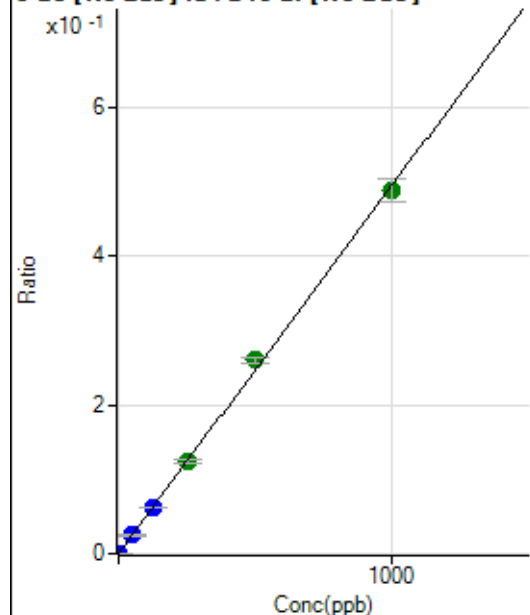


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8032622 MS.b\
Analysis File: P8032622 MS.batch.bin
DA Date-Time: 2022-03-26 20:18:59
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-03-26 13:04:36
2	006CALS.d	S02	2022-03-26 13:10:45
3	007CALS.d	S03	2022-03-26 13:13:48
4	008CALS.d	S04	2022-03-26 13:16:53
5	009CALS.d	S05	2022-03-26 13:19:56
6	010CALS.d	S06	2022-03-26 13:23:02
7	011CALS.d	S07	2022-03-26 13:26:05
8	012CALS.d	S08	2022-03-26 13:29:11

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	25.33	0.0000	P	25.3
2	☐	1.000	1.045	4164.45	0.0005	P	0.5
3	☐	50.000	50.988	200913.07	0.0252	P	7.8
4	☐	125.000	124.817	515228.95	0.0617	P	1.5
5	☐	250.000	251.417	1035658.46	0.1244	A	3.5
6	☐	500.000	525.767	1997973.36	0.2601	A	3.1
7	☐	1000.000	986.736	3923748.54	0.4881	A	6.5
8	☐			739.89	0.0001	P	18.4

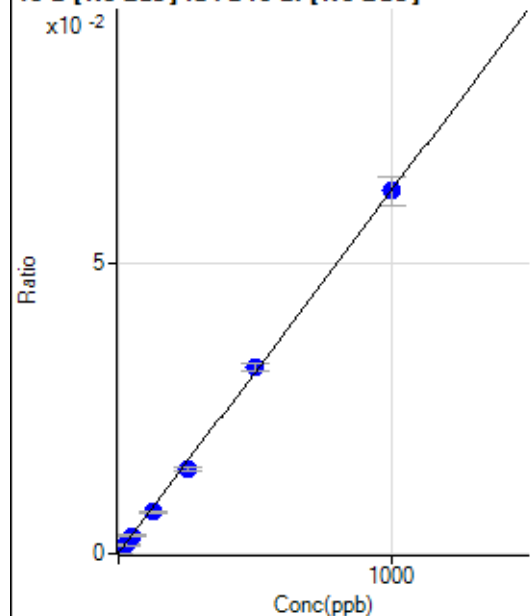
$$y = 4.9464\text{E-}004 * x + 3.1269\text{E-}006$$

$$R = 0.9995$$

$$DL = 0.004789$$

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	713.21	0.0001	P	1.8
2	☐	25.000	23.048	12181.37	0.0015	P	5.9
3	☐	50.000	48.704	24872.47	0.0031	P	8.3
4	☐	125.000	113.899	59860.80	0.0072	P	6.2
5	☐	250.000	231.232	120618.04	0.0145	P	3.5
6	☐	500.000	513.411	246114.11	0.0320	P	4.2
7	☐	1000.000	999.488	500658.91	0.0623	P	7.6
8	☐			71909.68	0.0096	P	9.8

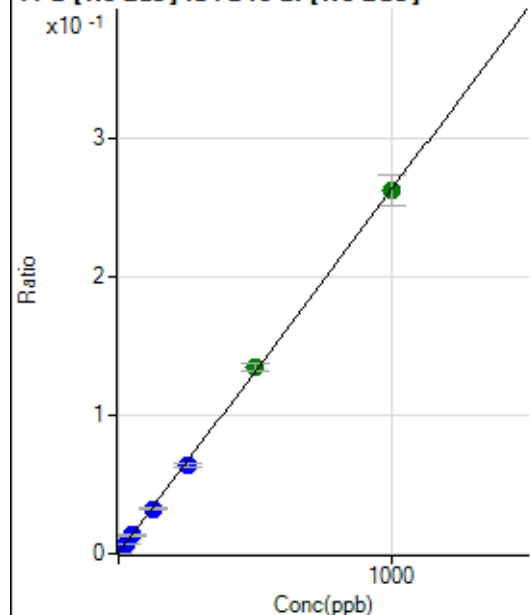
$$y = 6.2227\text{E-}005 * x + 8.8344\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.07496$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3166.40	0.0004	P	3.5
2	☐	25.000	24.477	54653.15	0.0068	P	7.8
3	☐	50.000	49.151	106305.54	0.0133	P	6.0
4	☐	125.000	120.915	268705.54	0.0322	P	5.1
5	☐	250.000	243.078	536214.77	0.0644	P	4.8
6	☐	500.000	511.948	1038279.87	0.1351	A	3.7
7	☐	1000.000	996.323	2109259.74	0.2626	A	8.6
8	☐			310115.93	0.0416	P	8.4

$$y = 2.6313E-004 * x + 3.9267E-004$$

$$R = 0.9999$$

$$DL = 0.1589$$

Weight: <None>

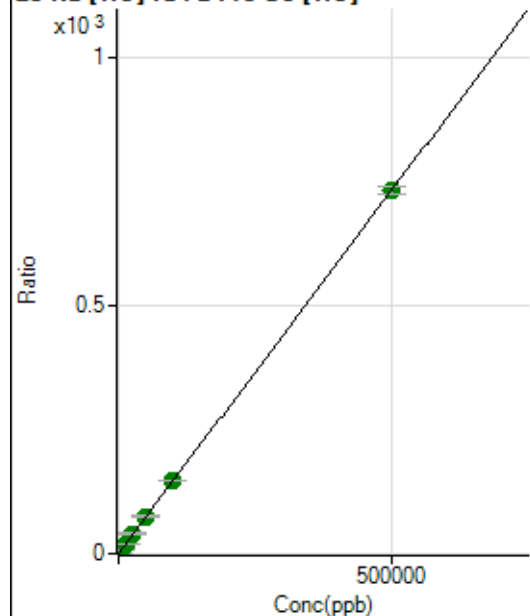
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			9475401.60		A	1.6
2	☐			9540402.47		A	0.7
3	☐			10399170.98		A	0.7
4	☐			10554120.72		A	2.2
5	☐			10725284.96		A	0.3
6	☐			10823953.89		A	1.4
7	☐			12115660.95		A	1.3
8	☐			10727936.70		A	1.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			85940.73		P	0.8
2	☐			87049.58		P	1.2
3	☐			93754.79		P	0.6
4	☐			96576.02		P	2.0
5	☐			97569.03		P	1.2
6	☐			103429.93		P	1.2
7	☐			119313.84		P	0.9
8	☐			107212.17		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12711.37	0.0511	P	3.8
2	☐	500.000	454.108	180462.20	0.7168	P	1.8
3	☐	5000.000	5093.622	1899569.29	7.5175	A	0.2
4	☐	12500.000	12762.076	4621274.41	18.7583	A	2.3
5	☐	25000.000	27028.726	9125481.80	39.6709	A	5.7
6	☐	50000.000	51598.704	17840448.32	75.6865	A	1.8
7	☐	100000.00	100743.04	36873982.77	147.7241	A	1.5
8	☐	500000.00	499582.64	181766461.0	732.3585	A	2.1

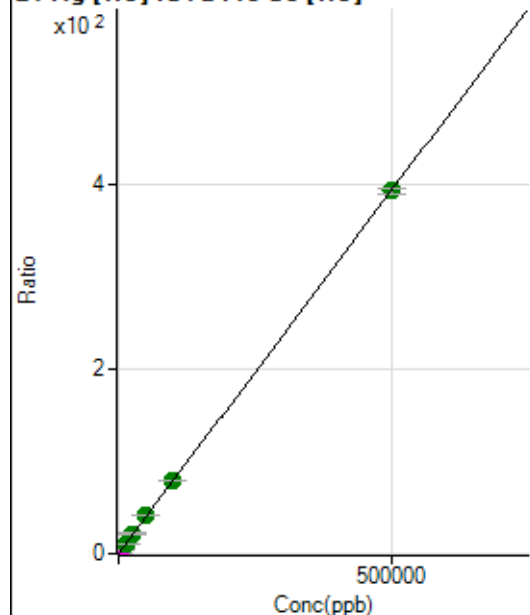
$$y = 0.0015 * x + 0.0511$$

$$R = 1.0000$$

$$DL = 4.001$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	316.68	0.0013	P	14.7
2	☐	500.000	470.879	93615.57	0.3718	P	3.0
3	☐	5000.000	5107.580	1015821.23	4.0206	M	3.2
4	☐	12500.000	13082.562	2536832.54	10.2964	A	1.4
5	☐	25000.000	27620.274	4996198.33	21.7366	A	7.1
6	☐	50000.000	52080.915	9660924.61	40.9856	A	0.9
7	☐	100000.00	101318.20	19903636.38	79.7321	A	0.6
8	☐	500000.00	499381.64	97534057.74	392.9823	A	1.4

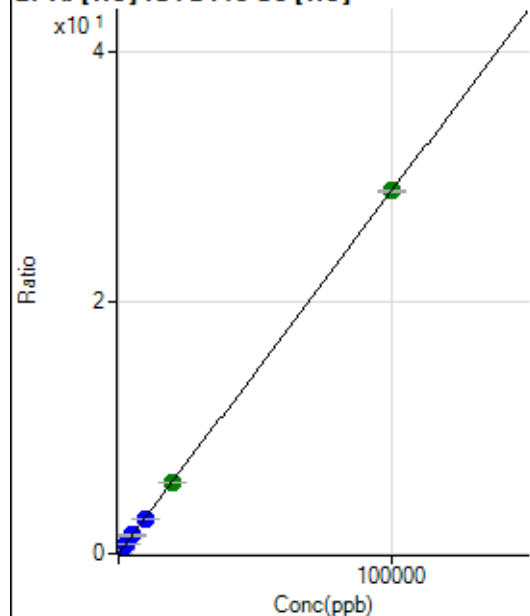
$$y = 7.8694\text{E-}004 * x + 0.0013$$

$$R = 1.0000$$

$$DL = 0.7147$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.32	0.0003	P	7.4
2	☐	20.000	18.570	1432.82	0.0057	P	2.9
3	☐	1000.000	977.923	71368.13	0.2825	P	1.2
4	☐	2500.000	2437.908	173350.63	0.7036	P	1.1
5	☐	5000.000	5187.748	343731.94	1.4969	P	8.9
6	☐	10000.000	9737.863	662267.19	2.8096	P	0.6
7	☐	20000.000	19736.958	1421414.07	5.6942	A	0.5
8	☐	100000.00	100071.20	7165787.83	28.8696	A	0.3

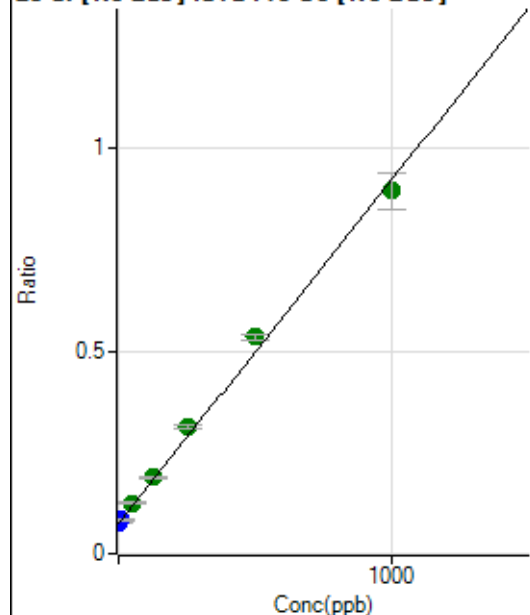
$$y = 2.8849\text{E-}004 * x + 3.3504\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2592$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	745227.02	0.0743	P	1.5
2	☐	10.000	11.669	834699.94	0.0842	P	4.2
3	☐	50.000	60.250	1272377.29	0.1254	A	3.2
4	☐	125.000	134.947	1935141.67	0.1888	A	2.7
5	☐	250.000	280.206	3061546.60	0.3121	A	2.7
6	☐	500.000	544.371	5182597.73	0.5362	A	2.6
7	☐	1000.000	968.490	9132379.72	0.8960	A	10.4
8	☐			2306428.05	0.2426	A	3.8

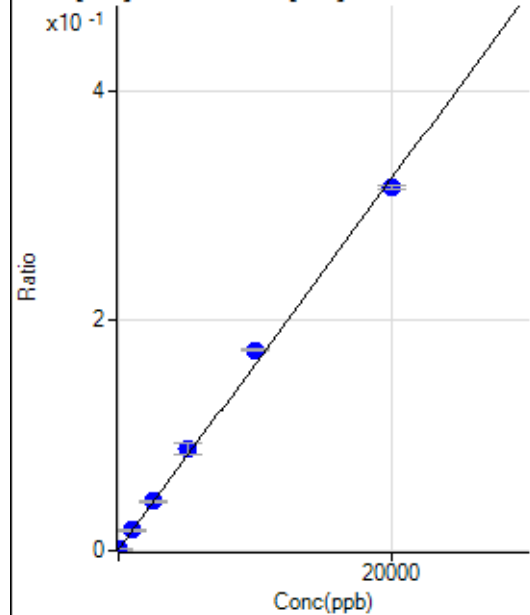
$$y = 8.4847\text{E-}004 * x + 0.0743$$

$$R = 0.9980$$

$$DL = 3.957$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-15.275	183.34	0.0007	P	16.2
2	☐	0.000	15.275	308.35	0.0012	P	24.0
3	☐	1000.000	1028.446	4436.91	0.0176	P	2.5
4	☐	2500.000	2596.883	10556.92	0.0428	P	1.8
5	☐	5000.000	5453.455	20392.73	0.0889	P	10.6
6	☐	10000.000	10741.963	41048.15	0.1741	P	0.9
7	☐	20000.000	19502.122	78720.38	0.3153	P	1.1
8	☐			261.12	0.0011	P	23.4

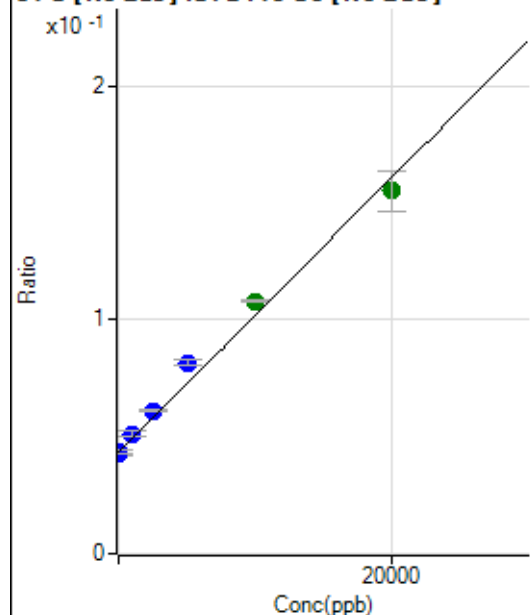
$$y = 1.6119\text{E-}005 * x + 9.8330\text{E-}004$$

$$R = 0.9986$$

$$DL = 38.54$$

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	-112.803	426364.34	0.0425	P	0.9
2	☐	0.000	112.803	434568.85	0.0438	P	4.1
3	☐	1000.000	1355.801	518601.43	0.0512	P	5.1
4	☐	2500.000	3019.886	624888.21	0.0610	P	1.0
5	☐	5000.000	6553.992	802129.71	0.0818	P	2.2
6	☐	10000.000	11022.732	1044468.88	0.1081	A	1.1
7	☐	20000.000	19017.360	1580542.41	0.1551	A	10.9
8	☐			355000.39	0.0373	P	1.1

$$y = 5.8868E-006 * x + 0.0432$$

R = 0.9943

DL = 553

Weight: <None>

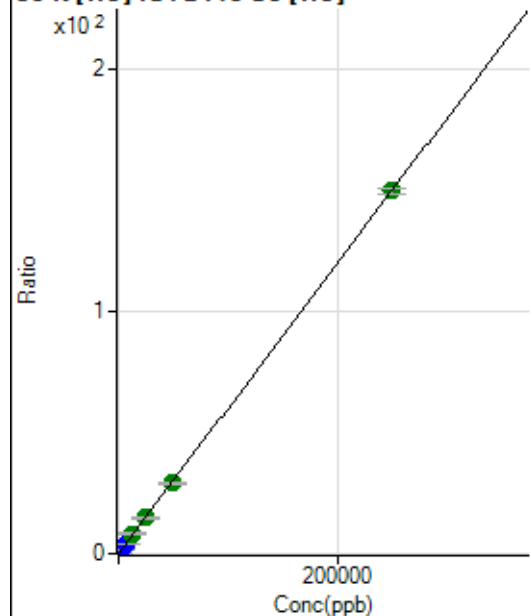
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			358075.57		P	1.1
2	☐			315301.37		P	1.3
3	☐			323632.74		P	0.8
4	☐			314300.70		P	2.3
5	☐			304934.86		P	1.5
6	☐			287592.82		P	1.8
7	☐			291189.28		P	1.3
8	☐			277621.38		P	1.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2116.89		P	2.2
2	☐			2008.54		P	11.6
3	☐			2097.43		P	7.6
4	☐			1916.85		P	5.1
5	☐			1841.84		P	7.0
6	☐			1614.02		P	6.2
7	☐			1764.05		P	7.2
8	☐			1786.28		P	10.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19694.55	0.0792	P	1.7
2	☐	500.000	447.859	87459.48	0.3473	P	2.1
3	☐	2500.000	2463.951	392703.03	1.5544	P	2.7
4	☐	6250.000	6169.397	929442.13	3.7728	P	1.3
5	☐	12500.000	13496.324	1872238.45	8.1594	A	10.2
6	☐	25000.000	24578.790	3487369.31	14.7944	A	1.3
7	☐	50000.000	48628.151	7287644.87	29.1926	A	2.2
8	☐	250000.00	250269.15	37214915.42	149.9141	A	1.6

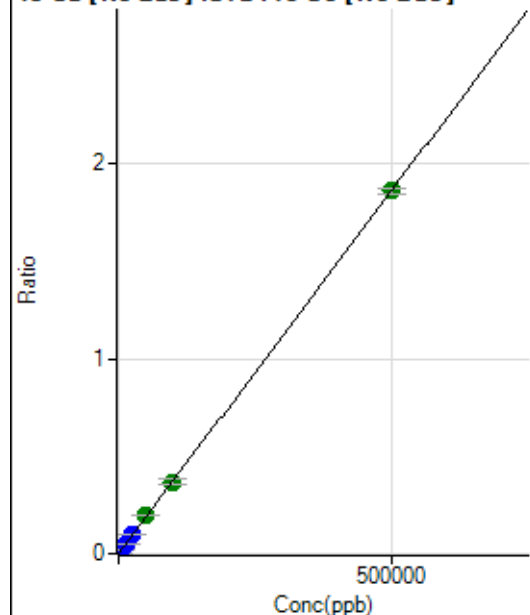
$$y = 5.9870E-004 * x + 0.0792$$

$$R = 1.0000$$

$$DL = 6.643$$

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	350.38	0.0000	P	10.0
2	☐	500.000	488.881	18406.96	0.0019	P	4.3
3	☐	5000.000	5030.568	190321.34	0.0188	P	6.6
4	☐	12500.000	12620.136	482519.14	0.0471	P	1.6
5	☐	25000.000	26065.846	953659.41	0.0972	P	1.0
6	☐	50000.000	52198.315	1880821.05	0.1946	A	1.1
7	☐	100000.00	99205.754	3771269.74	0.3698	A	9.8
8	☐	500000.00	499882.42	17713290.04	1.8633	A	1.3

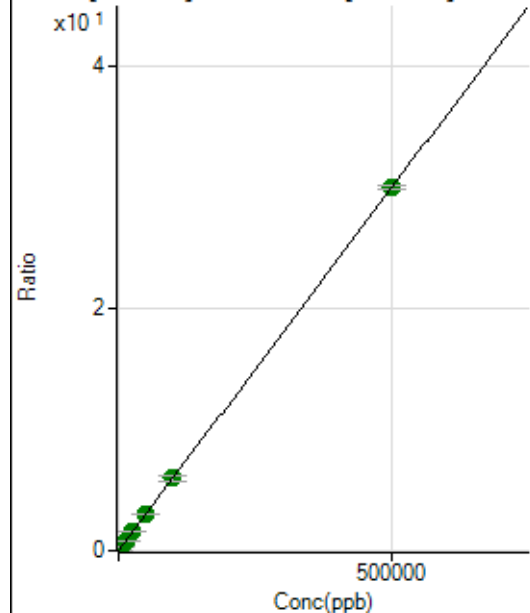
$$y = 3.7275\text{E-}006 * x + 3.4961\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.819$$

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	15730.25	0.0016	P	2.3
2	☐	500.000	487.823	305028.53	0.0308	P	4.8
3	☐	5000.000	5068.978	3088932.72	0.3051	A	8.9
4	☐	12500.000	12479.110	7676260.35	0.7489	A	0.9
5	☐	25000.000	25660.482	15093921.38	1.5382	A	0.9
6	☐	50000.000	50617.946	29308741.71	3.0328	A	1.9
7	☐	100000.00	99415.192	60753805.79	5.9549	A	8.7
8	☐	500000.00	500021.98	284663712.7	29.9448	A	0.9

$$y = 5.9884\text{E-}005 * x + 0.0016$$

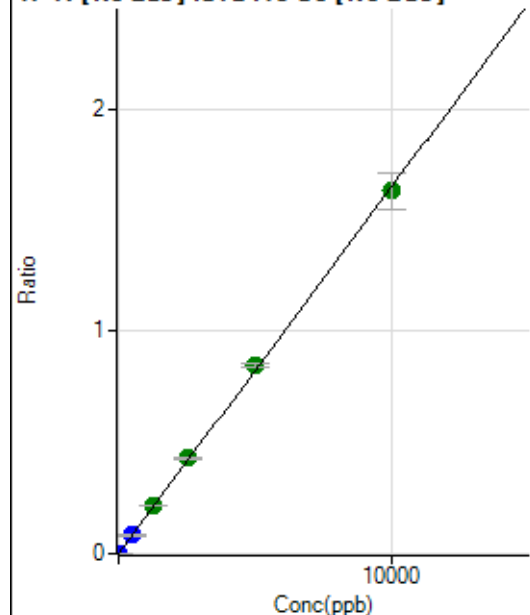
$$R = 1.0000$$

$$DL = 1.799$$

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	372.24	0.0000	P	15.0
2	☐	5.000	5.097	8683.40	0.0009	P	9.4
3	☐	500.000	517.957	864892.68	0.0854	P	7.7
4	☐	1250.000	1295.083	2188534.83	0.2135	A	0.8
5	☐	2500.000	2614.071	4227028.22	0.4309	A	2.3
6	☐	5000.000	5138.044	8183844.11	0.8468	A	1.1
7	☐	10000.000	9895.927	16628226.58	1.6310	A	9.8
8	☐			4178.56	0.0004	P	20.8

$$y = 1.6481E-004 * x + 3.7081E-005$$

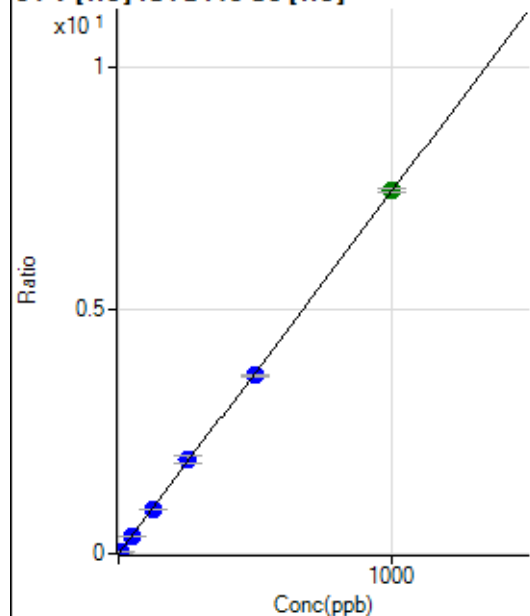
$$R = 0.9998$$

$$DL = 0.1011$$

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	11.11	0.0000	P	62.5
2	☐	5.000	4.632	8676.05	0.0345	P	2.1
3	☐	50.000	49.142	92245.09	0.3651	P	1.0
4	☐	125.000	121.588	222509.28	0.9032	P	0.8
5	☐	250.000	259.847	443031.44	1.9302	P	9.7
6	☐	500.000	491.990	861412.65	3.6545	P	1.2
7	☐	1000.000	1002.014	1857984.78	7.4429	A	1.0
8	☐			556.70	0.0022	P	47.8

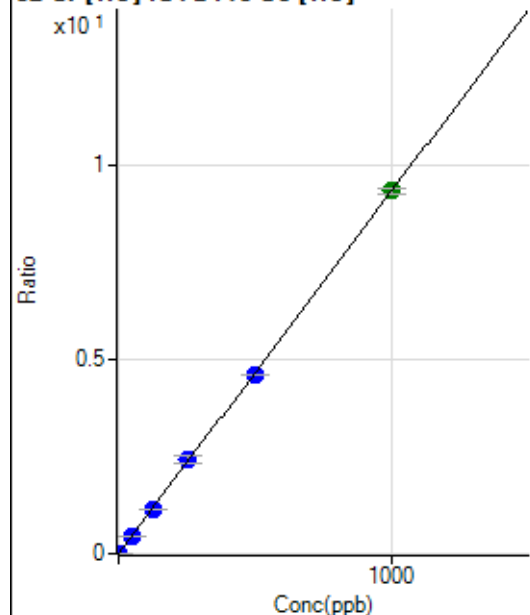
$$y = 0.0074 * x + 4.4711E-005$$

$$R = 0.9999$$

$$DL = 0.01129$$

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	876.70	0.0035	P	4.1
2	☐	2.000	1.828	5173.20	0.0205	P	0.4
3	☐	50.000	49.111	116406.70	0.4607	P	2.0
4	☐	125.000	123.083	283179.62	1.1494	P	0.6
5	☐	250.000	259.746	556061.95	2.4217	P	9.0
6	☐	500.000	493.208	1083151.67	4.5951	P	0.5
7	☐	1000.000	1001.244	2327822.12	9.3247	A	1.7
8	☐			26868.66	0.1082	P	1.0

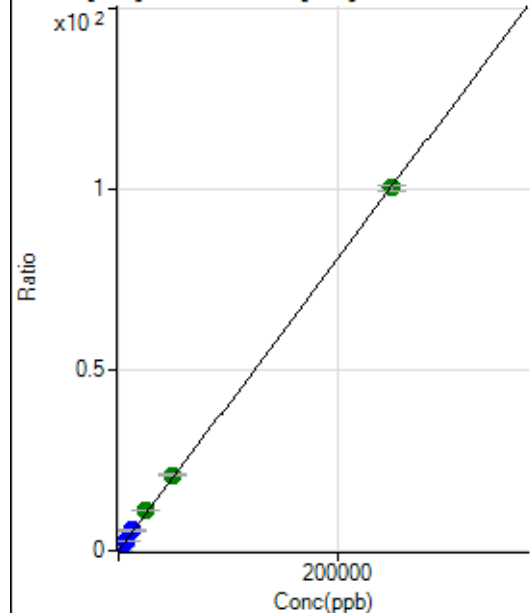
$$y = 0.0093 * x + 0.0035$$

$$R = 0.9999$$

$$DL = 0.04601$$

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	677.81	0.0027	P	2.4
2	☐	50.000	51.333	5893.93	0.0234	P	4.2
3	☐	2500.000	2644.416	270078.16	1.0689	P	1.1
4	☐	6250.000	6597.011	655895.31	2.6624	P	1.8
5	☐	12500.000	13902.311	1287841.95	5.6077	P	8.6
6	☐	25000.000	27266.332	2592097.48	10.9956	A	1.2
7	☐	50000.000	52029.198	5237313.60	20.9792	A	2.0
8	☐	250000.00	249287.29	24946959.82	100.5071	A	1.4

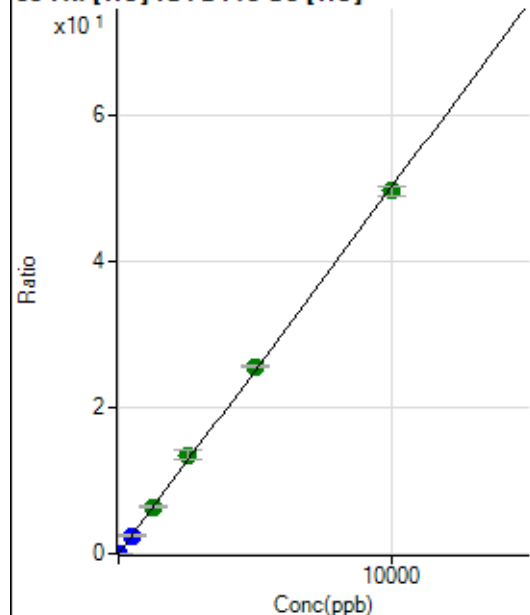
$$y = 4.0317E-004 * x + 0.0027$$

$$R = 0.9999$$

$$DL = 0.4952$$

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	36.67	0.0001	P	24.1
2	☐	1.000	0.941	1226.73	0.0049	P	5.0
3	☐	500.000	496.010	629910.30	2.4931	P	1.5
4	☐	1250.000	1274.072	1577275.36	6.4035	A	3.7
5	☐	2500.000	2696.951	3109917.25	13.5548	A	10.5
6	☐	5000.000	5106.802	6050277.07	25.6666	A	0.9
7	☐	10000.000	9894.552	12414923.01	49.7295	A	2.6
8	☐			10363.28	0.0417	P	18.9

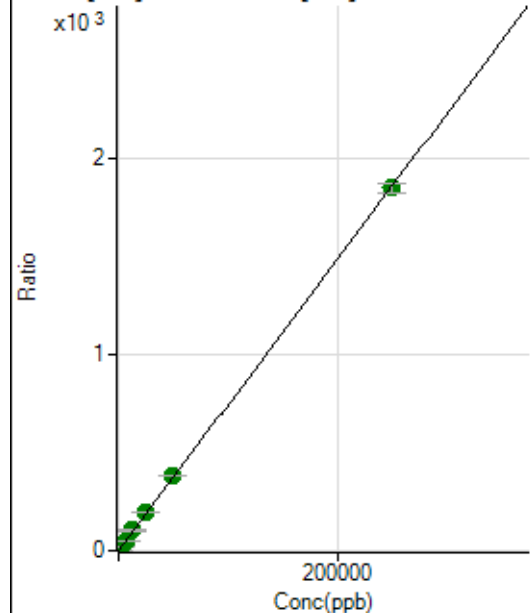
$$y = 0.0050 * x + 1.4745E-004$$

$$R = 0.9997$$

$$DL = 0.02119$$

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	4786.08	0.0192	P	3.0
2	☐	50.000	48.667	95852.59	0.3808	P	2.5
3	☐	2500.000	2634.264	4949189.87	19.5880	A	3.1
4	☐	6250.000	6603.500	12089222.84	49.0736	A	2.3
5	☐	12500.000	14017.145	23896461.41	104.1462	A	10.4
6	☐	25000.000	26772.131	46882902.90	198.8972	A	2.0
7	☐	50000.000	51734.294	95943548.44	384.3298	A	1.4
8	☐	250000.00	249389.89	459875143.6	1,852.623	A	2.3

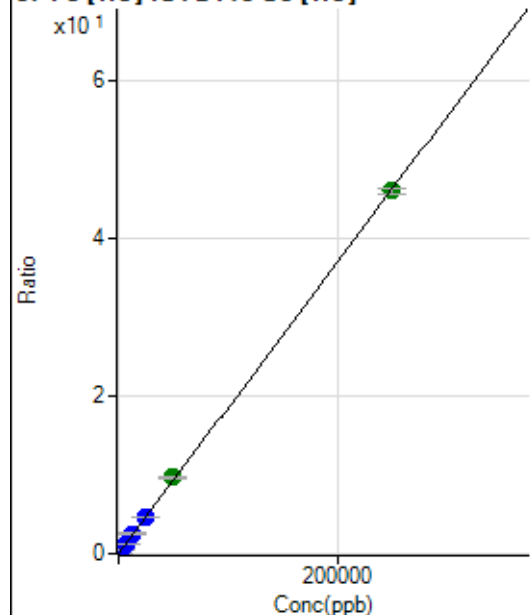
$$y = 0.0074 * x + 0.0192$$

$$R = 0.9999$$

$$DL = 0.2303$$

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	175.93	0.0007	P	21.4
2	☐	50.000	48.600	2431.73	0.0097	P	4.6
3	☐	2500.000	2563.115	119531.34	0.4731	P	1.4
4	☐	6250.000	6431.108	292177.30	1.1859	P	0.4
5	☐	12500.000	13698.270	579479.97	2.5252	P	10.2
6	☐	25000.000	25563.830	1110730.22	4.7120	P	1.2
7	☐	50000.000	52510.728	2415943.75	9.6782	A	1.5
8	☐	250000.00	249376.39	11407225.83	45.9597	A	1.9

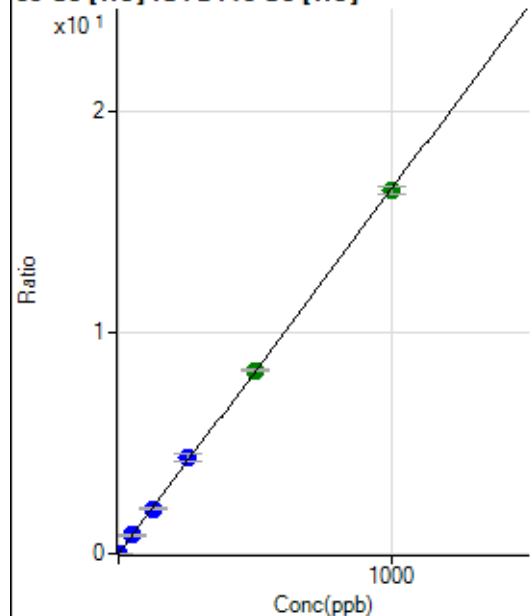
$$y = 1.8430\text{E-}004 * x + 7.0741\text{E-}004$$

$$R = 0.9999$$

$$DL = 2.468$$

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	83.33	0.0003	P	24.3
2	☐	1.000	0.947	4010.61	0.0159	P	3.7
3	☐	50.000	50.362	209788.47	0.8303	P	1.2
4	☐	125.000	123.259	500489.61	2.0316	P	1.2
5	☐	250.000	264.057	999702.16	4.3519	P	8.2
6	☐	500.000	503.540	1956060.89	8.2984	A	1.4
7	☐	1000.000	994.915	4093162.44	16.3960	A	2.2
8	☐			6636.08	0.0267	P	6.4

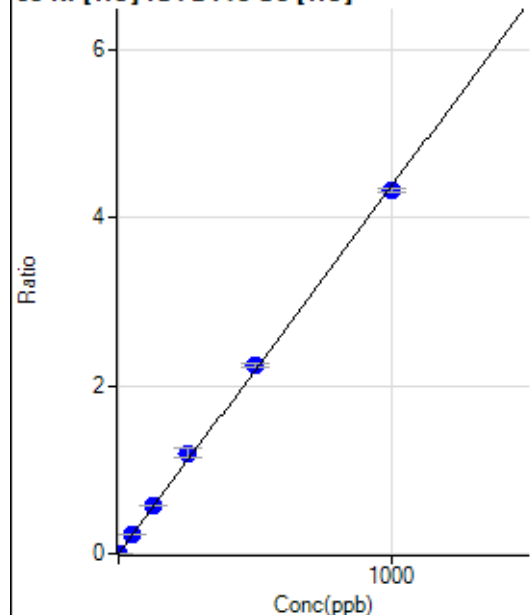
$$y = 0.0165 * x + 3.3508\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.01482$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	37.78	0.0002	P	20.4
2	☐	1.000	0.986	1123.39	0.0045	P	8.9
3	☐	50.000	51.607	57123.43	0.2261	P	0.4
4	☐	125.000	130.534	140817.24	0.5716	P	0.4
5	☐	250.000	272.895	274211.24	1.1948	P	9.8
6	☐	500.000	511.720	528021.82	2.2402	P	1.5
7	☐	1000.000	987.644	1079302.45	4.3236	P	1.0
8	☐			8524.85	0.0343	P	0.7

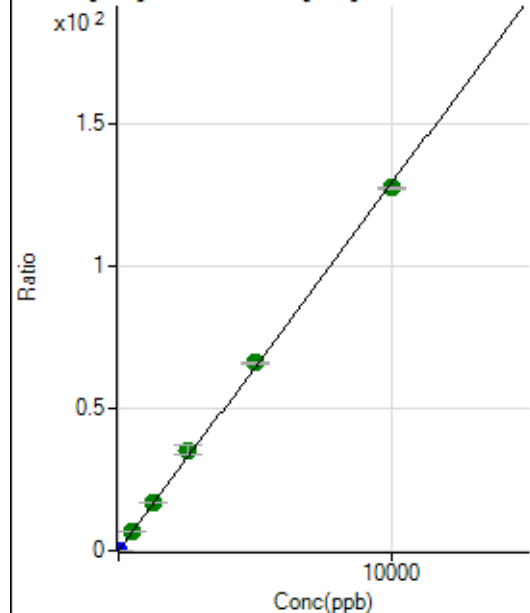
$$y = 0.0044 * x + 1.5191E-004$$

$$R = 0.9996$$

$$DL = 0.02121$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	924.49	0.0037	P	11.1
2	☐	2.000	1.887	7048.49	0.0280	P	4.9
3	☐	500.000	528.650	1721132.51	6.8122	A	2.3
4	☐	1250.000	1300.755	4127810.32	16.7562	A	1.9
5	☐	2500.000	2741.185	8108200.50	35.3076	A	8.8
6	☐	5000.000	5108.625	15508589.77	65.7980	A	1.6
7	☐	10000.000	9877.614	31757523.69	127.2181	A	0.6
8	☐			20182.42	0.0812	P	17.5

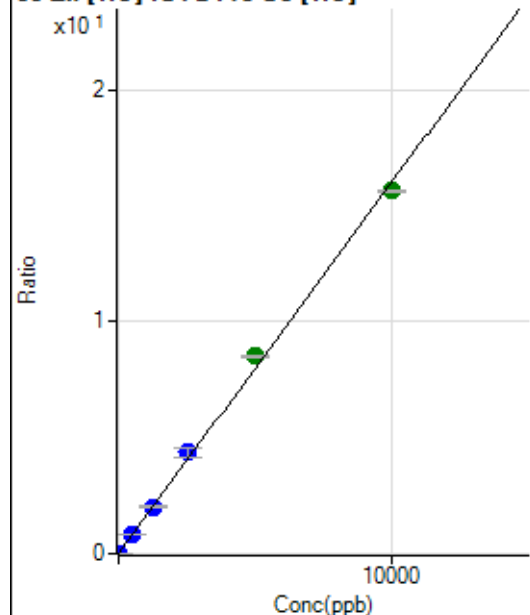
$$y = 0.0129 * x + 0.0037$$

$$R = 0.9996$$

$$DL = 0.0963$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	920.04	0.0037	P	8.0
2	☐	2.000	2.277	1846.81	0.0073	P	4.1
3	☐	500.000	529.940	214863.98	0.8504	P	1.5
4	☐	1250.000	1267.231	499671.07	2.0283	P	1.6
5	☐	2500.000	2731.669	1002472.60	4.3680	P	9.9
6	☐	5000.000	5321.427	2004902.49	8.5056	A	0.7
7	☐	10000.000	9777.718	3900394.42	15.6253	A	0.7
8	☐			6517.14	0.0262	P	6.9

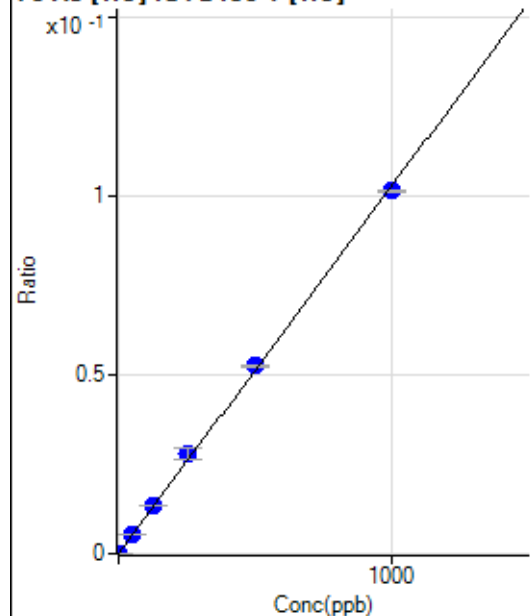
$$y = 0.0016 * x + 0.0037$$

$$R = 0.9989$$

$$DL = 0.5543$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.00	0.0000	P	37.2
2	☐	1.000	1.105	249.36	0.0001	P	6.2
3	☐	50.000	52.681	11430.11	0.0054	P	0.6
4	☐	125.000	130.270	27295.36	0.0134	P	1.5
5	☐	250.000	272.722	54429.06	0.0280	P	11.7
6	☐	500.000	511.592	107474.48	0.0525	P	1.4
7	☐	1000.000	987.730	216204.04	0.1014	P	0.7
8	☐			103.68	0.0000	P	45.1

$$y = 1.0270E-004 * x + 3.7744E-006$$

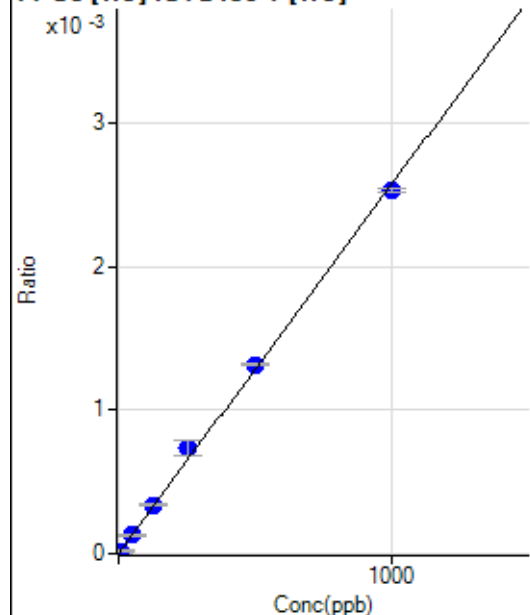
$$R = 0.9996$$

$$DL = 0.04099$$

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	1.11	0.0000	P	173.2
2	☐	5.000	7.516	42.22	0.0000	P	54.2
3	☐	50.000	51.069	277.78	0.0001	P	7.2
4	☐	125.000	132.162	693.36	0.0003	P	5.8
5	☐	250.000	287.161	1431.20	0.0007	P	13.8
6	☐	500.000	513.038	2694.73	0.0013	P	1.6
7	☐	1000.000	983.230	5379.98	0.0025	P	1.2
8	☐			3.33	0.0000	P	99.5

$$y = 2.5669\text{E-}006 * x + 5.2440\text{E-}007$$

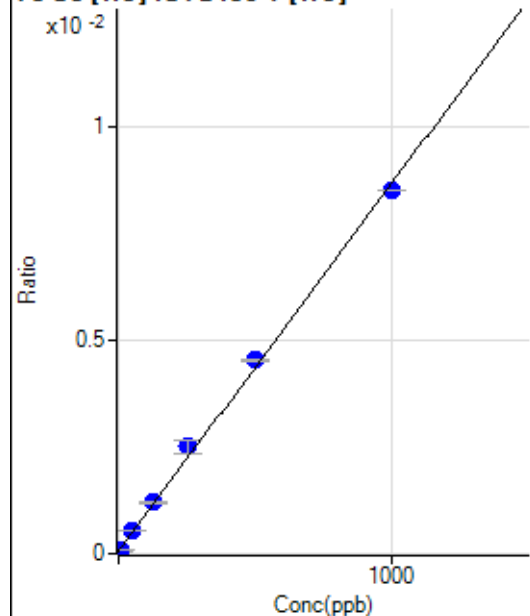
$$R = 0.9991$$

$$DL = 1.062$$

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	130.01	0.0001	P	5.3
2	☐	5.000	4.202	207.35	0.0001	P	7.5
3	☐	50.000	54.161	1113.83	0.0005	P	0.2
4	☐	125.000	131.925	2440.80	0.0012	P	4.3
5	☐	250.000	283.599	4861.01	0.0025	P	12.1
6	☐	500.000	520.145	9284.00	0.0045	P	1.5
7	☐	1000.000	980.458	18119.12	0.0085	P	0.1
8	☐			112.68	0.0001	P	11.4

$$y = 8.6075\text{E-}006 * x + 6.1379\text{E-}005$$

$$R = 0.9990$$

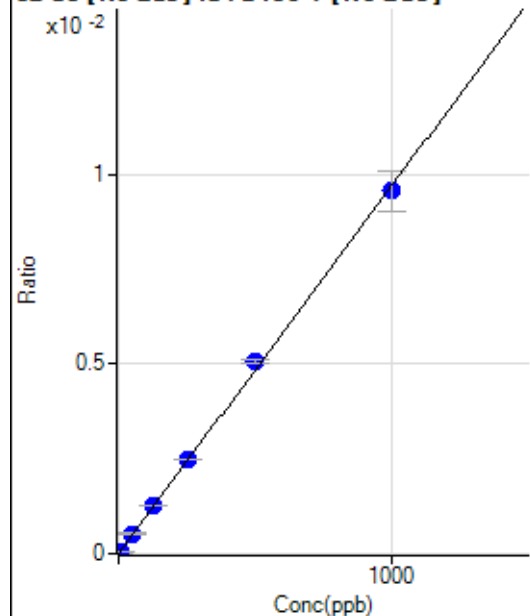
$$DL = 1.132$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			60077.68		P	3.7
2	☐			60807.81		P	8.0
3	☐			60327.86		P	0.6
4	☐			55189.18		P	4.9
5	☐			54517.20		P	1.1
6	☐			57331.97		P	2.2
7	☐			55463.14		P	2.5
8	☐			57043.45		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-21.69	0.0000	P	-1389.
2	☐	5.000	4.900	1139.46	0.0000	P	21.5
3	☐	50.000	52.709	12251.49	0.0005	P	8.7
4	☐	125.000	129.267	30867.72	0.0013	P	0.9
5	☐	250.000	255.215	60146.69	0.0025	P	0.1
6	☐	500.000	521.938	119664.68	0.0051	P	1.5
7	☐	1000.000	987.059	232865.12	0.0096	P	11.0
8	☐			55.45	0.0000	P	557.1

$$y = 9.6976E-006 * x - 8.6443E-007$$

$$R = 0.9996$$

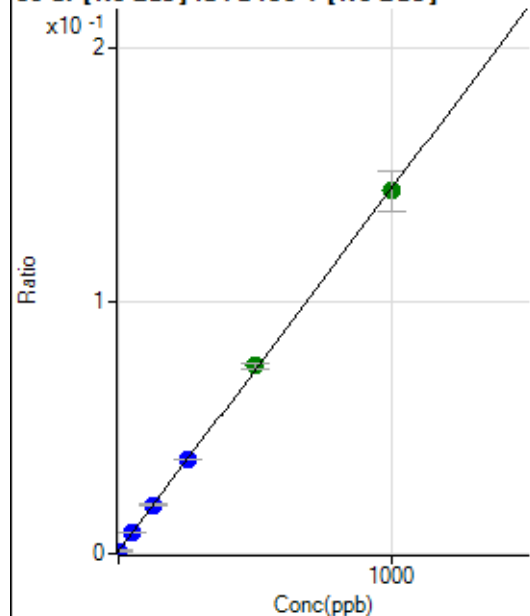
$$DL = 3.717$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			15243.44		P	2.8
2	☐			15251.78		P	1.3
3	☐			15102.89		P	1.2
4	☐			14851.41		P	1.6
5	☐			14782.17		P	1.1
6	☐			13976.88		P	2.1
7	☐			14361.80		P	0.0
8	☐			14572.82		P	0.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24513.62	0.0010	P	0.3
2	☐	1.000	0.935	27602.88	0.0011	P	2.8
3	☐	50.000	50.971	199984.88	0.0083	P	4.9
4	☐	125.000	127.249	474919.40	0.0193	P	2.8
5	☐	250.000	253.086	908015.16	0.0374	P	0.3
6	☐	500.000	511.193	1759685.33	0.0744	A	2.6
7	☐	1000.000	993.302	3494961.10	0.1437	A	11.5
8	☐			47400.29	0.0020	P	3.8

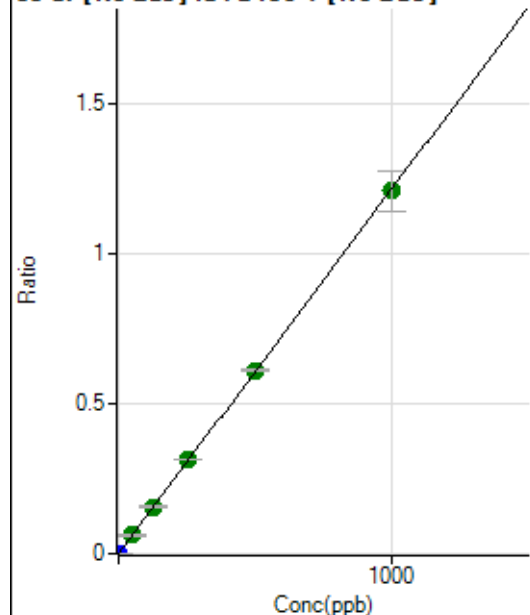
$$y = 1.4364E-004 * x + 9.9638E-004$$

$$R = 0.9999$$

$$DL = 0.06176$$

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	225.01	0.0000	P	23.1
2	☐	1.000	1.003	29991.22	0.0012	P	1.4
3	☐	50.000	51.563	1506193.75	0.0627	A	6.4
4	☐	125.000	129.185	3869539.54	0.1570	A	0.8
5	☐	250.000	258.112	7627278.73	0.3137	A	1.2
6	☐	500.000	503.480	14472020.11	0.6120	A	0.9
7	☐	1000.000	995.631	29436329.13	1.2102	A	11.5
8	☐			204111.02	0.0088	P	2.5

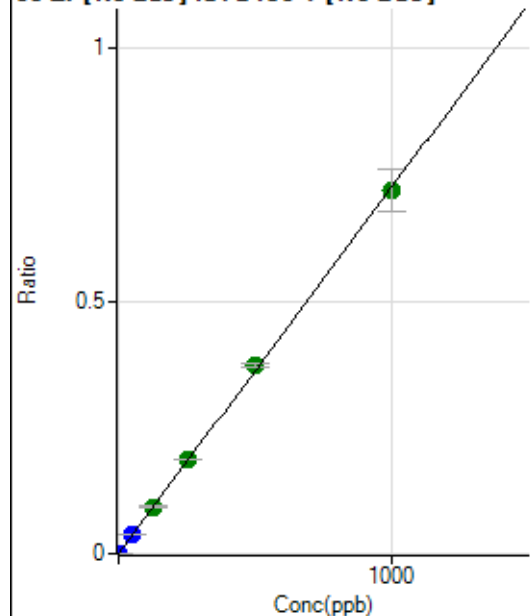
$$y = 0.0012 * x + 9.1239E-006$$

$$R = 1.0000$$

$$DL = 0.005193$$

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	1238.98	0.0001	P	8.5
2	☐	1.000	0.960	18240.18	0.0007	P	3.7
3	☐	50.000	51.661	901132.25	0.0375	P	6.6
4	☐	125.000	128.400	2295111.05	0.0931	A	0.8
5	☐	250.000	257.979	4548194.68	0.1871	A	0.6
6	☐	500.000	513.534	8804794.81	0.3724	A	1.7
7	☐	1000.000	990.730	17471840.49	0.7183	A	11.5
8	☐			11694.13	0.0005	P	9.4

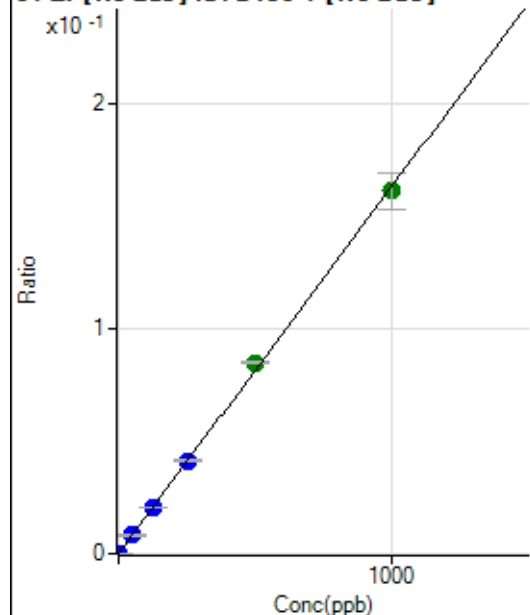
$$y = 7.2502E-004 * x + 5.0354E-005$$

$$R = 0.9998$$

$$DL = 0.0178$$

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	225.01	0.0000	P	4.6
2	☐	1.000	0.951	4011.82	0.0002	P	7.2
3	☐	50.000	50.860	199747.10	0.0083	P	5.8
4	☐	125.000	125.454	504829.18	0.0205	P	1.3
5	☐	250.000	253.256	1005209.66	0.0414	P	1.0
6	☐	500.000	520.252	2008447.75	0.0849	A	0.7
7	☐	1000.000	988.960	3929696.66	0.1614	A	10.4
8	☐			2555.86	0.0001	P	18.2

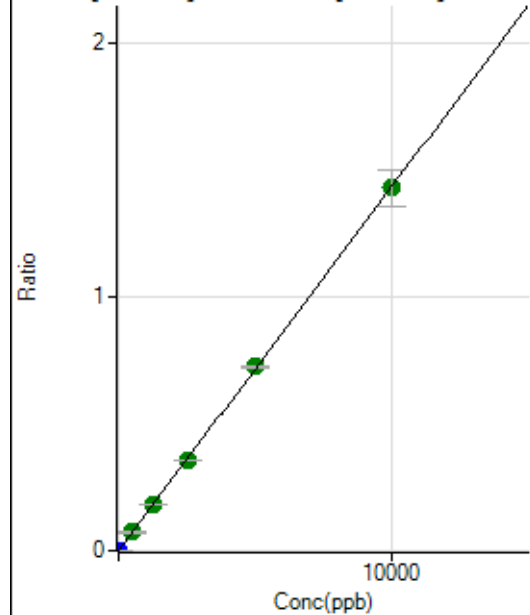
$$y = 1.6324\text{E-}004 * x + 9.1374\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.00766$$

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	388.90	0.0000	P	1.9
2	☐	5.000	5.945	21166.69	0.0009	P	4.5
3	☐	500.000	509.894	1754595.42	0.0730	A	7.0
4	☐	1250.000	1258.413	4440976.23	0.1802	A	1.6
5	☐	2500.000	2482.608	8643061.05	0.3555	A	1.5
6	☐	5000.000	5051.557	17105886.32	0.7234	A	1.6
7	☐	10000.000	9977.023	34783342.44	1.4288	A	10.2
8	☐			17606.37	0.0008	P	10.1

$$y = 1.4321\text{E-}004 * x + 1.5812\text{E-}005$$

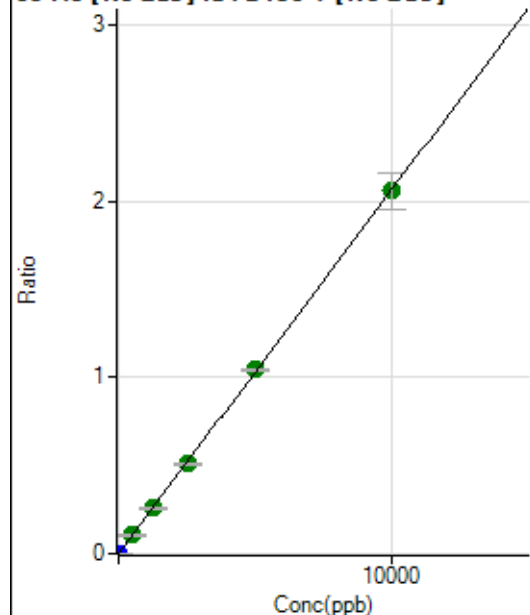
$$R = 1.0000$$

$$DL = 0.006199$$

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	58.34	0.0000	P	13.2
2	☐	5.000	5.070	25624.28	0.0010	P	3.9
3	☐	500.000	505.015	2504721.00	0.1043	A	6.9
4	☐	1250.000	1258.900	6404099.45	0.2599	A	2.8
5	☐	2500.000	2469.417	12392507.83	0.5098	A	1.8
6	☐	5000.000	5057.897	24689516.87	1.0442	A	1.7
7	☐	10000.000	9977.334	50146420.22	2.0597	A	10.2
8	☐			21041.97	0.0009	P	14.2

$$y = 2.0644\text{E-}004 * x + 2.3690\text{E-}006$$

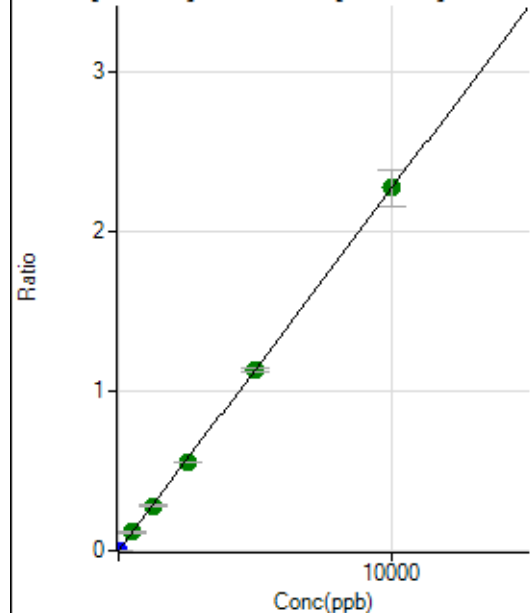
$$R = 1.0000$$

$$DL = 0.004561$$

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	469.46	0.0000	P	12.2
2	☐	5.000	4.970	27964.94	0.0011	P	2.1
3	☐	500.000	506.036	2756520.96	0.1147	A	5.9
4	☐	1250.000	1243.230	6942330.54	0.2818	A	3.0
5	☐	2500.000	2453.801	13519901.17	0.5561	A	0.3
6	☐	5000.000	4991.692	26749121.43	1.1313	A	1.9
7	☐	10000.000	10016.248	55266193.60	2.2700	A	10.1
8	☐			48261.33	0.0021	P	7.2

$$y = 2.2663\text{E-}004 * x + 1.9040\text{E-}005$$

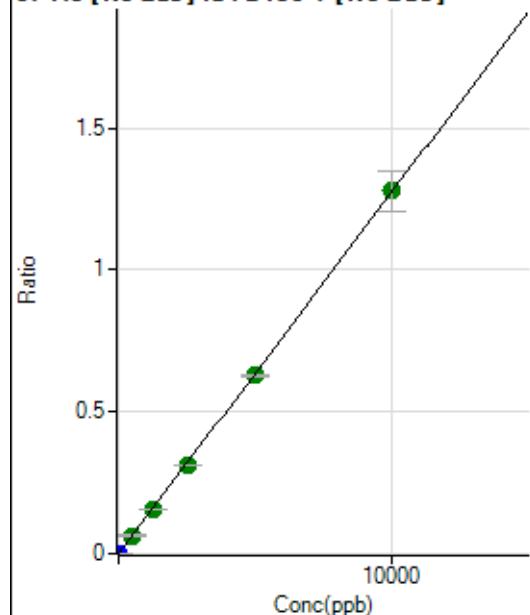
$$R = 1.0000$$

$$DL = 0.03082$$

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	33.33	0.0000	P	43.3
2	☐	5.000	4.928	15353.29	0.0006	P	2.4
3	☐	500.000	496.441	1518964.54	0.0632	A	5.3
4	☐	1250.000	1238.429	3883975.61	0.1576	A	2.0
5	☐	2500.000	2461.029	7615453.81	0.3133	A	0.6
6	☐	5000.000	4929.422	14837678.28	0.6275	A	0.6
7	☐	10000.000	10046.656	31105059.38	1.2788	A	11.4
8	☐			12942.65	0.0006	P	14.1

$$y = 1.2729\text{E-}004 * x + 1.3554\text{E-}006$$

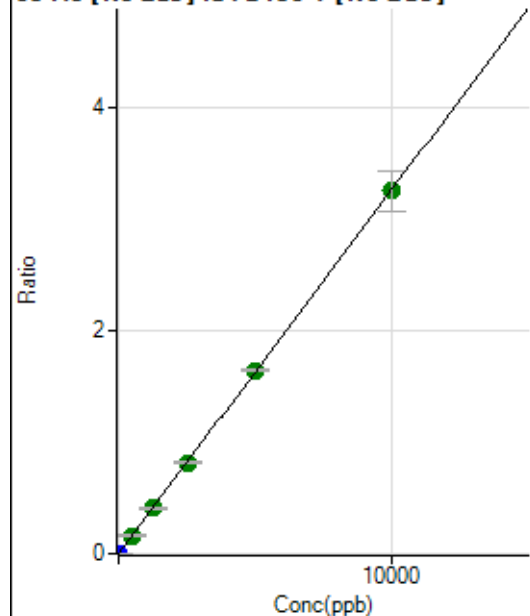
$$R = 1.0000$$

$$DL = 0.01383$$

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	122.23	0.0000	P	11.8
2	☐	5.000	4.920	39354.04	0.0016	P	2.6
3	☐	500.000	501.994	3939757.42	0.1640	A	6.6
4	☐	1250.000	1247.385	10039119.24	0.4074	A	1.4
5	☐	2500.000	2510.748	19936178.05	0.8201	A	1.9
6	☐	5000.000	5039.454	38924123.78	1.6461	A	0.7
7	☐	10000.000	9977.813	79289049.69	3.2591	A	11.1
8	☐			32904.99	0.0014	P	15.3

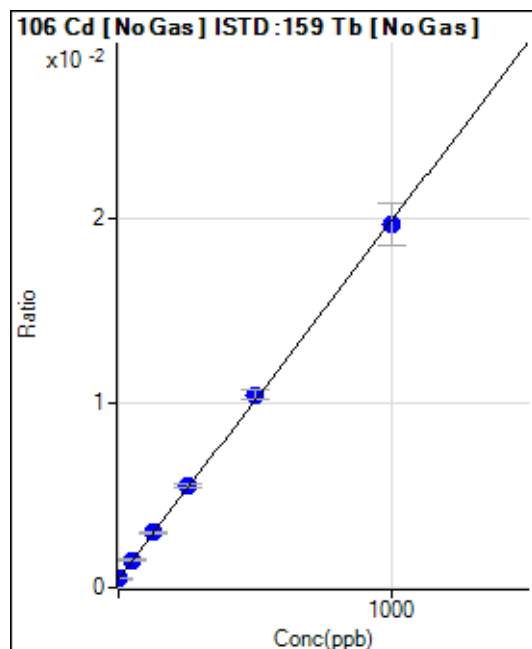
$$y = 3.2663\text{E-}004 * x + 4.9739\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.005403$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6601.76	0.0005	P	8.2
2	☐	1.000	1.045	6804.66	0.0005	P	1.8
3	☐	50.000	52.525	20655.03	0.0015	P	8.4
4	☐	125.000	129.349	43344.32	0.0030	P	2.3
5	☐	250.000	260.856	79885.66	0.0055	P	3.0
6	☐	500.000	515.262	145742.27	0.0105	P	4.2
7	☐	1000.000	988.985	290098.47	0.0197	P	11.5
8	☐			6312.74	0.0005	P	3.5

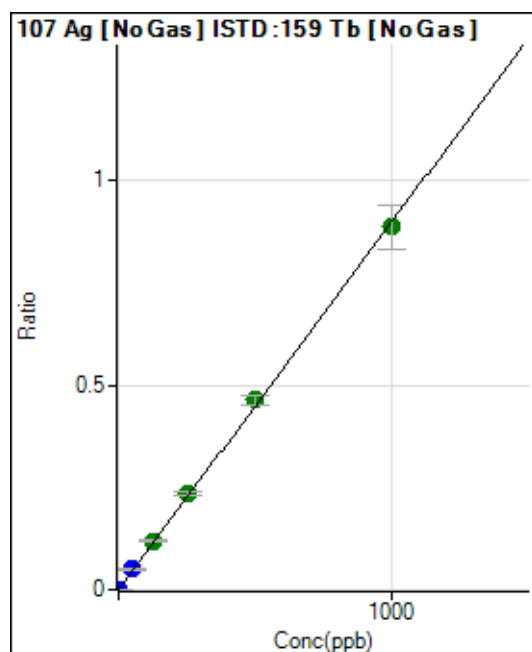
$$y = 1.9410\text{E-}005 * x + 4.7110\text{E-}004$$

$$R = 0.9998$$

$$DL = 5.961$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	144.45	0.0000	P	19.0
2	☐	1.000	1.081	13590.40	0.0010	P	2.0
3	☐	50.000	55.447	689647.90	0.0498	P	9.8
4	☐	125.000	132.936	1736078.62	0.1194	A	1.5
5	☐	250.000	263.401	3415021.99	0.2366	A	3.4
6	☐	500.000	515.881	6447354.14	0.4634	A	5.4
7	☐	1000.000	987.445	13072702.72	0.8870	A	12.5
8	☐			5515.20	0.0004	P	23.0

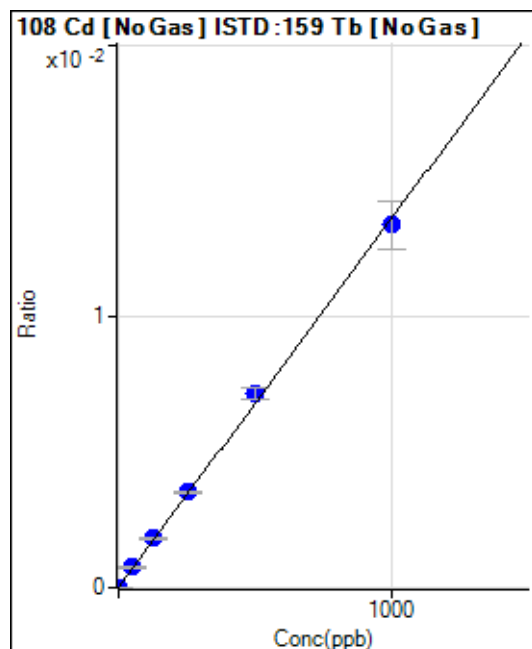
$$y = 8.9824\text{E-}004 * x + 1.0288\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.006544$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	72.4
2	☐	1.000	0.777	223.62	0.0000	P	22.1
3	☐	50.000	55.198	10499.96	0.0008	P	7.8
4	☐	125.000	133.157	26450.60	0.0018	P	1.8
5	☐	250.000	258.539	50921.88	0.0035	P	2.7
6	☐	500.000	526.949	99949.88	0.0072	P	5.5
7	☐	1000.000	983.112	197382.93	0.0134	P	13.1
8	☐			145.84	0.0000	P	13.0

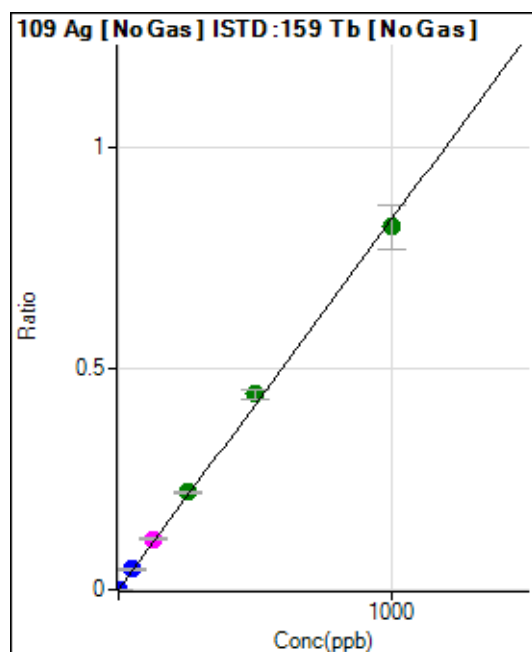
$$y = 1.3623\text{E-}005 * x + 5.5434\text{E-}006$$

$$R = 0.9994$$

$$DL = 0.8835$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	22.4
2	☐	1.000	1.072	12475.48	0.0009	P	1.5
3	☐	50.000	56.574	654856.30	0.0473	P	9.0
4	☐	125.000	136.394	1656515.53	0.1140	M	4.1
5	☐	250.000	263.889	3183809.38	0.2205	A	1.4
6	☐	500.000	528.879	6148920.06	0.4419	A	5.2
7	☐	1000.000	980.335	12078974.14	0.8191	A	11.9
8	☐			5479.04	0.0004	P	15.9

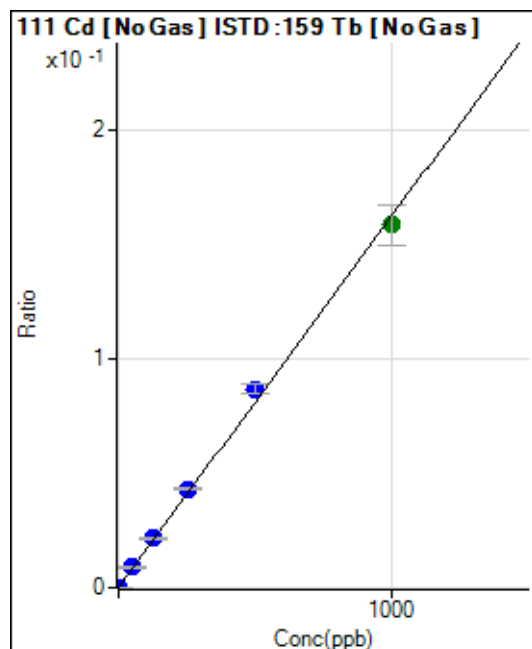
$$y = 8.3556\text{E-}004 * x + 5.5509\text{E-}006$$

$$R = 0.9992$$

$$DL = 0.004461$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	620.73	0.0000	P	17.0
2	☐	1.000	1.130	3148.95	0.0002	P	1.8
3	☐	50.000	55.524	125098.11	0.0090	P	10.1
4	☐	125.000	132.960	313688.02	0.0216	P	2.6
5	☐	250.000	265.718	621977.92	0.0431	P	2.0
6	☐	500.000	535.665	1207830.83	0.0868	P	5.1
7	☐	1000.000	976.966	2335048.27	0.1583	A	11.4
8	☐			1248.67	0.0001	P	13.7

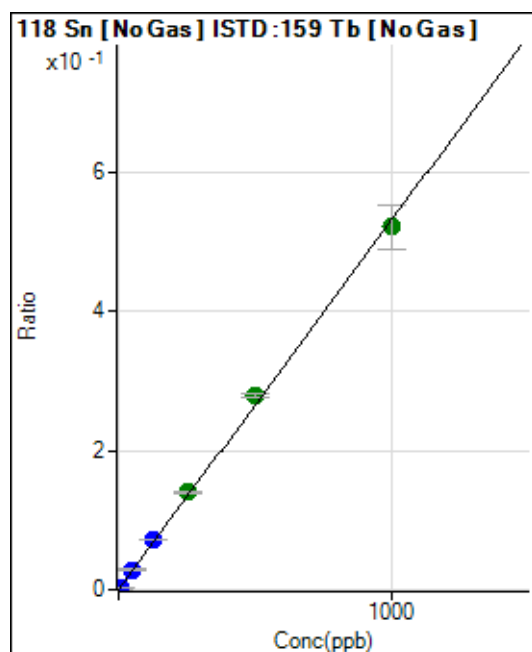
$$y = 1.6197\text{E-}004 * x + 4.4295\text{E-}005$$

$$R = 0.9989$$

$$DL = 0.1393$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1375.12	0.0001	P	6.9
2	☐	5.000	5.317	40441.37	0.0029	P	0.9
3	☐	50.000	54.207	399389.08	0.0289	P	11.0
4	☐	125.000	134.292	1037668.16	0.0714	P	1.5
5	☐	250.000	263.362	2020143.54	0.1399	A	0.6
6	☐	500.000	526.371	3890920.96	0.2795	A	2.5
7	☐	1000.000	982.101	7685740.62	0.5214	A	12.3
8	☐			7049.63	0.0005	P	18.6

$$y = 5.3078\text{E-}004 * x + 9.8128\text{E-}005$$

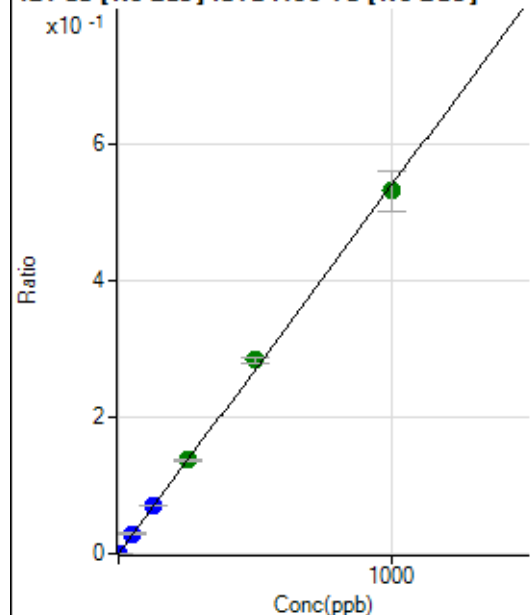
$$R = 0.9994$$

$$DL = 0.03843$$

Weight: <None>

Min Conc: 0

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



$$y = 5.4056E-004 * x + 5.3361E-006$$

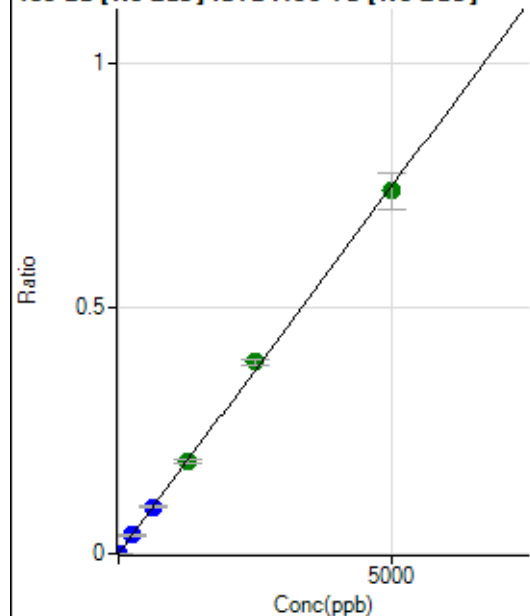
$$R = 0.9995$$

$$DL = 0.008368$$

Weight: <None>

Min Conc: 0

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



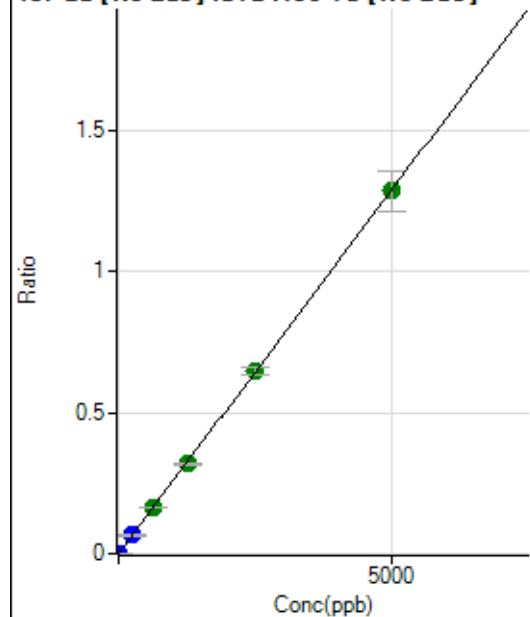
$$y = 1.4953E-004 * x + 1.5908E-006$$

$$R = 0.9996$$

$$DL = 0.01856$$

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	63.89	0.0000	P	28.7
2	☐	10.000	9.892	35363.94	0.0026	P	2.6
3	☐	250.000	260.518	929277.95	0.0671	P	10.3
4	☐	625.000	628.764	2356088.96	0.1620	A	0.3
5	☐	1250.000	1236.019	4598413.91	0.3185	A	2.7
6	☐	2500.000	2522.096	9045724.51	0.6500	A	4.4
7	☐	5000.000	4991.451	18975356.15	1.2864	A	11.5
8	☐			9848.52	0.0007	P	13.3

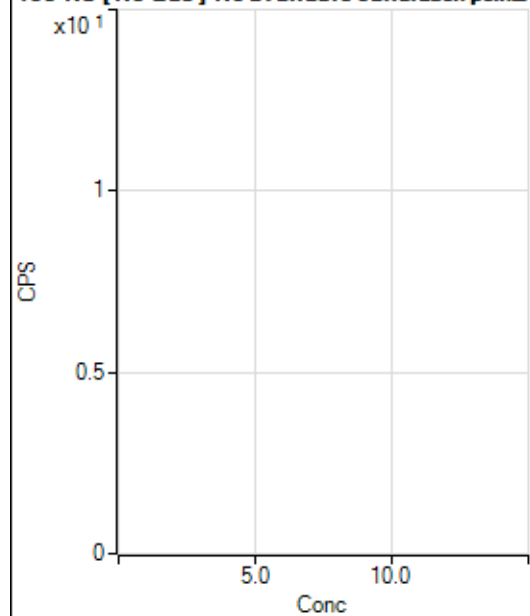
$$y = 2.5771E-004 * x + 4.5702E-006$$

$$R = 1.0000$$

$$DL = 0.01526$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	173.2
2	☐			6.67		P	173.2
3	☐			46.67		P	28.6
4	☐			82.23		P	9.4
5	☐			160.00		P	26.0
6	☐			295.57		P	14.3
7	☐			577.81		P	7.7
8	☐			60.00		P	11.1

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	☐			12.22		P	41.7
5	☐			4.44		P	114.6
6	☐			21.11		P	77.9
7	☐			32.22		P	48.9
8	☐			18.89		P	27.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			8.33		P	100.0
3	☐			66.67		P	25.0
4	☐			69.45		P	48.5
5	☐			147.23		P	36.4
6	☐			219.45		P	20.9
7	☐			486.13		P	13.9
8	☐			1672.39		P	9.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			1.11		P	173.2
3	☐			11.11		P	17.3
4	☐			20.00		P	44.1
5	☐			45.55		P	29.6
6	☐			87.78		P	4.4
7	☐			173.34		P	15.0
8	☐			520.02		P	8.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			83.34		P	55.7
2	☐			66.67		P	45.1
3	☐			113.89		P	18.4
4	☐			136.12		P	33.7
5	☐			188.90		P	9.2
6	☐			263.90		P	15.9
7	☐			444.46		P	12.5
8	☐			1591.81		P	5.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			100.00		P	12.0
2	☐			93.33		P	28.4
3	☐			122.22		P	19.2
4	☐			114.44		P	16.6
5	☐			108.89		P	17.9
6	☐			140.00		P	17.2
7	☐			220.00		P	15.2
8	☐			691.14		P	2.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			119.45		P	21.3
2	☐			119.45		P	26.4
3	☐			116.67		P	43.4
4	☐			94.45		P	13.5
5	☐			144.45		P	12.0
6	☐			119.45		P	28.2
7	☐			155.56		P	32.7
8	☐			316.68		P	13.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			40.00		P	33.3
2	☐			33.33		P	36.1
3	☐			34.44		P	68.7
4	☐			34.44		P	40.3
5	☐			34.44		P	24.3
6	☐			25.55		P	65.7
7	☐			61.11		P	25.8
8	☐			111.11		P	20.0

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			55.56		P	60.6
2	☐			30.56		P	31.5
3	☐			50.00		P	66.7
4	☐			44.44		P	21.7
5	☐			30.55		P	15.7
6	☐			61.11		P	7.9
7	☐			52.78		P	9.1
8	☐			152.78		P	49.2

172 Yb [He] No available calibration points

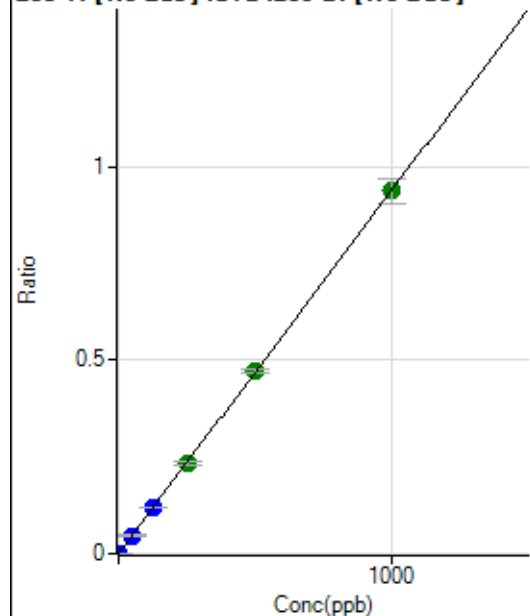
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.82		P	57.3
2	☐			22.22		P	25.0
3	☐			14.82		P	21.7
4	☐			11.11		P	50.0
5	☐			16.67		P	66.6
6	☐			29.63		P	47.2
7	☐			18.52		P	17.3
8	☐			64.82		P	40.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1714.05		P	6.3
2	☐			1975.22		P	9.7
3	☐			3364.42		P	6.1
4	☐			5618.04		P	6.3
5	☐			9445.33		P	4.4
6	☐			17462.08		P	2.6
7	☐			34156.20		P	1.9
8	☐			1958.53		P	4.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6612.91		P	2.1
2	☐			6488.75		P	2.5
3	☐			7072.41		P	6.5
4	☐			7832.11		P	3.0
5	☐			9036.59		P	4.6
6	☐			11933.43		P	2.5
7	☐			18680.26		P	1.8
8	☐			6485.05		P	5.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	483.36	0.0001	P	13.9
2	☐	1.000	0.939	7288.34	0.0009	P	3.9
3	☐	50.000	49.247	362421.83	0.0463	P	8.2
4	☐	125.000	127.014	959892.44	0.1193	P	3.1
5	☐	250.000	250.250	1866465.58	0.2350	A	3.8
6	☐	500.000	500.815	3681674.39	0.4703	A	2.0
7	☐	1000.000	999.316	7455542.62	0.9384	A	7.1
8	☐			2492.04	0.0004	P	19.8

$$y = 9.3895E-004 * x + 6.2529E-005$$

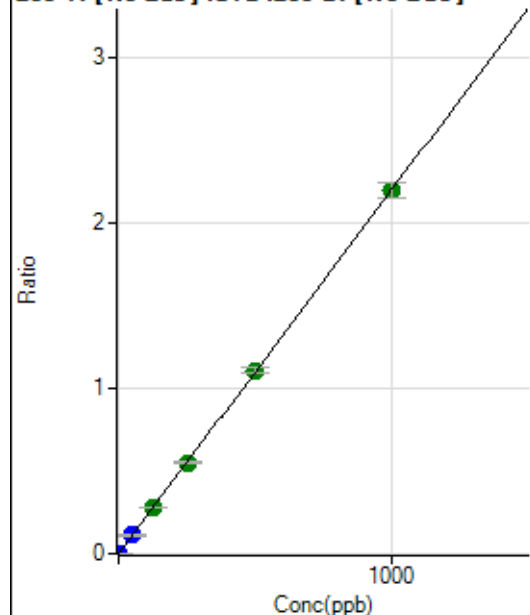
$$R = 1.0000$$

$$DL = 0.02786$$

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	1230.65	0.0002	P	5.8
2	☐	1.000	1.014	18449.81	0.0024	P	4.4
3	☐	50.000	51.239	883798.11	0.1129	P	7.7
4	☐	125.000	126.875	2247145.47	0.2793	A	1.8
5	☐	250.000	250.663	4380734.17	0.5516	A	1.6
6	☐	500.000	503.208	8666790.47	1.1073	A	3.4
7	☐	1000.000	997.934	17470696.40	2.1957	A	4.2
8	☐			6026.68	0.0009	P	17.6

$$y = 0.0022 * x + 1.5899E-004$$

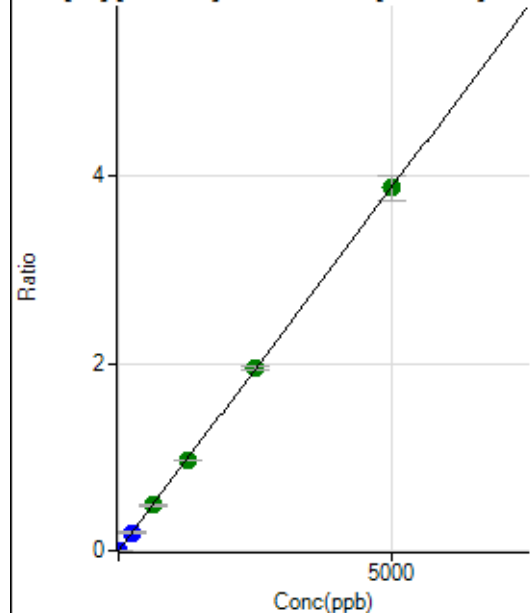
$$R = 1.0000$$

$$DL = 0.01268$$

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	994.50	0.0001	P	9.3
2	☐	1.000	0.965	6770.43	0.0009	P	3.7
3	☐	250.000	247.219	1503580.66	0.1920	P	6.7
4	☐	625.000	626.139	3909823.18	0.4860	A	2.6
5	☐	1250.000	1243.194	7662138.54	0.9648	A	1.7
6	☐	2500.000	2511.864	15260085.53	1.9492	A	2.5
7	☐	5000.000	4995.766	30800994.67	3.8767	A	6.9
8	☐			17438.36	0.0026	P	6.7

$$y = 7.7597E-004 * x + 1.2855E-004$$

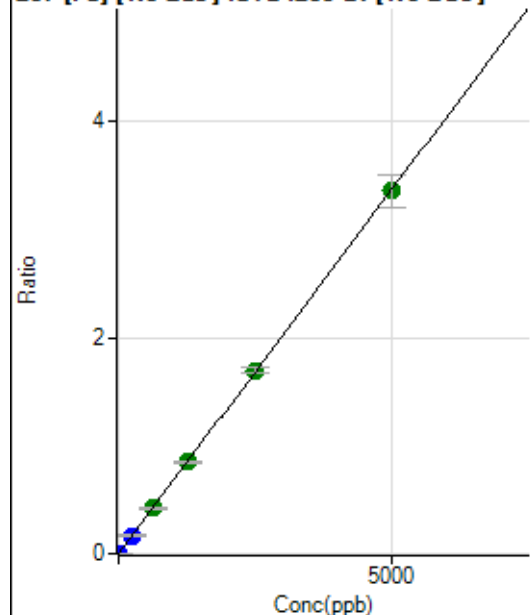
$$R = 1.0000$$

$$DL = 0.04618$$

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	864.86	0.0001	P	1.8
2	☐	1.000	0.961	5856.99	0.0008	P	3.3
3	☐	250.000	242.816	1281488.53	0.1637	P	7.9
4	☐	625.000	625.281	3389722.09	0.4214	A	3.2
5	☐	1250.000	1261.502	6750993.73	0.8500	A	2.1
6	☐	2500.000	2522.350	13309638.84	1.6995	A	2.6
7	☐	5000.000	4986.274	26662045.04	3.3595	A	9.0
8	☐			15491.14	0.0023	P	9.5

$$y = 6.7372\text{E-}004 * x + 1.1171\text{E-}004$$

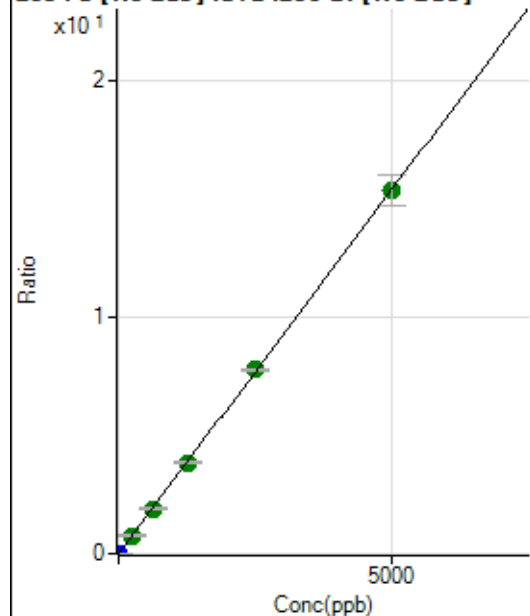
$$R = 1.0000$$

$$DL = 0.009197$$

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	3955.87	0.0005	P	6.3
2	☐	1.000	0.958	26698.27	0.0035	P	2.2
3	☐	250.000	246.660	5951360.61	0.7603	A	8.1
4	☐	625.000	620.523	15382219.82	1.9120	A	2.3
5	☐	1250.000	1249.857	30582626.50	3.8506	A	1.3
6	☐	2500.000	2526.325	60940342.69	7.7826	A	1.3
7	☐	5000.000	4987.600	121977741.1	15.3643	A	8.4
8	☐			70190.71	0.0105	P	8.3

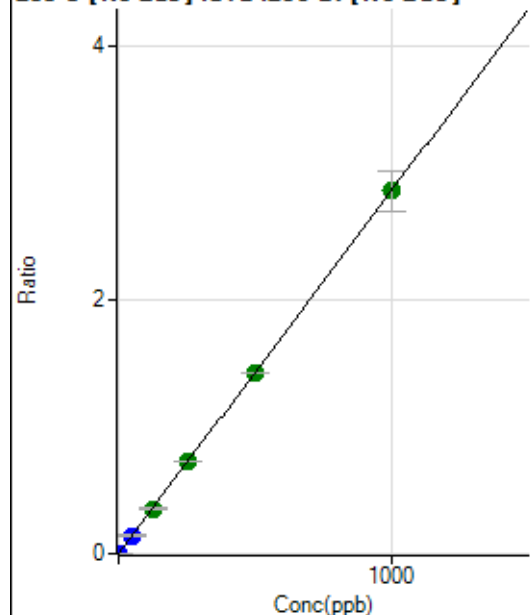
$$y = 0.0031 * x + 5.1109\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.03154$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	71.2
2	☐	1.000	0.951	20998.51	0.0027	P	1.3
3	☐	50.000	48.979	1095699.98	0.1399	P	7.3
4	☐	125.000	123.335	2835532.29	0.3523	A	1.9
5	☐	250.000	254.090	5765529.08	0.7259	A	0.2
6	☐	500.000	499.378	11170098.86	1.4266	A	0.4
7	☐	1000.000	999.548	22638139.05	2.8555	A	11.0
8	☐			4220.48	0.0006	P	36.0

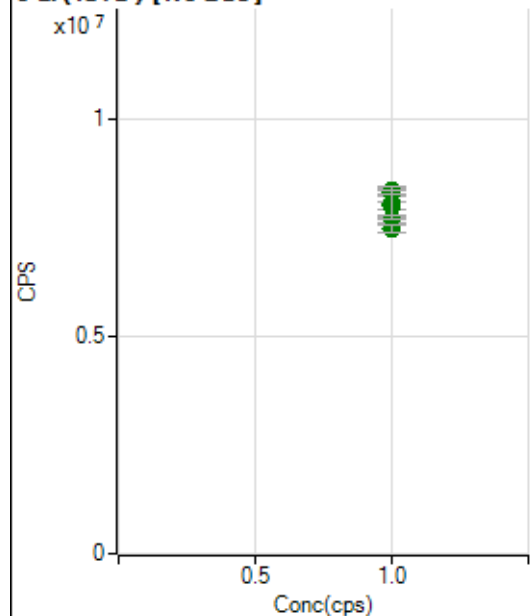
$$y = 0.0029 * x + 4.6734E-006$$

$$R = 1.0000$$

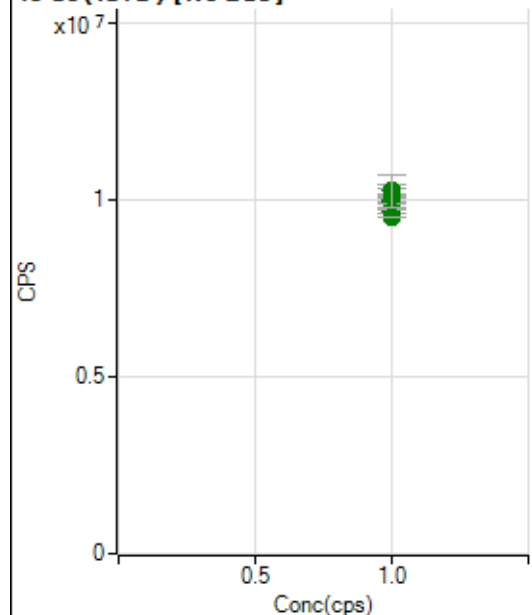
$$DL = 0.003496$$

Weight: <None>

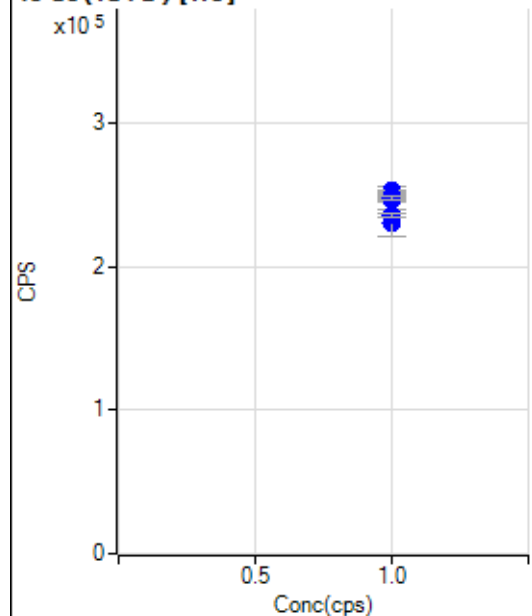
Min Conc: 0

6 Li (ISTD) [No Gas]

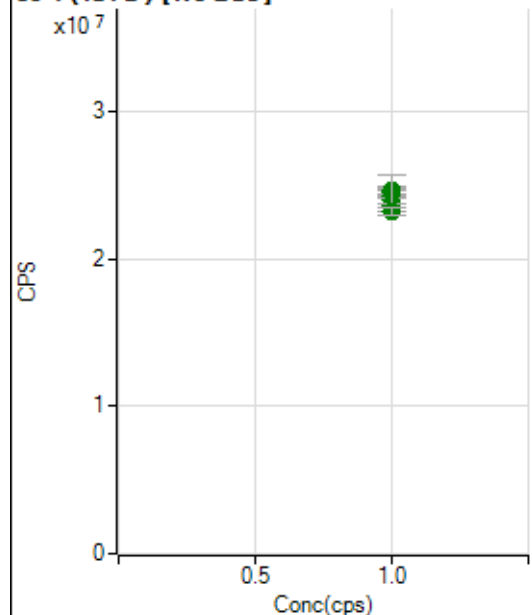
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8069877.32		A	3.4
2	☐	1.000		8007857.47		A	2.5
3	☐	1.000		7990252.69		A	6.1
4	☐	1.000		8345191.76		A	1.5
5	☐	1.000		8329819.93		A	1.2
6	☐	1.000		7680570.31		A	2.4
7	☐	1.000		8070903.23		A	9.1
8	☐	1.000		7463794.49		A	2.6

45 Sc (ISTD) [No Gas]

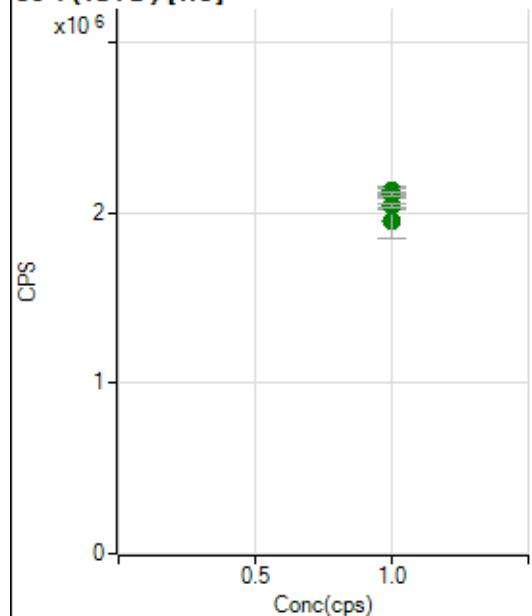
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10028699.09		A	1.1
2	☐	1.000		9922704.30		A	4.2
3	☐	1.000		10155610.27		A	5.6
4	☐	1.000		10251088.53		A	1.2
5	☐	1.000		9812265.27		A	1.3
6	☐	1.000		9664446.87		A	1.2
7	☐	1.000		10256884.78		A	9.2
8	☐	1.000		9506299.02		A	0.2

45 Sc (ISTD) [He]

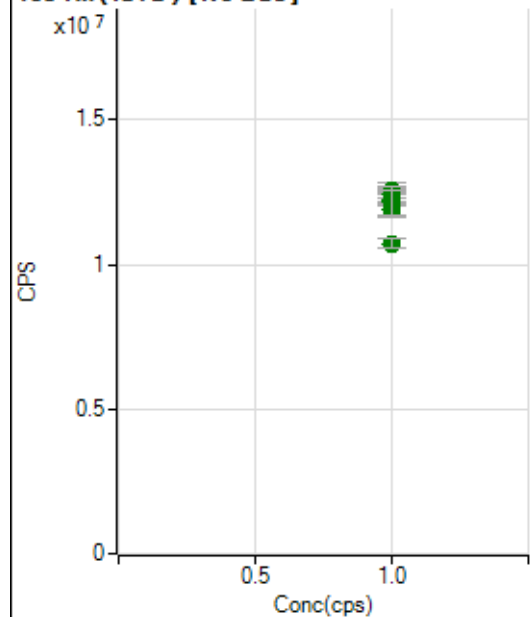
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		248680.24		P	0.3
2	☐	1.000		251874.01		P	3.6
3	☐	1.000		252687.46		P	0.9
4	☐	1.000		246375.24		P	1.1
5	☐	1.000		230740.67		P	8.2
6	☐	1.000		235722.79		P	0.9
7	☐	1.000		249626.25		P	0.5
8	☐	1.000		248214.82		P	1.1

89 Y (ISTD) [No Gas]

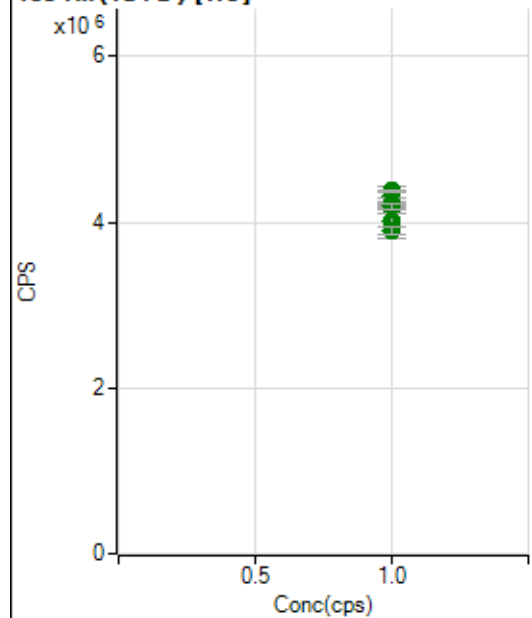
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		24603732.97		A	2.9
2	☐	1.000		24420645.19		A	1.9
3	☐	1.000		24078826.03		A	5.0
4	☐	1.000		24643079.63		A	1.7
5	☐	1.000		24310773.25		A	0.9
6	☐	1.000		23648029.37		A	1.2
7	☐	1.000		24516568.80		A	10.4
8	☐	1.000		23227896.04		A	2.6

89 Y (ISTD) [He]

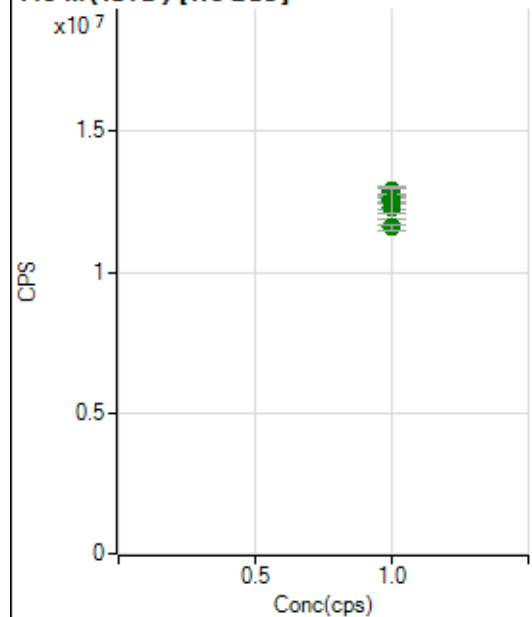
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2118126.41		A	0.4
2	☐	1.000		2128724.08		A	3.1
3	☐	1.000		2111258.32		A	0.8
4	☐	1.000		2039928.49		A	1.2
5	☐	1.000		1958841.33		A	10.4
6	☐	1.000		2045730.20		A	1.4
7	☐	1.000		2131495.61		A	1.6
8	☐	1.000		2111148.89		A	1.1

103 Rh (ISTD) [No Gas]

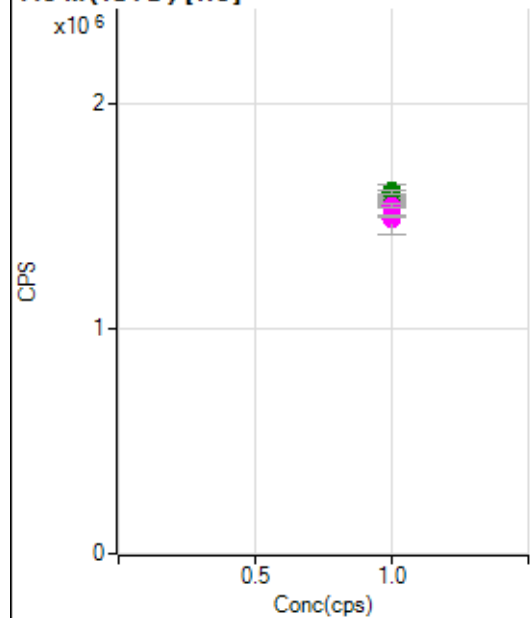
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12532229.79		A	1.8
2	☐	1.000		12534625.97		A	0.4
3	☐	1.000		12435069.46		A	5.9
4	☐	1.000		12540565.30		A	0.1
5	☐	1.000		12215297.84		A	0.8
6	☐	1.000		11875921.19		A	3.0
7	☐	1.000		12165080.05		A	8.3
8	☐	1.000		10724248.68		A	2.9

103 Rh (ISTD) [He]

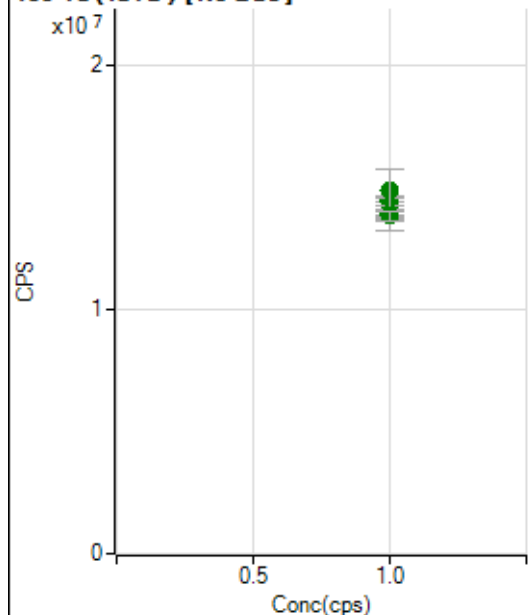
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4322346.88		A	1.7
2	☐	1.000		4356856.53		A	3.0
3	☐	1.000		4375041.98		A	0.6
4	☐	1.000		4220603.06		A	1.1
5	☐	1.000		4007132.99		A	10.4
6	☐	1.000		4140206.88		A	1.2
7	☐	1.000		4193957.96		A	1.6
8	☐	1.000		3892454.63		A	2.4

115 In (ISTD) [No Gas]

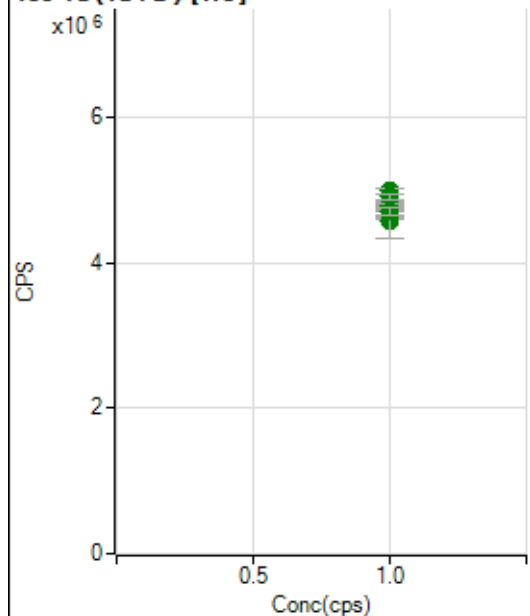
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12711732.39		A	0.7
2	☐	1.000		12614519.14		A	2.0
3	☐	1.000		12599840.59		A	5.7
4	☐	1.000		12868221.32		A	1.7
5	☐	1.000		12889936.55		A	1.8
6	☐	1.000		12274733.96		A	2.7
7	☐	1.000		12497265.68		A	9.3
8	☐	1.000		11581286.46		A	1.8

115 In (ISTD) [He]

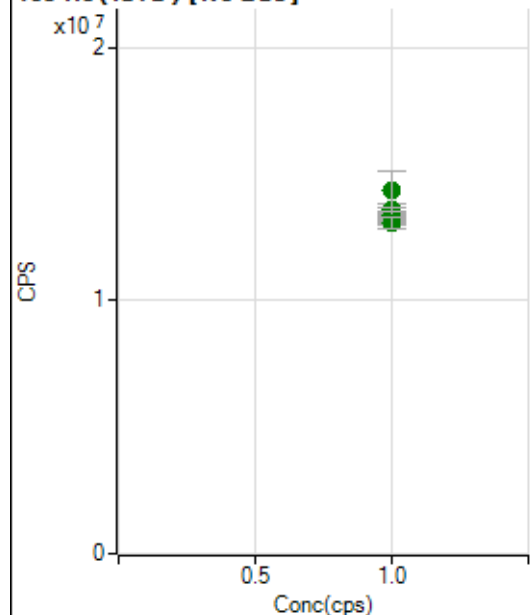
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1582001.76		A	1.1
2	☐	1.000		1609842.05		A	3.9
3	☐	1.000		1603928.09		A	0.9
4	☐	1.000		1551656.50		A	0.6
5	☐	1.000		1486981.49		M	9.8
6	☐	1.000		1500393.33		M	0.4
7	☐	1.000		1550195.66		A	1.5
8	☐	1.000		1544810.84		M	1.3

159 Tb (ISTD) [No Gas]

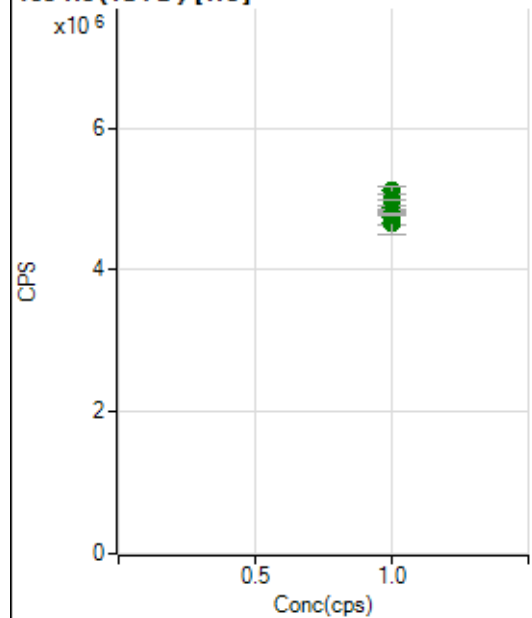
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		14018403.40		A	1.4
2	☐	1.000		13848278.68		A	1.0
3	☐	1.000		13928212.57		A	9.2
4	☐	1.000		14540231.73		A	1.8
5	☐	1.000		14440684.51		A	2.2
6	☐	1.000		13928665.63		A	3.1
7	☐	1.000		14883805.33		A	11.7
8	☐	1.000		13860650.91		A	2.6

159 Tb (ISTD) [He]

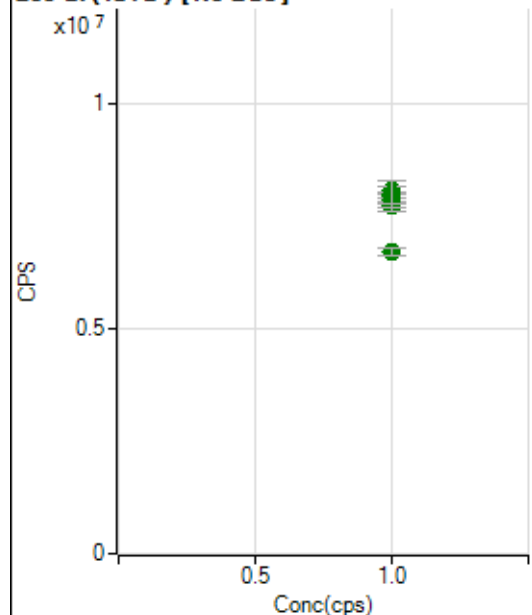
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4702989.20		A	3.1
2	☐	1.000		4700665.59		A	4.3
3	☐	1.000		4784846.14		A	2.6
4	☐	1.000		4796792.99		A	3.1
5	☐	1.000		4572518.12		A	10.0
6	☐	1.000		4716925.03		A	2.1
7	☐	1.000		4991310.41		A	1.4
8	☐	1.000		4907792.77		A	1.4

165 Ho (ISTD) [No Gas]

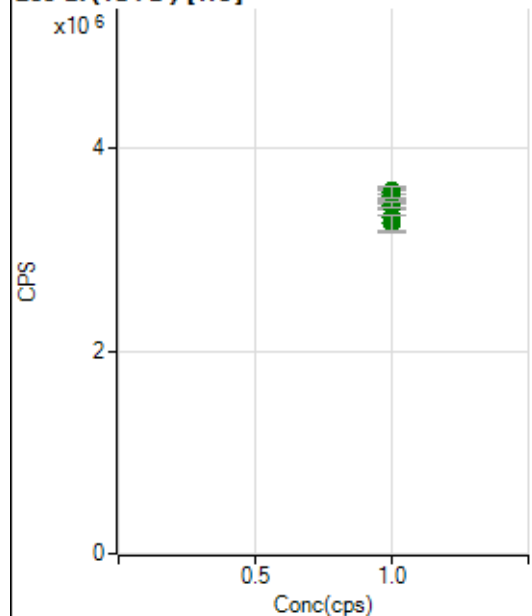
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		13285124.08		A	1.3
2	☐	1.000		13077542.13		A	1.1
3	☐	1.000		13349733.63		A	4.2
4	☐	1.000		13626187.54		A	2.5
5	☐	1.000		13565159.33		A	1.9
6	☐	1.000		13397913.23		A	3.6
7	☐	1.000		14326427.14		A	11.0
8	☐	1.000		13043410.71		A	3.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4777053.50		A	0.6
2	☐	1.000		4742400.80		A	4.2
3	☐	1.000		4870359.79		A	1.9
4	☐	1.000		4836507.46		A	0.9
5	☐	1.000		4651157.19		A	6.3
6	☐	1.000		4781874.65		A	1.0
7	☐	1.000		5112547.18		A	2.0
8	☐	1.000		4983270.59		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7741672.32		A	1.6
2	☐	1.000		7715880.02		A	1.3
3	☐	1.000		7857128.91		A	7.0
4	☐	1.000		8047656.27		A	2.0
5	☐	1.000		7942649.60		A	1.6
6	☐	1.000		7830046.48		A	1.6
7	☐	1.000		7974103.35		A	7.9
8	☐	1.000		6698823.93		A	2.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3489927.45		A	0.4
2	☐	1.000		3460938.56		A	3.5
3	☐	1.000		3583793.07		A	1.8
4	☐	1.000		3536058.66		A	2.8
5	☐	1.000		3319837.90		A	8.5
6	☐	1.000		3446503.21		A	2.0
7	☐	1.000		3572222.41		A	2.9
8	☐	1.000		3264961.34		A	4.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8032622 MS.b

Acq. Date-Time 2022-03-26 12:10:23

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		22758	227580.24			0.874	5.000
24		145810	1458099.96			1.674	5.000
25		19718	197182.26			0.230	5.000
26		22738	227377.57			0.200	5.000
59		33333	333329.71			0.648	5.000
113		15331	153309.04			0.667	5.000
115		46198	461978.35			3.413	5.000
206		15719	157188.63			0.777	5.000
207		13134	131344.43			1.264	5.000
208		32579	325788.87			1.077	5.000
220		1	6.10			24.862	

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

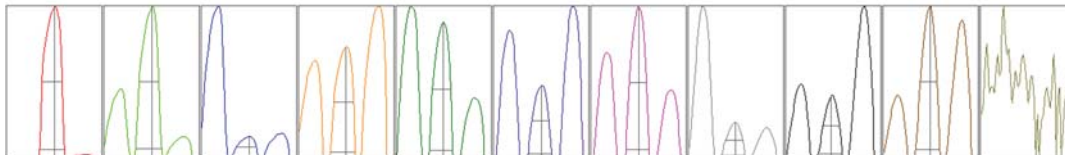
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	22591	22797	23027	22840	22535
24	148980	146557	145720	142181	145612
25	19739	19727	19764	19718	19643
26	22705	22715	22818	22726	22725
59	33684	33372	33274	33211	33125
113	15418	15249	15464	15253	15271
115	48175	47282	46083	45226	44222
206	15579	15700	15729	15673	15913
207	12954	13248	13046	13062	13362
208	32609	32773	32569	32007	32936

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	39218.46	9.05	8.90 - 9.10	
24	252866.14	24.05	23.90 - 24.10	
25	33949.65	25.05	24.90 - 25.10	
26	38483.57	26.00	25.90 - 26.10	
59	61283.42	59.00	58.90 - 59.10	
113	30208.81	113.05	112.90 - 113.10	
115	90626.81	115.05	114.90 - 115.10	
206	31229.98	206.00	205.90 - 206.10	
207	26120.99	206.95	206.90 - 207.10	
208	64202.39	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.781	0.900	
24	0.61	0.823	0.900	
25	0.62	0.787	0.900	
26	0.63	0.784	0.900	
59	0.57	0.739	0.900	
113	0.53	0.733	0.900	
115	0.53	0.729	0.900	
206	0.52	0.739	0.900	
207	0.52	0.765	0.900	
208	0.52	0.769	0.900	
220	0.44			

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	9.4 V	Deflect	15.2 V
Extract 2	-165.0 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	170 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.2 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2292 V	Pulse HV	1648 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5211	52108.52			4.842	
89		18416	184163.87			4.663	
205		29634	296339.59			4.294	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4762	5345	5335	5283	5331
89	16883	18882	18787	18765	18765
205	27376	30376	30112	29975	30330

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	9.4 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-165.0 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	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.2 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2292 V	Pulse HV	1648 V
---------------	--------	-----------	--------	----------	--------