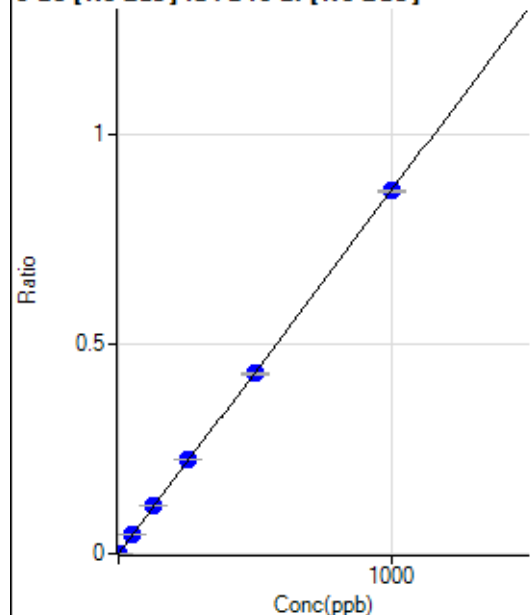


Calibration for 006CALS.d

Batch Folder: D:\ICP-MS Data\1\DATA\P7063020MS2.b\
 Analysis File: P7063020MS2.batch.bin
 DA Date-Time: 2020-06-30 15:10:34
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-06-30 14:26:33
2	007CALS.d	S02	2020-06-30 14:35:03
3	008CALS.d	S03	2020-06-30 14:39:09
4	009CALS.d	S04	2020-06-30 14:43:43
5	010CALS.d	S05	2020-06-30 14:47:30
6	011CALS.d	S06	2020-06-30 14:51:09
7	012CALS.d	S07	2020-06-30 14:54:43
8	013CALS.d	S08	2020-06-30 14:58:15

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0000	P	18.2
2	☐	1.000	0.942	3982.11	0.0008	P	2.4
3	☐	50.000	52.697	212472.04	0.0457	P	1.0
4	☐	125.000	130.042	515334.55	0.1127	P	0.4
5	☐	250.000	260.264	1014869.10	0.2256	P	0.3
6	☐	500.000	495.941	1945057.67	0.4298	P	0.8
7	☐	1000.000	998.698	3704724.07	0.8655	P	0.2
8	☐			937.09	0.0002	P	26.0

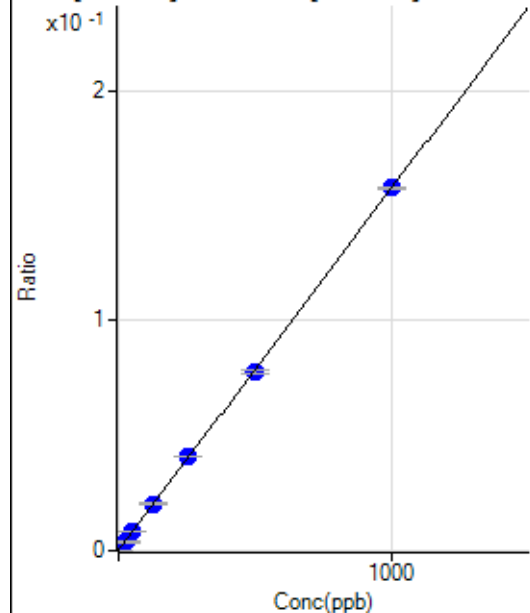
$$y = 8.6663\text{E-}004 * x + 1.8069\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01136$$

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	788.94	0.0002	P	6.0
2	☐	25.000	23.154	18142.16	0.0038	P	4.4
3	☐	50.000	53.269	39730.98	0.0085	P	3.6
4	☐	125.000	128.215	92985.74	0.0203	P	2.1
5	☐	250.000	257.887	183355.48	0.0408	P	0.9
6	☐	500.000	492.988	351836.08	0.0778	P	1.7
7	☐	1000.000	1001.015	675069.09	0.1577	P	0.7
8	☐			18790.04	0.0049	P	5.6

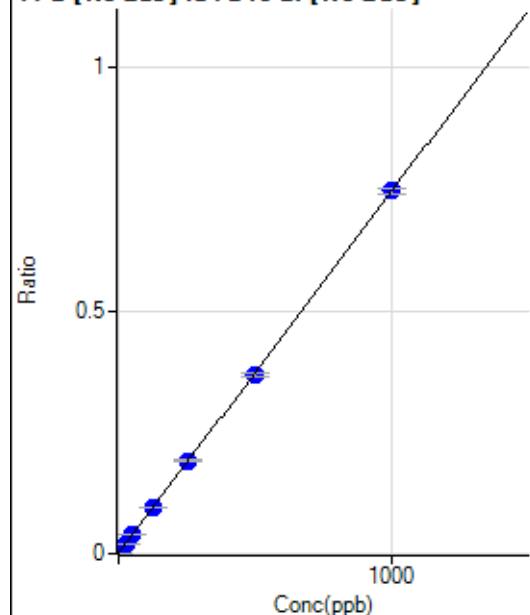
$$y = 1.5740\text{E-}004 * x + 1.6003\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1843$$

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	3408.86	0.0007	P	1.0
2	☐	25.000	23.740	87564.78	0.0184	P	2.0
3	☐	50.000	52.307	184196.89	0.0396	P	2.9
4	☐	125.000	127.068	435413.20	0.0952	P	1.4
5	☐	250.000	255.971	860001.19	0.1912	P	0.6
6	☐	500.000	493.135	1663429.18	0.3676	P	2.1
7	☐	1000.000	1001.597	3192957.02	0.7460	P	1.3
8	☐			90258.56	0.0237	P	5.1

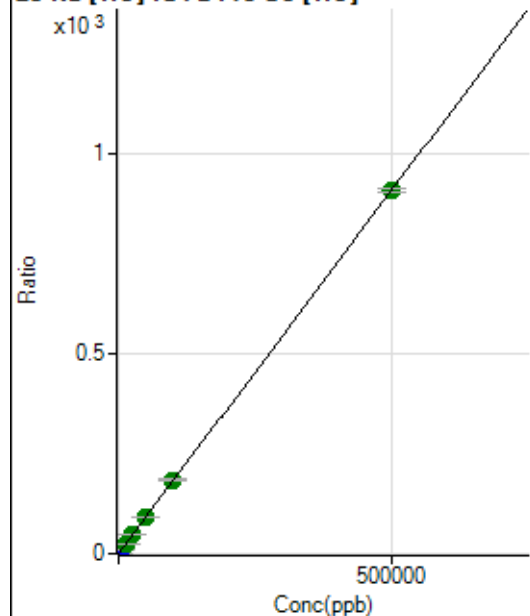
$$y = 7.4409\text{E-}004 * x + 6.9147\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02663$$

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	37479.08	0.1017	P	4.8
2	☐	500.000	500.927	387712.70	1.0134	P	0.5
3	☐	5000.000	6049.285	3884785.29	11.1109	P	10.9
4	☐	12500.000	13490.920	9121768.34	24.6541	A	0.4
5	☐	25000.000	27055.776	17794280.22	49.3410	A	0.7
6	☐	50000.000	51358.839	34344891.22	93.5705	A	0.4
7	☐	100000.00	101634.52	69127494.87	185.0679	A	1.5
8	☐	500000.00	499399.15	309307962.8	908.9657	A	0.9

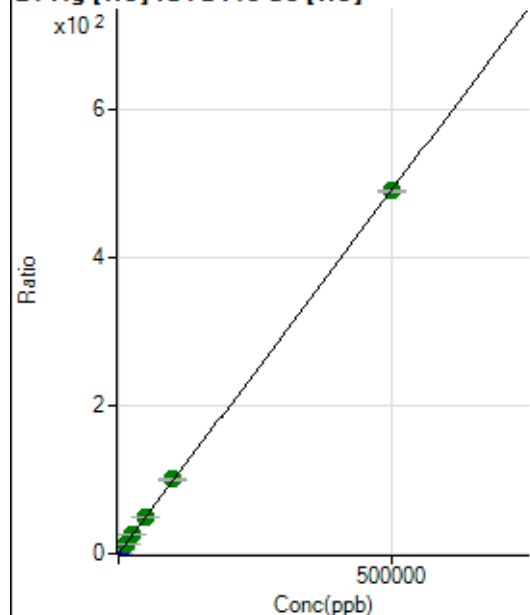
$$y = 0.0018 * x + 0.1017$$

$$R = 1.0000$$

$$DL = 8.06$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6664.19	0.0181	P	3.6
2	☐	500.000	500.941	194700.78	0.5089	P	0.6
3	☐	5000.000	6121.150	2103104.44	6.0156	P	11.0
4	☐	12500.000	13619.626	4944169.21	13.3626	A	0.3
5	☐	25000.000	27330.883	9664102.11	26.7969	A	0.1
6	☐	50000.000	51247.126	18436638.23	50.2300	A	0.5
7	☐	100000.00	101997.31	37335133.40	99.9550	A	1.7
8	☐	500000.00	499320.07	166485763.9	489.2519	A	0.8

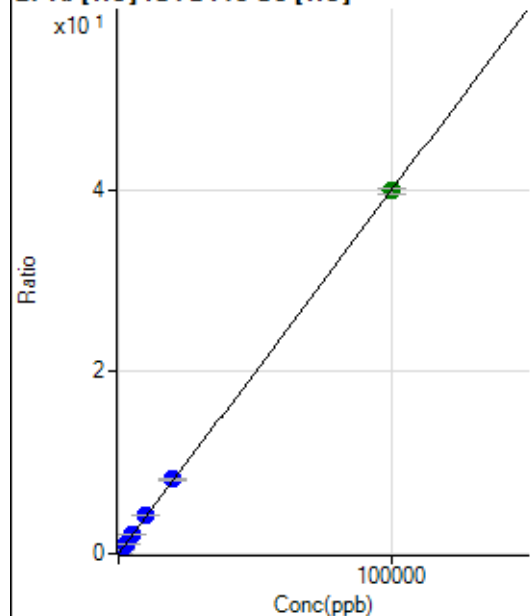
$$y = 9.7980\text{E-}004 * x + 0.0181$$

$$R = 1.0000$$

$$DL = 2$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	475.25	0.0013	P	5.2
2	☐	20.000	18.064	3251.06	0.0085	P	2.5
3	☐	1000.000	1204.192	168398.92	0.4817	P	11.1
4	☐	2500.000	2743.808	405469.67	1.0959	P	0.7
5	☐	5000.000	5503.205	792244.27	2.1968	P	0.4
6	☐	10000.000	10377.134	1520001.19	4.1412	P	0.4
7	☐	20000.000	20496.047	3054744.54	8.1781	P	1.3
8	☐	100000.00	99829.780	13552496.88	39.8277	A	1.6

$$y = 3.9894\text{E-}004 * x + 0.0013$$

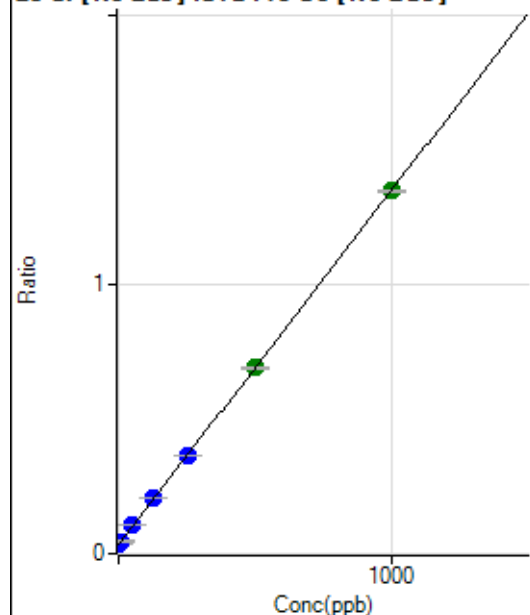
$$R = 1.0000$$

$$DL = 0.5091$$

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	361353.25	0.0331	P	1.9
2	☐	10.000	9.978	486217.45	0.0462	P	1.6
3	☐	50.000	55.581	1091661.82	0.1062	P	1.5
4	☐	125.000	132.491	2063865.54	0.2073	P	0.4
5	☐	250.000	253.261	3599846.43	0.3660	P	0.3
6	☐	500.000	499.075	6964083.92	0.6892	A	1.1
7	☐	1000.000	998.432	13098170.78	1.3457	A	0.6
8	☐			768648.07	0.0867	P	0.8

$$y = 0.0013 * x + 0.0331$$

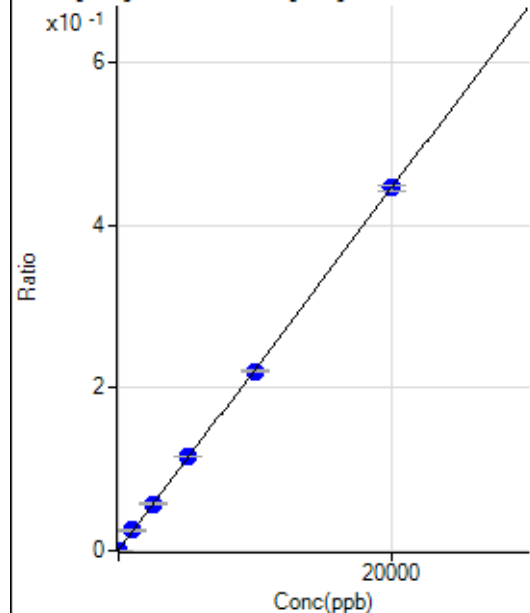
$$R = 1.0000$$

$$DL = 1.471$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-0.200	186.12	0.0005	P	13.0
2	☐	0.000	0.200	197.23	0.0005	P	20.8
3	☐	1000.000	1133.457	9011.46	0.0257	P	9.5
4	☐	2500.000	2563.462	21296.50	0.0576	P	3.9
5	☐	5000.000	5206.718	41985.21	0.1164	P	0.8
6	☐	10000.000	9855.940	80721.52	0.2199	P	1.0
7	☐	20000.000	20005.745	166555.11	0.4459	P	1.5
8	☐			241.68	0.0007	P	17.8

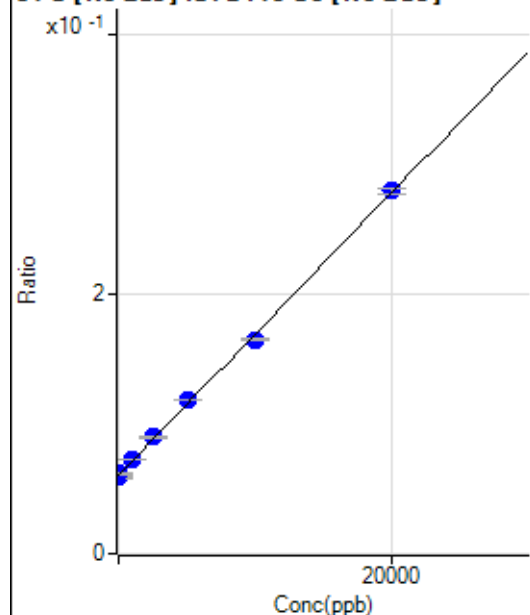
$$y = 2.2261E-005 * x + 5.1071E-004$$

$$R = 0.9999$$

$$DL = 11.66$$

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	-148.305	643555.14	0.0589	P	1.9
2	☐	0.000	148.305	653986.43	0.0622	P	2.5
3	☐	1000.000	1104.134	746316.30	0.0726	P	0.7
4	☐	2500.000	2706.057	896434.32	0.0900	P	0.9
5	☐	5000.000	5267.224	1159866.25	0.1179	P	0.0
6	☐	10000.000	9577.648	1666407.35	0.1649	P	0.5
7	☐	20000.000	20113.406	2722555.49	0.2797	P	1.3
8	☐			529403.27	0.0597	P	1.4

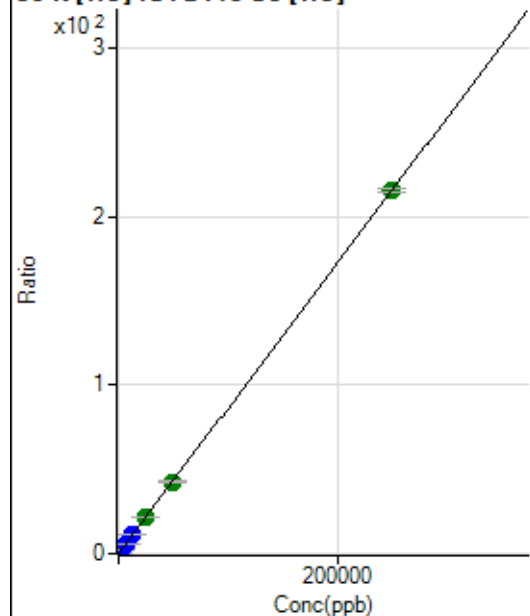
$$y = 1.0897\text{E-}005 * x + 0.0605$$

$$R = 0.9995$$

$$DL = 364$$

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	28640.53	0.0778	P	4.7
2	☐	500.000	476.926	186857.96	0.4884	P	0.8
3	☐	2500.000	2861.555	888994.11	2.5417	P	10.3
4	☐	6250.000	6522.429	2106560.51	5.6938	P	0.9
5	☐	12500.000	13037.627	4076577.46	11.3037	P	0.3
6	☐	25000.000	24663.970	7823374.40	21.3144	A	1.0
7	☐	50000.000	49545.967	15964199.80	42.7388	A	1.5
8	☐	250000.00	250087.14	73301497.93	215.4125	A	1.0

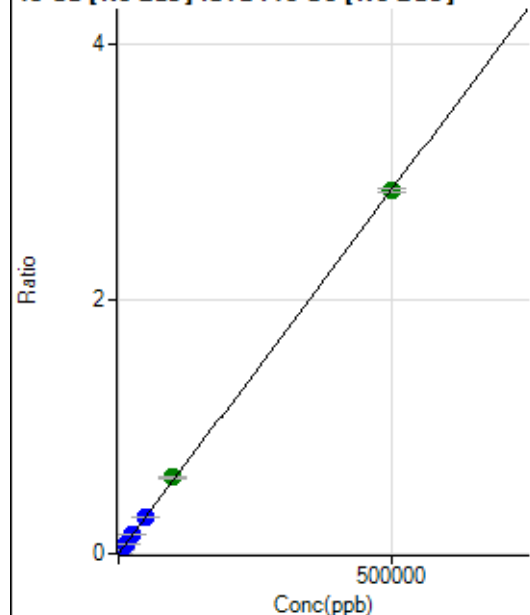
$$y = 8.6104\text{E-}004 * x + 0.0778$$

$$R = 1.0000$$

$$DL = 12.82$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1266.48	0.0001	P	5.9
2	☐	500.000	471.271	29531.50	0.0028	P	3.0
3	☐	5000.000	5446.857	321037.98	0.0312	P	0.6
4	☐	12500.000	13778.075	784515.20	0.0788	P	1.3
5	☐	25000.000	27331.945	1535960.86	0.1562	P	0.4
6	☐	50000.000	51334.037	2962982.30	0.2932	P	0.7
7	☐	100000.00	104811.19	5825955.49	0.5986	A	0.9
8	☐	500000.00	498751.36	25255980.30	2.8479	A	1.0

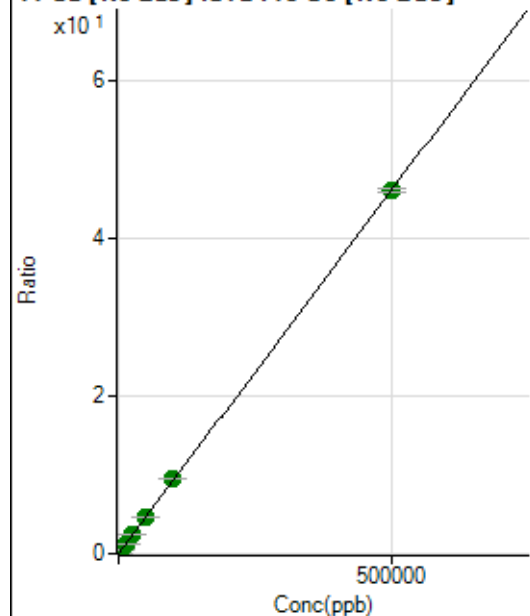
$$y = 5.7098\text{E-}006 * x + 1.1601\text{E-}004$$

$$R = 0.9999$$

$$DL = 3.619$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39180.43	0.0036	P	1.5
2	☐	500.000	463.646	487216.39	0.0463	P	2.2
3	☐	5000.000	5240.486	5002082.82	0.4864	A	0.4
4	☐	12500.000	13279.930	12218028.69	1.2270	A	1.1
5	☐	25000.000	26577.615	24115788.55	2.4521	A	0.5
6	☐	50000.000	49990.342	46573812.82	4.6090	A	0.9
7	☐	100000.00	103928.75	93226627.72	9.5780	A	0.8
8	☐	500000.00	499114.46	407812454.2	45.9846	A	0.9

$$y = 9.2125\text{E-}005 * x + 0.0036$$

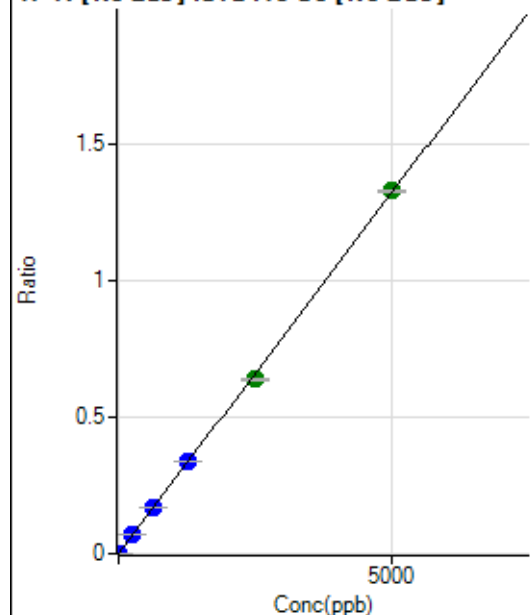
$$R = 1.0000$$

$$DL = 1.781$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.57	0.0000	P	15.4
2	☐	5.000	4.565	12831.10	0.0012	P	3.7
3	☐	250.000	258.169	699996.87	0.0681	P	1.0
4	☐	625.000	638.777	1676752.36	0.1684	P	0.5
5	☐	1250.000	1274.149	3303207.11	0.3359	P	0.7
6	☐	2500.000	2419.045	6443379.40	0.6376	A	1.0
7	☐	5000.000	5032.310	12911589.44	1.3265	A	0.6
8	☐			4295.29	0.0005	P	19.9

$$y = 2.6358E-004 * x + 1.6537E-005$$

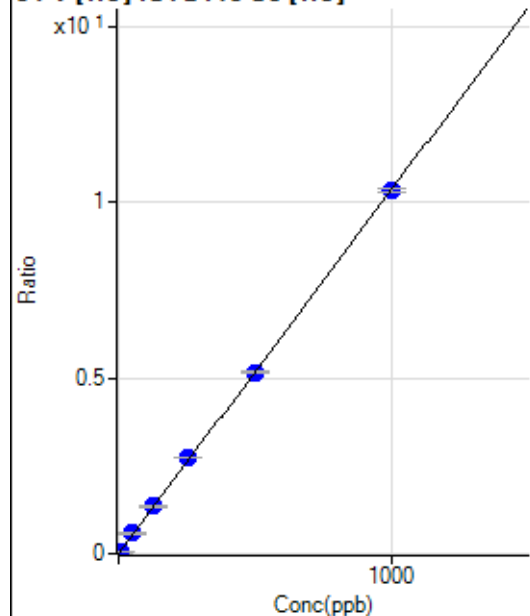
$$R = 0.9998$$

$$DL = 0.02892$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.44	0.0000	P	48.6
2	☐	5.000	4.896	19412.99	0.0507	P	1.8
3	☐	50.000	56.711	205407.68	0.5876	P	11.2
4	☐	125.000	129.543	496595.39	1.3423	P	1.1
5	☐	250.000	263.313	983955.14	2.7283	P	0.4
6	☐	500.000	498.207	1894767.00	5.1622	P	0.5
7	☐	1000.000	996.666	3857551.89	10.3270	P	0.9
8	☐			653.36	0.0019	P	9.1

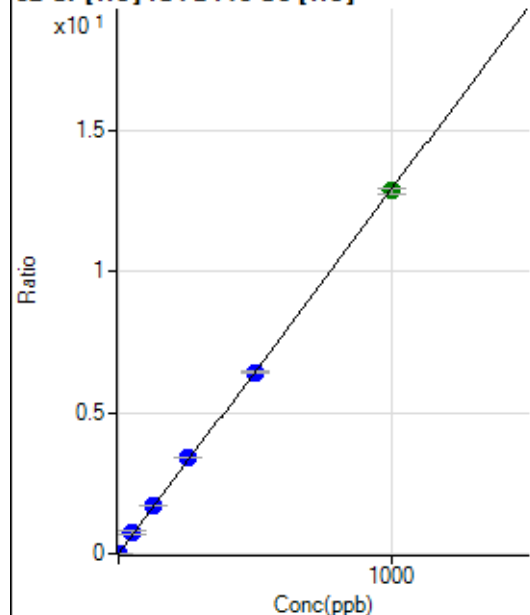
$$y = 0.0104 * x + 1.2226E-005$$

$$R = 0.9999$$

$$DL = 0.00172$$

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	730.03	0.0020	P	6.8
2	☐	2.000	2.019	10711.82	0.0280	P	0.2
3	☐	50.000	57.768	260867.05	0.7465	P	11.6
4	☐	125.000	131.516	627788.29	1.6969	P	1.2
5	☐	250.000	265.689	1235582.52	3.4260	P	0.6
6	☐	500.000	497.965	2356233.64	6.4195	P	0.7
7	☐	1000.000	995.892	4794789.51	12.8366	A	1.5
8	☐			6579.36	0.0193	P	3.2

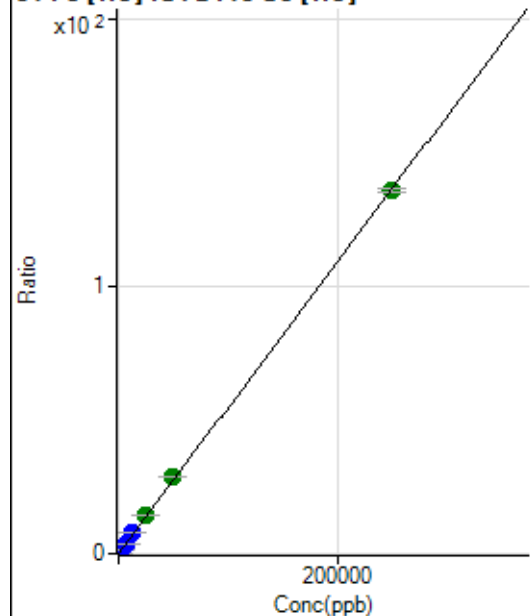
$$y = 0.0129 * x + 0.0020$$

$$R = 0.9999$$

$$DL = 0.03136$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2339.07	0.0063	P	3.1
2	☐	50.000	48.162	12463.52	0.0326	P	0.9
3	☐	2500.000	3119.678	596189.83	1.7055	P	11.1
4	☐	6250.000	7079.484	1428865.24	3.8622	P	1.4
5	☐	12500.000	14276.520	2806525.17	7.7820	P	0.6
6	☐	25000.000	26875.027	5374810.73	14.6438	A	1.1
7	☐	50000.000	52953.771	10775844.81	28.8475	A	1.1
8	☐	250000.00	249105.98	46170210.76	135.6814	A	1.0

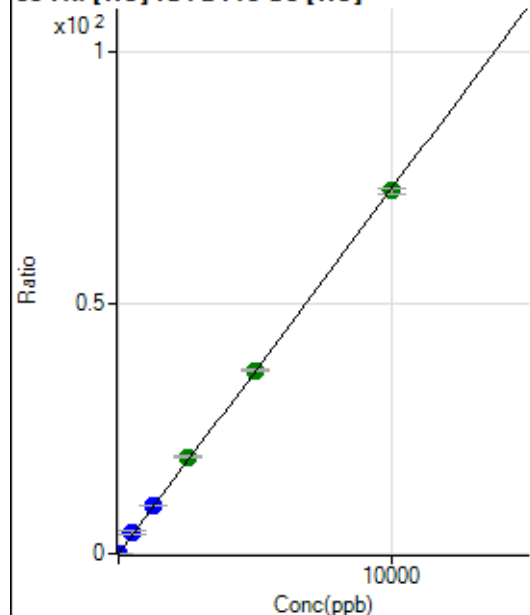
$$y = 5.4465E-004 * x + 0.0063$$

$$R = 0.9999$$

$$DL = 1.08$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.89	0.0003	P	34.8
2	☐	1.000	1.008	2922.56	0.0076	P	5.0
3	☐	500.000	579.774	1476995.76	4.2241	P	10.8
4	☐	1250.000	1306.985	3522690.40	9.5219	P	1.6
5	☐	2500.000	2657.798	6983061.91	19.3629	A	0.3
6	☐	5000.000	5017.151	13415877.85	36.5512	A	0.7
7	☐	10000.000	9940.863	27051534.04	72.4214	A	1.4
8	☐			15416.04	0.0453	P	0.8

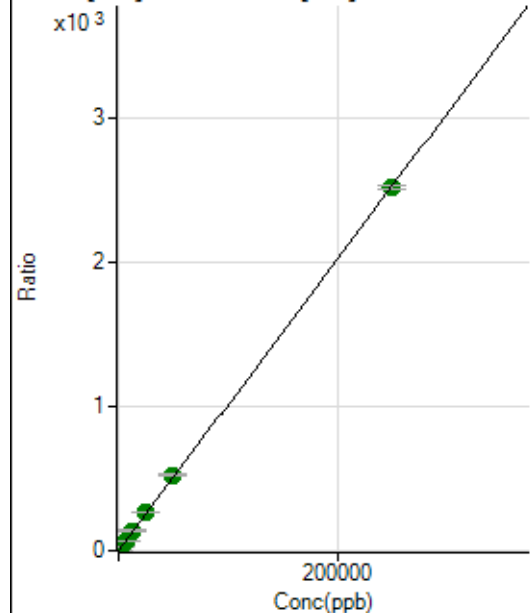
$$y = 0.0073 * x + 2.9581E-004$$

$$R = 0.9999$$

$$DL = 0.04244$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35170.31	0.0955	P	4.9
2	☐	50.000	46.124	214289.26	0.5601	P	0.5
3	☐	2500.000	2990.080	10560691.43	30.2154	A	11.4
4	☐	6250.000	6822.380	25460107.63	68.8193	A	1.8
5	☐	12500.000	13858.528	50380206.62	139.6964	A	0.4
6	☐	25000.000	26183.559	96842923.54	263.8499	A	1.0
7	☐	50000.000	52120.122	196144831.1	525.1163	A	1.4
8	☐	250000.00	249370.48	854821039.4	2,512.075	A	0.9

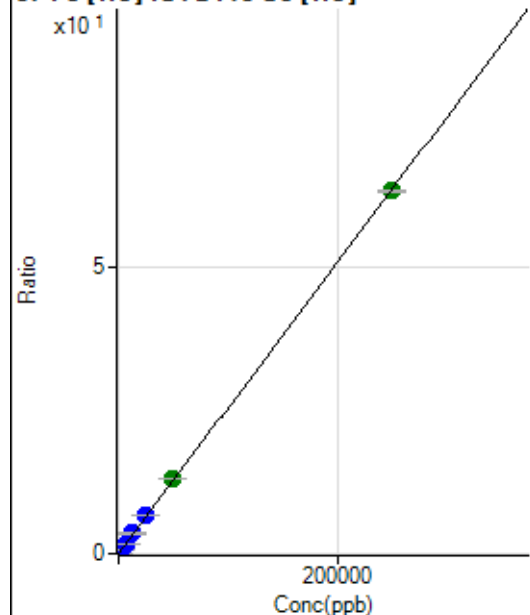
$$y = 0.0101 * x + 0.0955$$

$$R = 1.0000$$

$$DL = 1.404$$

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	961.18	0.0026	P	2.1
2	☐	50.000	47.233	5589.99	0.0146	P	2.5
3	☐	2500.000	3020.047	269376.83	0.7704	P	10.7
4	☐	6250.000	6862.919	646422.29	1.7473	P	1.7
5	☐	12500.000	13879.992	1273498.95	3.5312	P	0.7
6	☐	25000.000	25923.230	2419838.54	6.5928	P	0.8
7	☐	50000.000	51569.864	4898063.26	13.1128	A	1.2
8	☐	250000.00	249504.18	21584981.79	63.4318	A	0.8

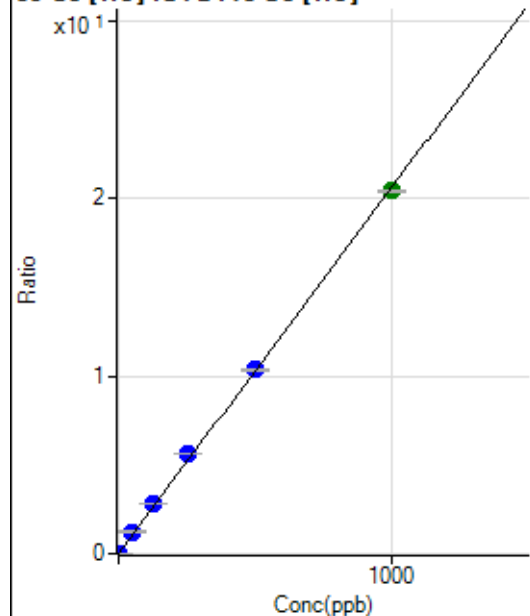
$$y = 2.5422\text{E-}004 * x + 0.0026$$

$$R = 1.0000$$

$$DL = 0.6306$$

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	111.11	0.0003	P	18.6
2	☐	1.000	1.028	8221.31	0.0215	P	1.2
3	☐	50.000	59.843	431231.12	1.2334	P	11.0
4	☐	125.000	135.829	1035592.97	2.7992	P	1.3
5	☐	250.000	270.995	2013976.60	5.5844	P	0.1
6	☐	500.000	502.620	3801569.39	10.3573	P	0.5
7	☐	1000.000	991.596	7632715.16	20.4331	A	0.5
8	☐			11055.44	0.0325	P	2.3

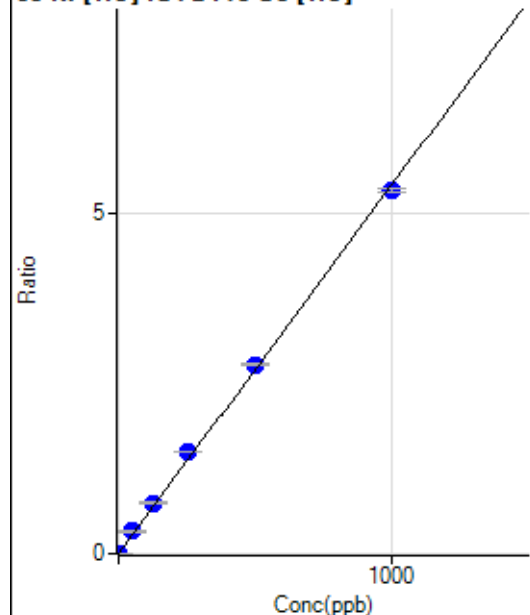
$$y = 0.0206 * x + 3.0225\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.008193$$

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	160.00	0.0004	P	9.5
2	☐	1.000	1.041	2324.66	0.0061	P	2.3
3	☐	50.000	61.043	115741.22	0.3312	P	11.8
4	☐	125.000	138.020	276884.81	0.7484	P	0.7
5	☐	250.000	275.486	538558.82	1.4933	P	0.4
6	☐	500.000	513.413	1021357.48	2.7827	P	0.7
7	☐	1000.000	984.742	1993487.00	5.3369	P	1.2
8	☐			2605.84	0.0077	P	1.9

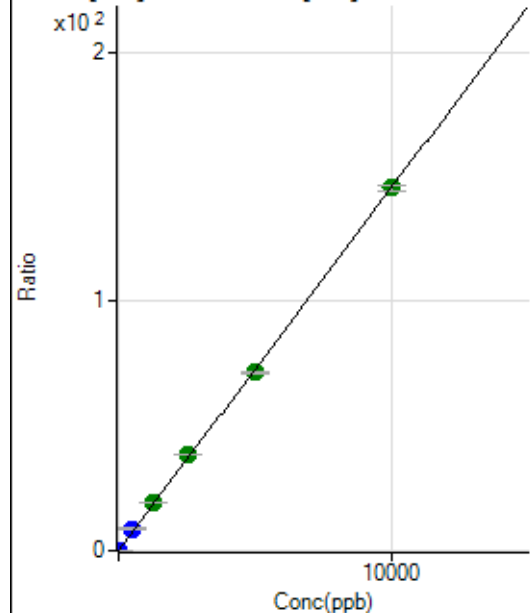
$$y = 0.0054 * x + 4.3441E-004$$

$$R = 0.9995$$

$$DL = 0.02285$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	493.35	0.0013	P	11.7
2	☐	2.000	2.241	12990.36	0.0340	P	1.5
3	☐	500.000	593.341	3017956.80	8.6351	P	11.5
4	☐	1250.000	1323.930	7127646.70	19.2659	A	1.3
5	☐	2500.000	2654.866	13932639.10	38.6325	A	0.7
6	☐	5000.000	4909.041	26218566.00	71.4332	A	1.0
7	☐	10000.000	9992.855	54312433.64	145.4082	A	1.8
8	☐			8731.60	0.0257	P	1.9

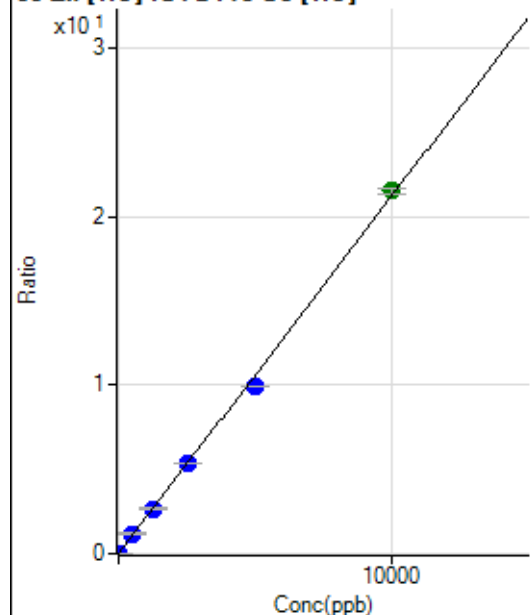
$$y = 0.0146 * x + 0.0013$$

$$R = 0.9998$$

$$DL = 0.0322$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	311.12	0.0008	P	12.9
2	☐	2.000	2.161	2079.07	0.0054	P	4.9
3	☐	500.000	553.971	411426.29	1.1766	P	10.7
4	☐	1250.000	1258.502	988450.90	2.6718	P	1.5
5	☐	2500.000	2525.895	1933631.67	5.3616	P	0.4
6	☐	5000.000	4674.867	3641973.80	9.9225	P	0.5
7	☐	10000.000	10152.331	8048487.03	21.5475	A	1.7
8	☐			6997.32	0.0206	P	1.8

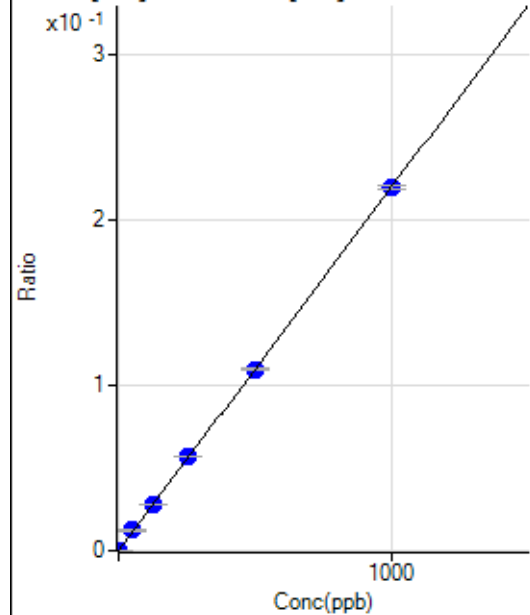
$$y = 0.0021 * x + 8.4654E-004$$

$$R = 0.9992$$

$$DL = 0.1544$$

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	34.57	0.0000	P	14.6
2	☐	1.000	0.984	490.14	0.0002	P	1.3
3	☐	50.000	55.945	23943.82	0.0123	P	10.6
4	☐	125.000	127.592	57819.26	0.0280	P	0.7
5	☐	250.000	259.013	114721.96	0.0569	P	0.6
6	☐	500.000	498.651	222536.59	0.1095	P	0.6
7	☐	1000.000	997.800	454642.52	0.2192	P	1.0
8	☐			196.92	0.0001	P	9.3

$$y = 2.1965E-004 * x + 1.7000E-005$$

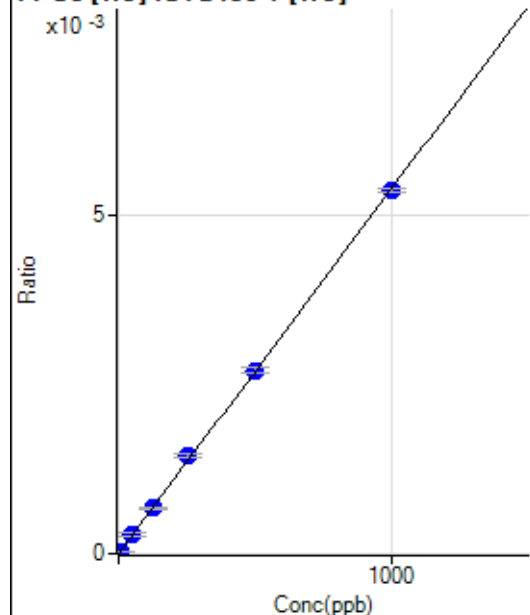
$$R = 0.9999$$

$$DL = 0.03384$$

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	0.00	0.0000	P	
2	☐	5.000	5.886	66.67	0.0000	P	12.6
3	☐	50.000	51.980	544.46	0.0003	P	15.5
4	☐	125.000	125.314	1391.20	0.0007	P	3.9
5	☐	250.000	268.340	2913.67	0.0014	P	5.4
6	☐	500.000	502.447	5496.69	0.0027	P	2.6
7	☐	1000.000	994.049	11104.39	0.0054	P	1.0
8	☐			0.00	0.0000	P	

$$y = 5.3854\text{E-}006 * x + 0.0000\text{E+}000$$

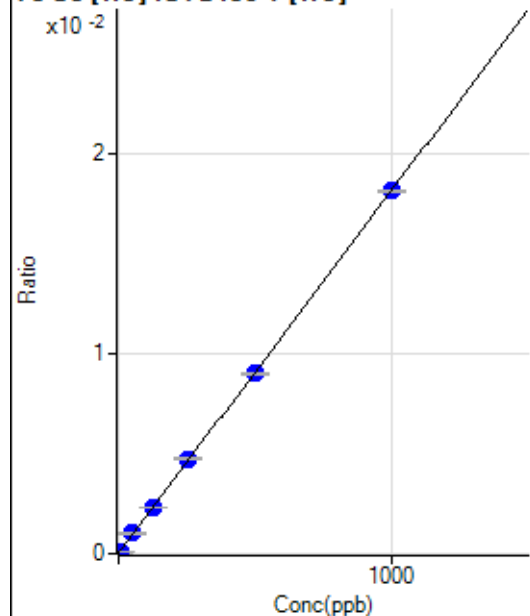
$$R = 0.9998$$

$$DL = 0$$

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	38.89	0.0000	P	18.8
2	☐	5.000	4.736	220.37	0.0001	P	13.2
3	☐	50.000	56.641	2035.35	0.0010	P	10.2
4	☐	125.000	127.084	4788.48	0.0023	P	2.2
5	☐	250.000	259.666	9524.81	0.0047	P	2.4
6	☐	500.000	495.373	18277.64	0.0090	P	1.2
7	☐	1000.000	999.306	37610.34	0.0181	P	0.3
8	☐			56.79	0.0000	P	19.1

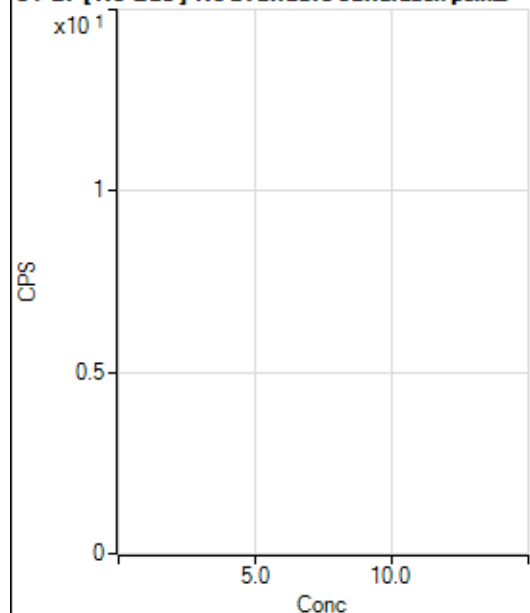
$$y = 1.8124\text{E-}005 * x + 1.9058\text{E-}005$$

$$R = 0.9999$$

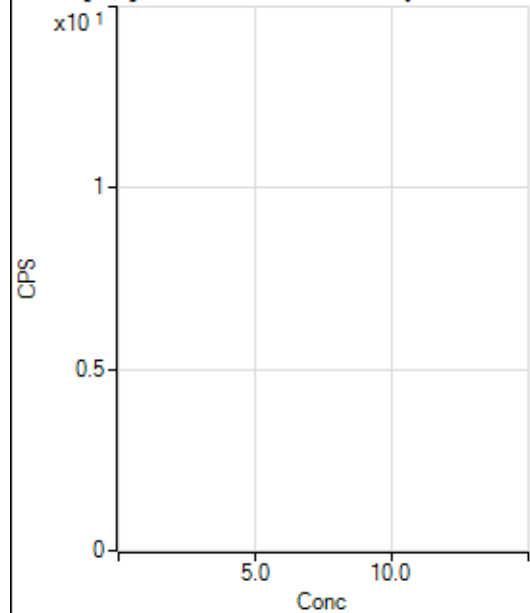
$$DL = 0.5924$$

Weight: <None>

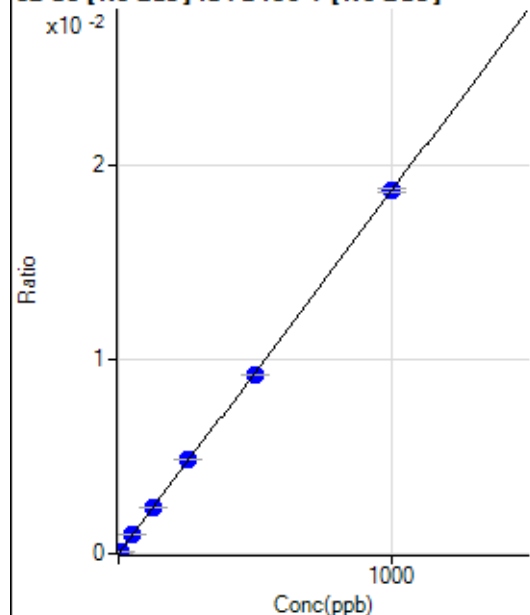
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41007.20		P	1.0
2	☐			42573.27		P	1.4
3	☐			41154.28		P	3.3
4	☐			40859.78		P	2.1
5	☐			39090.04		P	1.0
6	☐			38487.79		P	0.7
7	☐			38946.40		P	2.0
8	☐			36226.24		P	3.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.40		P	32.9
2	☐			76.75		P	7.5
3	☐			56.72		P	27.0
4	☐			46.71		P	24.7
5	☐			46.71		P	32.7
6	☐			40.04		P	25.0
7	☐			36.70		P	83.3
8	☐			76.75		P	37.7

82 Se [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-5.35	0.0000	P	-2031.
2	☐	5.000	4.876	1696.21	0.0001	P	8.2
3	☐	50.000	51.123	17509.48	0.0010	P	0.7
4	☐	125.000	127.540	43024.91	0.0024	P	0.8
5	☐	250.000	261.042	85667.14	0.0049	P	0.5
6	☐	500.000	493.751	166116.62	0.0092	P	0.7
7	☐	1000.000	999.991	333923.76	0.0187	P	0.9
8	☐			199.26	0.0000	P	33.5

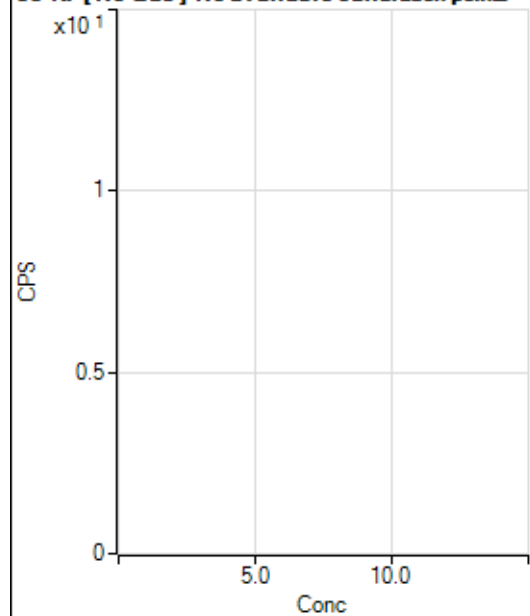
$$y = 1.8655E-005 * x - 2.1260E-007$$

$$R = 0.9999$$

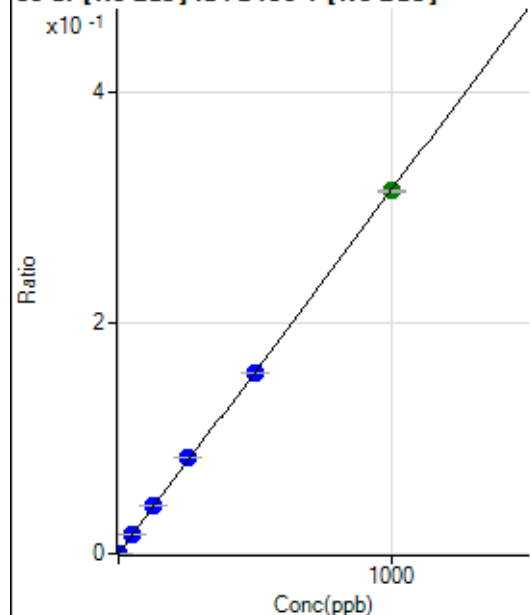
$$DL = 0.6946$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			411.13		P	17.0
2	☐			442.24		P	4.9
3	☐			433.35		P	2.3
4	☐			436.68		P	7.3
5	☐			435.57		P	4.2
6	☐			487.79		P	4.0
7	☐			472.24		P	9.1
8	☐			504.46		P	14.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	705.60	0.0000	P	0.8
2	☐	1.000	0.954	6301.66	0.0003	P	9.0
3	☐	50.000	52.850	306791.41	0.0167	P	0.6
4	☐	125.000	130.455	744797.99	0.0412	P	0.7
5	☐	250.000	262.580	1457758.67	0.0829	P	0.5
6	☐	500.000	497.231	2829252.39	0.1569	P	0.9
7	☐	1000.000	997.415	5632414.71	0.3147	A	0.6
8	☐			28236.70	0.0018	P	2.1

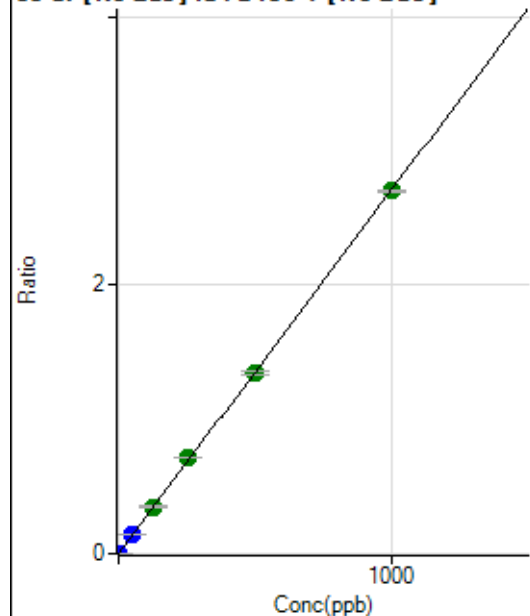
$$y = 3.1544\text{E-}004 * x + 3.6079\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.002614$$

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	347.24	0.0000	P	8.2
2	☐	1.000	0.948	48399.32	0.0026	P	2.8
3	☐	50.000	53.014	2638909.32	0.1437	P	0.5
4	☐	125.000	129.317	6338622.36	0.3505	A	0.5
5	☐	250.000	262.001	12493441.69	0.7101	A	0.2
6	☐	500.000	497.421	24313046.90	1.3482	A	1.6
7	☐	1000.000	997.599	48400048.65	2.7039	A	0.5
8	☐			244036.72	0.0155	P	1.1

$$y = 0.0027 * x + 1.7763\text{E-}005$$

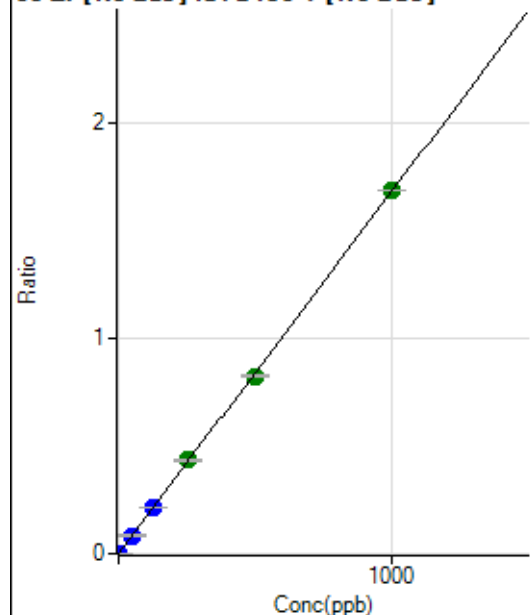
$$R = 0.9999$$

$$DL = 0.001616$$

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	1047.31	0.0001	P	7.5
2	☐	1.000	0.862	28086.67	0.0015	P	7.5
3	☐	50.000	50.420	1556770.90	0.0848	P	0.6
4	☐	125.000	127.384	3871647.61	0.2141	P	0.8
5	☐	250.000	258.019	7628333.33	0.4336	A	0.4
6	☐	500.000	490.240	14856526.20	0.8238	A	1.4
7	☐	1000.000	1002.556	30156357.62	1.6847	A	0.1
8	☐			12383.63	0.0008	P	11.2

$$y = 0.0017 * x + 5.3558E-005$$

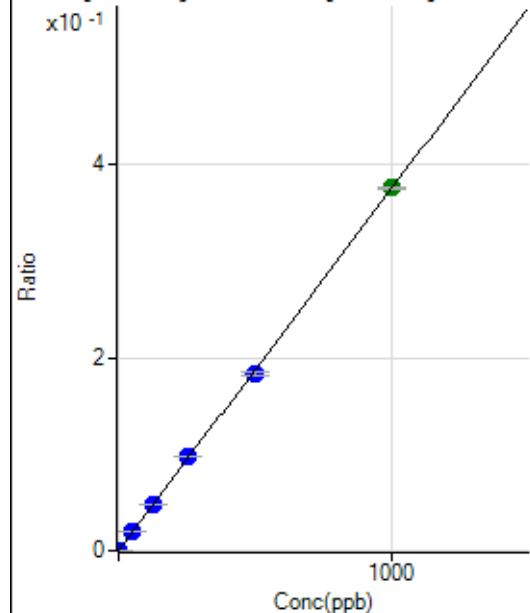
$$R = 0.9999$$

$$DL = 0.007182$$

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	172.23	0.0000	P	27.9
2	☐	1.000	0.842	6073.77	0.0003	P	6.1
3	☐	50.000	50.780	349954.41	0.0191	P	0.7
4	☐	125.000	129.232	876770.66	0.0485	P	0.9
5	☐	250.000	260.578	1719812.63	0.0978	P	0.1
6	☐	500.000	489.176	3309262.01	0.1835	P	1.4
7	☐	1000.000	1002.200	6729462.04	0.3759	A	0.6
8	☐			2650.36	0.0002	P	15.9

$$y = 3.7511E-004 * x + 8.7935E-006$$

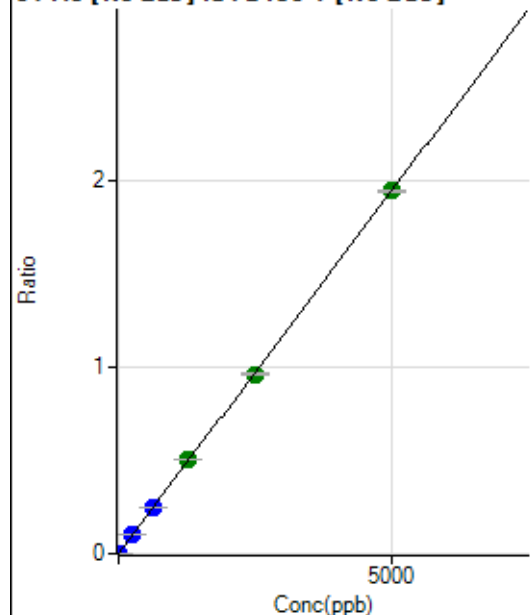
$$R = 0.9998$$

$$DL = 0.01961$$

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	338.91	0.0000	P	17.3
2	☐	5.000	4.640	34002.61	0.0018	P	6.5
3	☐	250.000	258.783	1844946.98	0.1005	P	0.5
4	☐	625.000	640.463	4495969.63	0.2486	P	1.3
5	☐	1250.000	1294.086	8837487.18	0.5023	A	1.0
6	☐	2500.000	2471.276	17299907.85	0.9593	A	1.4
7	☐	5000.000	5000.969	34748830.99	1.9413	A	0.3
8	☐			14761.00	0.0009	P	11.6

$$y = 3.8817E-004 * x + 1.7359E-005$$

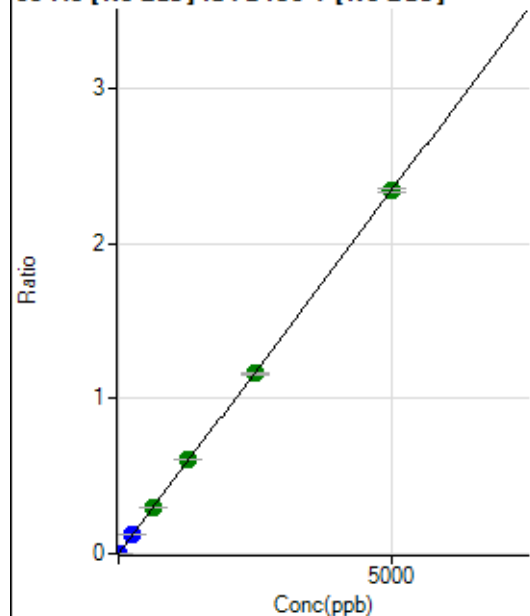
$$R = 0.9999$$

$$DL = 0.02326$$

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	55.56	0.0000	P	36.1
2	☐	5.000	4.709	41374.77	0.0022	P	2.1
3	☐	250.000	260.599	2243077.81	0.1222	P	0.7
4	☐	625.000	637.823	5406203.03	0.2990	A	1.2
5	☐	1250.000	1302.032	10736424.29	0.6103	A	0.5
6	☐	2500.000	2477.237	20939569.04	1.1611	A	1.4
7	☐	5000.000	4996.241	41918933.23	2.3419	A	1.0
8	☐			16966.47	0.0011	P	14.3

$$y = 4.6872E-004 * x + 2.8285E-006$$

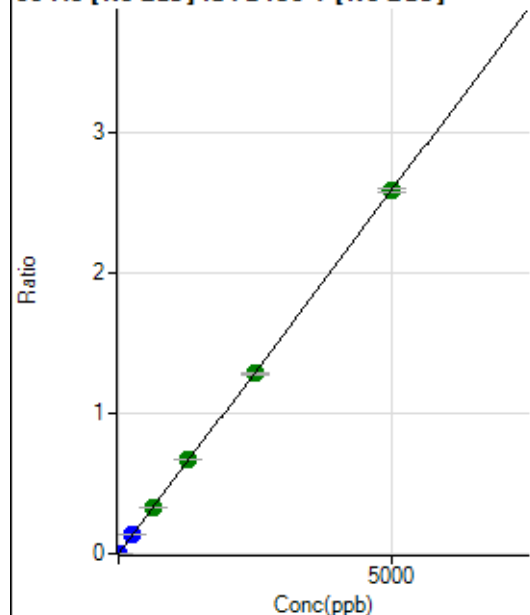
$$R = 0.9999$$

$$DL = 0.00653$$

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	175.01	0.0000	P	19.8
2	☐	5.000	4.844	47036.76	0.0025	P	2.7
3	☐	250.000	259.552	2463865.66	0.1342	P	0.8
4	☐	625.000	641.376	5995677.08	0.3315	A	0.9
5	☐	1250.000	1297.877	11802793.84	0.6709	A	0.7
6	☐	2500.000	2481.485	23132751.21	1.2827	A	1.1
7	☐	5000.000	4994.764	46215280.55	2.5819	A	1.2
8	☐			34281.20	0.0022	P	8.4

$$y = 5.1692\text{E-}004 * x + 8.9365\text{E-}006$$

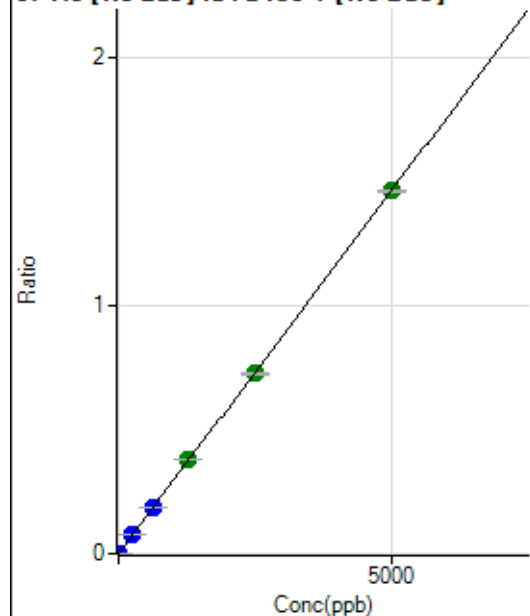
$$R = 0.9999$$

$$DL = 0.01029$$

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	47.22	0.0000	P	9.3
2	☐	5.000	4.732	25994.01	0.0014	P	4.5
3	☐	250.000	259.096	1394690.23	0.0760	P	0.3
4	☐	625.000	638.354	3383843.04	0.1871	P	0.2
5	☐	1250.000	1295.549	6680654.49	0.3798	A	0.8
6	☐	2500.000	2477.797	13098357.76	0.7263	A	1.1
7	☐	5000.000	4997.591	26222491.21	1.4649	A	0.3
8	☐			10615.54	0.0007	P	13.0

$$y = 2.9313\text{E-}004 * x + 2.4131\text{E-}006$$

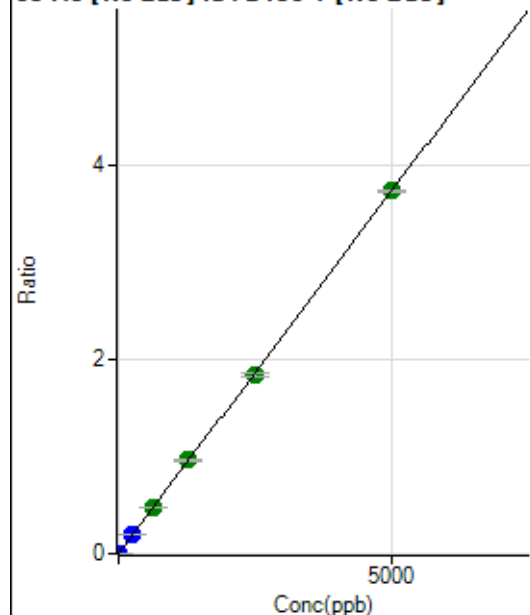
$$R = 0.9999$$

$$DL = 0.002285$$

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	94.45	0.0000	P	24.6
2	☐	5.000	4.778	66921.34	0.0036	P	3.8
3	☐	250.000	257.387	3533196.65	0.1924	P	0.3
4	☐	625.000	634.556	8577680.84	0.4743	A	0.9
5	☐	1250.000	1289.892	16963306.11	0.9642	A	1.3
6	☐	2500.000	2469.796	33293523.31	1.8462	A	1.6
7	☐	5000.000	5003.565	66950593.86	3.7403	A	0.7
8	☐			26423.12	0.0017	P	15.4

$$y = 7.4752E-004 * x + 4.8205E-006$$

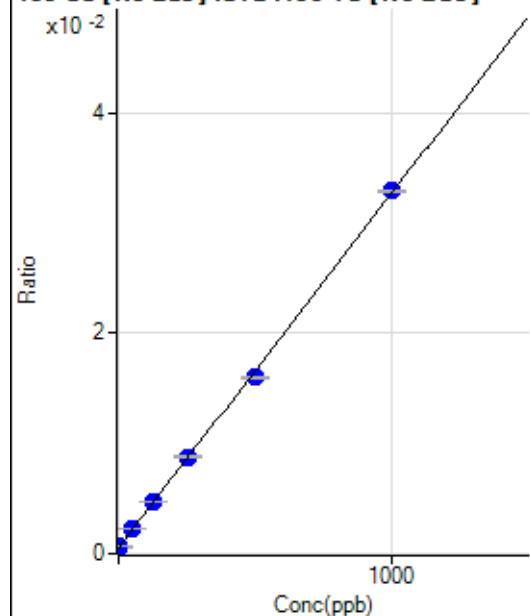
$$R = 0.9999$$

$$DL = 0.004757$$

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	10067.88	0.0006	P	3.3
2	☐	1.000	2.612	11143.75	0.0006	P	1.6
3	☐	50.000	52.750	38648.12	0.0022	P	0.7
4	☐	125.000	128.486	79445.29	0.0047	P	0.9
5	☐	250.000	256.900	147953.63	0.0088	P	1.1
6	☐	500.000	480.681	274679.42	0.0160	P	0.9
7	☐	1000.000	1007.360	550853.90	0.0329	P	0.4
8	☐			9197.80	0.0006	P	0.5

$$y = 3.2117E-005 * x + 5.5128E-004$$

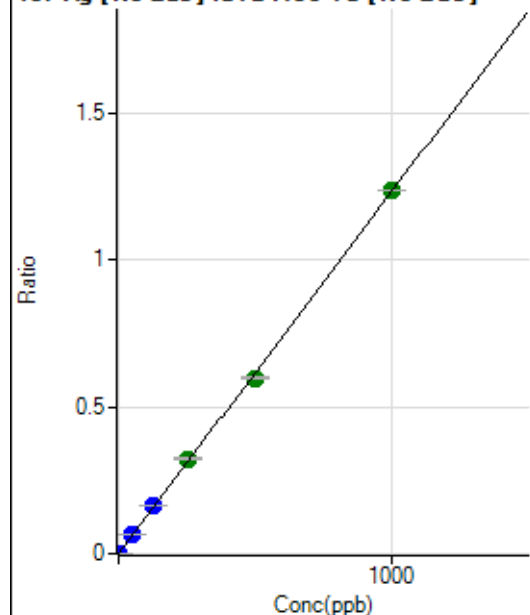
$$R = 0.9997$$

$$DL = 1.696$$

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	177.79	0.0000	P	28.0
2	☐	1.000	0.995	21636.79	0.0012	P	3.2
3	☐	50.000	54.449	1152703.40	0.0670	P	1.2
4	☐	125.000	131.759	2752342.51	0.1621	P	1.0
5	☐	250.000	262.414	5424621.52	0.3228	A	0.6
6	☐	500.000	485.498	10258093.20	0.5971	A	1.0
7	☐	1000.000	1003.080	20653483.10	1.2337	A	0.1
8	☐			6340.65	0.0004	P	20.0

$$y = 0.0012 * x + 9.7288E-006$$

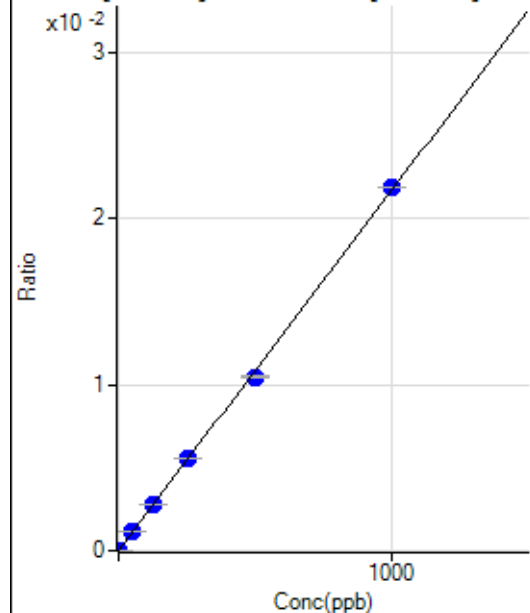
$$R = 0.9997$$

$$DL = 0.006637$$

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	44.45	0.0000	P	18.0
2	☐	1.000	0.881	377.79	0.0000	P	17.7
3	☐	50.000	50.998	19077.01	0.0011	P	0.8
4	☐	125.000	127.605	47040.58	0.0028	P	1.5
5	☐	250.000	256.097	93387.04	0.0056	P	0.4
6	☐	500.000	481.955	179598.60	0.0105	P	1.2
7	☐	1000.000	1007.123	365690.97	0.0218	P	0.2
8	☐			355.57	0.0000	P	4.1

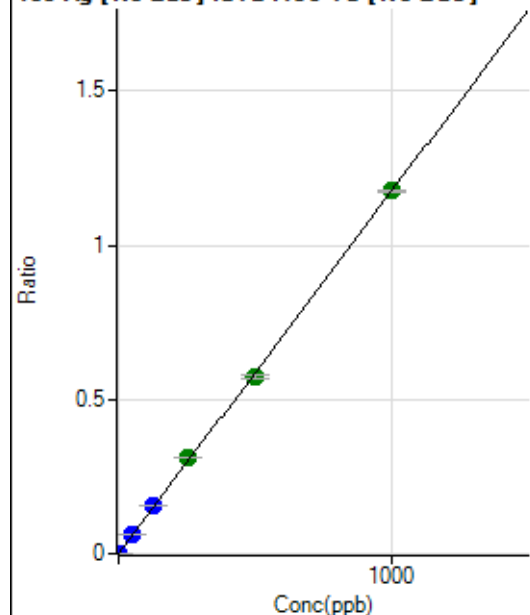
$$y = 2.1687E-005 * x + 2.4303E-006$$

$$R = 0.9997$$

$$DL = 0.06061$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.00	0.0000	P	22.9
2	☐	1.000	0.965	19948.15	0.0011	P	3.4
3	☐	50.000	55.089	1114228.77	0.0647	P	0.4
4	☐	125.000	132.598	2646378.45	0.1558	P	1.1
5	☐	250.000	265.059	5235083.80	0.3115	A	1.0
6	☐	500.000	487.600	9842930.60	0.5730	A	1.5
7	☐	1000.000	1001.231	19696644.54	1.1766	A	0.7
8	☐			6229.40	0.0004	P	12.9

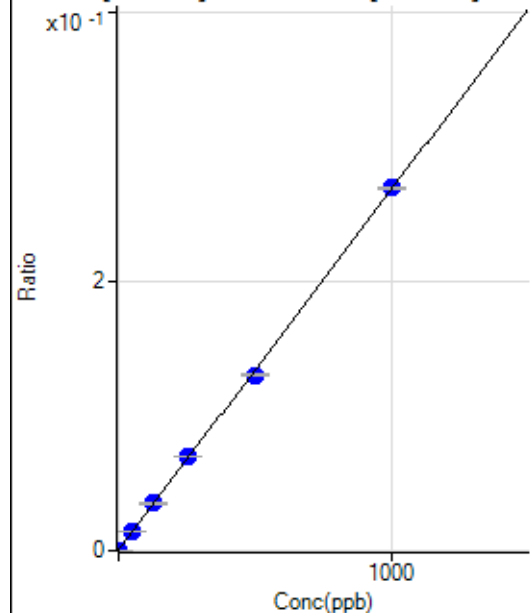
$$y = 0.0012 * x + 4.1114E-006$$

$$R = 0.9997$$

$$DL = 0.0024$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7023.35	0.0004	P	3.2
2	☐	1.000	1.060	11734.10	0.0007	P	0.5
3	☐	50.000	53.094	251652.76	0.0146	P	0.9
4	☐	125.000	129.559	596559.15	0.0351	P	0.7
5	☐	250.000	258.817	1172952.04	0.0698	P	0.6
6	☐	500.000	485.371	2242485.74	0.1305	P	1.1
7	☐	1000.000	1004.386	4515186.46	0.2697	P	0.6
8	☐			8039.72	0.0005	P	2.8

$$y = 2.6815E-004 * x + 3.8458E-004$$

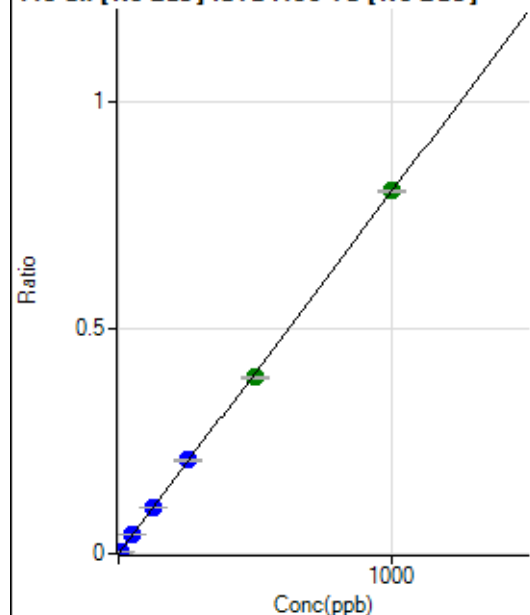
$$R = 0.9998$$

$$DL = 0.1366$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1286.23	0.0001	P	12.5
2	☐	5.000	4.715	67506.90	0.0038	P	1.3
3	☐	50.000	52.594	726563.86	0.0422	P	0.9
4	☐	125.000	129.884	1768840.49	0.1042	P	0.3
5	☐	250.000	258.875	3487838.23	0.2075	P	0.9
6	☐	500.000	488.213	6722243.73	0.3913	A	0.8
7	☐	1000.000	1002.936	13455714.02	0.8038	A	0.7
8	☐			6635.20	0.0004	P	7.6

$$y = 8.0135E-004 * x + 7.0470E-005$$

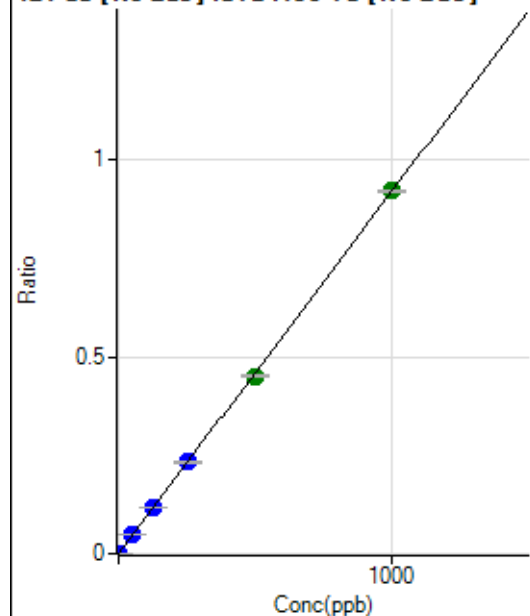
$$R = 0.9998$$

$$DL = 0.03291$$

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	52.78	0.0000	P	25.4
2	☐	2.000	1.815	29286.92	0.0017	P	3.7
3	☐	50.000	51.610	816101.16	0.0474	P	0.1
4	☐	125.000	127.336	1986798.81	0.1170	P	0.2
5	☐	250.000	253.645	3916430.08	0.2330	P	1.0
6	☐	500.000	491.432	7756141.84	0.4515	A	0.9
7	☐	1000.000	1003.001	15426051.04	0.9215	A	0.2
8	☐			15286.72	0.0010	P	4.6

$$y = 9.1871E-004 * x + 2.8974E-006$$

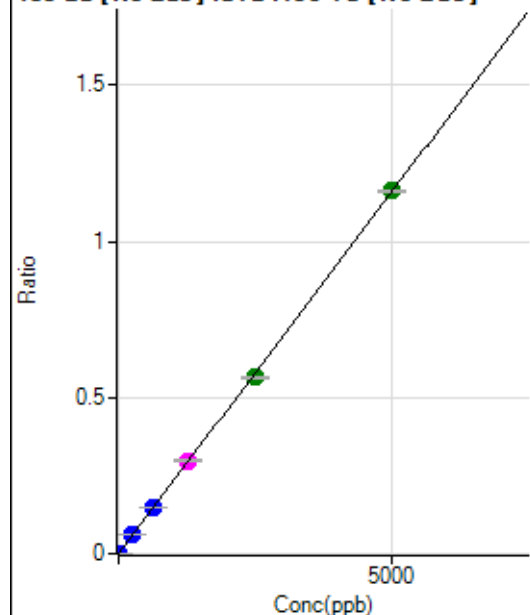
$$R = 0.9999$$

$$DL = 0.002404$$

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	55.56	0.0000	P	60.5
2	☐	10.000	9.169	37270.38	0.0021	P	1.4
3	☐	250.000	259.120	1032202.39	0.0600	P	0.9
4	☐	625.000	640.868	2519086.38	0.1483	P	0.4
5	☐	1250.000	1287.518	5008239.87	0.2980	M	1.5
6	☐	2500.000	2440.288	9702262.20	0.5648	A	1.3
7	☐	5000.000	5018.039	19442667.80	1.1614	A	0.3
8	☐			32664.31	0.0022	P	4.7

$$y = 2.3145E-004 * x + 3.0399E-006$$

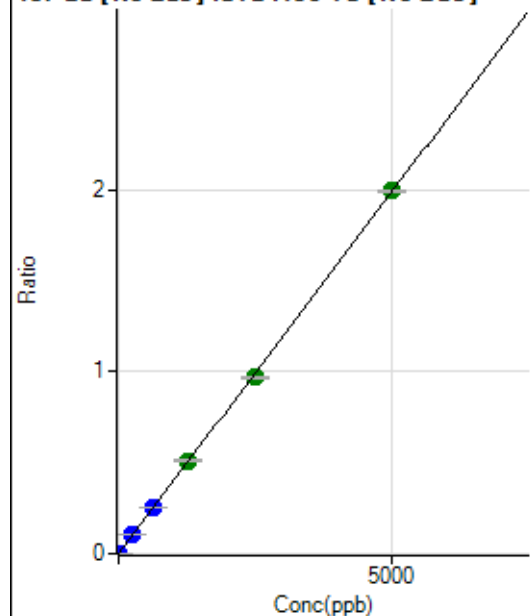
$$R = 0.9999$$

$$DL = 0.02385$$

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	83.34	0.0000	P	42.1
2	☐	10.000	9.484	66194.73	0.0038	P	1.7
3	☐	250.000	261.398	1788190.77	0.1039	P	0.8
4	☐	625.000	639.891	4319445.49	0.2543	P	0.3
5	☐	1250.000	1289.673	8615433.70	0.5126	A	0.5
6	☐	2500.000	2438.519	16650251.76	0.9692	A	0.9
7	☐	5000.000	5018.392	33391882.34	1.9946	A	0.5
8	☐			57065.26	0.0038	P	4.1

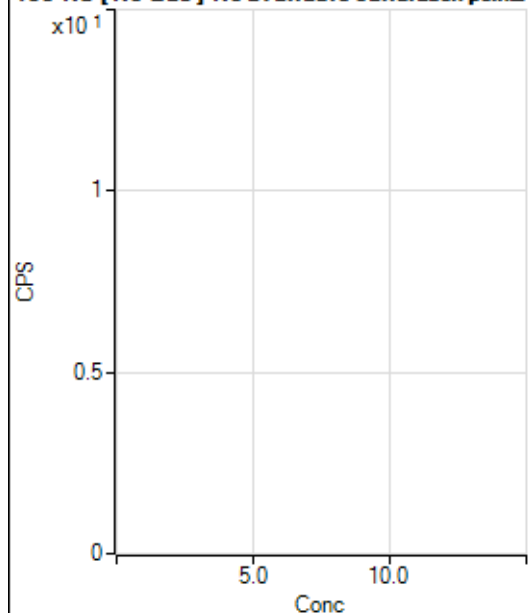
$$y = 3.9746E-004 * x + 4.5470E-006$$

$$R = 0.9999$$

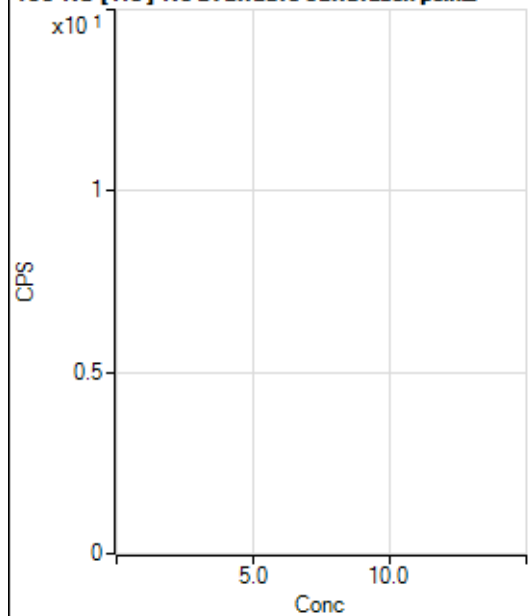
$$DL = 0.01444$$

Weight: <None>

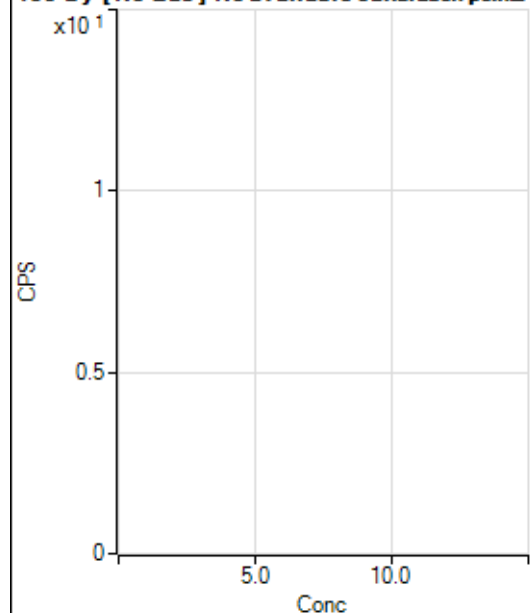
Min Conc: 0

150 Nd [No Gas] No available calibration points

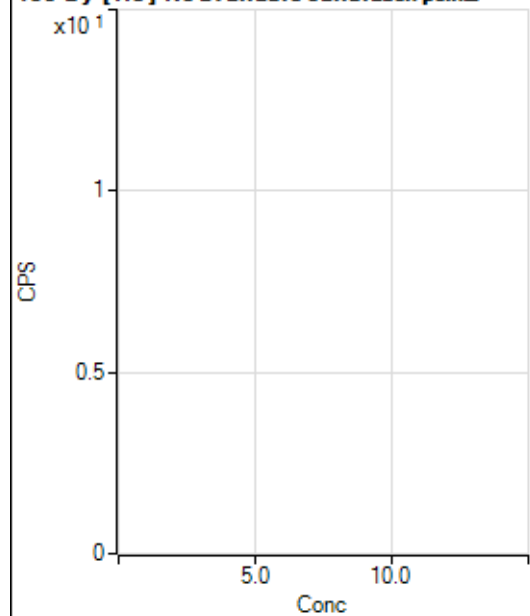
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.5
2	☐			4.45		P	86.6
3	☐			113.34		P	27.0
4	☐			293.35		P	11.4
5	☐			628.93		P	8.0
6	☐			1086.75		P	11.2
7	☐			2362.51		P	6.4
8	☐			55.56		P	30.2

150 Nd [He] No available calibration points

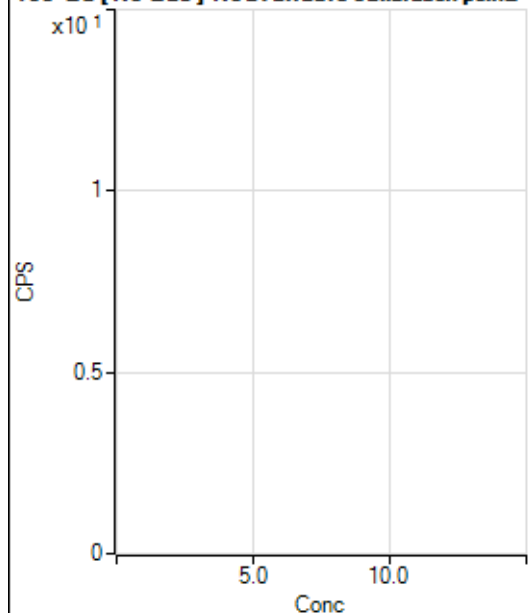
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			5.56		P	34.7
4	☐			15.56		P	49.5
5	☐			45.56		P	4.2
6	☐			67.78		P	17.3
7	☐			155.56		P	19.4
8	☐			16.67		P	20.0

156 Dy [No Gas] No available calibration points

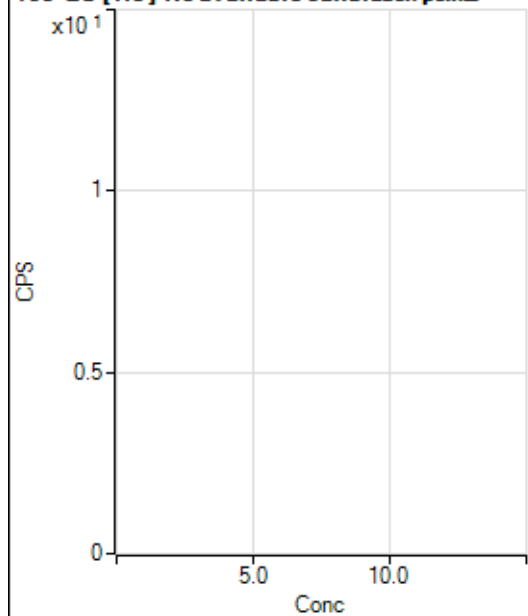
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	56.8
2	☐			30.55		P	68.6
3	☐			83.34		P	36.1
4	☐			105.56		P	4.6
5	☐			219.46		P	13.3
6	☐			352.80		P	18.9
7	☐			711.16		P	9.8
8	☐			1072.31		P	6.7

156 Dy [He] No available calibration points

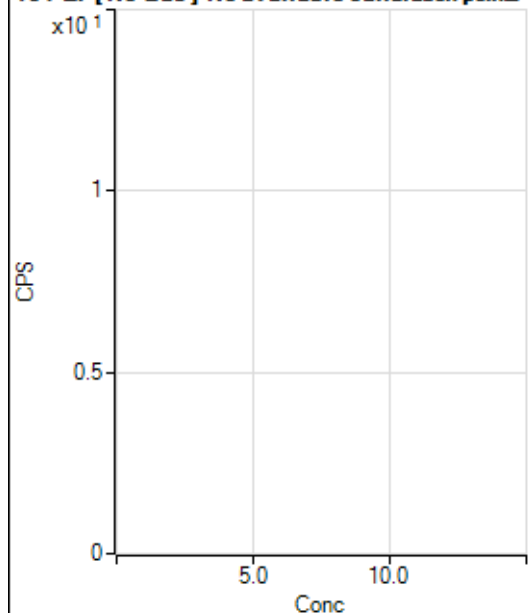
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	13.4
2	☐			11.11		P	45.8
3	☐			34.45		P	31.1
4	☐			61.11		P	16.7
5	☐			105.56		P	7.3
6	☐			180.00		P	9.8
7	☐			353.34		P	5.0
8	☐			474.46		P	7.2

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

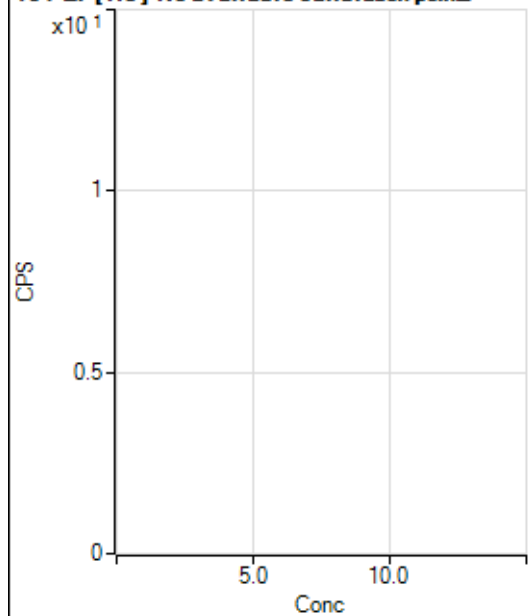
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			152.79		P	13.7
2	☐			125.00		P	11.5
3	☐			152.79		P	19.2
4	☐			152.79		P	30.0
5	☐			186.12		P	21.2
6	☐			291.68		P	44.9
7	☐			355.58		P	15.6
8	☐			1239.00		P	4.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			195.56		P	6.9
2	☐			220.01		P	6.1
3	☐			216.67		P	9.4
4	☐			226.67		P	13.5
5	☐			256.67		P	1.3
6	☐			325.57		P	0.6
7	☐			377.79		P	2.5
8	☐			765.59		P	11.6

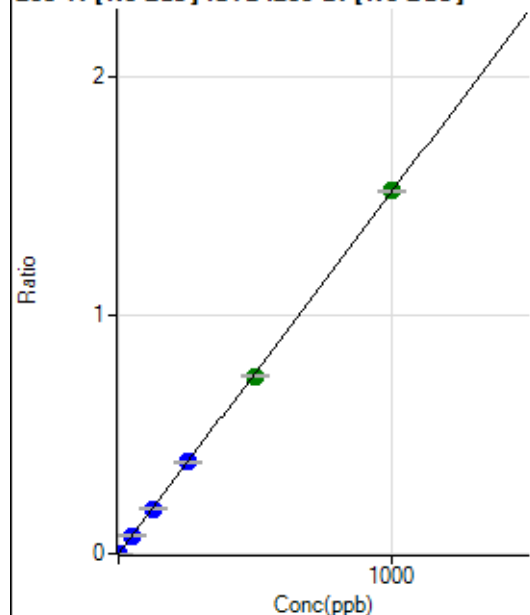
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.90		P	37.9
2	☐			69.45		P	36.7
3	☐			102.78		P	16.9
4	☐			86.11		P	22.4
5	☐			113.89		P	4.2
6	☐			136.12		P	9.4
7	☐			155.56		P	17.2
8	☐			194.46		P	10.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	11.5
2	☐			35.55		P	30.1
3	☐			37.78		P	51.7
4	☐			48.89		P	17.2
5	☐			42.22		P	16.4
6	☐			41.11		P	12.4
7	☐			52.22		P	22.4
8	☐			78.89		P	21.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	161.12	0.0000	P	0.7
2	☐	1.000	0.908	13293.35	0.0014	P	2.8
3	☐	50.000	50.377	715290.47	0.0765	P	1.6
4	☐	125.000	124.767	1768266.88	0.1893	P	1.6
5	☐	250.000	253.459	3467951.73	0.3846	P	1.2
6	☐	500.000	491.640	6802348.50	0.7460	A	0.7
7	☐	1000.000	1003.326	13260831.29	1.5223	A	0.8
8	☐			2533.70	0.0004	P	29.9

$$y = 0.0015 * x + 1.5669E-005$$

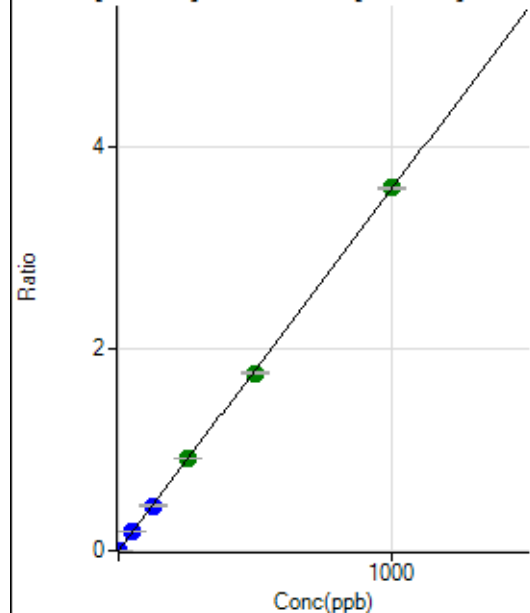
$$R = 0.9999$$

$$DL = 0.0002147$$

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	347.24	0.0000	P	5.3
2	☐	1.000	0.909	31288.06	0.0033	P	0.3
3	☐	50.000	50.957	1703637.39	0.1821	P	1.0
4	☐	125.000	124.621	4158884.03	0.4453	P	1.0
5	☐	250.000	254.860	8210817.02	0.9106	A	1.0
6	☐	500.000	490.557	15981562.68	1.7526	A	0.7
7	☐	1000.000	1003.506	31229688.20	3.5852	A	0.7
8	☐			6101.74	0.0009	P	27.2

$$y = 0.0036 * x + 3.3750E-005$$

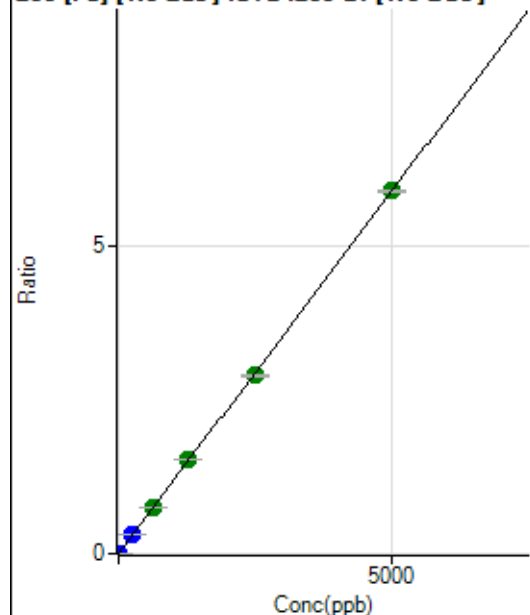
$$R = 0.9999$$

$$DL = 0.001491$$

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	285.20	0.0000	P	19.9
2	☐	1.000	0.967	11114.20	0.0012	P	3.0
3	☐	250.000	258.268	2842799.77	0.3038	P	0.7
4	☐	625.000	633.149	6955953.45	0.7448	A	2.5
5	☐	1250.000	1296.333	13750818.71	1.5249	A	0.7
6	☐	2500.000	2457.184	26357329.76	2.8905	A	0.8
7	☐	5000.000	5008.393	51319813.65	5.8915	A	0.6
8	☐			14766.17	0.0021	P	20.3

$$y = 0.0012 * x + 2.7772E-005$$

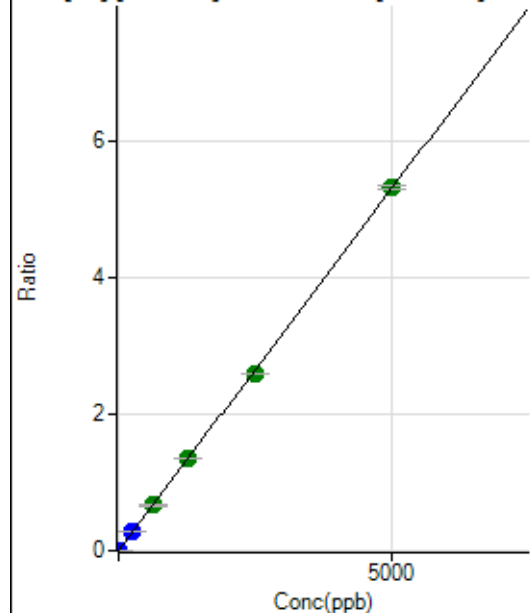
$$R = 0.9999$$

$$DL = 0.01413$$

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	283.35	0.0000	P	8.7
2	☐	1.000	0.919	9561.12	0.0010	P	4.3
3	☐	250.000	258.427	2567316.96	0.2744	P	0.3
4	☐	625.000	629.140	6238302.63	0.6679	A	2.0
5	☐	1250.000	1287.554	12326275.97	1.3669	A	0.1
6	☐	2500.000	2448.205	23700652.62	2.5991	A	0.6
7	☐	5000.000	5015.570	46381980.67	5.3247	A	1.0
8	☐			12953.10	0.0018	P	20.5

$$y = 0.0011 * x + 2.7588E-005$$

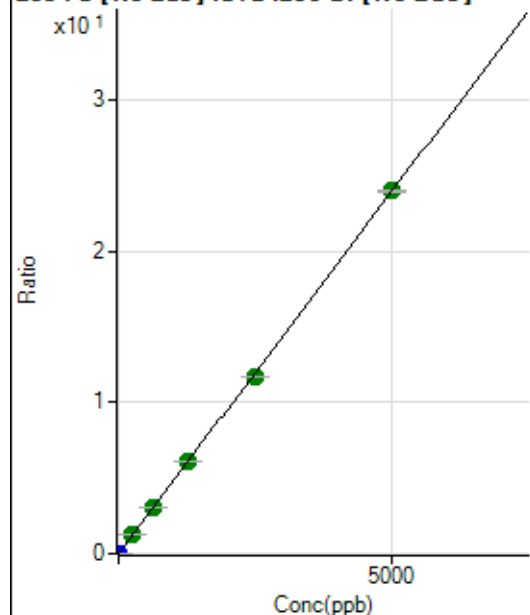
$$R = 0.9999$$

$$DL = 0.006788$$

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	1268.58	0.0001	P	7.6
2	☐	1.000	0.940	44092.69	0.0046	P	2.3
3	☐	250.000	255.972	11468142.62	1.2257	A	0.2
4	☐	625.000	631.336	28233219.61	3.0229	A	1.7
5	☐	1250.000	1287.141	55572535.15	6.1627	A	0.2
6	☐	2500.000	2449.220	106931989.6	11.7266	A	0.5
7	☐	5000.000	5015.014	209155887.5	24.0112	A	0.6
8	☐			58985.40	0.0084	P	20.0

$$y = 0.0048 * x + 1.2353E-004$$

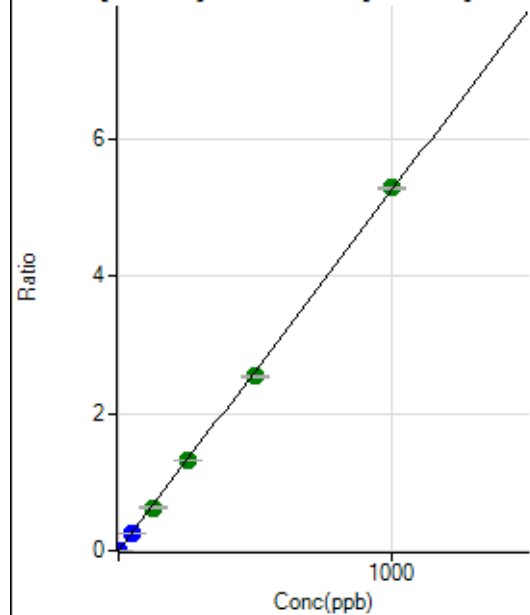
$$R = 0.9999$$

$$DL = 0.005921$$

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	777.83	0.0001	P	12.7
2	☐	1.000	0.006	1011.18	0.0001	P	0.8
3	☐	50.000	47.048	2305643.38	0.2464	P	0.3
4	☐	125.000	120.198	5879627.56	0.6294	A	0.8
5	☐	250.000	251.528	11876920.29	1.3171	A	0.6
6	☐	500.000	484.195	23118701.91	2.5353	A	0.8
7	☐	1000.000	1008.269	45987407.51	5.2794	A	0.5
8	☐			15852.77	0.0023	P	14.4

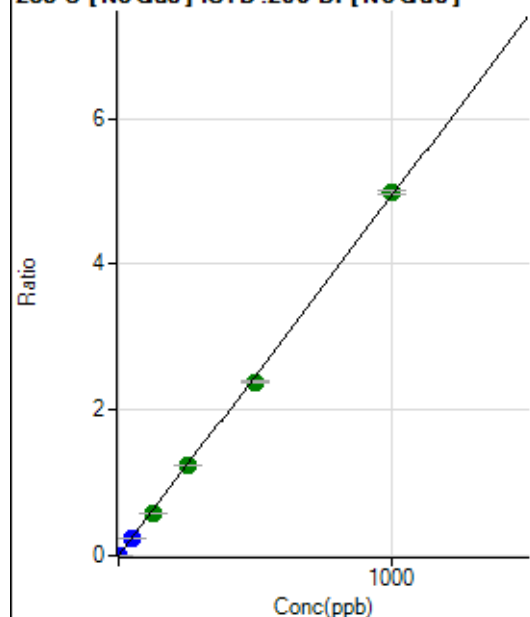
$$y = 0.0052 * x + 7.5788E-005$$

$$R = 0.9998$$

$$DL = 0.005521$$

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	22.22	0.0000	P	78.9
2	☐	1.000	0.844	39706.77	0.0042	P	3.4
3	☐	50.000	46.477	2146257.84	0.2294	P	0.9
4	☐	125.000	119.801	5522871.39	0.5913	A	0.4
5	☐	250.000	252.966	11257913.19	1.2485	A	0.2
6	☐	500.000	482.833	21729276.35	2.3829	A	0.6
7	☐	1000.000	1008.668	43361986.04	4.9781	A	1.2
8	☐			8942.60	0.0013	P	28.5

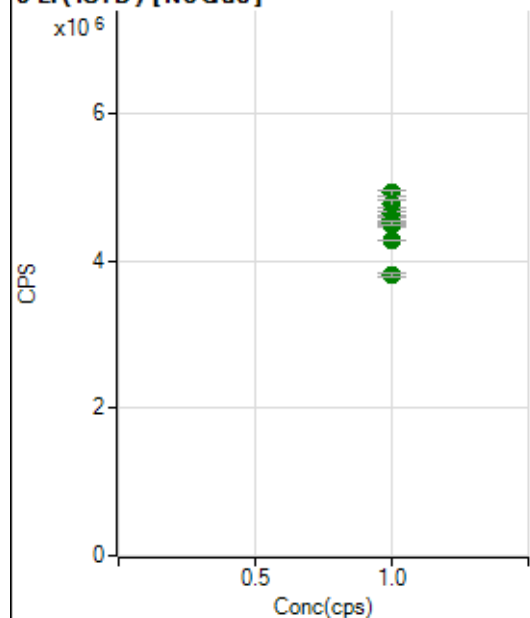
$$y = 0.0049 * x + 2.1783E-006$$

$$R = 0.9998$$

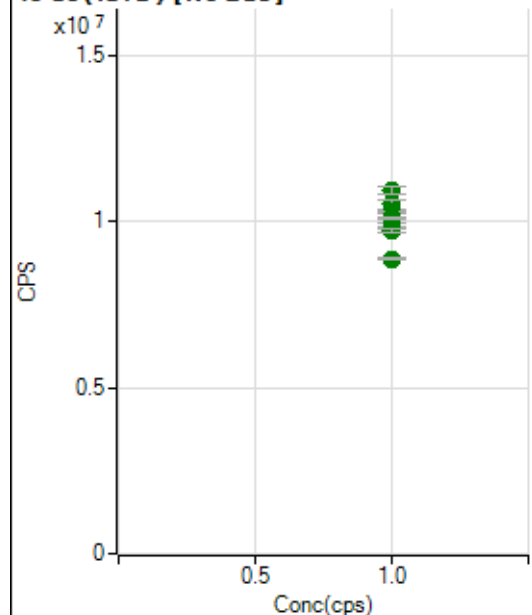
$$DL = 0.001044$$

Weight: <None>

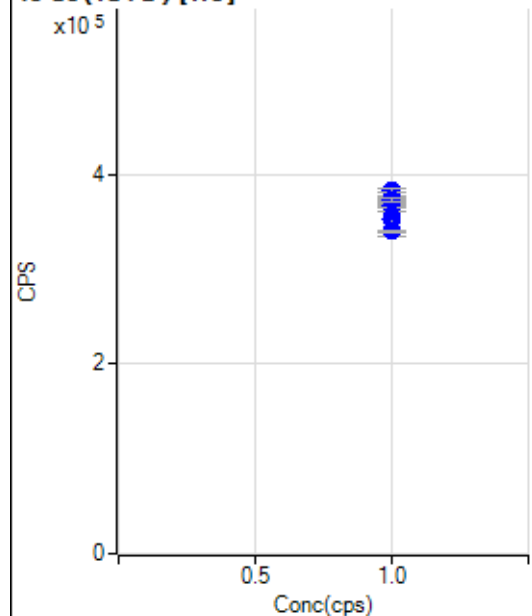
Min Conc: 0

6 Li (ISTD) [No Gas]

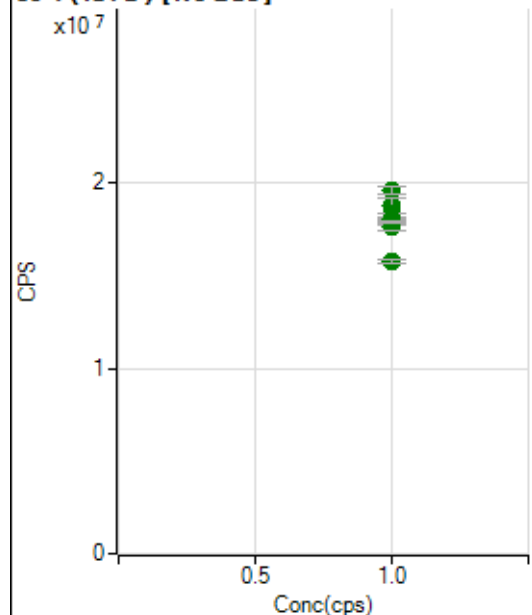
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4930228.57		A	1.8
2	☐	1.000		4771724.48		A	2.2
3	☐	1.000		4650777.19		A	0.9
4	☐	1.000		4572064.90		A	0.9
5	☐	1.000		4499178.79		A	1.4
6	☐	1.000		4525668.96		A	1.4
7	☐	1.000		4280351.33		A	0.3
8	☐	1.000		3815254.91		A	0.9

45 Sc (ISTD) [No Gas]

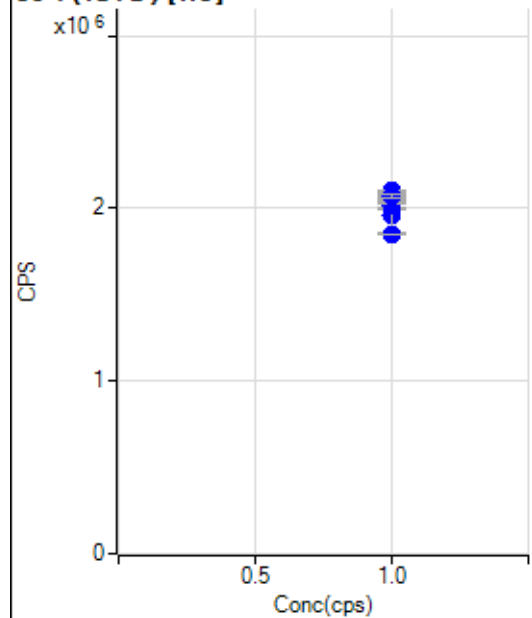
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10925239.42		A	2.0
2	☐	1.000		10526904.22		A	2.7
3	☐	1.000		10284636.72		A	0.8
4	☐	1.000		9957686.59		A	0.2
5	☐	1.000		9834756.45		A	0.6
6	☐	1.000		10105313.25		A	0.8
7	☐	1.000		9733978.19		A	1.2
8	☐	1.000		8868768.48		A	0.8

45 Sc (ISTD) [He]

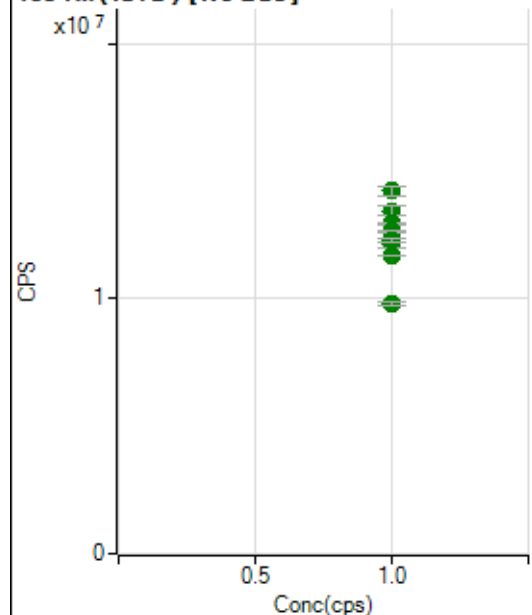
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		368883.59		P	4.6
2	☐	1.000		382599.54		P	0.9
3	☐	1.000		352175.43		P	9.9
4	☐	1.000		370001.41		P	1.3
5	☐	1.000		360642.89		P	0.2
6	☐	1.000		367051.81		P	0.7
7	☐	1.000		373559.77		P	1.0
8	☐	1.000		340294.47		P	0.5

89 Y (ISTD) [No Gas]

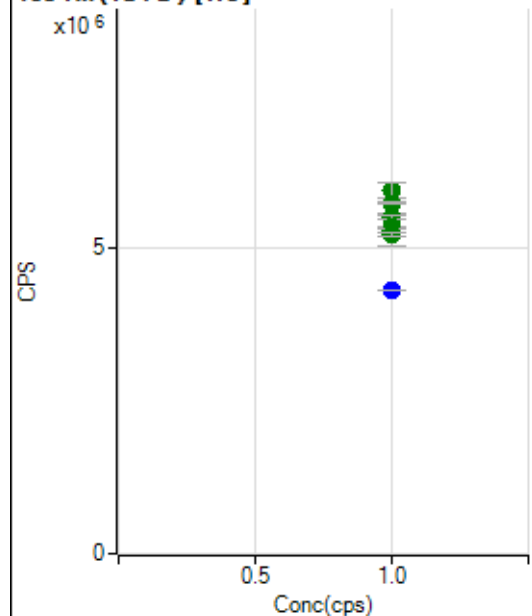
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19559405.40		A	2.1
2	☐	1.000		18731530.00		A	4.2
3	☐	1.000		18363273.48		A	0.3
4	☐	1.000		18083905.42		A	0.8
5	☐	1.000		17593083.76		A	1.6
6	☐	1.000		18035856.54		A	1.3
7	☐	1.000		17900205.98		A	0.2
8	☐	1.000		15740379.76		A	1.3

89 Y (ISTD) [He]

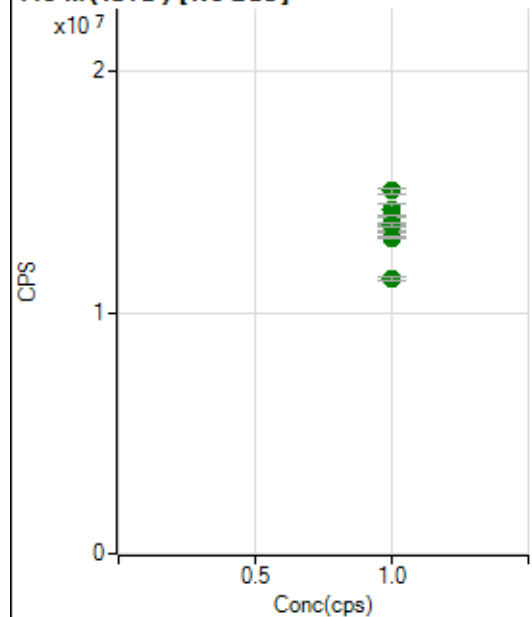
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2037502.69		P	4.2
2	☐	1.000		2101875.82		P	0.6
3	☐	1.000		1959626.62		P	9.9
4	☐	1.000		2061941.22		P	1.0
5	☐	1.000		2015982.04		P	0.9
6	☐	1.000		2031529.26		P	0.5
7	☐	1.000		2074433.37		P	1.0
8	☐	1.000		1850108.39		P	0.3

103 Rh (ISTD) [No Gas]

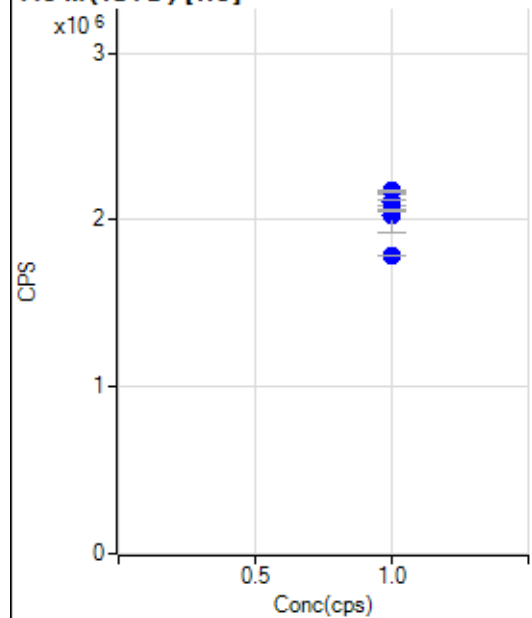
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		14229794.23		A	2.4
2	☐	1.000		13443422.02		A	2.7
3	☐	1.000		12946032.44		A	0.5
4	☐	1.000		12653253.84		A	0.5
5	☐	1.000		12132076.35		A	1.7
6	☐	1.000		12269546.49		A	1.1
7	☐	1.000		11719943.44		A	0.1
8	☐	1.000		9831685.34		A	1.5

103 Rh (ISTD) [He]

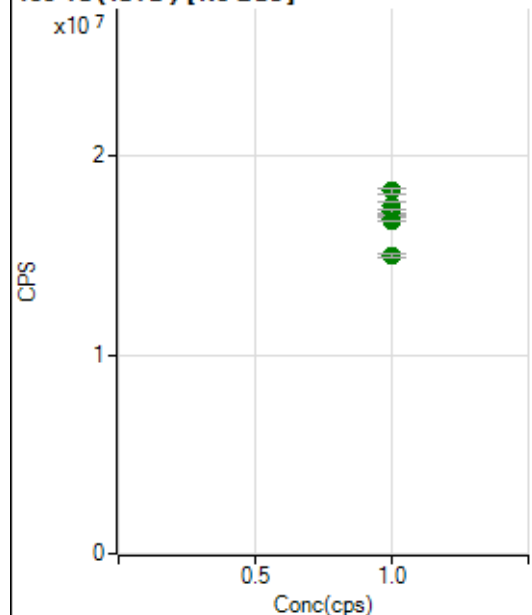
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		5937051.58		A	4.3
2	☐	1.000		5739097.07		A	0.5
3	☐	1.000		5289461.38		A	10.0
4	☐	1.000		5515307.07		A	0.9
5	☐	1.000		5342258.11		A	0.6
6	☐	1.000		5284178.22		A	1.1
7	☐	1.000		5229918.78		A	1.1
8	☐	1.000		4300435.80		P	0.2

115 In (ISTD) [No Gas]

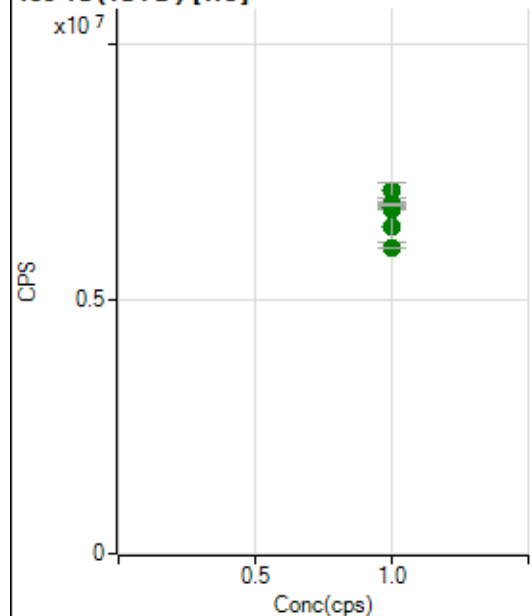
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15046143.95		A	1.6
2	☐	1.000		14278002.56		A	3.1
3	☐	1.000		14002777.58		A	0.9
4	☐	1.000		13609941.73		A	0.8
5	☐	1.000		13348898.00		A	1.0
6	☐	1.000		13612307.48		A	1.1
7	☐	1.000		13108749.23		A	0.7
8	☐	1.000		11393660.40		A	1.0

115 In (ISTD) [He]

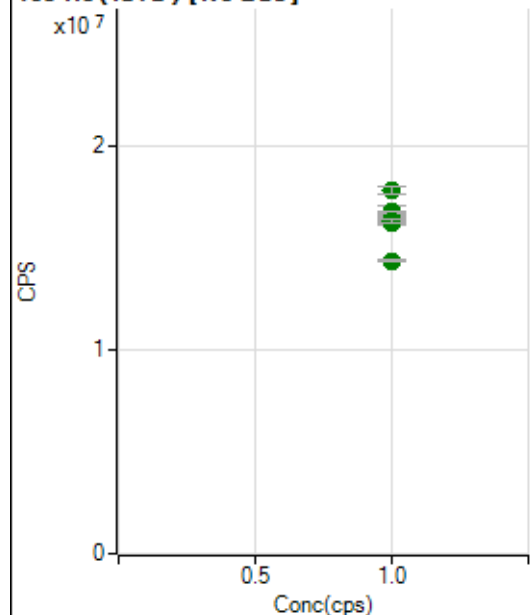
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2111891.22		P	4.5
2	☐	1.000		2174316.03		P	0.6
3	☐	1.000		2024716.82		P	9.9
4	☐	1.000		2104155.68		P	1.3
5	☐	1.000		2059772.73		P	0.6
6	☐	1.000		2058299.65		P	0.7
7	☐	1.000		2055189.04		P	0.9
8	☐	1.000		1788629.54		P	0.1

159 Tb (ISTD) [No Gas]

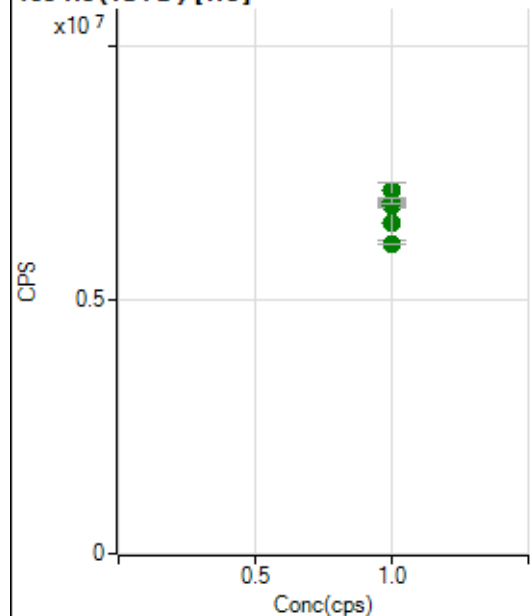
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18257117.92		A	1.4
2	☐	1.000		17541466.40		A	2.1
3	☐	1.000		17211173.22		A	0.8
4	☐	1.000		16983085.02		A	0.2
5	☐	1.000		16807396.56		A	1.2
6	☐	1.000		17180343.08		A	1.4
7	☐	1.000		16740736.14		A	0.5
8	☐	1.000		14974532.42		A	1.4

159 Tb (ISTD) [He]

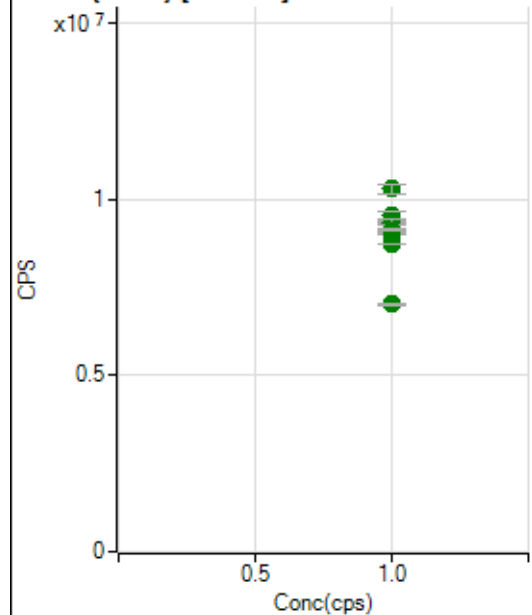
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7128899.96		A	4.3
2	☐	1.000		6869064.83		A	0.6
3	☐	1.000		6438467.54		A	9.8
4	☐	1.000		6839916.08		A	1.7
5	☐	1.000		6777357.95		A	0.6
6	☐	1.000		6807134.06		A	0.7
7	☐	1.000		6853028.37		A	0.9
8	☐	1.000		6014367.48		A	0.3

165 Ho (ISTD) [No Gas]

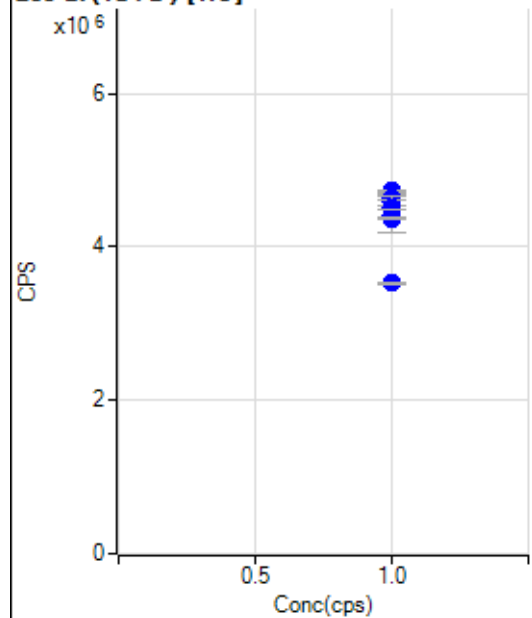
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17778626.40		A	2.0
2	☐	1.000		16817577.53		A	2.7
3	☐	1.000		16462195.03		A	0.6
4	☐	1.000		16414412.81		A	1.3
5	☐	1.000		16217192.26		A	1.6
6	☐	1.000		16750090.17		A	0.3
7	☐	1.000		16291991.70		A	1.4
8	☐	1.000		14363576.59		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7139945.66		A	4.2
2	☐	1.000		6942429.69		A	0.2
3	☐	1.000		6513052.40		A	10.8
4	☐	1.000		6896458.93		A	1.7
5	☐	1.000		6844693.58		A	0.7
6	☐	1.000		6939483.64		A	0.0
7	☐	1.000		6932666.91		A	1.5
8	☐	1.000		6087444.98		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10281734.29		A	2.3
2	☐	1.000		9536782.43		A	2.7
3	☐	1.000		9356673.75		A	0.6
4	☐	1.000		9341207.57		A	1.3
5	☐	1.000		9017429.66		A	0.7
6	☐	1.000		9118955.91		A	0.6
7	☐	1.000		8710871.05		A	0.4
8	☐	1.000		7005786.14		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4576087.67		P	4.4
2	☐	1.000		4728172.08		P	0.8
3	☐	1.000		4400888.16		P	9.3
4	☐	1.000		4639313.58		P	1.2
5	☐	1.000		4507832.71		P	1.0
6	☐	1.000		4485007.12		P	0.5
7	☐	1.000		4367028.48		P	0.8
8	☐	1.000		3522280.61		P	0.6

US EPA Tune Check Sample Report

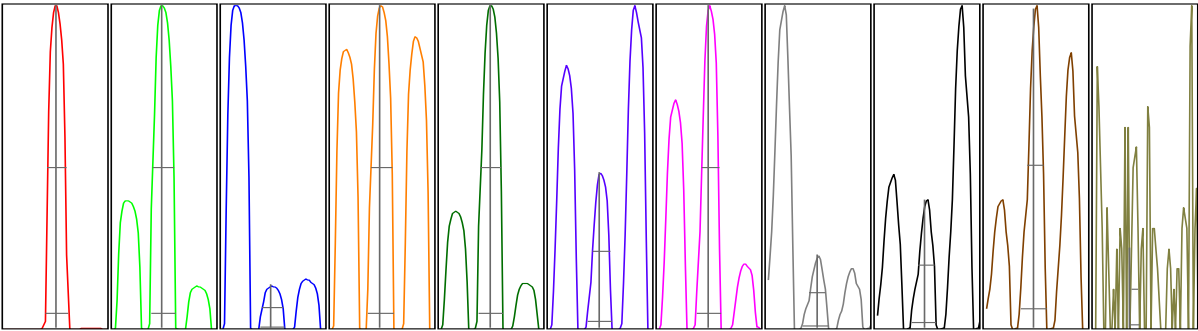
Batch Folder D:\ICP-MS Data\1\DATA\P7063020MS2.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	12441	1.35	5.00	
24	179027	1.37	5.00	
25	23549	1.47	5.00	
26	27547	1.04	5.00	
59	93023	1.19	5.00	
113	15498	1.20	5.00	
115	45103	1.55	5.00	
206	16569	1.23	5.00	
207	13881	1.10	5.00	
208	34179	1.48	5.00	
220	0	49.79		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	12486	12207	12339	12541	12631
24	178580	176894	178110	178297	183255
25	23645	23203	23316	23493	24088
26	27499	27241	27348	27684	27963
59	92834	91856	92372	93307	94748
113	15590	15256	15391	15513	15741
115	45426	44175	44555	45553	45804
206	16687	16318	16441	16564	16837
207	13918	13728	13800	13835	14126
208	34183	33663	33802	34295	34954
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	23991	9.05	8.9 - 9.1		0.685	0.900	
24	302011	23.95	23.9 - 24.1		0.740	0.900	
25	40249	24.95	24.9 - 25.1		0.738	0.900	
26	46604	25.95	25.9 - 26.1		0.775	0.900	
59	162373	59.00	58.9 - 59.1		0.740	0.900	
113	31197	113.00	112.9 - 113.1		0.723	0.900	
115	91142	115.00	114.9 - 115.1		0.723	0.900	
206	35384	206.00	205.9 - 206.1		0.761	0.900	
207	29340	206.95	206.9 - 207.1		0.732	0.900	
208	72848	207.95	207.9 - 208.1		0.771	0.900	
220	0	219.60	-		0.246		

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	0.76	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	13.2	V
Extract 2	-130.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-55	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	160	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	21442	0.84	
89	56480	0.64	
205	36174	0.59	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	21367	21244	21363	21520	21714
89	56307	56147	56746	56220	56981
205	36100	35997	36153	36076	36543

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.76	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	7.6	V	Deflect	2.2	V
Extract 2	-145.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-70	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			