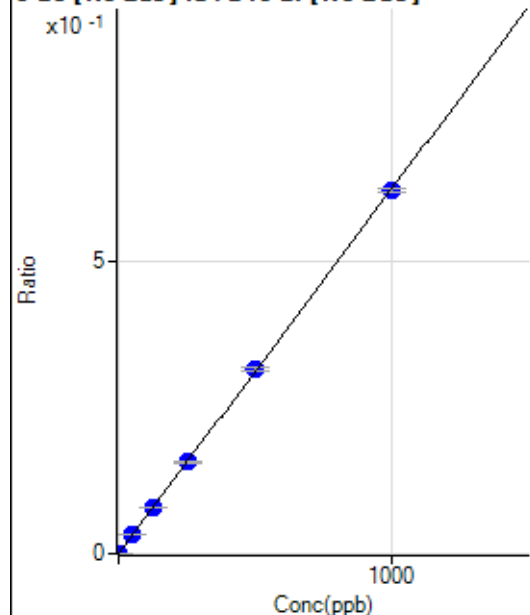


Batch Folder: D:\ICP-MS Data\P7013118-MS.b\
Analysis File: P7013118-MS.batch.bin
DA Date-Time: 2018-01-31 15:14:24
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-01-31 13:20:41
2			
3	005CAL.S.d	S02	2018-01-31 13:28:53
4	006CAL.S.d	S03	2018-01-31 13:32:44
5	007CAL.S.d	S04	2018-01-31 13:36:48
6	008CAL.S.d	S05	2018-01-31 13:40:34
7	009CAL.S.d	S06	2018-01-31 13:44:18
8	010CAL.S.d	S07	2018-01-31 13:48:00
9	011CAL.S.d	S08	2018-01-31 13:51:41

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	79.63	0.0000	P	21.7
2	☐	0.100					
3	☐	1.000	0.971	1507.52	0.0006	P	6.5
4	☐	50.000	51.898	80680.50	0.0324	P	0.9
5	☐	125.000	126.502	197335.86	0.0789	P	0.6
6	☐	250.000	251.390	383914.15	0.1567	P	1.0
7	☐	500.000	507.874	744341.21	0.3166	P	2.0
8	☐	1000.000	995.433	1428571.99	0.6204	P	1.0
9	☐			407.42	0.0002	P	5.3

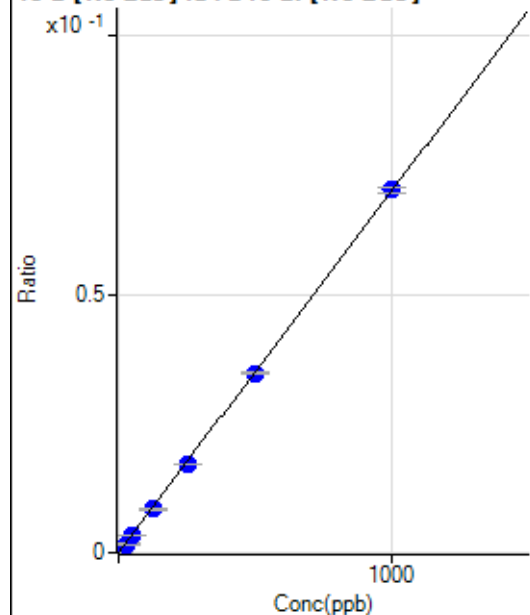
$$y = 6.2326\text{E-}004 * x + 3.2247\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.03374$$

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	55.56	0.0000	P	35.5
2	☐	2.500					
3	☐	25.000	23.508	3931.22	0.0017	P	13.1
4	☐	50.000	47.555	8347.07	0.0034	P	5.5
5	☐	125.000	120.105	21084.89	0.0084	P	2.7
6	☐	250.000	245.296	42109.46	0.0172	P	1.0
7	☐	500.000	496.789	81807.63	0.0348	P	0.2
8	☐	1000.000	1003.553	161757.76	0.0703	P	1.3
9	☐			6476.66	0.0029	P	8.2

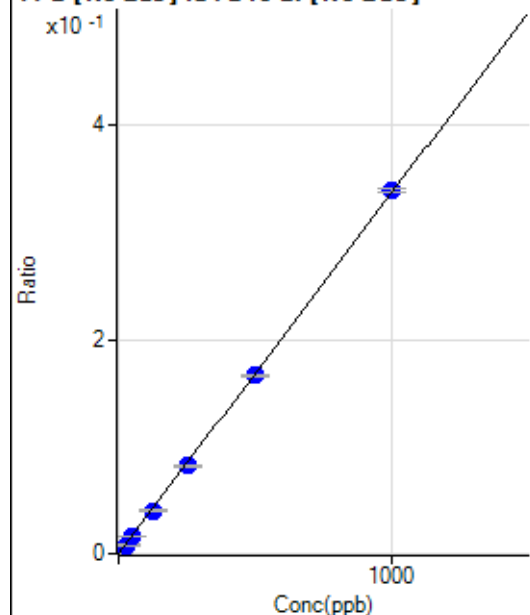
$$y = 6.9980\text{E-}005 * x + 2.2535\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.3426$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.57	0.0001	P	9.5
2	☐	2.500					
3	☐	25.000	22.922	18575.93	0.0079	P	6.3
4	☐	50.000	47.641	40321.43	0.0162	P	2.6
5	☐	125.000	119.587	101111.97	0.0404	P	2.0
6	☐	250.000	242.476	200420.68	0.0818	P	1.9
7	☐	500.000	493.458	391180.90	0.1663	P	0.4
8	☐	1000.000	1005.998	780568.90	0.3390	P	1.2
9	☐			31091.46	0.0140	P	12.2

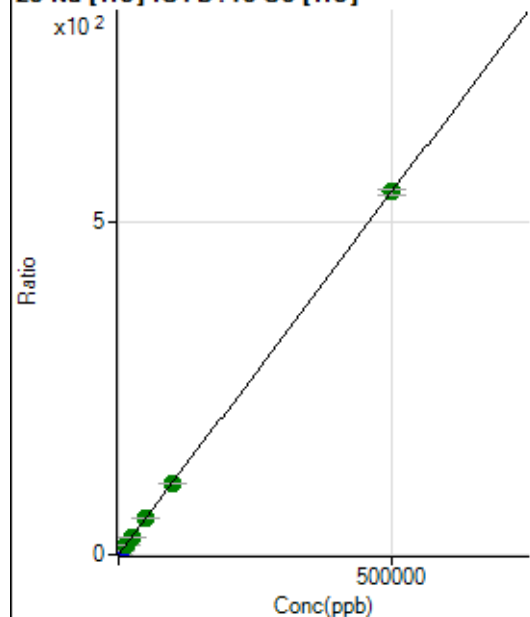
$$y = 3.3683\text{E-}004 * x + 1.3387\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.113$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18976.55	0.0477	P	0.7
2	☐	50.000					
3	☐	500.000	475.513	210989.12	0.5653	P	0.8
4	☐	5000.000	5226.531	2270283.32	5.7364	P	0.8
5	☐	12500.000	12876.009	5509929.73	14.0624	A	1.0
6	☐	25000.000	24908.862	10870768.56	27.1593	A	1.4
7	☐	50000.000	50335.263	19974402.53	54.8343	A	0.9
8	☐	100000.00	97519.094	42427265.88	106.1907	A	0.7
9	☐	500000.00	500455.57	212163308.9	544.7601	A	1.8

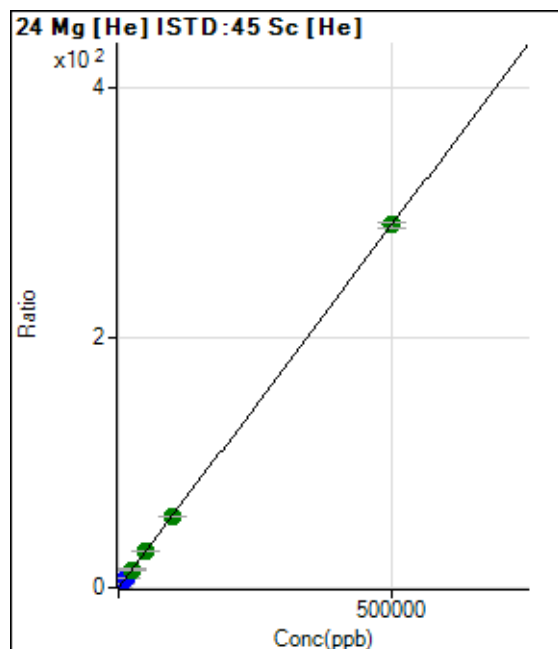
$$y = 0.0011 * x + 0.0477$$

$$R = 1.0000$$

$$DL = 0.9647$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	391.69	0.0010	P	8.0
2	☐	50.000					
3	☐	500.000	483.188	105161.32	0.2816	P	1.2
4	☐	5000.000	5237.248	1204232.47	3.0429	P	1.2
5	☐	12500.000	12998.791	2958563.15	7.5509	P	1.4
6	☐	25000.000	25176.457	5853641.88	14.6240	A	1.0
7	☐	50000.000	50638.934	10714841.90	29.4131	A	0.6
8	☐	100000.00	97896.331	22717704.50	56.8612	A	1.4
9	☐	500000.00	500333.19	113182285.8	290.6048	A	1.5

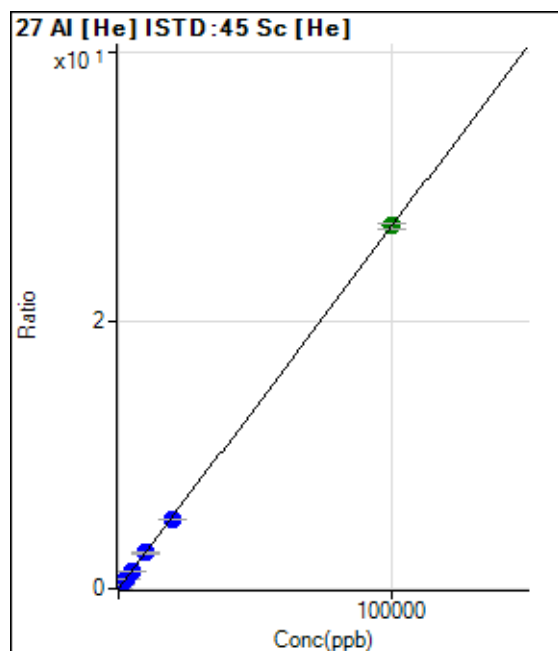
$$y = 5.8082\text{E-}004 * x + 9.8454\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.4067$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0001	P	12.8
2	☐	2.000					
3	☐	20.000	17.974	1847.41	0.0049	P	9.3
4	☐	1000.000	999.443	106869.33	0.2700	P	0.8
5	☐	2500.000	2476.299	262083.53	0.6689	P	1.8
6	☐	5000.000	4831.822	522423.14	1.3051	P	1.2
7	☐	10000.000	9893.194	973715.17	2.6721	P	1.6
8	☐	20000.000	19196.337	2071531.71	5.1848	P	0.9
9	☐	100000.00	100180.42	10537999.54	27.0578	A	1.7

$$y = 2.7009\text{E-}004 * x + 9.0709\text{E-}005$$

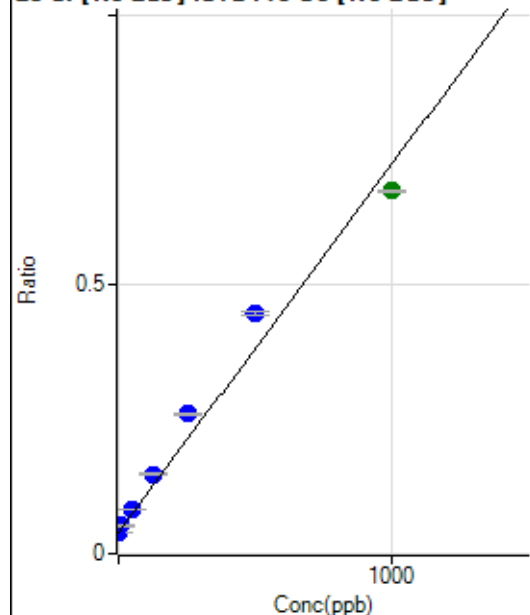
$$R = 1.0000$$

$$DL = 0.129$$

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	309304.97	0.0397	P	2.0
2	☐	1.000					
3	☐	10.000	18.255	385110.76	0.0522	P	7.1
4	☐	50.000	61.871	634801.92	0.0820	P	0.5
5	☐	125.000	158.836	1142392.09	0.1483	P	0.7
6	☐	250.000	321.528	2001170.83	0.2596	P	0.8
7	☐	500.000	596.994	3429403.12	0.4480	P	1.4
8	☐	1000.000	928.715	5228308.19	0.6749	A	0.7
9	☐			356515.17	0.0473	P	0.6

$$y = 6.8392\text{E-}004 * x + 0.0397$$

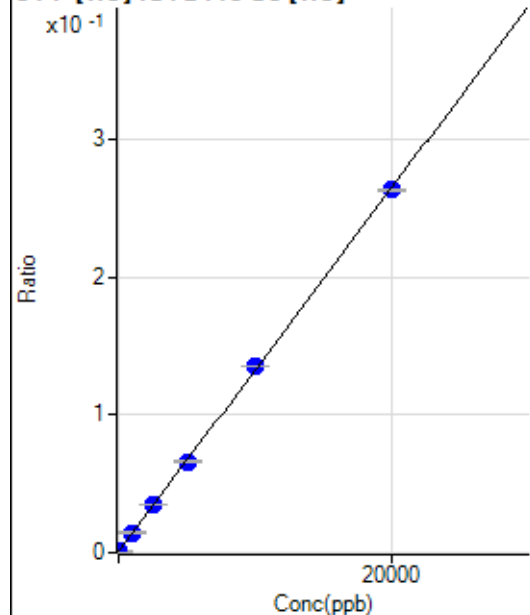
$$R = 0.9893$$

$$DL = 3.545$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	6.834	330.57	0.0008	P	14.9
2	☐	0.000					
3	☐	0.000	-6.834	241.68	0.0007	P	13.4
4	☐	1000.000	1054.169	5795.84	0.0146	P	7.7
5	☐	2500.000	2575.754	13595.62	0.0347	P	2.5
6	☐	5000.000	4960.494	26468.86	0.0661	P	3.9
7	☐	10000.000	10198.476	49254.72	0.1352	P	0.8
8	☐	20000.000	19898.461	105113.24	0.2631	P	0.8
9	☐			377.80	0.0010	P	19.2

$$y = 1.3184\text{E-}005 * x + 7.4143\text{E-}004$$

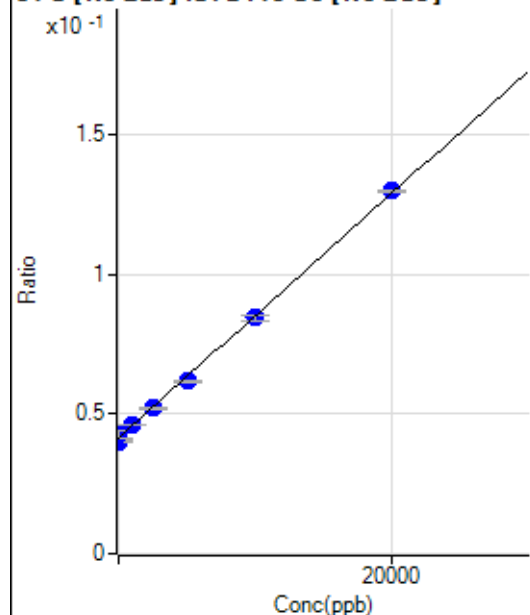
$$R = 0.9999$$

$$DL = 24.02$$

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	-300.210	313352.40	0.0402	P	2.0
2	☐	0.000					
3	☐	0.000	300.210	316315.58	0.0428	P	6.5
4	☐	1000.000	1098.240	358681.18	0.0463	P	0.5
5	☐	2500.000	2432.287	401877.19	0.0522	P	1.0
6	☐	5000.000	4641.789	476777.04	0.0619	P	1.5
7	☐	10000.000	9807.340	646540.97	0.0845	P	2.2
8	☐	20000.000	20189.435	1006502.18	0.1299	P	0.5
9	☐			283654.35	0.0376	P	1.0

$$y = 4.3778\text{E-}006 * x + 0.0415$$

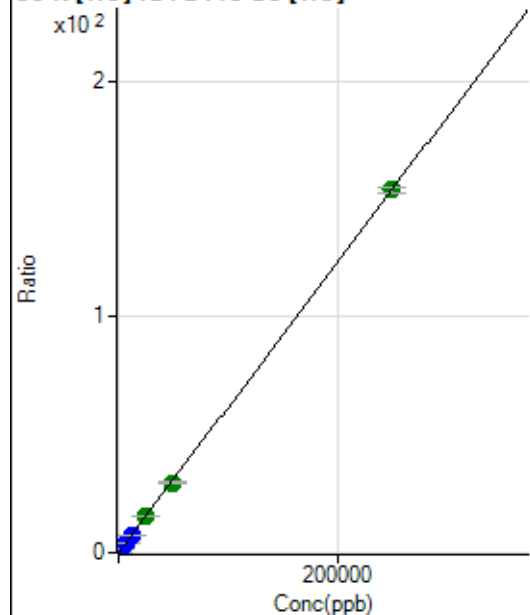
$$R = 0.9994$$

$$DL = 1225$$

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	36047.49	0.0906	P	0.8
2	☐	50.000					
3	☐	500.000	467.547	140990.61	0.3780	P	1.5
4	☐	2500.000	2522.529	649475.15	1.6410	P	0.2
5	☐	6250.000	6238.433	1537880.82	3.9249	P	0.8
6	☐	12500.000	12295.573	3061166.52	7.6478	P	1.3
7	☐	25000.000	24669.386	5557316.18	15.2531	A	1.2
8	☐	50000.000	48316.494	11901161.55	29.7872	A	0.8
9	☐	250000.00	250380.11	59970228.43	153.9810	A	1.7

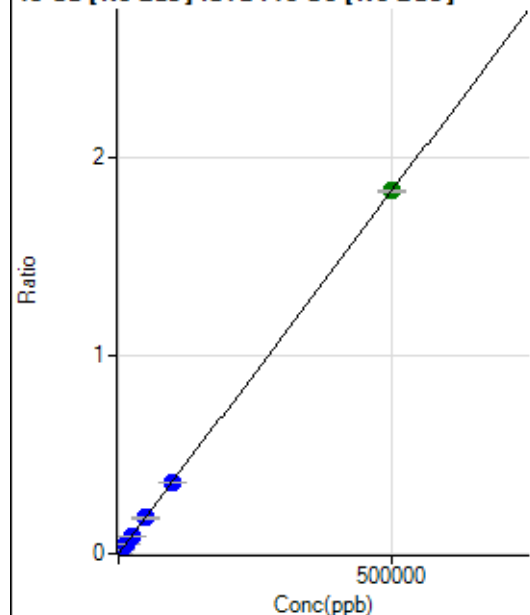
$$y = 6.1463\text{E-}004 * x + 0.0906$$

$$R = 1.0000$$

$$DL = 3.381$$

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	186.12	0.0000	P	11.6
2	☐	50.000					
3	☐	500.000	461.175	12639.25	0.0017	P	6.4
4	☐	5000.000	4961.520	140755.89	0.0182	P	0.2
5	☐	12500.000	12275.450	346242.48	0.0450	P	0.9
6	☐	25000.000	24329.876	686682.83	0.0891	P	1.1
7	☐	50000.000	49204.980	1378753.05	0.1801	P	2.6
8	☐	100000.00	97334.315	2760380.19	0.3563	P	0.7
9	☐	500000.00	500652.18	13826212.98	1.8326	A	0.6

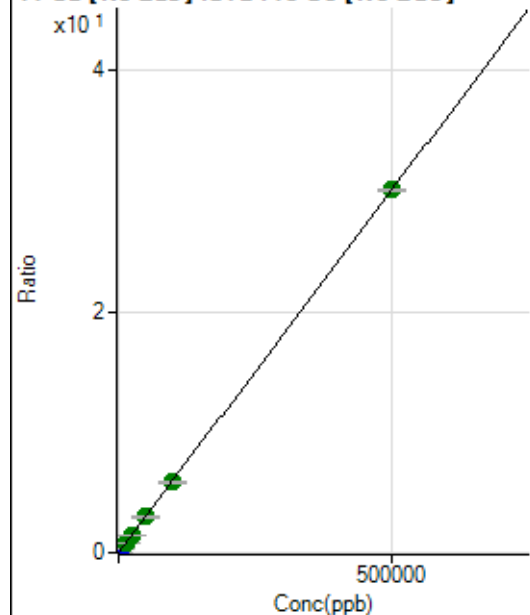
$$y = 3.6605E-006 * x + 2.3842E-005$$

$$R = 1.0000$$

$$DL = 2.276$$

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	10145.76	0.0013	P	2.8
2	☐	50.000					
3	☐	500.000	468.331	217252.97	0.0294	P	7.2
4	☐	5000.000	4907.821	2292384.58	0.2962	P	0.3
5	☐	12500.000	12204.922	5657472.96	0.7346	A	0.8
6	☐	25000.000	24283.931	11256439.32	1.4603	A	1.3
7	☐	50000.000	49241.639	22655991.13	2.9598	A	1.9
8	☐	100000.00	96960.307	45141238.51	5.8268	A	0.3
9	☐	500000.00	500727.90	226978382.8	30.0857	A	0.7

$$y = 6.0081E-005 * x + 0.0013$$

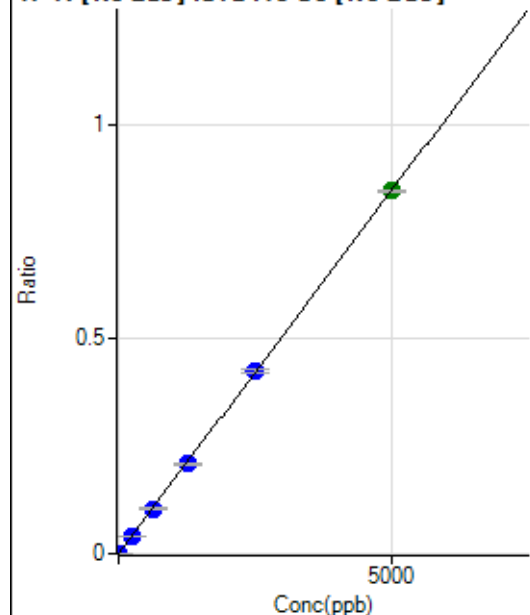
$$R = 1.0000$$

$$DL = 1.847$$

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	150.01	0.0000	P	27.8
2	☐	0.500					
3	☐	5.000	4.565	5831.96	0.0008	P	9.3
4	☐	250.000	249.679	326876.64	0.0422	P	1.1
5	☐	625.000	621.137	808914.24	0.1050	P	0.8
6	☐	1250.000	1232.686	1606589.24	0.2084	P	1.4
7	☐	2500.000	2515.250	3255203.74	0.4253	P	1.8
8	☐	5000.000	4997.203	6545359.00	0.8449	A	0.7
9	☐			1372.35	0.0002	P	3.4

$$y = 1.6907E-004 * x + 1.9326E-005$$

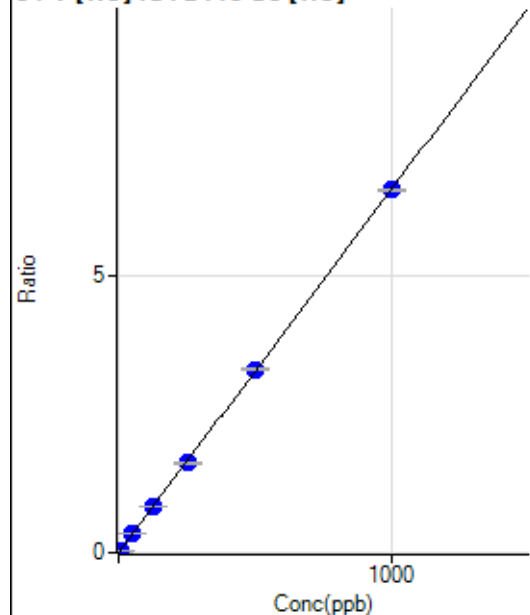
$$R = 1.0000$$

$$DL = 0.09545$$

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	8.89	0.0000	P	77.6
2	☐	0.500					
3	☐	5.000	4.539	11127.72	0.0298	P	1.6
4	☐	50.000	50.755	131741.78	0.3329	P	0.6
5	☐	125.000	125.554	322633.80	0.8234	P	0.8
6	☐	250.000	247.129	648723.17	1.6207	P	1.2
7	☐	500.000	504.512	1205355.73	3.3086	P	1.1
8	☐	1000.000	998.357	2615943.69	6.5473	P	0.4
9	☐			563.36	0.0014	P	12.6

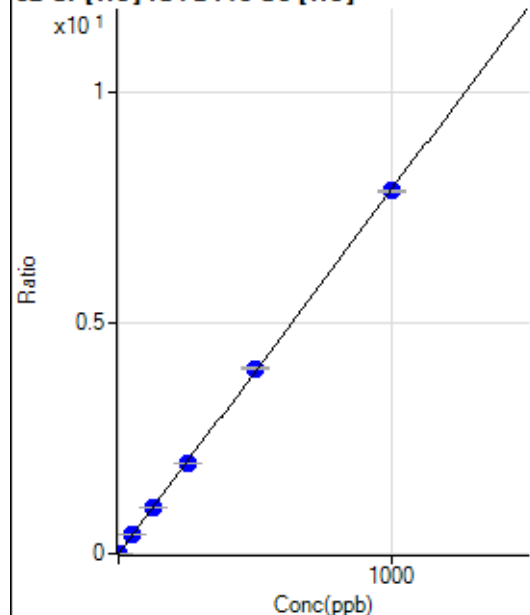
$$y = 0.0066 * x + 2.2250E-005$$

$$R = 1.0000$$

$$DL = 0.007896$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	386.68	0.0010	P	7.3
2	☐	0.200					
3	☐	2.000	2.025	6333.70	0.0170	P	2.9
4	☐	50.000	51.542	161348.85	0.4077	P	1.0
5	☐	125.000	126.721	392179.99	1.0009	P	1.2
6	☐	250.000	248.472	785186.95	1.9617	P	1.3
7	☐	500.000	507.504	1459440.81	4.0057	P	1.3
8	☐	1000.000	996.338	3141625.16	7.8631	P	0.5
9	☐			59789.74	0.1535	P	2.0

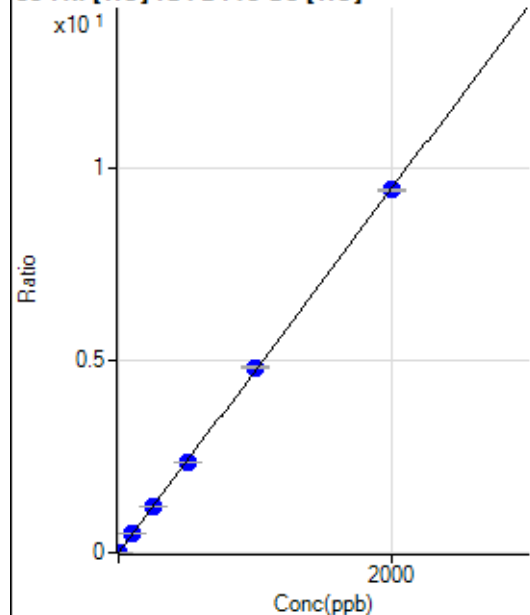
$$y = 0.0079 * x + 9.7223E-004$$

$$R = 1.0000$$

$$DL = 0.02703$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.66	0.0001	P	13.5
2	☐	0.100					
3	☐	1.000	1.097	1989.06	0.0053	P	6.2
4	☐	100.000	102.141	191692.14	0.4844	P	1.0
5	☐	250.000	251.940	468055.88	1.1946	P	0.9
6	☐	500.000	494.239	938018.16	2.3433	P	0.6
7	☐	1000.000	1015.469	1753873.46	4.8144	P	1.1
8	☐	2000.000	1993.356	3775906.12	9.4506	P	0.5
9	☐			11471.31	0.0295	P	2.6

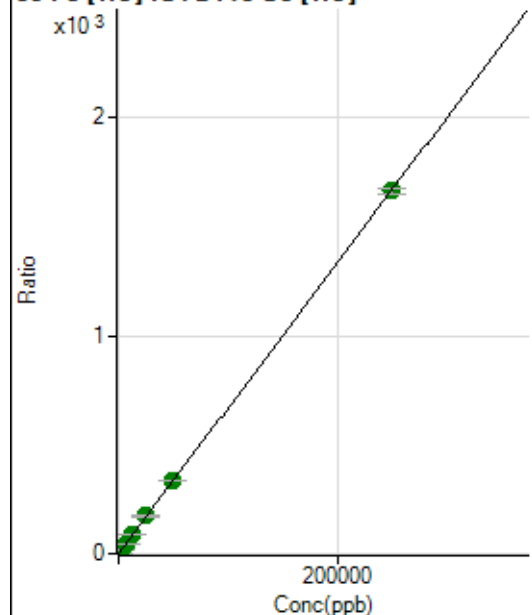
$$y = 0.0047 * x + 1.1738E-004$$

$$R = 1.0000$$

$$DL = 0.01006$$

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	2922.61	0.0073	P	1.6
2	☐	5.000					
3	☐	50.000	48.466	123214.99	0.3299	P	1.9
4	☐	2500.000	2633.628	6938652.01	17.5326	A	1.1
5	☐	6250.000	6499.371	16948856.98	43.2568	A	1.2
6	☐	12500.000	12698.374	33825779.00	84.5075	A	1.2
7	☐	25000.000	25917.847	62826908.81	172.4753	A	0.9
8	☐	50000.000	50352.621	133874751.1	335.0743	A	1.0
9	☐	250000.00	249820.20	647459999.6	1,662.413	A	1.5

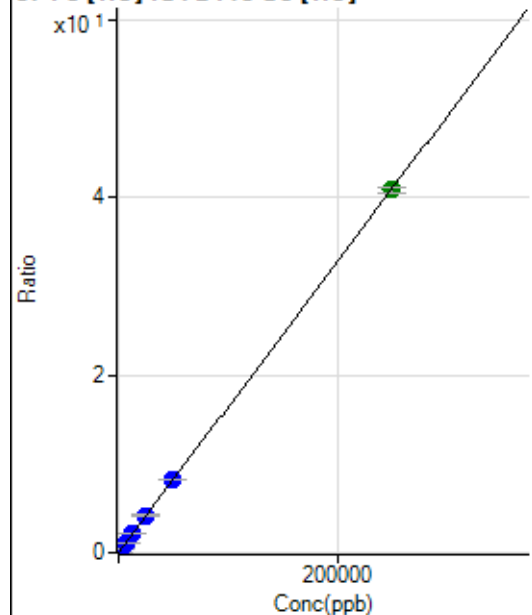
$$y = 0.0067 * x + 0.0073$$

$$R = 1.0000$$

$$DL = 0.05413$$

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	212.97	0.0005	P	27.9
2	☐	5.000					
3	☐	50.000	49.733	3233.79	0.0087	P	6.6
4	☐	2500.000	2622.823	169741.53	0.4289	P	0.7
5	☐	6250.000	6532.037	418206.10	1.0673	P	1.2
6	☐	12500.000	12684.313	829355.72	2.0721	P	1.7
7	☐	25000.000	25797.476	1535093.00	4.2137	P	1.0
8	☐	50000.000	50389.963	3288288.09	8.2301	P	0.4
9	☐	250000.00	249824.76	15890919.91	40.8013	A	1.6

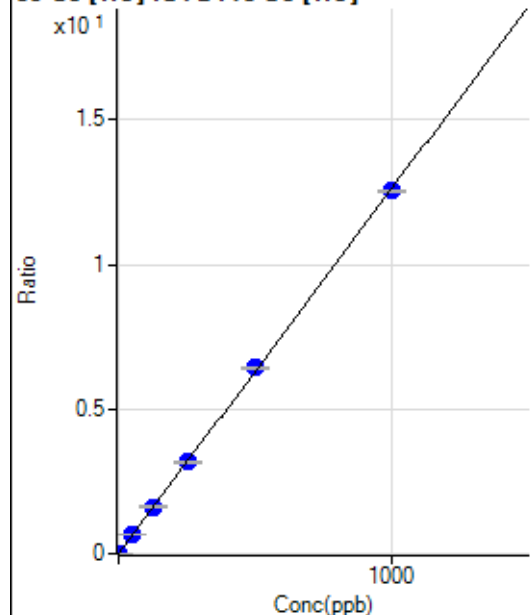
$$y = 1.6332E-004 * x + 5.3629E-004$$

$$R = 1.0000$$

$$DL = 2.744$$

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	281.12	0.0007	P	5.4
2	☐	0.100					
3	☐	1.000	0.982	4890.90	0.0131	P	3.7
4	☐	50.000	51.845	258866.43	0.6541	P	0.9
5	☐	125.000	128.374	634186.98	1.6186	P	1.2
6	☐	250.000	250.828	1265538.51	3.1619	P	1.6
7	☐	500.000	509.272	2338507.81	6.4190	P	1.3
8	☐	1000.000	994.643	5008729.51	12.5361	P	0.5
9	☐			6498.21	0.0167	P	4.3

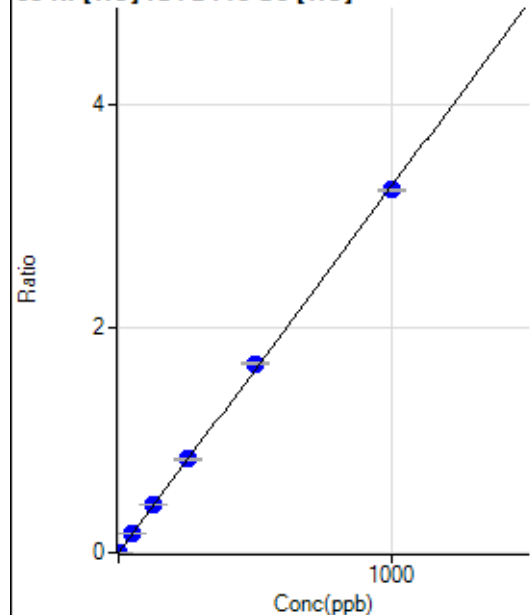
$$y = 0.0126 * x + 7.0638E-004$$

$$R = 0.9999$$

$$DL = 0.009129$$

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	43.33	0.0001	P	21.5
2	☐	0.100					
3	☐	1.000	1.109	1393.42	0.0037	P	3.6
4	☐	50.000	53.338	68944.52	0.1742	P	1.0
5	☐	125.000	130.839	167381.20	0.4272	P	0.9
6	☐	250.000	254.927	333113.73	0.8322	P	1.0
7	☐	500.000	514.890	612270.99	1.6807	P	1.0
8	☐	1000.000	990.427	1291699.33	3.2329	P	0.3
9	☐			15908.81	0.0408	P	1.3

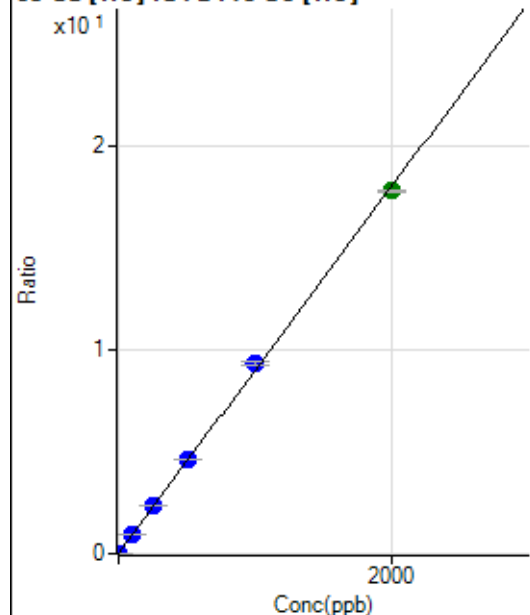
$$y = 0.0033 * x + 1.0907E-004$$

$$R = 0.9998$$

$$DL = 0.02158$$

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	4795.31	0.0120	P	2.3
2	☐	0.200					
3	☐	2.000	2.028	11287.87	0.0303	P	2.0
4	☐	100.000	106.408	383157.08	0.9682	P	1.1
5	☐	250.000	262.639	929369.27	2.3719	P	1.2
6	☐	500.000	512.545	1848212.70	4.6174	P	1.2
7	☐	1000.000	1036.934	3398673.63	9.3292	P	1.3
8	☐	2000.000	1976.496	7100458.72	17.7715	A	0.5
9	☐			12967.01	0.0333	P	2.1

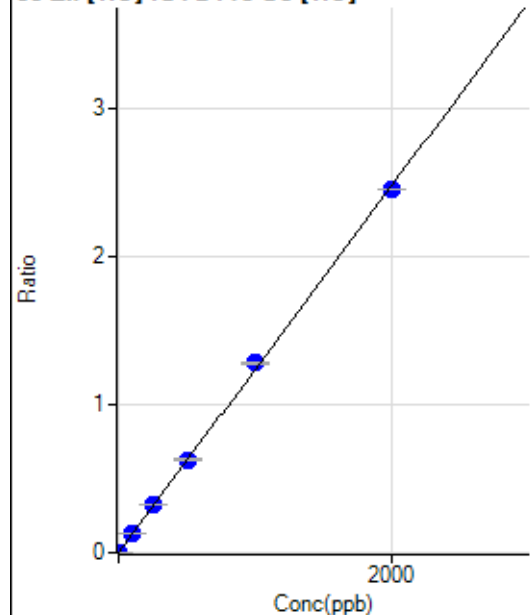
$$y = 0.0090 * x + 0.0120$$

$$R = 0.9997$$

$$DL = 0.09273$$

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	165.56	0.0004	P	22.9
2	☐	0.200					
3	☐	2.000	2.239	1190.07	0.0032	P	1.1
4	☐	100.000	106.029	52168.44	0.1318	P	1.0
5	☐	250.000	261.505	127148.59	0.3245	P	0.7
6	☐	500.000	507.873	252101.98	0.6298	P	1.2
7	☐	1000.000	1034.513	467224.29	1.2825	P	1.1
8	☐	2000.000	1979.036	980117.05	2.4531	P	0.1
9	☐			3273.75	0.0084	P	4.9

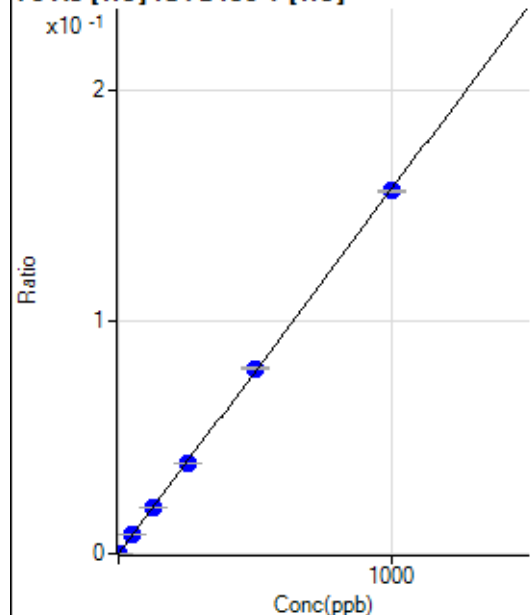
$$y = 0.0012 * x + 4.1534E-004$$

$$R = 0.9998$$

$$DL = 0.2306$$

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	8.03	0.0000	P	13.4
2	☐	0.100					
3	☐	1.000	1.032	347.54	0.0002	P	8.0
4	☐	50.000	51.606	18140.40	0.0081	P	0.2
5	☐	125.000	126.747	44159.32	0.0199	P	0.9
6	☐	250.000	250.371	89305.07	0.0393	P	0.2
7	☐	500.000	508.445	166161.52	0.0799	P	1.1
8	☐	1000.000	995.386	356122.21	0.1564	P	0.7
9	☐			199.39	0.0001	P	18.1

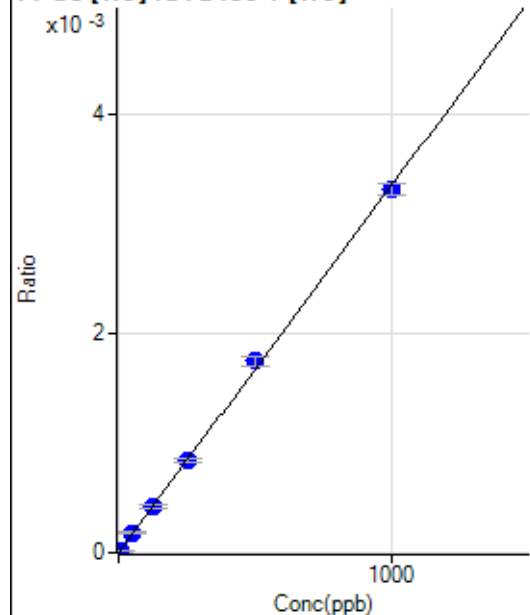
$$y = 1.5708\text{E-}004 * x + 3.5672\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.009137$$

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	4.816	34.45	0.0000	P	16.7
4	☐	50.000	53.748	403.35	0.0002	P	8.9
5	☐	125.000	125.502	932.27	0.0004	P	6.5
6	☐	250.000	252.898	1921.27	0.0008	P	4.7
7	☐	500.000	522.112	3630.52	0.0017	P	5.5
8	☐	1000.000	987.970	7525.39	0.0033	P	3.3
9	☐			4.44	0.0000	P	42.8

$$y = 3.3443\text{E-}006 * x + 4.9695\text{E-}007$$

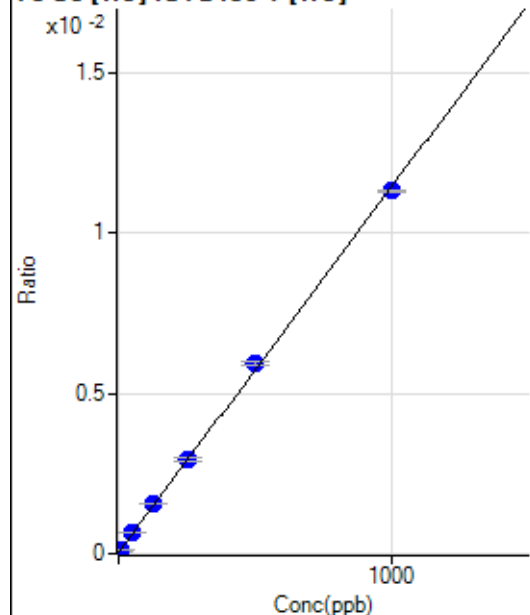
$$R = 0.9996$$

$$DL = 0.7721$$

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	88.27	0.0000	P	16.6
2	☐	0.500					
3	☐	5.000	5.903	222.84	0.0001	P	2.1
4	☐	50.000	52.733	1433.42	0.0006	P	2.0
5	☐	125.000	131.834	3422.66	0.0015	P	1.6
6	☐	250.000	254.322	6676.90	0.0029	P	2.7
7	☐	500.000	517.282	12345.44	0.0059	P	2.0
8	☐	1000.000	989.283	25792.70	0.0113	P	0.7
9	☐			102.47	0.0000	P	12.0

$$y = 1.1407\text{E-}005 * x + 3.9210\text{E-}005$$

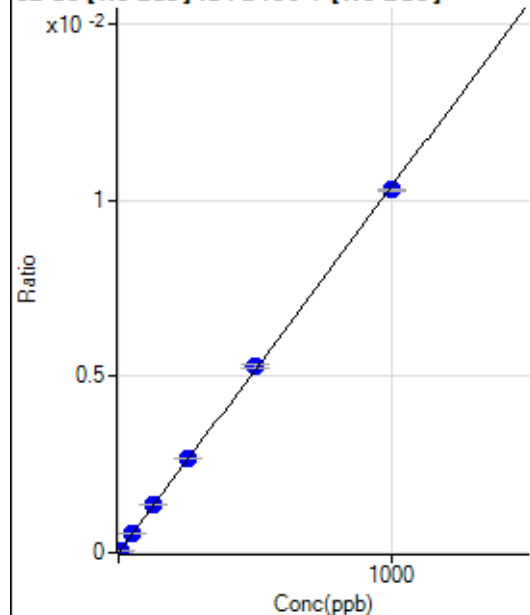
$$R = 0.9998$$

$$DL = 1.708$$

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	24.03	0.0000	P	253.
2	☐	0.500					
3	☐	5.000	4.943	660.20	0.0001	P	7.5
4	☐	50.000	52.569	7122.23	0.0005	P	1.5
5	☐	125.000	131.437	17822.56	0.0014	P	1.1
6	☐	250.000	258.056	35092.07	0.0027	P	1.0
7	☐	500.000	511.444	69535.41	0.0053	P	2.3
8	☐	1000.000	991.331	136990.43	0.0103	P	0.6
9	☐			173.09	0.0000	P	5.6

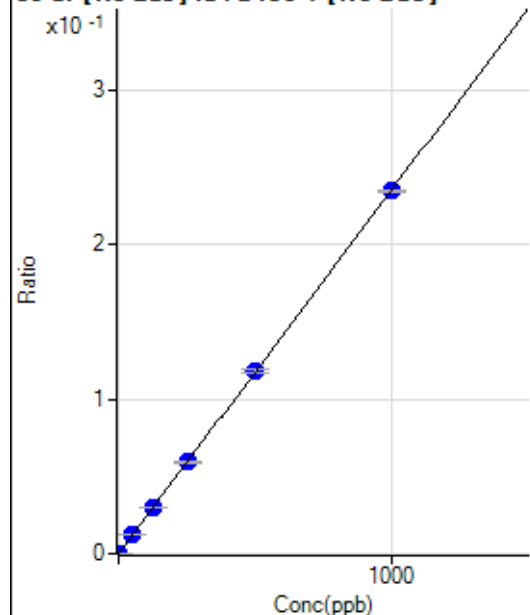
$$y = 1.0396\text{E-}005 * x + 1.8772\text{E-}006$$

$$R = 0.9999$$

$$DL = 1.371$$

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	491.70	0.0000	P	16.6
2	☐	0.100					
3	☐	1.000	1.008	3403.33	0.0003	P	10.6
4	☐	50.000	50.487	154693.24	0.0119	P	0.4
5	☐	125.000	126.244	387208.01	0.0297	P	1.1
6	☐	250.000	251.214	772698.03	0.0591	P	1.0
7	☐	500.000	502.936	1546775.16	0.1183	P	1.8
8	☐	1000.000	998.049	3119730.15	0.2347	P	0.6
9	☐			99137.64	0.0078	P	0.4

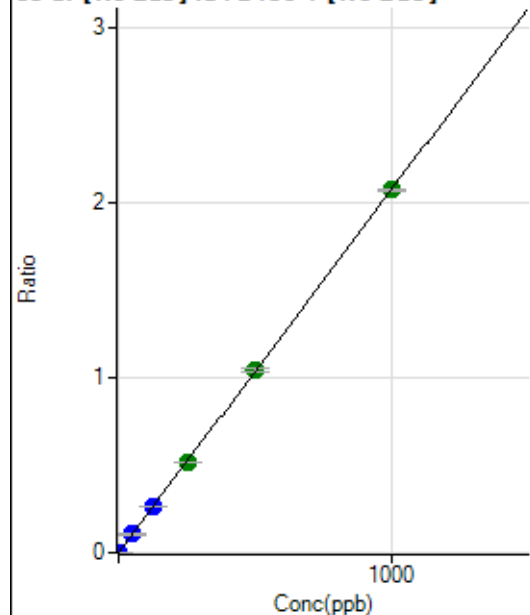
$$y = 2.3517\text{E-}004 * x + 3.7922\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.08009$$

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	94.45	0.0000	P	25.4
2	☐	0.100					
3	☐	1.000	0.961	24799.94	0.0020	P	5.7
4	☐	50.000	50.403	1356896.15	0.1045	P	0.4
5	☐	125.000	126.213	3407426.12	0.2616	P	0.6
6	☐	250.000	249.577	6761672.81	0.5173	A	0.6
7	☐	500.000	501.050	13576789.71	1.0385	A	2.0
8	☐	1000.000	999.409	27528472.84	2.0714	A	0.7
9	☐			871334.82	0.0690	P	0.6

$$y = 0.0021 * x + 7.2488\text{E-}006$$

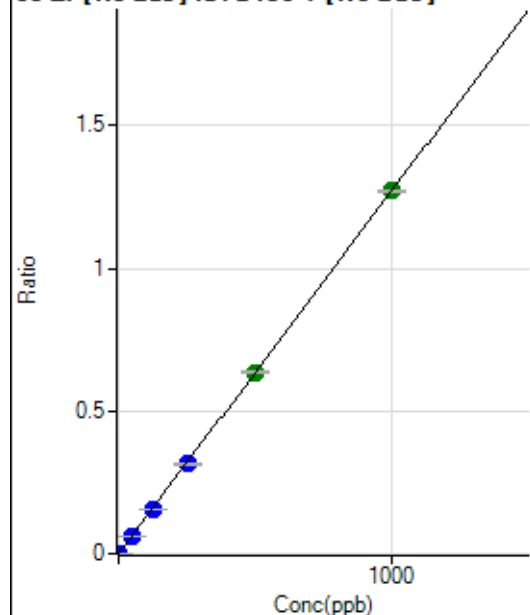
$$R = 1.0000$$

$$DL = 0.002661$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	716.72	0.0001	P	1.7
2	☐	0.100					
3	☐	1.000	0.909	14980.58	0.0012	P	8.6
4	☐	50.000	48.239	796573.81	0.0613	P	0.3
5	☐	125.000	122.643	2029974.07	0.1558	P	0.3
6	☐	250.000	247.027	4102312.38	0.3139	P	1.1
7	☐	500.000	501.093	8322558.60	0.6366	A	1.9
8	☐	1000.000	1000.580	16892338.57	1.2711	A	0.6
9	☐			5184.51	0.0004	P	5.8

$$y = 0.0013 * x + 5.5185E-005$$

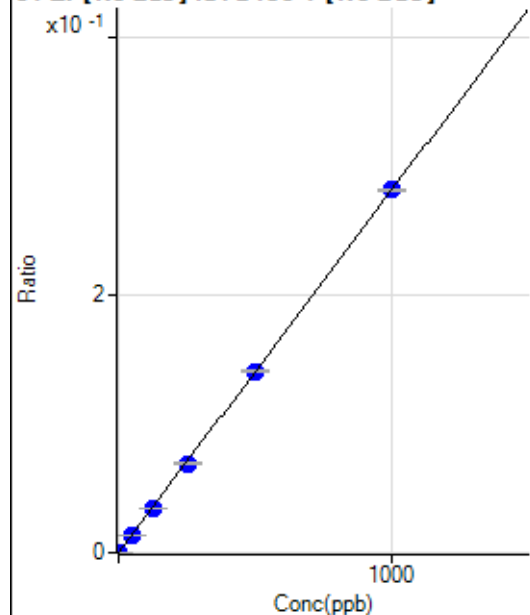
$$R = 1.0000$$

$$DL = 0.002244$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.56	0.0000	P	17.1
2	☐	0.100					
3	☐	1.000	0.920	3358.87	0.0003	P	3.5
4	☐	50.000	48.688	177683.32	0.0137	P	0.5
5	☐	125.000	122.376	447663.30	0.0344	P	0.3
6	☐	250.000	245.737	901905.59	0.0690	P	1.2
7	☐	500.000	500.364	1836757.16	0.1405	P	1.5
8	☐	1000.000	1001.278	3735971.57	0.2811	P	0.5
9	☐			1250.12	0.0001	P	8.8

$$y = 2.8075E-004 * x + 1.1952E-005$$

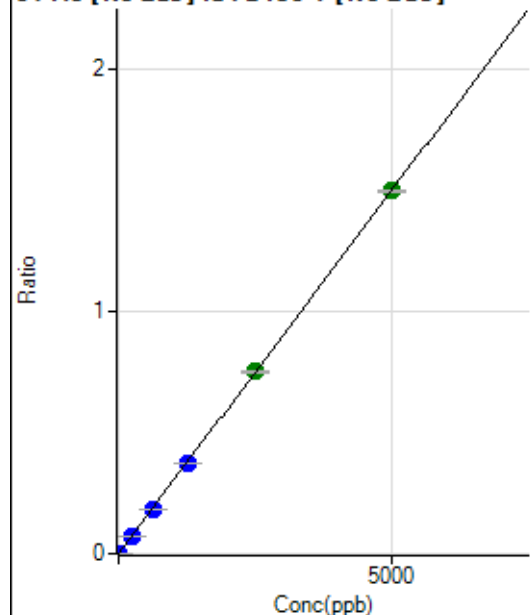
$$R = 1.0000$$

$$DL = 0.02188$$

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	330.58	0.0000	P	9.3
2	☐	0.500					
3	☐	5.000	4.673	17675.46	0.0014	P	5.5
4	☐	250.000	245.709	955971.86	0.0736	P	0.8
5	☐	625.000	620.037	2418877.03	0.1857	P	0.3
6	☐	1250.000	1247.155	4882015.17	0.3735	P	1.2
7	☐	2500.000	2507.366	9817167.06	0.7509	A	1.6
8	☐	5000.000	4997.863	19890966.77	1.4967	A	0.3
9	☐			15027.89	0.0012	P	4.2

$$y = 2.9947E-004 * x + 2.5481E-005$$

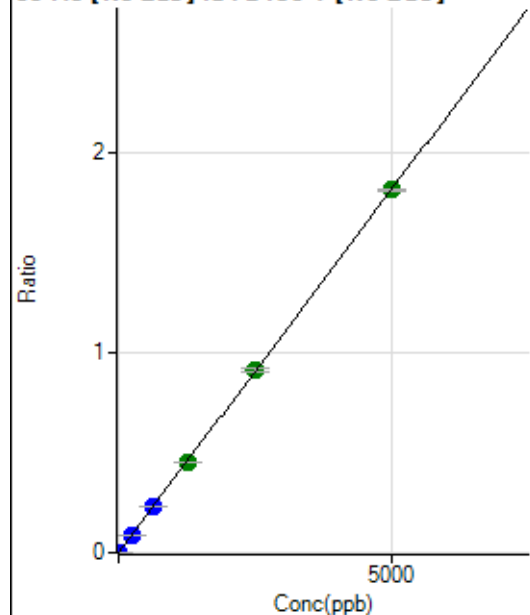
$$R = 1.0000$$

$$DL = 0.02365$$

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	22.6
2	☐	0.500					
3	☐	5.000	4.751	21461.32	0.0017	P	6.1
4	☐	250.000	249.947	1179545.82	0.0908	P	0.3
5	☐	625.000	625.289	2959304.43	0.2272	P	0.4
6	☐	1250.000	1245.233	5913943.75	0.4524	A	1.0
7	☐	2500.000	2509.339	11919840.46	0.9117	A	1.9
8	☐	5000.000	4996.489	24126436.65	1.8154	A	0.6
9	☐			22176.32	0.0018	P	5.0

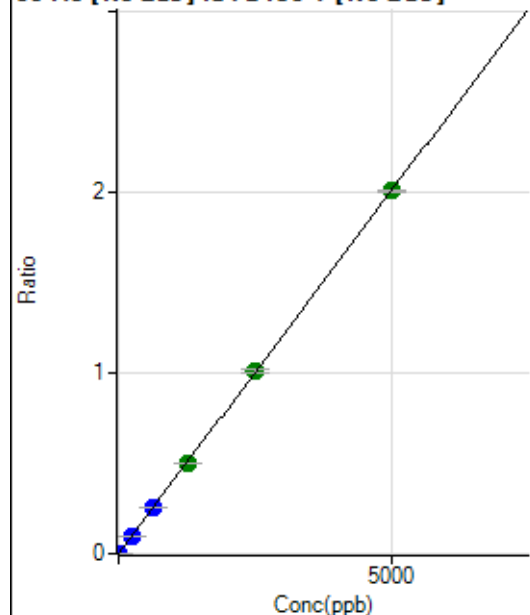
$$y = 3.6334E-004 * x + 4.0540E-006$$

$$R = 1.0000$$

$$DL = 0.007558$$

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	83.34	0.0000	P	38.1
2	☐	0.500					
3	☐	5.000	4.679	23397.64	0.0019	P	6.0
4	☐	250.000	248.568	1297309.72	0.0999	P	0.6
5	☐	625.000	624.855	3270547.62	0.2511	P	0.5
6	☐	1250.000	1244.863	6538445.46	0.5002	A	1.1
7	☐	2500.000	2508.677	13179237.97	1.0081	A	1.7
8	☐	5000.000	4997.036	26685290.35	2.0080	A	0.5
9	☐			29219.87	0.0023	P	5.2

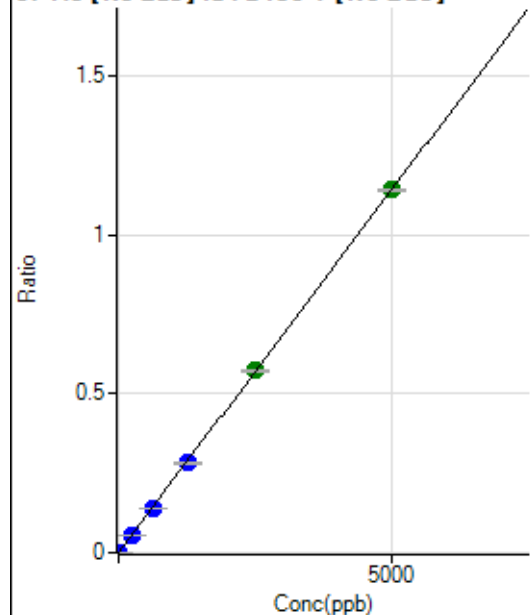
$$y = 4.0183\text{E-}004 * x + 6.4472\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01834$$

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	44.44	0.0000	P	20.0
2	☐	0.500					
3	☐	5.000	4.682	13326.13	0.0011	P	4.3
4	☐	250.000	246.933	733025.81	0.0564	P	0.5
5	☐	625.000	612.011	1821983.83	0.1399	P	0.1
6	☐	1250.000	1234.620	3688273.43	0.2822	P	1.2
7	☐	2500.000	2507.945	7493785.93	0.5732	A	1.8
8	☐	5000.000	5001.649	15191975.17	1.1431	A	0.4
9	☐			13590.35	0.0011	P	5.5

$$y = 2.2855\text{E-}004 * x + 3.4131\text{E-}006$$

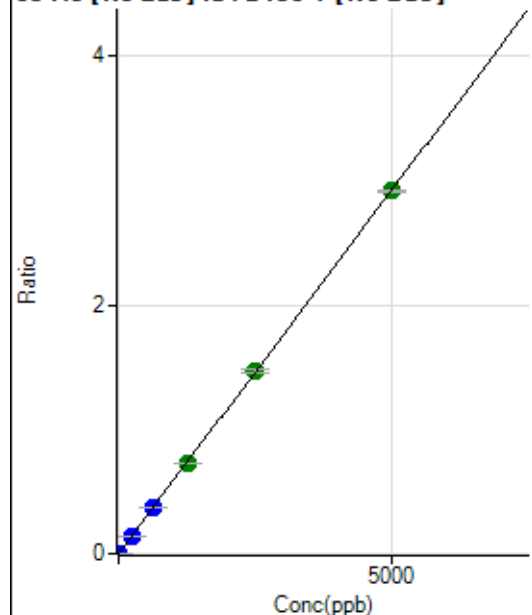
$$R = 1.0000$$

$$DL = 0.008978$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	23.4
2	☐	0.500					
3	☐	5.000	4.788	34726.86	0.0028	P	6.7
4	☐	250.000	249.651	1893190.90	0.1458	P	0.5
5	☐	625.000	626.622	4765580.36	0.3659	P	0.4
6	☐	1250.000	1246.365	9512068.96	0.7277	A	1.0
7	☐	2500.000	2511.913	19173791.58	1.4666	A	2.1
8	☐	5000.000	4994.767	38757005.73	2.9163	A	0.2
9	☐			34623.54	0.0027	P	5.7

$$y = 5.8387\text{E-}004 * x + 5.3310\text{E-}006$$

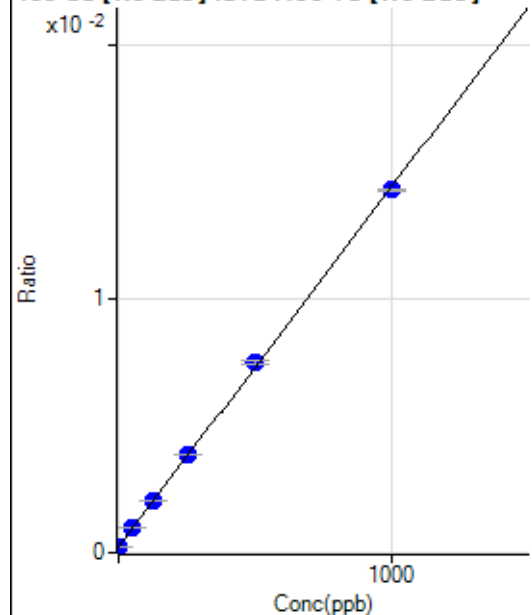
$$R = 1.0000$$

$$DL = 0.0064$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3558.92	0.0002	P	6.9
2	☐	0.100					
3	☐	1.000	0.254	3500.59	0.0002	P	7.9
4	☐	50.000	53.037	15801.08	0.0010	P	2.0
5	☐	125.000	129.603	33696.63	0.0021	P	2.0
6	☐	250.000	256.833	63992.49	0.0039	P	1.6
7	☐	500.000	511.242	122971.42	0.0075	P	2.3
8	☐	1000.000	991.944	236883.83	0.0143	P	0.4
9	☐			3514.48	0.0002	P	2.7

$$y = 1.4202\text{E-}005 * x + 2.2335\text{E-}004$$

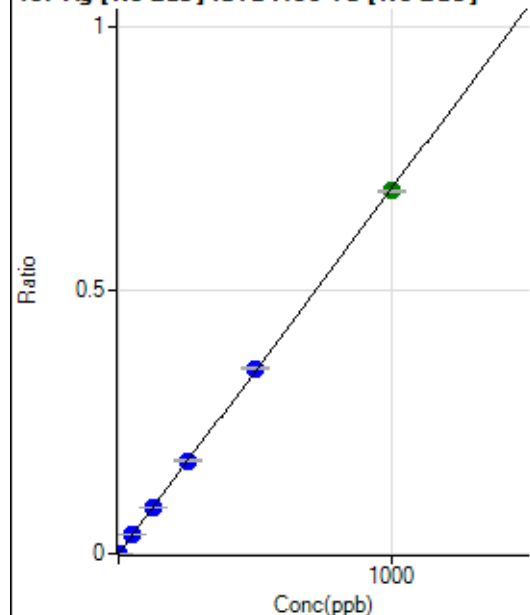
$$R = 0.9999$$

$$DL = 3.233$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.12	0.0000	P	11.2
2	☐	0.100					
3	☐	1.000	1.000	10765.63	0.0007	P	4.8
4	☐	50.000	52.151	584420.33	0.0361	P	0.2
5	☐	125.000	128.394	1451637.72	0.0889	P	0.6
6	☐	250.000	254.282	2910980.25	0.1761	P	1.2
7	☐	500.000	508.012	5780072.09	0.3518	P	1.7
8	☐	1000.000	994.392	11397210.84	0.6886	A	0.4
9	☐			913.96	0.0001	P	17.6

$$y = 6.9243\text{E-}004 * x + 8.5528\text{E-}006$$

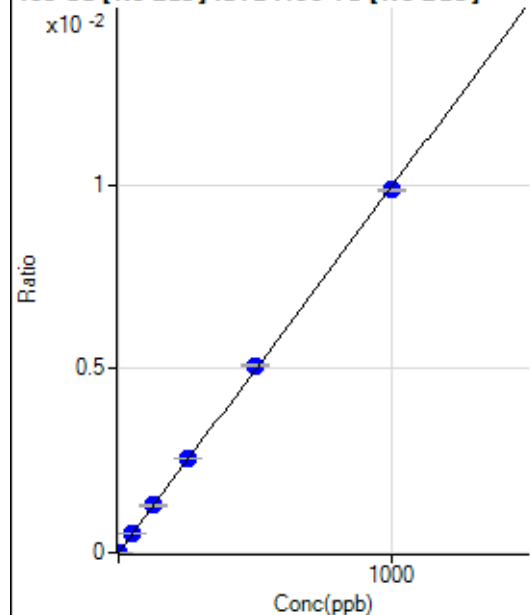
$$R = 0.9999$$

$$DL = 0.00416$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.50	0.0000	P	33.1
2	☐	0.100					
3	☐	1.000	0.953	158.34	0.0000	P	18.0
4	☐	50.000	52.303	8436.00	0.0005	P	1.4
5	☐	125.000	129.621	21075.66	0.0013	P	2.1
6	☐	250.000	256.250	42179.59	0.0026	P	1.0
7	☐	500.000	511.691	83703.39	0.0051	P	1.1
8	☐	1000.000	991.899	163429.18	0.0099	P	0.5
9	☐			55.56	0.0000	P	15.5

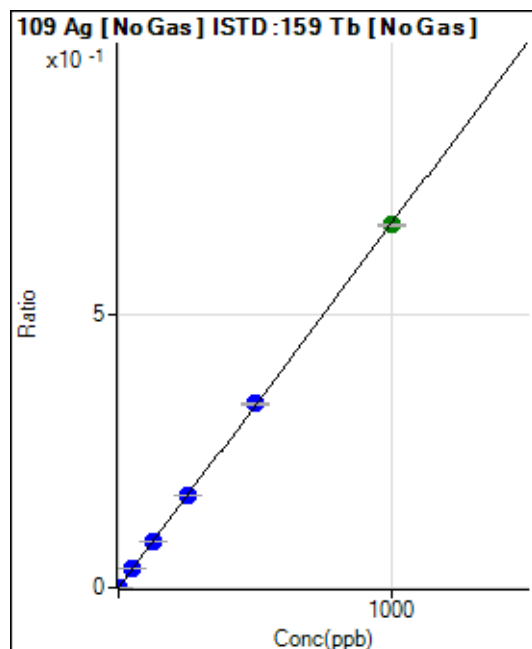
$$y = 9.9533\text{E-}006 * x + 7.8459\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.07822$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.34	0.0000	P	25.6
2	☐	0.100					
3	☐	1.000	1.030	10568.23	0.0007	P	8.0
4	☐	50.000	52.246	562469.97	0.0348	P	0.3
5	☐	125.000	127.670	1386847.99	0.0849	P	0.6
6	☐	250.000	253.352	2786647.85	0.1686	P	1.3
7	☐	500.000	505.340	5524453.29	0.3362	P	1.6
8	☐	1000.000	996.046	10968925.94	0.6627	A	0.3
9	☐			822.29	0.0001	P	9.1

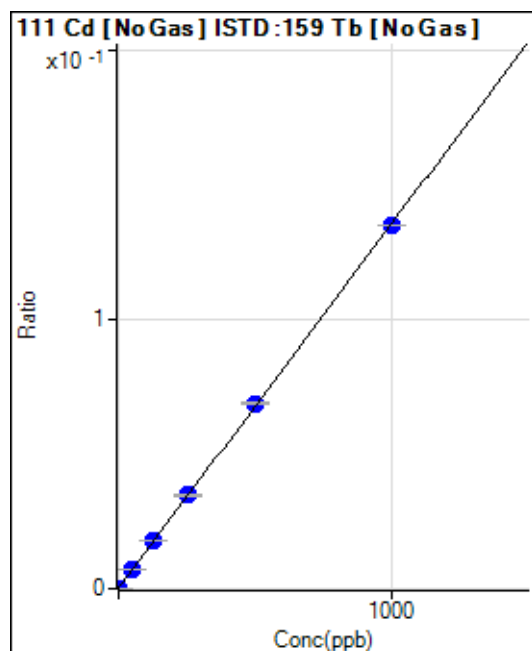
$$y = 6.6530\text{E-}004 * x + 3.6673\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.004234$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2499.16	0.0002	P	6.9
2	☐	0.100					
3	☐	1.000	0.986	4453.67	0.0003	P	7.2
4	☐	50.000	52.728	117809.36	0.0073	P	0.6
5	☐	125.000	128.669	286406.83	0.0175	P	0.2
6	☐	250.000	255.346	572982.90	0.0347	P	0.9
7	☐	500.000	506.953	1128127.53	0.0687	P	1.3
8	☐	1000.000	994.592	2226989.52	0.1345	P	0.1
9	☐			2750.43	0.0002	P	3.5

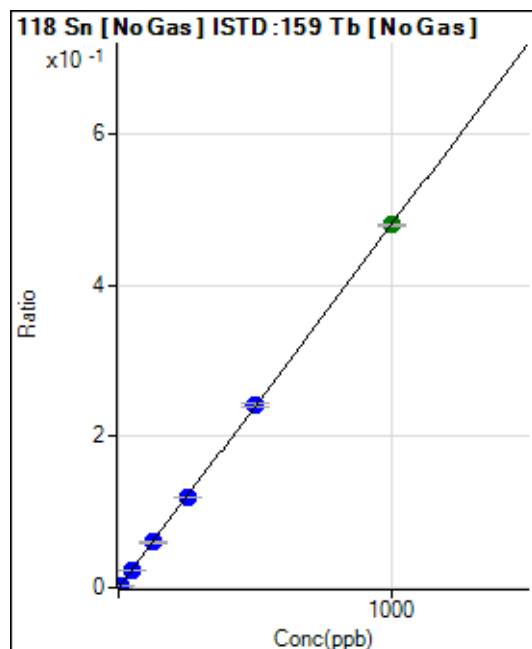
$$y = 1.3511\text{E-}004 * x + 1.5685\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.2402$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1027.87	0.0001	P	11.2
2	☐	0.500					
3	☐	5.000	4.790	36306.29	0.0024	P	7.3
4	☐	50.000	49.986	389782.76	0.0241	P	0.5
5	☐	125.000	124.631	979085.85	0.0600	P	0.6
6	☐	250.000	248.249	1973705.08	0.1194	P	1.2
7	☐	500.000	502.040	3966140.06	0.2414	P	1.5
8	☐	1000.000	999.465	7952818.23	0.4805	A	0.2
9	☐			10762.86	0.0007	P	2.7

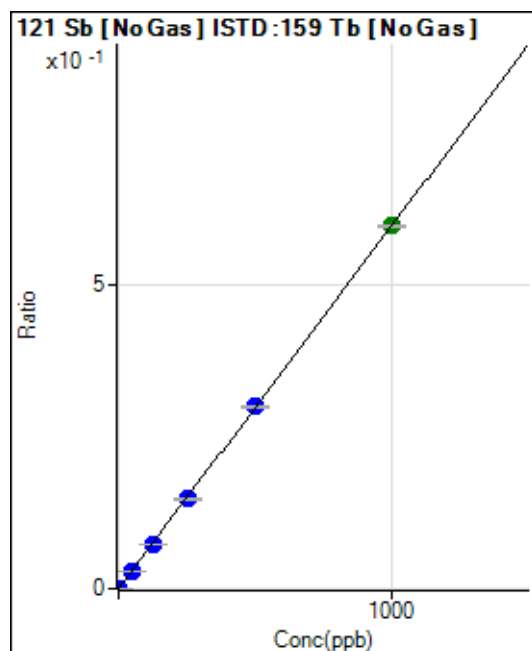
$$y = 4.8065E-004 * x + 6.4557E-005$$

$$R = 1.0000$$

$$DL = 0.04507$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	45.9
2	☐	0.200					
3	☐	2.000	1.910	17530.98	0.0011	P	3.5
4	☐	50.000	49.110	473121.22	0.0292	P	1.2
5	☐	125.000	123.289	1198413.88	0.0734	P	0.9
6	☐	250.000	246.591	2427053.07	0.1468	P	1.3
7	☐	500.000	501.226	4903423.16	0.2984	P	1.3
8	☐	1000.000	1000.498	9859410.90	0.5956	A	0.3
9	☐			25073.09	0.0016	P	4.5

$$y = 5.9534E-004 * x + 3.8567E-006$$

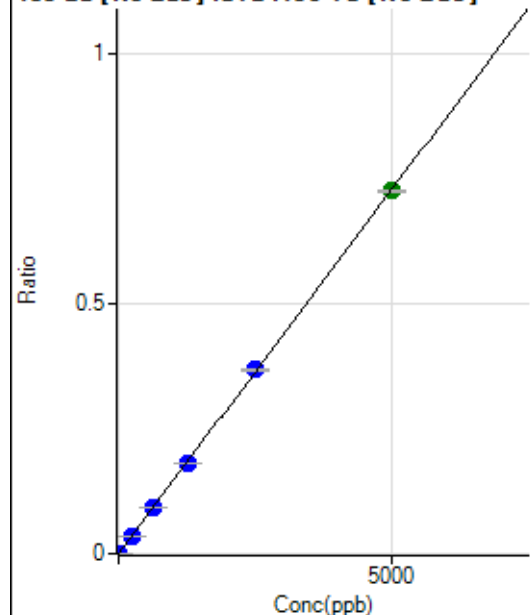
$$R = 1.0000$$

$$DL = 0.008924$$

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	38.89	0.0000	P	68.8
2	☐	1.000					
3	☐	10.000	9.649	21598.14	0.0014	P	6.5
4	☐	250.000	249.789	588616.19	0.0364	P	0.4
5	☐	625.000	625.045	1486184.23	0.0910	P	0.4
6	☐	1250.000	1246.077	3000064.24	0.1815	P	1.1
7	☐	2500.000	2527.718	6048662.85	0.3681	P	1.6
8	☐	5000.000	4987.128	12021591.07	0.7263	A	0.4
9	☐			3103.26	0.0002	P	2.8

$$y = 1.4563E-004 * x + 2.4488E-006$$

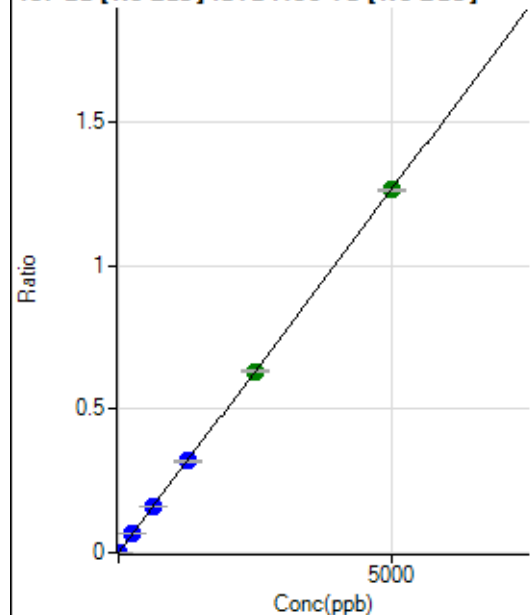
$$R = 1.0000$$

$$DL = 0.03473$$

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	52.78	0.0000	P	63.4
2	☐	1.000					
3	☐	10.000	9.771	37955.60	0.0025	P	6.2
4	☐	250.000	251.978	1030512.44	0.0637	P	0.3
5	☐	625.000	629.567	2597985.30	0.1591	P	0.4
6	☐	1250.000	1260.366	5266647.60	0.3186	P	0.7
7	☐	2500.000	2501.374	10388402.23	0.6322	A	1.6
8	☐	5000.000	4996.052	20901425.12	1.2627	A	0.5
9	☐			5851.47	0.0004	P	3.9

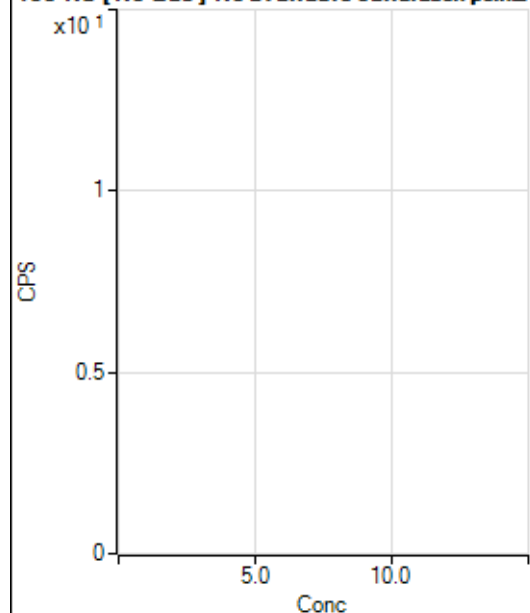
$$y = 2.5275E-004 * x + 3.3171E-006$$

$$R = 1.0000$$

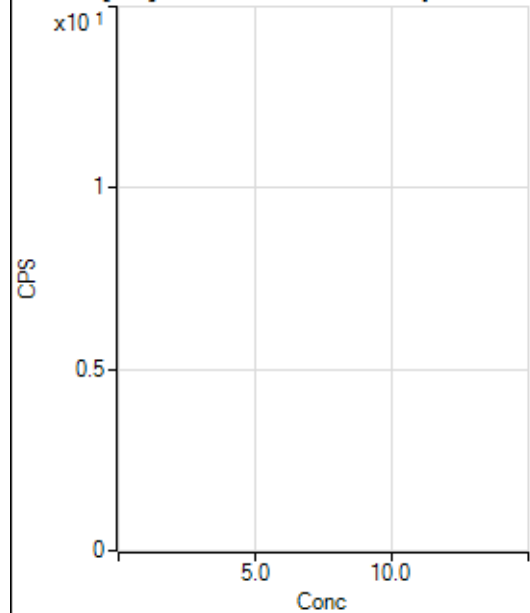
$$DL = 0.02496$$

Weight: <None>

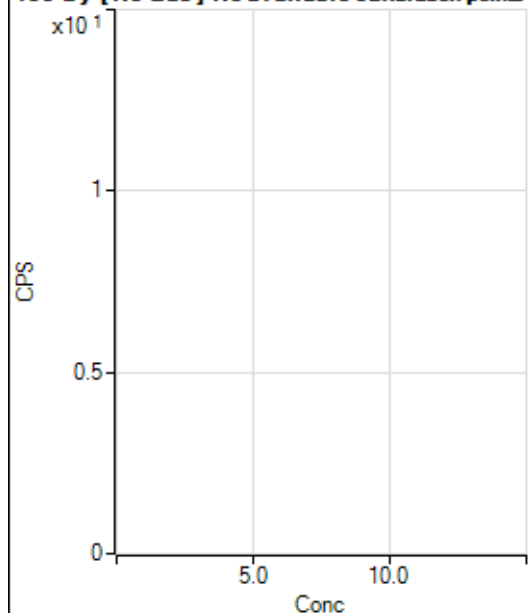
Min Conc: 0

150 Nd [No Gas] No available calibration points

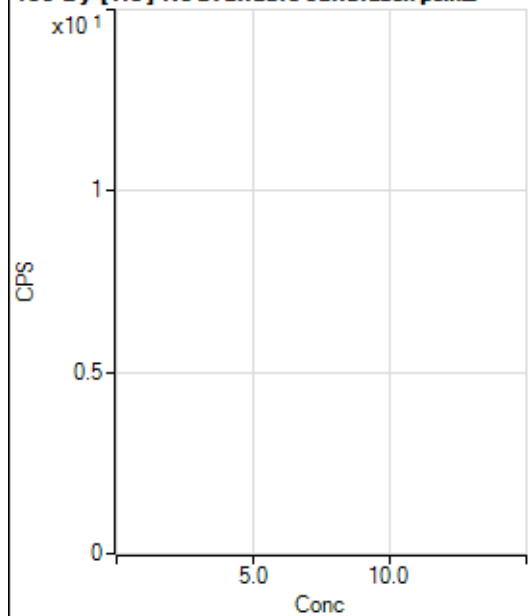
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐						
3	☐			0.00		P	
4	☐			48.89		P	7.9
5	☐			88.89		P	30.3
6	☐			220.01		P	5.2
7	☐			393.35		P	17.6
8	☐			768.94		P	9.4
9	☐			117.78		P	29.0

150 Nd [He] No available calibration points

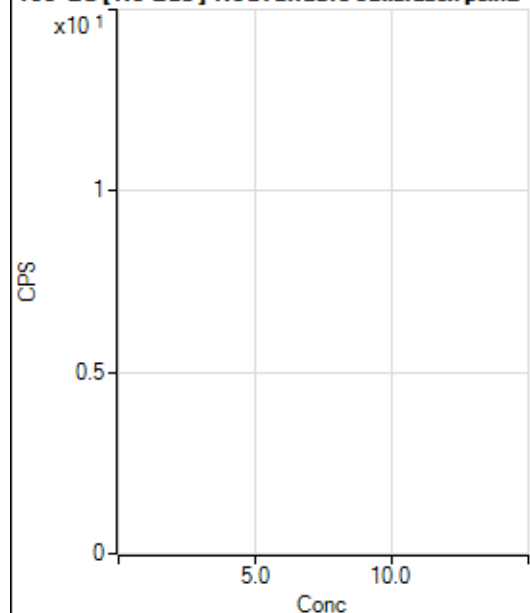
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			0.00		P	
4	☐			4.44		P	114.
5	☐			12.22		P	15.7
6	☐			20.00		P	33.4
7	☐			30.00		P	29.4
8	☐			105.56		P	12.8
9	☐			57.78		P	6.7

156 Dy [No Gas] No available calibration points

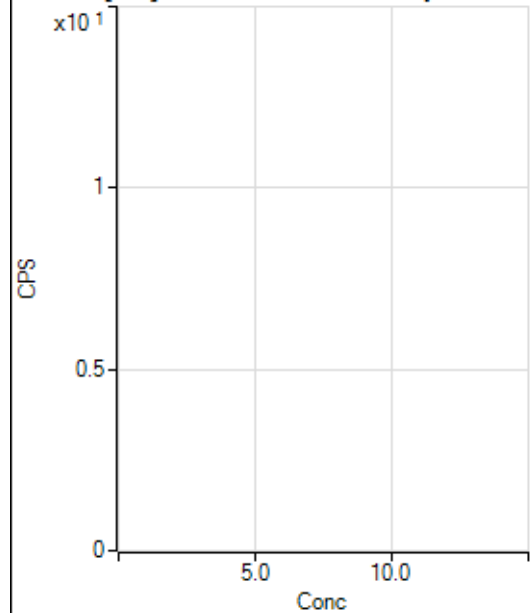
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐						
3	☐			22.22		P	43.3
4	☐			11.11		P	114.
5	☐			33.33		P	50.0
6	☐			61.11		P	15.7
7	☐			100.00		P	38.2
8	☐			163.89		P	12.8
9	☐			91.67		P	24.1

156 Dy [He] No available calibration points

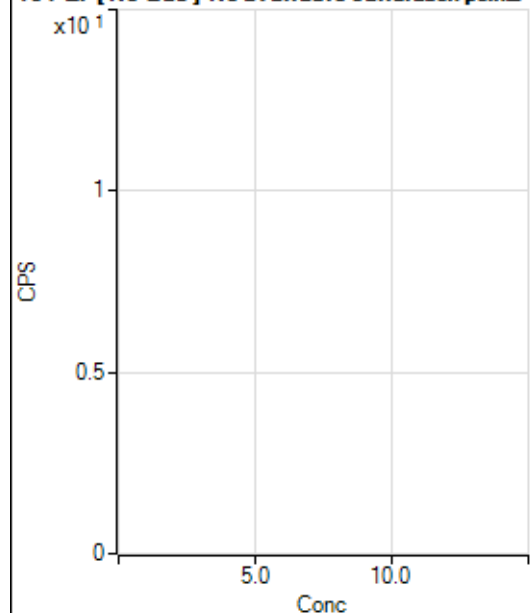
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐						
3	☐			5.56		P	91.6
4	☐			5.55		P	69.3
5	☐			14.44		P	53.3
6	☐			33.33		P	0.0
7	☐			40.00		P	41.7
8	☐			106.67		P	8.3
9	☐			48.89		P	17.2

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

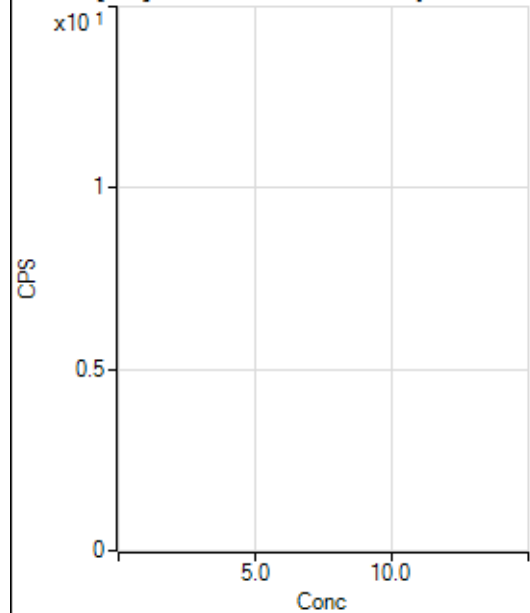
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	44.1
2	☐						
3	☐			36.11		P	58.1
4	☐			69.45		P	50.0
5	☐			52.78		P	24.1
6	☐			91.67		P	36.4
7	☐			108.34		P	33.5
8	☐			97.23		P	13.1
9	☐			80.56		P	76.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			133.34		P	13.9
2	☐						
3	☐			106.67		P	10.8
4	☐			98.89		P	13.6
5	☐			107.78		P	14.6
6	☐			121.11		P	14.1
7	☐			133.34		P	28.2
8	☐			124.45		P	13.2
9	☐			131.12		P	19.4

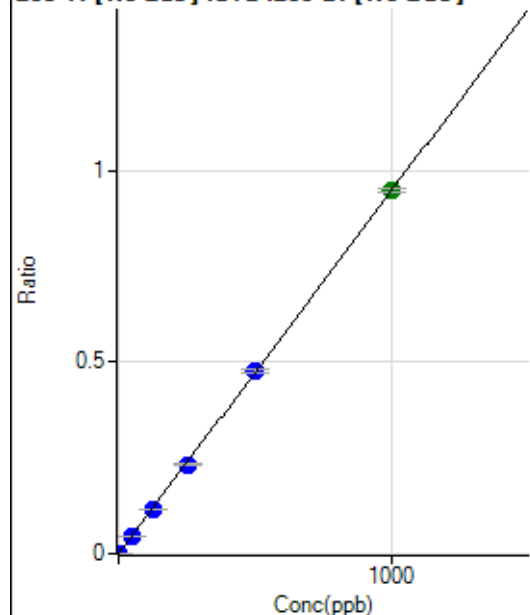
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	60.1
2	☐						
3	☐			94.45		P	13.5
4	☐			30.55		P	68.6
5	☐			52.78		P	24.1
6	☐			66.67		P	33.1
7	☐			91.67		P	27.3
8	☐			91.67		P	9.1
9	☐			66.67		P	37.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	30.2
2	☐						
3	☐			36.67		P	9.1
4	☐			33.33		P	43.6
5	☐			33.33		P	36.1
6	☐			31.11		P	22.3
7	☐			28.89		P	17.6
8	☐			66.67		P	8.7
9	☐			46.67		P	18.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	155.56	0.0000	P	6.2
2	☐	0.100					
3	☐	1.000	0.954	8489.16	0.0009	P	4.1
4	☐	50.000	49.288	452285.76	0.0467	P	1.3
5	☐	125.000	122.059	1138183.52	0.1156	P	0.8
6	☐	250.000	245.229	2297809.40	0.2323	P	1.4
7	☐	500.000	503.851	4587282.83	0.4773	P	2.2
8	☐	1000.000	999.671	8998282.75	0.9470	A	1.0
9	☐			4823.32	0.0006	P	7.7

$$y = 9.4728\text{E-}004 * x + 1.6087\text{E-}005$$

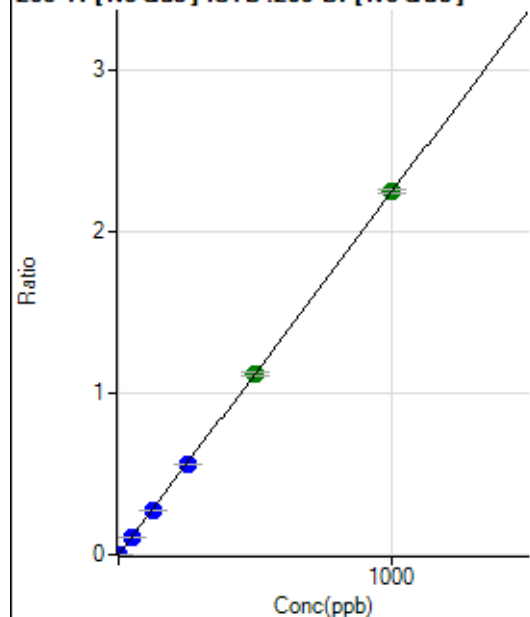
$$R = 1.0000$$

$$DL = 0.003135$$

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	361.13	0.0000	P	20.2
2	☐	0.100					
3	☐	1.000	0.945	19887.91	0.0022	P	5.7
4	☐	50.000	49.246	1069060.13	0.1104	P	0.8
5	☐	125.000	122.385	2699776.82	0.2743	P	0.8
6	☐	250.000	249.339	5527081.94	0.5588	P	1.4
7	☐	500.000	498.499	10736334.53	1.1172	A	2.5
8	☐	1000.000	1001.280	21321785.89	2.2439	A	0.9
9	☐			10835.45	0.0013	P	2.9

$$y = 0.0022 * x + 3.7444\text{E-}005$$

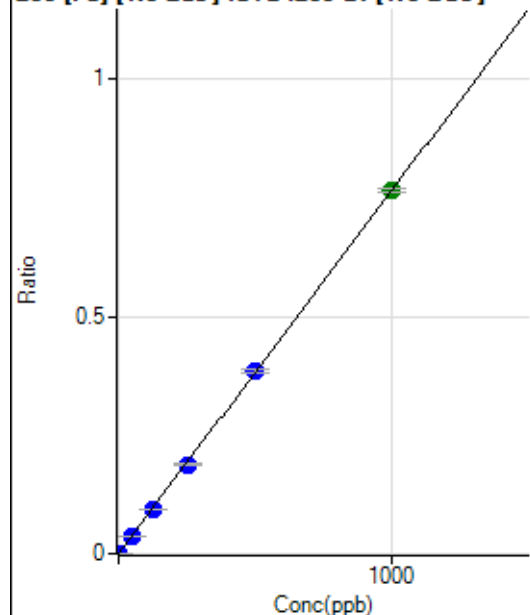
$$R = 1.0000$$

$$DL = 0.01011$$

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	635.22	0.0001	P	4.4
2	☐	0.100					
3	☐	1.000	0.975	7487.52	0.0008	P	3.0
4	☐	50.000	49.677	368169.64	0.0380	P	0.7
5	☐	125.000	122.347	920630.31	0.0935	P	1.3
6	☐	250.000	245.455	1855445.41	0.1876	P	1.4
7	☐	500.000	503.180	3695097.77	0.3845	P	2.5
8	☐	1000.000	999.894	7259380.66	0.7640	A	1.1
9	☐			13833.48	0.0017	P	1.9

$$y = 7.6400\text{E-}004 * x + 6.5740\text{E-}005$$

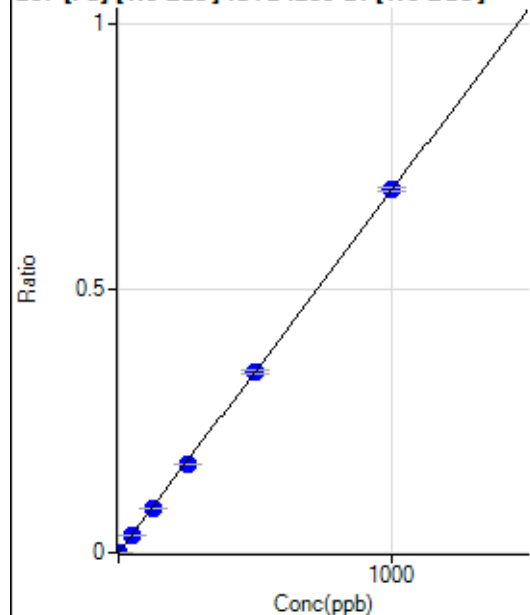
$$R = 1.0000$$

$$DL = 0.01131$$

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	562.99	0.0001	P	6.9
2	☐	0.100					
3	☐	1.000	0.932	6420.24	0.0007	P	8.3
4	☐	50.000	49.007	325630.90	0.0336	P	0.2
5	☐	125.000	122.089	823661.12	0.0837	P	0.5
6	☐	250.000	244.172	1654701.36	0.1673	P	1.8
7	☐	500.000	500.309	3293990.96	0.3427	P	2.2
8	☐	1000.000	1001.716	6520115.60	0.6862	P	1.1
9	☐			11870.45	0.0014	P	0.6

$$y = 6.8495\text{E-}004 * x + 5.8327\text{E-}005$$

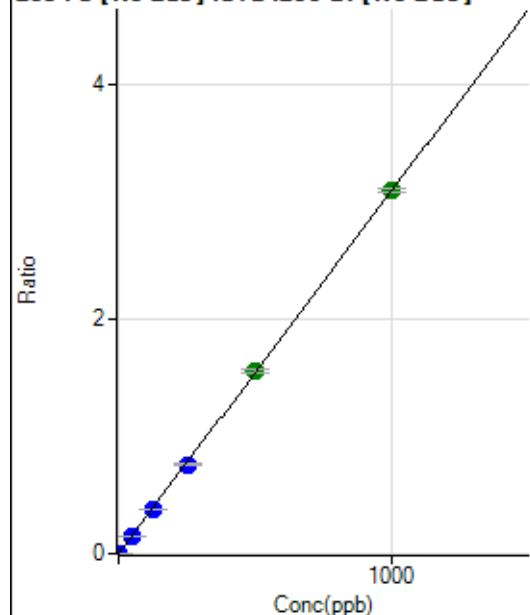
$$R = 1.0000$$

$$DL = 0.01753$$

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	2490.91	0.0003	P	1.3
2	☐	0.100					
3	☐	1.000	0.969	29969.65	0.0032	P	5.1
4	☐	50.000	49.221	1473860.79	0.1522	P	0.1
5	☐	125.000	122.505	3724544.36	0.3784	P	0.8
6	☐	250.000	245.904	7510136.73	0.7593	P	1.7
7	☐	500.000	501.942	14893037.68	1.5497	A	2.4
8	☐	1000.000	1000.404	29345867.56	3.0884	A	1.0
9	☐			54743.66	0.0066	P	1.6

$$y = 0.0031 * x + 2.5784E-004$$

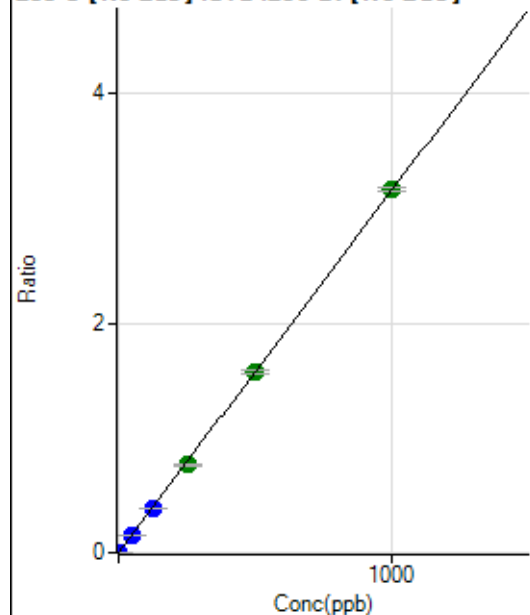
$$R = 1.0000$$

$$DL = 0.003328$$

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	86.11	0.0000	P	12.3
2	☐	0.100					
3	☐	1.000	0.882	25723.73	0.0028	P	6.2
4	☐	50.000	48.302	1474219.93	0.1522	P	0.9
5	☐	125.000	121.749	3776725.21	0.3837	P	0.5
6	☐	250.000	242.861	7570353.21	0.7654	A	1.6
7	☐	500.000	498.953	15111395.30	1.5725	A	2.8
8	☐	1000.000	1002.800	30030445.81	3.1604	A	0.9
9	☐			2405.90	0.0003	P	14.0

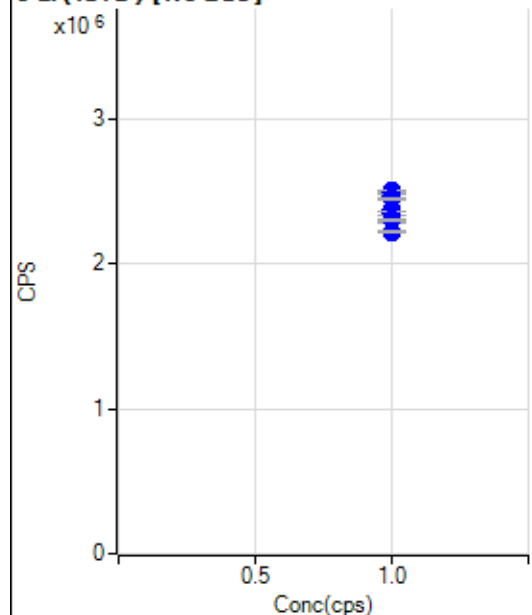
$$y = 0.0032 * x + 8.9219E-006$$

$$R = 1.0000$$

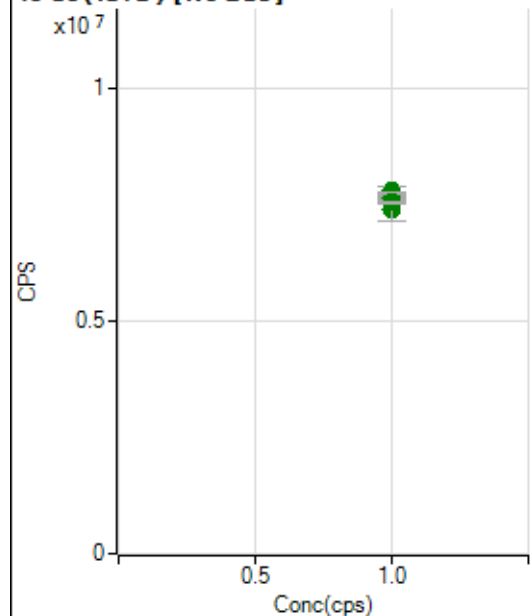
$$DL = 0.001043$$

Weight: <None>

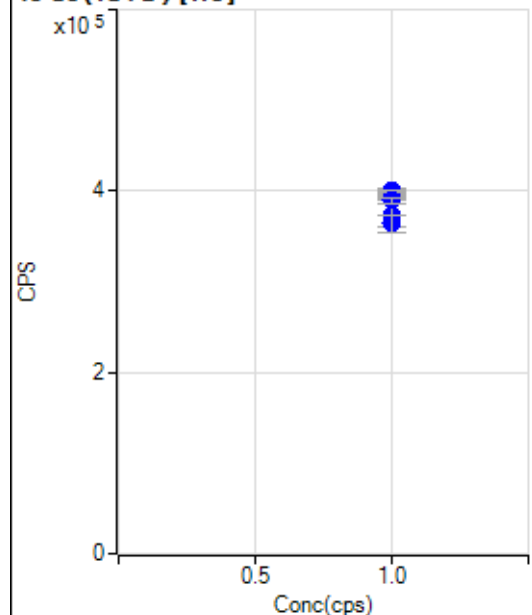
Min Conc: 0

6 Li (ISTD) [No Gas]

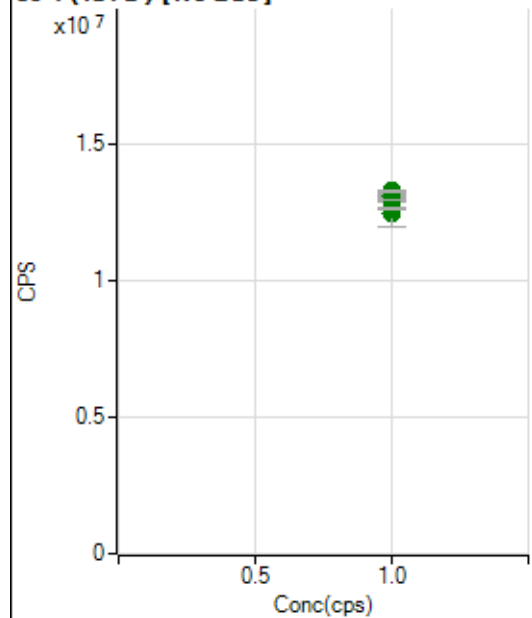
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2472018.35		P	1.7
2	☐	1.000					
3	☐	1.000		2372112.03		P	7.1
4	☐	1.000		2491917.55		P	0.7
5	☐	1.000		2501860.17		P	0.2
6	☐	1.000		2449827.39		P	0.4
7	☐	1.000		2351598.07		P	1.0
8	☐	1.000		2302602.14		P	0.6
9	☐	1.000		2218759.20		P	0.6

45 Sc (ISTD) [No Gas]

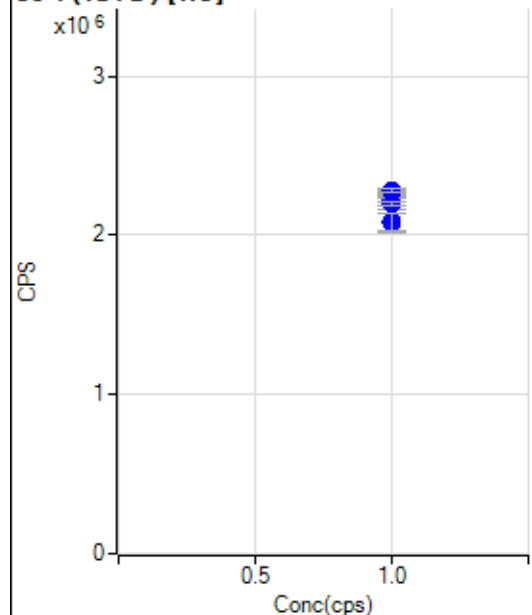
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7793568.14		A	2.3
2	☐	1.000					
3	☐	1.000		7406414.32		A	7.6
4	☐	1.000		7740135.07		A	0.5
5	☐	1.000		7701670.05		A	0.3
6	☐	1.000		7709226.47		A	1.5
7	☐	1.000		7656082.29		A	1.6
8	☐	1.000		7747236.63		A	0.4
9	☐	1.000		7544585.93		A	0.6

45 Sc (ISTD) [He]

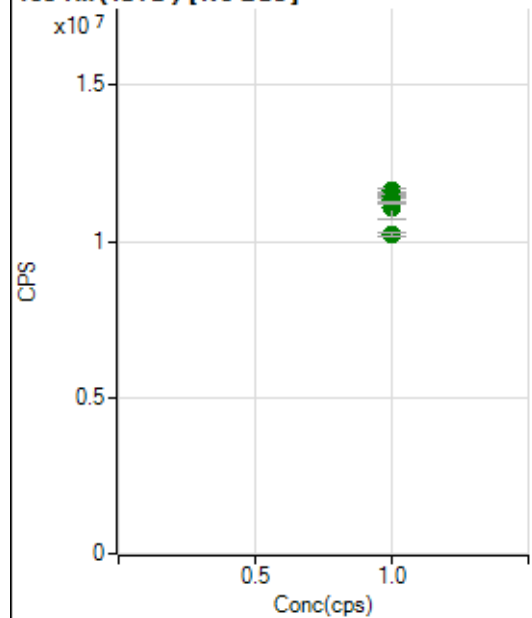
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		397931.36		P	1.1
2	☐	1.000					
3	☐	1.000		373262.91		P	7.2
4	☐	1.000		395783.23		P	0.9
5	☐	1.000		391844.85		P	0.9
6	☐	1.000		400325.11		P	1.8
7	☐	1.000		364229.15		P	5.3
8	☐	1.000		399549.96		P	0.6
9	☐	1.000		389525.14		P	1.4

89 Y (ISTD) [No Gas]

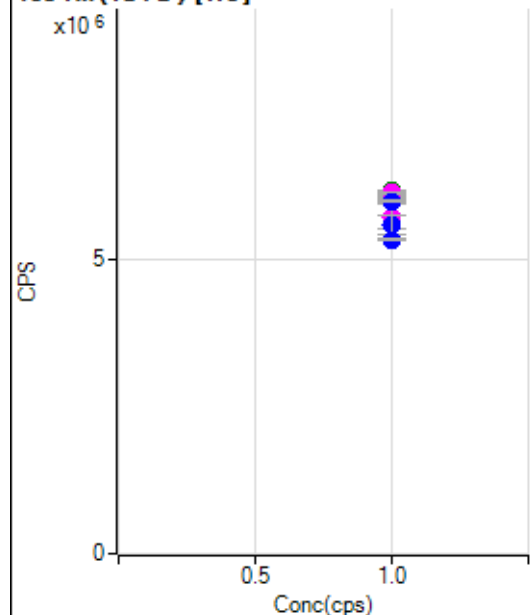
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12988571.19		A	1.9
2	☐	1.000					
3	☐	1.000		12438688.84		A	7.2
4	☐	1.000		12987816.06		A	0.5
5	☐	1.000		13025461.05		A	0.4
6	☐	1.000		13071978.69		A	1.1
7	☐	1.000		13076066.61		A	1.5
8	☐	1.000		13289827.30		A	0.3
9	☐	1.000		12637354.67		A	0.8

89 Y(ISTD) [He]

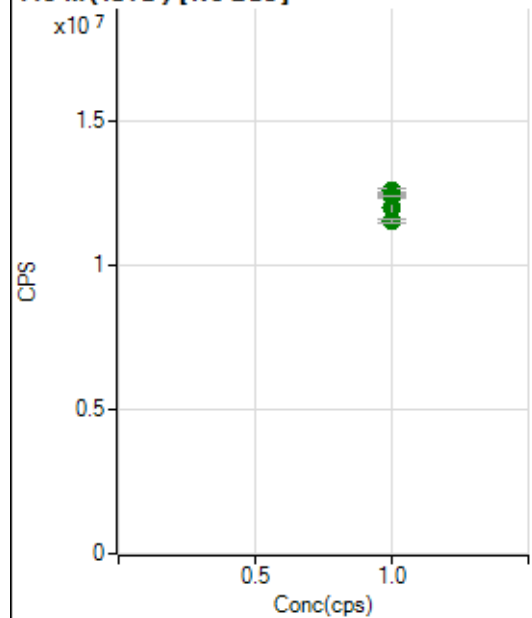
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2250360.52		P	0.8
2	☐	1.000					
3	☐	1.000		2089328.15		P	7.1
4	☐	1.000		2236856.39		P	0.7
5	☐	1.000		2217775.66		P	1.2
6	☐	1.000		2270562.53		P	0.8
7	☐	1.000		2079632.45		P	5.5
8	☐	1.000		2277708.07		P	0.9
9	☐	1.000		2196462.14		P	0.9

103 Rh(ISTD) [No Gas]

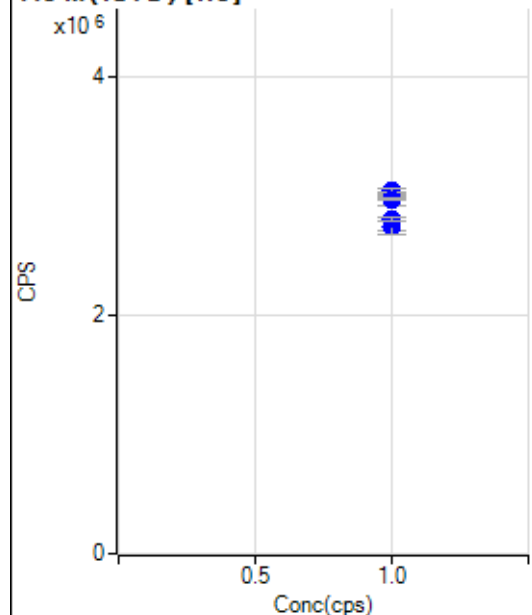
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11621834.89		A	1.8
2	☐	1.000					
3	☐	1.000		11117134.71		A	7.0
4	☐	1.000		11536803.47		A	0.4
5	☐	1.000		11485085.15		A	0.6
6	☐	1.000		11459199.91		A	1.4
7	☐	1.000		11311378.72		A	1.6
8	☐	1.000		11244726.73		A	0.4
9	☐	1.000		10210356.39		A	0.9

103 Rh (ISTD) [He]

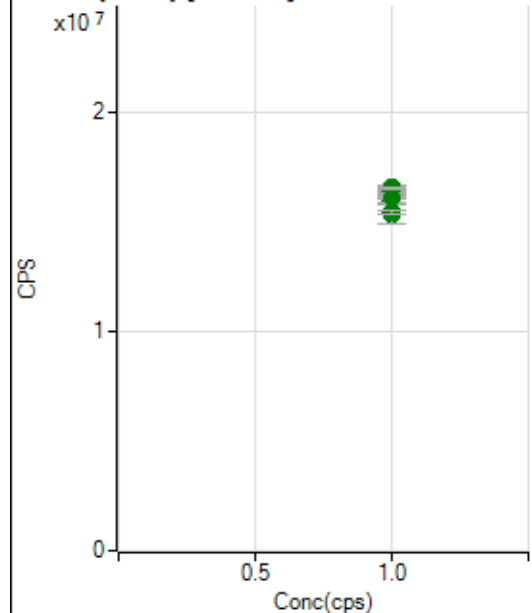
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6184536.99		A	0.5
2	☐	1.000					
3	☐	1.000		5752824.29		M	7.2
4	☐	1.000		6150507.62		M	0.8
5	☐	1.000		6072501.85		M	0.4
6	☐	1.000		6150721.99		M	0.2
7	☐	1.000		5600966.93		P	5.5
8	☐	1.000		6010057.69		P	0.2
9	☐	1.000		5357112.66		P	0.7

115 In (ISTD) [No Gas]

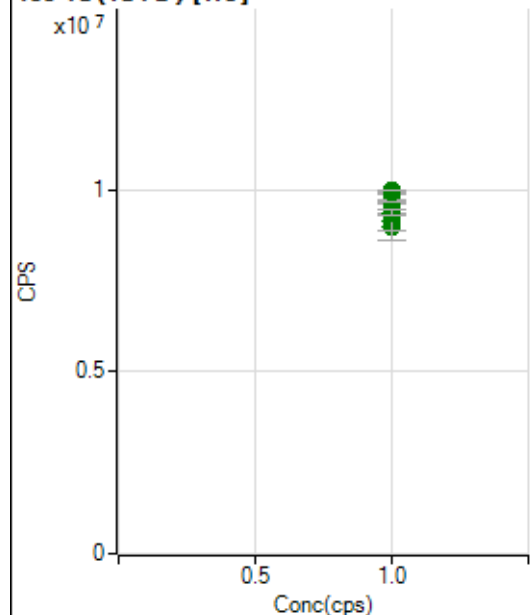
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12555512.92		A	1.8
2	☐	1.000					
3	☐	1.000		12023154.57		A	6.6
4	☐	1.000		12519047.33		A	0.1
5	☐	1.000		12522516.73		A	0.9
6	☐	1.000		12598330.65		A	1.7
7	☐	1.000		12434476.89		A	1.6
8	☐	1.000		12428252.88		A	0.4
9	☐	1.000		11540200.42		A	0.9

115 In (ISTD) [He]

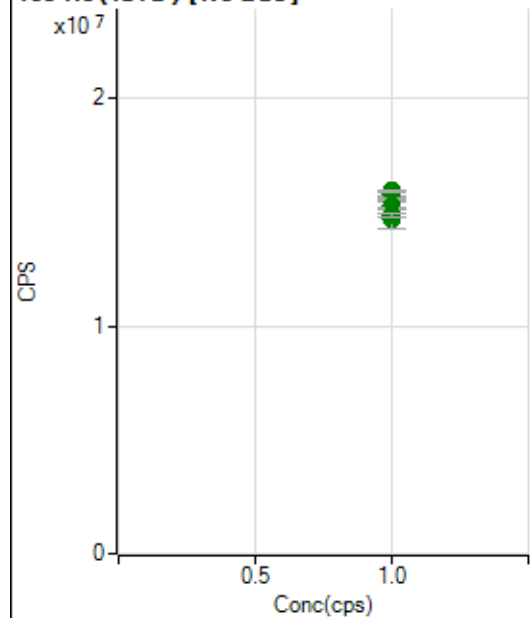
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3019077.27		P	1.0
2	☐	1.000					
3	☐	1.000		2812197.74		P	7.5
4	☐	1.000		3021520.57		P	0.3
5	☐	1.000		2980474.70		P	1.2
6	☐	1.000		3045240.22		P	1.1
7	☐	1.000		2751738.85		P	5.3
8	☐	1.000		2974061.08		P	0.4
9	☐	1.000		2811061.45		P	0.9

159 Tb (ISTD) [No Gas]

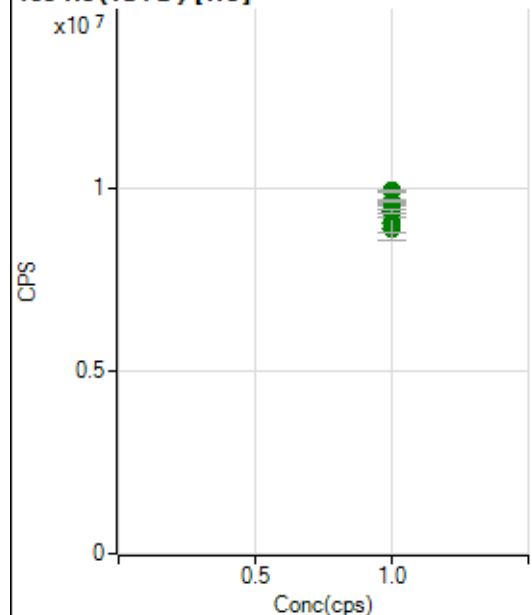
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15936817.12		A	1.9
2	☐	1.000					
3	☐	1.000		15388528.10		A	6.6
4	☐	1.000		16180205.32		A	0.2
5	☐	1.000		16327066.98		A	0.6
6	☐	1.000		16533798.23		A	1.3
7	☐	1.000		16434271.70		A	1.5
8	☐	1.000		16552568.50		A	0.3
9	☐	1.000		15469127.83		A	1.3

159 Tb (ISTD) [He]

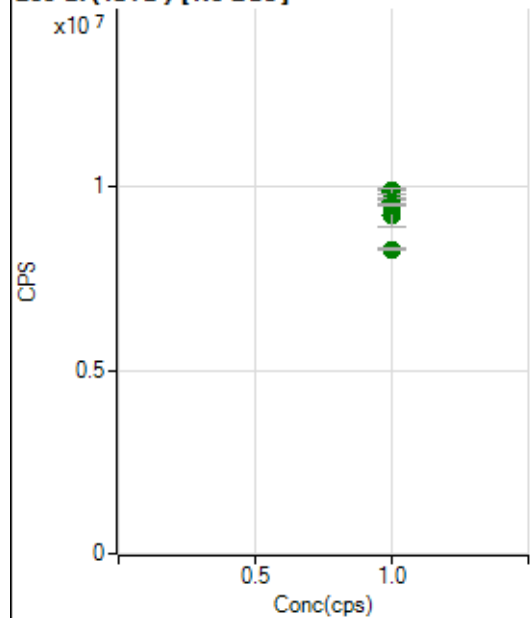
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9627019.58		A	0.4
2	☐	1.000					
3	☐	1.000		8957622.30		A	7.4
4	☐	1.000		9636723.74		A	0.4
5	☐	1.000		9674326.80		A	0.6
6	☐	1.000		9929638.46		A	0.6
7	☐	1.000		9115216.12		A	5.3
8	☐	1.000		9968961.80		A	0.2
9	☐	1.000		9377537.36		A	1.3

165 Ho (ISTD) [No Gas]

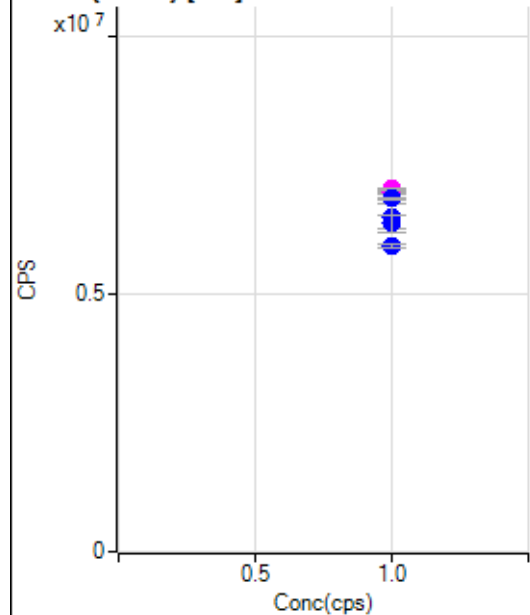
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15301464.58		A	1.9
2	☐	1.000					
3	☐	1.000		14748680.37		A	6.5
4	☐	1.000		15472442.01		A	0.5
5	☐	1.000		15647715.80		A	0.8
6	☐	1.000		15892865.81		A	1.6
7	☐	1.000		15810707.13		A	1.9
8	☐	1.000		15953399.14		A	0.5
9	☐	1.000		14910851.55		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9576308.67		A	1.0
2	☐	1.000					
3	☐	1.000		8892916.33		A	7.1
4	☐	1.000		9602119.58		A	0.4
5	☐	1.000		9656689.51		A	1.0
6	☐	1.000		9931212.56		A	0.6
7	☐	1.000		9053864.10		A	5.4
8	☐	1.000		9930716.45		A	0.3
9	☐	1.000		9388154.37		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9662546.04		A	2.5
2	☐	1.000					
3	☐	1.000		9248557.22		A	6.8
4	☐	1.000		9683956.31		A	0.4
5	☐	1.000		9842878.60		A	0.9
6	☐	1.000		9892358.26		A	1.7
7	☐	1.000		9613709.37		A	2.2
8	☐	1.000		9502522.36		A	0.8
9	☐	1.000		8308026.47		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6972680.59		P	0.7
2	☐	1.000					
3	☐	1.000		6512781.78		P	7.5
4	☐	1.000		7005529.27		P	0.4
5	☐	1.000		6971927.81		M	1.0
6	☐	1.000		7042878.58		M	0.5
7	☐	1.000		6378238.17		P	5.4
8	☐	1.000		6853364.97		P	0.3
9	☐	1.000		5944602.97		P	1.0

US EPA Tune Check Sample Report

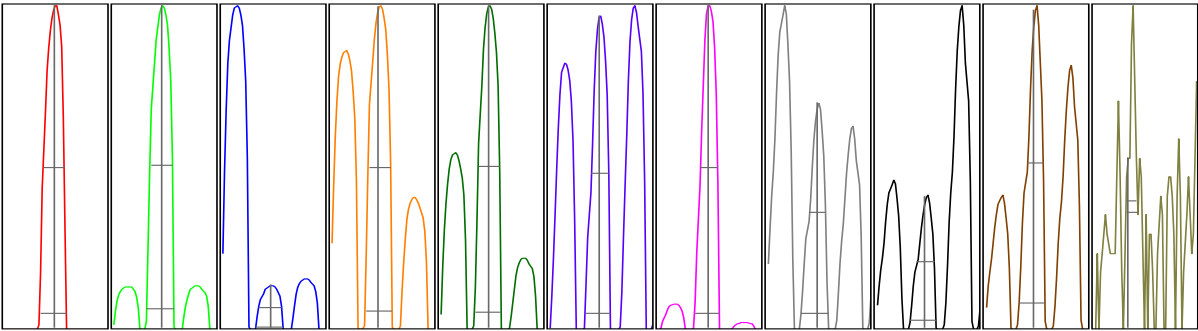
Batch Folder D:\ICP-MS Data\P7013118-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	9085	1.27	5.00	
24	525765	0.89	5.00	
25	71752	1.00	5.00	
26	82074	0.86	5.00	
59	103953	1.02	5.00	
113	12652	1.15	5.00	
115	162961	0.87	5.00	
206	36026	1.00	5.00	
207	32754	1.21	5.00	
208	77382	1.09	5.00	
220	0	21.03		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	9145	9184	9105	8888	9103
24	528608	526749	527891	517482	528097
25	72047	72045	71961	70486	72221
26	82377	82273	82347	80823	82551
59	103948	103975	104621	102233	104986
113	12673	12654	12738	12408	12785
115	163524	162785	163421	160653	164423
206	36277	35940	36233	35429	36250
207	32886	32857	33096	32067	32866
208	77651	77506	77939	75912	77901
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	15556	9.00	8.9 - 9.1		0.781	0.900	
24	853151	23.95	23.9 - 24.1		0.787	0.900	
25	115291	24.95	24.9 - 25.1		0.787	0.900	
26	133360	25.90	25.9 - 26.1		0.785	0.900	
59	177805	58.95	58.9 - 59.1		0.776	0.900	
113	24601	113.00	112.9 - 113.1		0.729	0.900	
115	321796	115.00	114.9 - 115.1		0.716	0.900	
206	73169	206.00	205.9 - 206.1		0.779	0.900	
207	65050	206.95	206.9 - 207.1		0.734	0.900	
208	156978	207.95	207.9 - 208.1		0.744	0.900	
220	0	219.55	-		0.321		

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.2	V	Deflect	14.8	V
Extract 2	-130.0	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	170	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	29632	0.31	
89	107985	0.51	
205	36158	0.29	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	29640	29525	29773	29579	29645
89	107986	107413	108645	107479	108404
205	36276	36172	36202	36148	35992

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	9.0	V	Deflect	2.0	V
Extract 2	-135.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-65	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	200	V			