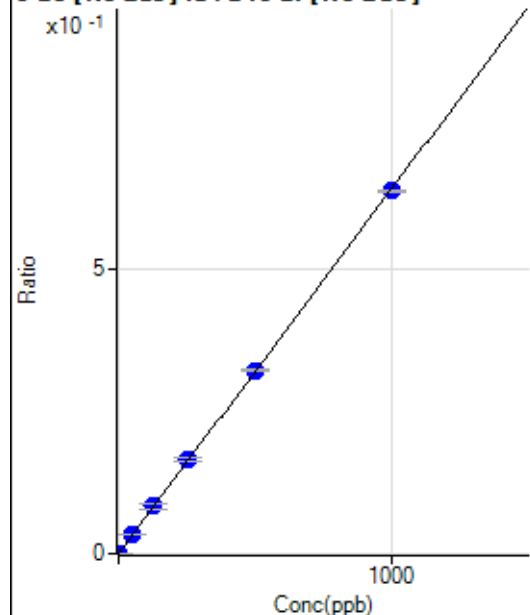


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120720 MS.b\
Analysis File: P8120720 MS.batch.bin
DA Date-Time: 2020-12-07 20:18:31
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-07 12:42:08
2	004CALS.d	S02	2020-12-07 12:45:21
3	005CALS.d	S03	2020-12-07 12:48:31
4	006CALS.d	S04	2020-12-07 12:51:43
5	007CALS.d	S05	2020-12-07 12:54:49
6	008CALS.d	S06	2020-12-07 12:57:49
7	009CALS.d	S07	2020-12-07 13:00:48
8	010CALS.d	S08	2020-12-07 13:03:48

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	39.99	0.0001	P	25.2
2	☐	1.000	1.030	533.90	0.0007	P	5.6
3	☐	50.000	53.583	25294.61	0.0343	P	2.5
4	☐	125.000	129.729	63023.69	0.0830	P	10.3
5	☐	250.000	260.014	127054.97	0.1663	P	3.4
6	☐	500.000	503.295	257874.30	0.3218	P	1.0
7	☐	1000.000	995.079	506990.54	0.6362	P	0.7
8	☐			293.28	0.0004	P	1.5

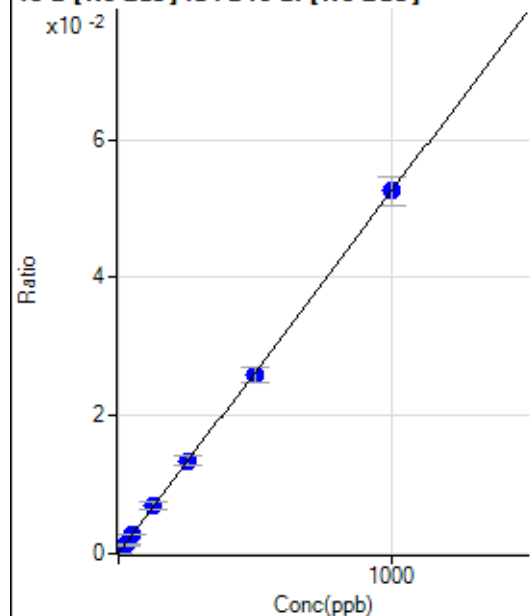
$$y = 6.3927E-004 * x + 5.1842E-005$$

$$R = 0.9999$$

$$DL = 0.06124$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.99	0.0001	P	15.8
2	☐	25.000	22.599	963.85	0.0013	P	10.1
3	☐	50.000	50.804	2035.08	0.0028	P	5.8
4	☐	125.000	130.861	5268.58	0.0070	P	14.7
5	☐	250.000	255.837	10302.92	0.0135	P	9.5
6	☐	500.000	493.145	20773.24	0.0259	P	8.3
7	☐	1000.000	1001.256	41877.10	0.0525	P	7.6
8	☐			5762.01	0.0071	P	11.5

$$y = 5.2377E-005 * x + 9.8826E-005$$

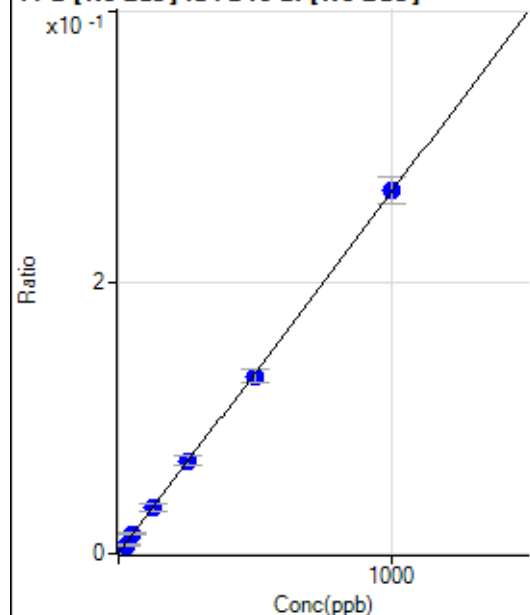
$$R = 0.9999$$

$$DL = 0.8918$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	385.93	0.0005	P	7.8
2	☐	25.000	21.827	4749.84	0.0063	P	4.6
3	☐	50.000	52.466	10689.13	0.0145	P	7.7
4	☐	125.000	126.606	25980.43	0.0343	P	14.4
5	☐	250.000	255.211	52320.37	0.0686	P	10.3
6	☐	500.000	490.380	105168.08	0.1313	P	7.2
7	☐	1000.000	1003.262	213602.64	0.2680	P	7.4
8	☐			29447.70	0.0364	P	11.1

$$y = 2.6665E-004 * x + 5.0131E-004$$

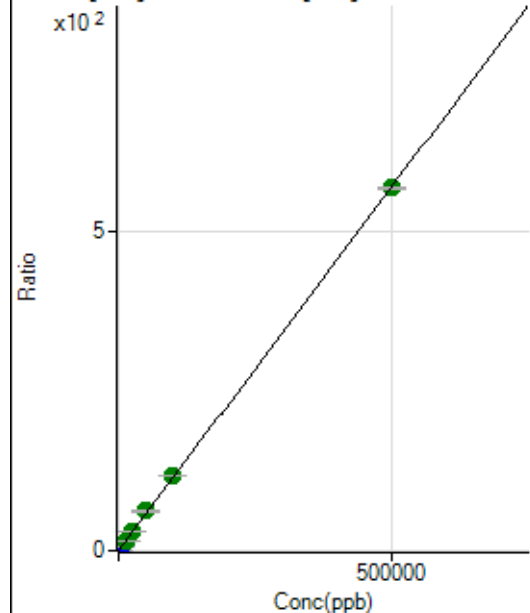
$$R = 0.9999$$

$$DL = 0.4381$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	29313.30	0.3470	P	0.5
2	☐	500.000	497.627	75026.48	0.9151	P	2.5
3	☐	5000.000	5418.269	543370.18	6.5325	P	1.4
4	☐	12500.000	13580.801	1302730.57	15.8507	A	1.2
5	☐	25000.000	26405.115	2545456.44	30.4908	A	1.9
6	☐	50000.000	54161.279	5068908.27	62.1769	A	5.1
7	☐	100000.00	102496.49	10253846.58	117.3558	A	0.8
8	☐	500000.00	498983.11	49463373.67	569.9801	A	0.5

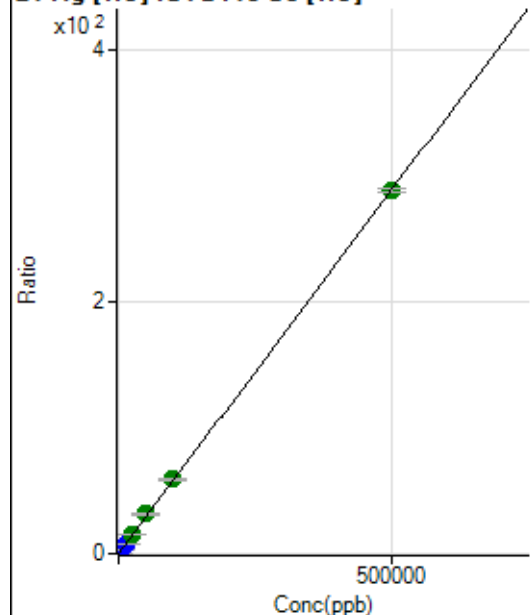
$$y = 0.0011 * x + 0.3470$$

$$R = 1.0000$$

$$DL = 4.314$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	502.80	0.0060	P	8.0
2	☐	500.000	497.680	24078.75	0.2937	P	3.7
3	☐	5000.000	5527.335	266372.21	3.2021	P	0.3
4	☐	12500.000	13711.237	652056.18	7.9344	P	1.7
5	☐	25000.000	26830.916	1295734.31	15.5209	A	2.2
6	☐	50000.000	54753.327	2582303.46	31.6669	A	4.1
7	☐	100000.00	102092.86	5158540.96	59.0409	A	1.4
8	☐	500000.00	498978.99	25039535.63	288.5392	A	1.2

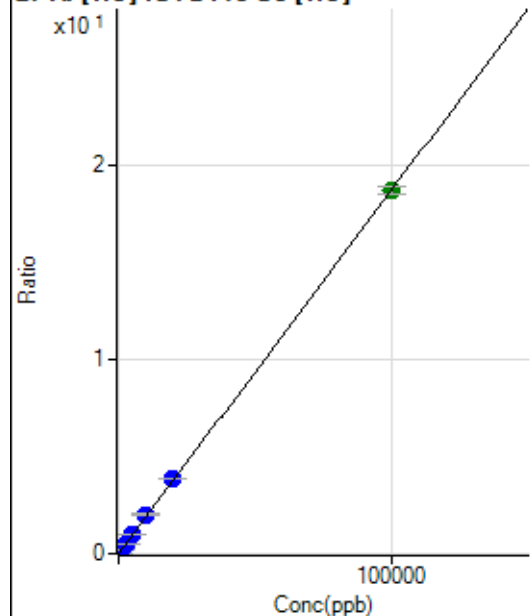
$$y = 5.7825\text{E-}004 * x + 0.0060$$

$$R = 1.0000$$

$$DL = 2.483$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	329.13	0.0039	P	4.2
2	☐	20.000	23.888	686.18	0.0084	P	5.6
3	☐	1000.000	1068.781	16975.25	0.2041	P	1.2
4	☐	2500.000	2656.380	41203.11	0.5014	P	2.3
5	☐	5000.000	5279.100	82872.61	0.9927	P	1.5
6	☐	10000.000	10813.344	165462.19	2.0292	P	4.3
7	☐	20000.000	20480.484	335495.97	3.8398	P	0.9
8	☐	100000.00	99804.016	1622506.74	18.6969	A	2.0

$$y = 1.8730\text{E-}004 * x + 0.0039$$

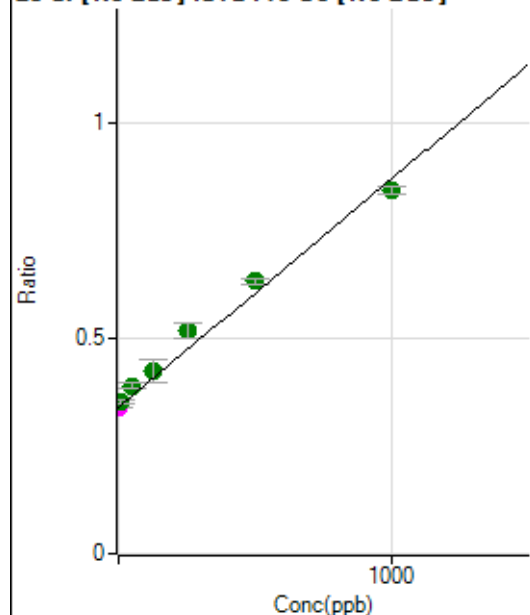
$$R = 1.0000$$

$$DL = 2.642$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	889432.37	0.3410	M	0.5
2	☐	10.000	20.006	892703.91	0.3516	A	2.3
3	☐	50.000	94.645	971034.57	0.3913	A	3.6
4	☐	125.000	159.737	1097304.57	0.4259	A	13.1
5	☐	250.000	335.117	1318395.28	0.5190	A	6.5
6	☐	500.000	550.418	1677114.49	0.6334	A	2.6
7	☐	1000.000	946.837	2318048.81	0.8440	A	2.1
8	☐			1279900.94	0.4791	A	5.1

$$y = 5.3122\text{E-}004 * x + 0.3410$$

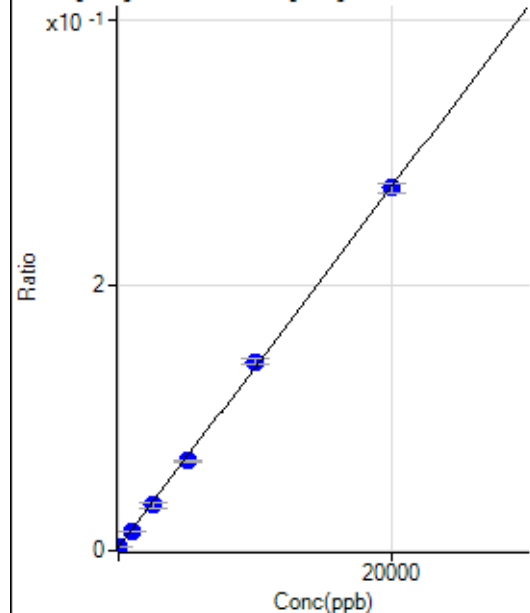
$$R = 0.9938$$

$$DL = 10.04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	2.109	227.79	0.0027	P	20.4
2	☐	0.000	-2.109	216.67	0.0026	P	13.0
3	☐	1000.000	893.005	1230.64	0.0148	P	4.5
4	☐	2500.000	2321.168	2803.13	0.0342	P	15.7
5	☐	5000.000	4787.402	5651.28	0.0677	P	1.8
6	☐	10000.000	10285.445	11610.49	0.1424	P	3.4
7	☐	20000.000	19938.131	23886.89	0.2734	P	2.8
8	☐			225.01	0.0026	P	33.1

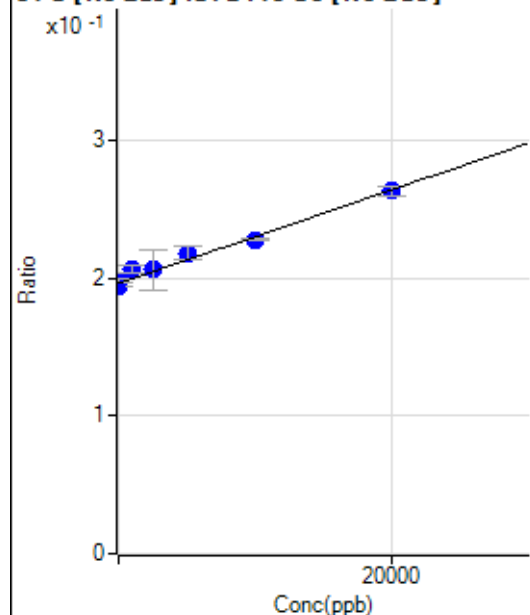
$$y = 1.3581\text{E-}005 * x + 0.0027$$

$$R = 0.9998$$

$$DL = 98.77$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-596.840	506717.69	0.1943	P	0.4
2	☐	0.000	596.840	503474.46	0.1983	P	1.2
3	☐	1000.000	3152.642	513815.25	0.2070	P	3.0
4	☐	2500.000	2960.435	531129.55	0.2064	P	14.4
5	☐	5000.000	6532.780	555407.06	0.2185	P	4.1
6	☐	10000.000	9392.180	604390.99	0.2282	P	1.0
7	☐	20000.000	19755.529	723586.42	0.2635	P	2.7
8	☐			463820.28	0.1736	P	2.9

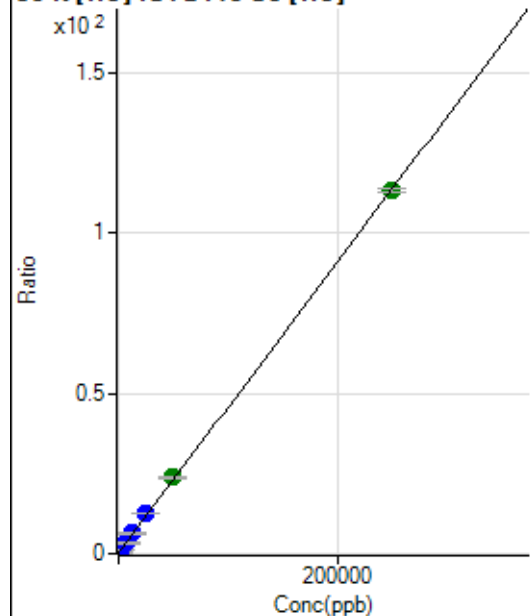
$$y = 3.4004\text{E-}006 * x + 0.1963$$

$$R = 0.9900$$

$$DL = 1405$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	21981.05	0.2603	P	2.9
2	☐	500.000	489.509	39543.78	0.4822	P	1.0
3	☐	2500.000	2715.393	124072.19	1.4914	P	0.8
4	☐	6250.000	6763.841	273423.18	3.3270	P	1.5
5	☐	12500.000	13359.439	527446.49	6.3175	P	1.3
6	☐	25000.000	27241.625	1028272.79	12.6116	P	4.6
7	☐	50000.000	51912.439	2078874.20	23.7974	A	2.8
8	☐	250000.00	249335.39	9833110.03	113.3089	A	1.1

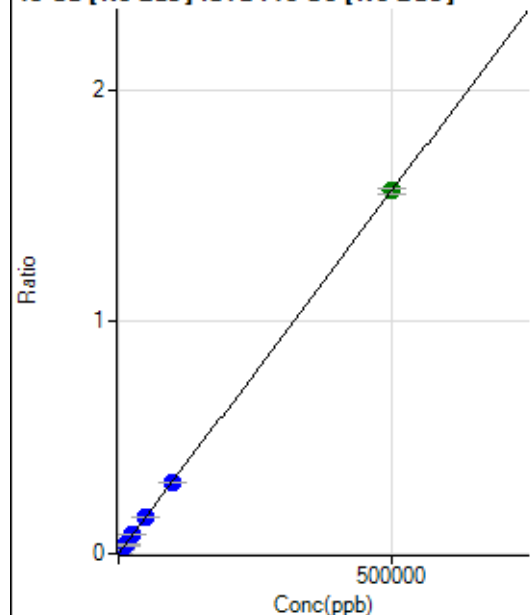
$$y = 4.5340\text{E-}004 * x + 0.2603$$

$$R = 0.9999$$

$$DL = 50.04$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	380.79	0.0001	P	4.6
2	☐	500.000	459.369	4017.99	0.0016	P	3.0
3	☐	5000.000	5214.305	40848.63	0.0165	P	2.8
4	☐	12500.000	12585.251	101652.19	0.0395	P	14.9
5	☐	25000.000	25813.954	205580.95	0.0809	P	4.9
6	☐	50000.000	50446.488	418264.45	0.1580	P	1.3
7	☐	100000.00	98000.903	842380.12	0.3067	P	2.2
8	☐	500000.00	500310.23	4182652.70	1.5652	A	1.4

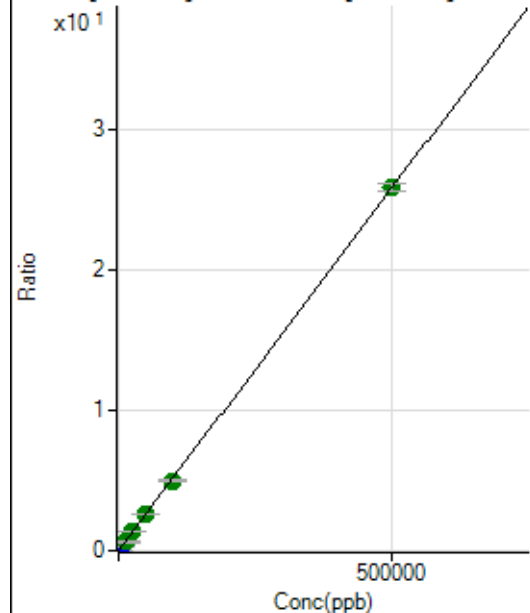
$$y = 3.1282E-006 * x + 1.4599E-004$$

$$R = 1.0000$$

$$DL = 6.404$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23864.25	0.0091	P	1.8
2	☐	500.000	463.726	83845.93	0.0330	P	1.4
3	☐	5000.000	5230.577	691150.47	0.2785	P	3.6
4	☐	12500.000	12549.467	1684466.31	0.6554	A	16.0
5	☐	25000.000	25623.002	3377308.60	1.3286	A	4.0
6	☐	50000.000	49558.959	6782487.41	2.5612	A	0.5
7	☐	100000.00	96627.089	13694450.71	4.9849	A	0.8
8	☐	500000.00	500684.03	68912156.93	25.7917	A	2.0

$$y = 5.1495E-005 * x + 0.0091$$

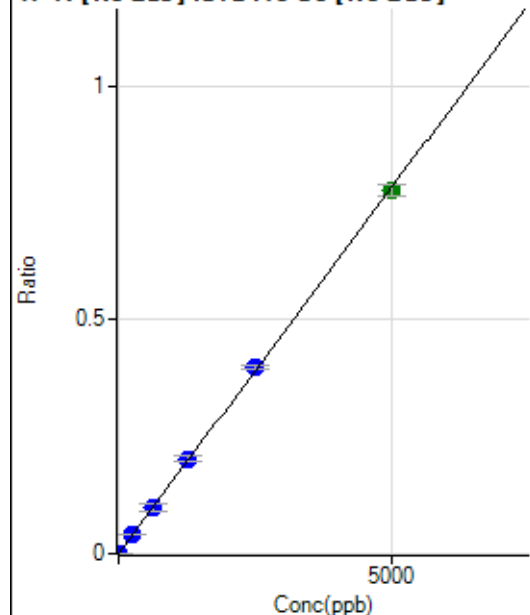
$$R = 1.0000$$

$$DL = 9.516$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	327.79	0.0001	P	16.5
2	☐	5.000	4.542	2125.22	0.0008	P	4.9
3	☐	250.000	264.084	102901.17	0.0415	P	3.8
4	☐	625.000	635.698	256318.76	0.0996	P	14.9
5	☐	1250.000	1298.669	516801.14	0.2034	P	5.5
6	☐	2500.000	2558.388	1060718.11	0.4006	P	1.9
7	☐	5000.000	4956.598	2130801.54	0.7760	A	3.3
8	☐			625.03	0.0002	P	14.2

$$y = 1.5653\text{E-}004 * x + 1.2580\text{E-}004$$

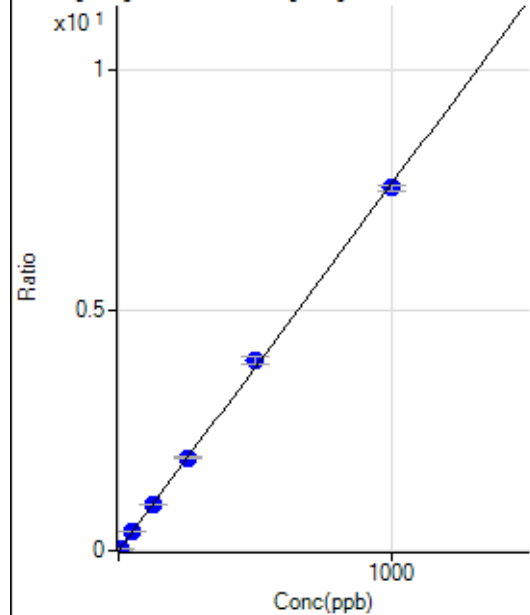
$$R = 0.9998$$

$$DL = 0.3987$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.78	0.0001	P	106.8
2	☐	5.000	4.663	2927.00	0.0357	P	3.4
3	☐	50.000	50.405	32029.16	0.3851	P	1.5
4	☐	125.000	126.885	79637.75	0.9692	P	2.4
5	☐	250.000	252.041	160714.05	1.9251	P	1.9
6	☐	500.000	519.507	323545.48	3.9679	P	4.3
7	☐	1000.000	989.482	660265.86	7.5573	P	1.8
8	☐			192.23	0.0022	P	9.5

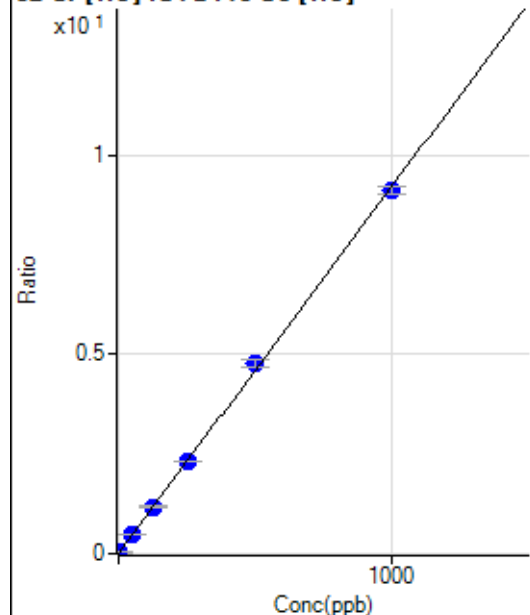
$$y = 0.0076 * x + 9.1594\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.03844$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	568.91	0.0067	P	5.0
2	☐	2.000	2.017	2073.51	0.0253	P	7.7
3	☐	50.000	50.770	39430.89	0.4740	P	1.5
4	☐	125.000	127.496	96970.15	1.1802	P	3.3
5	☐	250.000	251.116	193522.32	2.3180	P	1.5
6	☐	500.000	520.357	391087.43	4.7962	P	4.3
7	☐	1000.000	989.192	795975.24	9.1113	P	2.2
8	☐			15660.87	0.1805	P	1.5

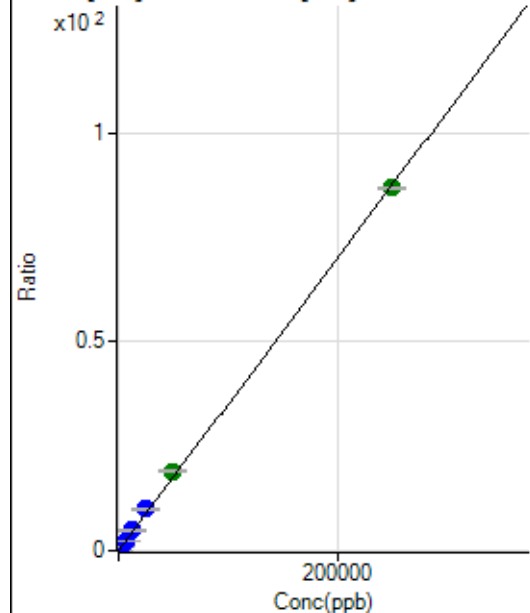
$$y = 0.0092 * x + 0.0067$$

$$R = 0.9997$$

$$DL = 0.1104$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	333.34	0.0039	P	22.2
2	☐	50.000	54.307	1879.79	0.0229	P	1.8
3	☐	2500.000	2807.110	81905.84	0.9847	P	1.3
4	☐	6250.000	6997.543	201198.98	2.4487	P	2.7
5	☐	12500.000	13912.601	406123.57	4.8646	P	1.5
6	☐	25000.000	28621.215	815725.46	10.0033	P	4.2
7	☐	50000.000	54550.303	1665536.48	19.0621	A	0.7
8	☐	250000.00	248635.42	7538629.68	86.8694	A	0.2

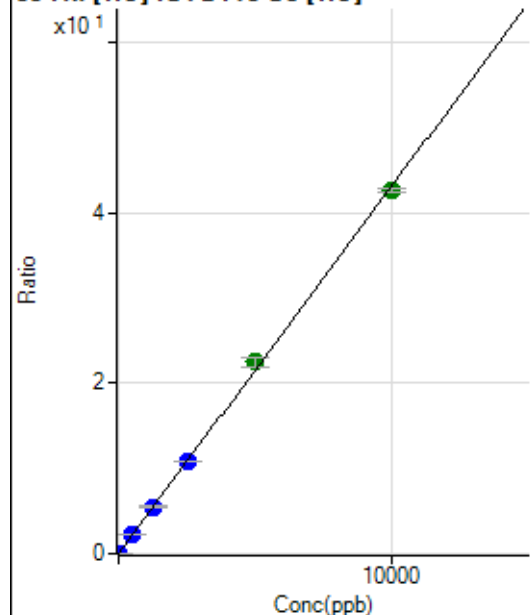
$$y = 3.4937E-004 * x + 0.0039$$

$$R = 0.9998$$

$$DL = 7.536$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	105.56	0.0012	P	6.6
2	☐	1.000	0.968	445.57	0.0054	P	9.5
3	☐	500.000	514.252	184696.98	2.2204	P	1.3
4	☐	1250.000	1281.345	454418.19	5.5307	P	2.9
5	☐	2500.000	2524.105	909519.12	10.8936	P	0.9
6	☐	5000.000	5220.338	1837019.84	22.5288	A	4.4
7	☐	10000.000	9879.174	3724954.04	42.6333	A	1.0
8	☐			4574.12	0.0527	P	4.1

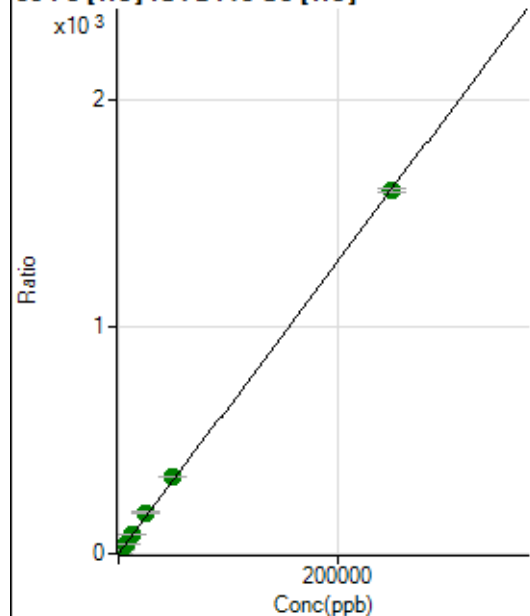
$$y = 0.0043 * x + 0.0012$$

$$R = 0.9996$$

$$DL = 0.05738$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2142.80	0.0254	P	3.6
2	☐	50.000	52.002	29501.14	0.3598	P	2.2
3	☐	2500.000	2778.366	1488506.51	17.8951	A	1.6
4	☐	6250.000	6965.100	3682808.94	44.8231	A	3.1
5	☐	12500.000	13623.900	7317932.75	87.6508	A	1.5
6	☐	25000.000	27969.453	14673052.64	179.9177	A	3.7
7	☐	50000.000	53089.411	29835693.72	341.4829	A	1.1
8	☐	250000.00	249008.31	138988718.8	1601.583	A	1.0

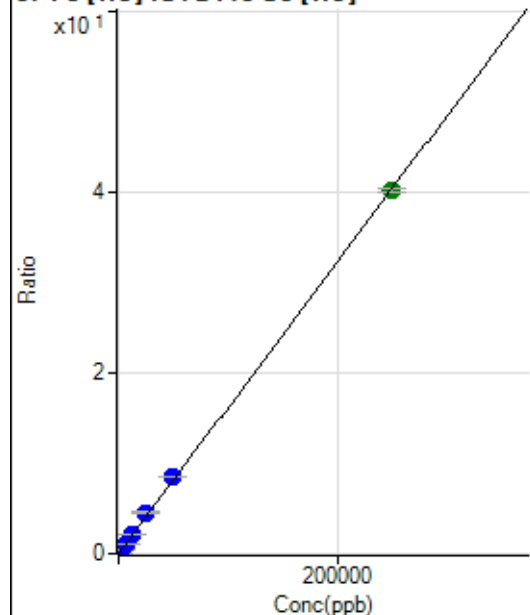
$$y = 0.0064 * x + 0.0254$$

$$R = 0.9999$$

$$DL = 0.4232$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.11	0.0013	P	9.8
2	☐	50.000	54.301	825.97	0.0101	P	5.6
3	☐	2500.000	2726.313	36667.74	0.4409	P	2.9
4	☐	6250.000	6862.134	91008.58	1.1077	P	3.0
5	☐	12500.000	13629.669	183564.23	2.1988	P	1.4
6	☐	25000.000	27885.878	366722.25	4.4972	P	4.1
7	☐	50000.000	53016.845	746917.69	8.5489	P	1.2
8	☐	250000.00	249033.99	3484458.85	40.1517	A	1.0

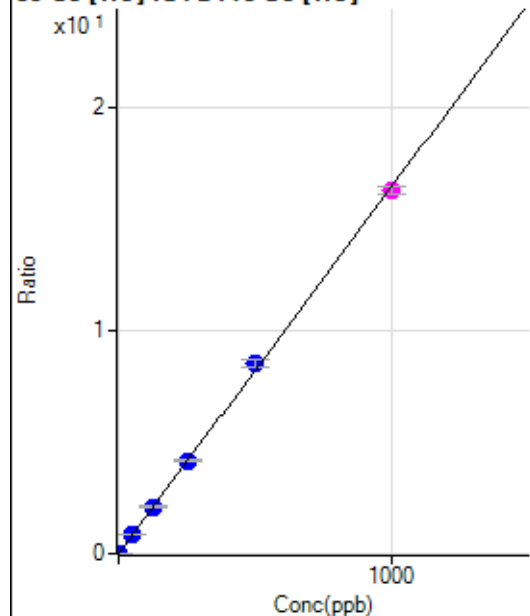
$$y = 1.6122E-004 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 2.399$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46.67	0.0006	P	51.0
2	☐	1.000	0.922	1286.74	0.0157	P	3.8
3	☐	50.000	51.811	70803.72	0.8512	P	0.7
4	☐	125.000	127.998	172707.31	2.1019	P	3.0
5	☐	250.000	254.103	348343.00	4.1723	P	0.9
6	☐	500.000	519.031	694857.80	8.5217	P	4.4
7	☐	1000.000	988.994	1418558.11	16.2372	M	2.0
8	☐			2808.08	0.0324	P	2.6

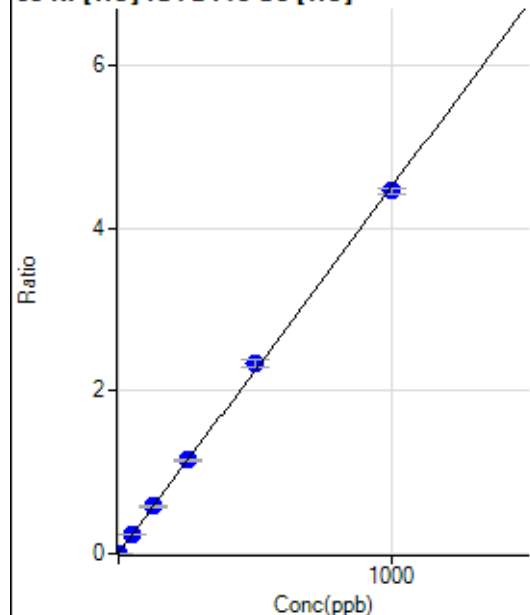
$$y = 0.0164 * x + 5.5385E-004$$

$$R = 0.9997$$

$$DL = 0.05157$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	361.12	0.0043	P	6.3
2	☐	1.000	1.065	743.36	0.0091	P	7.8
3	☐	50.000	52.458	19983.03	0.2402	P	2.5
4	☐	125.000	128.024	47669.54	0.5802	P	2.7
5	☐	250.000	253.921	95722.51	1.1465	P	0.9
6	☐	500.000	518.570	190576.26	2.3370	P	4.0
7	☐	1000.000	989.234	389135.87	4.4542	P	1.8
8	☐			5630.05	0.0649	P	5.6

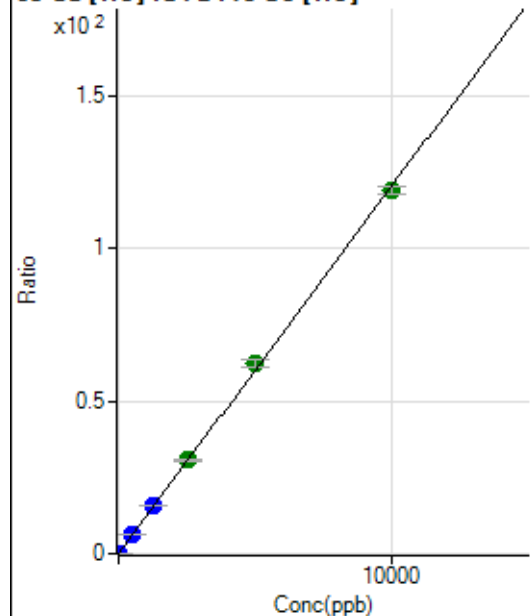
$$y = 0.0045 * x + 0.0043$$

$$R = 0.9997$$

$$DL = 0.1809$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1170.06	0.0139	P	1.4
2	☐	2.000	2.178	3283.75	0.0400	P	3.3
3	☐	500.000	526.033	527198.93	6.3380	P	1.2
4	☐	1250.000	1304.477	1289689.15	15.6967	P	2.9
5	☐	2500.000	2550.295	2560657.15	30.6742	A	2.4
6	☐	5000.000	5201.553	5100567.91	62.5485	A	4.2
7	☐	10000.000	9878.539	10376421.44	118.7766	A	2.1
8	☐			10033.65	0.1156	P	1.5

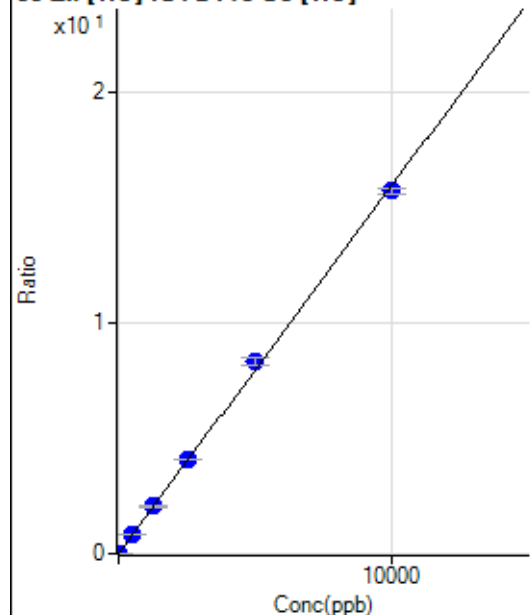
$$y = 0.0120 * x + 0.0139$$

$$R = 0.9997$$

$$DL = 0.04709$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	68.89	0.0008	P	17.7
2	☐	2.000	1.954	322.23	0.0039	P	2.5
3	☐	500.000	523.274	69446.66	0.8349	P	1.4
4	☐	1250.000	1289.686	168981.95	2.0565	P	2.5
5	☐	2500.000	2558.311	340511.43	4.0787	P	1.4
6	☐	5000.000	5227.907	679504.12	8.3339	P	4.6
7	☐	10000.000	9865.345	1373941.39	15.7259	P	1.4
8	☐			4979.80	0.0574	P	3.5

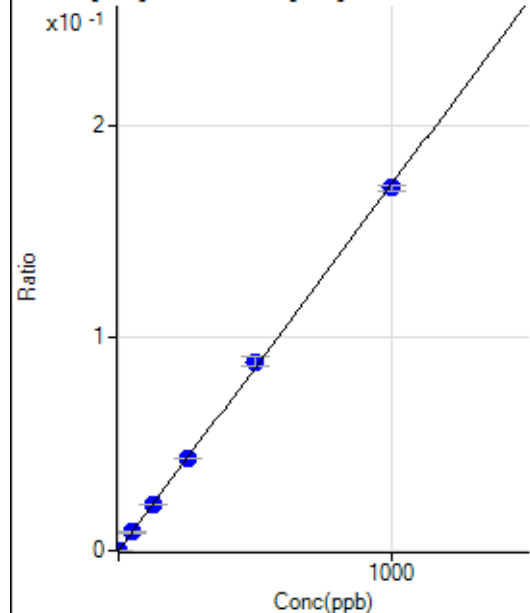
$$y = 0.0016 * x + 8.1622E-004$$

$$R = 0.9996$$

$$DL = 0.2726$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.00	0.0000	P	32.1
2	☐	1.000	0.914	98.34	0.0002	P	8.3
3	☐	50.000	50.149	5092.44	0.0087	P	3.4
4	☐	125.000	127.043	12658.61	0.0219	P	2.0
5	☐	250.000	252.212	25497.80	0.0435	P	1.3
6	☐	500.000	516.959	51284.24	0.0891	P	4.2
7	☐	1000.000	990.705	104776.66	0.1707	P	1.4
8	☐			46.67	0.0001	P	16.3

$$y = 1.7227E-004 * x + 1.3545E-005$$

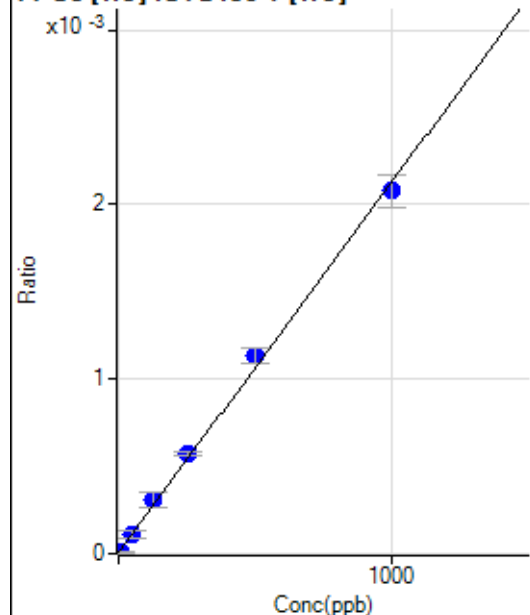
$$R = 0.9998$$

$$DL = 0.07579$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.7
2	☐	5.000	1.046	4.45	0.0000	P	86.6
3	☐	50.000	48.980	64.44	0.0001	P	42.0
4	☐	125.000	144.693	180.00	0.0003	P	27.7
5	☐	250.000	267.041	335.56	0.0006	P	4.3
6	☐	500.000	532.091	652.24	0.0011	P	7.6
7	☐	1000.000	977.303	1274.52	0.0021	P	9.1
8	☐			2.22	0.0000	P	86.6

$$y = 2.1203\text{E-}006 * x + 5.6144\text{E-}006$$

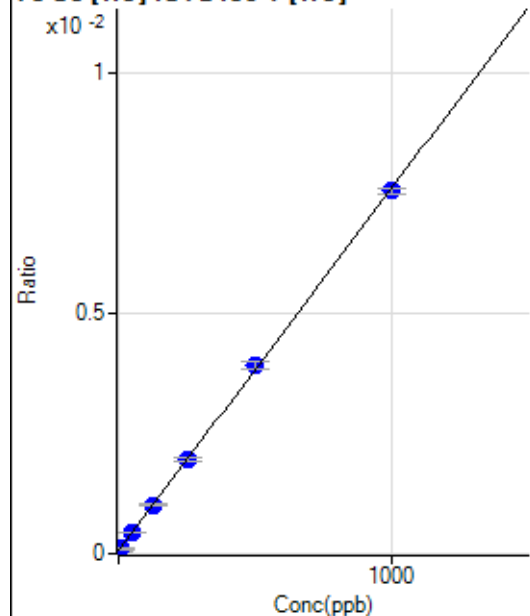
$$R = 0.9988$$

$$DL = 7.919$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.67	0.0001	P	18.8
2	☐	5.000	5.361	59.01	0.0001	P	7.3
3	☐	50.000	51.349	264.36	0.0004	P	3.7
4	☐	125.000	125.723	583.41	0.0010	P	5.1
5	☐	250.000	252.842	1154.50	0.0020	P	3.5
6	☐	500.000	512.031	2258.75	0.0039	P	3.4
7	☐	1000.000	993.114	4632.24	0.0075	P	1.6
8	☐			38.33	0.0001	P	9.1

$$y = 7.5356\text{E-}006 * x + 6.2269\text{E-}005$$

$$R = 0.9999$$

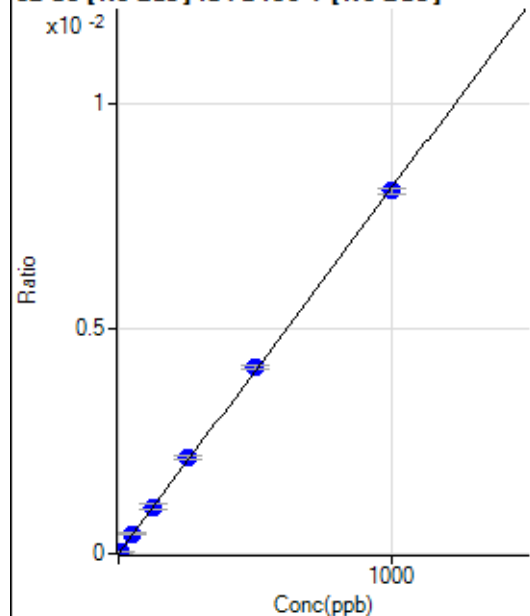
$$DL = 4.65$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3263.74		P	3.2
2	☐			2879.93		P	6.8
3	☐			3000.10		P	6.9
4	☐			3063.50		P	3.3
5	☐			3006.74		P	7.9
6	☐			3046.80		P	4.9
7	☐			3070.18		P	6.7
8	☐			3050.16		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12.91	0.0000	P	539.3
2	☐	5.000	5.734	282.48	0.0000	P	8.0
3	☐	50.000	53.987	2476.31	0.0004	P	5.6
4	☐	125.000	128.241	6090.53	0.0010	P	14.4
5	☐	250.000	261.028	12298.28	0.0021	P	4.5
6	☐	500.000	508.771	25034.87	0.0041	P	1.7
7	☐	1000.000	992.249	50238.37	0.0081	P	1.5
8	☐			-2.76	0.0000	P	-4402.

$$y = 8.1378\text{E-}006 * x + 2.2871\text{E-}006$$

$$R = 0.9999$$

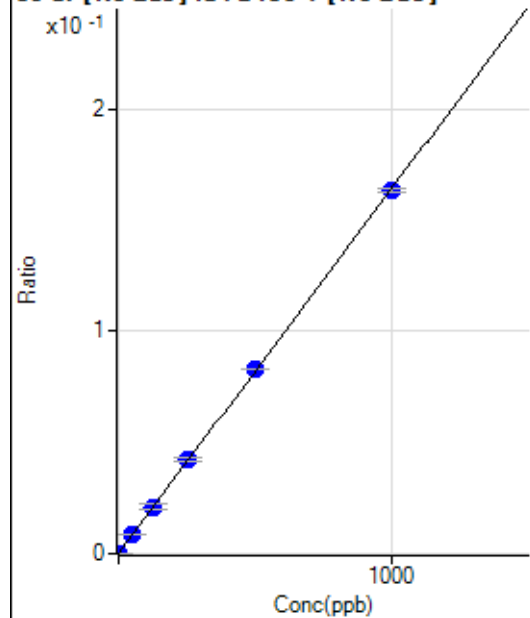
$$DL = 4.547$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			397.79		P	14.8
2	☐			386.67		P	11.4
3	☐			443.34		P	3.0
4	☐			445.57		P	15.0
5	☐			440.01		P	8.6
6	☐			371.12		P	6.4
7	☐			433.34		P	11.2
8	☐			467.79		P	15.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	663.93	0.0001	P	5.1
2	☐	1.000	1.046	1641.80	0.0003	P	5.3
3	☐	50.000	53.023	49387.75	0.0088	P	2.8
4	☐	125.000	127.496	122391.93	0.0210	P	13.8
5	☐	250.000	258.273	245499.38	0.0424	P	3.7
6	☐	500.000	506.030	501920.48	0.0830	P	0.7
7	☐	1000.000	994.453	1014526.41	0.1631	P	1.0
8	☐			6187.65	0.0010	P	2.6

$$y = 1.6390E-004 * x + 1.1293E-004$$

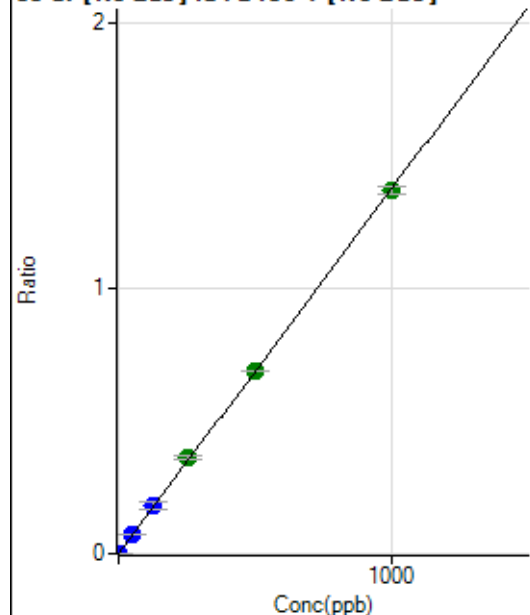
$$R = 0.9999$$

$$DL = 0.1044$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	188.90	0.0000	P	8.7
2	☐	1.000	0.930	7560.56	0.0013	P	1.7
3	☐	50.000	54.322	418546.79	0.0746	P	3.4
4	☐	125.000	132.577	1060467.29	0.1821	P	13.9
5	☐	250.000	263.425	2091413.61	0.3617	A	5.5
6	☐	500.000	501.569	4162290.20	0.6887	A	0.7
7	☐	1000.000	994.696	8493804.79	1.3657	A	2.3
8	☐			48682.90	0.0079	P	1.8

$$y = 0.0014 * x + 3.2130E-005$$

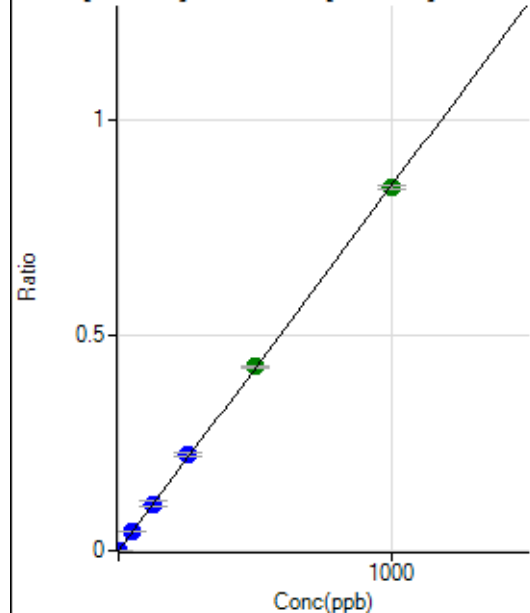
$$R = 0.9999$$

$$DL = 0.006118$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	283.34	0.0000	P	17.0
2	☐	1.000	0.979	5053.82	0.0009	P	1.9
3	☐	50.000	53.036	251751.02	0.0449	P	4.1
4	☐	125.000	129.000	635565.66	0.1091	P	14.0
5	☐	250.000	262.896	1285909.53	0.2223	P	3.8
6	☐	500.000	504.204	2576551.73	0.4263	A	0.8
7	☐	1000.000	994.022	5227839.09	0.8405	A	1.1
8	☐			1633.48	0.0003	P	4.5

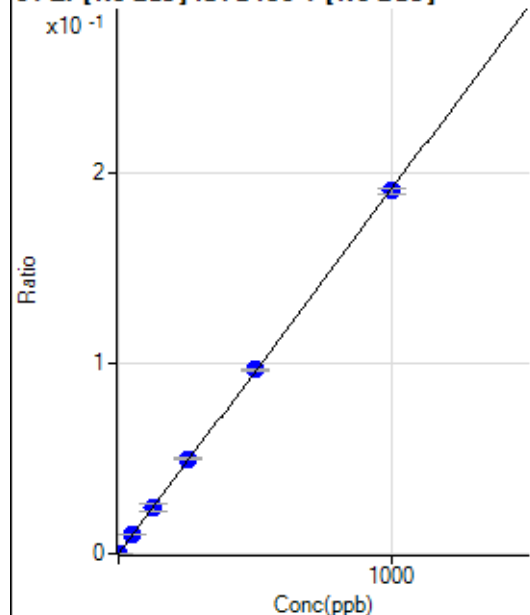
$$y = 8.4546E-004 * x + 4.8167E-005$$

$$R = 0.9999$$

$$DL = 0.02902$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	43.0
2	☐	1.000	0.968	1105.63	0.0002	P	9.3
3	☐	50.000	52.111	56141.38	0.0100	P	3.6
4	☐	125.000	127.521	142583.52	0.0245	P	14.3
5	☐	250.000	259.833	288609.60	0.0499	P	2.7
6	☐	500.000	504.052	584825.40	0.0968	P	0.5
7	☐	1000.000	995.095	1188130.37	0.1910	P	1.7
8	☐			375.02	0.0001	P	13.2

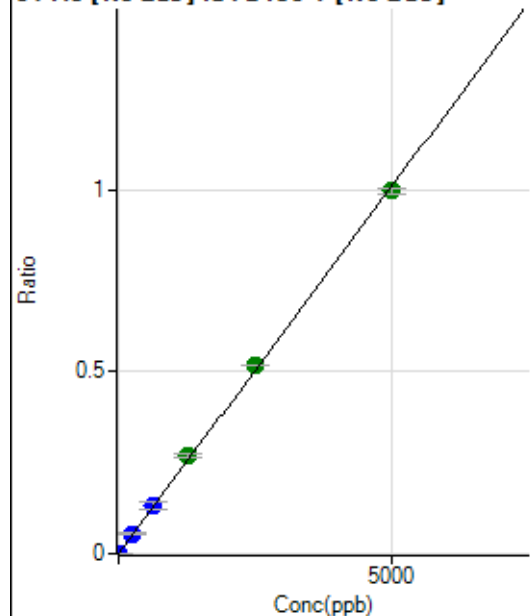
$$y = 1.9196\text{E-}004 * x + 5.6670\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.03807$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.34	0.0000	P	36.7
2	☐	5.000	4.756	5615.19	0.0010	P	4.0
3	☐	250.000	270.614	305924.91	0.0546	P	5.0
4	☐	625.000	650.514	763452.84	0.1311	P	14.5
5	☐	1250.000	1329.657	1550123.53	0.2680	A	4.2
6	☐	2500.000	2565.770	3125488.28	0.5171	A	0.4
7	☐	5000.000	4942.981	6196427.96	0.9963	A	1.9
8	☐			3917.32	0.0006	P	4.7

$$y = 2.0155\text{E-}004 * x + 1.4199\text{E-}005$$

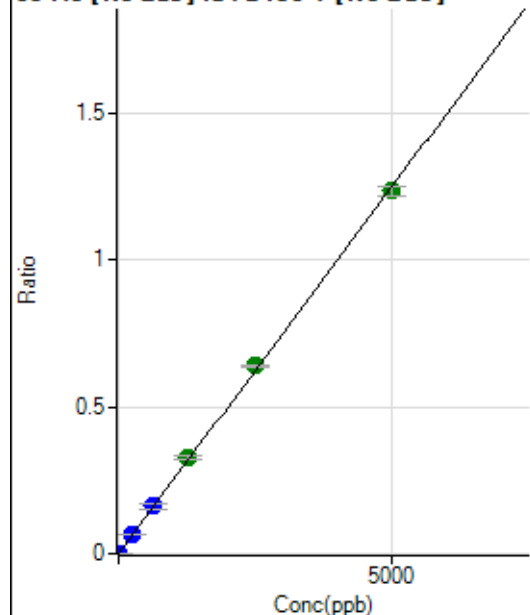
$$R = 0.9997$$

$$DL = 0.07749$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	12.5
2	☐	5.000	4.761	6888.02	0.0012	P	2.5
3	☐	250.000	269.313	376657.55	0.0672	P	4.2
4	☐	625.000	647.907	940627.84	0.1616	P	14.5
5	☐	1250.000	1305.259	1882584.83	0.3255	A	3.9
6	☐	2500.000	2561.503	3859917.14	0.6387	A	1.7
7	☐	5000.000	4951.605	7678506.07	1.2347	A	2.7
8	☐			5979.22	0.0010	P	3.8

$$y = 2.4935E-004 * x + 6.1399E-006$$

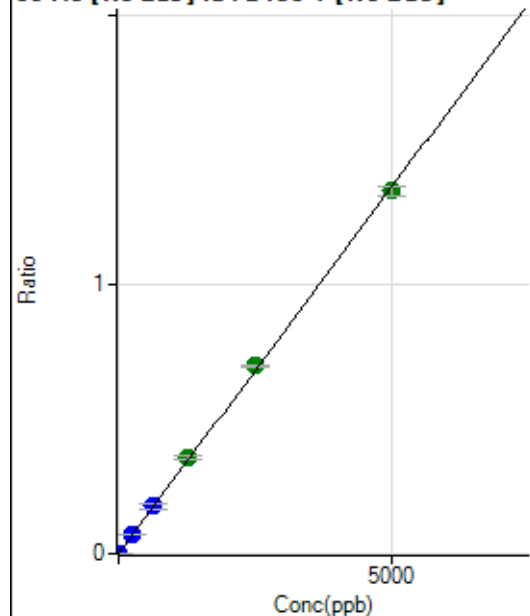
$$R = 0.9998$$

$$DL = 0.009253$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	1.1
2	☐	5.000	4.938	7805.20	0.0014	P	8.4
3	☐	250.000	270.048	412755.65	0.0736	P	2.7
4	☐	625.000	648.525	1029031.21	0.1767	P	14.0
5	☐	1250.000	1308.212	2061011.57	0.3564	A	4.8
6	☐	2500.000	2560.205	4214876.44	0.6974	A	1.4
7	☐	5000.000	4951.401	8388386.21	1.3488	A	2.7
8	☐			6896.37	0.0011	P	6.4

$$y = 2.7241E-004 * x + 7.0902E-006$$

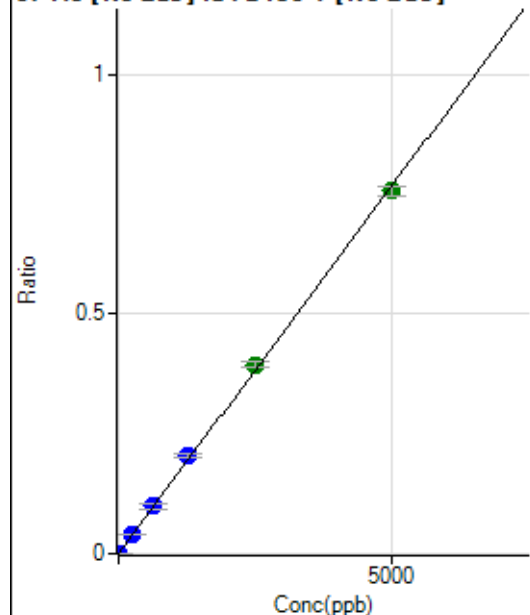
$$R = 0.9998$$

$$DL = 0.0008594$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	35.2
2	☐	5.000	5.089	4511.99	0.0008	P	3.5
3	☐	250.000	265.529	228025.50	0.0407	P	4.5
4	☐	625.000	645.596	576148.49	0.0989	P	13.2
5	☐	1250.000	1326.023	1174444.30	0.2030	P	3.9
6	☐	2500.000	2576.722	2384118.76	0.3945	A	3.0
7	☐	5000.000	4939.282	4703617.25	0.7563	A	2.4
8	☐			3828.41	0.0006	P	8.7

$$y = 1.5312E-004 * x + 2.3676E-006$$

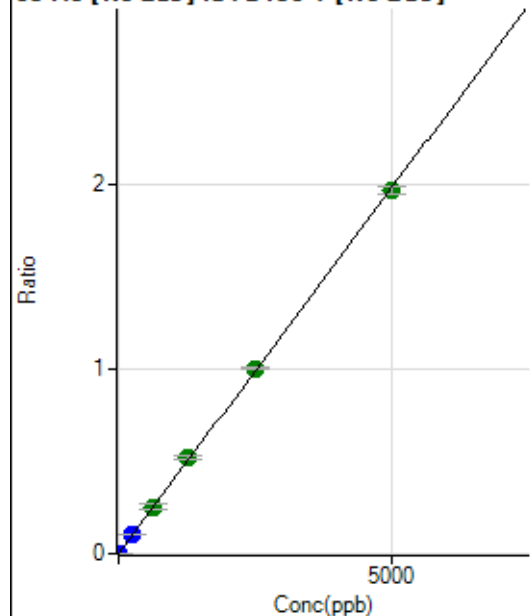
$$R = 0.9997$$

$$DL = 0.01635$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	5.000	4.760	10898.99	0.0019	P	1.7
3	☐	250.000	266.850	592970.67	0.1057	P	4.3
4	☐	625.000	643.571	1486381.26	0.2550	A	13.0
5	☐	1250.000	1318.414	3021560.83	0.5224	A	3.7
6	☐	2500.000	2534.034	6067593.71	1.0040	A	1.4
7	☐	5000.000	4962.716	12229311.99	1.9663	A	2.0
8	☐			9314.49	0.0015	P	4.8

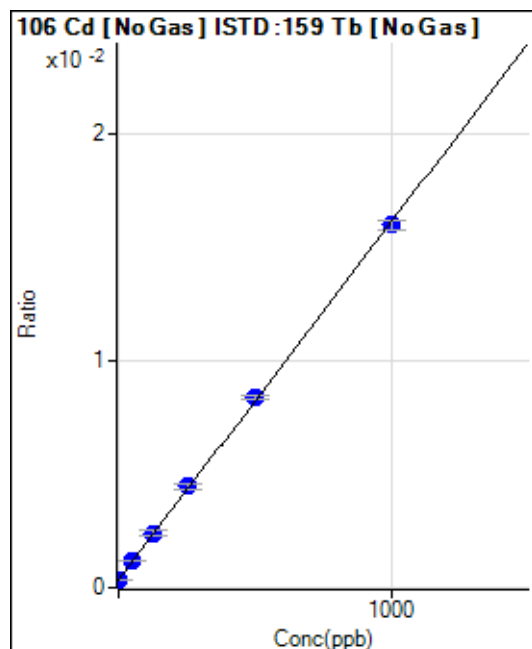
$$y = 3.9621E-004 * x + 1.8793E-006$$

$$R = 0.9999$$

$$DL = 0.01232$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1622.36	0.0003	P	4.5
2	☐	1.000	-0.495	1564.02	0.0003	P	3.5
3	☐	50.000	54.554	5417.88	0.0012	P	1.7
4	☐	125.000	130.091	11127.01	0.0024	P	11.4
5	☐	250.000	261.604	20738.33	0.0045	P	5.7
6	☐	500.000	510.148	40852.65	0.0084	P	1.4
7	☐	1000.000	991.162	80518.11	0.0160	P	2.6
8	☐			1558.47	0.0003	P	3.7

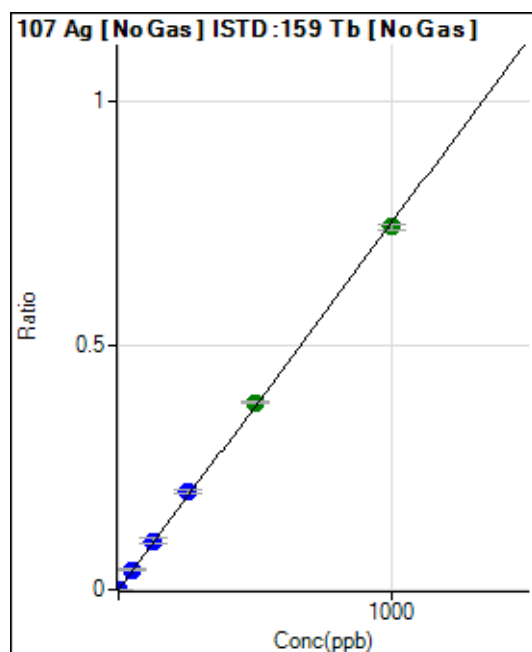
$$y = 1.5800\text{E-}005 * x + 3.4682\text{E-}004$$

$$R = 0.9998$$

$$DL = 2.972$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	20.1
2	☐	1.000	0.933	3294.93	0.0007	P	2.9
3	☐	50.000	54.636	184016.10	0.0411	P	2.7
4	☐	125.000	133.367	463467.61	0.1003	P	13.9
5	☐	250.000	269.222	936916.29	0.2024	P	4.2
6	☐	500.000	509.672	1861505.01	0.3831	A	0.8
7	☐	1000.000	989.081	3739939.97	0.7434	A	1.8
8	☐			2025.21	0.0004	P	2.5

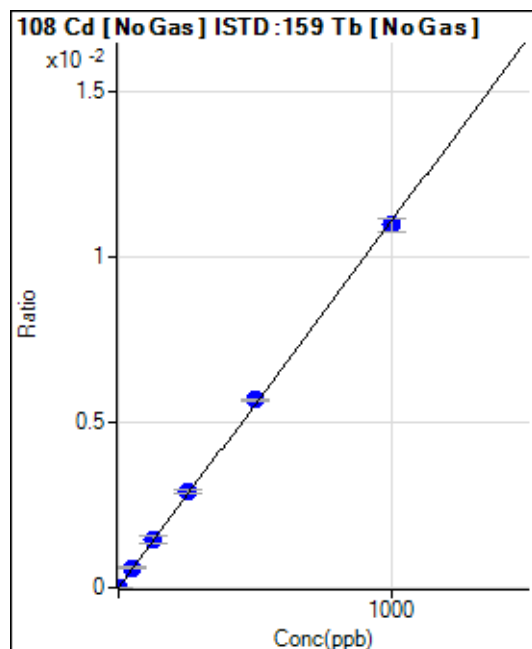
$$y = 7.5162\text{E-}004 * x + 1.3045\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.01046$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	68.5
2	☐	1.000	0.928	61.11	0.0000	P	9.8
3	☐	50.000	54.434	2715.58	0.0006	P	5.7
4	☐	125.000	132.402	6789.25	0.0015	P	15.6
5	☐	250.000	262.669	13495.62	0.0029	P	3.0
6	☐	500.000	512.117	27591.56	0.0057	P	1.1
7	☐	1000.000	989.627	55168.12	0.0110	P	3.8
8	☐			95.84	0.0000	P	6.1

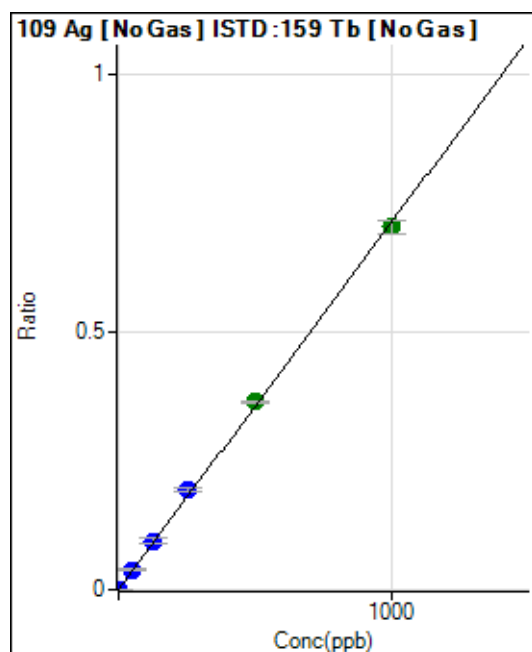
$$y = 1.1082\text{E-}005 * x + 2.9574\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.5483$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	41.7
2	☐	1.000	1.004	3328.27	0.0007	P	1.8
3	☐	50.000	54.781	174800.49	0.0390	P	3.7
4	☐	125.000	132.659	437192.16	0.0945	P	12.9
5	☐	250.000	270.300	891483.52	0.1926	P	4.3
6	☐	500.000	511.723	1771277.75	0.3645	A	1.0
7	☐	1000.000	987.867	3539082.15	0.7037	A	3.5
8	☐			1764.04	0.0004	P	3.7

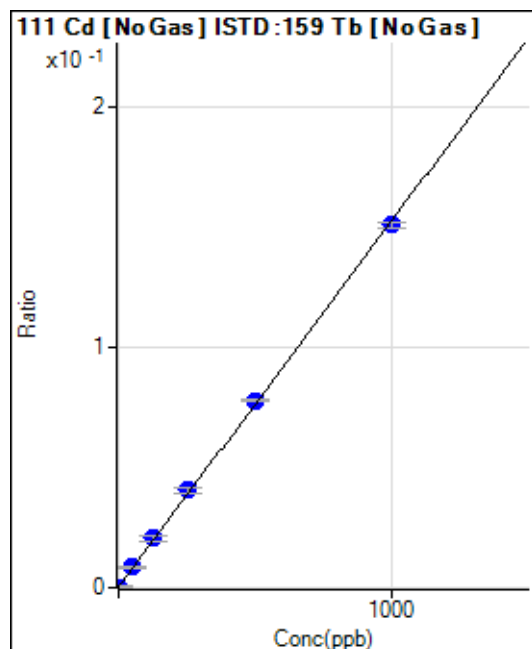
$$y = 7.1234\text{E-}004 * x + 6.5376\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.01149$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1132.88	0.0002	P	4.9
2	☐	1.000	1.015	1829.85	0.0004	P	3.7
3	☐	50.000	54.264	38073.92	0.0085	P	3.0
4	☐	125.000	132.471	94378.53	0.0204	P	12.9
5	☐	250.000	265.279	187972.07	0.0406	P	5.1
6	☐	500.000	510.304	378514.74	0.0779	P	0.6
7	☐	1000.000	989.881	759001.72	0.1509	P	1.5
8	☐			1428.02	0.0003	P	2.3

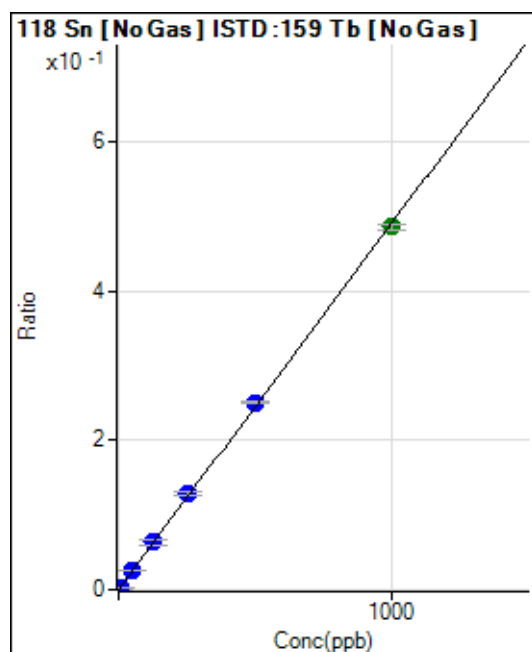
$$y = 1.5217\text{E-}004 * x + 2.4219\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.2363$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	263.90	0.0001	P	21.5
2	☐	5.000	4.667	10826.81	0.0023	P	2.7
3	☐	50.000	53.173	117132.51	0.0262	P	3.4
4	☐	125.000	129.840	294816.47	0.0638	P	14.0
5	☐	250.000	261.584	594648.84	0.1284	P	3.9
6	☐	500.000	510.813	1218299.25	0.2507	P	1.5
7	☐	1000.000	990.935	2446657.00	0.4864	A	1.7
8	☐			1625.14	0.0003	P	5.9

$$y = 4.9075\text{E-}004 * x + 5.6308\text{E-}005$$

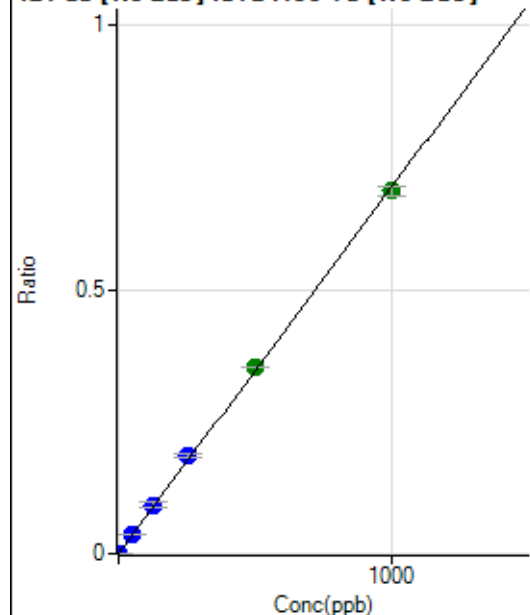
$$R = 0.9998$$

$$DL = 0.07396$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	142.6
2	☐	2.000	1.928	6190.46	0.0013	P	8.8
3	☐	50.000	54.008	167834.59	0.0375	P	3.3
4	☐	125.000	132.110	424216.69	0.0917	P	12.2
5	☐	250.000	267.044	857808.98	0.1853	P	3.7
6	☐	500.000	508.782	1715053.79	0.3530	A	0.9
7	☐	1000.000	990.259	3455280.50	0.6870	A	2.8
8	☐			2972.63	0.0006	P	8.3

$$y = 6.9371\text{E-}004 * x + 4.8031\text{E-}006$$

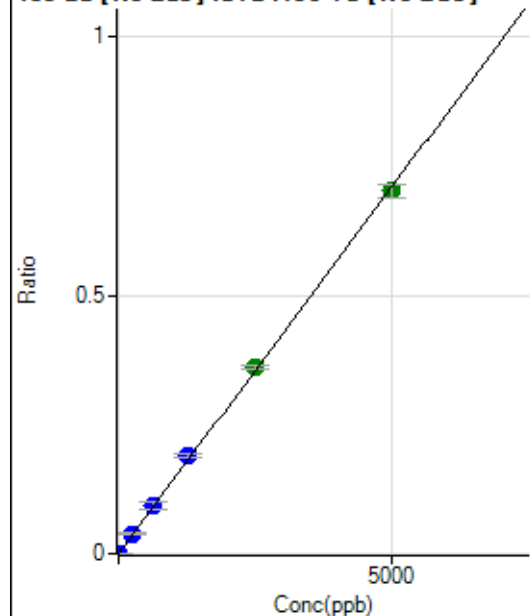
$$R = 0.9998$$

$$DL = 0.02961$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	55.9
2	☐	10.000	9.347	6143.24	0.0013	P	1.9
3	☐	250.000	271.502	172455.27	0.0385	P	3.3
4	☐	625.000	655.969	430255.27	0.0930	P	13.1
5	☐	1250.000	1335.786	876788.44	0.1894	P	4.7
6	☐	2500.000	2544.161	1752874.23	0.3607	A	1.5
7	☐	5000.000	4951.528	3530809.06	0.7021	A	3.7
8	☐			6676.83	0.0014	P	1.0

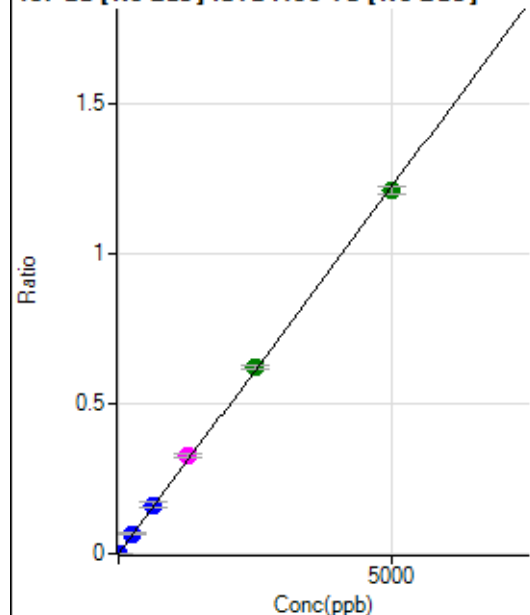
$$y = 1.4179\text{E-}004 * x + 6.5065\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.077$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0000	P	58.1
2	☐	10.000	9.932	11257.75	0.0024	P	2.4
3	☐	250.000	272.575	298917.11	0.0667	P	2.4
4	☐	625.000	666.899	755422.47	0.1632	P	12.5
5	☐	1250.000	1338.479	1517076.86	0.3276	M	4.0
6	☐	2500.000	2552.740	3035896.81	0.6248	A	1.9
7	☐	5000.000	4945.144	6088410.68	1.2104	A	2.1
8	☐			11455.09	0.0023	P	0.5

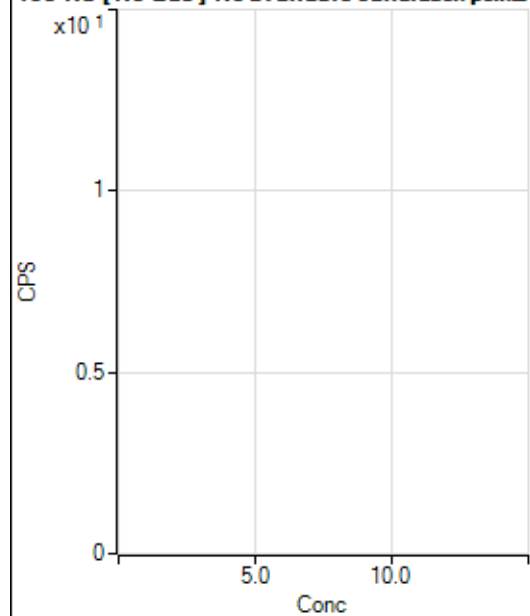
$$y = 2.4476E-004 * x + 9.5365E-006$$

$$R = 0.9997$$

$$DL = 0.06791$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

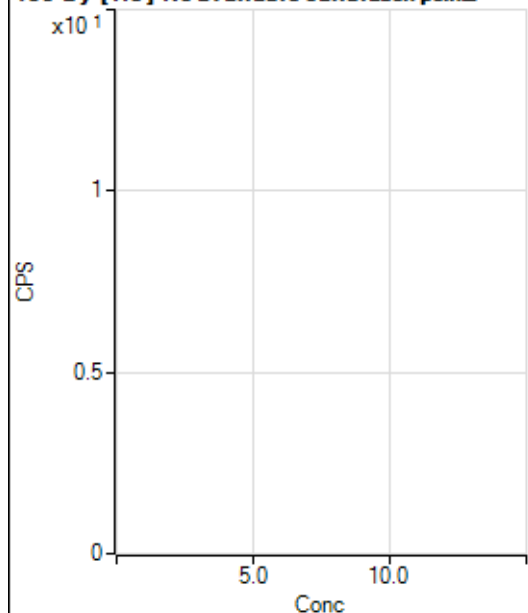
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			13.33		P	50.0
3	☐			2.22		P	173.2
4	☐			31.11		P	44.6
5	☐			31.11		P	12.4
6	☐			64.44		P	48.9
7	☐			131.12		P	12.8
8	☐			11.11		P	91.7

150 Nd [He] No available calibration points

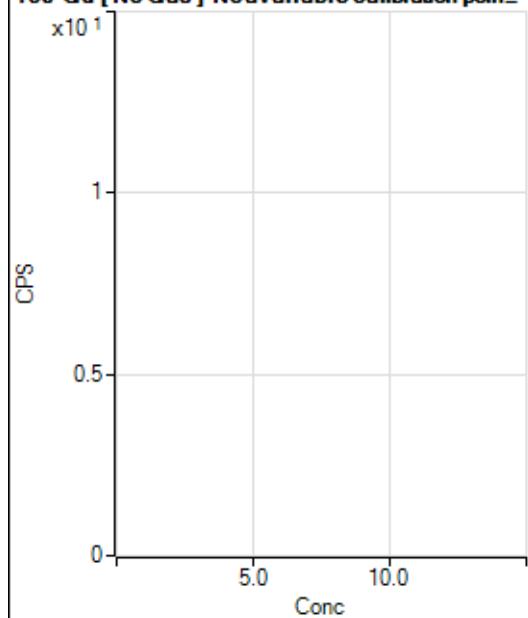
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			2.22		P	86.6
5	☐			0.00		P	
6	☐			5.56		P	34.7
7	☐			11.11		P	86.6
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	50.0
2	☐			11.11		P	173.2
3	☐			27.78		P	17.3
4	☐			25.00		P	57.7
5	☐			30.56		P	15.7
6	☐			50.00		P	33.3
7	☐			94.45		P	18.4
8	☐			244.45		P	26.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	100.1
3	☐			2.22		P	173.2
4	☐			12.22		P	15.7
5	☐			2.22		P	86.6
6	☐			20.00		P	28.9
7	☐			33.33		P	26.5
8	☐			104.45		P	12.1

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.22		P	56.7
2	☐			52.78		P	39.7
3	☐			38.89		P	44.6
4	☐			47.22		P	10.2
5	☐			61.11		P	20.8
6	☐			58.33		P	42.9
7	☐			69.45		P	30.2
8	☐			291.68		P	4.9

160 Gd [He] No available calibration points

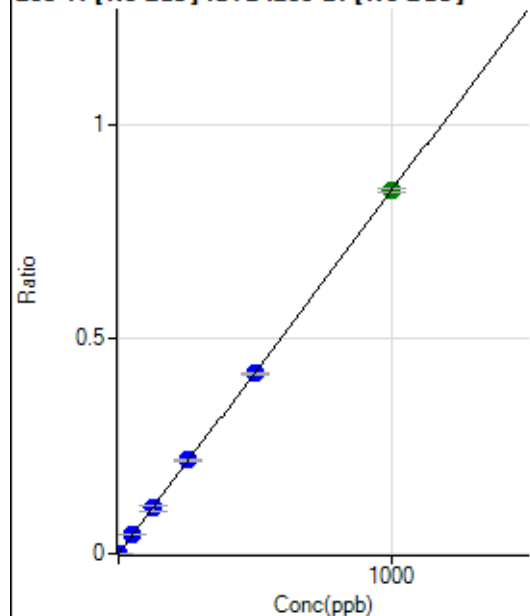
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	25.0
2	☐			10.00		P	57.7
3	☐			17.78		P	57.3
4	☐			11.11		P	45.8
5	☐			26.67		P	43.3
6	☐			14.45		P	26.7
7	☐			37.78		P	13.5
8	☐			118.89		P	18.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	69.3
2	☐			19.44		P	99.0
3	☐			30.56		P	41.7
4	☐			27.78		P	34.6
5	☐			38.89		P	75.3
6	☐			25.00		P	33.3
7	☐			30.56		P	41.7
8	☐			52.78		P	48.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			7.78		P	24.7
2	☐			8.89		P	78.1
3	☐			8.89		P	78.1
4	☐			7.78		P	24.7
5	☐			7.78		P	107.8
6	☐			12.22		P	63.0
7	☐			10.00		P	0.0
8	☐			27.78		P	36.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	77.8
2	☐	1.000	0.911	2005.78	0.0008	P	8.3
3	☐	50.000	50.980	108980.58	0.0431	P	2.3
4	☐	125.000	126.087	276724.80	0.1066	P	12.9
5	☐	250.000	257.031	558994.48	0.2172	P	3.1
6	☐	500.000	496.828	1141186.46	0.4199	P	1.3
7	☐	1000.000	999.644	2295901.03	0.8449	A	1.0
8	☐			1564.03	0.0006	P	1.2

$$y = 8.4518E-004 * x + 8.4253E-006$$

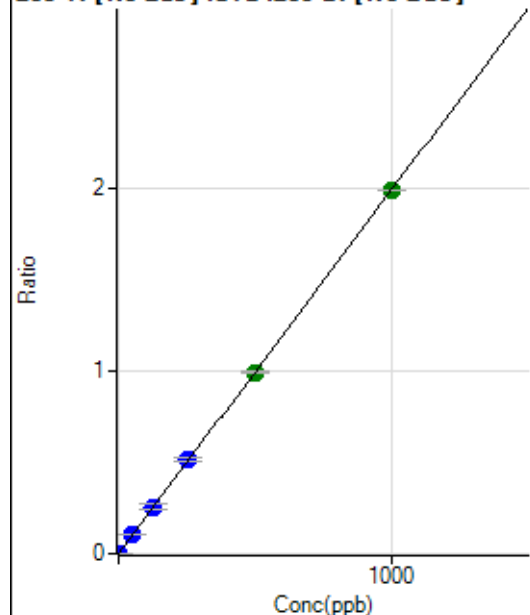
$$R = 1.0000$$

$$DL = 0.02326$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	1.2
2	☐	1.000	0.949	4931.66	0.0019	P	3.2
3	☐	50.000	51.532	259313.00	0.1026	P	3.2
4	☐	125.000	127.232	657541.98	0.2532	P	12.6
5	☐	250.000	260.376	1333061.44	0.5181	P	3.2
6	☐	500.000	499.199	2699269.61	0.9933	A	1.0
7	☐	1000.000	997.451	5392930.85	1.9847	A	0.2
8	☐			3917.37	0.0015	P	6.6

$$y = 0.0020 * x + 2.5265E-005$$

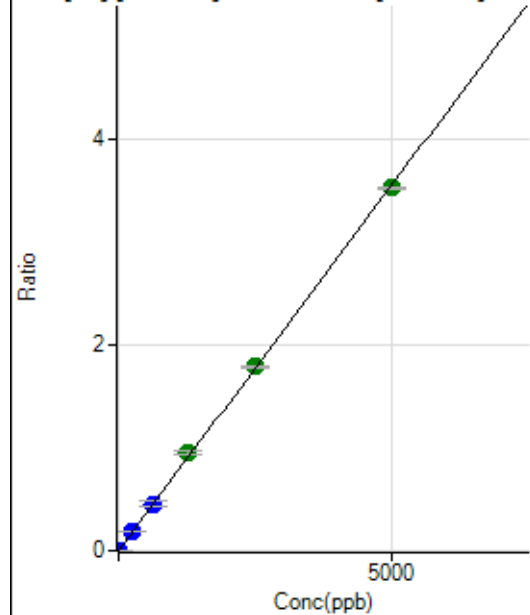
$$R = 0.9999$$

$$DL = 0.0004652$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	166.67	0.0001	P	13.3
2	☐	1.000	0.842	1707.55	0.0007	P	4.7
3	☐	250.000	257.885	464192.73	0.1836	P	2.2
4	☐	625.000	633.032	1170248.19	0.4505	P	12.4
5	☐	1250.000	1338.492	2450816.92	0.9525	A	2.8
6	☐	2500.000	2517.928	4869010.87	1.7917	A	1.3
7	☐	5000.000	4967.515	9605055.88	3.5347	A	0.4
8	☐			9392.44	0.0036	P	4.0

$$y = 7.1156E-004 * x + 6.3223E-005$$

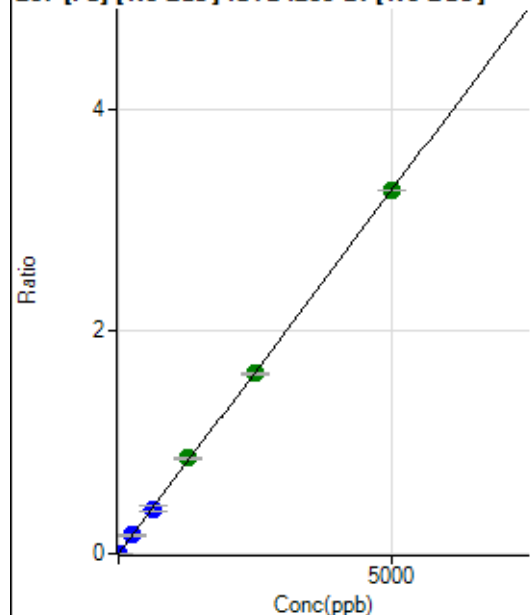
$$R = 0.9998$$

$$DL = 0.03539$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	112.97	0.0000	P	34.0
2	☐	1.000	0.818	1489.00	0.0006	P	2.5
3	☐	250.000	252.653	417717.15	0.1652	P	2.1
4	☐	625.000	620.281	1051343.67	0.4055	P	14.8
5	☐	1250.000	1314.494	2210629.29	0.8592	A	3.3
6	☐	2500.000	2482.319	4409365.78	1.6225	A	1.0
7	☐	5000.000	4993.174	8868389.26	3.2637	A	0.2
8	☐			8623.37	0.0033	P	3.1

$$y = 6.5362E-004 * x + 4.2920E-005$$

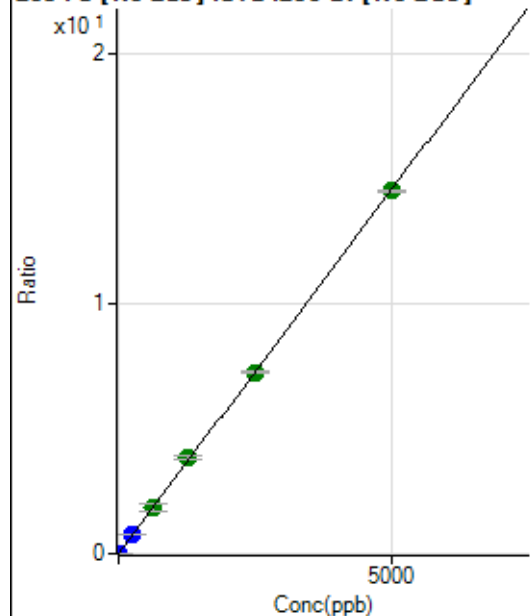
$$R = 0.9999$$

$$DL = 0.06705$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	564.83	0.0002	P	20.5
2	☐	1.000	0.863	7032.39	0.0027	P	1.5
3	☐	250.000	255.465	1880953.70	0.7439	P	2.8
4	☐	625.000	632.176	4776851.70	1.8405	A	13.5
5	☐	1250.000	1321.138	9896372.14	3.8461	A	2.8
6	☐	2500.000	2495.302	19740585.45	7.2641	A	0.9
7	☐	5000.000	4983.395	39418634.73	14.5070	A	0.8
8	☐			38113.10	0.0147	P	1.9

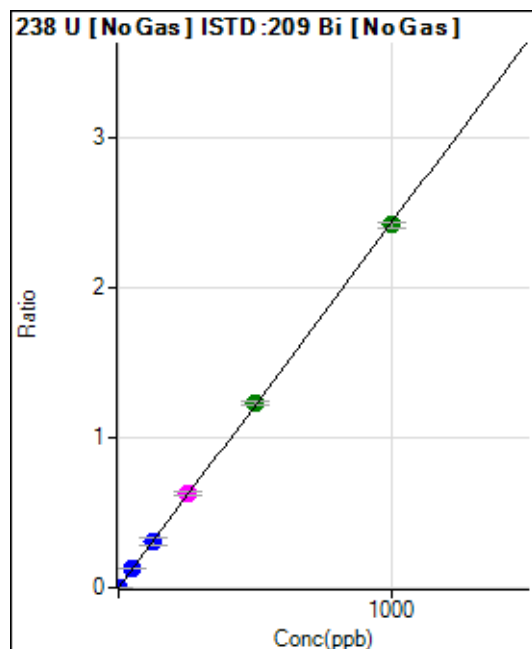
$$y = 0.0029 * x + 2.1438E-004$$

$$R = 0.9999$$

$$DL = 0.04521$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	89.8
2	☐	1.000	0.976	6148.90	0.0024	P	1.8
3	☐	50.000	51.512	316595.89	0.1252	P	2.8
4	☐	125.000	126.381	797192.49	0.3071	P	13.5
5	☐	250.000	259.213	1620505.83	0.6300	M	4.8
6	☐	500.000	506.607	3345702.55	1.2312	A	1.4
7	☐	1000.000	994.145	6564228.31	2.4160	A	1.6
8	☐			744.49	0.0003	P	14.4

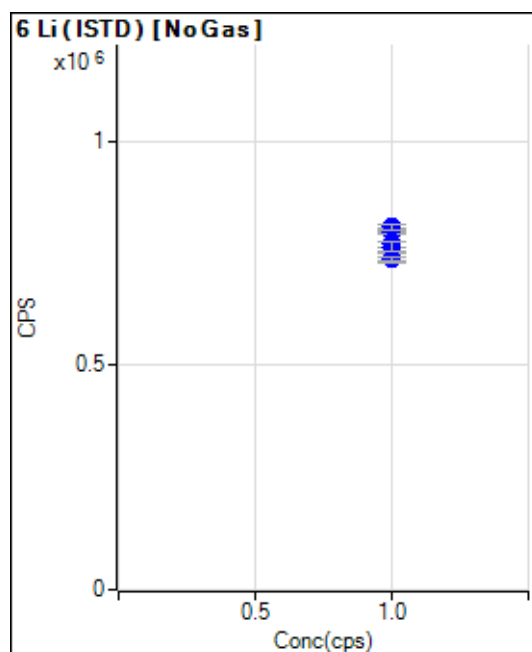
$$y = 0.0024 * x + 1.2642E-005$$

$$R = 0.9999$$

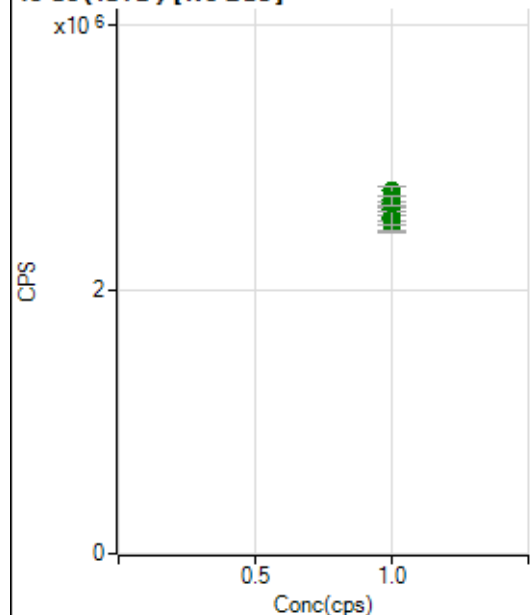
$$DL = 0.01401$$

Weight: <None>

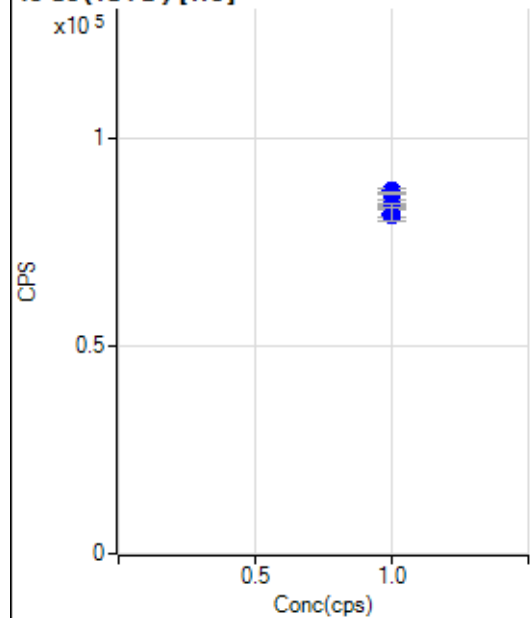
Min Conc: 0



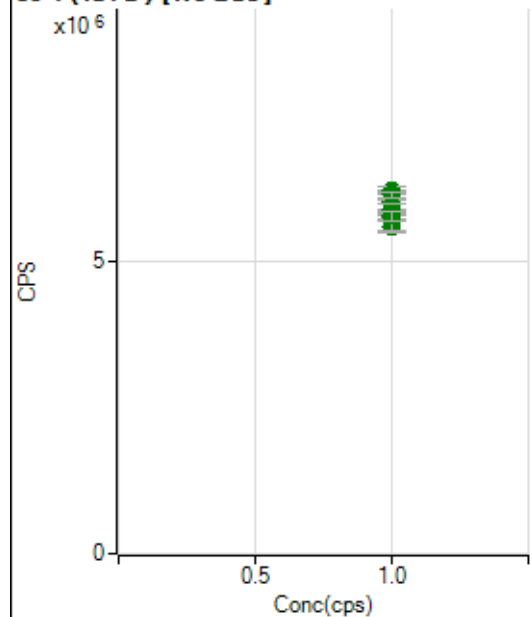
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		769867.89		P	1.2
2	☐	1.000		751261.46		P	0.5
3	☐	1.000		737500.10		P	1.4
4	☐	1.000		764145.79		P	9.0
5	☐	1.000		764670.43		P	3.1
6	☐	1.000		801402.07		P	0.7
7	☐	1.000		796974.21		P	1.1
8	☐	1.000		808742.90		P	1.8

45 Sc (ISTD) [No Gas]

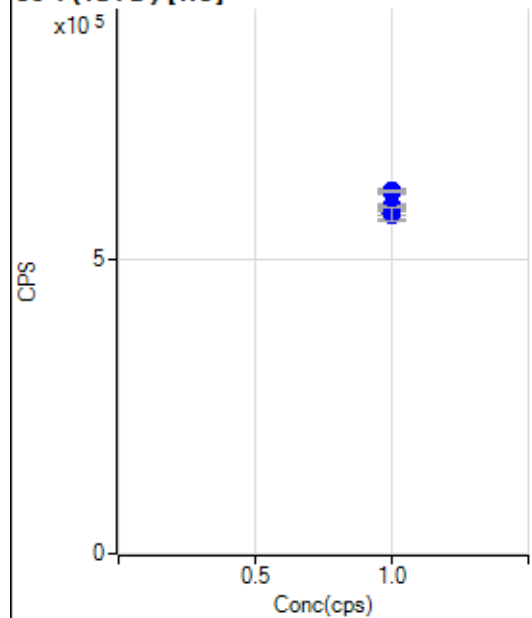
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2608422.57		A	1.0
2	☐	1.000		2538853.71		A	1.4
3	☐	1.000		2483473.49		A	3.0
4	☐	1.000		2606177.31		A	13.0
5	☐	1.000		2544685.62		A	4.1
6	☐	1.000		2648272.60		A	1.0
7	☐	1.000		2747536.85		A	2.6
8	☐	1.000		2673039.73		A	3.2

45 Sc (ISTD) [He]

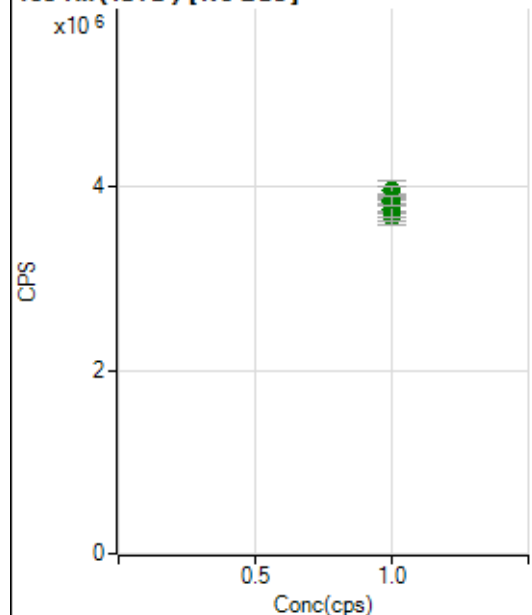
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		84470.20		P	1.4
2	☐	1.000		82011.79		P	2.0
3	☐	1.000		83188.17		P	1.1
4	☐	1.000		82204.08		P	2.6
5	☐	1.000		83496.76		P	1.4
6	☐	1.000		81637.55		P	4.1
7	☐	1.000		87380.28		P	1.6
8	☐	1.000		86781.39		P	0.2

89 Y (ISTD) [No Gas]

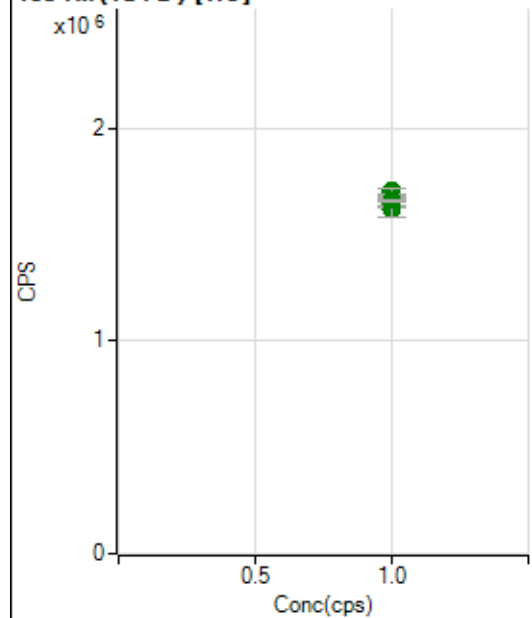
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5877605.82		A	1.1
2	☐	1.000		5773225.26		A	0.9
3	☐	1.000		5613837.83		A	3.5
4	☐	1.000		5889524.74		A	11.8
5	☐	1.000		5788404.15		A	3.0
6	☐	1.000		6043817.89		A	1.0
7	☐	1.000		6221137.89		A	2.0
8	☐	1.000		6151774.01		A	1.6

89 Y (ISTD) [He]

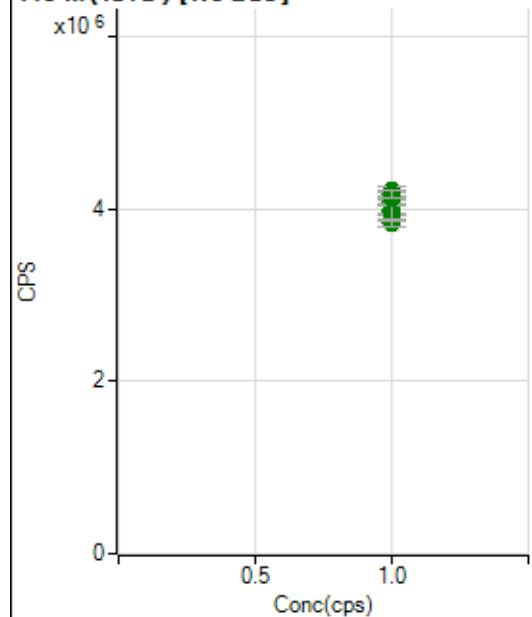
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		589611.83		P	1.0
2	☐	1.000		574697.55		P	2.1
3	☐	1.000		588616.05		P	1.0
4	☐	1.000		578186.43		P	1.9
5	☐	1.000		586736.74		P	1.1
6	☐	1.000		576414.76		P	4.0
7	☐	1.000		613967.19		P	1.6
8	☐	1.000		615388.27		P	0.3

103 Rh (ISTD) [No Gas]

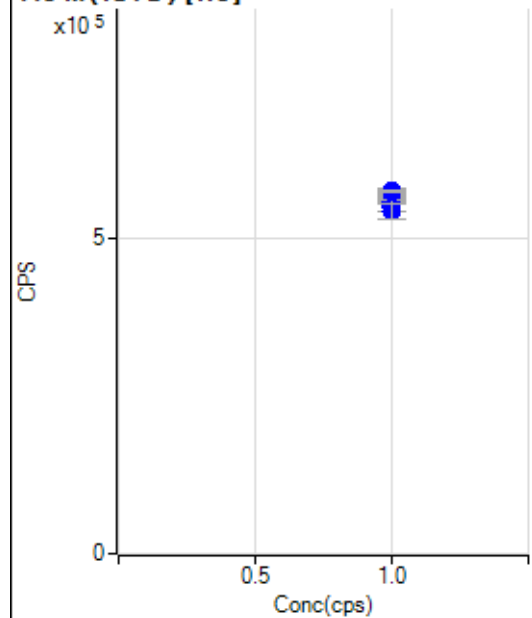
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3834783.86		A	1.9
2	☐	1.000		3767596.40		A	2.0
3	☐	1.000		3675315.54		A	2.1
4	☐	1.000		3824904.77		A	12.4
5	☐	1.000		3749534.50		A	4.1
6	☐	1.000		3887380.12		A	0.2
7	☐	1.000		3960251.04		A	2.2
8	☐	1.000		3852738.97		A	2.8

103 Rh (ISTD) [He]

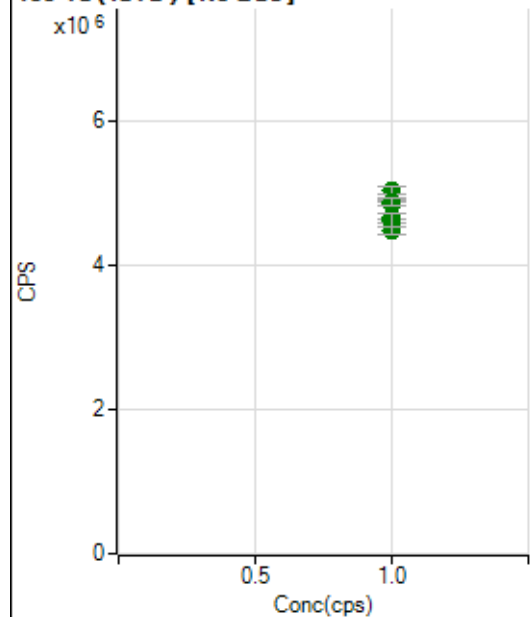
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1705008.03		A	1.7
2	☐	1.000		1646214.40		A	2.2
3	☐	1.000		1672018.59		A	1.2
4	☐	1.000		1652907.30		A	1.8
5	☐	1.000		1669259.77		A	0.5
6	☐	1.000		1619650.97		A	4.5
7	☐	1.000		1702206.07		A	1.5
8	☐	1.000		1658323.76		A	0.6

115 In (ISTD) [No Gas]

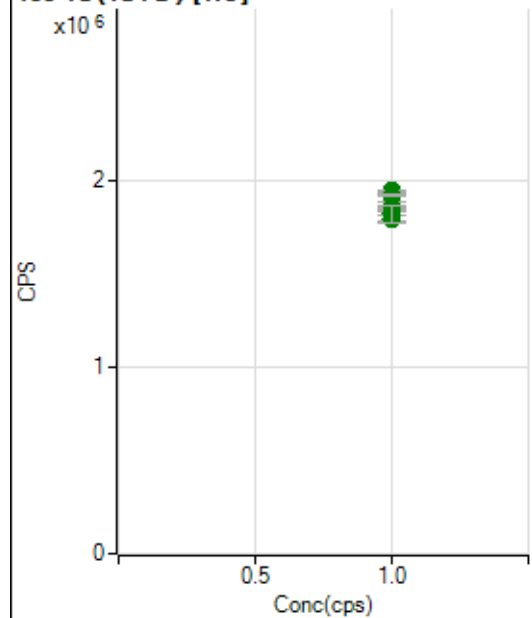
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4085999.35		A	1.3
2	☐	1.000		3943878.50		A	0.3
3	☐	1.000		3836514.34		A	2.0
4	☐	1.000		3998500.39		A	10.4
5	☐	1.000		3971611.51		A	4.2
6	☐	1.000		4139243.79		A	0.7
7	☐	1.000		4214832.04		A	2.6
8	☐	1.000		4176336.58		A	2.6

115 In (ISTD) [He]

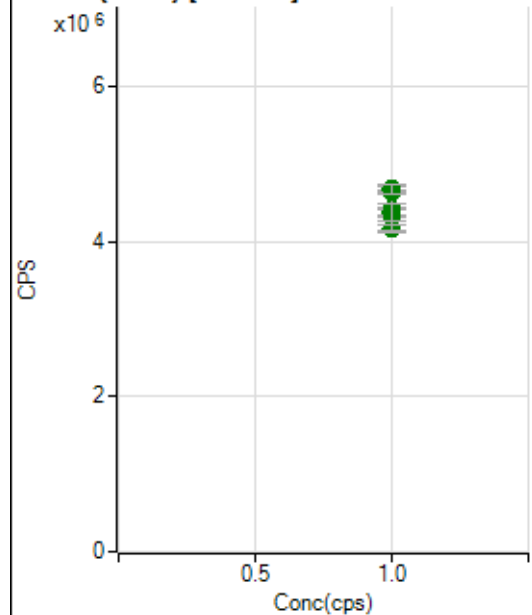
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		564031.65		P	1.7
2	☐	1.000		547722.62		P	2.0
3	☐	1.000		563606.41		P	0.5
4	☐	1.000		550042.91		P	2.5
5	☐	1.000		558405.18		P	1.1
6	☐	1.000		542919.48		P	4.6
7	☐	1.000		573994.99		P	1.7
8	☐	1.000		574585.03		P	0.7

159 Tb (ISTD) [No Gas]

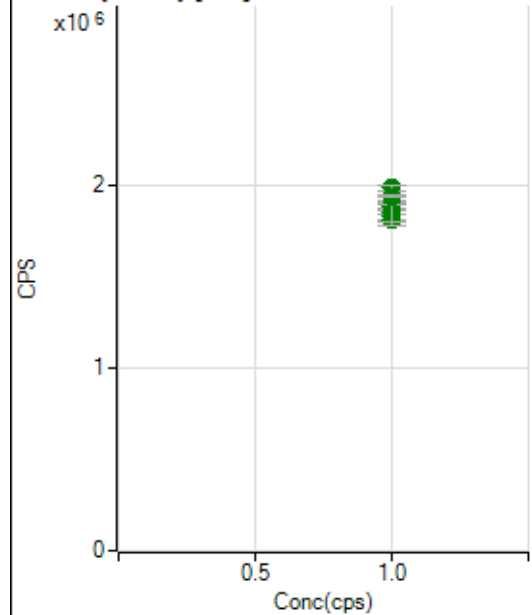
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4679586.91		A	1.2
2	☐	1.000		4613111.74		A	0.7
3	☐	1.000		4481820.04		A	2.8
4	☐	1.000		4669156.35		A	10.7
5	☐	1.000		4635080.56		A	4.1
6	☐	1.000		4859402.64		A	1.2
7	☐	1.000		5031679.93		A	2.1
8	☐	1.000		4882958.12		A	2.3

159 Tb (ISTD) [He]

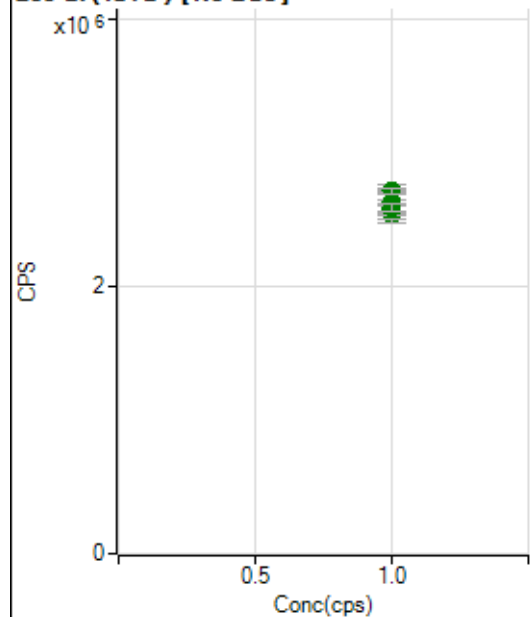
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1855464.77		A	0.9
2	☐	1.000		1805248.43		A	2.8
3	☐	1.000		1864185.93		A	0.1
4	☐	1.000		1789312.80		A	2.3
5	☐	1.000		1861144.04		A	2.1
6	☐	1.000		1815740.74		A	5.1
7	☐	1.000		1940031.79		A	0.4
8	☐	1.000		1915423.76		A	0.8

165 Ho (ISTD) [No Gas]

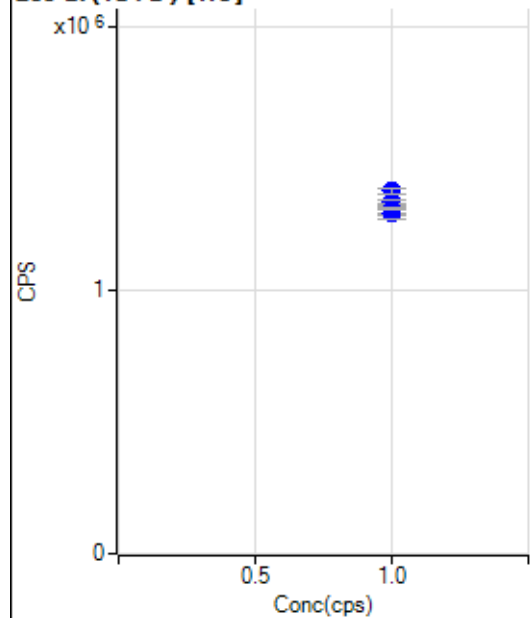
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4415914.12		A	0.6
2	☐	1.000		4334725.71		A	0.8
3	☐	1.000		4172301.05		A	2.7
4	☐	1.000		4389294.85		A	10.8
5	☐	1.000		4373440.29		A	4.8
6	☐	1.000		4650087.17		A	0.5
7	☐	1.000		4679379.75		A	1.9
8	☐	1.000		4673054.53		A	2.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1862687.35		A	1.3
2	☐	1.000		1830840.01		A	2.1
3	☐	1.000		1890602.34		A	1.6
4	☐	1.000		1812737.68		A	3.4
5	☐	1.000		1894641.95		A	2.4
6	☐	1.000		1852114.99		A	4.7
7	☐	1.000		1990151.79		A	1.4
8	☐	1.000		1945742.28		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2639046.37		A	1.2
2	☐	1.000		2577932.74		A	1.8
3	☐	1.000		2529578.21		A	2.2
4	☐	1.000		2621884.48		A	11.2
5	☐	1.000		2574672.65		A	3.4
6	☐	1.000		2717660.43		A	0.8
7	☐	1.000		2717333.19		A	1.3
8	☐	1.000		2591502.19		A	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1335443.89		P	1.2
2	☐	1.000		1295770.04		P	2.1
3	☐	1.000		1339081.59		P	1.1
4	☐	1.000		1305061.65		P	2.2
5	☐	1.000		1336916.21		P	1.0
6	☐	1.000		1292882.70		P	4.0
7	☐	1.000		1377473.21		P	1.5
8	☐	1.000		1308403.59		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8120720 MS.b
Acq. Date-Time 2020-12-07 11:30:23
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		2080	20803.17			1.031	5.000
24		30687	306865.86			2.840	5.000
25		4239	42389.48			2.334	5.000
26		4752	47519.89			2.522	5.000
59		18909	189091.21			1.151	5.000
113		3366	33656.35			1.995	5.000
115		12553	125529.11			2.866	5.000
206		3794	37939.29			1.326	5.000
207		3164	31643.24			1.799	5.000
208		7817	78173.69			1.869	5.000
220		1	5.90			30.790	

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

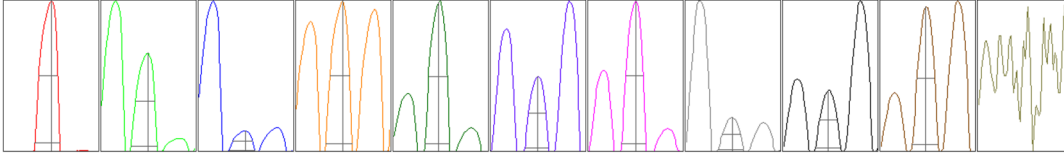
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2080	2074	2048	2103	2096
24	29720	29853	31381	31637	30842
25	4154	4122	4347	4319	4252
26	4629	4648	4839	4906	4738
59	18703	18881	18723	19228	19010
113	3292	3389	3310	3459	3378
115	12603	12452	12165	13132	12413
206	3741	3830	3744	3853	3801
207	3097	3195	3113	3229	3188
208	7693	7886	7650	8008	7850

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	0	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3663.22	9.05	8.90 - 9.10	
24	53048.98	24.00	23.90 - 24.10	
25	7071.29	25.00	24.90 - 25.10	
26	8205.24	26.00	25.90 - 26.10	
59	33681.37	58.95	58.90 - 59.10	
113	6424.53	113.00	112.90 - 113.10	
115	23965.39	115.05	114.90 - 115.10	
206	6938.59	206.00	205.90 - 206.10	
207	5852.47	206.95	206.90 - 207.10	
208	14502.36	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.781	0.900	
24	0.62	0.828	0.900	
25	0.63	0.806	0.900	
26	0.62	0.830	0.900	
59	0.59	0.777	0.900	
113	0.55	0.739	0.900	
115	0.54	0.769	0.900	
206	0.57	0.801	0.900	
207	0.56	0.805	0.900	
208	0.56	0.818	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 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	11.4 V	Deflect	15.4 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	200 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.6 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4154	41541.60			4.702	
89		9451	94509.39			4.106	
205		8685	86850.48			3.808	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3823	4233	4221	4159	4334
89	8812	9667	9495	9448	9832
205	8170	8972	8674	8631	8979

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 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	11.4 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.6 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V