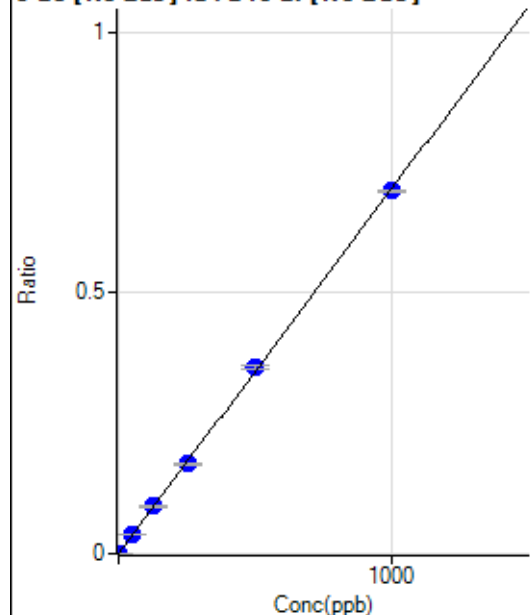


Batch Folder: D:\ICP-MS Data\P7090119-ICPMS.b\
Analysis File: P7090119-ICPMS.batch.bin
DA Date-Time: 2019-09-03 00:07:05
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2019-09-01 18:12:59
2	004CALS.d	S02	2019-09-01 18:16:35
3	005CALS.d	S03	2019-09-01 18:21:22
4	006CALS.d	S04	2019-09-01 18:25:30
5	007CALS.d	S05	2019-09-01 18:29:56
6	008CALS.d	S06	2019-09-01 18:33:42
7	009CALS.d	S07	2019-09-01 18:37:26
8	010CALS.d	S08	2019-09-01 18:41:13

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0000	P	5.3
2	☐	1.000	0.943	2705.84	0.0007	P	0.5
3	☐	50.000	51.932	136165.17	0.0363	P	0.9
4	☐	125.000	129.244	327506.20	0.0903	P	1.2
5	☐	250.000	245.278	631502.93	0.1714	P	1.5
6	☐	500.000	511.256	1201751.49	0.3572	P	1.2
7	☐	1000.000	994.926	2366762.57	0.6950	P	0.8
8	☐			594.47	0.0002	P	4.1

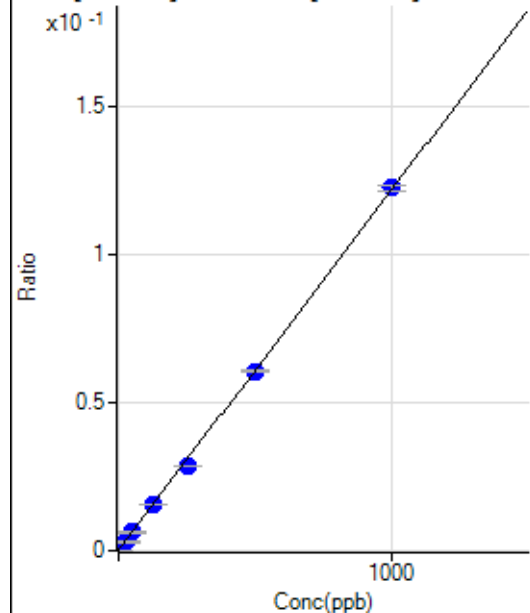
$$y = 6.9854\text{E-}004 * x + 4.2560\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.009679$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	638.93	0.0002	P	12.1
2	☐	25.000	22.822	11351.86	0.0029	P	3.8
3	☐	50.000	49.501	23187.93	0.0062	P	1.6
4	☐	125.000	124.490	55486.35	0.0153	P	0.6
5	☐	250.000	233.987	105447.27	0.0286	P	1.2
6	☐	500.000	497.032	203970.86	0.0606	P	1.6
7	☐	1000.000	1005.630	416936.19	0.1224	P	1.7
8	☐			17477.47	0.0053	P	9.9

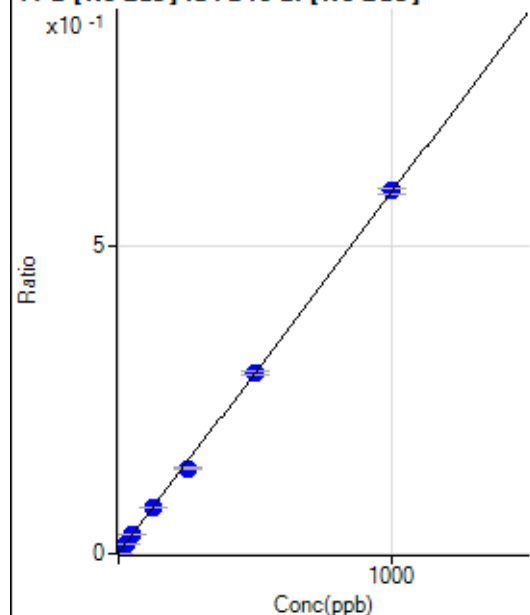
$$y = 1.2158\text{E-}004 * x + 1.6655\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.4993$$

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	3575.57	0.0009	P	8.9
2	☐	25.000	23.639	56941.19	0.0148	P	1.5
3	☐	50.000	49.837	112760.88	0.0301	P	1.5
4	☐	125.000	125.312	269096.03	0.0742	P	0.2
5	☐	250.000	235.484	510897.75	0.1386	P	1.2
6	☐	500.000	499.603	986535.53	0.2931	P	2.6
7	☐	1000.000	1003.831	2002278.69	0.5880	P	1.5
8	☐			83998.24	0.0253	P	7.9

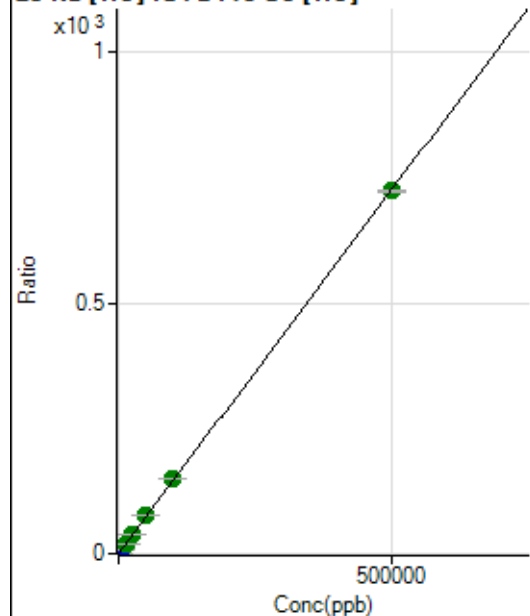
$$y = 5.8481\text{E-}004 * x + 9.3166\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.4251$$

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	35008.38	0.0714	P	1.5
2	☐	500.000	464.446	367680.38	0.7451	P	5.4
3	☐	5000.000	5420.964	3765262.97	7.9355	P	0.3
4	☐	12500.000	13055.431	8948318.34	19.0108	A	1.0
5	☐	25000.000	26414.778	17784473.83	38.3911	A	0.2
6	☐	50000.000	52632.725	35079243.49	76.4252	A	0.3
7	☐	100000.00	104040.86	70652642.55	151.0026	A	0.4
8	☐	500000.00	498839.75	355546741.28	723.7340	A	0.3

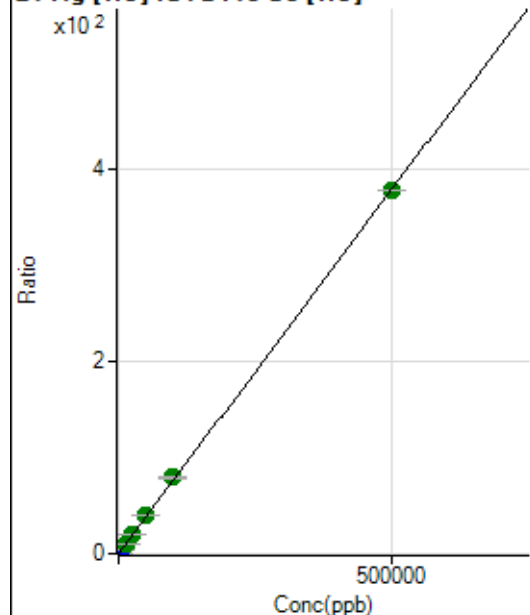
$$y = 0.0015 * x + 0.0714$$

$$R = 1.0000$$

$$DL = 2.242$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	322.24	0.0007	P	4.5
2	☐	500.000	452.587	169757.31	0.3440	P	7.8
3	☐	5000.000	5528.824	1990566.84	4.1952	P	0.2
4	☐	12500.000	13306.210	4752068.90	10.0956	A	0.8
5	☐	25000.000	26851.126	9437026.25	20.3716	A	0.4
6	☐	50000.000	53560.942	18651385.31	40.6353	A	0.1
7	☐	100000.00	104738.36	37178819.58	79.4617	A	1.0
8	☐	500000.00	498578.28	185827329.15	378.2533	A	0.1

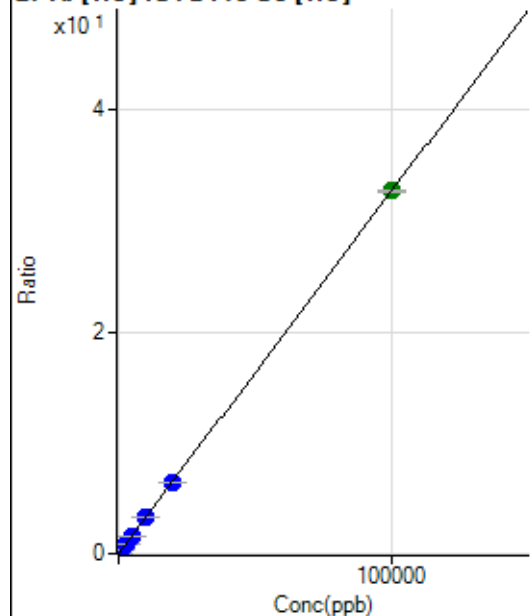
$$y = 7.5866\text{E-}004 * x + 6.5693\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1165$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0001	P	21.5
2	☐	20.000	16.147	2667.02	0.0054	P	11.3
3	☐	1000.000	1031.262	160103.54	0.3374	P	1.0
4	☐	2500.000	2479.649	381789.23	0.8111	P	0.9
5	☐	5000.000	5014.961	759878.15	1.6403	P	0.4
6	☐	10000.000	9986.652	1499225.96	3.2664	P	0.6
7	☐	20000.000	19560.105	2993334.87	6.3975	P	0.7
8	☐	100000.00	100088.76	16081878.14	32.7356	A	0.4

$$y = 3.2706\text{E-}004 * x + 1.2468\text{E-}004$$

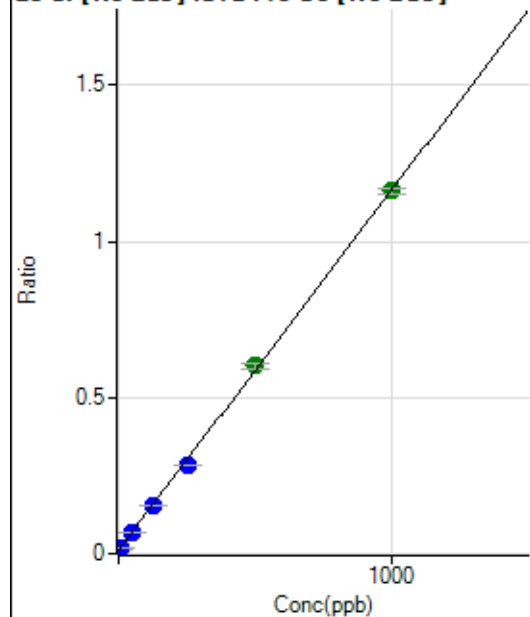
$$R = 1.0000$$

$$DL = 0.2464$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	126186.97	0.0117	P	0.7
2	☐	10.000	6.901	210707.83	0.0197	P	0.8
3	☐	50.000	47.116	690652.85	0.0660	P	2.0
4	☐	125.000	124.672	1585036.85	0.1553	P	0.5
5	☐	250.000	236.283	3019921.07	0.2838	P	0.9
6	☐	500.000	511.086	5886585.81	0.6003	A	2.2
7	☐	1000.000	998.102	11789923.35	1.1611	A	1.4
8	☐			429886.94	0.0420	P	1.1

$$y = 0.0012 * x + 0.0117$$

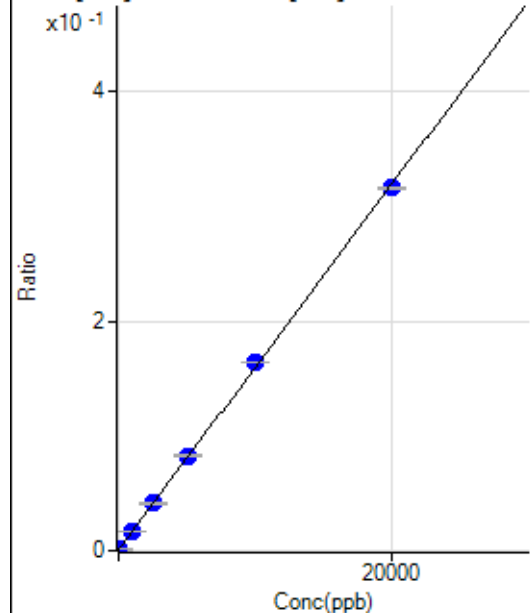
$$R = 0.9998$$

$$DL = 0.2044$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-24.527	119.45	0.0002	P	10.4
2	☐	0.000	24.527	505.58	0.0010	P	12.7
3	☐	1000.000	1017.810	7994.11	0.0168	P	1.3
4	☐	2500.000	2572.952	19594.18	0.0416	P	2.7
5	☐	5000.000	5137.672	38205.60	0.0825	P	1.3
6	☐	10000.000	10281.003	75458.58	0.1644	P	0.7
7	☐	20000.000	19815.071	147980.39	0.3163	P	0.6
8	☐			238.90	0.0005	P	9.9

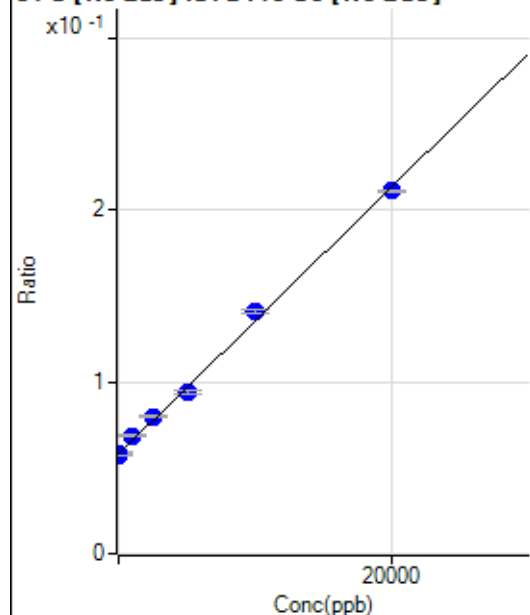
$$y = 1.5929E-005 * x + 6.3412E-004$$

$$R = 0.9998$$

$$DL = 14.66$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	106.270	631526.29	0.0587	P	0.8
2	☐	0.000	-106.270	610906.15	0.0570	P	0.9
3	☐	1000.000	1402.061	720119.32	0.0688	P	0.6
4	☐	2500.000	2845.429	816940.09	0.0800	P	0.3
5	☐	5000.000	4602.667	997074.34	0.0937	P	2.1
6	☐	10000.000	10684.020	1384254.78	0.1411	P	1.8
7	☐	20000.000	19694.041	2145677.76	0.2113	P	0.7
8	☐			572746.60	0.0559	P	1.0

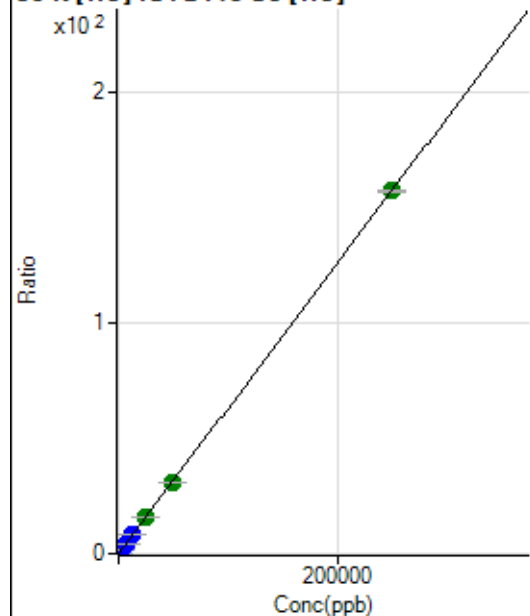
$$y = 7.7910\text{E-}006 * x + 0.0579$$

$$R = 0.9986$$

$$DL = 186.9$$

Weight: <None>

Min Conc: 0

39 K [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26397.62	0.0538	P	2.1
2	☐	500.000	464.666	170818.21	0.3462	P	3.5
3	☐	2500.000	2558.829	789435.10	1.6638	P	0.6
4	☐	6250.000	6202.744	1862246.79	3.9565	P	0.8
5	☐	12500.000	12641.807	3709598.25	8.0079	P	0.5
6	☐	25000.000	24931.382	7224620.56	15.7403	A	0.5
7	☐	50000.000	49186.388	14505143.61	31.0013	A	0.3
8	☐	250000.00	250163.15	77354613.28	157.4534	A	0.4

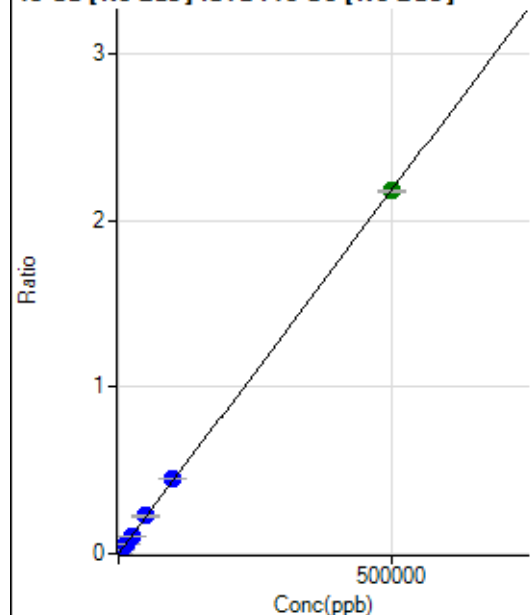
$$y = 6.2919\text{E-}004 * x + 0.0538$$

$$R = 1.0000$$

$$DL = 5.4$$

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	219.46	0.0000	P	11.9
2	☐	500.000	505.163	23834.08	0.0022	P	0.4
3	☐	5000.000	5272.003	241097.82	0.0230	P	1.1
4	☐	12500.000	13063.417	582223.72	0.0570	P	0.6
5	☐	25000.000	24493.514	1137490.89	0.1069	P	2.5
6	☐	50000.000	51620.869	2211157.58	0.2253	P	0.2
7	☐	100000.00	102511.08	4543955.27	0.4475	P	0.1
8	☐	500000.00	499344.20	22316258.14	2.1797	A	0.4

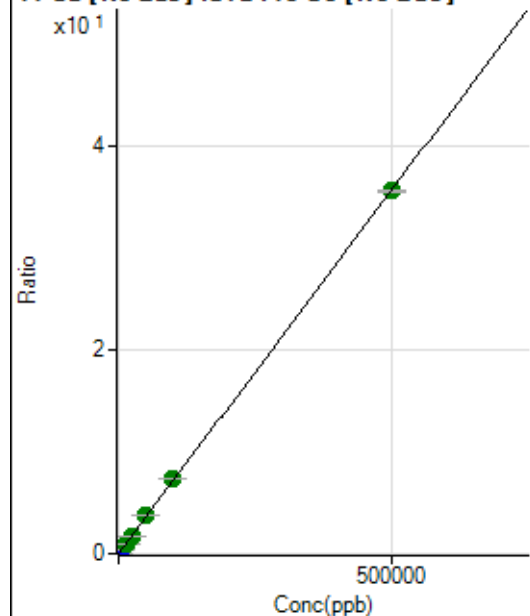
$$y = 4.3651\text{E-}006 * x + 2.0393\text{E-}005$$

$$R = 1.0000$$

$$DL = 1.67$$

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	22378.64	0.0021	P	0.6
2	☐	500.000	493.659	399620.16	0.0373	P	0.1
3	☐	5000.000	5231.817	3930642.75	0.3755	P	0.6
4	☐	12500.000	13129.089	9585612.02	0.9391	A	0.2
5	☐	25000.000	24638.947	18728894.86	1.7606	A	2.2
6	☐	50000.000	52032.562	36455200.81	3.7158	A	0.4
7	☐	100000.00	103115.69	74753862.09	7.3618	A	0.4
8	☐	500000.00	499173.61	364785633.16	35.6298	A	0.4

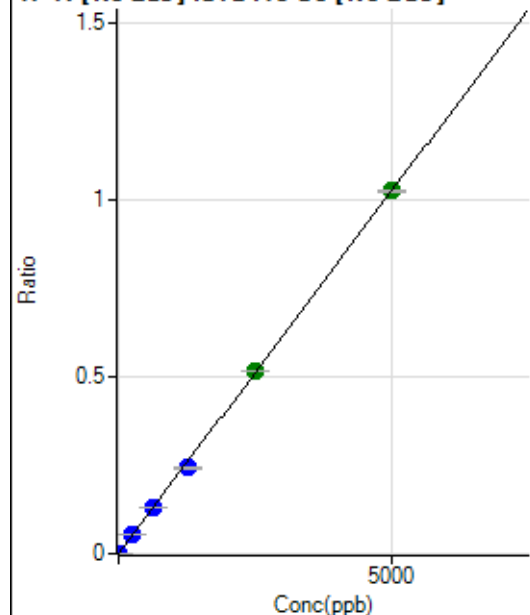
$$y = 7.1373\text{E-}005 * x + 0.0021$$

$$R = 1.0000$$

$$DL = 0.5636$$

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	125.01	0.0000	P	6.6
2	☐	5.000	5.197	11513.28	0.0011	P	3.6
3	☐	250.000	254.485	545225.48	0.0521	P	0.7
4	☐	625.000	635.010	1326373.40	0.1300	P	0.5
5	☐	1250.000	1191.189	2593112.45	0.2438	P	1.9
6	☐	2500.000	2521.102	5061544.17	0.5159	A	0.4
7	☐	5000.000	5002.676	10394822.45	1.0237	A	0.5
8	☐			3467.25	0.0003	P	1.6

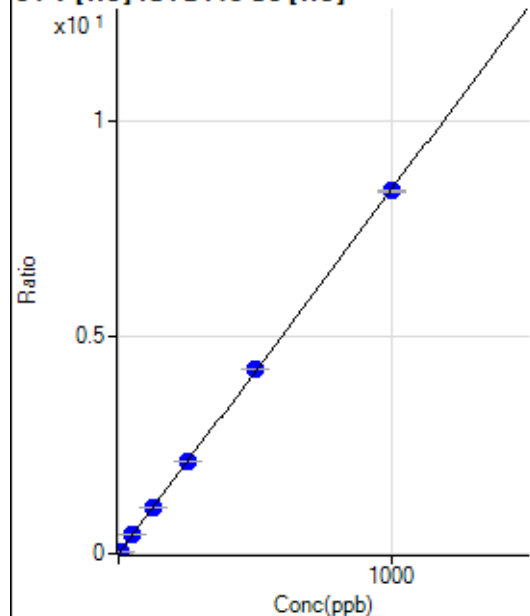
$$y = 2.0463\text{E-}004 * x + 1.1619\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01124$$

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	6.67	0.0000	P	49.8
2	☐	5.000	4.353	18055.78	0.0366	P	9.7
3	☐	50.000	51.403	204948.74	0.4319	P	0.5
4	☐	125.000	124.585	492760.46	1.0469	P	0.5
5	☐	250.000	253.058	985062.68	2.1264	P	0.2
6	☐	500.000	505.843	1950990.34	4.2506	P	0.4
7	☐	1000.000	996.299	3917104.52	8.3718	P	0.3
8	☐			1052.28	0.0021	P	11.1

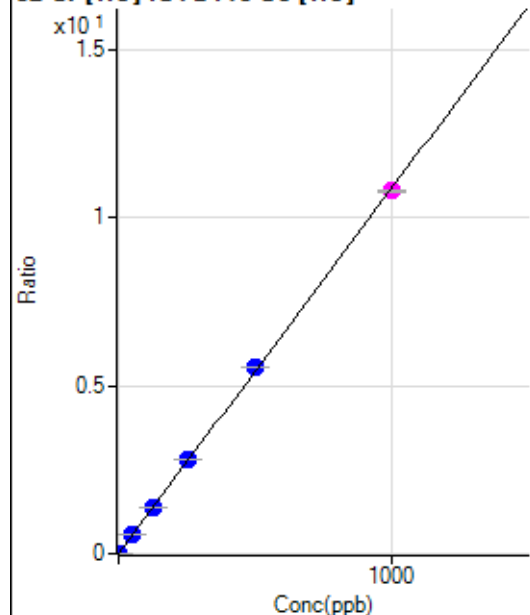
$$y = 0.0084 * x + 1.3566\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.002413$$

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	893.37	0.0018	P	6.0
2	☐	2.000	1.622	9583.29	0.0194	P	9.8
3	☐	50.000	52.618	271777.74	0.5728	P	0.2
4	☐	125.000	125.986	644329.39	1.3689	P	1.0
5	☐	250.000	256.006	1287723.73	2.7798	P	0.5
6	☐	500.000	509.215	2537031.02	5.5274	P	0.1
7	☐	1000.000	993.637	5045674.54	10.7839	M	0.2
8	☐			139154.40	0.2833	P	0.4

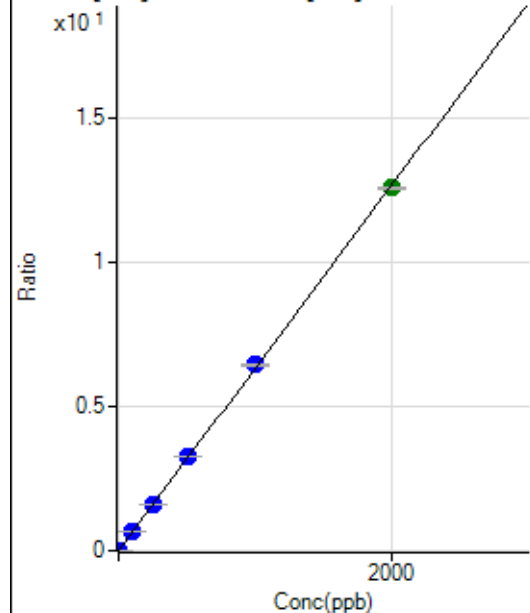
$$y = 0.0109 * x + 0.0018$$

$$R = 0.9999$$

$$DL = 0.0301$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.89	0.0001	P	7.3
2	☐	1.000	0.888	2830.32	0.0057	P	7.4
3	☐	100.000	104.939	315088.49	0.6641	P	1.2
4	☐	250.000	252.547	752220.39	1.5980	P	0.7
5	☐	500.000	514.332	1507590.69	3.2544	P	0.1
6	☐	1000.000	1017.097	2953938.12	6.4355	P	0.6
7	☐	2000.000	1987.303	5883310.89	12.5742	A	0.3
8	☐			19892.50	0.0405	P	0.3

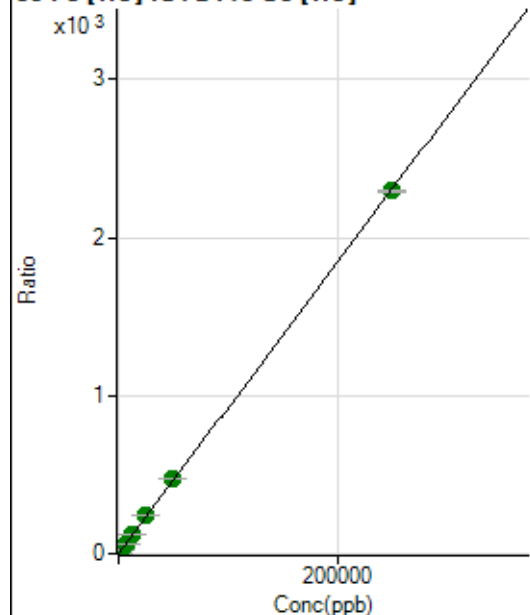
$$y = 0.0063 * x + 1.2008E-004$$

$$R = 0.9999$$

$$DL = 0.004184$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3222.67	0.0066	P	8.5
2	☐	50.000	45.209	208480.13	0.4225	P	8.9
3	☐	2500.000	2738.453	11957183.14	25.2003	A	0.4
4	☐	6250.000	6620.493	28671820.55	60.9150	A	0.9
5	☐	12500.000	13422.647	57208373.50	123.4946	A	0.2
6	☐	25000.000	26645.375	112519768.25	245.1434	A	0.1
7	☐	50000.000	51969.011	223706547.59	478.1203	A	0.3
8	☐	250000.00	249383.88	1127126136.3	2,294.332	A	0.7

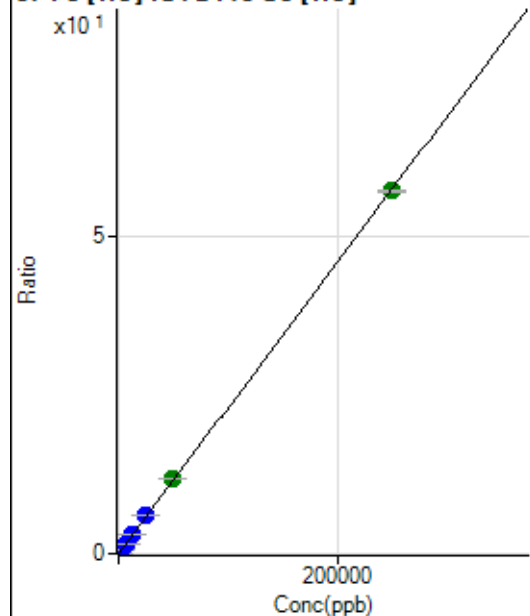
$$y = 0.0092 * x + 0.0066$$

$$R = 1.0000$$

$$DL = 0.1821$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	131.48	0.0003	P	16.8
2	☐	50.000	46.373	5371.49	0.0109	P	10.8
3	☐	2500.000	2743.216	298180.24	0.6284	P	0.7
4	☐	6250.000	6627.142	714358.59	1.5178	P	1.1
5	☐	12500.000	13378.290	1419216.21	3.0636	P	0.3
6	☐	25000.000	26589.815	2794788.02	6.0888	P	0.4
7	☐	50000.000	52100.655	5582104.64	11.9303	A	0.4
8	☐	250000.00	249365.11	28051859.89	57.1002	A	0.5

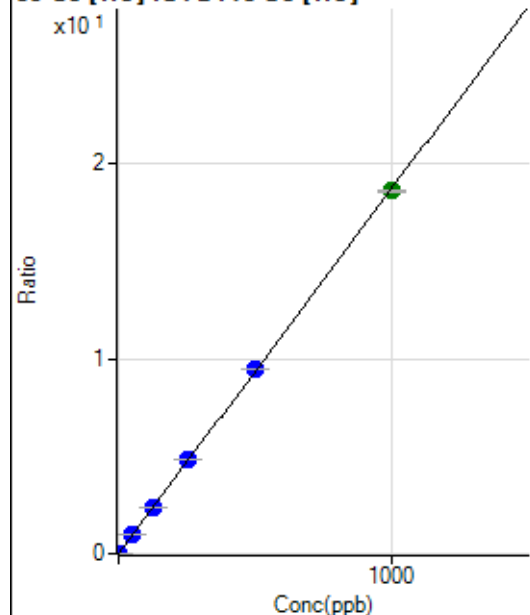
$$y = 2.2898E-004 * x + 2.6789E-004$$

$$R = 1.0000$$

$$DL = 0.5881$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.89	0.0003	P	7.3
2	☐	1.000	0.851	8024.55	0.0163	P	5.6
3	☐	50.000	52.932	470387.18	0.9914	P	0.4
4	☐	125.000	127.992	1128128.24	2.3967	P	0.6
5	☐	250.000	257.703	2235293.66	4.8253	P	0.5
6	☐	500.000	506.092	4349374.38	9.4759	P	0.2
7	☐	1000.000	994.508	8712313.13	18.6205	A	0.5
8	☐			106003.82	0.2158	P	0.9

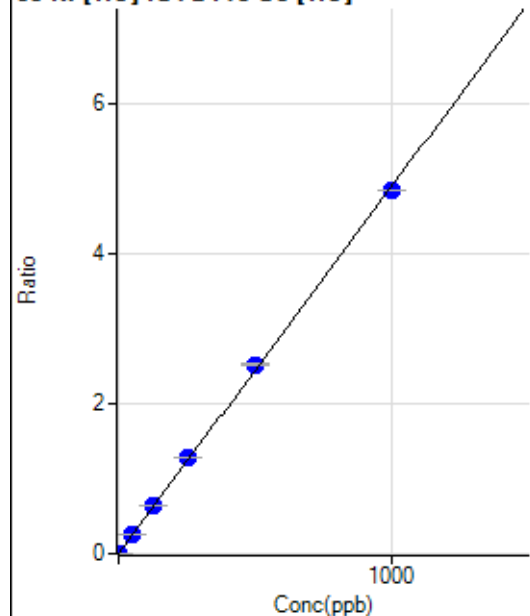
$$y = 0.0187 * x + 3.2399E-004$$

$$R = 0.9999$$

$$DL = 0.003779$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	457.80	0.0009	P	13.1
2	☐	1.000	0.949	2749.20	0.0056	P	6.9
3	☐	50.000	54.040	125690.72	0.2649	P	0.5
4	☐	125.000	131.035	301712.79	0.6410	P	0.7
5	☐	250.000	262.915	595360.39	1.2852	P	0.5
6	☐	500.000	514.897	1154861.57	2.5161	P	0.4
7	☐	1000.000	988.366	2259362.41	4.8288	P	0.1
8	☐			60767.57	0.1237	P	1.1

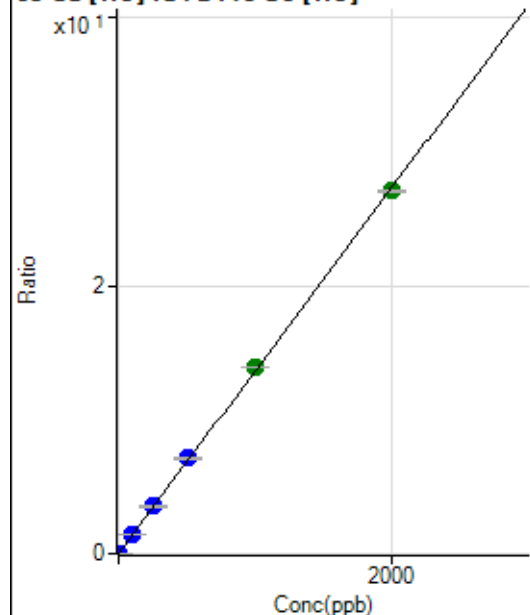
$$y = 0.0049 * x + 9.3336E-004$$

$$R = 0.9997$$

$$DL = 0.07486$$

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	1161.18	0.0024	P	9.1
2	☐	2.000	1.718	12723.49	0.0258	P	9.3
3	☐	100.000	107.902	699163.63	1.4735	P	0.3
4	☐	250.000	258.336	1659005.48	3.5246	P	0.6
5	☐	500.000	520.950	3291391.55	7.1051	P	0.6
6	☐	1000.000	1017.161	6366506.08	13.8705	A	0.2
7	☐	2000.000	1984.745	12662286.34	27.0628	A	0.6
8	☐			26774.73	0.0545	P	2.2

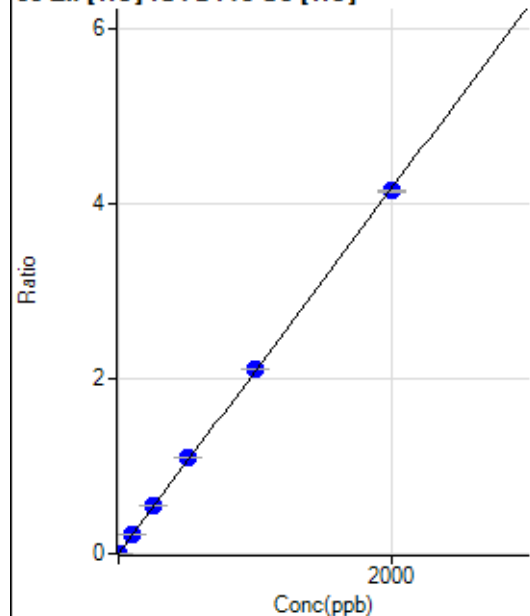
$$y = 0.0136 * x + 0.0024$$

$$R = 0.9999$$

$$DL = 0.04747$$

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	751.14	0.0015	P	2.3
2	☐	2.000	1.939	2754.74	0.0056	P	5.0
3	☐	100.000	108.491	108286.48	0.2282	P	1.1
4	☐	250.000	260.980	257412.77	0.5469	P	0.6
5	☐	500.000	522.873	506836.98	1.0941	P	0.4
6	☐	1000.000	1010.492	969860.06	2.1130	P	0.1
7	☐	2000.000	1987.239	1943619.50	4.1540	P	0.2
8	☐			16189.18	0.0330	P	4.3

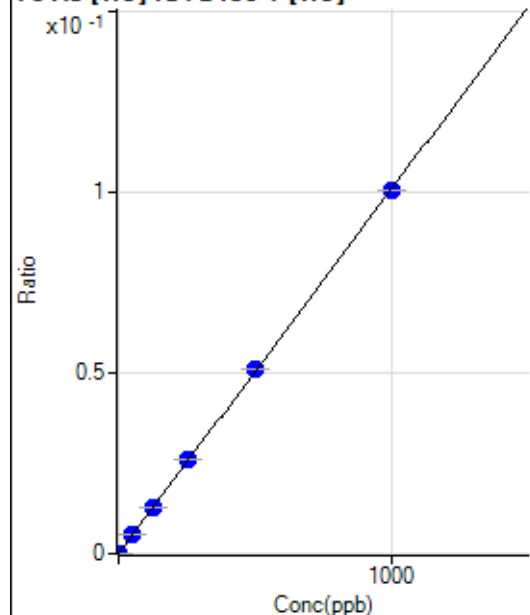
$$y = 0.0021 * x + 0.0015$$

$$R = 0.9999$$

$$DL = 0.05104$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.43	0.0000	P	25.3
2	☐	1.000	0.839	476.56	0.0001	P	14.8
3	☐	50.000	51.580	27565.67	0.0052	P	0.3
4	☐	125.000	127.367	66973.60	0.0128	P	0.8
5	☐	250.000	257.162	133961.40	0.0259	P	0.5
6	☐	500.000	505.380	261371.11	0.0509	P	0.3
7	☐	1000.000	995.145	519511.02	0.1003	P	0.1
8	☐			785.83	0.0001	P	9.1

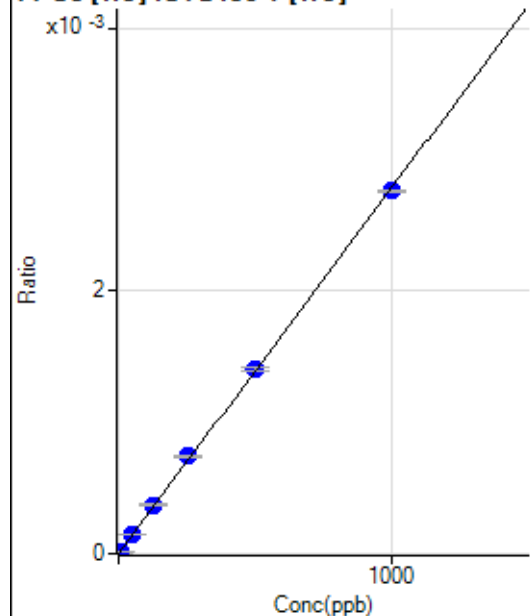
$$y = 1.0078\text{E-}004 * x + 2.8293\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.02129$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.540	70.00	0.0000	P	17.2
3	☐	50.000	51.959	767.81	0.0001	P	3.4
4	☐	125.000	133.963	1946.83	0.0004	P	1.7
5	☐	250.000	266.118	3830.57	0.0007	P	3.4
6	☐	500.000	504.976	7215.25	0.0014	P	1.5
7	☐	1000.000	992.266	14311.69	0.0028	P	0.8
8	☐			10.00	0.0000	P	33.3

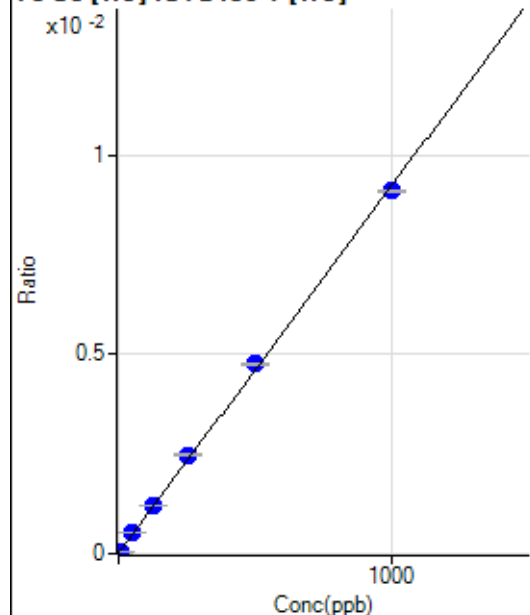
$$y = 2.7843\text{E-}006 * x + 2.0284\text{E-}007$$

$$R = 0.9998$$

$$DL = 0.3786$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.98	0.0000	P	22.0
2	☐	5.000	5.048	295.68	0.0001	P	12.7
3	☐	50.000	54.789	2718.18	0.0005	P	2.1
4	☐	125.000	131.311	6356.38	0.0012	P	1.5
5	☐	250.000	267.234	12773.60	0.0025	P	2.7
6	☐	500.000	515.821	24444.12	0.0048	P	1.3
7	☐	1000.000	986.752	47165.88	0.0091	P	0.4
8	☐			72.22	0.0000	P	17.3

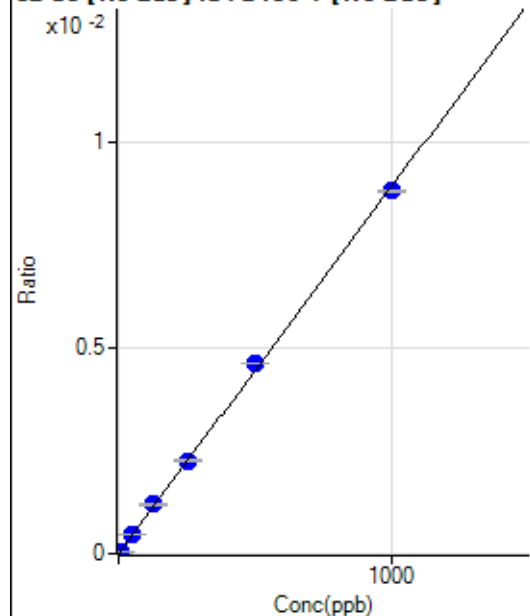
$$y = 9.2199\text{E-}006 * x + 7.6945\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.5509$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.41	0.0000	P	110.
2	☐	5.000	5.598	2005.96	0.0001	P	2.7
3	☐	50.000	54.118	18657.79	0.0005	P	0.8
4	☐	125.000	134.035	45509.79	0.0012	P	0.8
5	☐	250.000	252.477	89223.44	0.0023	P	1.8
6	☐	500.000	518.873	169662.52	0.0046	P	0.9
7	☐	1000.000	988.606	331013.46	0.0088	P	0.6
8	☐			178.32	0.0000	P	54.2

$$y = 8.9291\text{E-}006 * x + 7.6998\text{E-}007$$

$$R = 0.9997$$

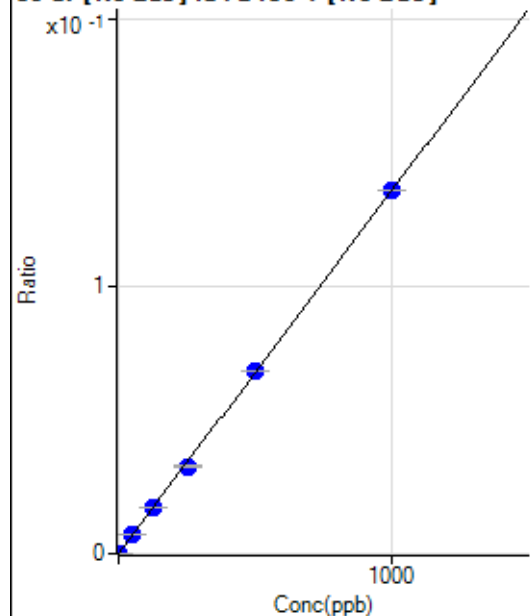
$$DL = 0.2853$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			414.46		P	7.0
2	☐			411.13		P	11.4
3	☐			440.01		P	8.7
4	☐			417.79		P	8.5
5	☐			406.68		P	5.1
6	☐			422.24		P	8.9
7	☐			456.69		P	8.6
8	☐			412.24		P	15.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	650.05	0.0000	P	4.9
2	☐	1.000	0.971	5851.42	0.0001	P	3.1
3	☐	50.000	51.444	269408.36	0.0070	P	1.4
4	☐	125.000	128.306	661458.31	0.0174	P	1.0
5	☐	250.000	239.884	1286802.37	0.0325	P	2.7
6	☐	500.000	503.225	2497451.49	0.0682	P	0.6
7	☐	1000.000	1000.431	5084603.59	0.1356	P	0.1
8	☐			21046.77	0.0006	P	1.8

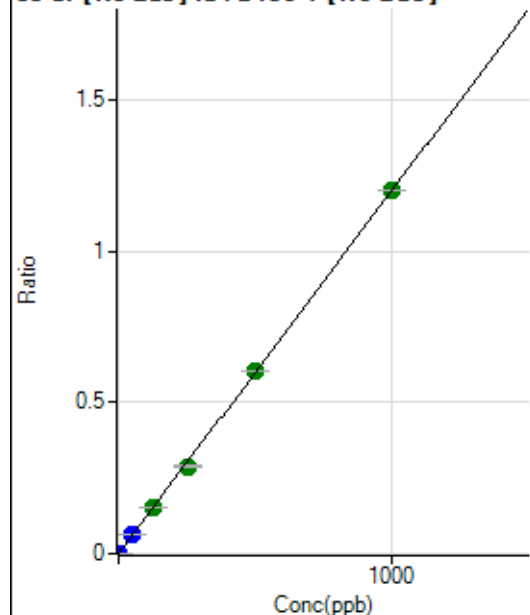
$$y = 1.3553E-004 * x + 1.6396E-005$$

$$R = 0.9999$$

$$DL = 0.01786$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	166.68	0.0000	P	9.8
2	☐	1.000	0.980	46604.67	0.0012	P	1.0
3	☐	50.000	50.869	2351743.17	0.0610	P	1.0
4	☐	125.000	127.355	5803932.51	0.1527	A	0.1
5	☐	250.000	239.561	11365494.79	0.2873	A	2.3
6	☐	500.000	503.724	22113020.98	0.6041	A	0.1
7	☐	1000.000	1000.410	44982968.02	1.1997	A	0.1
8	☐			183364.90	0.0049	P	0.4

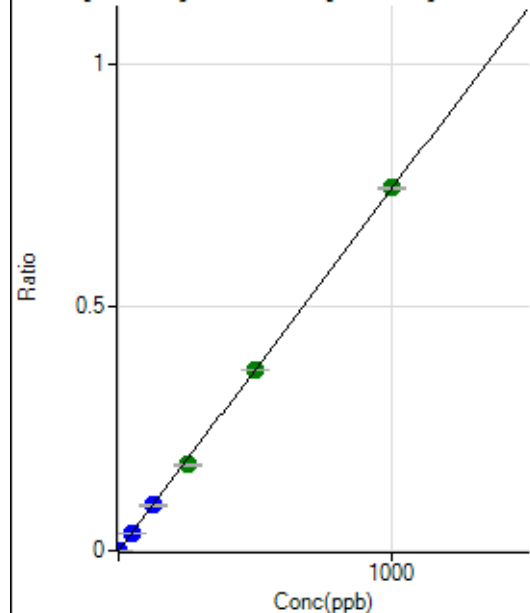
$$y = 0.0012 * x + 4.2029E-006$$

$$R = 0.9999$$

$$DL = 0.001034$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1877.98	0.0000	P	0.9
2	☐	1.000	0.867	27340.83	0.0007	P	0.9
3	☐	50.000	49.849	1429702.80	0.0371	P	0.5
4	☐	125.000	125.114	3534704.85	0.0930	P	0.5
5	☐	250.000	237.337	6978969.52	0.1764	A	1.9
6	☐	500.000	499.618	13592742.75	0.3713	A	0.5
7	☐	1000.000	1003.350	27956009.31	0.7456	A	0.5
8	☐			10081.78	0.0003	P	6.0

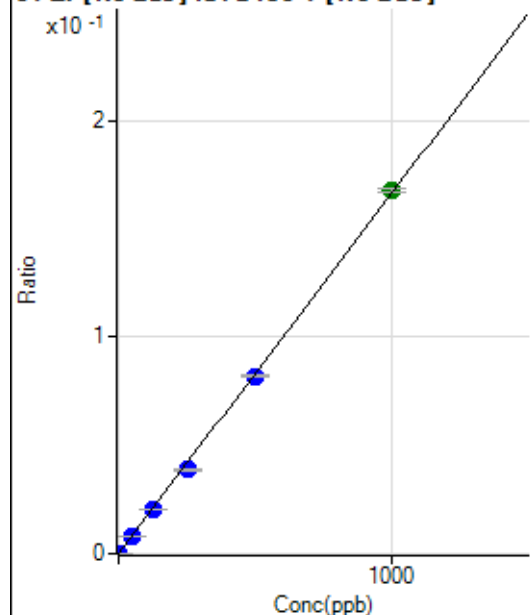
$$y = 7.4305E-004 * x + 4.7362E-005$$

$$R = 0.9999$$

$$DL = 0.001692$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	358.36	0.0000	P	5.2
2	☐	1.000	0.873	6093.22	0.0002	P	1.2
3	☐	50.000	49.727	319212.18	0.0083	P	0.9
4	☐	125.000	124.393	786685.27	0.0207	P	0.3
5	☐	250.000	234.405	1543004.43	0.0390	P	2.0
6	☐	500.000	493.135	3003563.78	0.0820	P	0.8
7	☐	1000.000	1007.421	6283813.25	0.1676	A	1.0
8	☐			2397.53	0.0001	P	3.8

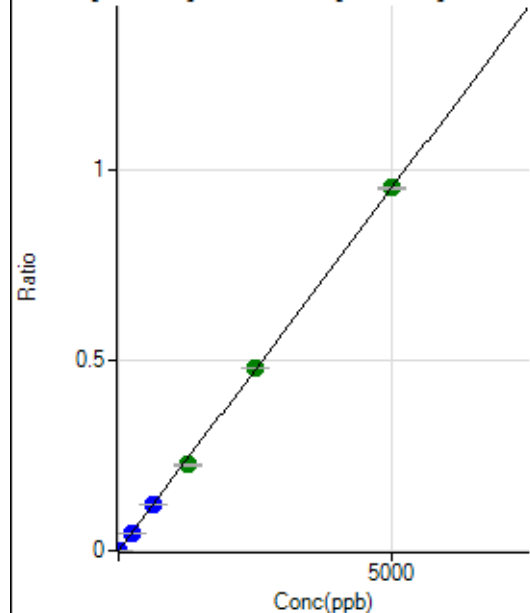
$$y = 1.6634\text{E-}004 * x + 9.0393\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.008514$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	605.60	0.0000	P	12.7
2	☐	5.000	4.661	35743.07	0.0009	P	0.9
3	☐	250.000	250.004	1838955.90	0.0477	P	0.5
4	☐	625.000	629.519	4564004.23	0.1201	P	0.7
5	☐	1250.000	1188.448	8969741.00	0.2267	A	2.1
6	☐	2500.000	2515.251	17563103.17	0.4798	A	0.4
7	☐	5000.000	5007.198	35814828.93	0.9552	A	0.5
8	☐			26049.70	0.0007	P	3.8

$$y = 1.9076\text{E-}004 * x + 1.5275\text{E-}005$$

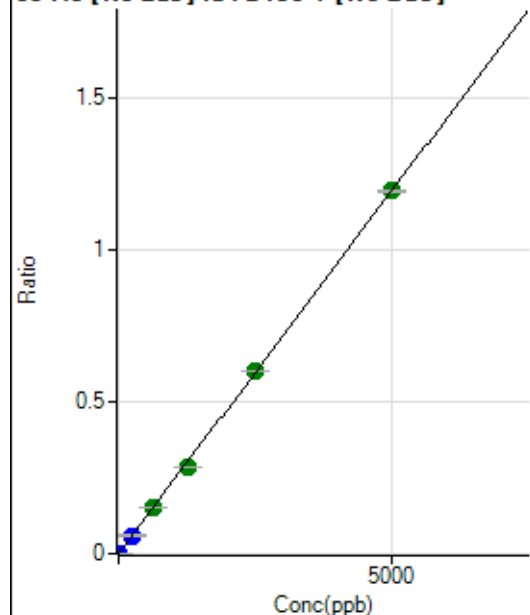
$$R = 0.9999$$

$$DL = 0.03044$$

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	122.23	0.0000	P	14.6
2	☐	5.000	4.744	44955.05	0.0011	P	1.7
3	☐	250.000	251.767	2321128.76	0.0602	P	0.3
4	☐	625.000	631.871	5742564.41	0.1511	A	0.6
5	☐	1250.000	1192.885	11286994.09	0.2853	A	1.6
6	☐	2500.000	2519.455	22055360.04	0.6025	A	0.2
7	☐	5000.000	5003.604	44867728.78	1.1966	A	0.5
8	☐			39929.23	0.0011	P	4.1

$$y = 2.3915E-004 * x + 3.0836E-006$$

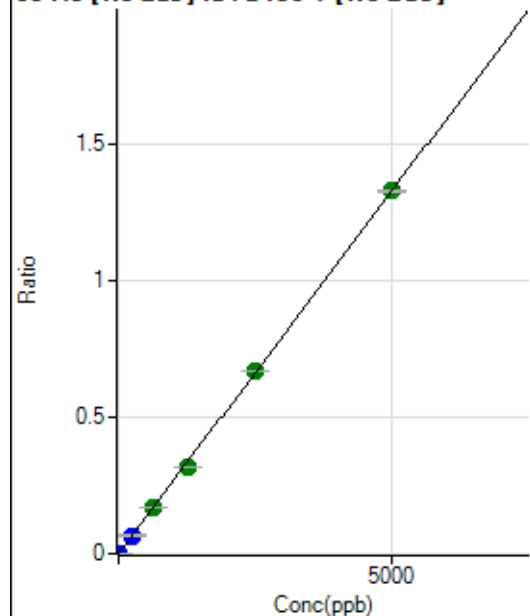
$$R = 0.9999$$

$$DL = 0.005645$$

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	286.13	0.0000	P	9.8
2	☐	5.000	4.735	49960.47	0.0013	P	1.4
3	☐	250.000	252.037	2579501.29	0.0669	P	0.5
4	☐	625.000	629.157	6347374.01	0.1670	A	0.5
5	☐	1250.000	1190.632	12506212.17	0.3161	A	1.3
6	☐	2500.000	2512.193	24414086.14	0.6669	A	0.2
7	☐	5000.000	5008.124	49850856.32	1.3295	A	0.2
8	☐			44058.29	0.0012	P	4.4

$$y = 2.6547E-004 * x + 7.2141E-006$$

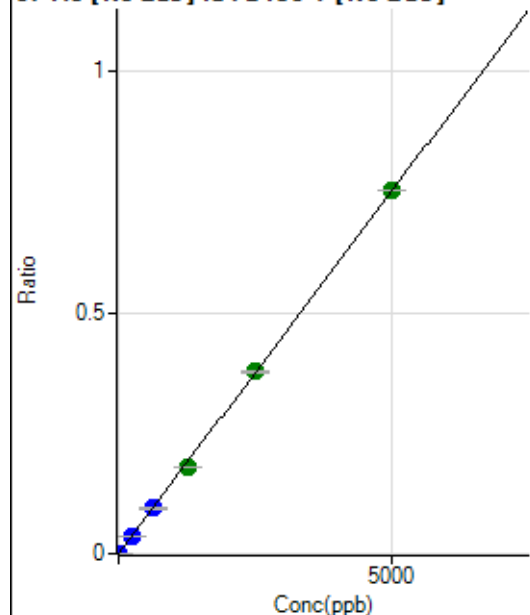
$$R = 0.9999$$

$$DL = 0.007998$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0000	P	18.9
2	☐	5.000	4.721	28159.15	0.0007	P	0.9
3	☐	250.000	250.797	1453140.56	0.0377	P	0.2
4	☐	625.000	625.883	3574784.89	0.0941	P	0.7
5	☐	1250.000	1192.015	7088543.82	0.1792	A	1.3
6	☐	2500.000	2511.612	13818073.83	0.3775	A	0.4
7	☐	5000.000	5008.541	28224962.78	0.7528	A	0.1
8	☐			24051.70	0.0006	P	2.3

$$y = 1.5029E-004 * x + 2.9424E-006$$

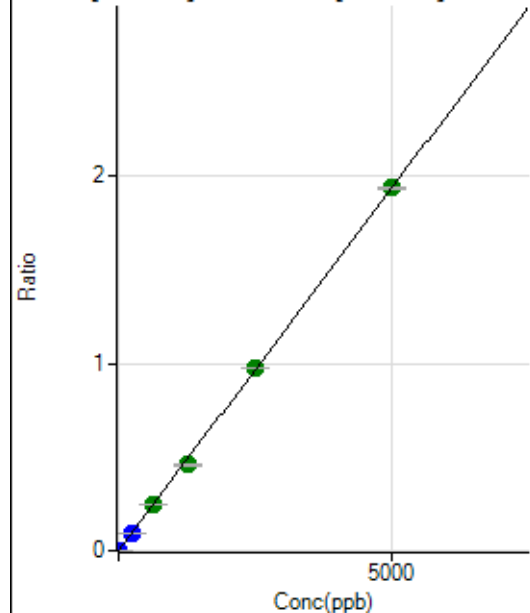
$$R = 0.9999$$

$$DL = 0.01111$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.23	0.0000	P	10.3
2	☐	5.000	4.700	72127.50	0.0018	P	1.8
3	☐	250.000	250.992	3747462.06	0.0972	P	0.7
4	☐	625.000	629.810	9269590.92	0.2439	A	0.5
5	☐	1250.000	1189.480	18226853.19	0.4607	A	1.5
6	☐	2500.000	2511.767	35611410.17	0.9728	A	0.2
7	☐	5000.000	5008.596	72733428.71	1.9398	A	0.3
8	☐			62680.30	0.0017	P	3.1

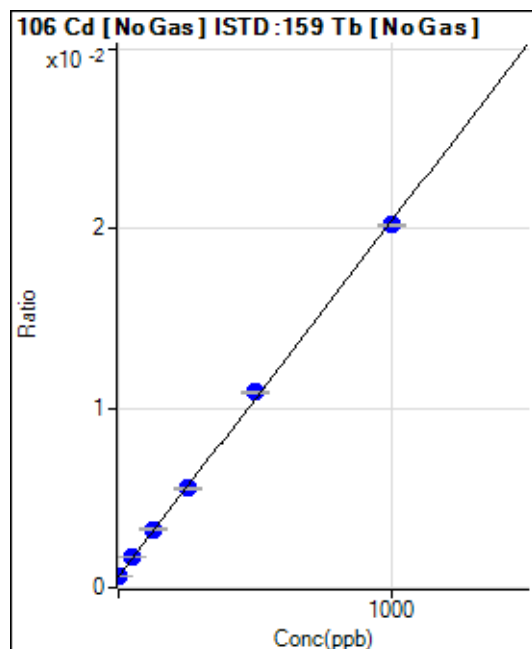
$$y = 3.8729E-004 * x + 4.9731E-006$$

$$R = 0.9999$$

$$DL = 0.003975$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18498.91	0.0006	P	2.6
2	☐	1.000	-0.367	18145.49	0.0006	P	3.1
3	☐	50.000	54.395	49342.64	0.0017	P	1.2
4	☐	125.000	133.515	93949.20	0.0033	P	1.7
5	☐	250.000	247.791	166928.23	0.0055	P	2.4
6	☐	500.000	519.526	302746.85	0.0109	P	0.6
7	☐	1000.000	989.507	575505.23	0.0202	P	0.8
8	☐			18204.15	0.0007	P	3.5

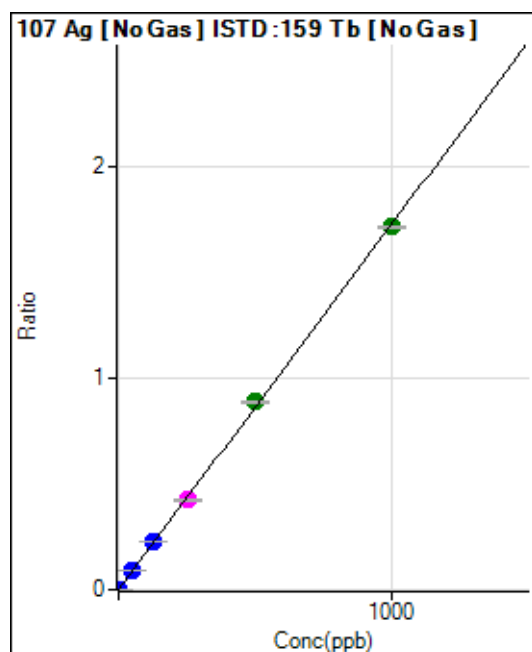
$$y = 1.9801\text{E-}005 * x + 6.2135\text{E-}004$$

$$R = 0.9997$$

$$DL = 2.441$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	522.80	0.0000	P	14.5
2	☐	1.000	1.019	52610.15	0.0018	P	0.3
3	☐	50.000	53.488	2688964.68	0.0926	P	0.8
4	☐	125.000	132.472	6595390.51	0.2292	P	0.8
5	☐	250.000	244.974	12800615.26	0.4239	M	1.8
6	☐	500.000	513.744	24661916.21	0.8889	A	1.4
7	☐	1000.000	993.276	48927228.11	1.7185	A	0.5
8	☐			6966.65	0.0003	P	11.4

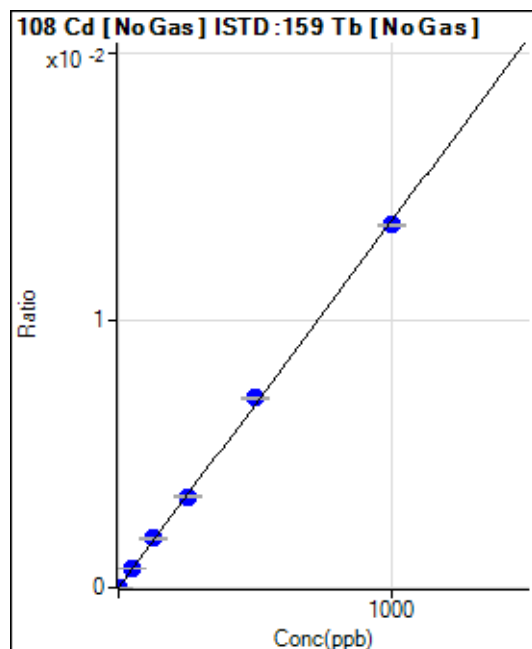
$$y = 0.0017 * x + 1.7569\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.004414$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	54.17	0.0000	P	47.2
2	☐	1.000	1.118	506.97	0.0000	P	14.1
3	☐	50.000	54.451	21753.04	0.0007	P	0.6
4	☐	125.000	133.988	52940.52	0.0018	P	1.2
5	☐	250.000	248.985	103208.52	0.0034	P	1.8
6	☐	500.000	517.672	197097.89	0.0071	P	1.3
7	☐	1000.000	990.072	386747.34	0.0136	P	0.4
8	☐			148.61	0.0000	P	2.3

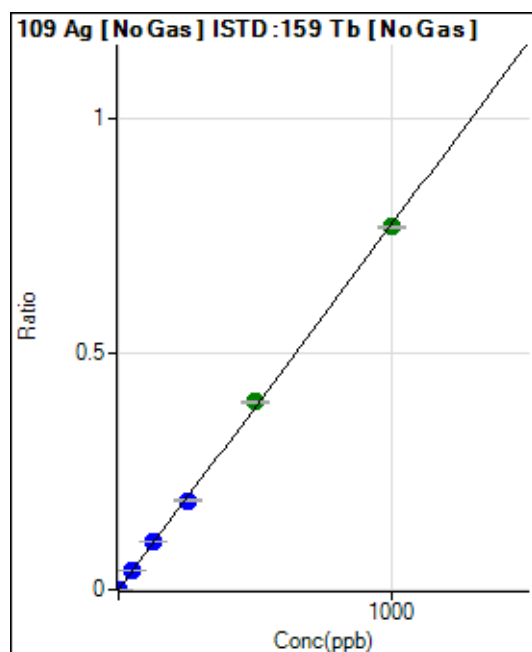
$$y = 1.3718\text{E-}005 * x + 1.8146\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.1873$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	183.34	0.0000	P	5.0
2	☐	1.000	1.005	23172.62	0.0008	P	1.7
3	☐	50.000	53.276	1198143.84	0.0412	P	0.9
4	☐	125.000	132.149	2943281.32	0.1023	P	0.8
5	☐	250.000	244.517	5715617.53	0.1893	P	2.0
6	☐	500.000	513.560	11028176.20	0.3975	A	1.6
7	☐	1000.000	993.533	21894075.66	0.7690	A	0.7
8	☐			3092.14	0.0001	P	10.7

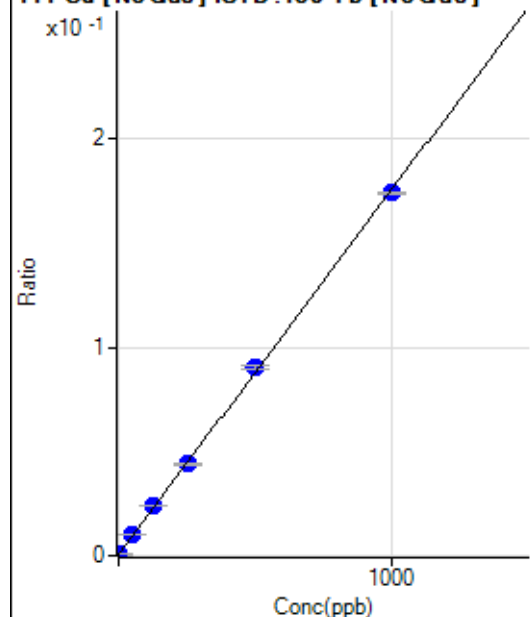
$$y = 7.7399\text{E-}004 * x + 6.1589\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.001182$$

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	12979.38	0.0004	P	2.5
2	☐	1.000	0.911	17588.31	0.0006	P	2.1
3	☐	50.000	53.849	286284.30	0.0099	P	1.5
4	☐	125.000	134.288	688387.54	0.0239	P	1.0
5	☐	250.000	248.733	1326946.67	0.0439	P	2.3
6	☐	500.000	514.417	2508350.80	0.0904	P	1.5
7	☐	1000.000	991.755	4950952.12	0.1739	P	0.8
8	☐			13657.00	0.0005	P	3.8

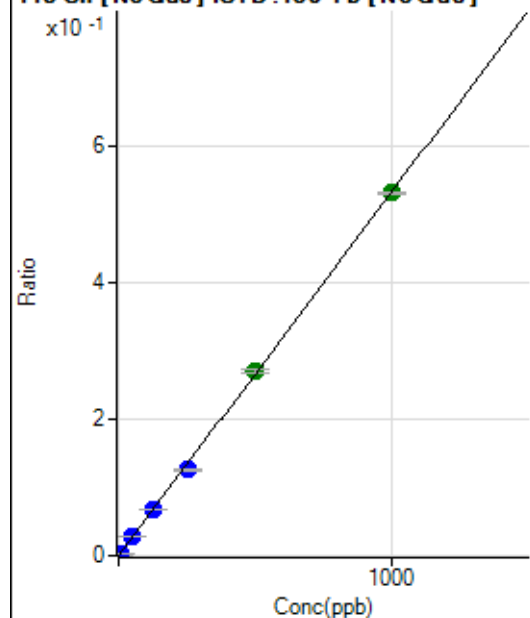
$$y = 1.7491\text{E-}004 * x + 4.3596\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.186$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1886.33	0.0001	P	11.6
2	☐	5.000	5.101	82157.29	0.0028	P	1.8
3	☐	50.000	50.950	790210.62	0.0272	P	1.2
4	☐	125.000	126.971	1947756.19	0.0677	P	0.4
5	☐	250.000	237.505	3822115.97	0.1266	P	2.1
6	☐	500.000	509.216	7524799.82	0.2713	A	2.2
7	☐	1000.000	998.221	15138713.01	0.5317	A	0.7
8	☐			8703.08	0.0003	P	3.6

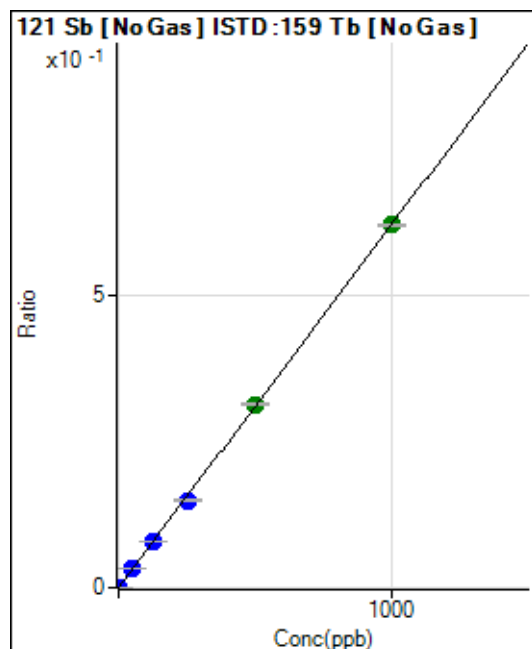
$$y = 5.3262\text{E-}004 * x + 6.3394\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.04129$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	350.02	0.0000	P	19.5
2	☐	2.000	1.944	36049.96	0.0012	P	1.1
3	☐	50.000	50.791	917571.80	0.0316	P	1.3
4	☐	125.000	127.414	2279312.66	0.0792	P	0.5
5	☐	250.000	239.450	4495102.83	0.1489	P	2.6
6	☐	500.000	505.404	8718638.82	0.3142	A	0.9
7	☐	1000.000	999.594	17690879.56	0.6214	A	0.5
8	☐			26425.76	0.0010	P	3.4

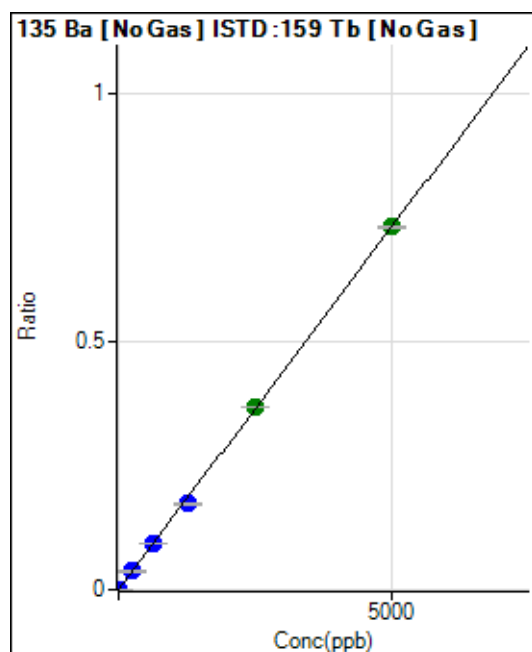
$$y = 6.2161\text{E-}004 * x + 1.1767\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01107$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	27.1
2	☐	10.000	10.060	43502.35	0.0015	P	2.5
3	☐	250.000	253.283	1075417.62	0.0370	P	1.3
4	☐	625.000	636.368	2676056.14	0.0930	P	0.3
5	☐	1250.000	1192.091	5261234.80	0.1742	P	2.1
6	☐	2500.000	2515.951	10205775.75	0.3677	A	0.3
7	☐	5000.000	5004.917	20824171.82	0.7314	A	0.4
8	☐			4259.15	0.0002	P	4.4

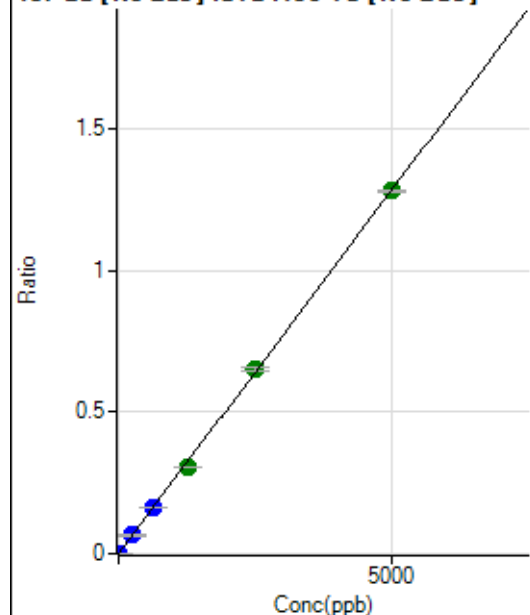
$$y = 1.4614\text{E-}004 * x + 2.1457\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01196$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.56	0.0000	P	23.2
2	☐	10.000	10.109	76687.03	0.0026	P	0.8
3	☐	250.000	251.934	1877937.32	0.0646	P	1.7
4	☐	625.000	636.065	4695863.47	0.1632	P	1.0
5	☐	1250.000	1193.485	9247908.89	0.3062	A	1.8
6	☐	2500.000	2537.831	18064540.86	0.6511	A	1.7
7	☐	5000.000	4993.733	36477321.30	1.2812	A	0.6
8	☐			7216.13	0.0003	P	9.0

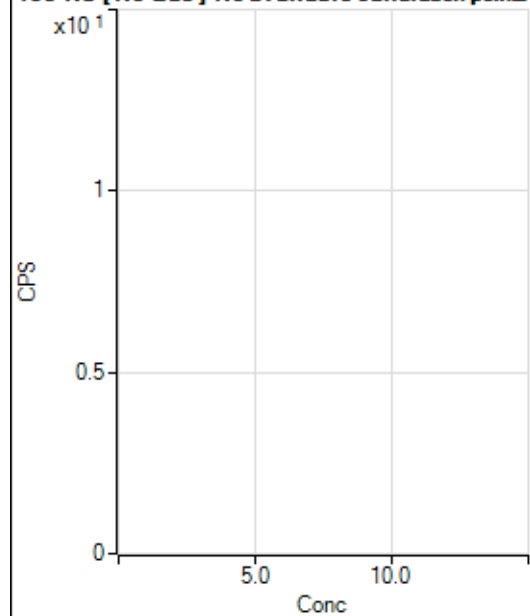
$$y = 2.5657E-004 * x + 1.8667E-006$$

$$R = 0.9999$$

$$DL = 0.005058$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			4.45		P	86.6
2	☐			6.67		P	100.
3	☐			82.23		P	33.8
4	☐			197.79		P	41.6
5	☐			377.80		P	25.8
6	☐			835.61		P	9.5
7	☐			1546.81		P	7.5
8	☐			248.90		P	13.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			17.78		P	39.0
3	☐			7.78		P	49.5
4	☐			24.45		P	43.8
5	☐			27.78		P	18.3
6	☐			60.00		P	0.0
7	☐			136.67		P	12.2
8	☐			83.34		P	25.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	142.
2	☐			38.89		P	49.5
3	☐			16.67		P	86.6
4	☐			25.00		P	88.2
5	☐			97.23		P	27.6
6	☐			169.45		P	28.0
7	☐			300.02		P	14.4
8	☐			86.12		P	43.6

156 Dy [He] No available calibration points

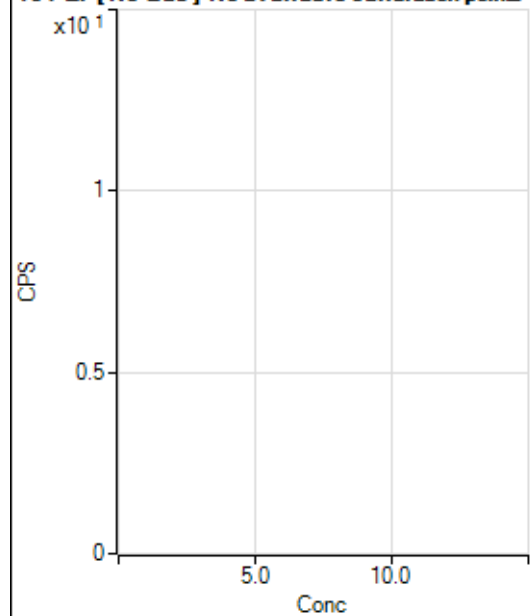
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			24.44		P	77.6
3	☐			27.78		P	36.7
4	☐			61.11		P	13.7
5	☐			98.89		P	20.6
6	☐			181.12		P	12.9
7	☐			345.56		P	2.0
8	☐			50.00		P	30.6

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.24		P	22.6
2	☐			202.79		P	22.6
3	☐			194.45		P	16.2
4	☐			288.91		P	24.2
5	☐			213.90		P	30.3
6	☐			244.46		P	11.0
7	☐			258.35		P	27.9
8	☐			269.46		P	19.6

160 Gd [He] No available calibration points

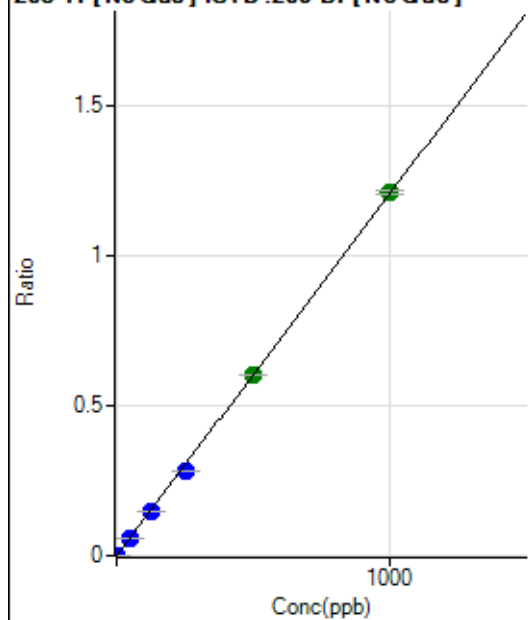
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			318.90		P	8.5
2	☐			327.79		P	16.9
3	☐			312.23		P	12.5
4	☐			323.35		P	14.2
5	☐			381.12		P	11.9
6	☐			317.79		P	8.7
7	☐			322.23		P	5.2
8	☐			332.23		P	7.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	32.9
2	☐			97.23		P	26.2
3	☐			127.78		P	24.7
4	☐			102.79		P	20.4
5	☐			130.56		P	9.8
6	☐			141.67		P	21.2
7	☐			141.68		P	21.2
8	☐			122.23		P	21.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			56.67		P	21.2
2	☐			64.44		P	36.7
3	☐			55.56		P	25.0
4	☐			66.67		P	15.0
5	☐			65.56		P	33.9
6	☐			80.00		P	11.0
7	☐			90.00		P	17.0
8	☐			78.89		P	17.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	797.28	0.0000	P	8.4
2	☐	1.000	0.948	22703.55	0.0012	P	1.7
3	☐	50.000	48.735	1106301.36	0.0588	P	0.8
4	☐	125.000	124.449	2777146.22	0.1501	P	0.7
5	☐	250.000	234.349	5452234.84	0.2826	P	1.3
6	☐	500.000	501.045	10567271.16	0.6042	A	0.4
7	☐	1000.000	1003.522	21081010.19	1.2101	A	0.9
8	☐			6410.16	0.0004	P	11.2

$$y = 0.0012 * x + 4.1944E-005$$

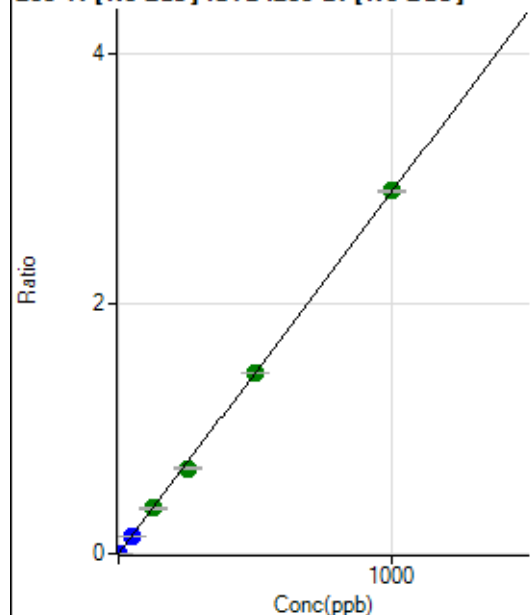
$$R = 0.9999$$

$$DL = 0.008751$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1611.27	0.0001	P	3.5
2	☐	1.000	0.945	53979.94	0.0028	P	1.0
3	☐	50.000	48.870	2661237.58	0.1415	P	0.4
4	☐	125.000	125.049	6694754.88	0.3619	A	0.6
5	☐	250.000	236.416	13195607.59	0.6840	A	1.7
6	☐	500.000	499.836	25297553.34	1.4461	A	0.5
7	☐	1000.000	1003.528	50577691.06	2.9033	A	0.7
8	☐			14769.97	0.0010	P	9.5

$$y = 0.0029 * x + 8.4726E-005$$

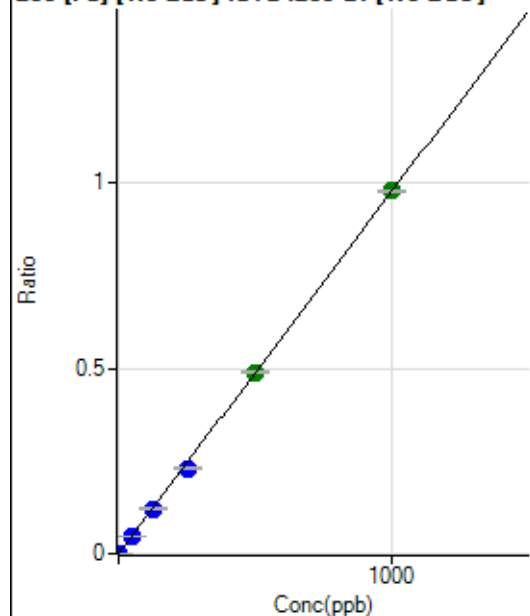
$$R = 0.9999$$

$$DL = 0.003035$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1124.16	0.0001	P	4.1
2	☐	1.000	0.940	18722.86	0.0010	P	1.9
3	☐	50.000	49.353	908072.07	0.0483	P	0.8
4	☐	125.000	124.676	2254342.05	0.1218	P	0.5
5	☐	250.000	235.667	4441826.05	0.2303	P	1.9
6	☐	500.000	501.373	8569173.92	0.4898	A	0.7
7	☐	1000.000	1002.970	17068948.30	0.9798	A	0.3
8	☐			10109.67	0.0007	P	2.3

$$y = 9.7684E-004 * x + 5.9117E-005$$

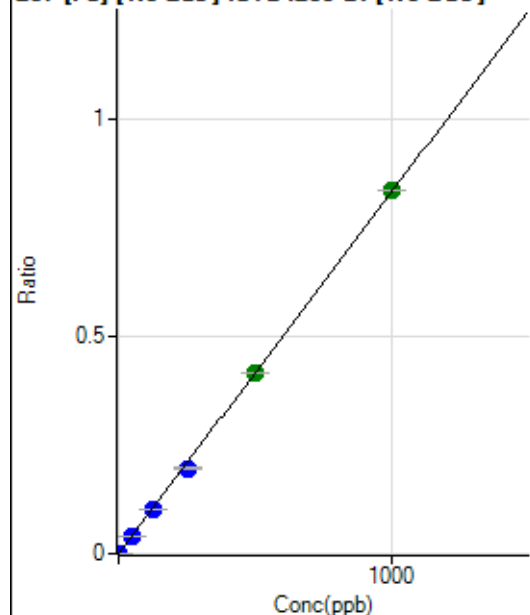
$$R = 0.9999$$

$$DL = 0.007419$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1107.49	0.0001	P	4.3
2	☐	1.000	0.943	16173.29	0.0008	P	2.1
3	☐	50.000	49.446	776272.89	0.0413	P	0.9
4	☐	125.000	124.050	1913676.21	0.1034	P	0.9
5	☐	250.000	235.761	3790452.58	0.1965	P	3.0
6	☐	500.000	500.490	7297190.44	0.4171	A	0.5
7	☐	1000.000	1003.461	14568775.56	0.8363	A	0.1
8	☐			8465.89	0.0006	P	4.7

$$y = 8.3334\text{E-}004 * x + 5.8264\text{E-}005$$

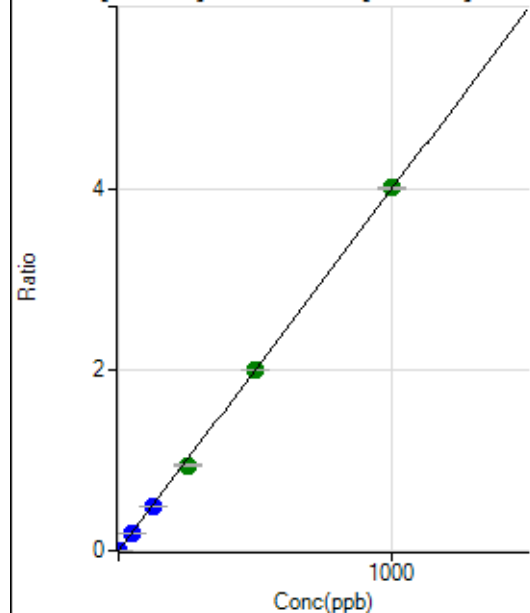
$$R = 0.9999$$

$$DL = 0.008955$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4458.74	0.0002	P	3.7
2	☐	1.000	0.935	75923.74	0.0040	P	1.0
3	☐	50.000	49.149	3692655.50	0.1963	P	0.6
4	☐	125.000	124.000	9155814.71	0.4949	P	0.9
5	☐	250.000	235.889	18154638.79	0.9412	A	2.3
6	☐	500.000	499.787	34879639.18	1.9939	A	0.4
7	☐	1000.000	1003.802	69759855.50	4.0044	A	0.3
8	☐			39489.24	0.0026	P	2.5

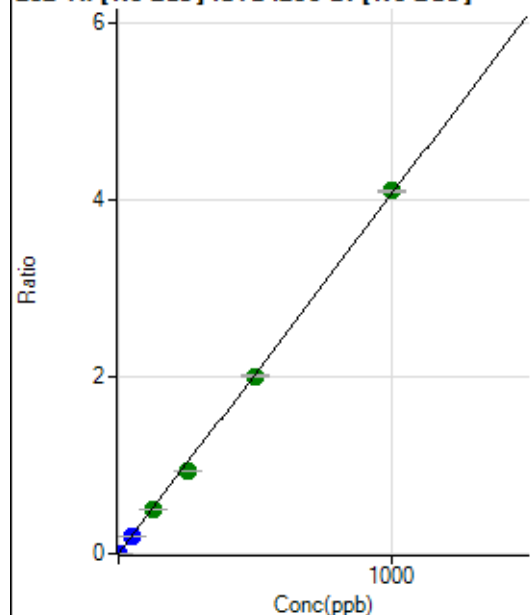
$$y = 0.0040 * x + 2.3451\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.006442$$

Weight: <None>

Min Conc: 0

²³²Th [No Gas] ISTD :²⁰⁹Pb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2289.16	0.0001	P	9.2
2	☐	1.000	0.785	63370.54	0.0033	P	1.4
3	☐	50.000	46.821	3581152.37	0.1904	P	0.2
4	☐	125.000	120.639	9071391.93	0.4903	A	0.3
5	☐	250.000	230.057	18034200.40	0.9349	A	2.0
6	☐	500.000	493.461	35068505.65	2.0052	A	0.5
7	☐	1000.000	1008.959	71421300.20	4.0998	A	0.7
8	☐			17877.69	0.0012	P	6.0

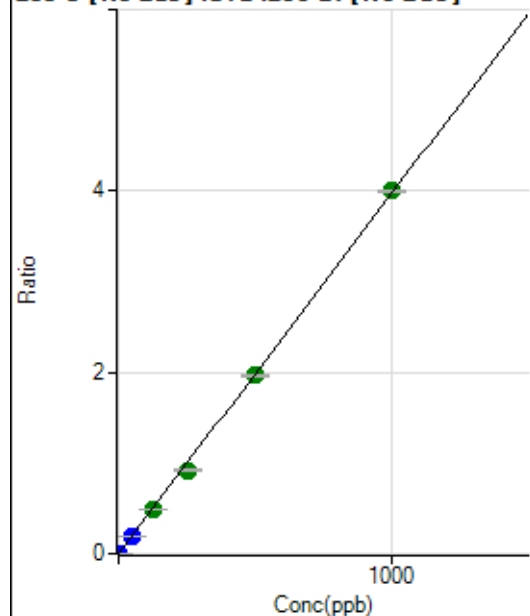
$$y = 0.0041 * x + 1.2035E-004$$

$$R = 0.9998$$

$$DL = 0.008187$$

Weight: <None>

Min Conc: 0

²³⁸U [No Gas] ISTD :²⁰⁹Pb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2194.74	0.0001	P	2.3
2	☐	1.000	0.874	68687.99	0.0036	P	1.7
3	☐	50.000	47.051	3516476.75	0.1869	P	0.1
4	☐	125.000	121.898	8956467.39	0.4841	A	0.2
5	☐	250.000	230.313	17640696.23	0.9146	A	2.4
6	☐	500.000	494.707	34358945.21	1.9643	A	0.5
7	☐	1000.000	1008.103	69729930.72	4.0027	A	0.7
8	☐			11227.62	0.0007	P	10.8

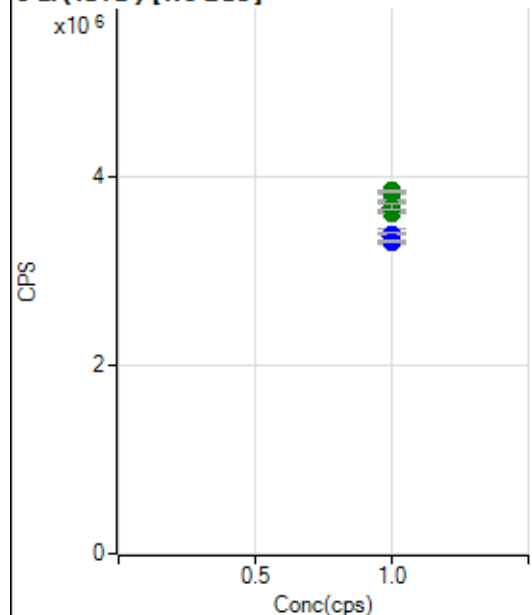
$$y = 0.0040 * x + 1.1545E-004$$

$$R = 0.9998$$

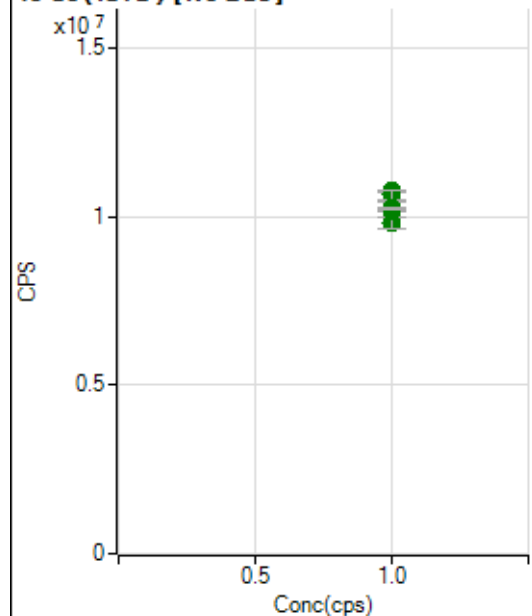
$$DL = 0.00205$$

Weight: <None>

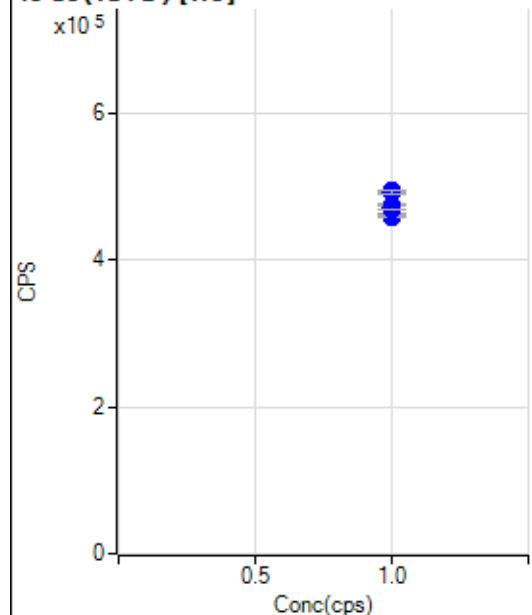
Min Conc: 0

6 Li (ISTD) [No Gas]

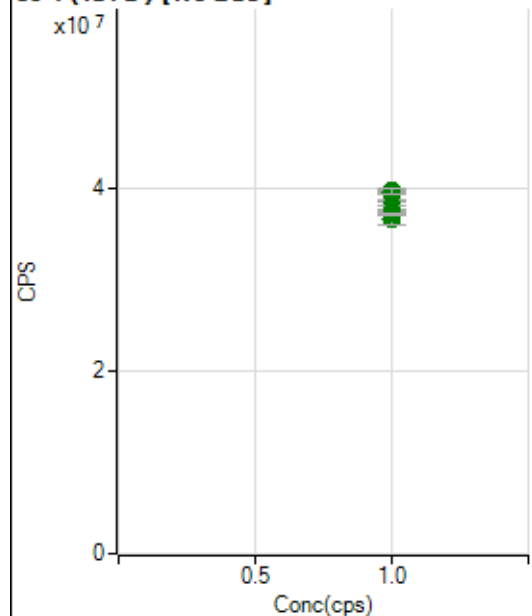
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3837678.14		A	0.7
2	☐	1.000		3858829.45		A	0.6
3	☐	1.000		3749277.58		A	0.7
4	☐	1.000		3625915.08		A	0.3
5	☐	1.000		3685424.13		A	1.6
6	☐	1.000		3365907.09		P	4.8
7	☐	1.000		3405276.36		P	0.3
8	☐	1.000		3322382.92		P	0.3

45 Sc (ISTD) [No Gas]

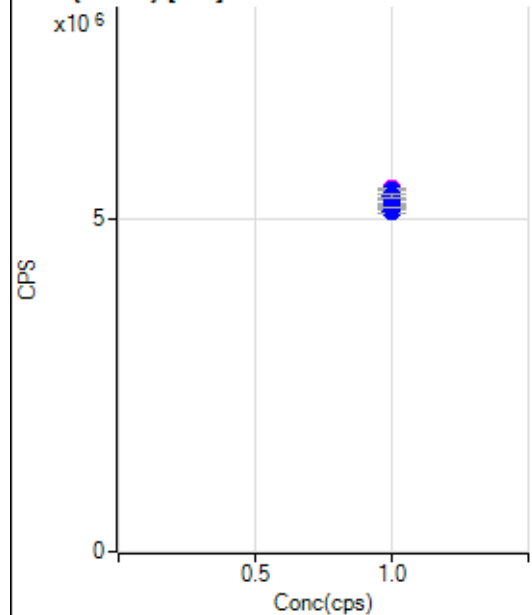
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10758903.45		A	0.3
2	☐	1.000		10709596.51		A	0.2
3	☐	1.000		10467953.27		A	0.7
4	☐	1.000		10206707.09		A	0.1
5	☐	1.000		10641481.92		A	2.5
6	☐	1.000		9811713.07		A	3.9
7	☐	1.000		10154314.72		A	0.1
8	☐	1.000		10238204.13		A	0.2

45 Sc (ISTD) [He]

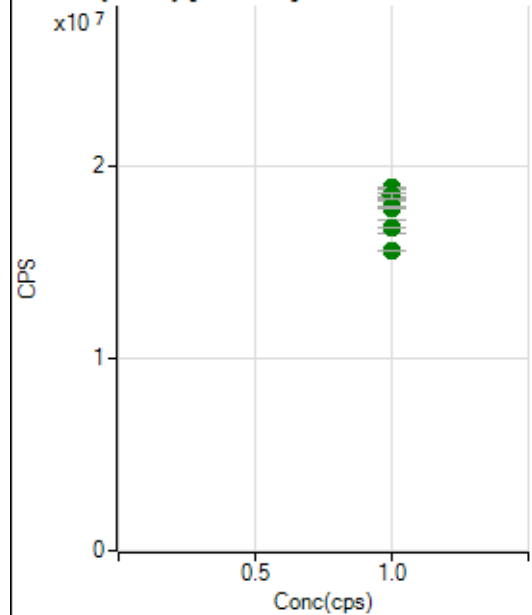
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		490615.50		P	0.9
2	☐	1.000		493455.03		P	0.3
3	☐	1.000		474486.44		P	0.6
4	☐	1.000		470707.51		P	1.2
5	☐	1.000		463246.25		P	0.2
6	☐	1.000		458995.77		P	0.6
7	☐	1.000		467891.38		P	0.4
8	☐	1.000		491272.90		P	1.2

89 Y (ISTD) [No Gas]

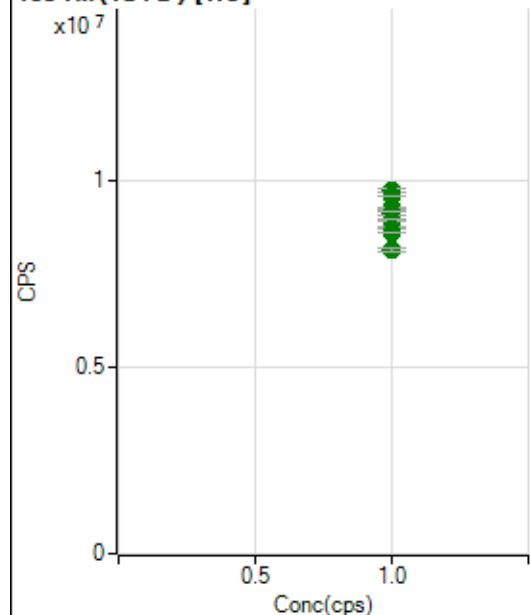
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		39652395.24		A	0.6
2	☐	1.000		39521019.69		A	0.4
3	☐	1.000		38548616.37		A	0.4
4	☐	1.000		38001985.54		A	0.3
5	☐	1.000		39572554.41		A	1.9
6	☐	1.000		36605982.23		A	3.4
7	☐	1.000		37495534.99		A	0.3
8	☐	1.000		37097670.28		A	0.3

89 Y(ISTD) [He]

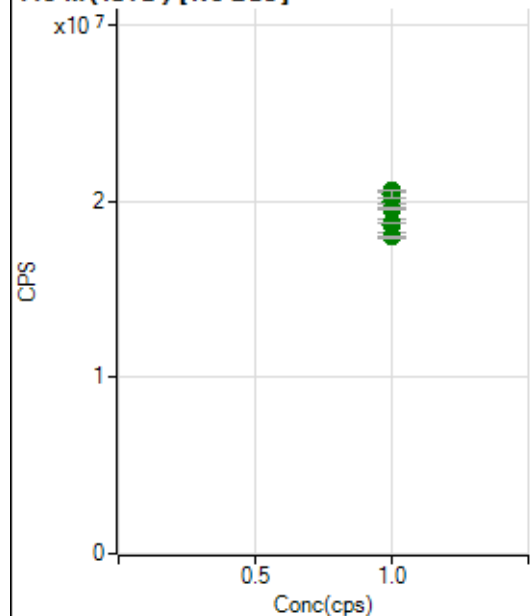
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5457552.70		M	0.4
2	☐	1.000		5450068.53		P	0.3
3	☐	1.000		5300106.14		P	0.3
4	☐	1.000		5216683.64		P	0.8
5	☐	1.000		5168481.07		P	0.5
6	☐	1.000		5131628.71		P	1.1
7	☐	1.000		5179973.99		P	0.4
8	☐	1.000		5344478.99		P	0.8

103 Rh(ISTD) [No Gas]

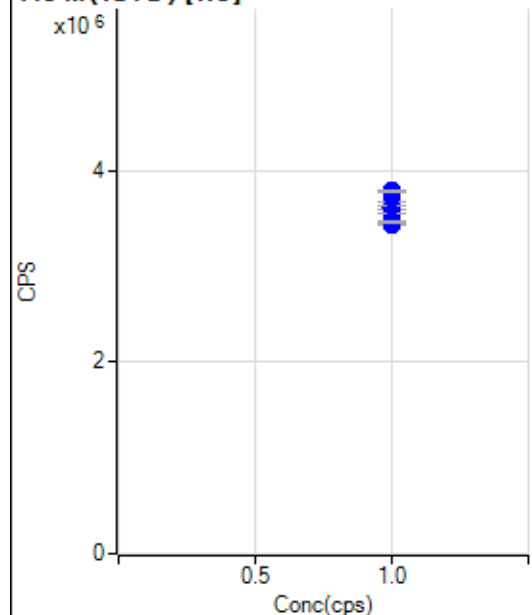
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18886668.13		A	0.1
2	☐	1.000		18911905.81		A	0.9
3	☐	1.000		18344189.12		A	0.9
4	☐	1.000		17869532.17		A	0.6
5	☐	1.000		18495511.18		A	1.9
6	☐	1.000		16881704.54		A	3.7
7	☐	1.000		16875892.22		A	0.1
8	☐	1.000		15646575.00		A	0.2

103 Rh (ISTD) [He]

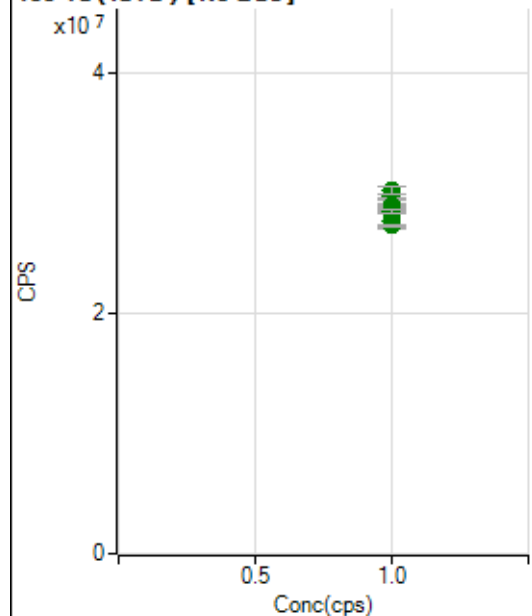
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		9734651.52		A	1.1
2	☐	1.000		9608921.52		A	0.2
3	☐	1.000		9277123.82		A	0.6
4	☐	1.000		9146268.96		A	1.2
5	☐	1.000		8941821.18		A	0.4
6	☐	1.000		8729195.08		A	0.5
7	☐	1.000		8620390.01		A	0.1
8	☐	1.000		8159041.96		A	1.2

115 In (ISTD) [No Gas]

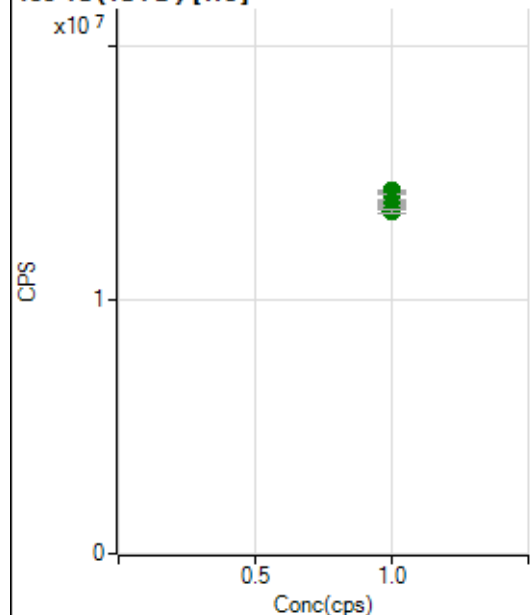
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		20584403.76		A	0.3
2	☐	1.000		20576202.88		A	0.1
3	☐	1.000		20016551.43		A	1.1
4	☐	1.000		19569777.11		A	0.3
5	☐	1.000		20380764.84		A	2.1
6	☐	1.000		18609195.83		A	3.8
7	☐	1.000		18773722.63		A	0.4
8	☐	1.000		17977492.30		A	0.4

115 In (ISTD) [He]

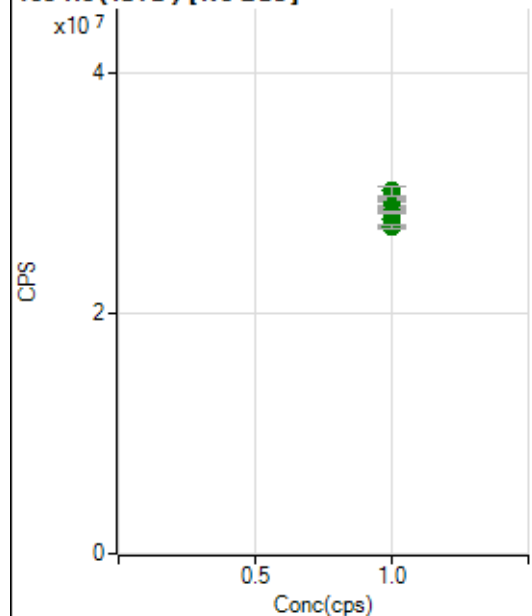
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3779663.50		P	0.5
2	☐	1.000		3788727.30		P	0.2
3	☐	1.000		3669229.10		P	0.2
4	☐	1.000		3616097.30		P	1.0
5	☐	1.000		3549664.99		P	0.2
6	☐	1.000		3475303.76		P	0.4
7	☐	1.000		3430303.67		P	0.0
8	☐	1.000		3463720.88		P	1.1

159 Tb (ISTD) [No Gas]

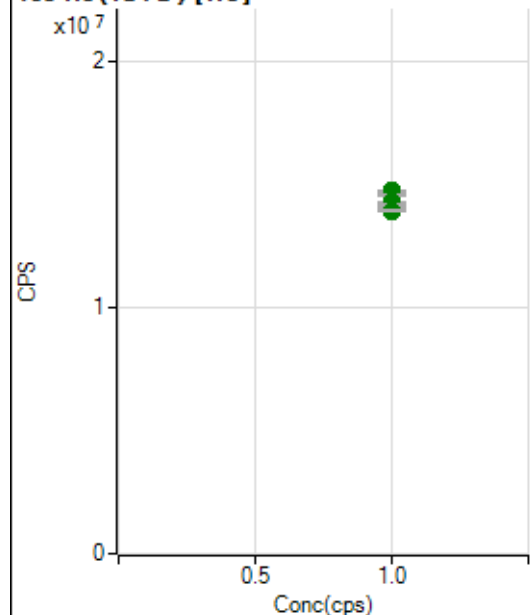
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		29773282.33		A	0.8
2	☐	1.000		29546129.01		A	0.5
3	☐	1.000		29051460.12		A	0.4
4	☐	1.000		28774164.85		A	0.1
5	☐	1.000		30208464.27		A	2.2
6	☐	1.000		27759247.36		A	5.3
7	☐	1.000		28471189.02		A	0.8
8	☐	1.000		27312687.09		A	0.7

159 Tb (ISTD) [He]

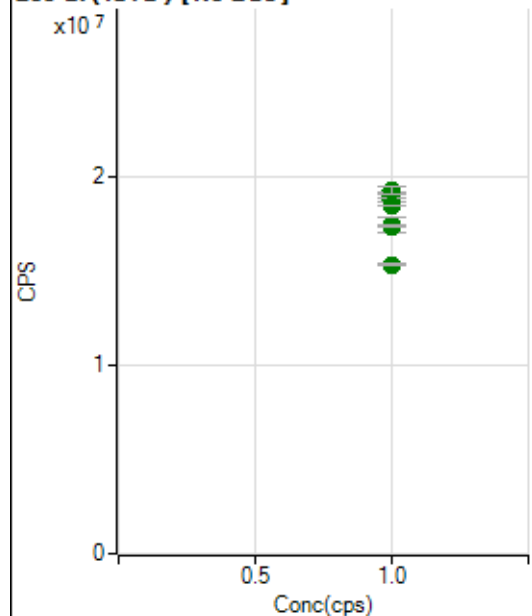
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		14317533.82		A	0.7
2	☐	1.000		14192140.20		A	0.4
3	☐	1.000		13890781.04		A	0.5
4	☐	1.000		13846265.63		A	1.2
5	☐	1.000		13760646.32		A	0.3
6	☐	1.000		13611054.24		A	0.7
7	☐	1.000		13700316.60		A	0.1
8	☐	1.000		13525839.52		A	1.1

165 Ho (ISTD) [No Gas]

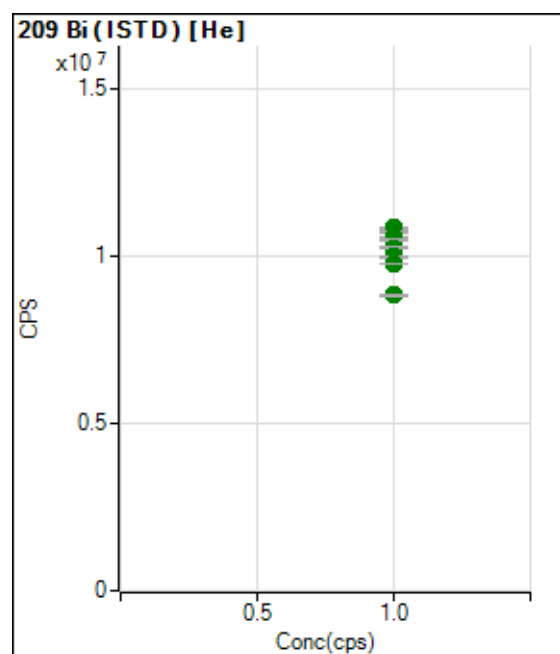
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		29398747.19		A	1.0
2	☐	1.000		29535057.95		A	0.6
3	☐	1.000		28795983.63		A	1.2
4	☐	1.000		28767113.49		A	0.2
5	☐	1.000		30202753.11		A	2.4
6	☐	1.000		27893337.77		A	4.7
7	☐	1.000		28409151.68		A	0.6
8	☐	1.000		27253897.48		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		14761118.39		A	0.8
2	☐	1.000		14593655.06		A	0.3
3	☐	1.000		14288732.84		A	0.5
4	☐	1.000		14267712.70		A	1.0
5	☐	1.000		14224043.81		A	0.3
6	☐	1.000		14056338.40		A	0.2
7	☐	1.000		14196504.09		A	0.1
8	☐	1.000		13955761.59		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		19013349.86		A	0.9
2	☐	1.000		19152654.44		A	0.7
3	☐	1.000		18812010.69		A	0.6
4	☐	1.000		18501141.25		A	0.4
5	☐	1.000		19294715.13		A	2.0
6	☐	1.000		17491194.74		A	4.2
7	☐	1.000		17420988.49		A	0.4
8	☐	1.000		15359494.63		A	0.9



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10858424.28		A	0.6
2	☐	1.000		10735121.09		A	0.7
3	☐	1.000		10570428.38		A	0.2
4	☐	1.000		10512940.05		A	0.5
5	☐	1.000		10259211.86		A	0.3
6	☐	1.000		9991647.84		A	0.9
7	☐	1.000		9801441.66		A	0.2
8	☐	1.000		8834846.54		A	0.8

US EPA Tune Check Sample Report

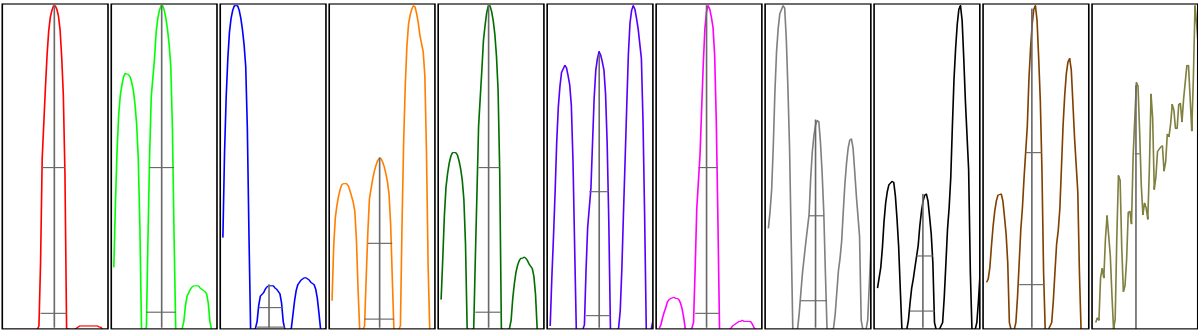
Batch Folder D:\ICP-MS Data\P7090119-ICPMS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	12682	1.26	5.00	
24	178838	1.59	5.00	
25	24143	1.63	5.00	
26	28581	1.37	5.00	
59	159121	1.44	5.00	
113	22992	1.33	5.00	
115	269527	1.36	5.00	
206	69838	1.55	5.00	
207	66475	1.36	5.00	
208	152346	1.73	5.00	
220	93	4.99		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	12786	12416	12686	12698	12825
24	180672	173819	179564	179629	180507
25	24316	23454	24186	24368	24393
26	28711	27920	28552	28865	28857
59	160238	155242	159184	159770	161169
113	23232	22475	22967	23104	23181
115	273868	263833	271007	269321	269605
206	70291	68000	69842	70267	70790
207	66840	64859	66864	66870	66941
208	153573	147821	152236	153868	154231
220	96	98	86	92	91

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	20615	9.00	8.9 - 9.1		0.784	0.900	
24	278295	23.95	23.9 - 24.1		0.833	0.900	
25	37619	24.90	24.9 - 25.1		0.823	0.900	
26	43956	25.95	25.9 - 26.1		0.833	0.900	
59	265204	58.95	58.9 - 59.1		0.784	0.900	
113	43401	113.00	112.9 - 113.1		0.735	0.900	
115	519840	114.95	114.9 - 115.1		0.734	0.900	
206	142143	205.95	205.9 - 206.1		0.747	0.900	
207	128477	206.90	206.9 - 207.1		0.713	0.900	
208	305712	207.90	207.9 - 208.1		0.743	0.900	
220	98	219.75	-				

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.8	V	Deflect	12.0	V
Extract 2	-165.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-90	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	45626	1.66	
89	56381	1.82	
205	66983	0.82	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	44898	45387	45383	45548	46912
89	55913	56013	55894	55876	58210
205	66902	66720	66681	66664	67948

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.3	V	Deflect	1.6	V
Extract 2	-155.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	V	Cell Exit	-60	V			

Cell Parameters

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