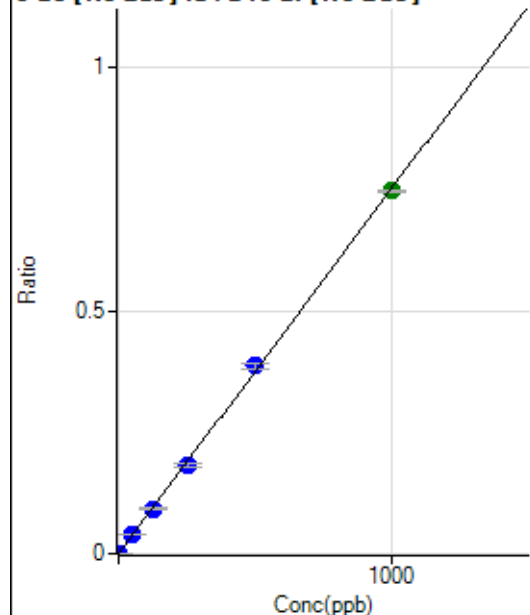


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8101121 MS.b\
Analysis File: P8101121 MS.batch.bin
DA Date-Time: 2021-10-11 16:45:03
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-10-11 14:21:06
2	007CAL.S.d	S02	2021-10-11 14:27:15
3	008CAL.S.d	S03	2021-10-11 14:30:20
4	009CAL.S.d	S04	2021-10-11 14:33:24
5	010CAL.S.d	S05	2021-10-11 14:36:29
6	011CAL.S.d	S06	2021-10-11 14:39:32
7	013CAL.S.d	S07	2021-10-11 14:45:42
8	014CAL.S.d	S08	2021-10-11 14:48:48

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.66	0.0000	P	27.6
2	☐	1.000	1.066	1831.76	0.0008	P	7.4
3	☐	50.000	51.542	86460.75	0.0387	P	3.7
4	☐	125.000	123.580	216334.34	0.0928	P	2.0
5	☐	250.000	241.813	431938.08	0.1815	P	5.1
6	☐	500.000	515.757	855735.08	0.3872	P	3.0
7	☐	1000.000	994.269	1708401.39	0.7463	A	0.6
8	☐			245.96	0.0001	P	3.4

$$y = 7.5062\text{E-}004 * x + 1.6894\text{E-}005$$

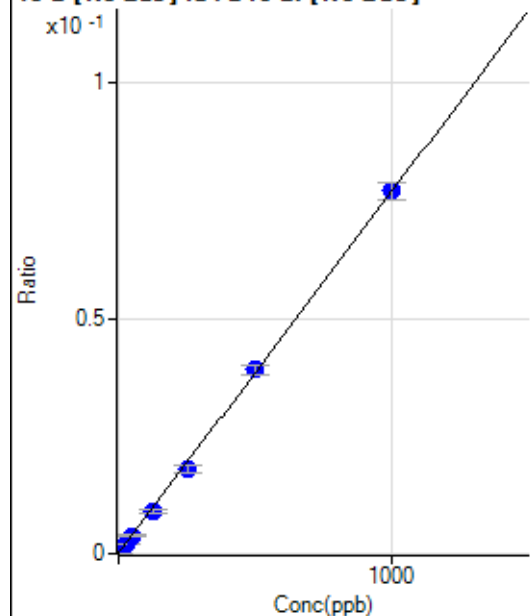
$$R = 0.9998$$

$$DL = 0.01861$$

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	245.29	0.0001	P	6.5
2	☐	25.000	24.506	4472.48	0.0020	P	5.1
3	☐	50.000	47.412	8380.10	0.0038	P	7.6
4	☐	125.000	116.031	21025.62	0.0090	P	6.7
5	☐	250.000	230.481	42317.36	0.0178	P	9.2
6	☐	500.000	507.815	86441.25	0.0391	P	5.6
7	☐	1000.000	1002.235	176328.40	0.0770	P	4.8
8	☐			19523.82	0.0087	P	10.9

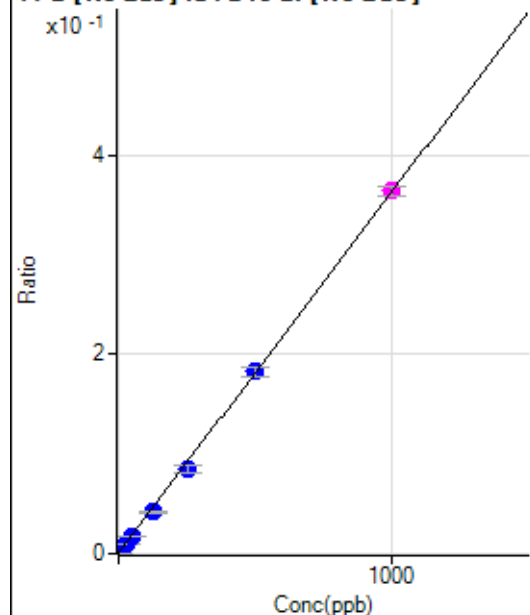
$$y = 7.6760\text{E-}005 * x + 1.1296\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.2857$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1070.50	0.0005	P	0.9
2	☐	25.000	24.854	21305.93	0.0095	P	6.3
3	☐	50.000	47.492	39565.44	0.0177	P	6.0
4	☐	125.000	113.902	97403.74	0.0418	P	4.8
5	☐	250.000	232.898	201884.97	0.0849	P	8.3
6	☐	500.000	502.917	404078.43	0.1828	P	5.0
7	☐	1000.000	1004.333	834437.25	0.3646	M	2.3
8	☐			93543.60	0.0417	P	10.4

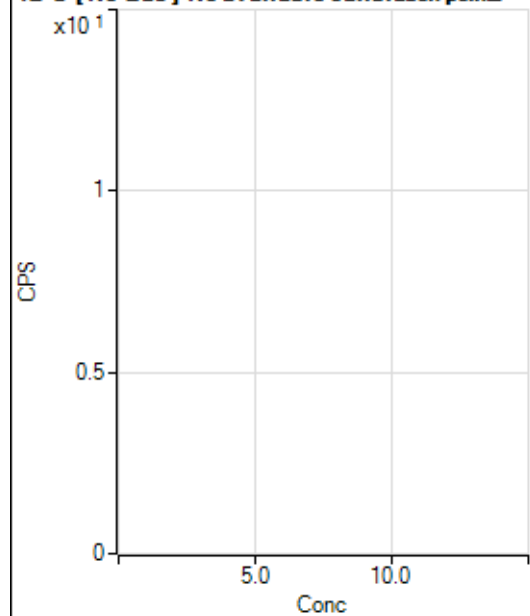
$$y = 3.6249E-004 * x + 4.9278E-004$$

$$R = 0.9998$$

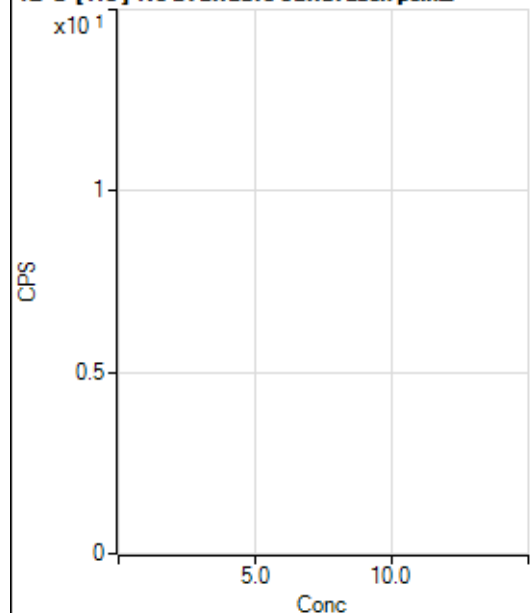
$$DL = 0.03715$$

Weight: <None>

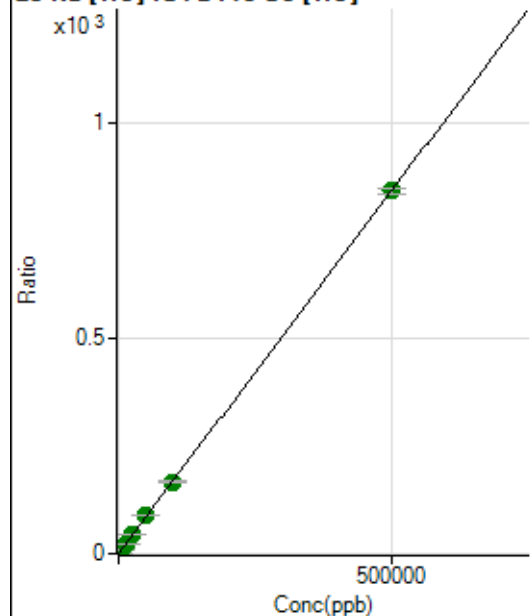
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3944593.66		A	0.3
2	☐			4102352.61		A	0.5
3	☐			4270612.85		A	1.1
4	☐			4372169.32		A	2.1
5	☐			4335527.14		A	2.9
6	☐			4620780.01		A	0.5
7	☐			4938111.79		A	0.5
8	☐			5265950.29		A	1.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46490.99		P	1.4
2	☐			48023.80		P	0.4
3	☐			50610.24		P	1.1
4	☐			51262.33		P	0.9
5	☐			52612.12		P	1.8
6	☐			57844.99		P	0.4
7	☐			61130.73		P	2.6
8	☐			72188.93		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20559.40	0.0981	P	2.2
2	☐	500.000	525.470	213004.95	0.9820	P	1.4
3	☐	5000.000	5240.633	1892464.58	8.9142	A	1.9
4	☐	12500.000	13133.833	4609450.36	22.1926	A	4.0
5	☐	25000.000	25675.819	9169790.05	43.2915	A	2.0
6	☐	50000.000	52104.773	18966580.29	87.7519	A	1.4
7	☐	100000.00	98612.215	37854577.24	165.9895	A	2.2
8	☐	500000.00	500015.01	188661918.1	841.2537	A	1.8

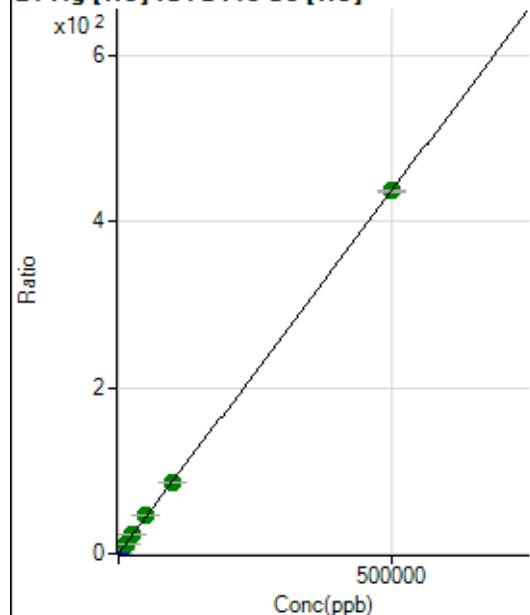
$$y = 0.0017 * x + 0.0981$$

$$R = 1.0000$$

$$DL = 3.889$$

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	613.92	0.0029	P	6.3
2	☐	500.000	522.860	99620.29	0.4592	P	0.8
3	☐	5000.000	5302.085	982999.50	4.6302	P	0.9
4	☐	12500.000	13637.273	2473134.58	11.9044	A	3.6
5	☐	25000.000	26150.931	4835148.07	22.8254	A	0.4
6	☐	50000.000	51885.777	9788174.09	45.2847	A	0.5
7	☐	100000.00	98326.721	19570436.03	85.8146	A	2.0
8	☐	500000.00	500057.05	97875222.33	436.4126	A	0.2

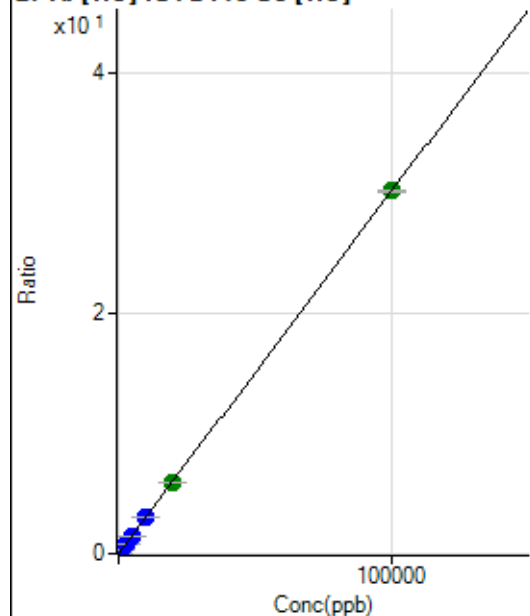
$$y = 8.7272\text{E-}004 * x + 0.0029$$

$$R = 1.0000$$

$$DL = 0.6342$$

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	127.07	0.0006	P	14.7
2	☐	20.000	22.152	1580.31	0.0073	P	3.8
3	☐	1000.000	1020.602	65481.98	0.3084	P	1.3
4	☐	2500.000	2578.422	161661.65	0.7783	P	3.7
5	☐	5000.000	4992.462	319092.31	1.5064	P	0.2
6	☐	10000.000	9994.898	651724.28	3.0152	P	0.5
7	☐	20000.000	19622.186	1349859.24	5.9189	A	1.9
8	☐	100000.00	100074.28	6769466.79	30.1841	A	0.3

$$y = 3.0161\text{E-}004 * x + 6.0592\text{E-}004$$

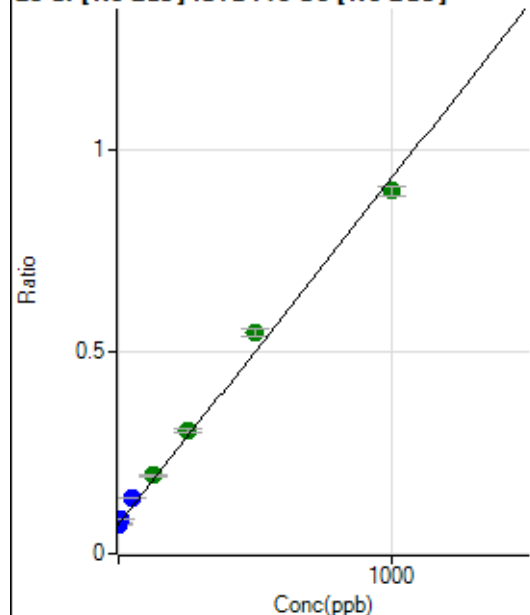
$$R = 1.0000$$

$$DL = 0.8852$$

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	453327.09	0.0727	P	2.8
2	☐	10.000	13.168	530390.06	0.0840	P	0.7
3	☐	50.000	75.828	867330.38	0.1376	P	0.6
4	☐	125.000	141.205	1227640.24	0.1936	A	3.0
5	☐	250.000	271.049	1956242.08	0.3048	A	3.1
6	☐	500.000	555.317	3520523.39	0.5481	A	3.7
7	☐	1000.000	963.731	5958933.16	0.8977	A	2.3
8	☐			1163675.25	0.1754	A	4.1

$$y = 8.5601E-004 * x + 0.0727$$

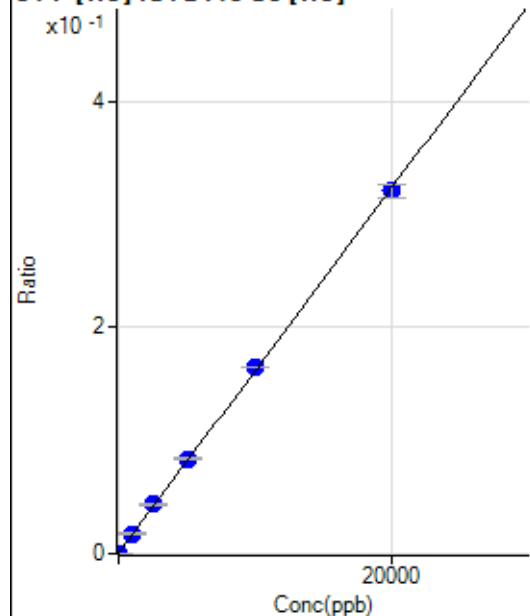
$$R = 0.9973$$

$$DL = 7.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	2.638	130.56	0.0006	P	18.6
2	☐	0.000	-2.638	116.67	0.0005	P	27.5
3	☐	1000.000	1061.722	3761.70	0.0177	P	2.5
4	☐	2500.000	2670.519	9078.07	0.0437	P	2.2
5	☐	5000.000	5145.078	17716.84	0.0836	P	1.5
6	☐	10000.000	10176.536	35636.07	0.1649	P	0.6
7	☐	20000.000	19851.062	73199.13	0.3210	P	3.9
8	☐			125.00	0.0006	P	34.9

$$y = 1.6143E-005 * x + 5.7948E-004$$

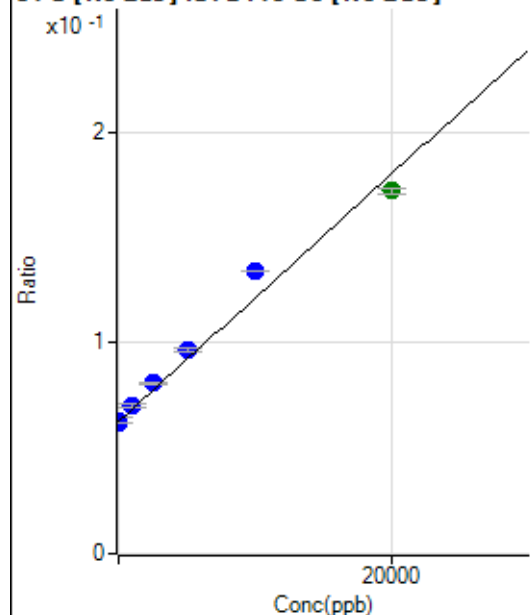
$$R = 0.9999$$

$$DL = 24.49$$

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	90.897	393559.24	0.0632	P	3.9
2	☐	0.000	-90.897	392013.67	0.0621	P	0.7
3	☐	1000.000	1302.289	442627.10	0.0703	P	3.0
4	☐	2500.000	3100.112	512545.24	0.0808	P	1.3
5	☐	5000.000	5854.444	622484.38	0.0970	P	2.0
6	☐	10000.000	12159.012	861104.07	0.1340	P	0.2
7	☐	20000.000	18616.754	1141658.08	0.1720	A	1.9
8	☐			358205.60	0.0540	P	0.6

$$y = 5.8731E-006 * x + 0.0626$$

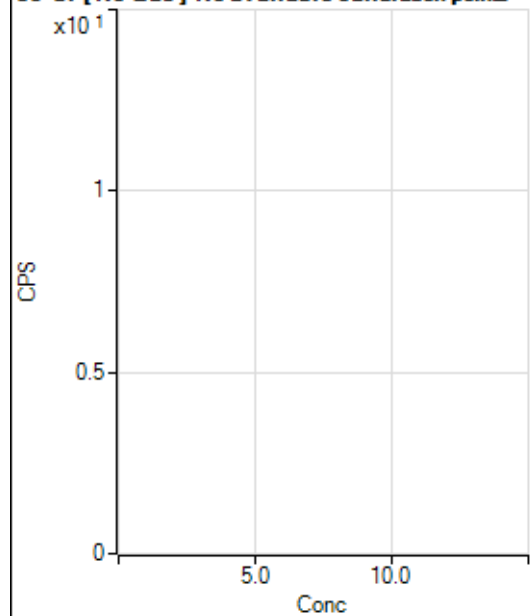
R = 0.9895

DL = 731

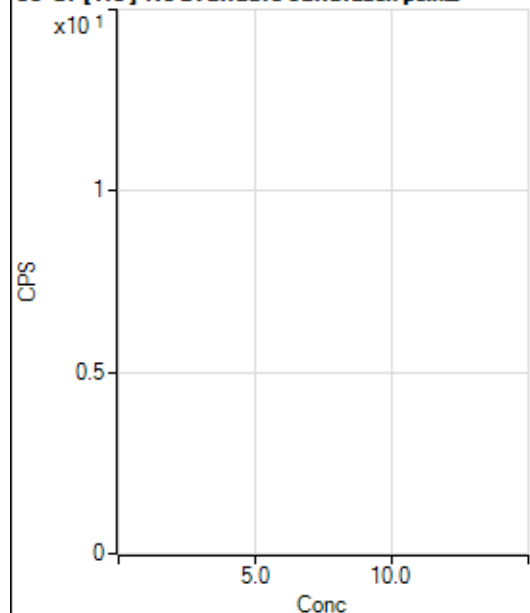
Weight: <None>

Min Conc: 0

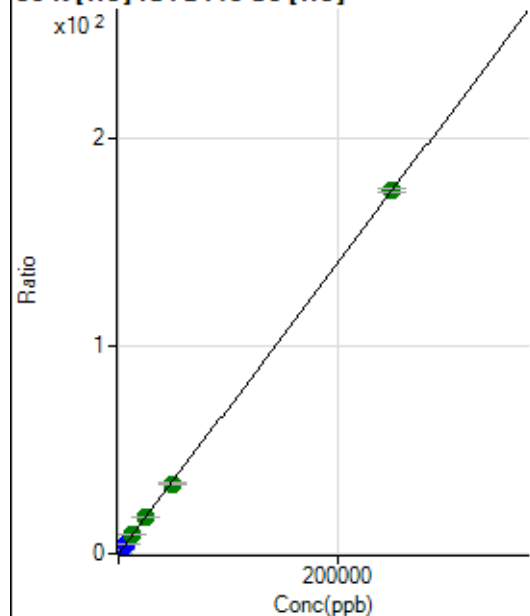
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1239722.16		A	2.6
2	☐			1191054.97		A	1.5
3	☐			1110984.51		P	1.4
4	☐			1052009.44		P	1.7
5	☐			1000171.69		P	1.5
6	☐			991280.26		P	0.5
7	☐			997948.89		P	1.0
8	☐			934550.33		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8441.53		P	0.8
2	☐			8388.75		P	5.6
3	☐			7735.62		P	2.0
4	☐			7188.10		P	3.3
5	☐			7143.65		P	5.1
6	☐			6729.54		P	1.9
7	☐			6723.98		P	1.1
8	☐			6676.71		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18720.90	0.0893	P	1.1
2	☐	500.000	499.013	95001.12	0.4380	P	0.6
3	☐	2500.000	2556.972	398262.98	1.8759	P	1.5
4	☐	6250.000	6465.679	957157.68	4.6070	P	2.5
5	☐	12500.000	12759.343	1907374.98	9.0045	A	0.5
6	☐	25000.000	25106.782	3811145.53	17.6319	A	1.1
7	☐	50000.000	48205.209	7702292.53	33.7713	A	1.5
8	☐	250000.00	250329.35	39247351.22	174.9996	A	1.0

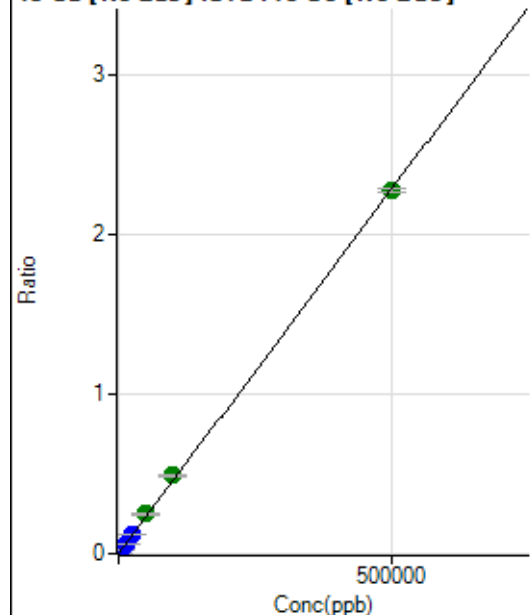
$$y = 6.9872E-004 * x + 0.0893$$

$$R = 1.0000$$

$$DL = 4.403$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	580.36	0.0001	P	7.2
2	☐	500.000	525.728	15742.89	0.0025	P	1.7
3	☐	5000.000	5326.715	153800.92	0.0244	P	2.3
4	☐	12500.000	13211.735	383121.26	0.0604	P	0.8
5	☐	25000.000	26253.573	769830.38	0.1200	P	1.9
6	☐	50000.000	54554.686	1600678.34	0.2492	A	2.3
7	☐	100000.00	107569.26	3260935.02	0.4913	A	3.3
8	☐	500000.00	497946.91	15084450.61	2.2737	A	1.1

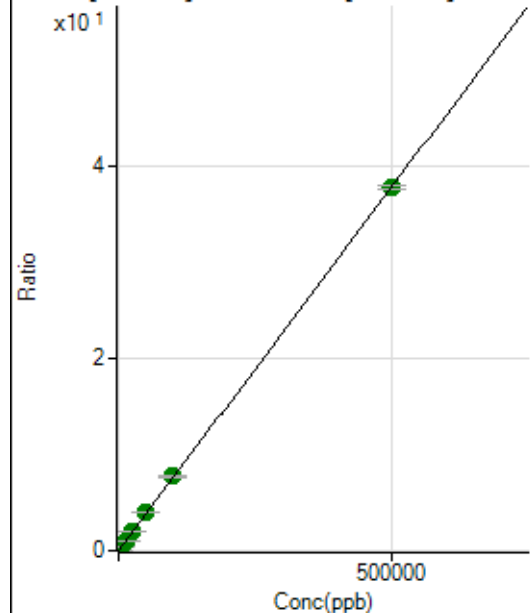
$$y = 4.5660\text{E-}006 * x + 9.2938\text{E-}005$$

$$R = 0.9999$$

$$DL = 4.386$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	46996.80	0.0075	P	3.9
2	☐	500.000	511.711	292269.48	0.0463	P	0.7
3	☐	5000.000	5315.020	2583027.70	0.4100	A	2.1
4	☐	12500.000	13020.610	6299705.93	0.9935	A	2.3
5	☐	25000.000	25901.064	12639311.98	1.9689	A	1.1
6	☐	50000.000	52584.150	25628233.80	3.9895	A	1.7
7	☐	100000.00	102369.24	51510341.71	7.7595	A	1.8
8	☐	500000.00	499206.50	250839317.1	37.8099	A	1.2

$$y = 7.5725\text{E-}005 * x + 0.0075$$

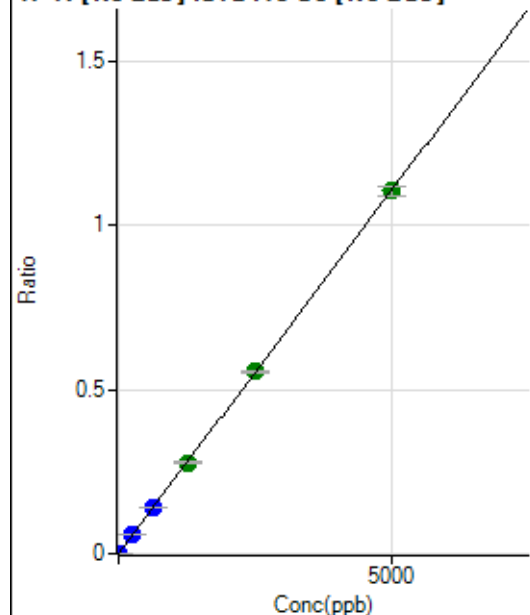
$$R = 1.0000$$

$$DL = 11.77$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	283.35	0.0000	P	6.3
2	☐	5.000	5.216	7579.96	0.0012	P	3.6
3	☐	250.000	254.783	355728.98	0.0565	P	2.7
4	☐	625.000	635.973	893421.54	0.1409	P	1.2
5	☐	1250.000	1255.433	1784146.50	0.2781	A	3.2
6	☐	2500.000	2503.527	3562271.83	0.5545	A	0.9
7	☐	5000.000	4995.267	7345073.69	1.1064	A	2.5
8	☐			1302.87	0.0002	P	8.5

$$y = 2.2147E-004 * x + 4.5454E-005$$

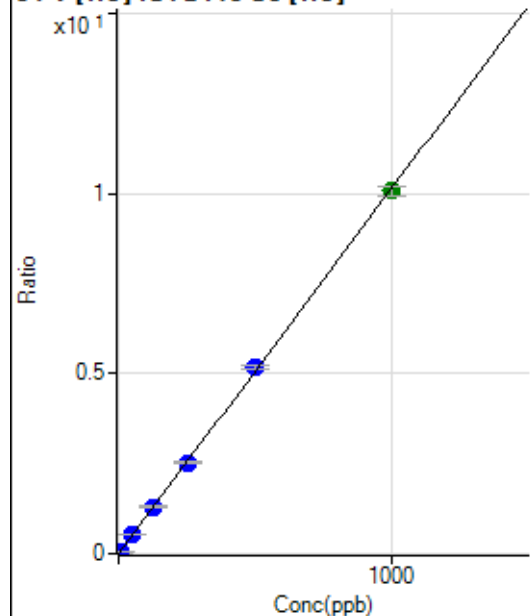
$$R = 1.0000$$

$$DL = 0.0385$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.55	0.0001	P	44.7
2	☐	5.000	5.352	11796.05	0.0544	P	1.1
3	☐	50.000	50.780	109400.84	0.5153	P	1.0
4	☐	125.000	128.047	269878.33	1.2993	P	3.6
5	☐	250.000	249.989	537285.04	2.5365	P	0.8
6	☐	500.000	511.650	1122071.10	5.1915	P	1.5
7	☐	1000.000	993.756	2299345.31	10.0831	A	2.5
8	☐			380.01	0.0017	P	5.0

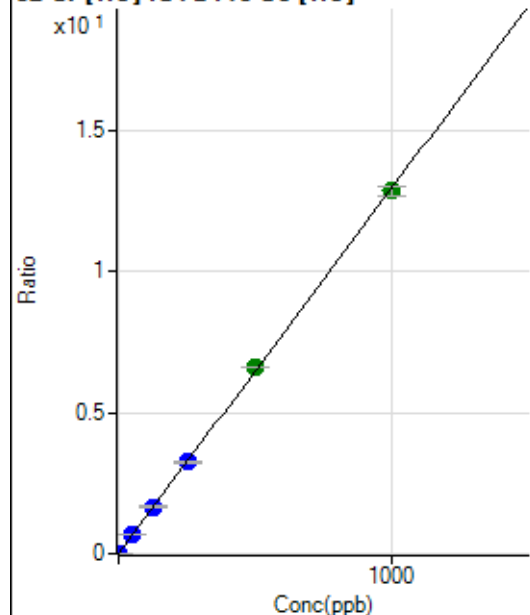
$$y = 0.0101 * x + 7.4234E-005$$

$$R = 0.9999$$

$$DL = 0.009809$$

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	1065.61	0.0051	P	0.1
2	☐	2.000	2.121	7054.02	0.0325	P	2.4
3	☐	50.000	50.479	139743.82	0.6582	P	1.2
4	☐	125.000	126.895	342074.26	1.6470	P	4.0
5	☐	250.000	250.323	687152.16	3.2440	P	0.5
6	☐	500.000	512.363	1434051.33	6.6345	A	0.3
7	☐	1000.000	993.477	2932498.05	12.8596	A	2.5
8	☐			9963.54	0.0444	P	0.8

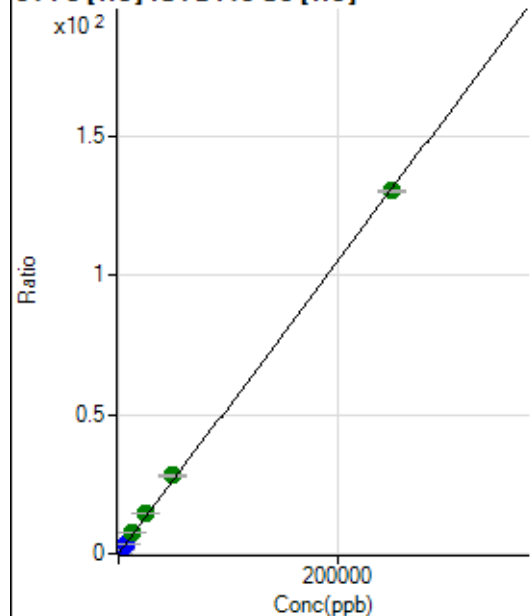
$$y = 0.0129 * x + 0.0051$$

$$R = 0.9999$$

$$DL = 0.001509$$

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	753.74	0.0036	P	4.1
2	☐	50.000	57.611	7326.10	0.0338	P	2.6
3	☐	2500.000	2774.333	309320.52	1.4570	P	1.2
4	☐	6250.000	6949.402	757012.09	3.6441	P	3.1
5	☐	12500.000	14235.393	1580312.84	7.4610	A	1.2
6	☐	25000.000	27920.787	3162342.17	14.6302	A	0.3
7	☐	50000.000	53820.859	6429726.47	28.1982	A	3.1
8	☐	250000.00	248836.75	29235715.24	130.3593	A	0.7

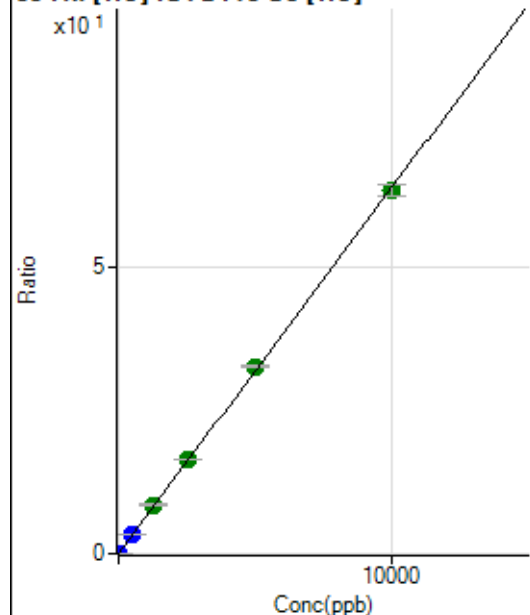
$$y = 5.2386E-004 * x + 0.0036$$

$$R = 0.9998$$

$$DL = 0.8357$$

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	145.56	0.0007	P	2.7
2	☐	1.000	1.021	1566.77	0.0072	P	10.1
3	☐	500.000	509.568	692106.69	3.2600	P	0.4
4	☐	1250.000	1331.549	1769055.98	8.5176	A	4.0
5	☐	2500.000	2574.837	3488344.91	16.4699	A	1.6
6	☐	5000.000	5103.955	7056552.53	32.6466	A	0.9
7	☐	10000.000	9918.641	14466054.79	63.4423	A	3.1
8	☐			17456.31	0.0778	P	0.9

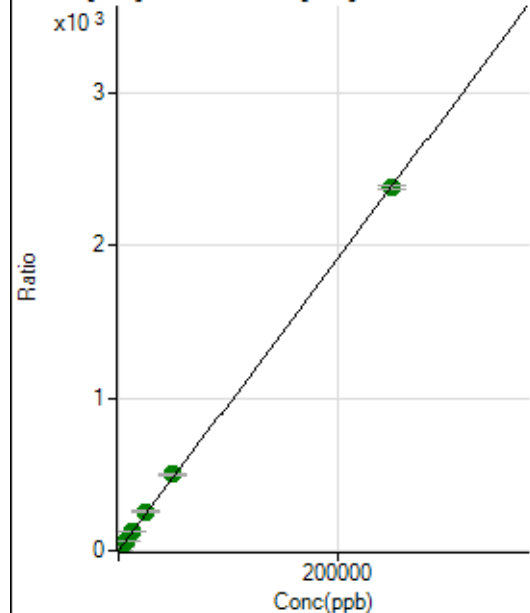
$$y = 0.0064 * x + 6.9415E-004$$

$$R = 0.9999$$

$$DL = 0.008661$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6612.76	0.0315	P	3.9
2	☐	50.000	56.686	124150.00	0.5724	P	2.0
3	☐	2500.000	2772.349	5622436.76	26.4828	A	2.0
4	☐	6250.000	7005.678	13893336.42	66.8734	A	2.8
5	☐	12500.000	13656.086	27605050.62	130.3257	A	1.2
6	☐	25000.000	27051.129	55794470.69	258.1292	A	1.5
7	☐	50000.000	52528.753	114285727.5	501.2139	A	3.1
8	☐	250000.00	249209.71	533256315.6	2.377.767	A	0.9

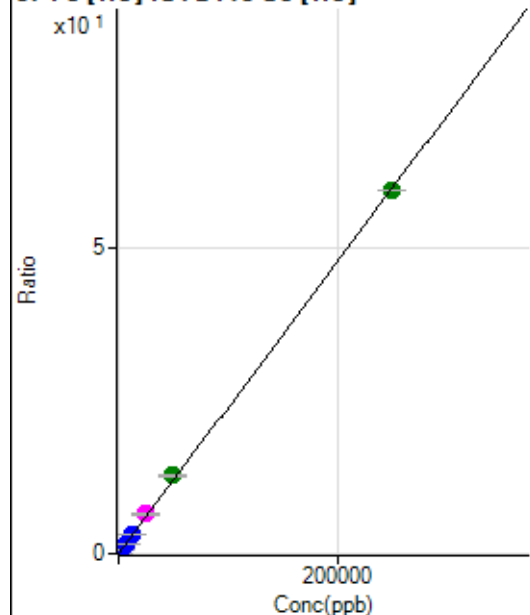
$$y = 0.0095 * x + 0.0315$$

$$R = 0.9999$$

$$DL = 0.3849$$

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	175.93	0.0008	P	23.7
2	☐	50.000	54.265	2996.66	0.0138	P	3.1
3	☐	2500.000	2749.026	139686.99	0.6580	P	0.9
4	☐	6250.000	6925.394	344006.63	1.6563	P	4.1
5	☐	12500.000	13466.076	682003.08	3.2197	P	0.9
6	☐	25000.000	27269.277	1409029.55	6.5192	M	3.2
7	☐	50000.000	53912.292	2939199.02	12.8879	A	1.9
8	☐	250000.00	248922.93	13344886.76	59.5029	A	0.1

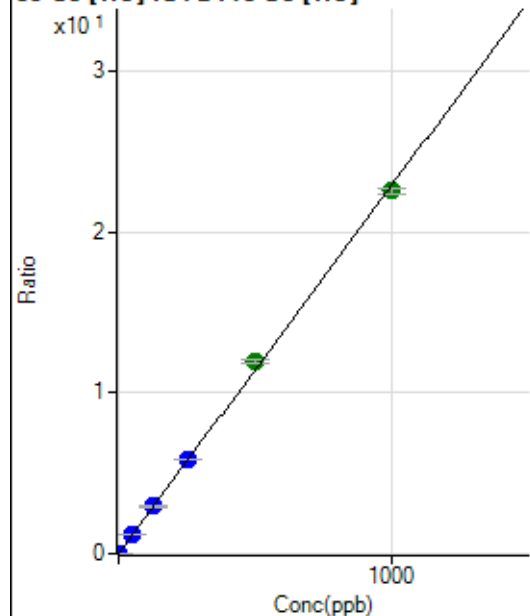
$$y = 2.3904\text{E-}004 * x + 8.4017\text{E-}004$$

$$R = 0.9998$$

$$DL = 2.498$$

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	85.56	0.0004	P	2.4
2	☐	1.000	1.065	5366.62	0.0247	P	5.1
3	☐	50.000	51.795	251384.10	1.1841	P	0.6
4	☐	125.000	130.109	617713.64	2.9738	P	3.4
5	☐	250.000	255.032	1234637.74	5.8286	P	0.6
6	☐	500.000	524.260	2589567.34	11.9812	A	2.0
7	☐	1000.000	985.884	5139050.06	22.5306	A	1.8
8	☐			11584.81	0.0517	P	0.7

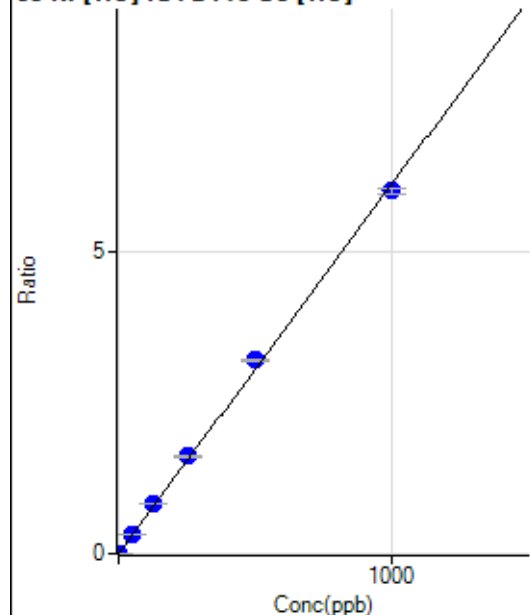
$$y = 0.0229 * x + 4.0810\text{E-}004$$

$$R = 0.9995$$

$$DL = 0.001295$$

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	138.89	0.0007	P	17.4
2	☐	1.000	1.188	1722.35	0.0079	P	0.5
3	☐	50.000	54.108	70491.28	0.3320	P	0.7
4	☐	125.000	135.600	172638.64	0.8311	P	3.4
5	☐	250.000	263.405	341843.78	1.6138	P	0.5
6	☐	500.000	523.941	693674.42	3.2094	P	1.4
7	☐	1000.000	983.148	1373357.92	6.0217	P	1.6
8	☐			5064.28	0.0226	P	2.9

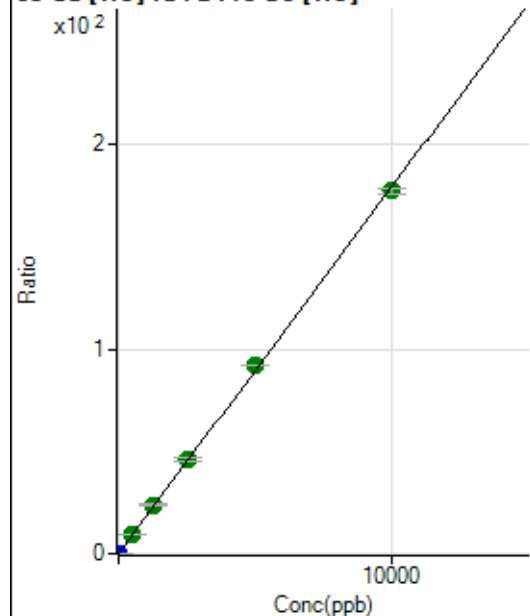
$$y = 0.0061 * x + 6.6288E-004$$

$$R = 0.9994$$

$$DL = 0.05662$$

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	931.15	0.0044	P	1.9
2	☐	2.000	1.940	8509.28	0.0392	P	3.1
3	☐	500.000	541.431	2062446.15	9.7147	A	0.3
4	☐	1250.000	1326.566	4942736.25	23.7956	A	3.7
5	☐	2500.000	2571.830	9769896.04	46.1287	A	2.1
6	☐	5000.000	5139.898	19925813.18	92.1855	A	0.7
7	☐	10000.000	9900.451	40497192.73	177.5633	A	1.6
8	☐			10727.48	0.0478	P	2.6

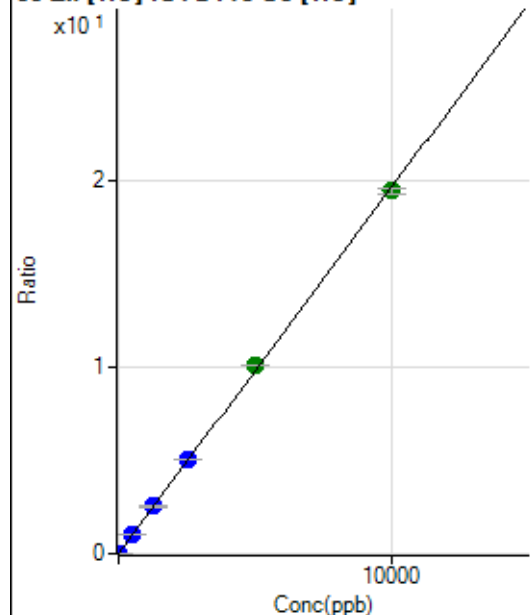
$$y = 0.0179 * x + 0.0044$$

$$R = 0.9998$$

$$DL = 0.01408$$

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	727.81	0.0035	P	13.4
2	☐	2.000	2.174	1680.12	0.0077	P	6.7
3	☐	500.000	528.087	221011.53	1.0410	P	1.7
4	☐	1250.000	1309.513	535078.13	2.5763	P	4.1
5	☐	2500.000	2564.734	1068040.71	5.0424	P	0.9
6	☐	5000.000	5140.363	2183749.76	10.1027	A	0.3
7	☐	10000.000	9904.792	4439080.84	19.4633	A	1.7
8	☐			10952.11	0.0488	P	3.3

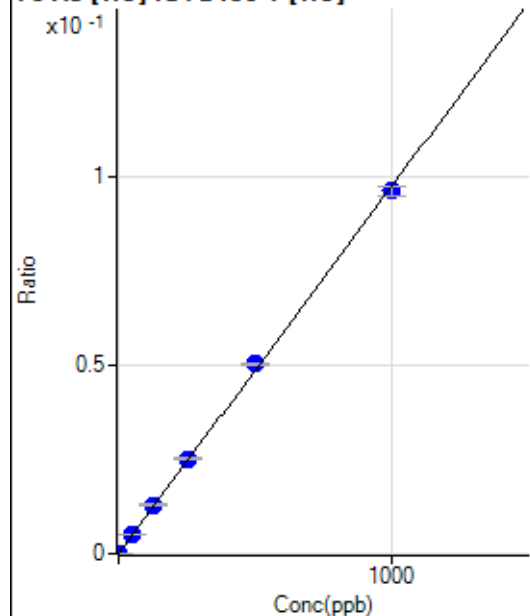
$$y = 0.0020 * x + 0.0035$$

$$R = 0.9998$$

$$DL = 0.7079$$

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	16.33	0.0000	P	16.2
2	☐	1.000	1.078	290.36	0.0001	P	1.9
3	☐	50.000	52.372	13020.96	0.0051	P	2.2
4	☐	125.000	133.384	32236.79	0.0130	P	4.5
5	☐	250.000	258.701	64017.67	0.0252	P	1.4
6	☐	500.000	516.406	131598.35	0.0503	P	1.3
7	☐	1000.000	988.455	264059.69	0.0963	P	2.7
8	☐			97.34	0.0000	P	17.8

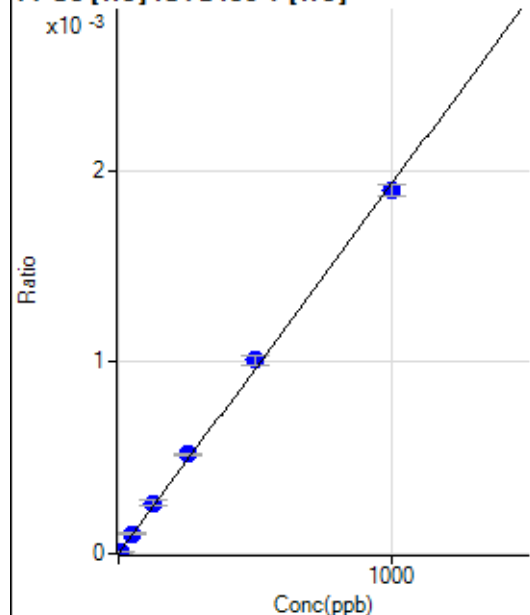
$$y = 9.7404E-005 * x + 6.4682E-006$$

$$R = 0.9997$$

$$DL = 0.03228$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.077	26.67	0.0000	P	24.5
3	☐	50.000	53.290	263.34	0.0001	P	11.4
4	☐	125.000	136.617	654.47	0.0003	P	10.7
5	☐	250.000	268.075	1315.63	0.0005	P	2.8
6	☐	500.000	524.405	2649.16	0.0010	P	4.9
7	☐	1000.000	981.662	5198.79	0.0019	P	3.3
8	☐			1.11	0.0000	P	173.

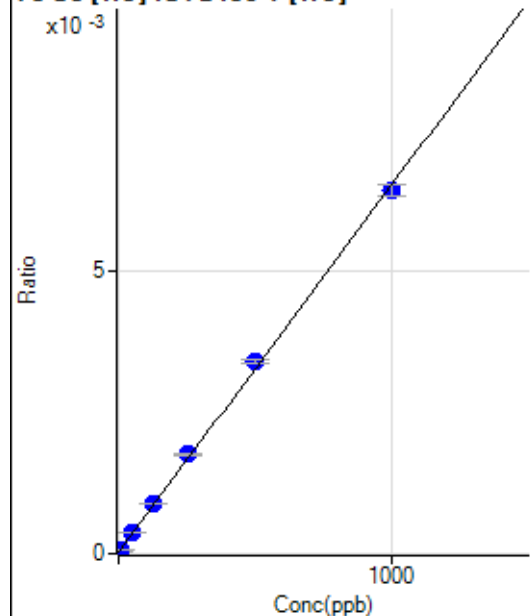
$$y = 1.9309\text{E-}006 * x + 4.2956\text{E-}007$$

$$R = 0.9993$$

$$DL = 1.156$$

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	66.34	0.0000	P	14.2
2	☐	5.000	5.057	153.69	0.0001	P	1.1
3	☐	50.000	53.966	957.47	0.0004	P	4.1
4	☐	125.000	132.608	2195.07	0.0009	P	2.8
5	☐	250.000	265.806	4437.82	0.0017	P	2.0
6	☐	500.000	521.149	8895.04	0.0034	P	2.2
7	☐	1000.000	984.324	17545.65	0.0064	P	3.3
8	☐			79.68	0.0000	P	17.0

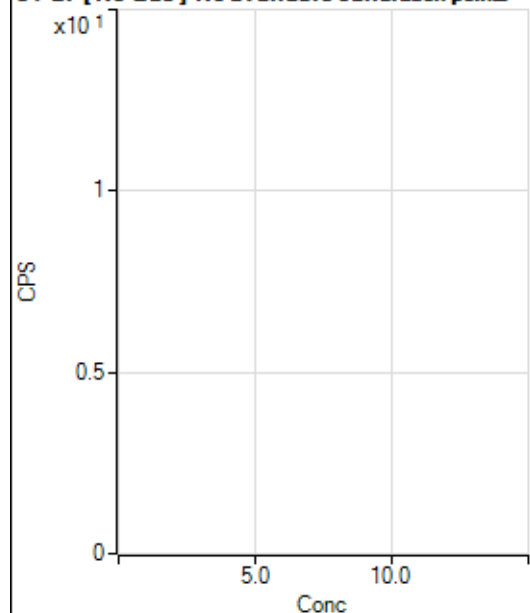
$$y = 6.4736\text{E-}006 * x + 2.6293\text{E-}005$$

$$R = 0.9995$$

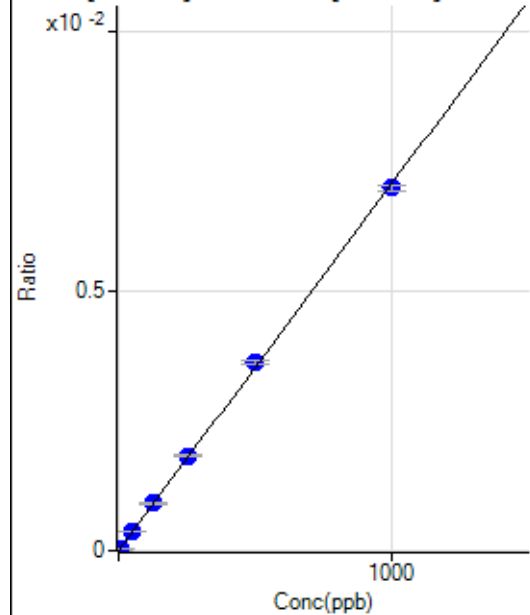
$$DL = 1.731$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18013.62		P	2.4
2	☐			17976.75		P	5.7
3	☐			17843.23		P	1.4
4	☐			17084.73		P	0.7
5	☐			17325.36		P	1.4
6	☐			17726.28		P	3.0
7	☐			18193.92		P	2.8
8	☐			18862.19		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-16.01	0.0000	P	-49.
2	☐	5.000	5.817	836.29	0.0000	P	18.4
3	☐	50.000	52.682	7583.39	0.0004	P	2.1
4	☐	125.000	128.839	18945.12	0.0009	P	0.9
5	☐	250.000	258.982	38198.57	0.0018	P	2.3
6	☐	500.000	515.605	76378.69	0.0036	P	1.8
7	☐	1000.000	989.334	153088.83	0.0070	P	1.6
8	☐			136.00	0.0000	P	41.1

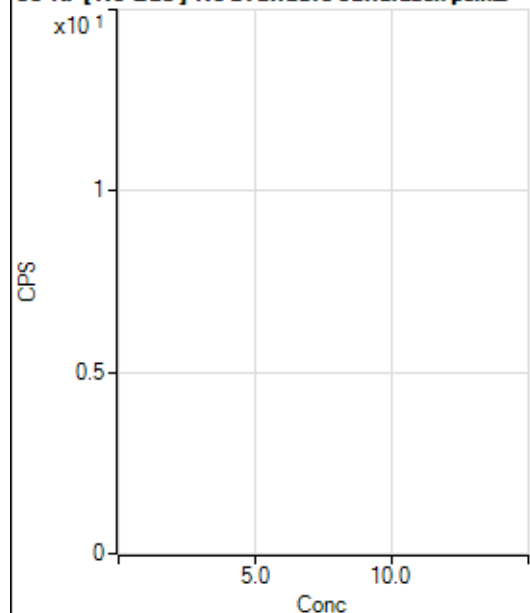
$$y = 7.0571\text{E-}006 * x - 7.7128\text{E-}007$$

$$R = 0.9998$$

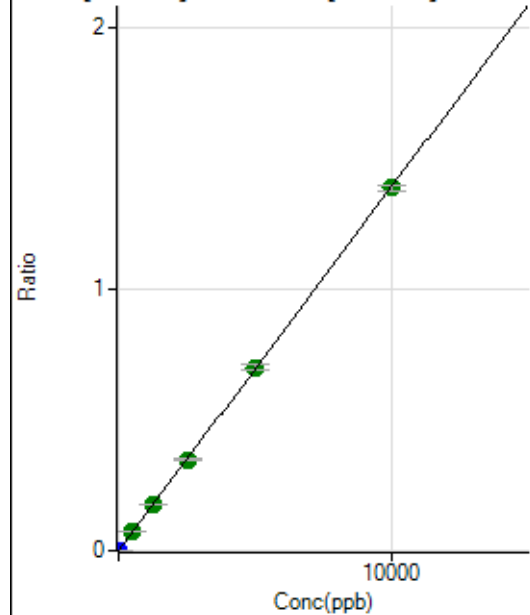
$$DL = 0.1614$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			908.93		P	1.2
2	☐			806.70		P	17.0
3	☐			871.15		P	5.4
4	☐			812.25		P	3.2
5	☐			882.26		P	3.3
6	☐			854.48		P	5.3
7	☐			892.26		P	4.9
8	☐			937.82		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1444.56	0.0001	P	7.5
2	☐	1.000	1.194	4878.78	0.0002	P	10.2
3	☐	500.000	523.182	1489445.19	0.0729	A	2.3
4	☐	1250.000	1268.753	3683737.49	0.1766	A	1.1
5	☐	2500.000	2508.516	7301069.17	0.3491	A	1.7
6	☐	5000.000	5045.693	14741405.19	0.7022	A	3.0
7	☐	10000.000	9971.522	30432656.93	1.3877	A	1.6
8	☐			23968.43	0.0011	P	5.5

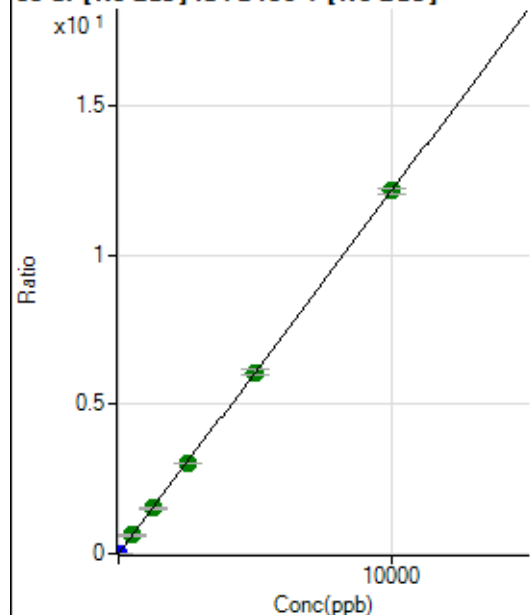
$$y = 1.3916E-004 * x + 6.9742E-005$$

$$R = 1.0000$$

$$DL = 0.1123$$

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	572.25	0.0000	P	6.6
2	☐	1.000	1.147	29423.28	0.0014	P	1.8
3	☐	500.000	503.865	12499296.98	0.6115	A	1.0
4	☐	1250.000	1252.889	31707386.47	1.5205	A	1.4
5	☐	2500.000	2482.304	63002283.35	3.0125	A	1.4
6	☐	5000.000	5006.861	127570011.1	6.0762	A	2.6
7	☐	10000.000	10000.439	266132794.8	12.1362	A	1.5
8	☐			194264.19	0.0090	P	0.4

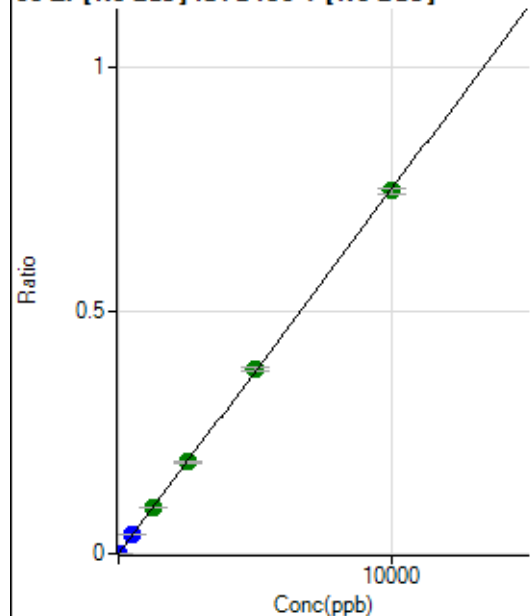
$$y = 0.0012 * x + 2.7641E-005$$

$$R = 1.0000$$

$$DL = 0.004494$$

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	791.71	0.0000	P	18.4
2	☐	1.000	10.535	17152.72	0.0008	P	1.8
3	☐	500.000	508.449	779626.41	0.0381	P	2.5
4	☐	1250.000	1279.241	2000388.39	0.0959	A	0.8
5	☐	2500.000	2523.258	3955027.82	0.1892	A	2.5
6	☐	5000.000	5072.720	7983488.72	0.3802	A	1.7
7	☐	10000.000	9953.747	16361384.22	0.7461	A	1.4
8	☐			8925.43	0.0004	P	4.8

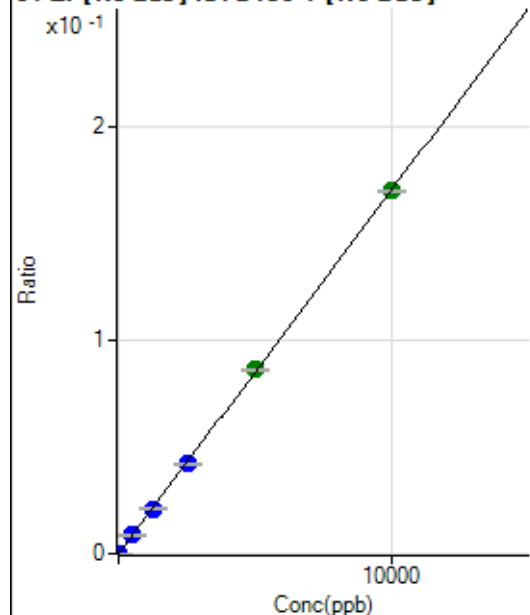
$$y = 7.4951E-005 * x + 3.8200E-005$$

$$R = 1.0000$$

$$DL = 0.281$$

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	138.90	0.0000	P	47.8
2	☐	1.000	10.174	3733.96	0.0002	P	3.8
3	☐	500.000	504.235	175984.12	0.0086	P	1.2
4	☐	1250.000	1237.794	440530.47	0.0211	P	1.5
5	☐	2500.000	2468.676	880845.12	0.0421	P	2.0
6	☐	5000.000	5055.989	1811306.23	0.0863	A	1.5
7	☐	10000.000	9981.150	3735086.93	0.1703	A	0.8
8	☐			1941.86	0.0001	P	8.1

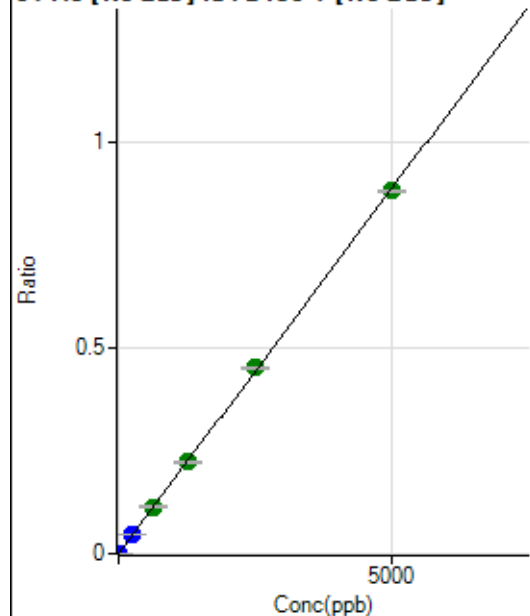
$$y = 1.7062E-005 * x + 6.6934E-006$$

$$R = 1.0000$$

$$DL = 0.563$$

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	313.90	0.0000	P	9.4
2	☐	5.000	5.503	20518.46	0.0010	P	3.7
3	☐	250.000	257.686	933971.25	0.0457	P	0.9
4	☐	625.000	642.092	2374077.88	0.1138	A	1.8
5	☐	1250.000	1260.501	4672173.33	0.2234	A	2.0
6	☐	2500.000	2543.625	9466771.31	0.4509	A	1.0
7	☐	5000.000	4973.041	19332571.09	0.8815	A	0.6
8	☐			10602.25	0.0005	P	45.8

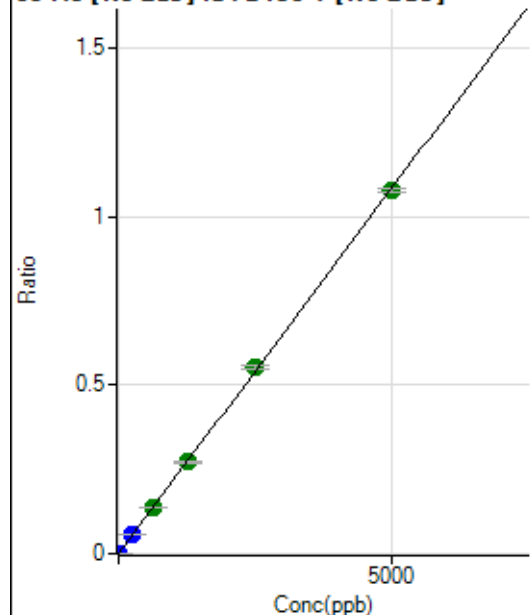
$$y = 1.7725E-004 * x + 1.5162E-005$$

$$R = 0.9999$$

$$DL = 0.02404$$

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	158.34	0.0000	P	42.3
2	☐	5.000	5.352	24210.46	0.0012	P	3.9
3	☐	250.000	256.941	1139737.78	0.0558	P	1.7
4	☐	625.000	629.499	2848945.55	0.1366	A	1.1
5	☐	1250.000	1256.705	5701451.52	0.2727	A	2.8
6	☐	2500.000	2559.604	11660661.89	0.5554	A	1.9
7	☐	5000.000	4967.612	23639760.95	1.0779	A	1.0
8	☐			7413.32	0.0003	P	4.5

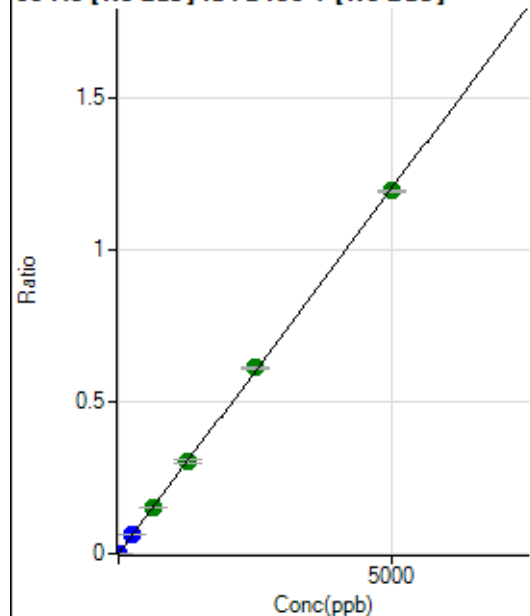
$$y = 2.1699\text{E-}004 * x + 7.6605\text{E-}006$$

R = 0.9999

DL = 0.0448

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	225.01	0.0000	P	29.3
2	☐	5.000	5.256	26389.59	0.0013	P	3.9
3	☐	250.000	254.776	1251902.07	0.0613	P	2.1
4	☐	625.000	628.640	3151504.58	0.1511	A	0.7
5	☐	1250.000	1265.356	6359386.08	0.3042	A	2.8
6	☐	2500.000	2548.177	12860886.31	0.6125	A	0.9
7	☐	5000.000	4971.379	26206078.71	1.1950	A	0.9
8	☐			17086.00	0.0008	P	3.0

$$y = 2.4037\text{E-}004 * x + 1.0863\text{E-}005$$

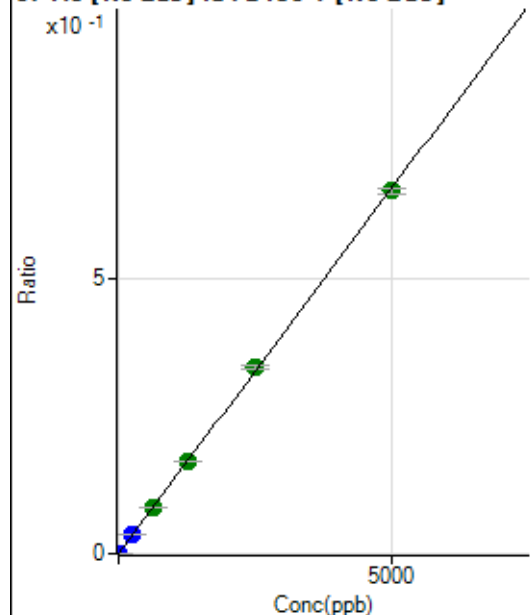
R = 0.9999

DL = 0.03969

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	18.4
2	☐	5.000	5.392	14869.51	0.0007	P	1.5
3	☐	250.000	256.415	694386.10	0.0340	P	1.4
4	☐	625.000	634.244	1752352.99	0.0840	A	1.9
5	☐	1250.000	1264.651	3503364.31	0.1675	A	1.7
6	☐	2500.000	2556.397	7109906.84	0.3387	A	2.1
7	☐	5000.000	4966.662	14427888.51	0.6579	A	1.7
8	☐			4370.25	0.0002	P	8.3

$$y = 1.3247\text{E-}004 * x + 3.4921\text{E-}006$$

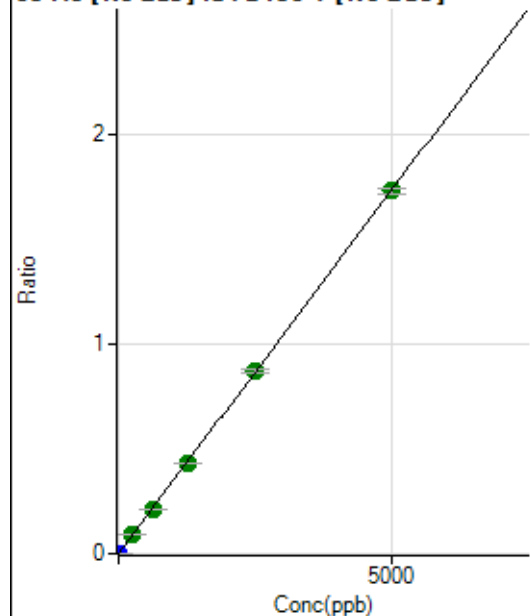
$$R = 0.9999$$

$$DL = 0.01454$$

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	136.12	0.0000	P	34.0
2	☐	5.000	5.303	38164.29	0.0018	P	2.5
3	☐	250.000	252.635	1787604.03	0.0874	A	0.7
4	☐	625.000	618.397	4463987.03	0.2140	A	0.2
5	☐	1250.000	1244.380	9006330.06	0.4307	A	1.8
6	☐	2500.000	2521.341	18321866.73	0.8727	A	2.2
7	☐	5000.000	4991.428	37885281.05	1.7277	A	1.8
8	☐			10723.93	0.0005	P	2.2

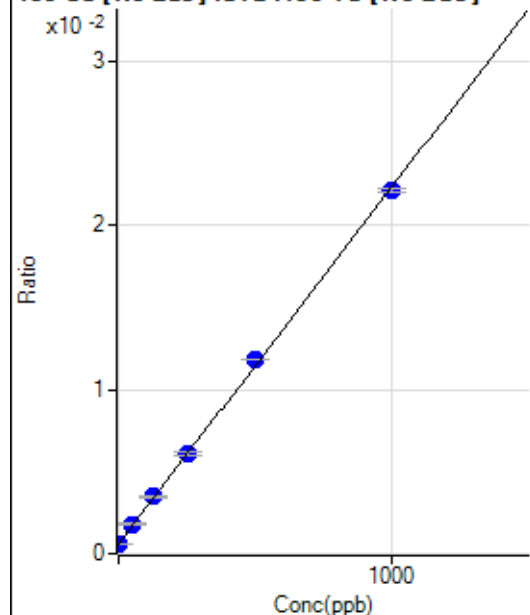
$$y = 3.4612\text{E-}004 * x + 6.5760\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01937$$

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	5642.94	0.0006	P	4.4
2	☐	1.000	0.489	5820.81	0.0006	P	0.7
3	☐	50.000	53.297	16618.82	0.0018	P	6.6
4	☐	125.000	132.832	33199.00	0.0035	P	2.7
5	☐	250.000	252.337	60539.43	0.0061	P	2.8
6	☐	500.000	515.925	114589.05	0.0118	P	0.3
7	☐	1000.000	990.310	227317.17	0.0221	P	1.1
8	☐			5856.96	0.0006	P	1.5

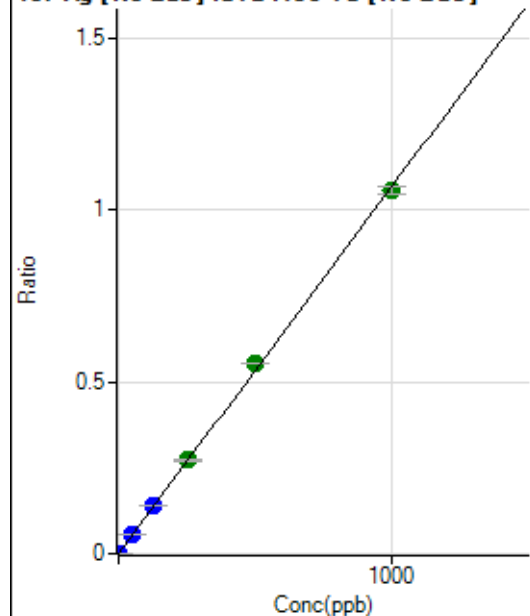
$$y = 2.1711\text{E-}005 * x + 6.0136\text{E-}004$$

$$R = 0.9998$$

$$DL = 3.678$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0000	P	11.3
2	☐	1.000	1.056	10857.38	0.0011	P	3.6
3	☐	50.000	52.746	532850.35	0.0564	P	3.7
4	☐	125.000	131.256	1335425.30	0.1402	P	2.4
5	☐	250.000	255.010	2713072.09	0.2724	A	0.7
6	☐	500.000	516.757	5359066.44	0.5520	A	0.1
7	☐	1000.000	989.450	10868117.43	1.0569	A	2.3
8	☐			3097.65	0.0003	P	8.1

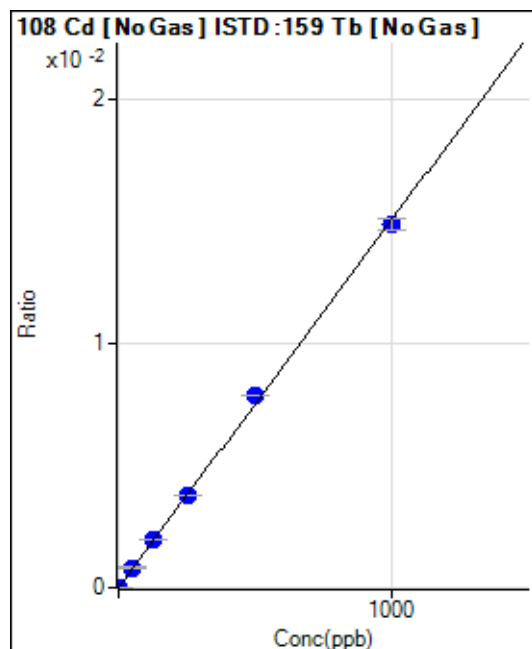
$$y = 0.0011 * x + 1.4215\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.004528$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.83	0.0000	P	24.7
2	☐	1.000	1.208	219.45	0.0000	P	13.2
3	☐	50.000	53.949	7717.52	0.0008	P	4.3
4	☐	125.000	130.076	18680.90	0.0020	P	1.9
5	☐	250.000	252.415	37863.20	0.0038	P	0.3
6	☐	500.000	522.871	76393.83	0.0079	P	0.7
7	☐	1000.000	987.129	152704.44	0.0149	P	3.3
8	☐			161.12	0.0000	P	8.5

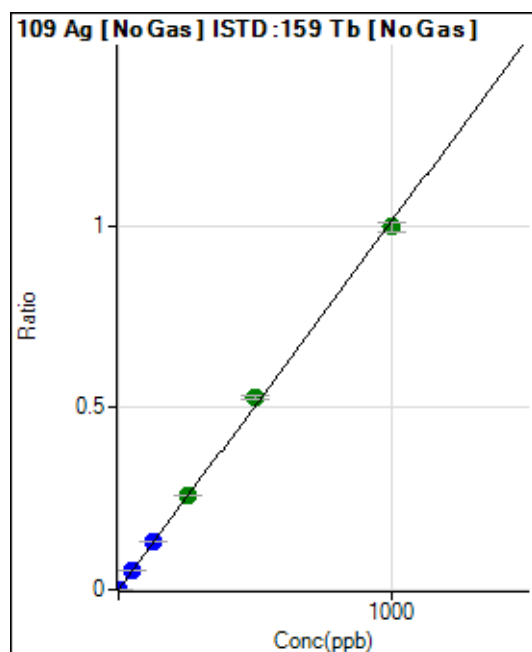
$$y = 1.5040\text{E-}005 * x + 4.8901\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.2412$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	47.6
2	☐	1.000	1.093	10607.13	0.0011	P	0.6
3	☐	50.000	53.346	510252.48	0.0540	P	2.7
4	☐	125.000	132.123	1272904.71	0.1336	P	1.3
5	☐	250.000	257.680	2595482.11	0.2606	A	0.7
6	☐	500.000	522.497	5128766.65	0.5284	A	3.0
7	☐	1000.000	985.774	10250659.08	0.9969	A	2.7
8	☐			3072.65	0.0003	P	5.9

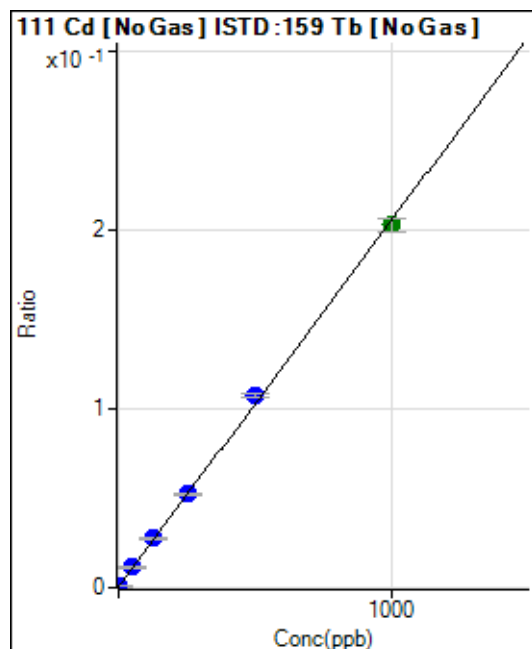
$$y = 0.0010 * x + 9.7603\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.01379$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3958.25	0.0004	P	4.4
2	☐	1.000	1.053	6068.37	0.0006	P	3.3
3	☐	50.000	53.401	107653.11	0.0114	P	1.5
4	☐	125.000	131.717	261488.85	0.0275	P	1.8
5	☐	250.000	252.638	520504.75	0.0523	P	2.5
6	☐	500.000	521.345	1042694.34	0.1074	P	1.9
7	☐	1000.000	987.658	2088326.46	0.2031	A	3.9
8	☐			4677.39	0.0005	P	1.1

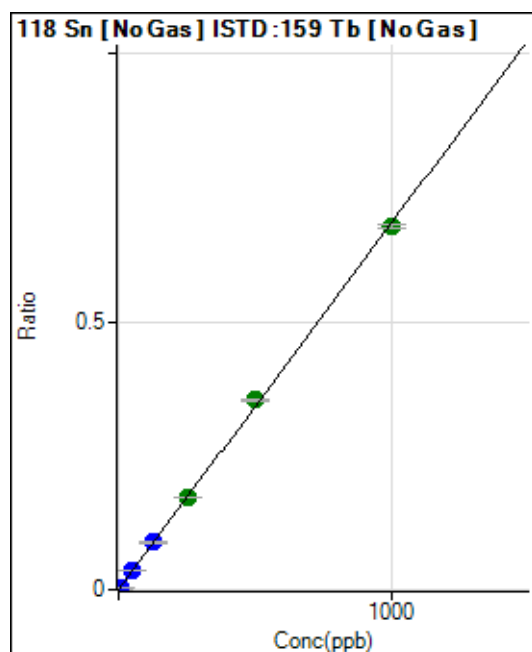
$$y = 2.0523\text{E-}004 * x + 4.2182\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.2718$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1086.19	0.0001	P	3.0
2	☐	5.000	5.293	35532.97	0.0037	P	0.6
3	☐	50.000	52.616	341407.81	0.0361	P	2.4
4	☐	125.000	128.422	837658.69	0.0879	P	2.0
5	☐	250.000	252.732	1722774.84	0.1730	A	0.5
6	☐	500.000	518.448	3443373.43	0.3547	A	0.8
7	☐	1000.000	989.533	6961198.42	0.6769	A	1.2
8	☐			3189.35	0.0003	P	6.2

$$y = 6.8392\text{E-}004 * x + 1.1575\text{E-}004$$

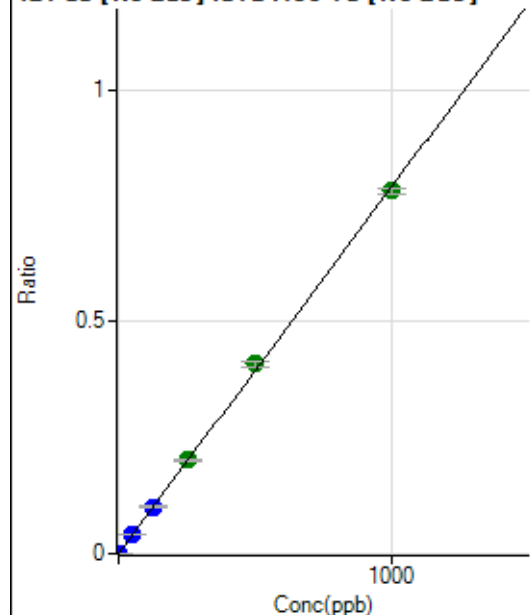
$$R = 0.9997$$

$$DL = 0.01505$$

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	75.00	0.0000	P	39.2
2	☐	2.000	2.098	15851.22	0.0017	P	3.0
3	☐	50.000	50.924	380795.82	0.0403	P	2.8
4	☐	125.000	127.694	961652.37	0.1010	P	2.3
5	☐	250.000	254.720	2006030.25	0.2014	A	0.7
6	☐	500.000	517.390	3970495.14	0.4091	A	3.3
7	☐	1000.000	989.742	8047524.92	0.7825	A	1.3
8	☐			4837.09	0.0005	P	8.0

$$y = 7.9062E-004 * x + 7.9742E-006$$

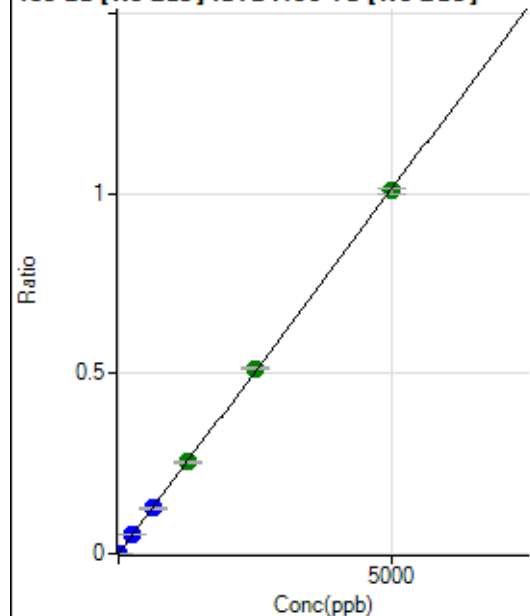
$$R = 0.9998$$

$$DL = 0.01188$$

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	47.22	0.0000	P	44.2
2	☐	10.000	10.626	20488.22	0.0022	P	3.1
3	☐	250.000	253.312	484516.42	0.0512	P	2.1
4	☐	625.000	626.721	1207117.03	0.1267	P	2.3
5	☐	1250.000	1253.612	2524467.70	0.2535	A	2.3
6	☐	2500.000	2543.397	4992556.23	0.5143	A	1.8
7	☐	5000.000	4977.016	10350317.42	1.0065	A	1.8
8	☐			4384.17	0.0004	P	2.2

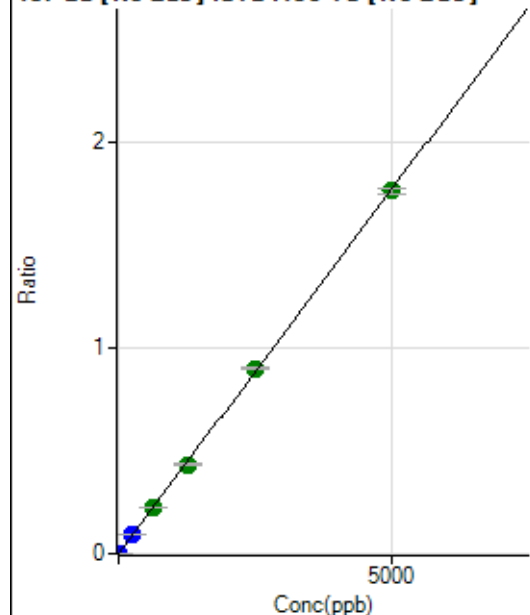
$$y = 2.0222E-004 * x + 5.0334E-006$$

$$R = 0.9999$$

$$DL = 0.03299$$

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	80.56	0.0000	P	27.0
2	☐	10.000	10.748	36257.66	0.0038	P	2.9
3	☐	250.000	256.596	858921.98	0.0908	P	1.9
4	☐	625.000	635.592	2142557.97	0.2249	A	1.4
5	☐	1250.000	1227.853	4327071.71	0.4345	A	2.3
6	☐	2500.000	2543.029	8736963.74	0.9000	A	0.8
7	☐	5000.000	4982.367	18133766.03	1.7632	A	1.4
8	☐			7046.48	0.0007	P	5.2

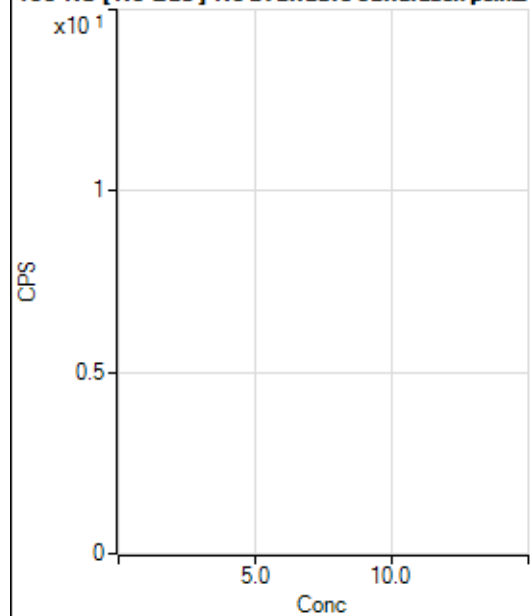
$$y = 3.5389\text{E-}004 * x + 8.6001\text{E-}006$$

$$R = 0.9999$$

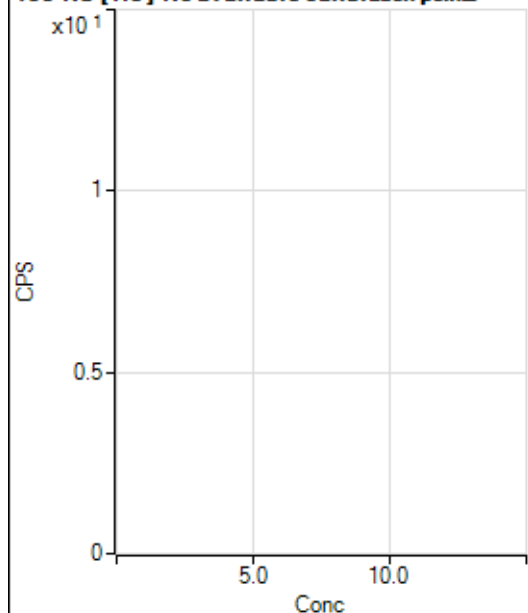
$$DL = 0.0197$$

Weight: <None>

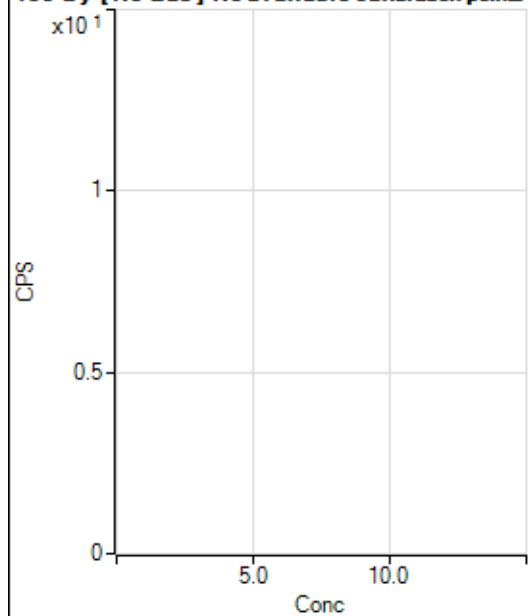
Min Conc: 0

150 Nd [No Gas] No available calibration points

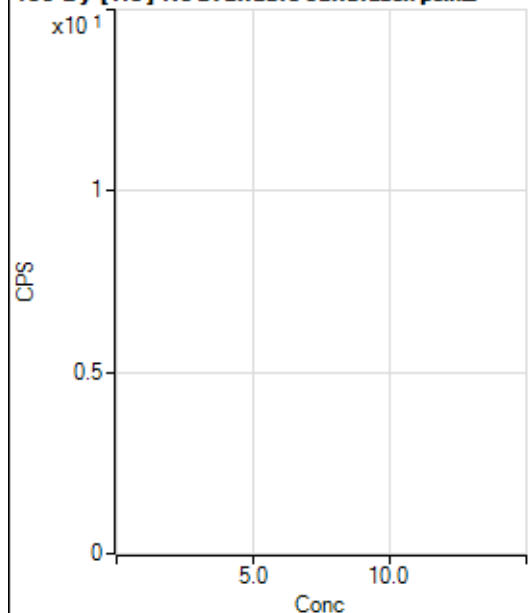
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			4.45		P	86.6
3	☐			13.34		P	86.6
4	☐			64.45		P	26.0
5	☐			144.45		P	25.4
6	☐			220.01		P	22.9
7	☐			375.57		P	9.8
8	☐			82.22		P	32.8

150 Nd [He] No available calibration points

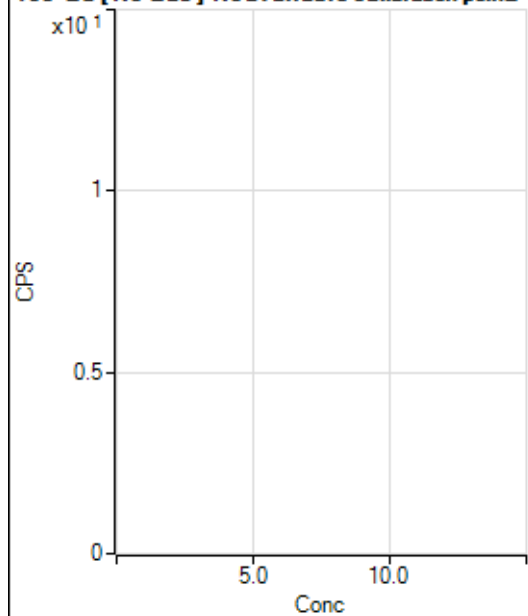
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	173.
3	☐			1.11		P	173.
4	☐			4.44		P	114.
5	☐			8.89		P	43.3
6	☐			17.78		P	71.0
7	☐			30.00		P	40.1
8	☐			37.78		P	18.4

156 Dy [No Gas] No available calibration points

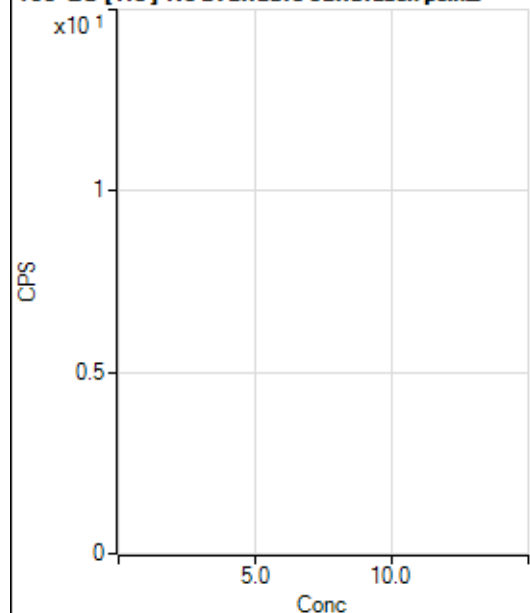
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐			13.89		P	69.3
3	☐			27.78		P	69.3
4	☐			61.11		P	47.9
5	☐			102.78		P	12.4
6	☐			188.90		P	9.2
7	☐			400.02		P	5.5
8	☐			1369.55		P	9.9

156 Dy [He] No available calibration points

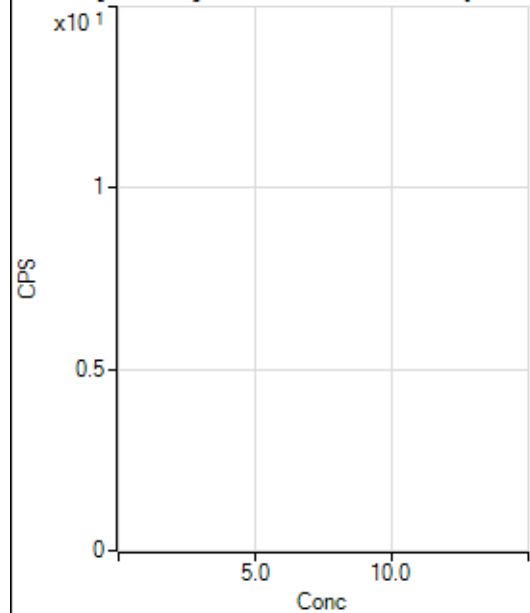
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			5.56		P	91.6
3	☐			11.11		P	69.3
4	☐			37.78		P	35.7
5	☐			58.89		P	31.2
6	☐			100.00		P	18.6
7	☐			162.22		P	14.0
8	☐			708.92		P	8.7

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

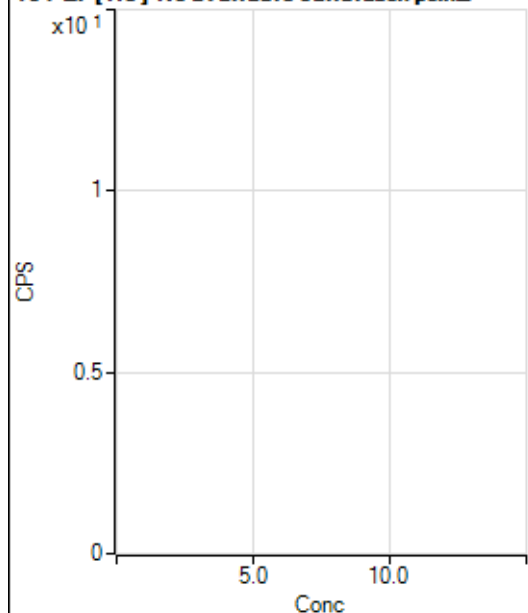
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.11		P	68.7
2	☐			83.34		P	40.0
3	☐			102.78		P	26.1
4	☐			83.34		P	43.6
5	☐			138.89		P	15.1
6	☐			194.45		P	12.4
7	☐			358.35		P	NaN
8	☐			1319.55		P	6.9

160 Gd [He] No available calibration points

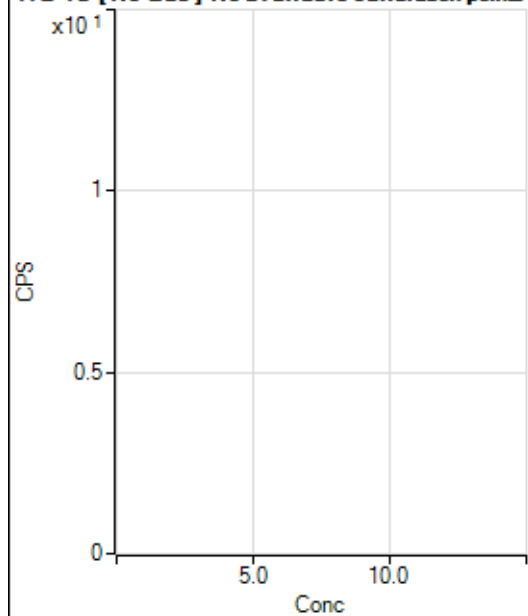
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	27.8
2	☐			50.00		P	23.1
3	☐			72.22		P	21.3
4	☐			90.00		P	7.4
5	☐			108.89		P	4.7
6	☐			162.23		P	7.8
7	☐			244.45		P	12.4
8	☐			813.37		P	2.9

164 Er [No Gas] No available calibration points

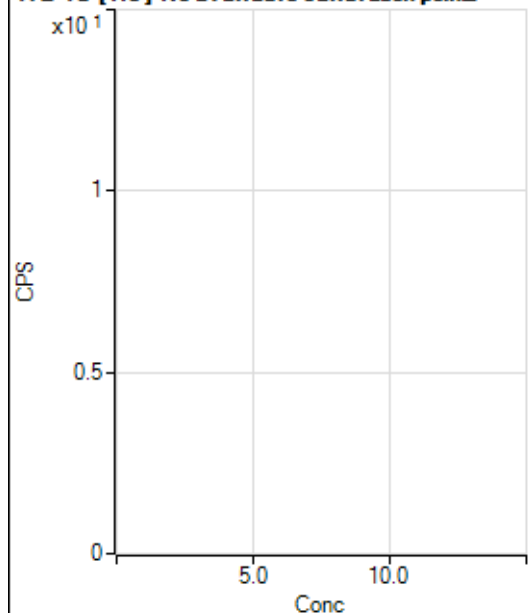
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	28.9
2	☐			58.33		P	28.6
3	☐			61.11		P	20.8
4	☐			72.22		P	43.7
5	☐			75.00		P	19.3
6	☐			77.78		P	22.3
7	☐			133.34		P	16.5
8	☐			283.34		P	5.9

164 Er [He] No available calibration points

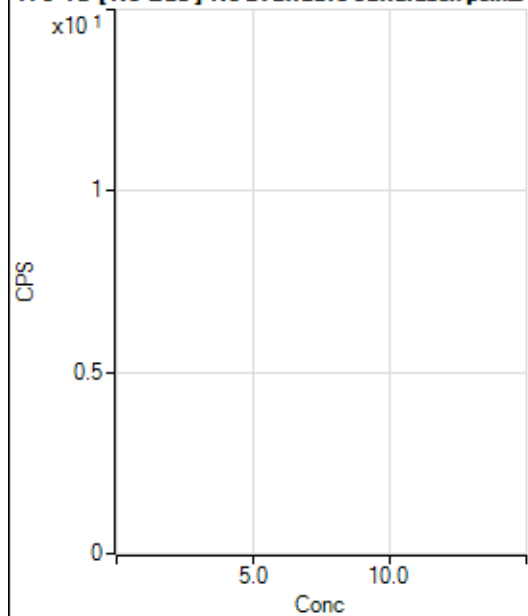
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	14.8
2	☐			26.67		P	12.5
3	☐			35.56		P	23.6
4	☐			26.67		P	82.0
5	☐			44.45		P	8.7
6	☐			46.67		P	31.1
7	☐			65.55		P	16.3
8	☐			133.34		P	7.5

172 Yb [No Gas] No available calibration points

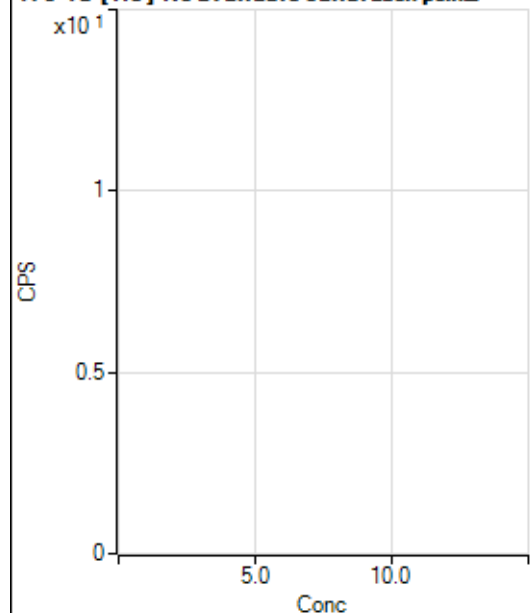
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	21.6
2	☐			22.22		P	21.6
3	☐			19.44		P	137.
4	☐			19.44		P	49.5
5	☐			33.33		P	25.0
6	☐			47.22		P	40.8
7	☐			52.78		P	32.9
8	☐			133.34		P	10.8

172 Yb [He] No available calibration points

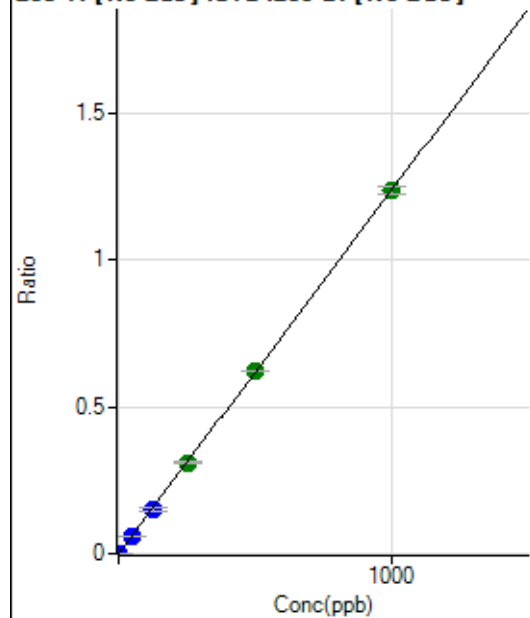
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.41		P	114.
2	☐			11.11		P	50.0
3	☐			11.11		P	86.6
4	☐			9.26		P	124.
5	☐			20.37		P	56.8
6	☐			37.04		P	8.7
7	☐			24.07		P	58.1
8	☐			94.45		P	32.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1255.66		P	19.0
2	☐			1180.65		P	4.7
3	☐			2511.41		P	2.8
4	☐			4528.68		P	2.1
5	☐			8052.66		P	1.9
6	☐			15323.15		P	0.3
7	☐			29578.30		P	1.9
8	☐			1400.11		P	14.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3441.25		P	5.7
2	☐			3376.43		P	2.1
3	☐			3921.03		P	2.0
4	☐			5032.53		P	5.2
5	☐			6987.16		P	3.1
6	☐			11379.13		P	4.1
7	☐			20022.82		P	1.3
8	☐			2987.43		P	8.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	563.92	0.0001	P	7.5
2	☐	1.000	1.003	7271.67	0.0013	P	2.6
3	☐	50.000	49.219	320305.19	0.0610	P	3.0
4	☐	125.000	121.754	809021.26	0.1508	P	4.5
5	☐	250.000	249.553	1692768.91	0.3090	A	2.1
6	☐	500.000	503.901	3421199.25	0.6238	A	0.6
7	☐	1000.000	998.606	6821801.11	1.2362	A	2.2
8	☐			1697.39	0.0003	P	9.6

$$y = 0.0012 * x + 1.0688E-004$$

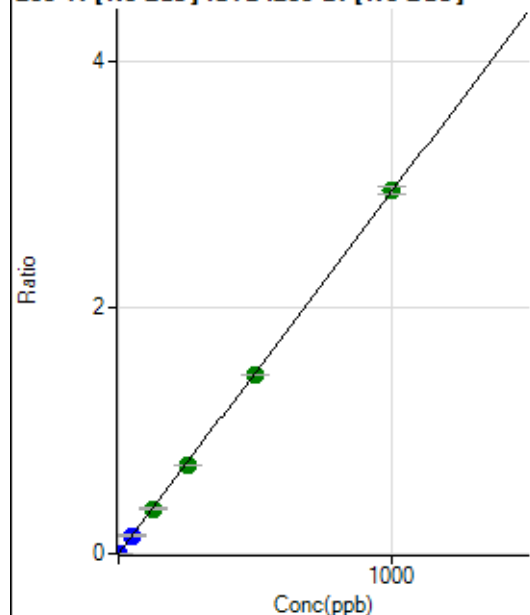
$$R = 1.0000$$

$$DL = 0.01937$$

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	1263.99	0.0002	P	12.8
2	☐	1.000	1.010	17270.25	0.0032	P	3.4
3	☐	50.000	49.450	762632.04	0.1454	P	4.9
4	☐	125.000	124.631	1963383.51	0.3661	A	5.2
5	☐	250.000	245.846	3954424.52	0.7218	A	1.1
6	☐	500.000	495.798	7982049.57	1.4555	A	0.5
7	☐	1000.000	1003.213	16251077.45	2.9448	A	2.2
8	☐			4228.60	0.0008	P	2.4

$$y = 0.0029 * x + 2.3968E-004$$

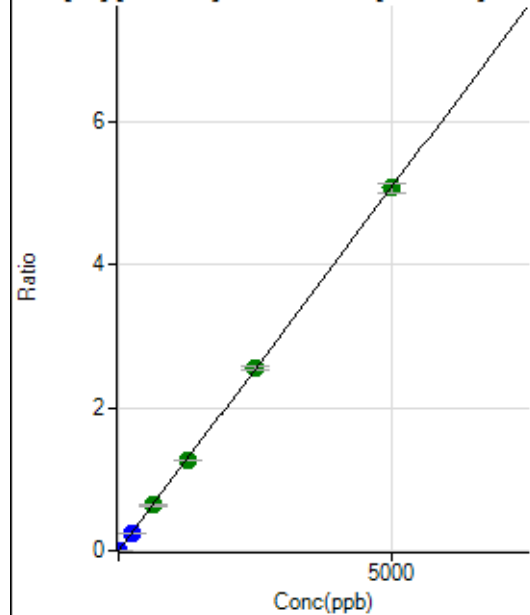
$$R = 1.0000$$

$$DL = 0.03138$$

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	1313.06	0.0002	P	0.6
2	☐	1.000	1.028	6974.23	0.0013	P	3.5
3	☐	250.000	242.091	1292305.97	0.2463	P	4.5
4	☐	625.000	623.459	3401663.45	0.6340	A	3.6
5	☐	1250.000	1242.515	6920747.49	1.2632	A	0.6
6	☐	2500.000	2518.005	14036990.36	2.5597	A	1.4
7	☐	5000.000	4993.457	28011511.04	5.0760	A	2.4
8	☐			10671.25	0.0021	P	1.5

$$y = 0.0010 * x + 2.4880E-004$$

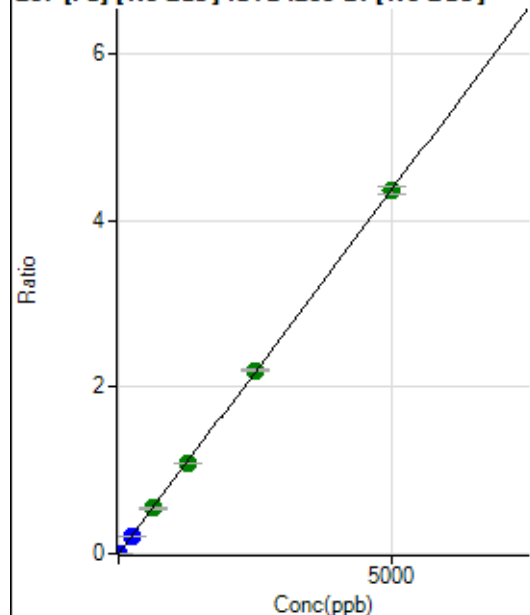
$$R = 1.0000$$

$$DL = 0.004448$$

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	1185.26	0.0002	P	3.5
2	☐	1.000	0.965	5743.98	0.0011	P	4.1
3	☐	250.000	246.496	1129056.06	0.2151	P	2.7
4	☐	625.000	626.771	2932595.18	0.5466	A	3.9
5	☐	1250.000	1242.247	5933480.75	1.0831	A	1.3
6	☐	2500.000	2523.900	12066416.24	2.2004	A	1.4
7	☐	5000.000	4989.942	24006638.96	4.3501	A	2.1
8	☐			9092.25	0.0018	P	2.0

$$y = 8.7173E-004 * x + 2.2455E-004$$

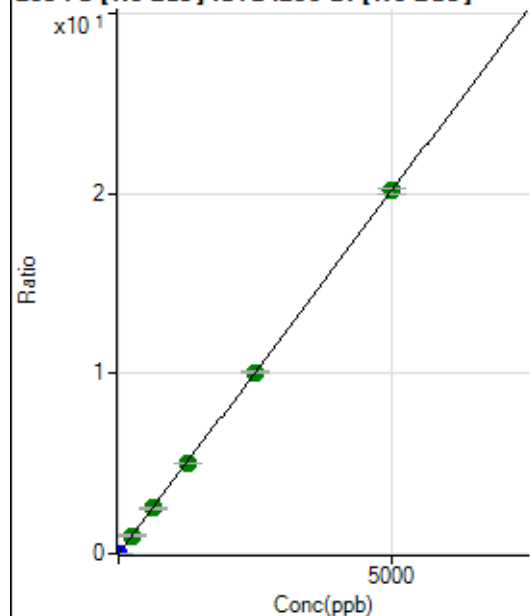
$$R = 1.0000$$

$$DL = 0.02721$$

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	5204.21	0.0010	P	2.5
2	☐	1.000	1.005	27146.81	0.0050	P	2.0
3	☐	250.000	250.628	5304472.92	1.0106	A	2.8
4	☐	625.000	625.074	13519221.23	2.5191	A	2.7
5	☐	1250.000	1242.720	27429844.42	5.0073	A	1.3
6	☐	2500.000	2501.612	55269602.39	10.0787	A	1.2
7	☐	5000.000	5000.973	111193607.3	20.1473	A	1.4
8	☐			42708.21	0.0084	P	0.3

$$y = 0.0040 * x + 9.8625E-004$$

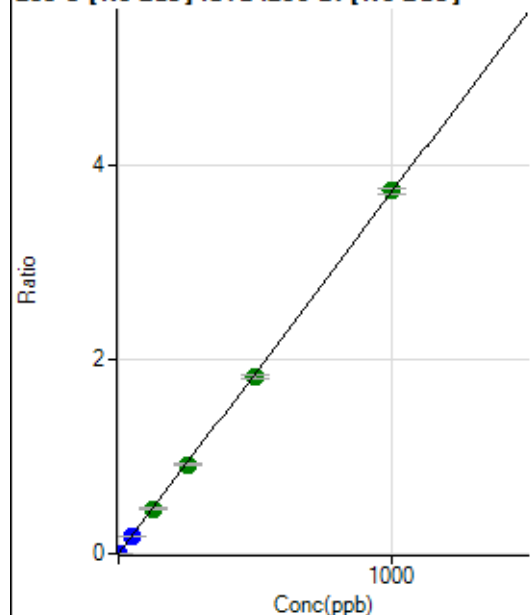
$$R = 1.0000$$

$$DL = 0.01836$$

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	19.44	0.0000	P	49.3
2	☐	1.000	0.988	19857.76	0.0037	P	6.2
3	☐	50.000	47.909	936989.43	0.1785	P	3.0
4	☐	125.000	124.516	2490797.21	0.4640	A	1.5
5	☐	250.000	246.849	5038989.70	0.9199	A	1.6
6	☐	500.000	492.047	10055418.54	1.8336	A	2.1
7	☐	1000.000	1004.929	20666562.44	3.7448	A	1.4
8	☐			2191.93	0.0004	P	12.8

$$y = 0.0037 * x + 3.6807E-006$$

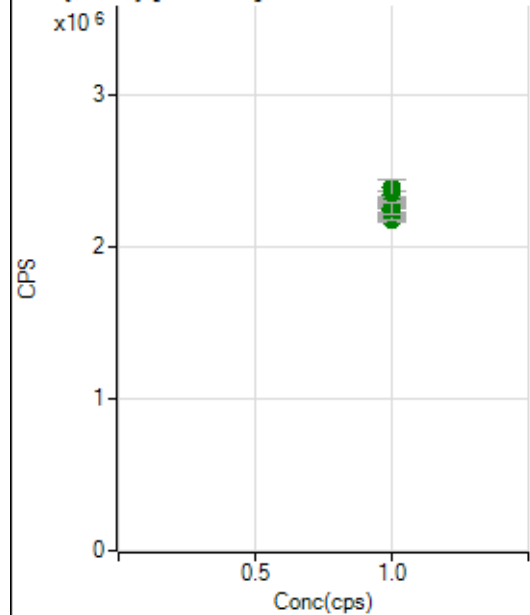
$$R = 0.9999$$

$$DL = 0.001462$$

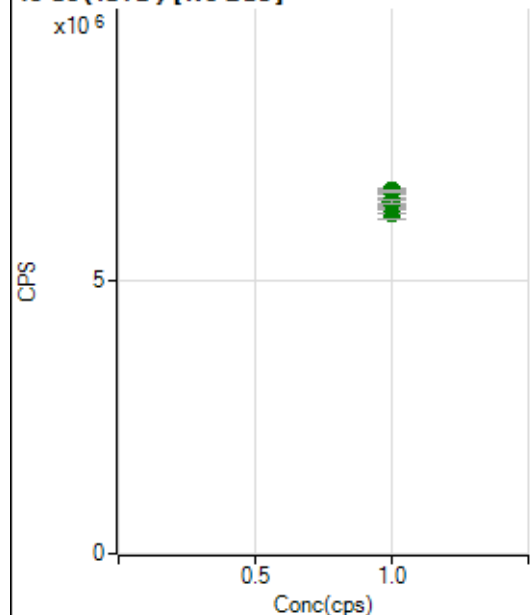
Weight: <None>

Min Conc: 0

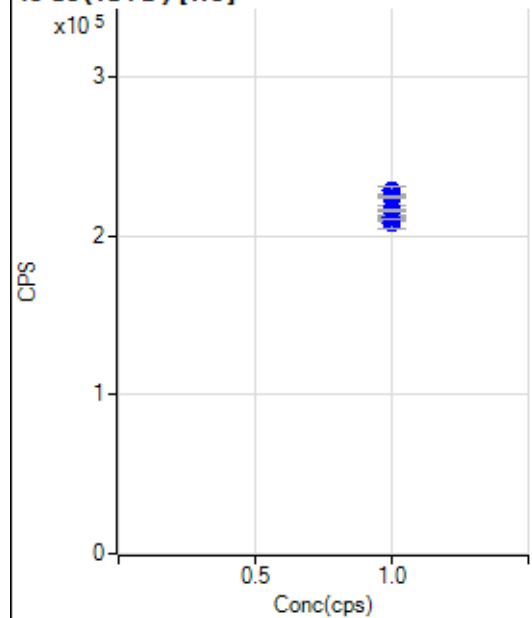
6 Li (ISTD) [No Gas]



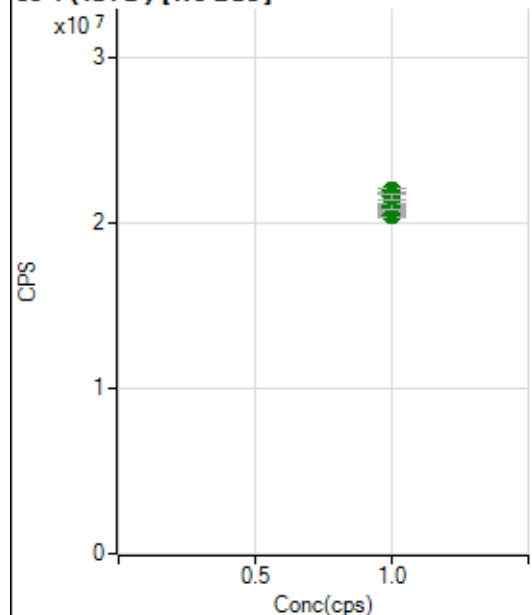
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2172266.13		A	0.8
2	☐	1.000		2242681.52		A	1.7
3	☐	1.000		2235826.72		A	3.7
4	☐	1.000		2332329.24		A	2.2
5	☐	1.000		2383244.55		A	4.7
6	☐	1.000		2211596.81		A	3.0
7	☐	1.000		2289099.94		A	0.7
8	☐	1.000		2249560.66		A	3.0

45 Sc (ISTD) [No Gas]

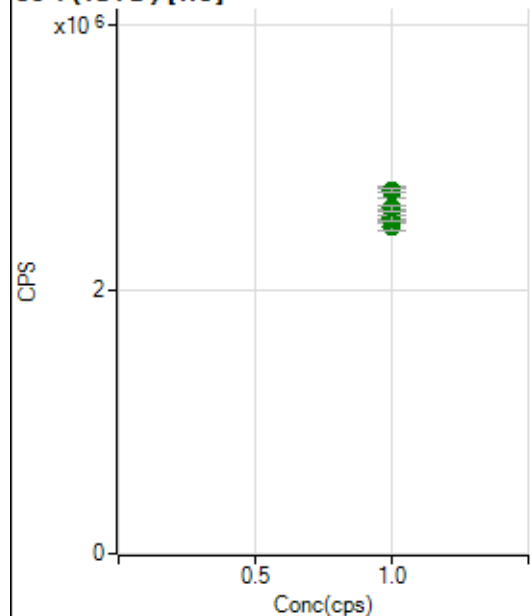
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6236328.52		A	3.1
2	☐	1.000		6313832.75		A	0.6
3	☐	1.000		6301907.96		A	2.6
4	☐	1.000		6341481.16		A	1.0
5	☐	1.000		6418891.92		A	2.4
6	☐	1.000		6424533.79		A	1.1
7	☐	1.000		6639414.69		A	1.3
8	☐	1.000		6634366.85		A	0.3

45 Sc (ISTD) [He]

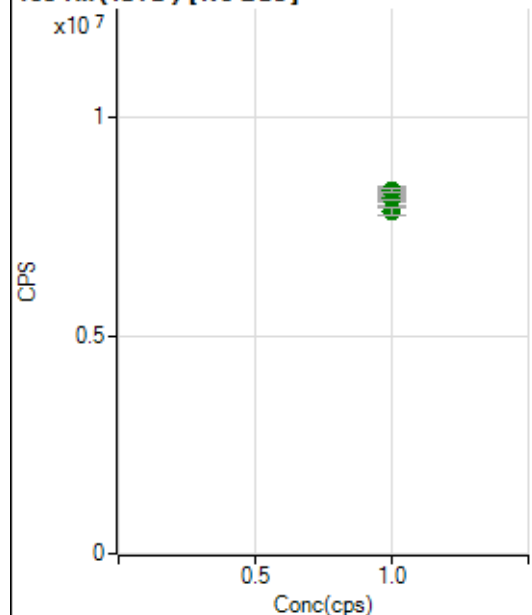
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		209658.04		P	0.9
2	☐	1.000		216924.29		P	1.3
3	☐	1.000		212302.49		P	0.3
4	☐	1.000		207865.63		P	3.1
5	☐	1.000		211830.45		P	1.3
6	☐	1.000		216153.00		P	0.7
7	☐	1.000		228121.48		P	2.2
8	☐	1.000		224273.54		P	0.5

89 Y (ISTD) [No Gas]

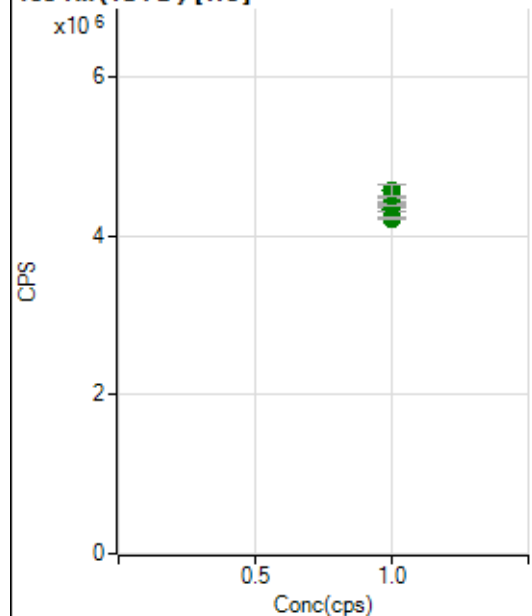
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20703553.30		A	0.9
2	☐	1.000		20722297.19		A	2.5
3	☐	1.000		20442264.83		A	1.4
4	☐	1.000		20855046.36		A	0.9
5	☐	1.000		20915094.27		A	2.0
6	☐	1.000		20997773.85		A	1.3
7	☐	1.000		21931459.95		A	1.2
8	☐	1.000		21589773.57		A	1.9

89 Y (ISTD) [He]

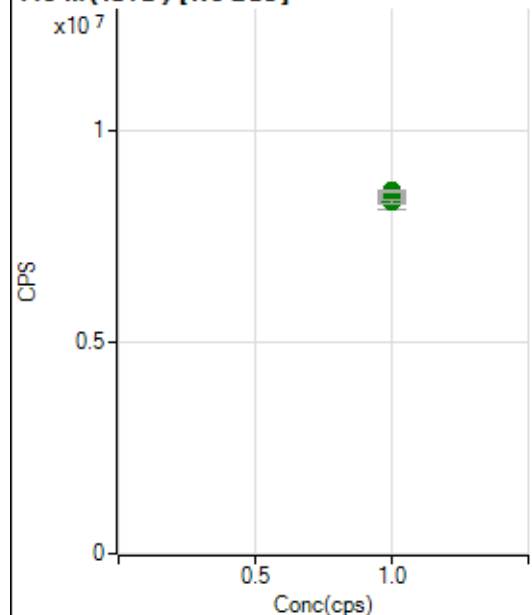
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2528205.38		A	2.2
2	☐	1.000		2603674.44		A	0.6
3	☐	1.000		2549645.88		A	1.4
4	☐	1.000		2482261.39		A	3.0
5	☐	1.000		2540301.71		A	1.8
6	☐	1.000		2616231.33		A	1.3
7	☐	1.000		2744008.85		A	3.1
8	☐	1.000		2747493.54		A	0.9

103 Rh (ISTD) [No Gas]

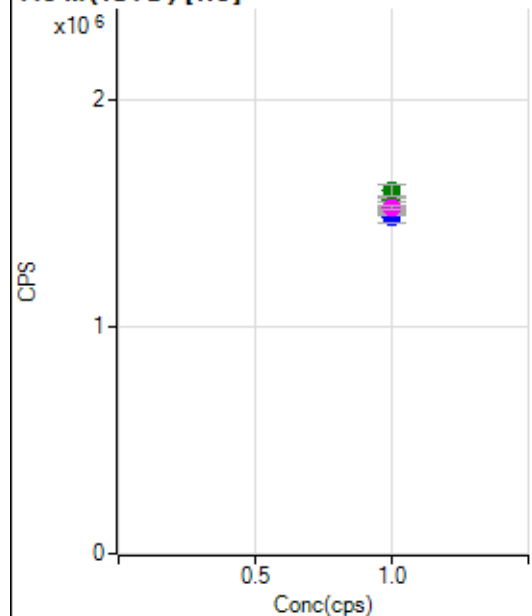
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8260517.98		A	1.0
2	☐	1.000		8248234.56		A	4.3
3	☐	1.000		8170477.61		A	4.2
4	☐	1.000		8185094.54		A	1.1
5	☐	1.000		8308789.94		A	1.3
6	☐	1.000		8165993.24		A	1.3
7	☐	1.000		8316195.41		A	1.1
8	☐	1.000		7854886.29		A	2.3

103 Rh (ISTD) [He]

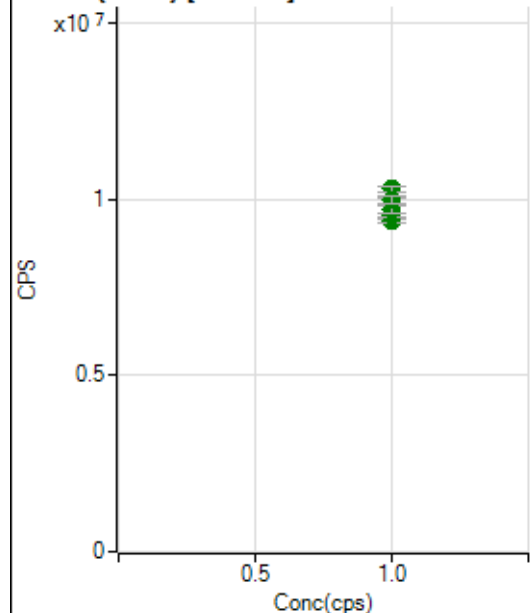
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4402509.76		A	1.5
2	☐	1.000		4488022.54		A	0.5
3	☐	1.000		4400170.18		A	1.4
4	☐	1.000		4334464.62		A	1.4
5	☐	1.000		4382486.57		A	0.8
6	☐	1.000		4487410.04		A	0.8
7	☐	1.000		4562065.28		A	3.1
8	☐	1.000		4219372.02		A	0.6

115 In (ISTD) [No Gas]

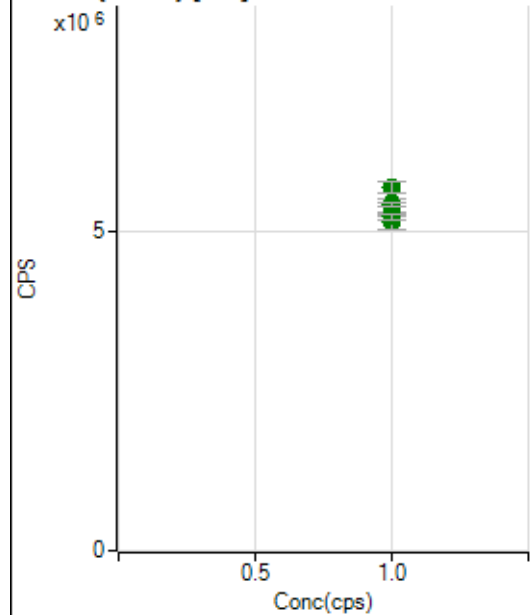
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8435332.05		A	2.1
2	☐	1.000		8309022.14		A	3.7
3	☐	1.000		8381181.46		A	1.5
4	☐	1.000		8373809.78		A	1.7
5	☐	1.000		8418665.68		A	3.6
6	☐	1.000		8368471.08		A	1.1
7	☐	1.000		8583202.57		A	0.4
8	☐	1.000		8332534.92		A	1.0

115 In (ISTD) [He]

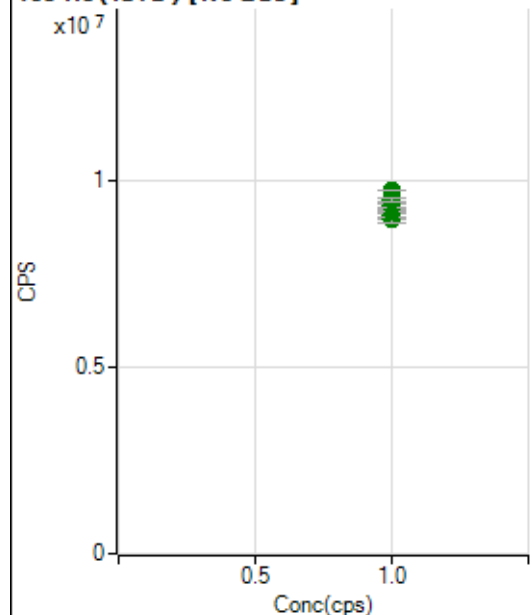
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1502482.11		P	0.3
2	☐	1.000		1570577.94		A	0.7
3	☐	1.000		1515135.70		P	0.9
4	☐	1.000		1478969.91		P	3.0
5	☐	1.000		1495726.92		P	1.0
6	☐	1.000		1558183.18		A	1.0
7	☐	1.000		1597719.30		A	3.3
8	☐	1.000		1523327.55		M	1.1

159 Tb (ISTD) [No Gas]

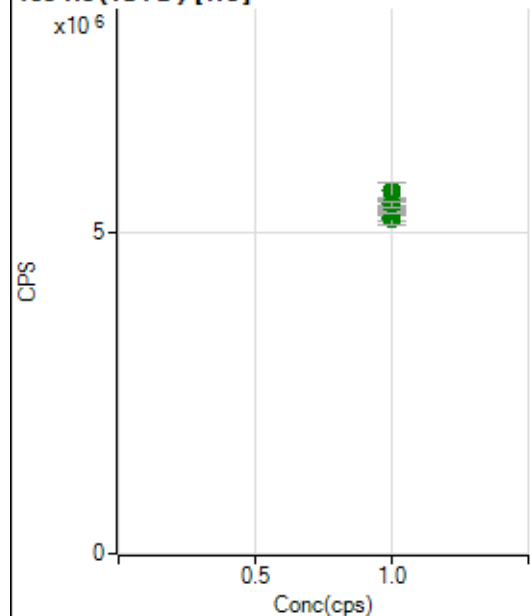
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9383908.12		A	1.2
2	☐	1.000		9511615.14		A	1.4
3	☐	1.000		9460922.71		A	2.6
4	☐	1.000		9526151.25		A	1.3
5	☐	1.000		9960792.49		A	1.9
6	☐	1.000		9708896.31		A	1.8
7	☐	1.000		10285647.70		A	1.7
8	☐	1.000		9988341.80		A	2.1

159 Tb (ISTD) [He]

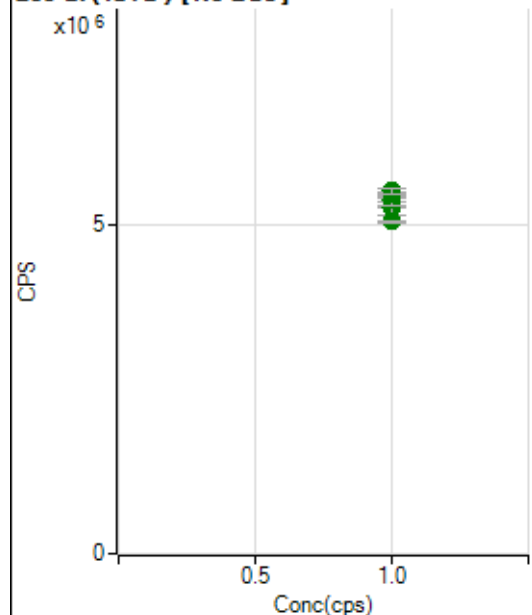
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5215725.13		A	1.9
2	☐	1.000		5259850.17		A	0.9
3	☐	1.000		5249363.33		A	0.8
4	☐	1.000		5133393.71		A	4.8
5	☐	1.000		5214946.45		A	1.6
6	☐	1.000		5439513.39		A	2.0
7	☐	1.000		5668423.39		A	3.0
8	☐	1.000		5414202.59		A	1.0

165 Ho (ISTD) [No Gas]

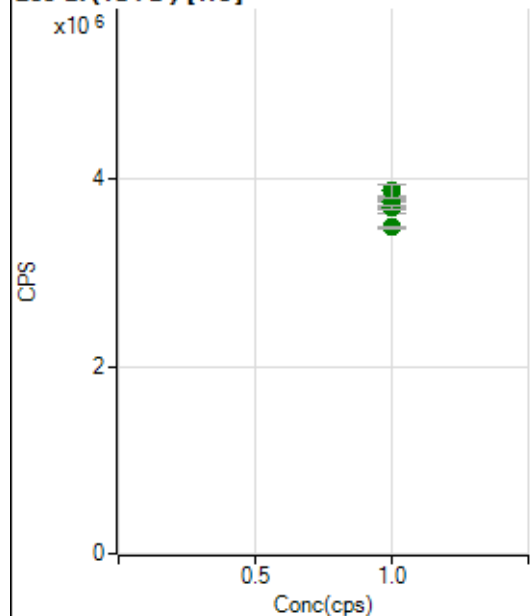
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9063573.38		A	2.1
2	☐	1.000		9057749.24		A	1.1
3	☐	1.000		8924930.32		A	1.7
4	☐	1.000		9175561.06		A	0.3
5	☐	1.000		9317441.96		A	1.4
6	☐	1.000		9319292.92		A	1.4
7	☐	1.000		9703423.74		A	0.1
8	☐	1.000		9481697.17		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5234927.84		A	1.5
2	☐	1.000		5390390.96		A	1.6
3	☐	1.000		5362683.60		A	0.7
4	☐	1.000		5232551.10		A	3.4
5	☐	1.000		5324182.66		A	0.6
6	☐	1.000		5519643.04		A	0.6
7	☐	1.000		5659072.83		A	4.9
8	☐	1.000		5445171.66		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5277487.73		A	0.9
2	☐	1.000		5395126.94		A	3.6
3	☐	1.000		5252223.15		A	3.9
4	☐	1.000		5369458.22		A	3.2
5	☐	1.000		5479149.16		A	2.4
6	☐	1.000		5484113.46		A	0.7
7	☐	1.000		5519489.29		A	1.5
8	☐	1.000		5054281.84		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3717331.16		A	1.9
2	☐	1.000		3807714.46		A	0.4
3	☐	1.000		3763876.30		A	1.0
4	☐	1.000		3693559.25		A	3.1
5	☐	1.000		3752719.63		A	3.1
6	☐	1.000		3695576.33		A	1.3
7	☐	1.000		3871250.81		A	3.5
8	☐	1.000		3478554.01		A	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8101121 MS.b
Acq. Date-Time 2021-10-11 13:47:52
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11695	116951.38			0.900	5.000
24		104092	1040924.64			1.242	5.000
25		13731	137305.15			0.382	5.000
26		16011	160105.58			0.720	5.000
59		30172	301722.28			1.035	5.000
113		12879	128792.70			1.135	5.000
115		40878	408781.25			0.895	5.000
206		16502	165018.08			1.102	5.000
207		13742	137416.91			1.312	5.000
208		33933	339334.56			0.933	5.000
220		1	6.60			21.694	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

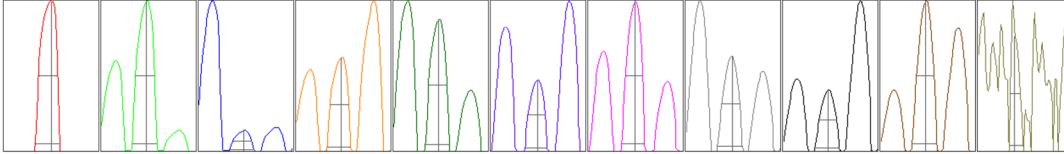
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11753	11802	11711	11524	11685
24	103741	102683	103612	104255	106171
25	13703	13796	13709	13670	13773
26	15948	16106	16055	15839	16105
59	30079	30244	30218	29728	30593
113	12860	12911	12995	12638	12991
115	41156	41078	41094	40275	40788
206	16227	16631	16504	16451	16695
207	13566	13696	13807	13618	14020
208	33538	33947	33996	33786	34401

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20011.88	9.05	8.90 - 9.10	
24	181974.84	23.95	23.90 - 24.10	
25	24401.84	24.95	24.90 - 25.10	
26	27940.33	25.95	25.90 - 26.10	
59	55405.28	58.95	58.90 - 59.10	
113	25127.45	113.00	112.90 - 113.10	
115	79596.57	115.00	114.90 - 115.10	
206	30582.33	206.00	205.90 - 206.10	
207	26082.06	206.95	206.90 - 207.10	
208	63851.77	207.95	207.90 - 208.10	
220	0.95	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.777	0.900	
24	0.61	0.783	0.900	
25	0.59	0.776	0.900	
26	0.61	0.741	0.900	
59	0.58	0.768	0.900	
113	0.54	0.692	0.900	
115	0.54	0.728	0.900	
206	0.56	0.783	0.900	
207	0.55	0.779	0.900	
208	0.55	0.782	0.900	
220	0.32	0.439		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.1 V	Deflect	15.4 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.9 mm
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EM

Discriminator	3.9 mV	Analog HV	2264 V	Pulse HV	1546 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7031	70305.96			1.745	
89		21118	211179.33			1.666	
205		17269	172690.35			1.805	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7011	6830	7127	7130	7056
89	21054	20532	21402	21291	21311
205	17149	16774	17432	17510	17480

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.1 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-200.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.9 mm		
EM					
Discriminator	3.9 mV	Analog HV	2264 V	Pulse HV	1546 V