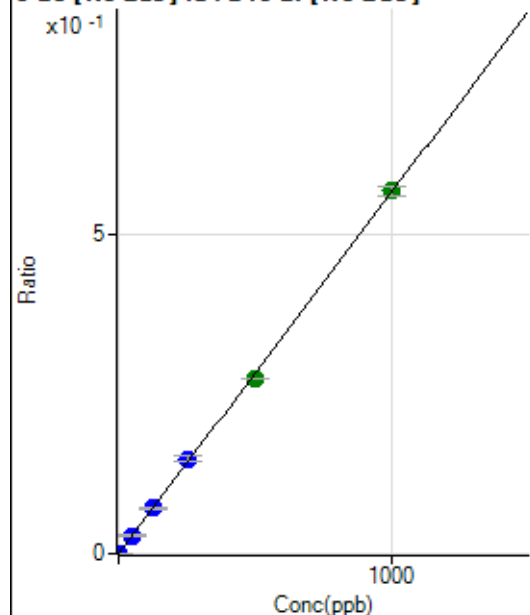


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050222 MS.b\
Analysis File: P8050222 MS.batch.bin
DA Date-Time: 2022-05-02 13:44:08
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-05-02 12:28:05
2	006CALS.d	S02	2022-05-02 12:34:14
3	007CALS.d	S03	2022-05-02 12:37:17
4	008CALS.d	S04	2022-05-02 12:40:22
5	009CALS.d	S05	2022-05-02 12:43:25
6	010CALS.d	S06	2022-05-02 12:46:31
7	011CALS.d	S07	2022-05-02 12:49:34
8	012CALS.d	S08	2022-05-02 12:52:40

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39.32	0.0000	P	6.0
2	☐	1.000	1.089	3193.06	0.0006	P	2.0
3	☐	50.000	50.256	149149.26	0.0284	P	2.7
4	☐	125.000	125.109	376573.45	0.0708	P	4.7
5	☐	250.000	262.634	753774.09	0.1486	P	4.8
6	☐	500.000	485.968	1541013.09	0.2750	A	0.3
7	☐	1000.000	1003.831	3049461.17	0.5680	A	2.7
8	☐			429.26	0.0001	P	11.5

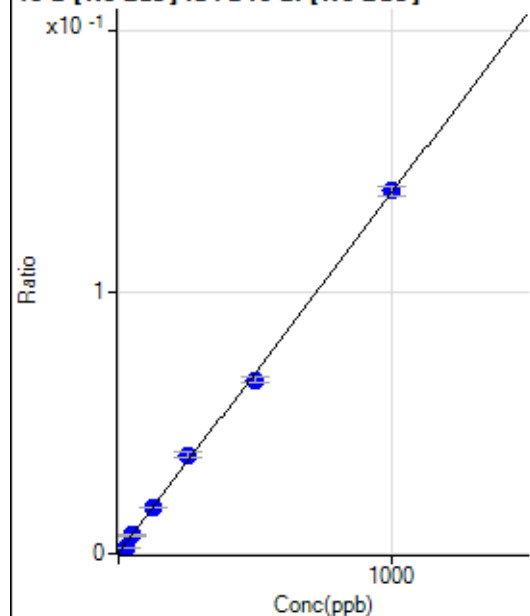
$$y = 5.6578\text{E-}004 * x + 7.4516\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.002383$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1461.12	0.0003	P	5.7
2	☐	25.000	13.797	11149.45	0.0022	P	2.8
3	☐	50.000	48.883	36780.49	0.0070	P	4.0
4	☐	125.000	124.885	93108.80	0.0175	P	1.9
5	☐	250.000	271.344	190977.11	0.0377	P	5.3
6	☐	500.000	479.202	371438.86	0.0663	P	3.4
7	☐	1000.000	1005.413	745010.23	0.1388	P	2.9
8	☐			40730.02	0.0080	P	9.4

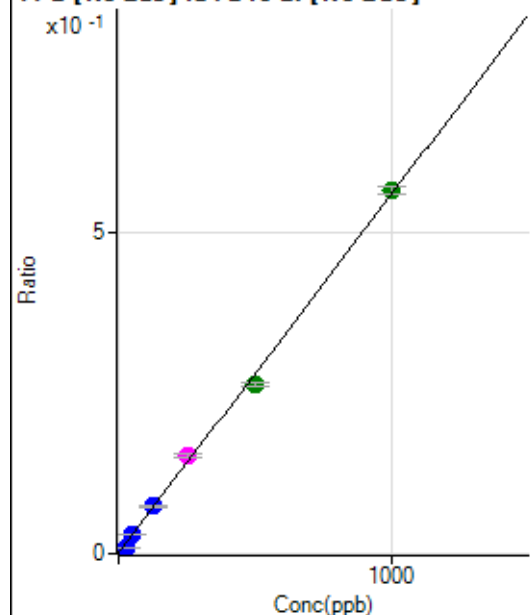
$$y = 1.3774\text{E-}004 * x + 2.7684\text{E-}004$$

$$R = 0.9993$$

$$DL = 0.3416$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6167.45	0.0012	P	2.3
2	☐	25.000	14.505	47492.96	0.0093	P	3.3
3	☐	50.000	51.786	157939.49	0.0301	P	2.8
4	☐	125.000	129.269	390817.74	0.0734	P	2.5
5	☐	250.000	273.073	780318.61	0.1538	M	3.8
6	☐	500.000	469.397	1476647.76	0.2635	A	2.9
7	☐	1000.000	1009.173	3034612.56	0.5651	A	2.1
8	☐			174137.58	0.0343	P	9.8

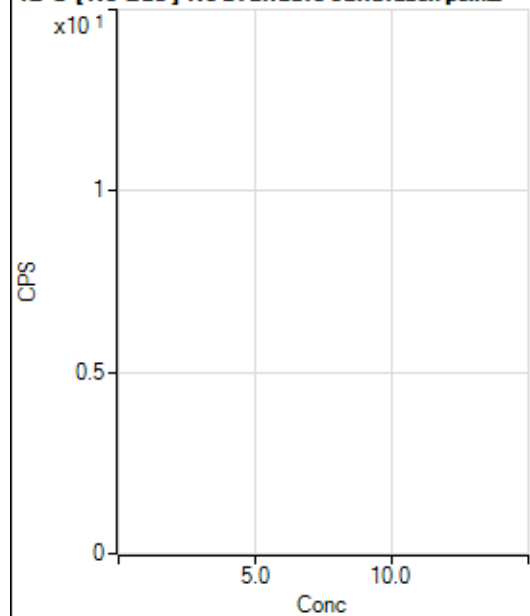
$$y = 5.5884\text{E-}004 * x + 0.0012$$

$$R = 0.9989$$

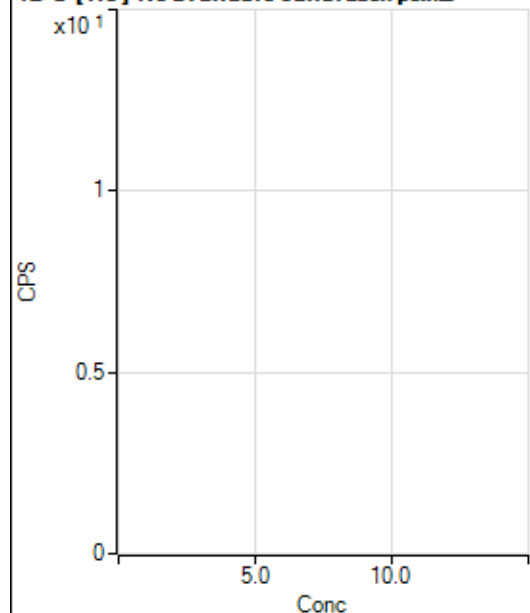
$$DL = 0.1465$$

Weight: <None>

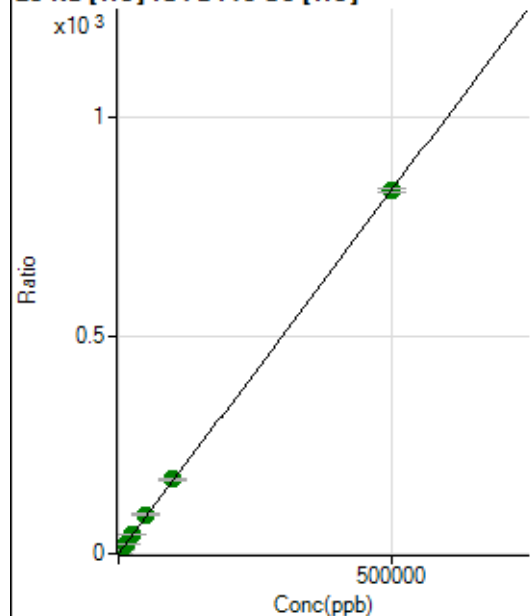
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5440582.41		A	1.0
2	☐			5445126.77		A	0.8
3	☐			5922465.20		A	0.8
4	☐			6404849.71		A	0.4
5	☐			6495904.71		A	0.2
6	☐			7065331.41		A	1.5
7	☐			7888409.20		A	1.9
8	☐			6446567.68		A	0.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53144.38		P	2.5
2	☐			54197.97		P	2.3
3	☐			59462.96		P	0.9
4	☐			62868.63		P	1.0
5	☐			65165.16		P	1.6
6	☐			73015.89		P	0.6
7	☐			81301.29		P	1.0
8	☐			69228.14		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9950.85	0.0598	P	6.3
2	☐	500.000	472.020	146750.41	0.8472	P	2.1
3	☐	5000.000	5103.929	1481662.88	8.5740	A	1.2
4	☐	12500.000	12844.543	3694188.71	21.4866	A	2.5
5	☐	25000.000	25521.885	7353721.78	42.6345	A	2.1
6	☐	50000.000	53529.705	15086199.47	89.3562	A	3.2
7	☐	100000.00	102093.33	30332557.62	170.3682	A	0.5
8	☐	500000.00	499192.64	146706757.4	832.7949	A	1.0

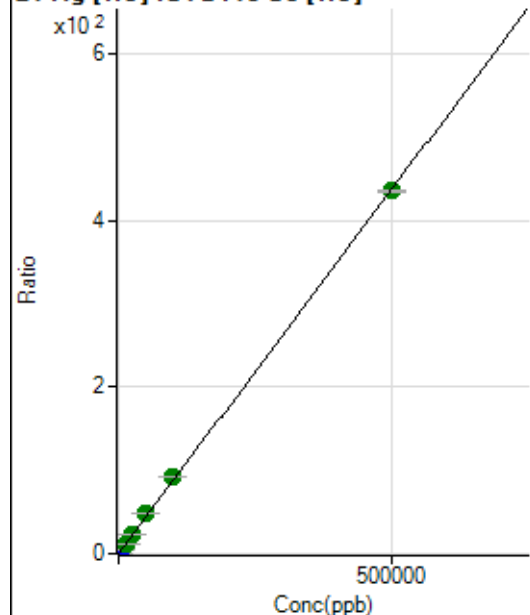
$$y = 0.0017 * x + 0.0598$$

$$R = 1.0000$$

$$DL = 6.73$$

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	255.56	0.0015	P	12.9
2	☐	500.000	509.562	77362.40	0.4466	P	1.4
3	☐	5000.000	5173.445	781180.76	4.5205	P	0.1
4	☐	12500.000	13641.597	2049083.81	11.9174	A	1.5
5	☐	25000.000	26829.972	4042531.73	23.4375	A	2.2
6	☐	50000.000	54865.270	8092502.09	47.9262	A	2.3
7	☐	100000.00	105576.74	16419630.58	92.2225	A	0.4
8	☐	500000.00	498276.34	76678060.05	435.2446	A	0.2

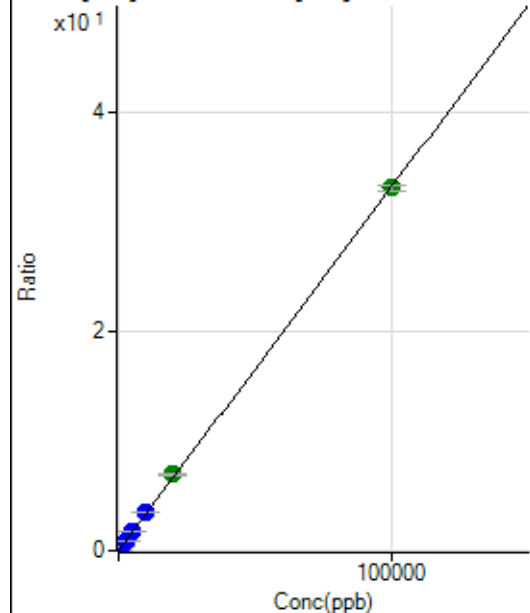
$$y = 8.7350E-004 * x + 0.0015$$

$$R = 0.9999$$

$$DL = 0.6811$$

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	52.49	0.0003	P	28.3
2	☐	20.000	20.366	1222.82	0.0071	P	4.4
3	☐	1000.000	1006.920	57675.85	0.3338	P	0.4
4	☐	2500.000	2516.011	143300.61	0.8335	P	2.0
5	☐	5000.000	5039.061	287886.16	1.6690	P	0.5
6	☐	10000.000	10436.451	583641.37	3.4564	P	2.0
7	☐	20000.000	20937.182	1234610.78	6.9337	A	1.8
8	☐	100000.00	99766.496	5821628.82	33.0380	A	1.8

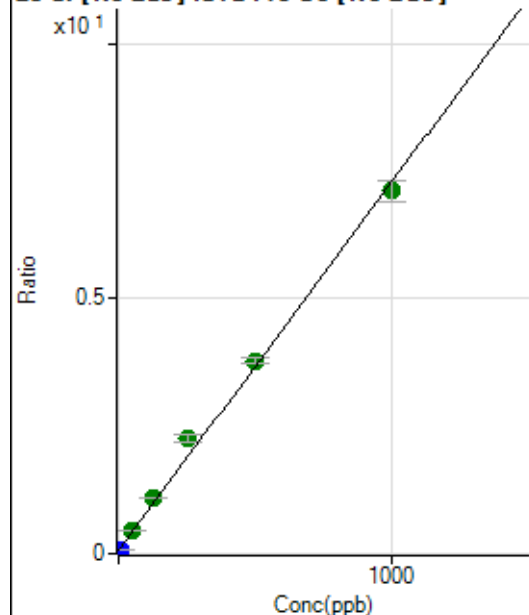
$$y = 3.3115E-004 * x + 3.1697E-004$$

$$R = 0.9999$$

$$DL = 0.8126$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408571.91	0.0625	P	0.5
2	☐	10.000	1.635	484865.05	0.0743	P	1.6
3	☐	50.000	55.533	3065774.01	0.4632	A	2.7
4	☐	125.000	141.090	7220219.00	1.0807	A	0.6
5	☐	250.000	303.942	13994932.43	2.2559	A	6.6
6	☐	500.000	515.321	25407540.15	3.7813	A	3.3
7	☐	1000.000	976.650	47527371.20	7.1105	A	6.1
8	☐			915925.00	0.1414	A	2.2

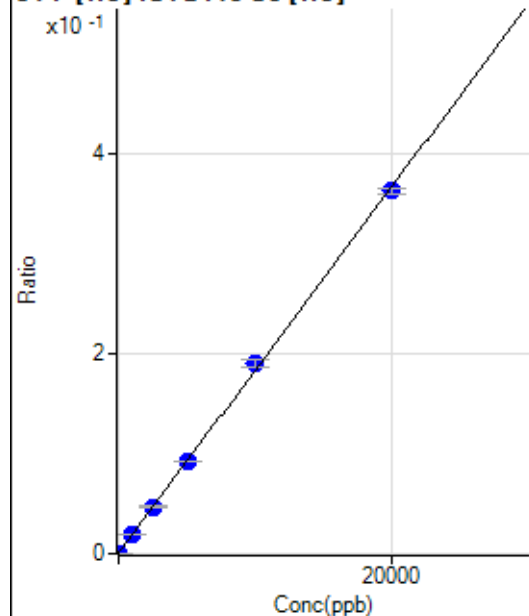
$$y = 0.0072 * x + 0.0625$$

$$R = 0.9979$$

$$DL = 0.1248$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.062	55.56	0.0003	P	22.9
2	☐	0.000	11.062	127.78	0.0007	P	14.1
3	☐	1000.000	1009.935	3281.02	0.0190	P	2.0
4	☐	2500.000	2528.485	8035.80	0.0467	P	2.4
5	☐	5000.000	5038.598	15970.29	0.0926	P	0.6
6	☐	10000.000	10385.074	32122.77	0.1903	P	3.6
7	☐	20000.000	19793.756	64469.33	0.3622	P	1.9
8	☐			66.67	0.0004	P	26.5

$$y = 1.8269E-005 * x + 5.3604E-004$$

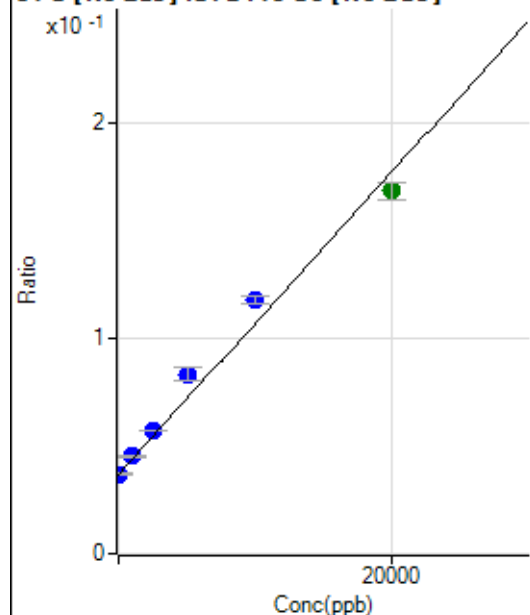
$$R = 0.9997$$

$$DL = 14.8$$

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	-32.142	239429.87	0.0366	P	0.4
2	☐	0.000	32.142	241957.85	0.0371	P	0.8
3	☐	1000.000	1179.363	298645.50	0.0451	P	2.2
4	☐	2500.000	2883.882	381473.91	0.0571	P	0.7
5	☐	5000.000	6639.475	517766.87	0.0835	P	7.0
6	☐	10000.000	11561.235	793172.23	0.1180	P	3.2
7	☐	20000.000	18752.560	1126881.50	0.1686	A	5.0
8	☐			219177.27	0.0338	P	2.4

$$y = 7.0236E-006 * x + 0.0368$$

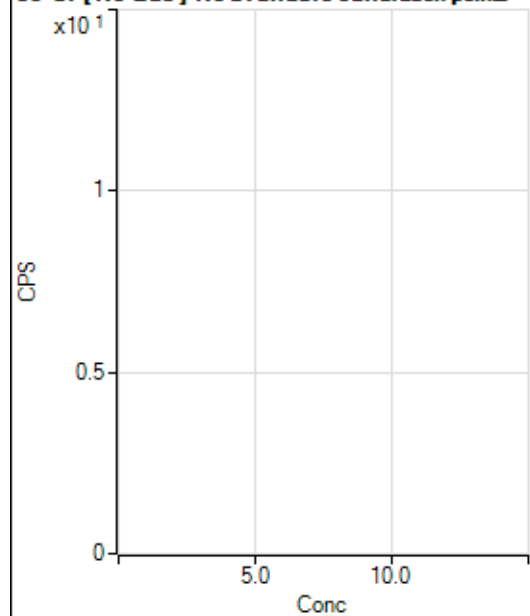
R = 0.9910

DL = 99.69

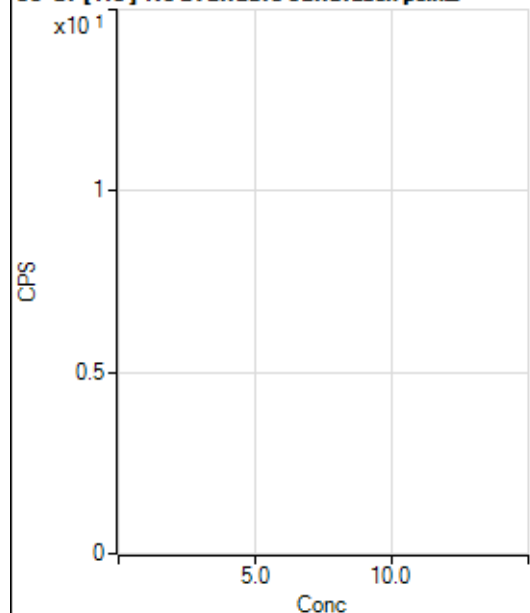
Weight: <None>

Min Conc: 0

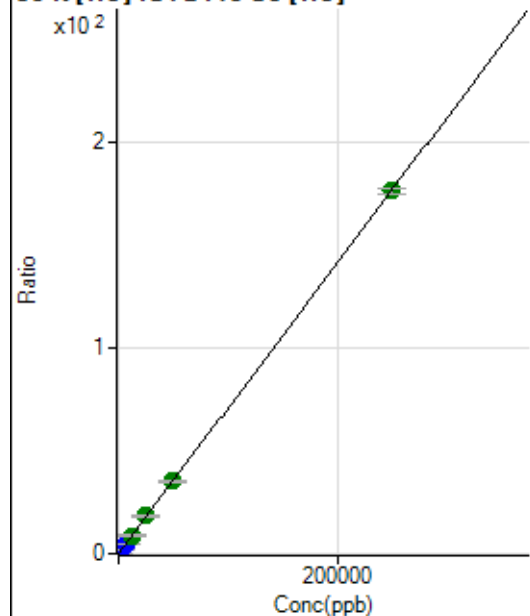
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			178608.49		P	0.7
2	☐			163332.17		P	0.7
3	☐			169581.87		P	0.9
4	☐			171688.33		P	1.1
5	☐			167711.62		P	0.1
6	☐			160118.23		P	0.7
7	☐			164770.66		P	0.6
8	☐			153537.74		P	1.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1122.30		P	14.1
2	☐			1083.40		P	7.8
3	☐			1250.09		P	5.0
4	☐			1122.30		P	9.6
5	☐			1136.19		P	4.4
6	☐			986.17		P	7.2
7	☐			1036.18		P	18.0
8	☐			1011.18		P	10.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12908.89	0.0776	P	4.4
2	☐	500.000	473.410	71128.24	0.4107	P	1.2
3	☐	2500.000	2518.907	319659.21	1.8498	P	0.8
4	☐	6250.000	6269.972	771767.13	4.4889	P	2.4
5	☐	12500.000	12419.429	1520503.89	8.8155	A	2.3
6	☐	25000.000	26049.174	3107672.81	18.4049	A	2.5
7	☐	50000.000	49831.739	6254932.60	35.1375	A	1.8
8	☐	250000.00	249932.12	30994385.42	175.9212	A	1.6

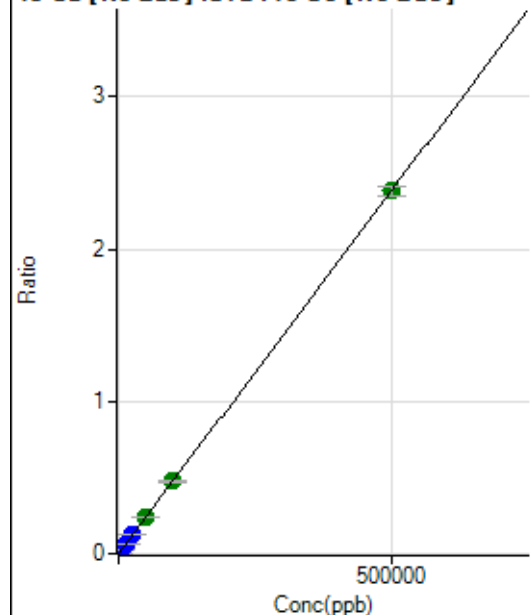
$$y = 7.0357E-004 * x + 0.0776$$

$$R = 1.0000$$

$$DL = 14.47$$

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	169.98	0.0000	P	4.8
2	☐	500.000	482.971	15193.63	0.0023	P	1.3
3	☐	5000.000	4862.240	153533.32	0.0232	P	1.8
4	☐	12500.000	12229.686	389568.45	0.0583	P	0.8
5	☐	25000.000	26518.505	784132.98	0.1264	P	6.8
6	☐	50000.000	49811.316	1595667.46	0.2374	A	0.9
7	☐	100000.00	100089.82	3189998.63	0.4770	A	3.8
8	☐	500000.00	499933.13	15431027.09	2.3825	A	2.5

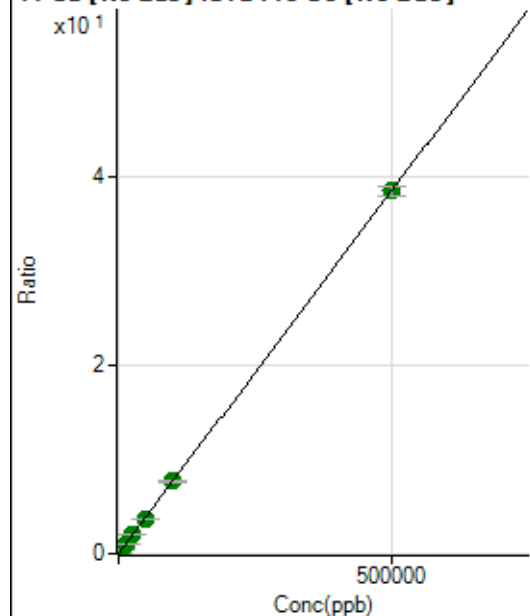
$$y = 4.7656\text{E-}006 * x + 2.5991\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.7872$$

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	6743.73	0.0010	P	2.8
2	☐	500.000	475.704	246026.03	0.0377	P	1.2
3	☐	5000.000	4818.589	2464747.09	0.3724	A	2.2
4	☐	12500.000	12263.687	6321028.63	0.9461	A	1.9
5	☐	25000.000	26253.753	12553960.15	2.0242	A	7.4
6	☐	50000.000	48071.888	24903249.01	3.7056	A	1.7
7	☐	100000.00	99730.106	51411752.36	7.6866	A	3.0
8	☐	500000.00	500191.84	249648979.2	38.5474	A	2.9

$$y = 7.7063\text{E-}005 * x + 0.0010$$

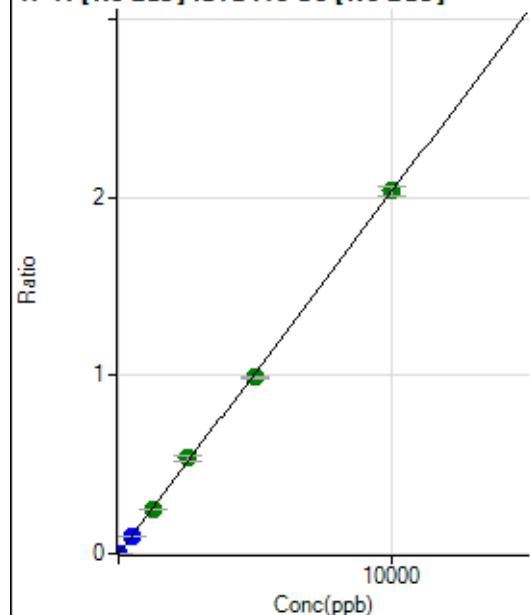
$$R = 1.0000$$

$$DL = 1.11$$

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	177.78	0.0000	P	19.7
2	☐	5.000	5.040	6857.38	0.0011	P	1.6
3	☐	500.000	499.772	671797.53	0.1015	P	1.5
4	☐	1250.000	1226.725	1664072.01	0.2491	A	0.9
5	☐	2500.000	2641.099	3326545.30	0.5362	A	6.6
6	☐	5000.000	4878.592	6656807.31	0.9904	A	0.8
7	☐	10000.000	10028.350	13617455.51	2.0359	A	2.9
8	☐			2830.93	0.0004	P	6.9

$$y = 2.0301E-004 * x + 2.7194E-005$$

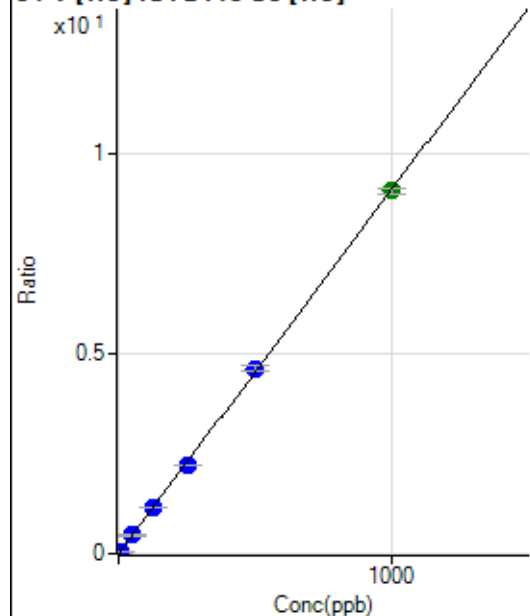
$$R = 0.9998$$

$$DL = 0.07907$$

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	4.44	0.0000	P	114.
2	☐	5.000	4.892	7717.71	0.0446	P	2.6
3	☐	50.000	50.369	79243.75	0.4586	P	1.3
4	☐	125.000	126.373	197794.25	1.1505	P	2.0
5	☐	250.000	243.095	381729.08	2.2131	P	1.0
6	☐	500.000	508.977	782301.62	4.6336	P	3.1
7	☐	1000.000	997.048	1615830.26	9.0768	A	1.5
8	☐			298.90	0.0017	P	30.0

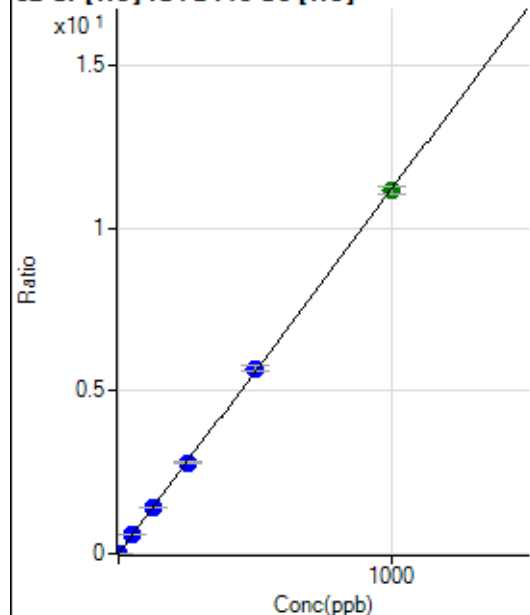
$$y = 0.0091 * x + 2.6209E-005$$

$$R = 0.9999$$

$$DL = 0.009871$$

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	623.35	0.0037	P	3.4
2	☐	2.000	1.989	4499.65	0.0260	P	1.5
3	☐	50.000	50.648	98488.22	0.5699	P	1.3
4	☐	125.000	125.485	241864.23	1.4065	P	1.3
5	☐	250.000	249.050	480847.16	2.7878	P	2.6
6	☐	500.000	508.740	960797.69	5.6909	P	3.1
7	☐	1000.000	995.775	1982235.65	11.1354	A	2.0
8	☐			18039.87	0.1024	P	0.6

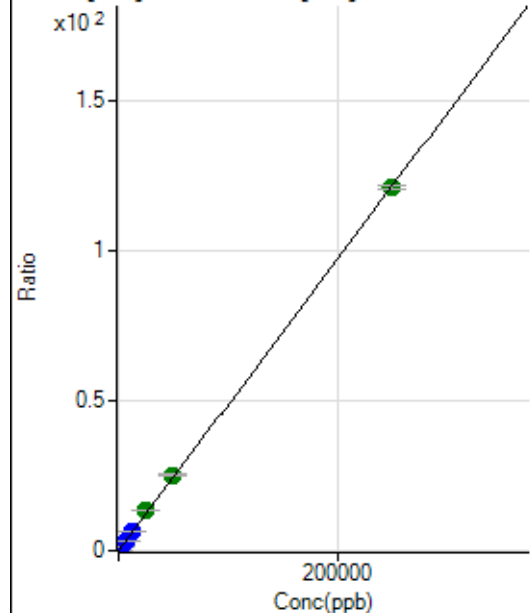
$$y = 0.0112 * x + 0.0037$$

$$R = 0.9999$$

$$DL = 0.03399$$

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	377.79	0.0023	P	8.2
2	☐	50.000	52.143	4763.86	0.0275	P	3.1
3	☐	2500.000	2636.849	220932.59	1.2785	P	1.5
4	☐	6250.000	6618.675	551203.32	3.2057	P	1.0
5	☐	12500.000	12802.878	1069206.28	6.1988	P	1.4
6	☐	25000.000	27859.130	2276736.74	13.4860	A	3.4
7	☐	50000.000	51642.342	4449578.72	24.9970	A	2.5
8	☐	250000.00	249359.88	21259530.10	120.6918	A	1.1

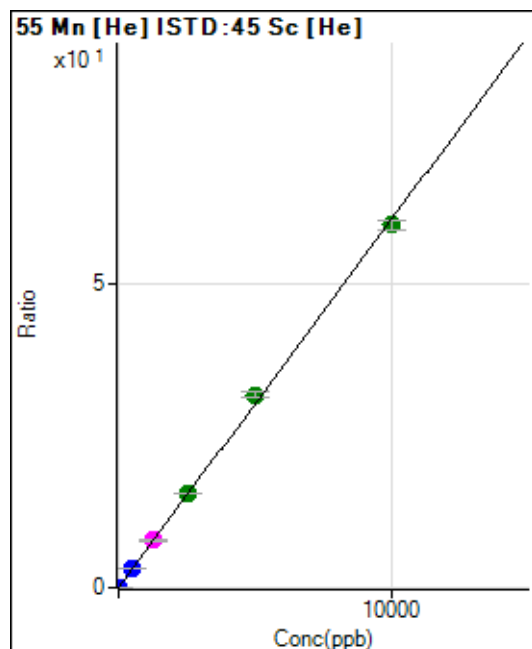
$$y = 4.8400E-004 * x + 0.0023$$

$$R = 0.9999$$

$$DL = 1.158$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	45.56	0.0003	P	19.0
2	☐	1.000	1.057	1156.72	0.0067	P	4.7
3	☐	500.000	513.966	538153.28	3.1142	P	0.6
4	☐	1250.000	1299.673	1353522.28	7.8745	M	3.6
5	☐	2500.000	2565.376	2680980.93	15.5429	A	0.5
6	☐	5000.000	5246.931	5367006.86	31.7894	A	3.3
7	☐	10000.000	9853.283	10626319.08	59.6974	A	2.4
8	☐			7069.63	0.0401	P	8.6

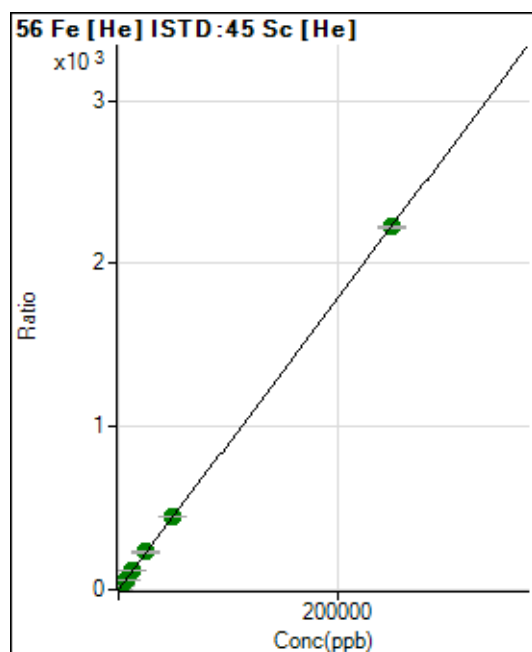
$$y = 0.0061 * x + 2.7403E-004$$

$$R = 0.9995$$

$$DL = 0.02582$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3302.30	0.0199	P	8.7
2	☐	50.000	50.605	81510.26	0.4706	P	0.1
3	☐	2500.000	2702.196	4162631.17	24.0883	A	1.1
4	☐	6250.000	6643.790	10178481.24	59.1960	A	1.2
5	☐	12500.000	12922.623	19856851.60	115.1214	A	1.5
6	☐	25000.000	26178.160	39367093.47	233.1883	A	3.4
7	☐	50000.000	50428.206	79961351.79	449.1830	A	1.6
8	☐	250000.00	249763.54	391911238.3	2,224.659	A	0.8

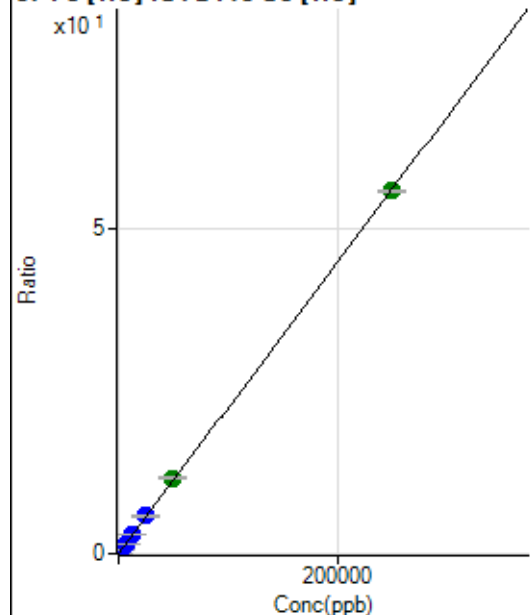
$$y = 0.0089 * x + 0.0199$$

$$R = 1.0000$$

$$DL = 0.5817$$

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	100.00	0.0006	P	10.9
2	☐	50.000	51.952	2113.15	0.0122	P	5.2
3	☐	2500.000	2612.971	100929.69	0.5841	P	0.8
4	☐	6250.000	6468.230	248445.59	1.4449	P	1.9
5	☐	12500.000	12648.700	487291.34	2.8250	P	0.7
6	☐	25000.000	25813.864	973610.45	5.7646	P	0.8
7	☐	50000.000	52109.083	2071477.72	11.6362	A	1.7
8	☐	250000.00	249482.77	9813597.79	55.7082	A	0.5

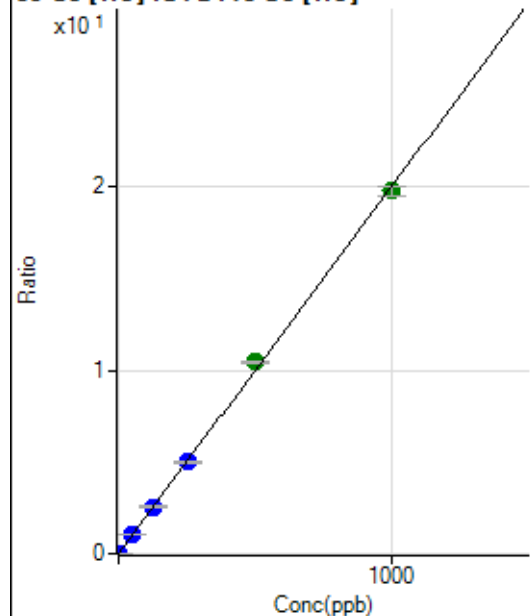
$$y = 2.2329E-004 * x + 6.0078E-004$$

$$R = 1.0000$$

$$DL = 0.88$$

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	40.00	0.0002	P	39.5
2	☐	1.000	1.011	3547.16	0.0205	P	4.1
3	☐	50.000	50.925	176181.28	1.0195	P	1.5
4	☐	125.000	127.782	439799.08	2.5579	P	1.3
5	☐	250.000	249.881	862706.48	5.0017	P	2.1
6	☐	500.000	521.766	1764125.86	10.4436	A	1.5
7	☐	1000.000	988.753	3522711.68	19.7906	A	2.5
8	☐			9518.81	0.0540	P	2.8

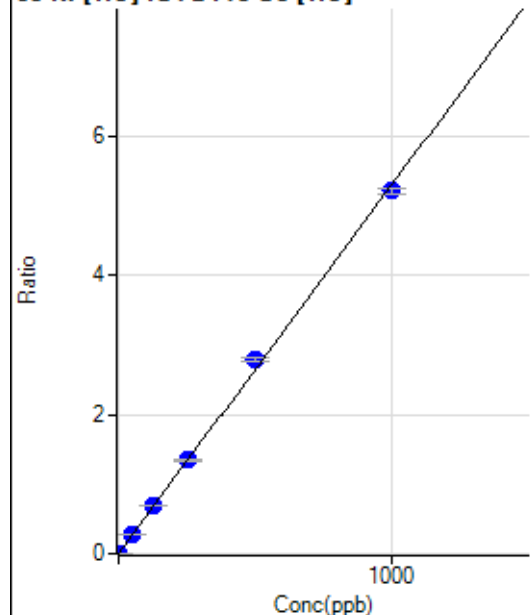
$$y = 0.0200 * x + 2.4206E-004$$

$$R = 0.9996$$

$$DL = 0.01433$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	43.34	0.0003	P	15.1
2	☐	1.000	1.072	1028.94	0.0059	P	7.4
3	☐	50.000	53.002	48584.13	0.2811	P	1.4
4	☐	125.000	131.646	120003.79	0.6979	P	1.3
5	☐	250.000	254.129	232334.94	1.3470	P	2.2
6	☐	500.000	526.524	471172.79	2.7906	P	2.5
7	☐	1000.000	984.725	929025.89	5.2188	P	1.6
8	☐			7708.83	0.0438	P	1.8

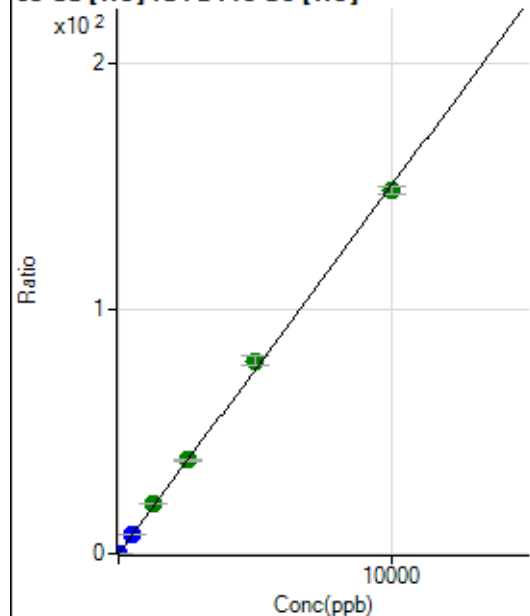
$$y = 0.0053 * x + 2.6085E-004$$

$$R = 0.9995$$

$$DL = 0.02235$$

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	547.80	0.0033	P	9.2
2	☐	2.000	2.118	6078.03	0.0351	P	0.5
3	☐	500.000	538.896	1399026.92	8.0959	P	0.6
4	☐	1250.000	1350.067	3486541.65	20.2772	A	1.5
5	☐	2500.000	2545.768	6594556.57	38.2330	A	2.3
6	☐	5000.000	5235.519	13270251.05	78.6250	A	5.0
7	☐	10000.000	9856.345	26348895.72	148.0159	A	2.1
8	☐			8133.67	0.0461	P	9.9

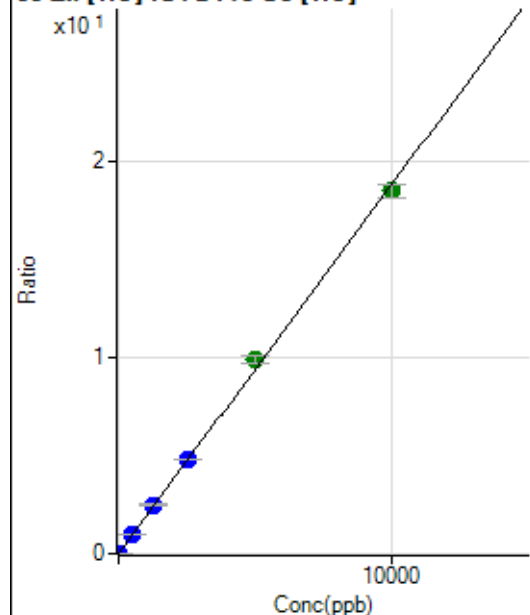
$$y = 0.0150 * x + 0.0033$$

$$R = 0.9995$$

$$DL = 0.06064$$

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	160.00	0.0010	P	16.4
2	☐	2.000	2.306	918.93	0.0053	P	7.2
3	☐	500.000	538.426	175391.16	1.0150	P	2.7
4	☐	1250.000	1325.140	429220.69	2.4966	P	2.1
5	☐	2500.000	2548.683	828077.47	4.8008	P	1.2
6	☐	5000.000	5281.634	1679189.80	9.9477	A	4.1
7	☐	10000.000	9835.699	3297284.22	18.5242	A	3.7
8	☐			4209.55	0.0239	P	3.8

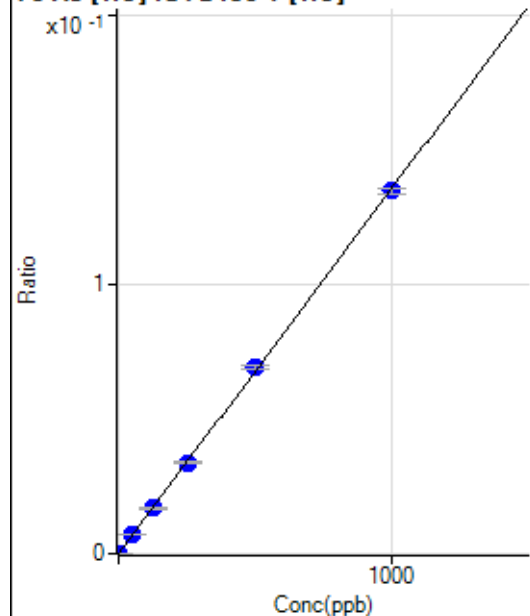
$$y = 0.0019 * x + 9.6373E-004$$

$$R = 0.9994$$

$$DL = 0.2511$$

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	5.00	0.0000	P	73.3
2	☐	1.000	0.954	192.69	0.0001	P	4.5
3	☐	50.000	51.853	10279.44	0.0070	P	2.4
4	☐	125.000	123.941	24991.55	0.0168	P	0.6
5	☐	250.000	249.068	48616.33	0.0337	P	1.2
6	☐	500.000	511.689	98076.24	0.0692	P	2.3
7	☐	1000.000	994.428	198451.39	0.1345	P	1.9
8	☐			77.68	0.0001	P	8.4

$$y = 1.3529E-004 * x + 3.6413E-006$$

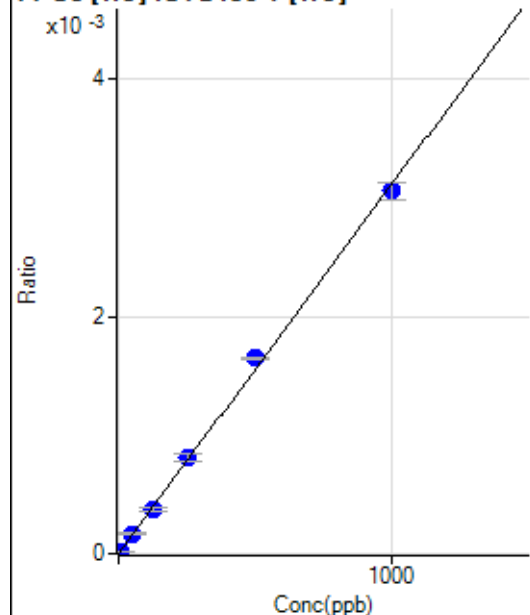
$$R = 0.9999$$

$$DL = 0.05919$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.666	21.11	0.0000	P	63.1
3	☐	50.000	54.573	248.89	0.0002	P	14.8
4	☐	125.000	119.678	554.46	0.0004	P	6.3
5	☐	250.000	259.291	1163.40	0.0008	P	8.3
6	☐	500.000	529.672	2333.56	0.0016	P	1.2
7	☐	1000.000	983.280	4508.55	0.0031	P	4.9
8	☐			2.22	0.0000	P	86.7

$$y = 3.1095\text{E-}006 * x + 0.0000\text{E+}000$$

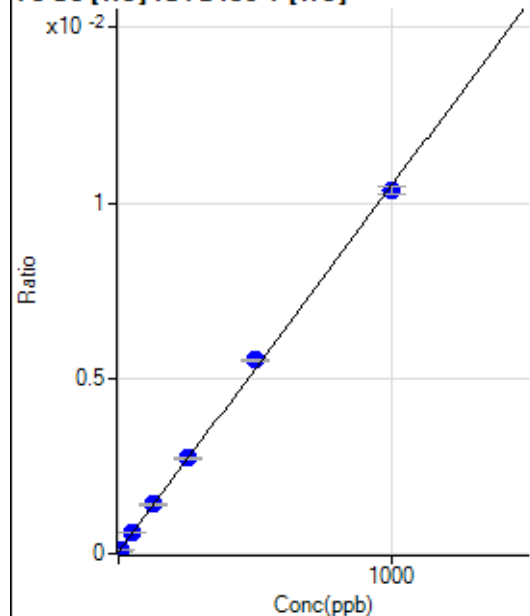
$$R = 0.9992$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	74.01	0.0001	P	10.7
2	☐	5.000	5.106	154.35	0.0001	P	3.6
3	☐	50.000	53.252	891.45	0.0006	P	2.9
4	☐	125.000	129.780	2096.71	0.0014	P	2.9
5	☐	250.000	255.431	3920.61	0.0027	P	1.1
6	☐	500.000	523.338	7809.96	0.0055	P	1.7
7	☐	1000.000	986.212	15253.12	0.0103	P	2.1
8	☐			87.34	0.0001	P	6.7

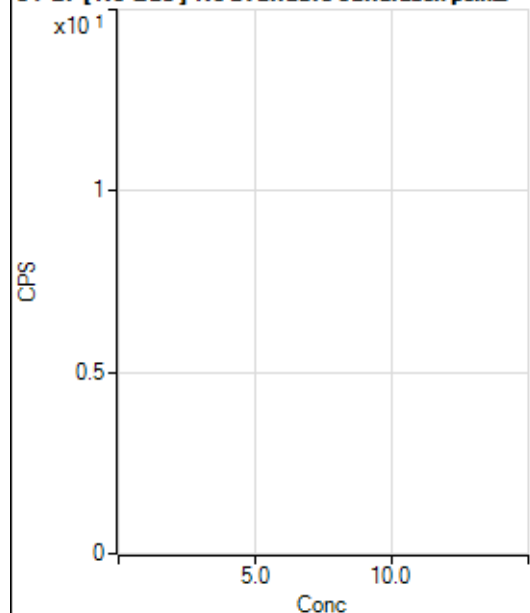
$$y = 1.0432\text{E-}005 * x + 5.3028\text{E-}005$$

$$R = 0.9996$$

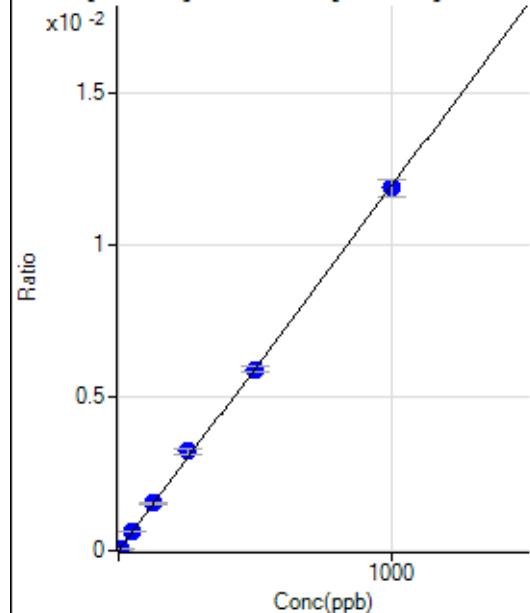
$$DL = 1.627$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43118.56		P	2.1
2	☐			43392.88		P	1.7
3	☐			44564.90		P	0.7
4	☐			43399.58		P	2.0
5	☐			42258.66		P	3.5
6	☐			39289.79		P	0.9
7	☐			41675.61		P	3.0
8	☐			42662.96		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	-66.68	0.0000	P	-71.
2	☐	5.000	5.498	881.45	0.0001	P	10.9
3	☐	50.000	51.316	9080.18	0.0006	P	2.2
4	☐	125.000	129.272	22666.52	0.0015	P	1.6
5	☐	250.000	271.610	44650.48	0.0032	P	7.0
6	☐	500.000	498.159	88190.20	0.0059	P	2.3
7	☐	1000.000	994.916	174706.56	0.0119	P	4.6
8	☐			314.65	0.0000	P	60.3

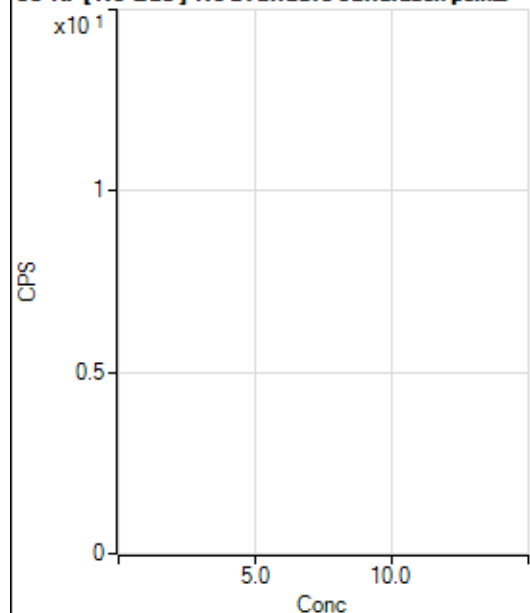
$$y = 1.1932E-005 * x - 4.6874E-006$$

$$R = 0.9997$$

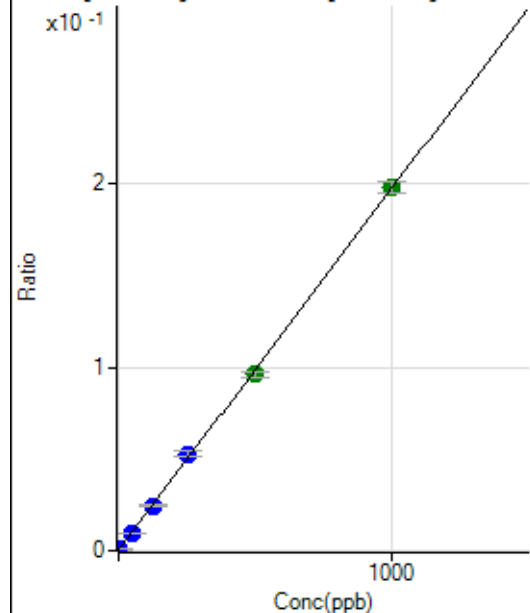
$$DL = 0.8371$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4606.86		P	0.5
2	☐			4452.24		P	1.7
3	☐			4583.52		P	1.2
4	☐			4561.85		P	1.2
5	☐			4456.83		P	1.9
6	☐			4415.99		P	1.7
7	☐			4578.93		P	1.9
8	☐			4549.77		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7218.75	0.0005	P	3.4
2	☐	1.000	0.840	9667.44	0.0007	P	2.4
3	☐	50.000	46.908	145363.57	0.0097	P	1.5
4	☐	125.000	122.693	363079.74	0.0246	P	1.4
5	☐	250.000	265.932	728906.15	0.0528	P	5.8
6	☐	500.000	486.625	1428229.84	0.0962	A	3.3
7	☐	1000.000	1003.148	2913300.82	0.1978	A	3.0
8	☐			26637.08	0.0018	P	3.8

$$y = 1.9666E-004 * x + 5.0335E-004$$

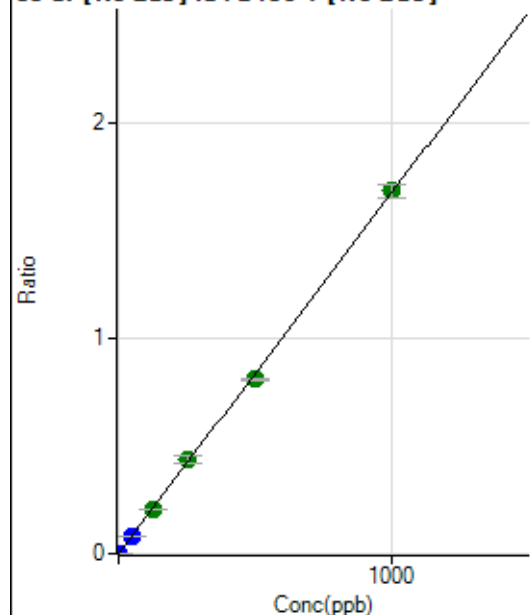
$$R = 0.9997$$

$$DL = 0.2605$$

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	144.45	0.0000	P	30.6
2	☐	1.000	0.997	24305.09	0.0017	P	1.6
3	☐	50.000	49.062	1229326.69	0.0823	P	0.4
4	☐	125.000	123.635	3055562.55	0.2073	A	0.5
5	☐	250.000	260.941	6034215.72	0.4374	A	7.7
6	☐	500.000	483.714	12042749.49	0.8109	A	1.5
7	☐	1000.000	1005.625	24834235.27	1.6858	A	3.9
8	☐			166468.58	0.0114	P	2.9

$$y = 0.0017 * x + 1.0105E-005$$

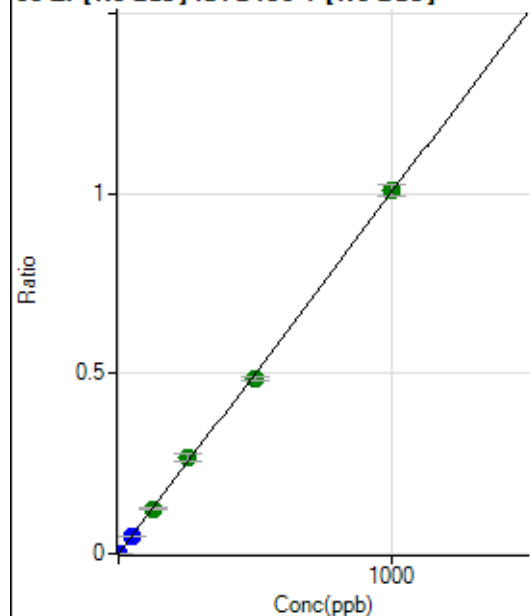
$$R = 0.9997$$

$$DL = 0.005525$$

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	577.81	0.0000	P	12.9
2	☐	1.000	0.958	14466.23	0.0010	P	3.1
3	☐	50.000	48.695	729500.52	0.0488	P	1.5
4	☐	125.000	124.870	1844616.08	0.1251	A	0.8
5	☐	250.000	264.477	3655218.87	0.2650	A	7.6
6	☐	500.000	483.218	7188378.29	0.4841	A	2.2
7	☐	1000.000	1004.853	14826155.71	1.0066	A	3.3
8	☐			7871.90	0.0005	P	7.1

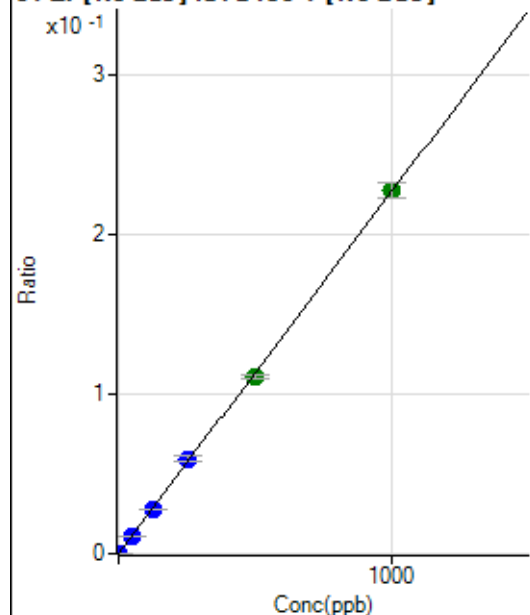
$$y = 0.0010 * x + 4.0222E-005$$

$$R = 0.9997$$

$$DL = 0.01558$$

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	61.11	0.0000	P	70.7
2	☐	1.000	0.933	3125.43	0.0002	P	3.9
3	☐	50.000	47.494	161121.65	0.0108	P	2.9
4	☐	125.000	122.343	409401.61	0.0278	P	1.1
5	☐	250.000	261.919	820410.17	0.0595	P	6.9
6	☐	500.000	490.227	1652551.38	0.1113	A	1.9
7	☐	1000.000	1002.364	3350248.45	0.2275	A	4.2
8	☐			1697.38	0.0001	P	13.2

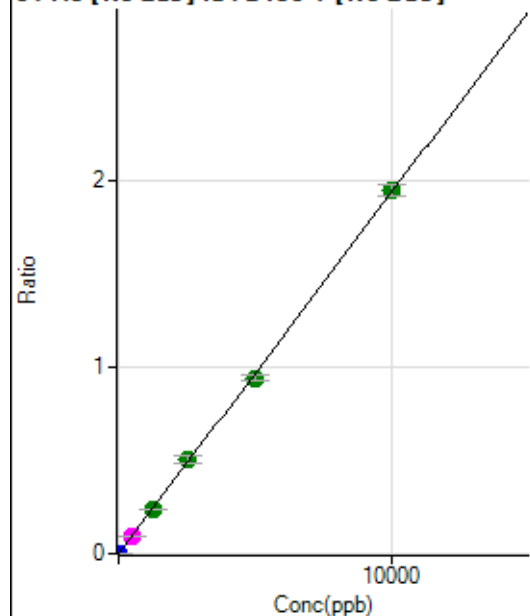
$$y = 2.2698\text{E-}004 * x + 4.2623\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.0398$$

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	188.90	0.0000	P	48.4
2	☐	5.000	5.832	16526.97	0.0011	P	0.4
3	☐	500.000	484.537	1402617.75	0.0939	M	1.9
4	☐	1250.000	1221.777	3488001.81	0.2367	A	3.3
5	☐	2500.000	2606.112	6965601.20	0.5048	A	6.9
6	☐	5000.000	4865.623	13995257.95	0.9425	A	3.1
7	☐	10000.000	10044.961	28660339.88	1.9458	A	3.1
8	☐			11374.43	0.0008	P	7.1

$$y = 1.9370\text{E-}004 * x + 1.3205\text{E-}005$$

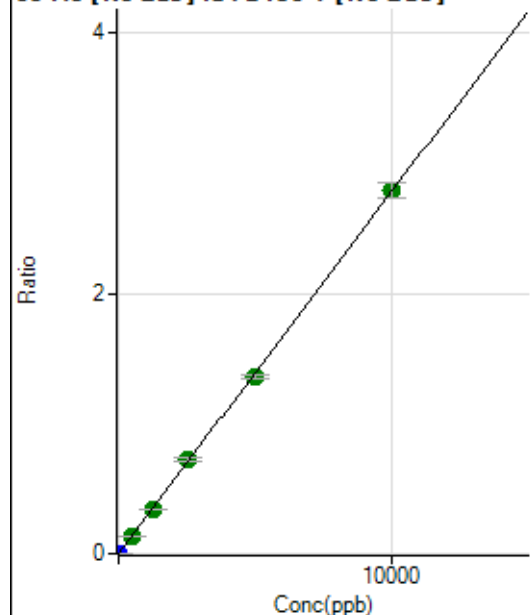
$$R = 0.9998$$

$$DL = 0.09889$$

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	38.89	0.0000	P	55.0
2	☐	5.000	5.024	20237.47	0.0014	P	2.1
3	☐	500.000	480.299	1994780.73	0.1335	A	3.0
4	☐	1250.000	1219.970	4998637.09	0.3392	A	2.5
5	☐	2500.000	2617.631	10054413.33	0.7277	A	3.8
6	☐	5000.000	4889.497	20182210.52	1.3593	A	2.7
7	☐	10000.000	10030.583	41063723.14	2.7885	A	4.2
8	☐			13623.71	0.0009	P	8.5

$$y = 2.7800E-004 * x + 2.7286E-006$$

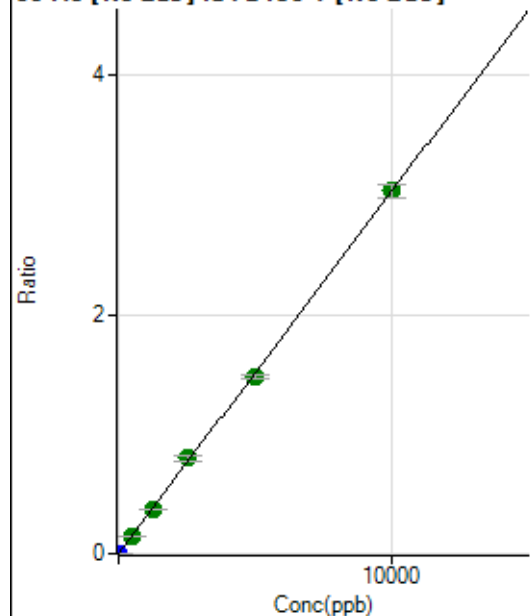
$$R = 0.9998$$

$$DL = 0.01621$$

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	472.24	0.0000	P	11.1
2	☐	5.000	5.005	22382.46	0.0015	P	2.4
3	☐	500.000	483.922	2188546.88	0.1465	A	3.1
4	☐	1250.000	1223.765	5459262.45	0.3704	A	2.3
5	☐	2500.000	2630.229	10996680.19	0.7961	A	4.3
6	☐	5000.000	4908.558	22059387.30	1.4856	A	2.2
7	☐	10000.000	10017.247	44654198.57	3.0317	A	3.6
8	☐			39285.04	0.0027	P	5.6

$$y = 3.0264E-004 * x + 3.2950E-005$$

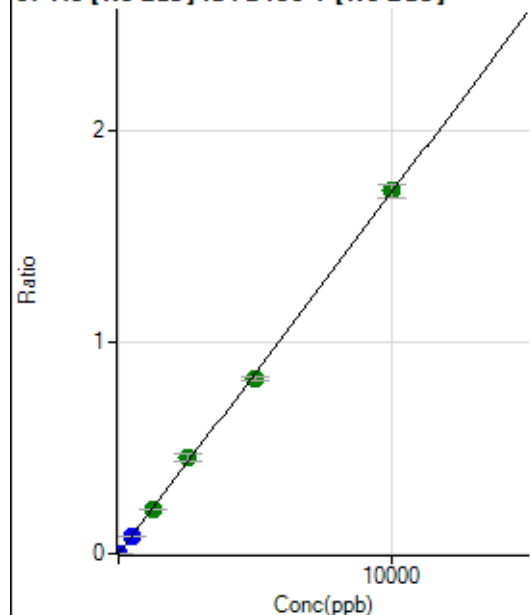
$$R = 0.9998$$

$$DL = 0.03636$$

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	19.44	0.0000	P	89.3
2	☐	5.000	4.969	12275.18	0.0008	P	2.1
3	☐	500.000	487.150	1241229.29	0.0831	P	2.7
4	☐	1250.000	1224.583	3078134.31	0.2088	A	2.2
5	☐	2500.000	2654.479	6246108.86	0.4527	A	7.0
6	☐	5000.000	4850.595	12283209.48	0.8272	A	2.3
7	☐	10000.000	10039.902	25215590.32	1.7122	A	3.8
8	☐			8205.41	0.0006	P	6.4

$$y = 1.7054E-004 * x + 1.3703E-006$$

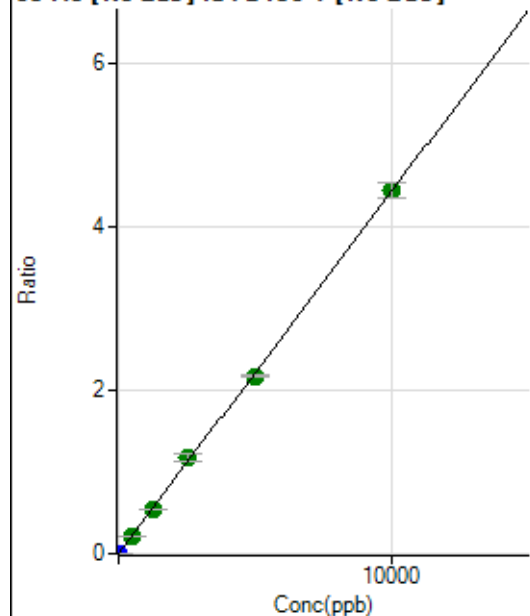
$$R = 0.9997$$

$$DL = 0.02153$$

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	150.01	0.0000	P	19.6
2	☐	5.000	5.180	33296.13	0.0023	P	1.5
3	☐	500.000	481.084	3180096.64	0.2129	A	3.3
4	☐	1250.000	1214.216	7918738.89	0.5373	A	2.3
5	☐	2500.000	2650.653	16187418.59	1.1728	A	6.4
6	☐	5000.000	4902.491	32213176.76	2.1692	A	1.4
7	☐	10000.000	10016.510	65261812.57	4.4319	A	4.1
8	☐			20438.04	0.0014	P	12.1

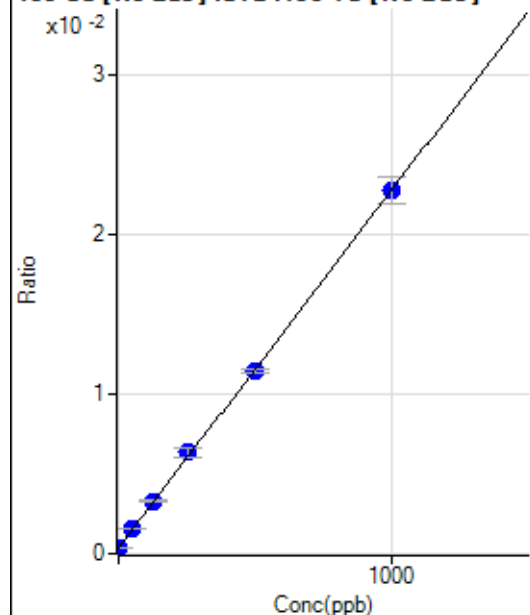
$$y = 4.4246E-004 * x + 1.0447E-005$$

$$R = 0.9998$$

$$DL = 0.01387$$

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	3481.09	0.0004	P	2.3
2	☐	1.000	0.846	3645.02	0.0004	P	4.0
3	☐	50.000	52.991	15333.92	0.0015	P	2.2
4	☐	125.000	129.914	32483.64	0.0033	P	4.1
5	☐	250.000	266.553	61703.39	0.0063	P	8.5
6	☐	500.000	493.370	117562.15	0.0114	P	2.1
7	☐	1000.000	998.413	232403.32	0.0227	P	7.4
8	☐			3547.78	0.0004	P	2.5

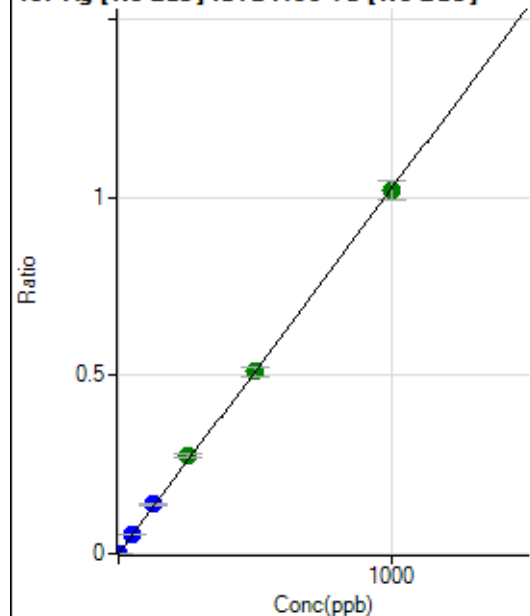
$$y = 2.2422\text{E-}005 * x + 3.5751\text{E-}004$$

$$R = 0.9998$$

$$DL = 1.119$$

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	83.34	0.0000	P	26.5
2	☐	1.000	1.024	10234.65	0.0011	P	5.1
3	☐	50.000	53.045	538264.70	0.0543	P	3.9
4	☐	125.000	135.295	1375088.39	0.1384	P	1.4
5	☐	250.000	269.752	2691830.92	0.2760	A	5.0
6	☐	500.000	498.627	5250058.23	0.5101	A	4.6
7	☐	1000.000	994.310	10400300.67	1.0172	A	5.3
8	☐			4948.28	0.0005	P	3.3

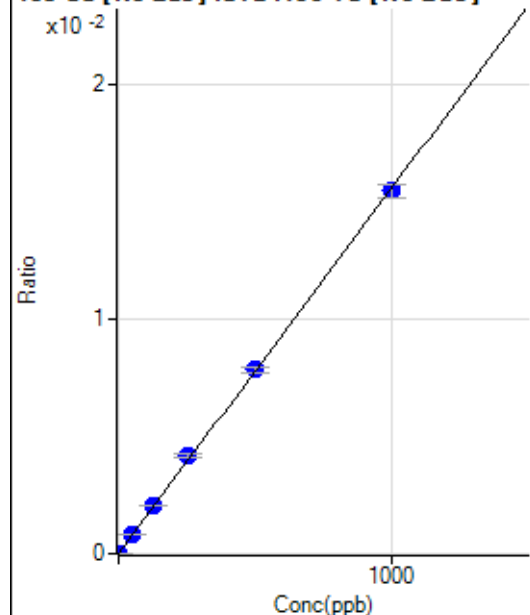
$$y = 0.0010 * x + 8.5608\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.006657$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	79.17	0.0000	P	40.1
2	☐	1.000	1.161	254.17	0.0000	P	12.5
3	☐	50.000	52.056	8131.69	0.0008	P	3.2
4	☐	125.000	131.598	20458.42	0.0021	P	1.1
5	☐	250.000	268.418	40889.92	0.0042	P	4.4
6	☐	500.000	502.657	80730.98	0.0078	P	2.9
7	☐	1000.000	993.139	158429.99	0.0155	P	3.8
8	☐			108.34	0.0000	P	21.8

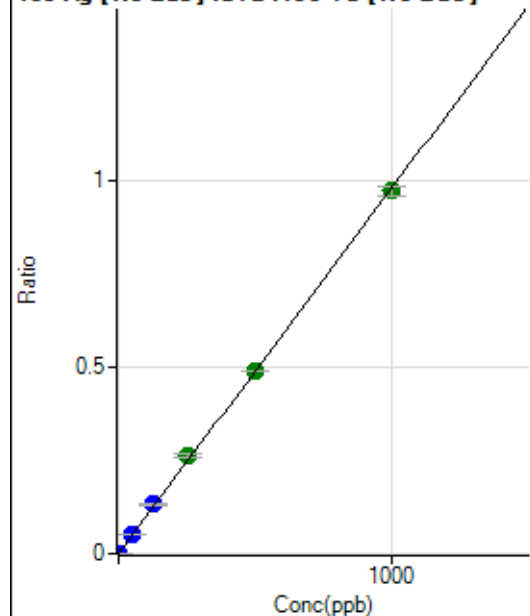
$$y = 1.5587\text{E-}005 * x + 8.1378\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.6277$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.78	0.0000	P	50.6
2	☐	1.000	1.069	10165.16	0.0011	P	6.0
3	☐	50.000	54.788	531652.65	0.0536	P	0.3
4	☐	125.000	134.481	1306411.12	0.1315	P	2.5
5	☐	250.000	267.281	2550611.47	0.2614	A	3.4
6	☐	500.000	501.752	5051624.90	0.4907	A	0.4
7	☐	1000.000	993.379	9941093.97	0.9715	A	2.5
8	☐			4434.18	0.0004	P	0.9

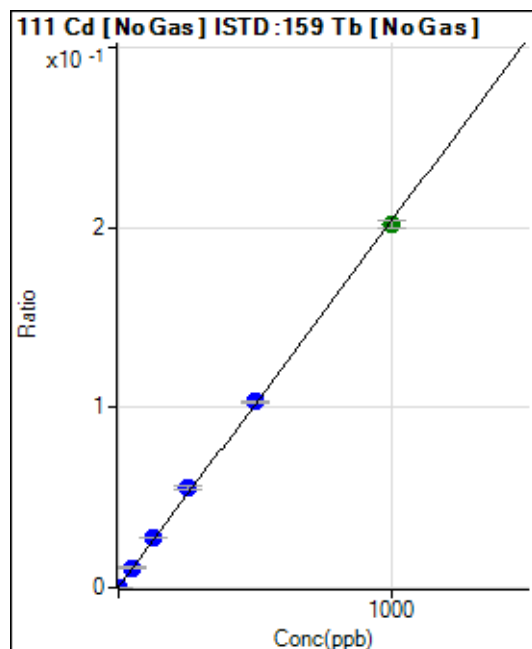
$$y = 9.7795\text{E-}004 * x + 5.4168\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.008401$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2423.02	0.0002	P	3.3
2	☐	1.000	1.146	4668.26	0.0005	P	1.6
3	☐	50.000	53.701	110799.23	0.0112	P	2.8
4	☐	125.000	134.810	274860.26	0.0277	P	1.3
5	☐	250.000	272.376	542657.63	0.0556	P	5.1
6	☐	500.000	507.449	1065121.97	0.1035	P	1.0
7	☐	1000.000	989.270	2061778.89	0.2014	A	2.0
8	☐			3096.53	0.0003	P	1.0

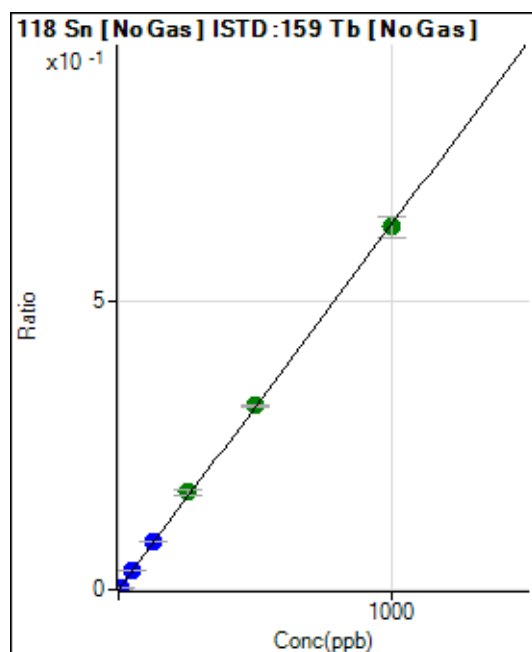
$$y = 2.0338\text{E-}004 * x + 2.4884\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.1207$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	605.59	0.0001	P	13.6
2	☐	5.000	5.187	32391.82	0.0033	P	4.5
3	☐	50.000	52.044	327523.85	0.0330	P	1.1
4	☐	125.000	130.983	824371.31	0.0830	P	1.7
5	☐	250.000	266.447	1645247.71	0.1687	A	5.8
6	☐	500.000	503.180	3280284.06	0.3186	A	0.4
7	☐	1000.000	993.447	6430821.54	0.6290	A	5.5
8	☐			5417.90	0.0005	P	5.3

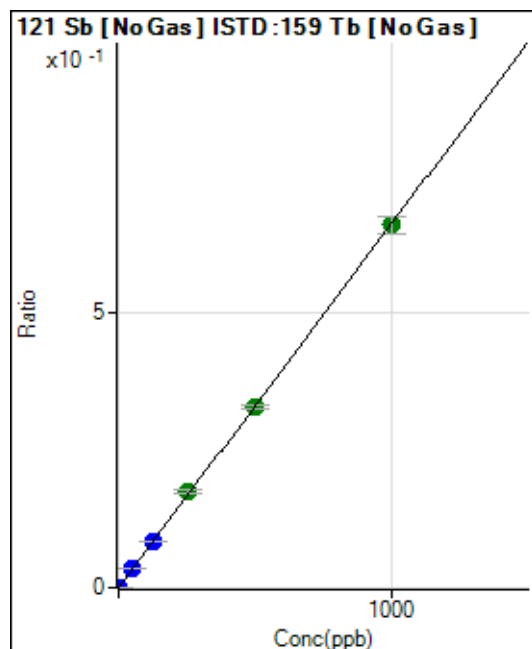
$$y = 6.3310\text{E-}004 * x + 6.2215\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.03998$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0000	P	28.4
2	☐	2.000	2.023	13053.82	0.0013	P	1.5
3	☐	50.000	51.265	337548.25	0.0340	P	1.9
4	☐	125.000	128.164	845026.16	0.0851	P	0.2
5	☐	250.000	264.507	1711932.55	0.1755	A	4.9
6	☐	500.000	497.844	3400894.74	0.3304	A	2.2
7	☐	1000.000	996.992	6766420.07	0.6616	A	4.6
8	☐			4011.83	0.0004	P	5.3

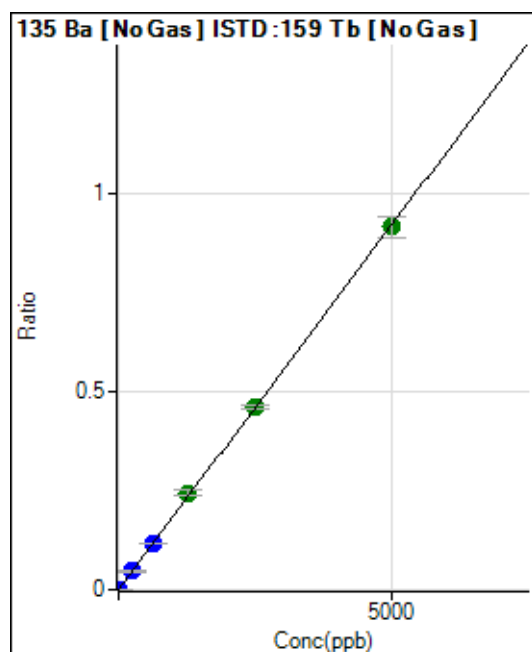
$$y = 6.6361E-004 * x + 4.5623E-006$$

$$R = 0.9999$$

$$DL = 0.005857$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	69.1
2	☐	10.000	10.002	17853.88	0.0018	P	1.1
3	☐	250.000	253.336	462663.76	0.0466	P	2.5
4	☐	625.000	639.024	1168750.11	0.1177	P	1.5
5	☐	1250.000	1325.017	2377622.01	0.2440	A	6.8
6	☐	2500.000	2505.791	4749131.27	0.4613	A	1.7
7	☐	5000.000	4976.431	9365589.18	0.9162	A	6.0
8	☐			4778.76	0.0005	P	5.8

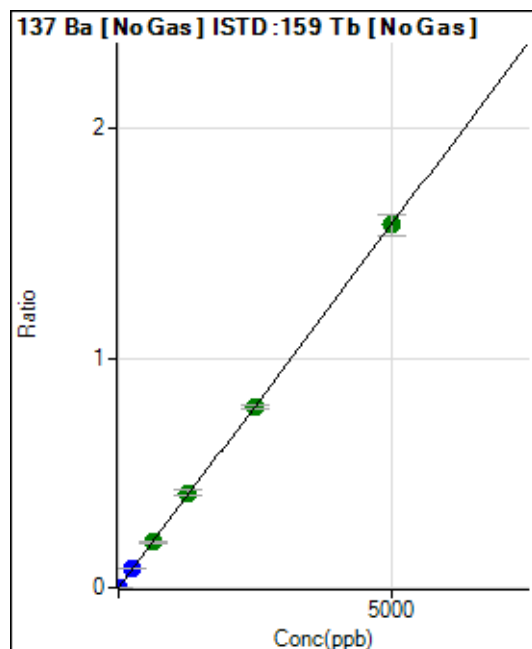
$$y = 1.8411E-004 * x + 1.4251E-006$$

$$R = 0.9999$$

$$DL = 0.01605$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	66.0
2	☐	10.000	10.257	31456.83	0.0033	P	5.9
3	☐	250.000	254.688	799848.63	0.0806	P	1.4
4	☐	625.000	628.757	1977117.62	0.1990	A	2.7
5	☐	1250.000	1298.746	4007563.98	0.4111	A	6.4
6	☐	2500.000	2490.393	8115517.63	0.7884	A	2.2
7	☐	5000.000	4991.913	16155235.95	1.5803	A	5.8
8	☐			8294.45	0.0008	P	7.3

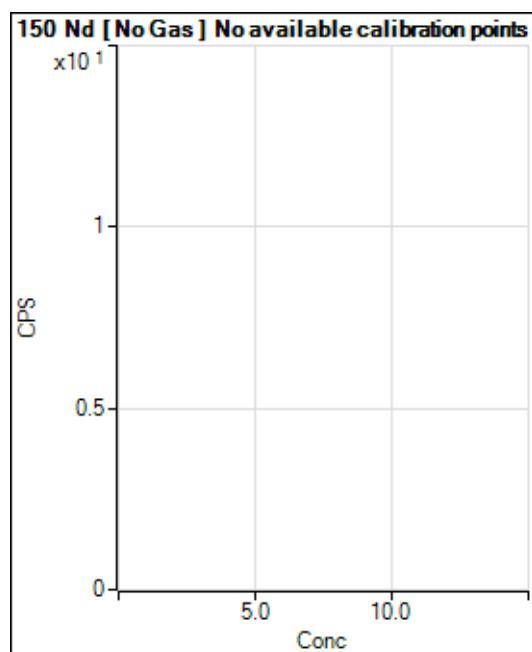
$$y = 3.1656E-004 * x + 3.4206E-006$$

$$R = 0.9999$$

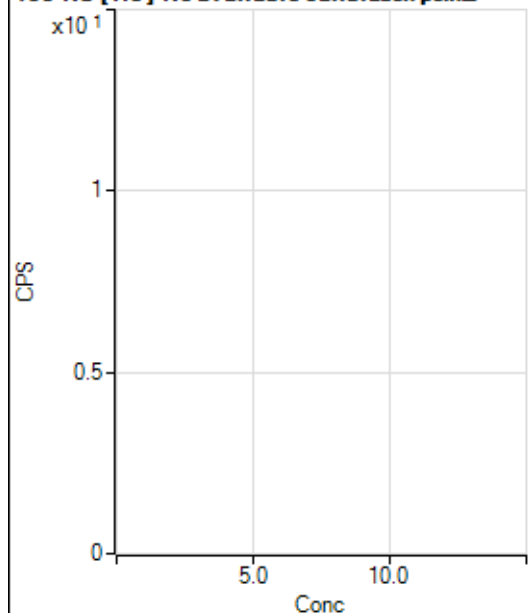
$$DL = 0.02139$$

Weight: <None>

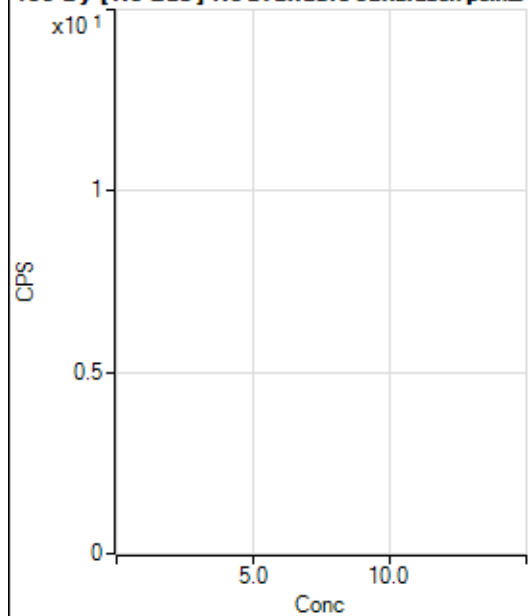
Min Conc: 0



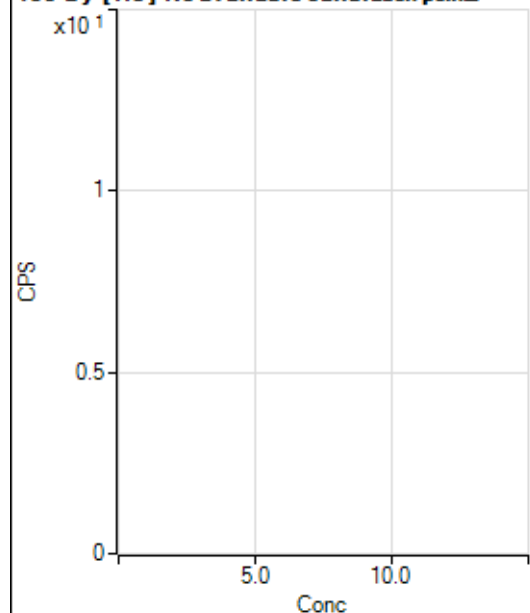
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	173.
2	☐			11.11		P	124.
3	☐			31.11		P	68.9
4	☐			53.34		P	33.1
5	☐			140.00		P	19.0
6	☐			293.34		P	8.2
7	☐			595.58		P	3.6
8	☐			80.00		P	38.2

150 Nd [He] No available calibration points

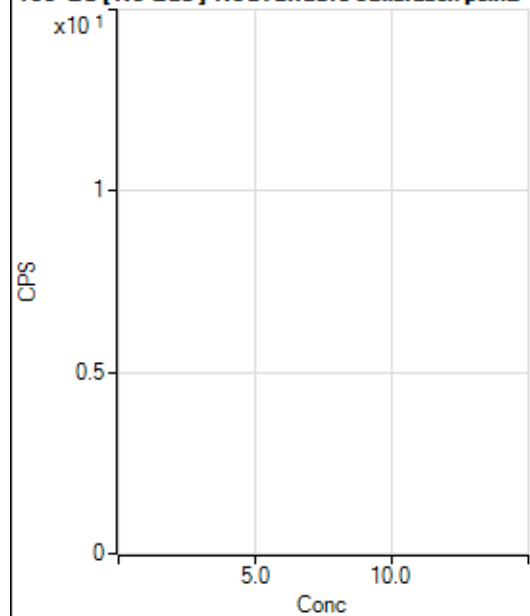
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	173.
3	☐			2.22		P	86.6
4	☐			13.33		P	25.0
5	☐			13.33		P	100.
6	☐			23.33		P	37.8
7	☐			44.45		P	8.7
8	☐			31.11		P	30.9

156 Dy [No Gas] No available calibration points

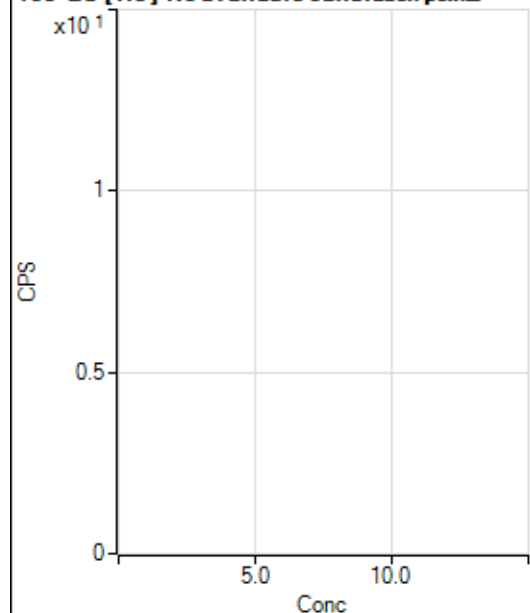
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐			13.89		P	34.7
3	☐			27.78		P	45.8
4	☐			55.56		P	34.6
5	☐			113.89		P	18.4
6	☐			233.34		P	15.6
7	☐			363.91		P	15.2
8	☐			880.61		P	7.9

156 Dy [He] No available calibration points

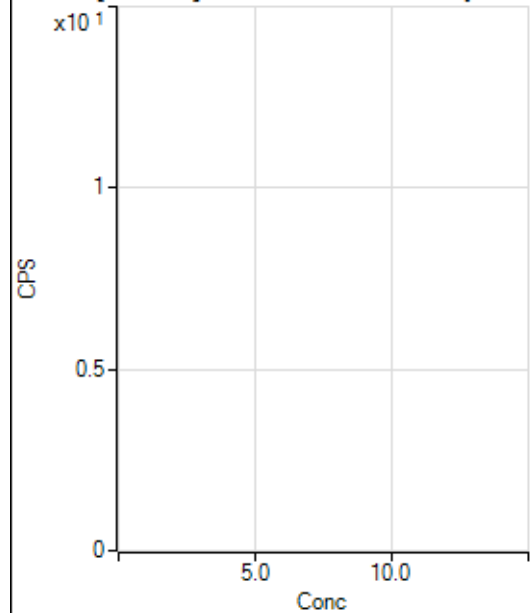
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			14.45		P	48.0
4	☐			20.00		P	60.1
5	☐			44.45		P	8.7
6	☐			83.33		P	17.4
7	☐			171.12		P	9.2
8	☐			305.56		P	7.3

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

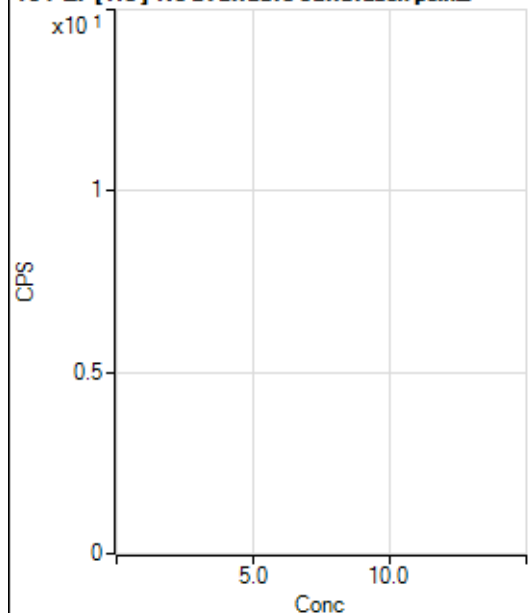
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	101.
2	☐			52.78		P	24.1
3	☐			69.45		P	34.6
4	☐			88.89		P	32.9
5	☐			136.12		P	28.3
6	☐			233.34		P	3.6
7	☐			383.35		P	9.5
8	☐			711.15		P	7.6

160 Gd [He] No available calibration points

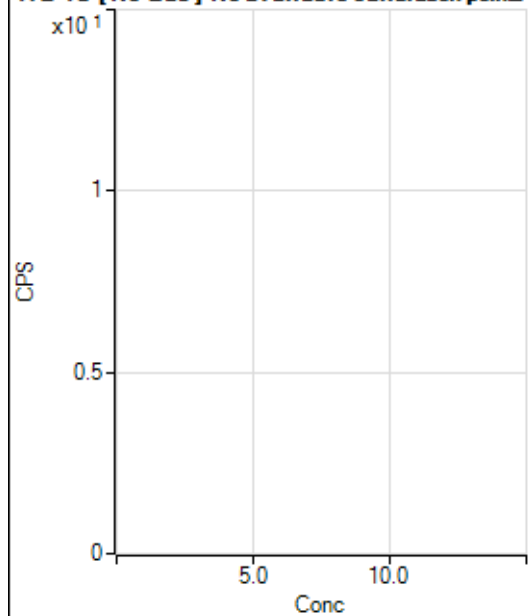
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.44		P	17.7
2	☐			56.66		P	20.4
3	☐			57.78		P	16.6
4	☐			77.78		P	8.9
5	☐			76.67		P	7.5
6	☐			118.89		P	15.9
7	☐			213.34		P	24.3
8	☐			326.67		P	4.4

164 Er [No Gas] No available calibration points

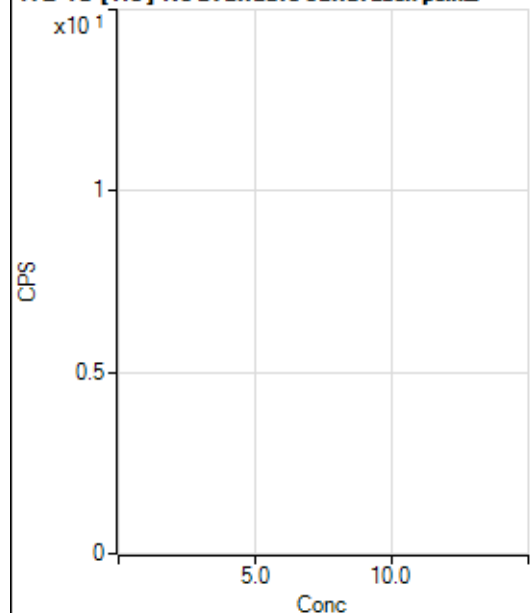
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	40.6
2	☐			75.00		P	22.2
3	☐			80.56		P	23.9
4	☐			58.33		P	14.3
5	☐			97.22		P	26.2
6	☐			105.56		P	12.1
7	☐			163.89		P	7.8
8	☐			111.11		P	30.3

164 Er [He] No available calibration points

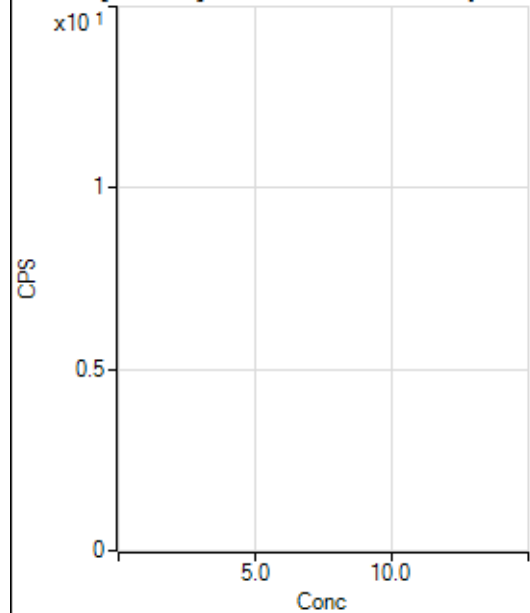
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	21.6
2	☐			17.78		P	84.6
3	☐			26.67		P	21.7
4	☐			30.00		P	50.9
5	☐			38.89		P	30.1
6	☐			61.11		P	33.3
7	☐			75.56		P	10.2
8	☐			50.00		P	11.5

172 Yb [No Gas] No available calibration points

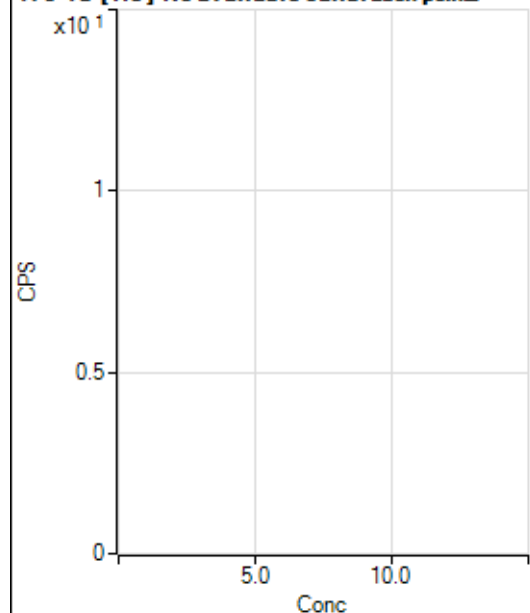
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	48.2
2	☐			38.89		P	44.6
3	☐			63.89		P	39.8
4	☐			80.56		P	15.8
5	☐			61.11		P	56.8
6	☐			86.11		P	34.0
7	☐			152.78		P	6.3
8	☐			197.23		P	21.3

172 Yb [He] No available calibration points

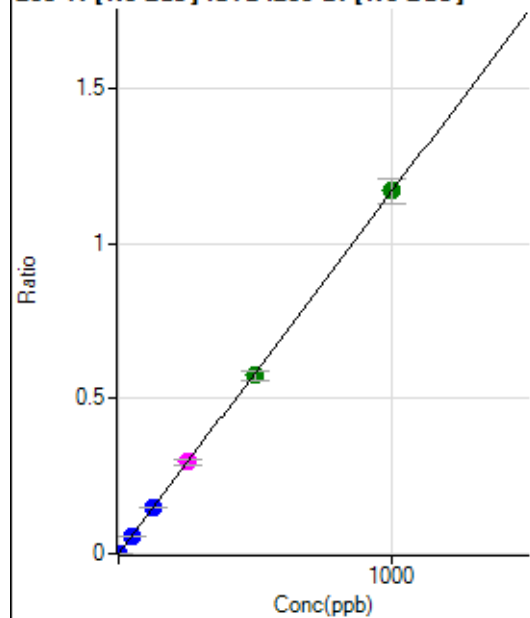
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.93		P	44.6
2	☐			33.33		P	16.7
3	☐			24.08		P	26.6
4	☐			20.37		P	31.5
5	☐			46.29		P	48.5
6	☐			33.33		P	44.1
7	☐			62.97		P	35.7
8	☐			81.48		P	32.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1113.97		P	19.1
2	☐			1200.09		P	4.2
3	☐			2444.76		P	3.4
4	☐			4656.51		P	5.8
5	☐			7902.60		P	1.9
6	☐			15490.08		P	3.4
7	☐			30374.54		P	1.7
8	☐			1311.22		P	10.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3609.82		P	7.7
2	☐			3661.68		P	9.2
3	☐			4210.00		P	4.0
4	☐			5184.44		P	4.1
5	☐			6385.02		P	3.2
6	☐			9296.01		P	5.2
7	☐			15668.82		P	0.8
8	☐			3759.87		P	7.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	377.79	0.0001	P	21.1
2	☐	1.000	0.927	6535.19	0.0011	P	3.1
3	☐	50.000	47.396	320743.25	0.0554	P	3.0
4	☐	125.000	125.998	842058.04	0.1471	P	0.6
5	☐	250.000	253.436	1675577.64	0.2958	M	6.1
6	☐	500.000	491.951	3475105.07	0.5742	A	5.8
7	☐	1000.000	1003.171	6848340.17	1.1708	A	6.6
8	☐			3181.04	0.0006	P	7.3

$$y = 0.0012 * x + 6.7915E-005$$

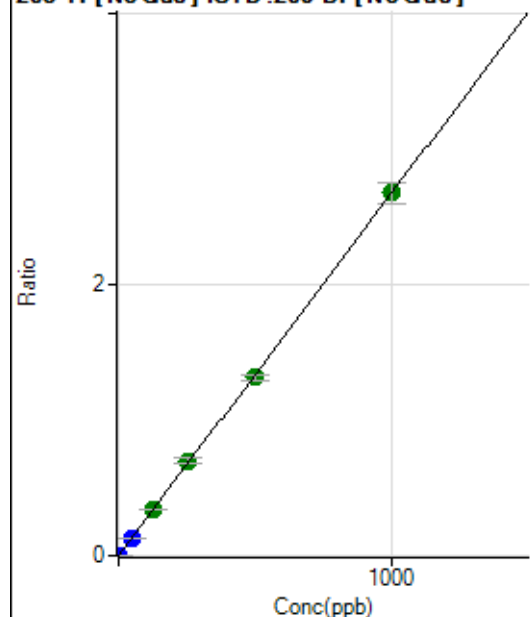
$$R = 0.9999$$

$$DL = 0.03688$$

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	883.39	0.0002	P	10.0
2	☐	1.000	0.971	15665.52	0.0028	P	1.1
3	☐	50.000	49.239	763513.51	0.1319	P	3.6
4	☐	125.000	127.803	1957315.04	0.3420	A	2.1
5	☐	250.000	261.688	3963984.85	0.7001	A	6.8
6	☐	500.000	491.267	7955820.93	1.3141	A	3.7
7	☐	1000.000	1001.132	15669017.02	2.6778	A	5.5
8	☐			7266.16	0.0015	P	3.2

$$y = 0.0027 * x + 1.5856E-004$$

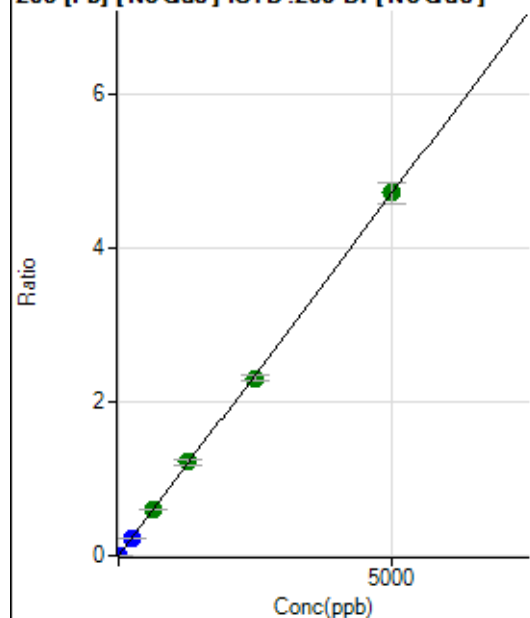
$$R = 0.9999$$

$$DL = 0.01774$$

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	674.10	0.0001	P	14.8
2	☐	1.000	0.955	5797.72	0.0010	P	5.4
3	☐	250.000	240.651	1312824.44	0.2267	P	3.1
4	☐	625.000	631.072	3401484.65	0.5942	A	0.7
5	☐	1250.000	1292.348	6888250.85	1.2168	A	7.5
6	☐	2500.000	2450.049	13966035.84	2.3067	A	3.6
7	☐	5000.000	5014.097	27618705.48	4.7207	A	5.9
8	☐			7144.70	0.0014	P	7.3

$$y = 9.4146E-004 * x + 1.2114E-004$$

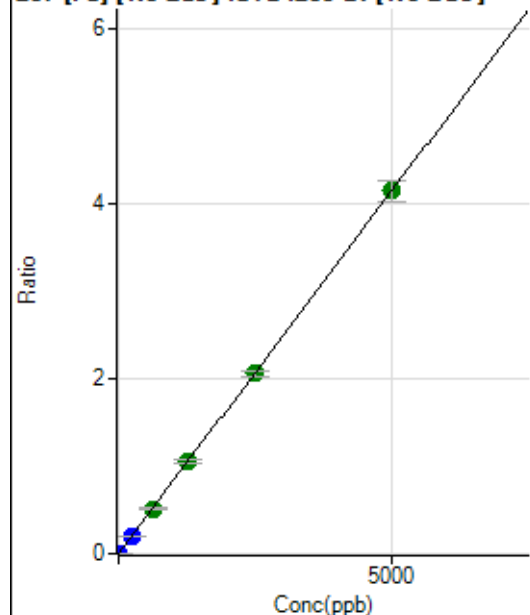
$$R = 0.9999$$

$$DL = 0.05726$$

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	583.36	0.0001	P	10.2
2	☐	1.000	0.905	4845.43	0.0009	P	6.7
3	☐	250.000	238.942	1145275.68	0.1977	P	2.0
4	☐	625.000	622.209	2946047.61	0.5147	A	1.4
5	☐	1250.000	1272.065	5959868.19	1.0521	A	5.8
6	☐	2500.000	2481.141	12426861.27	2.0521	A	2.7
7	☐	5000.000	5004.815	24217313.04	4.1393	A	5.7
8	☐			6212.74	0.0012	P	8.5

$$y = 8.2703\text{E-}004 * x + 1.0465\text{E-}004$$

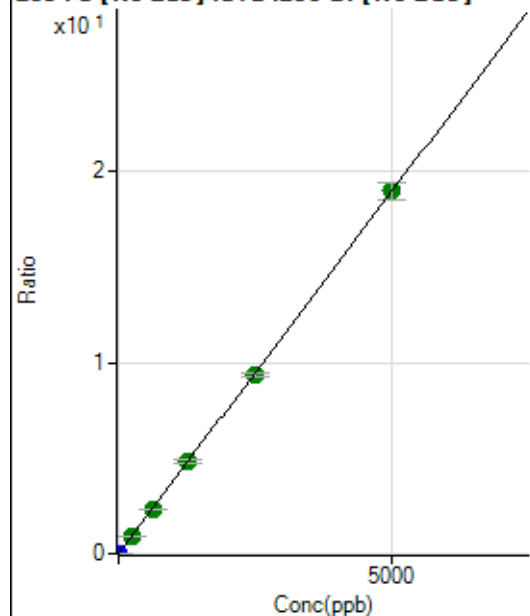
$$R = 1.0000$$

$$DL = 0.03863$$

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	2611.27	0.0005	P	6.1
2	☐	1.000	0.930	22682.32	0.0040	P	3.8
3	☐	250.000	241.031	5294010.94	0.9140	A	2.0
4	☐	625.000	615.012	13344282.07	2.3313	A	0.7
5	☐	1250.000	1272.132	27315335.57	4.8218	A	5.6
6	☐	2500.000	2464.158	56559805.20	9.3395	A	2.3
7	☐	5000.000	5014.085	111219826.7	19.0036	A	4.7
8	☐			28416.52	0.0057	P	7.9

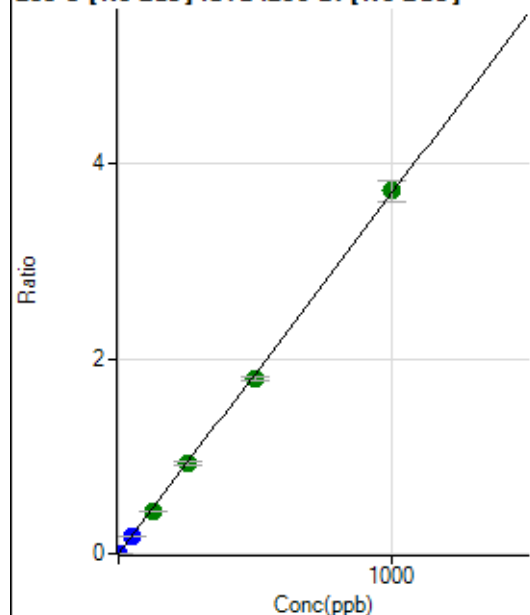
$$y = 0.0038 * x + 4.6839\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02267$$

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	16.66	0.0000	P	86.3
2	☐	1.000	0.916	19234.60	0.0034	P	2.5
3	☐	50.000	46.444	992846.66	0.1714	P	2.4
4	☐	125.000	117.773	2488049.21	0.4347	A	1.2
5	☐	250.000	251.577	5263624.34	0.9285	A	3.7
6	☐	500.000	485.927	10861731.23	1.7935	A	3.0
7	☐	1000.000	1007.723	21762816.11	3.7193	A	5.7
8	☐			2097.46	0.0004	P	13.4

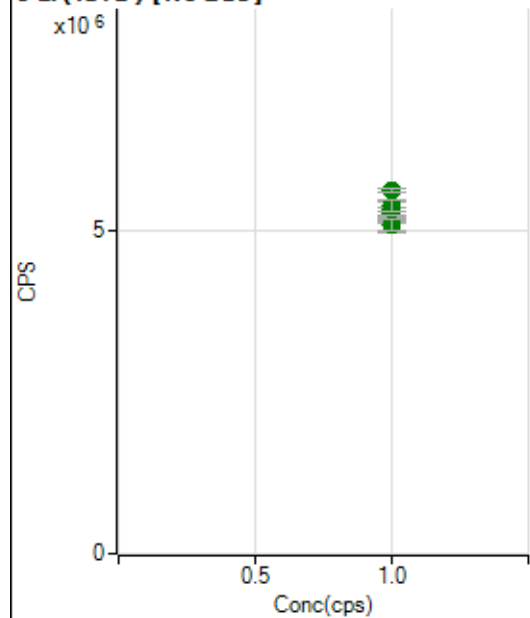
$$y = 0.0037 * x + 2.9838E-006$$

$$R = 0.9998$$

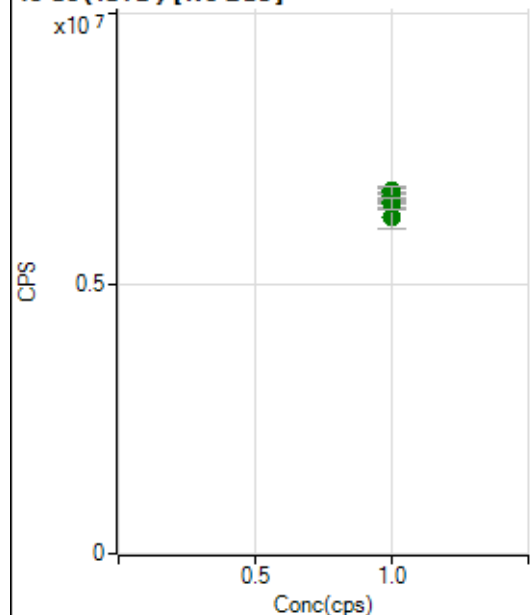
$$DL = 0.002093$$

Weight: <None>

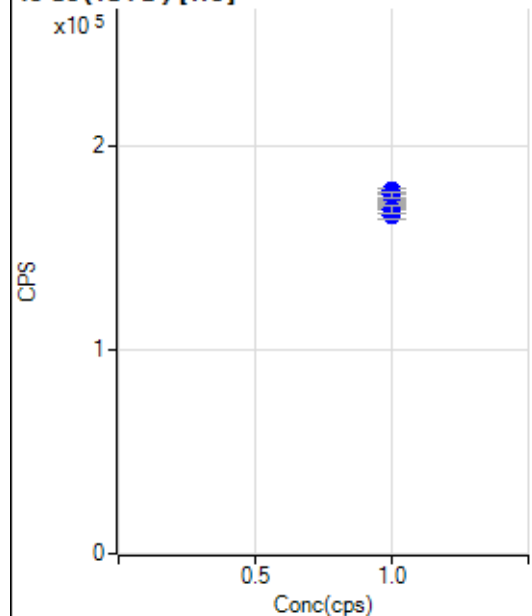
Min Conc: 0

6 Li (ISTD) [No Gas]

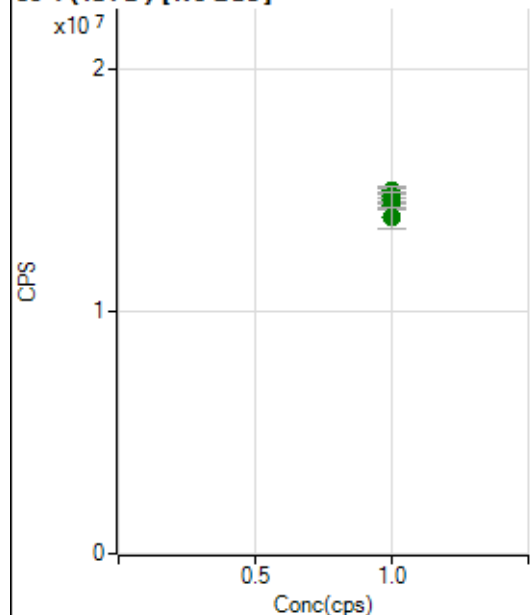
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5277498.76		A	0.2
2	☐	1.000		5121344.79		A	0.6
3	☐	1.000		5247255.71		A	3.3
4	☐	1.000		5326577.73		A	4.3
5	☐	1.000		5080619.51		A	5.3
6	☐	1.000		5604528.50		A	0.9
7	☐	1.000		5372314.51		A	3.5
8	☐	1.000		5088420.26		A	3.6

45 Sc (ISTD) [No Gas]

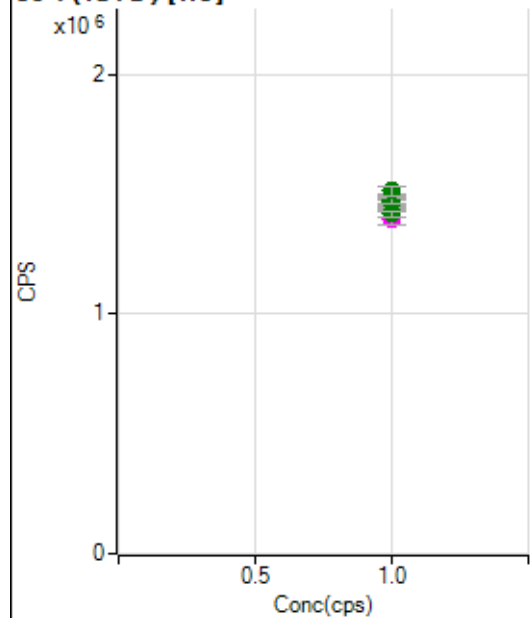
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6539136.64		A	0.4
2	☐	1.000		6527946.29		A	0.9
3	☐	1.000		6619551.01		A	1.3
4	☐	1.000		6681270.94		A	0.2
5	☐	1.000		6220712.62		A	6.2
6	☐	1.000		6721475.59		A	1.6
7	☐	1.000		6692774.62		A	3.2
8	☐	1.000		6480200.25		A	3.3

45 Sc (ISTD) [He]

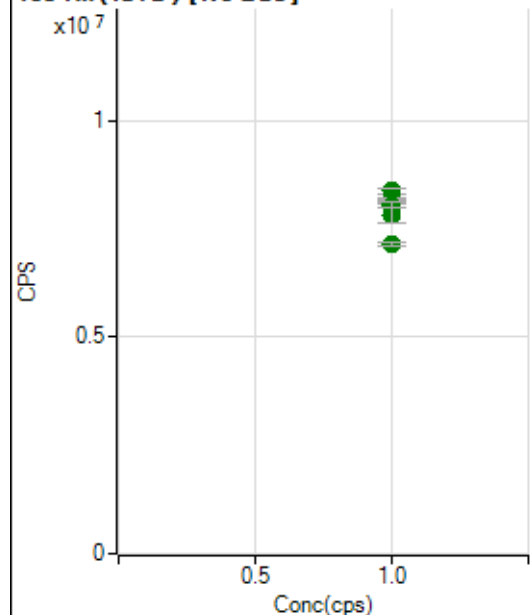
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		166489.33		P	2.8
2	☐	1.000		173202.00		P	0.5
3	☐	1.000		172807.24		P	0.1
4	☐	1.000		171968.14		P	2.0
5	☐	1.000		172491.86		P	0.4
6	☐	1.000		168915.48		P	2.5
7	☐	1.000		178042.42		P	1.5
8	☐	1.000		176169.76		P	1.9

89 Y (ISTD) [No Gas]

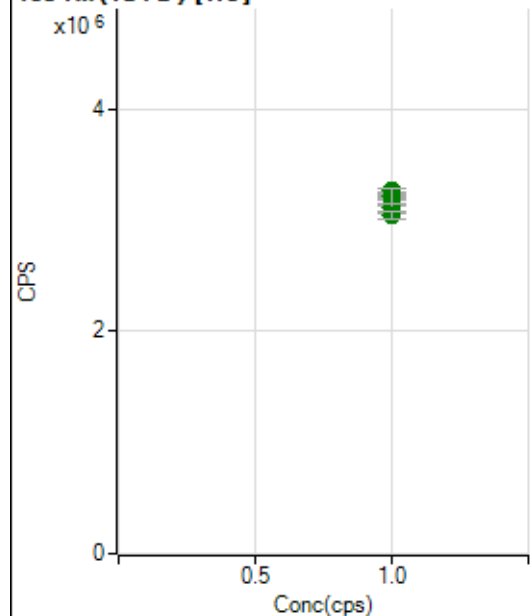
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14347400.90		A	1.9
2	☐	1.000		14462020.20		A	0.7
3	☐	1.000		14945715.89		A	2.1
4	☐	1.000		14741882.70		A	1.3
5	☐	1.000		13839697.99		A	6.5
6	☐	1.000		14853470.20		A	2.2
7	☐	1.000		14744064.78		A	4.7
8	☐	1.000		14582576.59		A	4.0

89 Y (ISTD) [He]

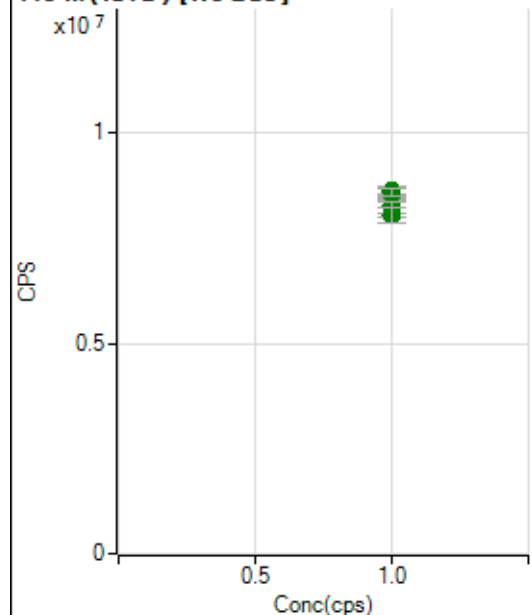
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1398507.56		M	3.8
2	☐	1.000		1452500.50		A	1.5
3	☐	1.000		1464797.13		A	1.3
4	☐	1.000		1490107.34		A	1.1
5	☐	1.000		1442615.45		A	0.4
6	☐	1.000		1417064.77		A	2.1
7	☐	1.000		1475291.92		A	1.7
8	☐	1.000		1514095.27		A	2.7

103 Rh (ISTD) [No Gas]

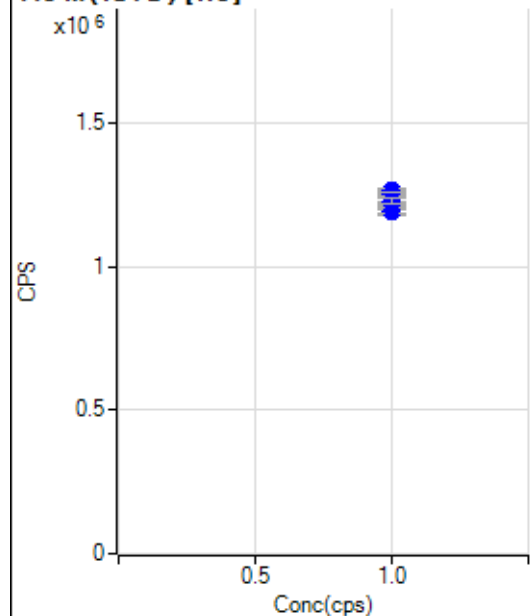
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8138060.51		A	1.7
2	☐	1.000		8071674.14		A	1.7
3	☐	1.000		8377891.94		A	1.9
4	☐	1.000		8194759.30		A	0.7
5	☐	1.000		7805912.41		A	4.4
6	☐	1.000		8057177.18		A	2.1
7	☐	1.000		7806271.96		A	4.5
8	☐	1.000		7151058.41		A	1.2

103 Rh (ISTD) [He]

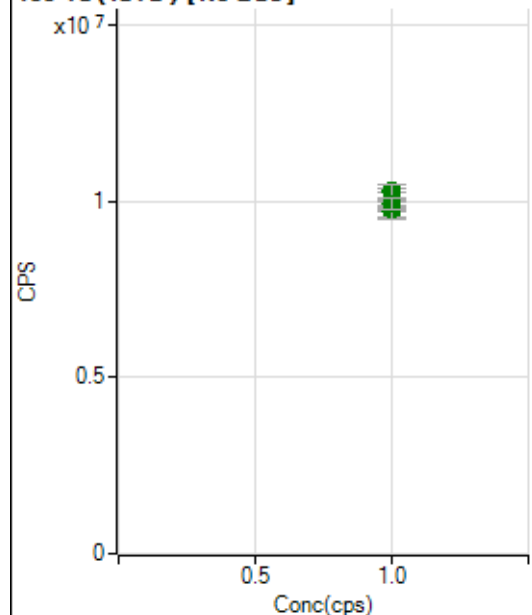
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3175242.17		A	2.8
2	☐	1.000		3262657.07		A	1.9
3	☐	1.000		3240037.56		A	0.5
4	☐	1.000		3221140.44		A	0.9
5	☐	1.000		3175545.61		A	1.4
6	☐	1.000		3117622.97		A	3.8
7	☐	1.000		3213444.95		A	4.0
8	☐	1.000		3046526.59		A	2.2

115 In (ISTD) [No Gas]

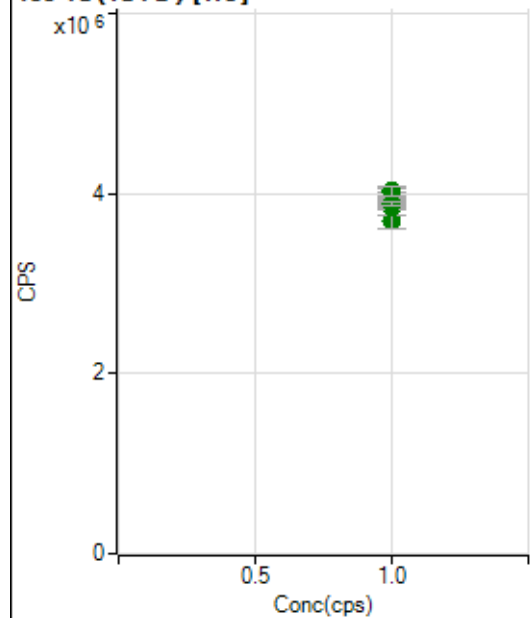
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8422784.73		A	1.1
2	☐	1.000		8413019.83		A	0.6
3	☐	1.000		8616244.18		A	1.3
4	☐	1.000		8627805.84		A	2.1
5	☐	1.000		8263606.64		A	6.0
6	☐	1.000		8589875.36		A	2.2
7	☐	1.000		8224822.59		A	3.3
8	☐	1.000		8063180.27		A	4.4

115 In (ISTD) [He]

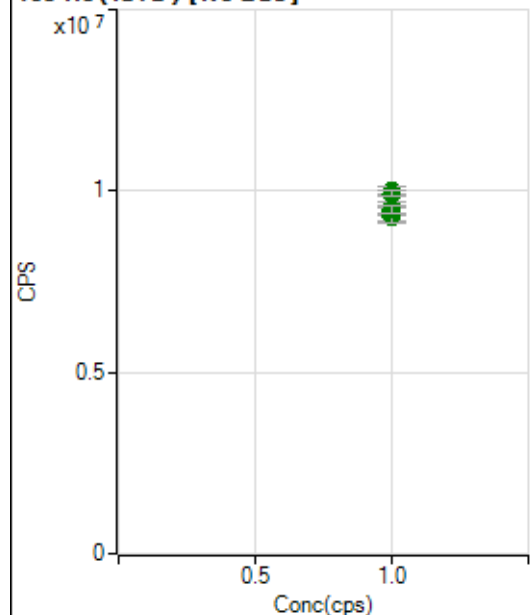
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1203327.30		P	4.0
2	☐	1.000		1257912.65		P	1.4
3	☐	1.000		1263408.54		P	1.2
4	☐	1.000		1250852.92		P	0.9
5	☐	1.000		1215953.85		P	0.4
6	☐	1.000		1192752.34		P	1.2
7	☐	1.000		1206701.69		P	0.4
8	☐	1.000		1227692.13		P	1.7

159 Tb (ISTD) [No Gas]

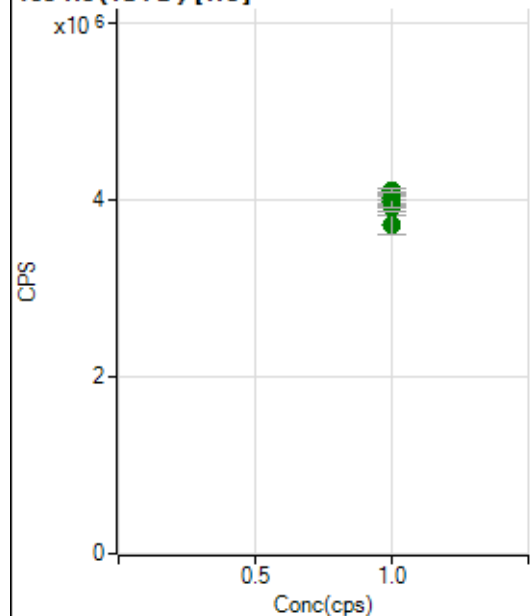
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9736596.66		A	0.3
2	☐	1.000		9688720.97		A	3.0
3	☐	1.000		9921723.12		A	1.6
4	☐	1.000		9935038.53		A	1.2
5	☐	1.000		9769277.42		A	5.2
6	☐	1.000		10295179.36		A	1.0
7	☐	1.000		10240866.72		A	4.6
8	☐	1.000		9950281.73		A	3.3

159 Tb (ISTD) [He]

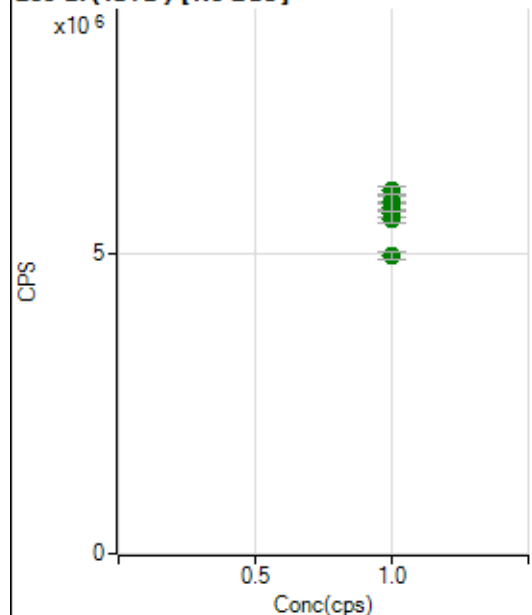
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3684105.05		A	4.3
2	☐	1.000		3883507.10		A	0.5
3	☐	1.000		3836748.21		A	0.5
4	☐	1.000		3898574.31		A	1.7
5	☐	1.000		3895204.42		A	2.3
6	☐	1.000		3888057.06		A	1.4
7	☐	1.000		4025420.08		A	1.0
8	☐	1.000		4021228.97		A	2.2

165 Ho (ISTD) [No Gas]

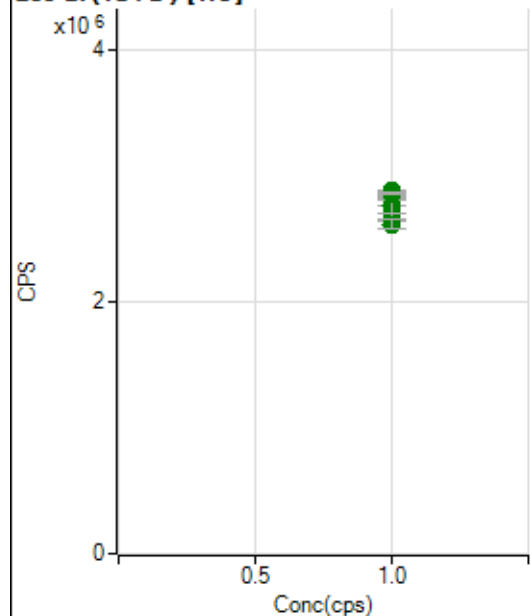
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9276111.23		A	1.7
2	☐	1.000		9372826.60		A	0.4
3	☐	1.000		9459129.64		A	2.4
4	☐	1.000		9620171.48		A	1.9
5	☐	1.000		9330941.44		A	5.0
6	☐	1.000		10000793.19		A	2.0
7	☐	1.000		9933337.90		A	1.9
8	☐	1.000		9489041.01		A	2.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3726493.14		A	5.7
2	☐	1.000		3921294.67		A	0.5
3	☐	1.000		3936835.46		A	0.8
4	☐	1.000		3907176.23		A	1.4
5	☐	1.000		4020702.72		A	1.0
6	☐	1.000		3980613.17		A	3.5
7	☐	1.000		4081511.26		A	1.0
8	☐	1.000		4104914.77		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5575953.60		A	2.1
2	☐	1.000		5685924.50		A	2.7
3	☐	1.000		5794546.93		A	2.9
4	☐	1.000		5724036.72		A	0.8
5	☐	1.000		5676549.71		A	5.5
6	☐	1.000		6058679.49		A	3.0
7	☐	1.000		5861370.05		A	4.8
8	☐	1.000		4979699.65		A	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2701807.01		A	4.3
2	☐	1.000		2817994.50		A	0.8
3	☐	1.000		2876195.30		A	0.7
4	☐	1.000		2822526.14		A	0.3
5	☐	1.000		2827789.05		A	1.1
6	☐	1.000		2754127.60		A	4.5
7	☐	1.000		2856600.55		A	0.6
8	☐	1.000		2609929.10		A	3.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8050222 MS.b

Acq. Date-Time 2022-05-02 11:37:31

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		13981	139809.71			2.235	5.000
24		94756	947557.66			2.130	5.000
25		12224	122241.53			2.816	5.000
26		14546	145463.21			2.842	5.000
59		20667	206674.91			2.419	5.000
113		9955	99549.30			1.376	5.000
115		30747	307467.36			3.589	5.000
206		11548	115476.30			2.078	5.000
207		9649	96487.33			2.802	5.000
208		23712	237118.10			2.229	5.000
220		0	4.40			24.636	

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

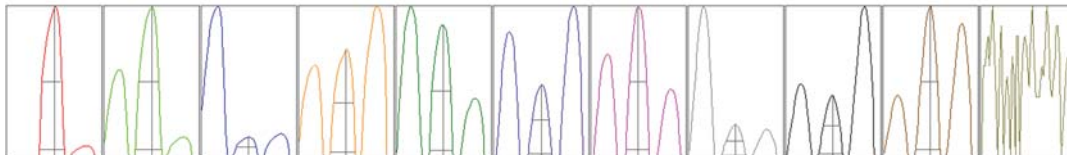
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14118	13425	14120	14168	14075
24	95562	91253	96236	95836	94892
25	12327	11671	12613	12302	12209
26	14586	13882	15023	14586	14655
59	20751	19812	21040	21011	20724
113	10030	9719	10027	10046	9953
115	32476	30146	31046	30484	29581
206	11422	11200	11665	11818	11632
207	9546	9226	9848	9884	9739
208	23375	22952	24106	24175	23951

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	24493.23	9.05	8.90 - 9.10	
24	160733.56	24.05	23.90 - 24.10	
25	20702.65	25.00	24.90 - 25.10	
26	24363.52	26.00	25.90 - 26.10	
59	37018.04	59.00	58.90 - 59.10	
113	19817.40	113.05	112.90 - 113.10	
115	60055.42	115.00	114.90 - 115.10	
206	22963.19	206.00	205.90 - 206.10	
207	19086.83	207.00	206.90 - 207.10	
208	46881.13	208.00	207.90 - 208.10	
220	0.00	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.783	0.900	
24	0.63	0.826	0.900	
25	0.63	0.786	0.900	
26	0.64	0.788	0.900	
59	0.59	0.738	0.900	
113	0.52	0.730	0.900	
115	0.53	0.729	0.900	
206	0.52	0.764	0.900	
207	0.52	0.752	0.900	
208	0.52	0.769	0.900	
220	0.30	0.300		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	9.5 V	Deflect	15.8 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	130 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2320 V	Pulse HV	1695 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3767	37672.42			3.546	
89		14321	143207.23			3.623	
205		24618	246180.09			2.713	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3838	3893	3772	3791	3543
89	14475	14793	14370	14530	13436
205	24881	25301	24507	24868	23534

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	9.5 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-145.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 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	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2320 V	Pulse HV	1695 V
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