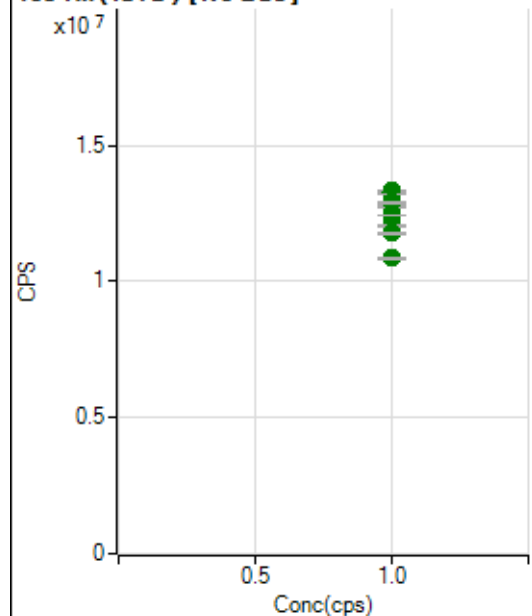
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		434147.12		P	0.3
2	☐	1.000		439671.33		P	0.5
3	☐	1.000		438506.15		P	0.8
4	☐	1.000		436505.26		P	0.4
5	☐	1.000		424201.48		P	1.0
6	☐	1.000		410333.17		P	0.3
7	☐	1.000		403980.00		P	0.2
8	☐	1.000		402131.02		P	0.8
9	☐	1.000		416871.91		P	0.9

89 Y (ISTD) [No Gas]

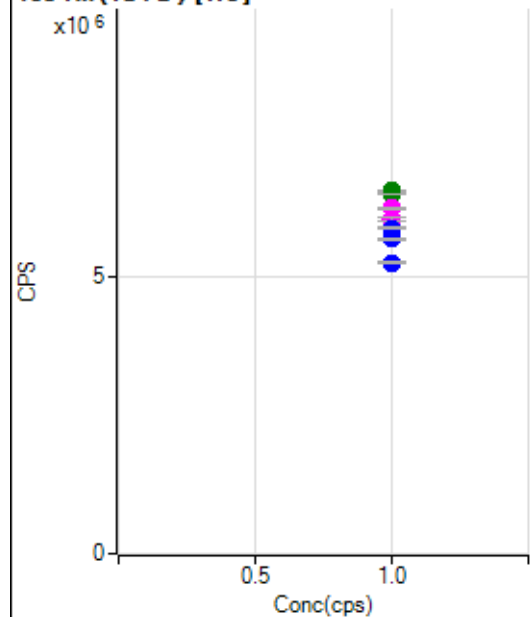
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13809807.85		A	0.4
2	☐	1.000		14290774.79		A	0.3
3	☐	1.000		14347264.51		A	0.6
4	☐	1.000		14302953.54		A	0.4
5	☐	1.000		14135729.93		A	0.3
6	☐	1.000		13814041.18		A	0.7
7	☐	1.000		13573254.10		A	0.5
8	☐	1.000		13517988.13		A	0.5
9	☐	1.000		13231340.50		A	0.8

89 Y(ISTD) [He]

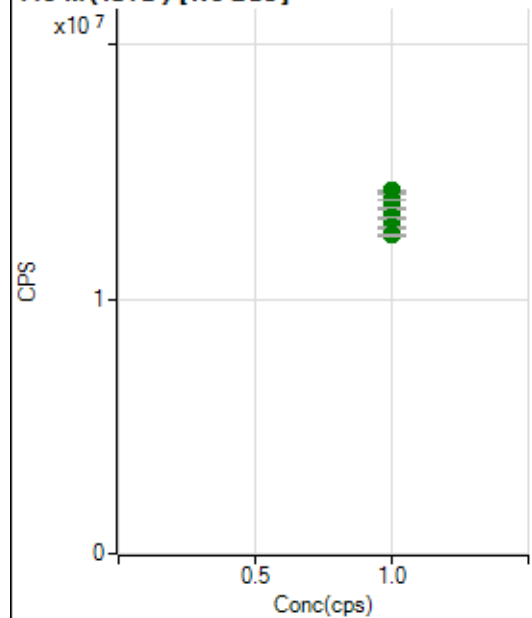
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2158658.94		P	0.3
2	☐	1.000		2186364.74		P	0.3
3	☐	1.000		2176553.92		P	0.5
4	☐	1.000		2172980.70		P	0.2
5	☐	1.000		2107919.32		P	0.3
6	☐	1.000		2051635.53		P	0.0
7	☐	1.000		2022309.43		P	0.3
8	☐	1.000		2015542.92		P	0.7
9	☐	1.000		2048950.56		P	0.5

103 Rh(ISTD) [No Gas]

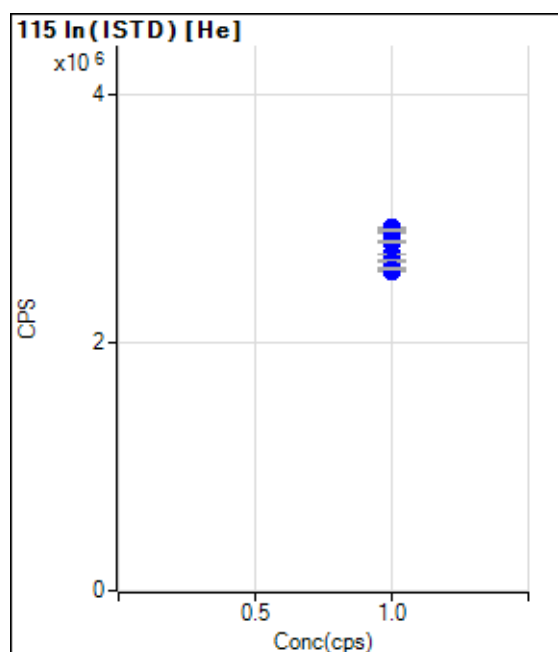
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12755475.54		A	0.5
2	☐	1.000		13320978.77		A	0.2
3	☐	1.000		13287775.99		A	1.0
4	☐	1.000		13199420.26		A	0.4
5	☐	1.000		12912276.16		A	0.5
6	☐	1.000		12428026.49		A	0.5
7	☐	1.000		12049783.43		A	0.6
8	☐	1.000		11779575.96		A	0.4
9	☐	1.000		10843402.84		A	0.6

103 Rh (ISTD) [He]

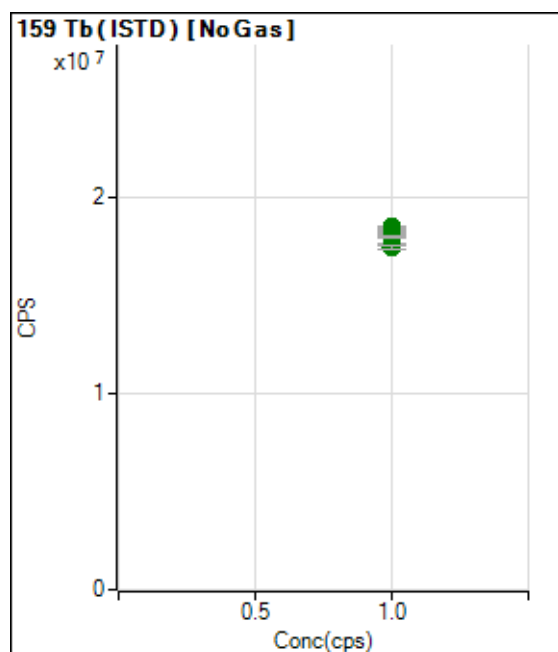
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6274147.89		A	0.1
2	☐	1.000		6563170.88		A	0.3
3	☐	1.000		6568083.17		A	0.6
4	☐	1.000		6506452.82		A	0.3
5	☐	1.000		6251902.34		M	0.9
6	☐	1.000		6065197.48		M	0.9
7	☐	1.000		5887795.40		P	0.5
8	☐	1.000		5696675.12		P	0.4
9	☐	1.000		5272165.41		P	0.5

115 In (ISTD) [No Gas]

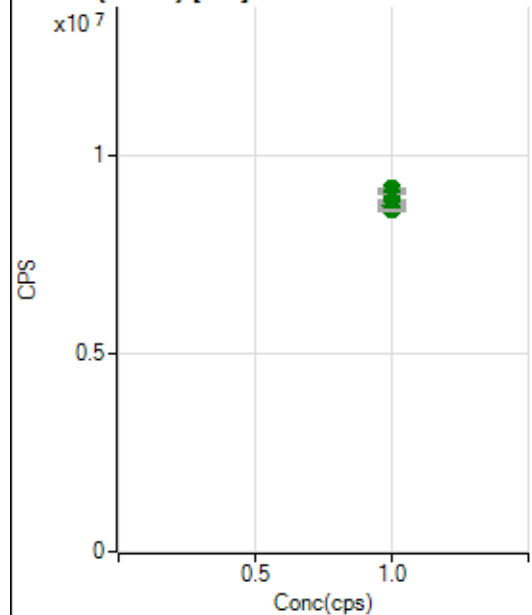
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13566724.08		A	0.2
2	☐	1.000		14240075.99		A	0.2
3	☐	1.000		14177310.72		A	0.7
4	☐	1.000		14103072.74		A	0.3
5	☐	1.000		13872047.78		A	0.2
6	☐	1.000		13519300.32		A	0.6
7	☐	1.000		13187137.51		A	0.8
8	☐	1.000		12804503.29		A	0.4
9	☐	1.000		12505683.92		A	0.7



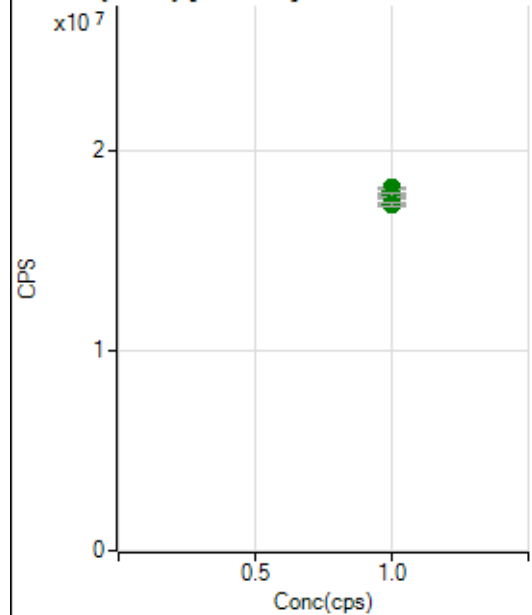
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2888480.54		P	0.3
2	☐	1.000		2923295.21		P	0.5
3	☐	1.000		2909625.15		P	0.4
4	☐	1.000		2907694.55		P	0.4
5	☐	1.000		2810800.39		P	0.4
6	☐	1.000		2712910.12		P	0.3
7	☐	1.000		2656503.37		P	0.1
8	☐	1.000		2573734.66		P	0.6
9	☐	1.000		2593666.97		P	0.9



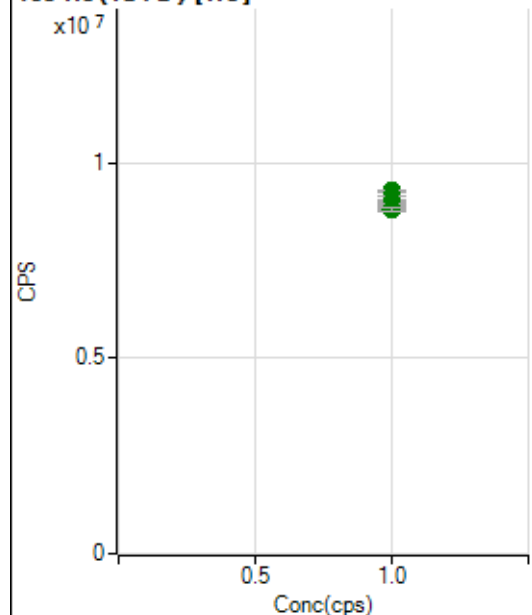
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17606484.46		A	0.1
2	☐	1.000		18338580.42		A	0.2
3	☐	1.000		18386561.39		A	0.6
4	☐	1.000		18479092.92		A	0.2
5	☐	1.000		18287784.73		A	0.4
6	☐	1.000		18143885.15		A	0.5
7	☐	1.000		17981689.46		A	0.2
8	☐	1.000		17989706.68		A	0.3
9	☐	1.000		17442535.16		A	0.8

159 Tb (ISTD) [He]

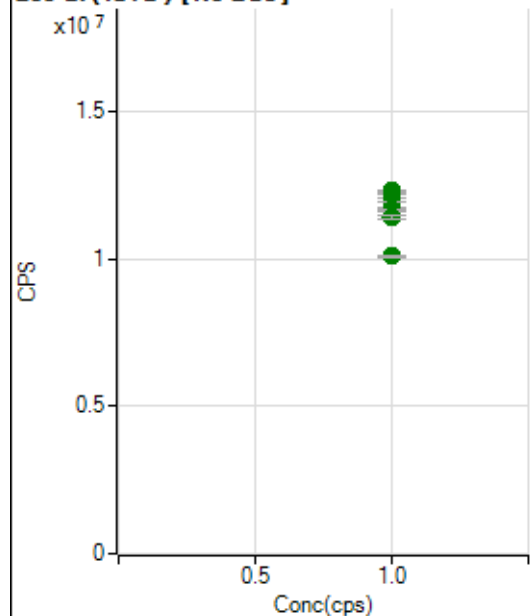
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8705152.23		A	0.8
2	☐	1.000		9143558.54		A	0.3
3	☐	1.000		9112767.36		A	1.0
4	☐	1.000		9148468.06		A	0.2
5	☐	1.000		9007788.55		A	0.0
6	☐	1.000		8840965.63		A	0.8
7	☐	1.000		8792888.69		A	0.3
8	☐	1.000		8719142.51		A	0.8
9	☐	1.000		8613288.27		A	0.8

165 Ho (ISTD) [No Gas]

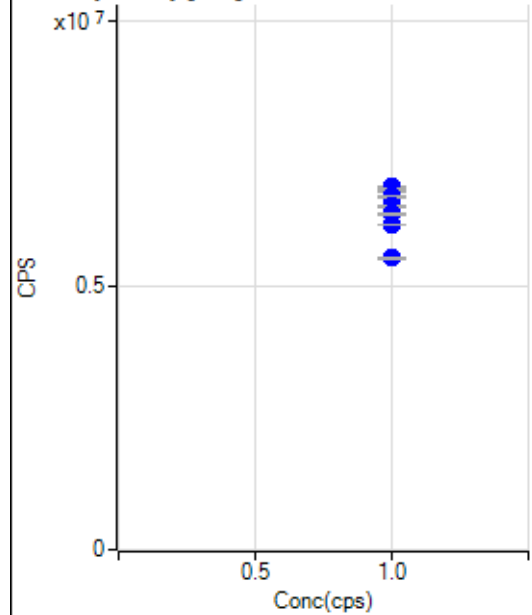
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17310430.59		A	0.2
2	☐	1.000		18157112.39		A	0.4
3	☐	1.000		18123967.07		A	0.8
4	☐	1.000		18157605.61		A	0.6
5	☐	1.000		18136533.74		A	0.5
6	☐	1.000		17964744.33		A	1.1
7	☐	1.000		17697833.03		A	0.7
8	☐	1.000		17818556.65		A	0.9
9	☐	1.000		17296984.93		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8804807.02		A	0.6
2	☐	1.000		9242761.81		A	0.3
3	☐	1.000		9263754.24		A	0.7
4	☐	1.000		9274160.21		A	0.2
5	☐	1.000		9149620.00		A	0.3
6	☐	1.000		8998784.73		A	0.5
7	☐	1.000		8962526.05		A	0.2
8	☐	1.000		8920583.96		A	0.1
9	☐	1.000		8793281.74		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11710264.97		A	0.3
2	☐	1.000		12325029.95		A	0.3
3	☐	1.000		12299332.04		A	0.3
4	☐	1.000		12222472.87		A	0.4
5	☐	1.000		12108905.65		A	0.2
6	☐	1.000		11954882.18		A	0.4
7	☐	1.000		11678274.41		A	0.5
8	☐	1.000		11439008.72		A	0.9
9	☐	1.000		10117397.97		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6781277.19		P	0.2
2	☐	1.000		6866967.12		P	0.2
3	☐	1.000		6826922.95		P	0.7
4	☐	1.000		6822177.19		P	0.7
5	☐	1.000		6686250.18		P	0.2
6	☐	1.000		6499680.60		P	0.3
7	☐	1.000		6359147.68		P	0.5
8	☐	1.000		6160403.59		P	0.1
9	☐	1.000		5515420.68		P	0.9

US EPA Tune Check Sample Report

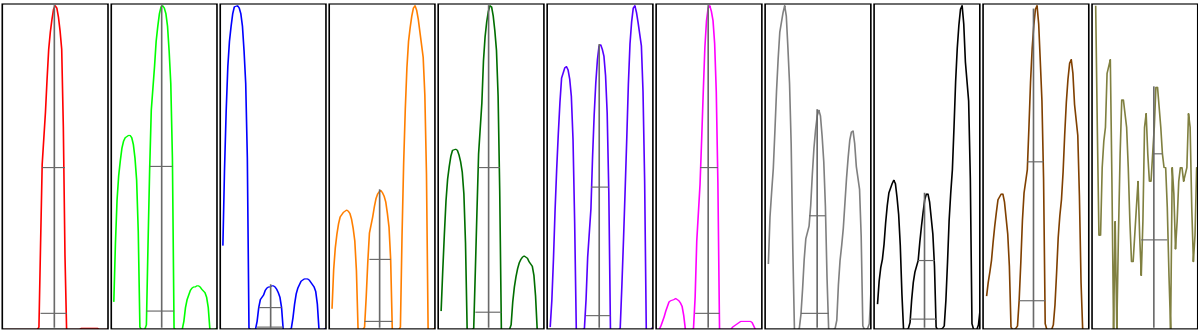
Batch Folder D:\ICP-MS Data\P7102118 .b.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	25422	0.30	5.00	
24	214498	0.27	5.00	
25	28571	0.38	5.00	
26	33324	0.41	5.00	
59	204079	0.36	5.00	
113	24512	0.37	5.00	
115	292290	0.08	5.00	
206	71177	0.32	5.00	
207	65636	0.56	5.00	
208	152592	0.26	5.00	
220	1	29.21		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	25318	25458	25501	25468	25364
24	215157	214916	214193	213701	214524
25	28696	28653	28533	28417	28555
26	33436	33472	33330	33239	33143
59	204820	204911	203680	203573	203409
113	24487	24623	24504	24383	24564
115	292540	292239	292141	292536	291996
206	71471	71196	71115	70839	71264
207	65886	65496	65466	65205	66126
208	153247	152227	152310	152665	152512
220	1	1	0	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	43712	9.00	8.9 - 9.1		0.781	0.900	
24	347981	23.95	23.9 - 24.1		0.786	0.900	
25	46830	24.95	24.9 - 25.1		0.781	0.900	
26	54450	25.95	25.9 - 26.1		0.785	0.900	
59	354374	58.95	58.9 - 59.1		0.781	0.900	
113	48185	113.00	112.9 - 113.1		0.722	0.900	
115	578276	115.00	114.9 - 115.1		0.720	0.900	
206	143568	206.00	205.9 - 206.1		0.782	0.900	
207	129530	206.95	206.9 - 207.1		0.737	0.900	
208	306664	207.95	207.9 - 208.1		0.743	0.900	
220	1	220.30	-		0.742		

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	7.5	V	Deflect	14.2	V
Extract 2	-160.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-75	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	52954	0.30	
89	27534	0.53	
205	58965	0.86	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	53095	52880	52706	53052	53034
89	27706	27559	27304	27525	27579
205	59168	59136	58147	59502	58872

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	7.5	V	Deflect	2.0	V
Extract 2	-150.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-75	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			