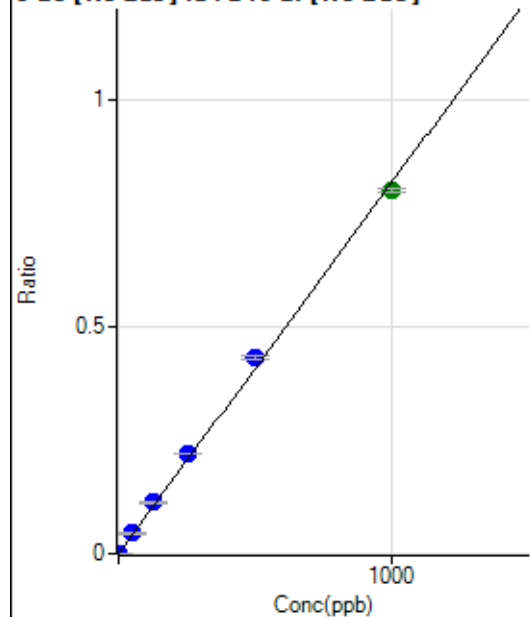


Calibration for 009CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7082224MS.b\
 Analysis File: P7082224MS.batch.bin
 DA Date-Time: 2024-08-22 15:05:25
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-08-22 10:10:23
2	005CALS.d	S02	2024-08-22 10:13:40
3	006CALS.d	S03	2024-08-22 10:16:59
4	007CALS.d	S04	2024-08-22 10:20:04
5	008CALS.d	S05	2024-08-22 10:23:01
6	009CALS.d	S06	2024-08-22 10:25:51
7	010CALS.d	S07	2024-08-22 10:28:39
8	011CALS.d	S08	2024-08-22 10:31:24

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.89	0.0000	P	114.
2	☐	1.000	1.106	1225.62	0.0009	P	5.1
3	☐	50.000	54.631	60214.02	0.0446	P	1.7
4	☐	125.000	138.098	158363.62	0.1128	P	1.4
5	☐	250.000	269.140	322603.21	0.2197	P	0.9
6	☐	500.000	529.985	657672.53	0.4327	P	2.1
7	☐	1000.000	978.353	1179059.13	0.7988	A	0.9
8	☐			220.00	0.0001	P	16.8

$$y = 8.1644\text{E-}004 * x + 6.5935\text{E-}006$$

$$R = 0.9991$$

$$DL = 0.02768$$

$$BEC = 0.008076$$

Weight: <None>

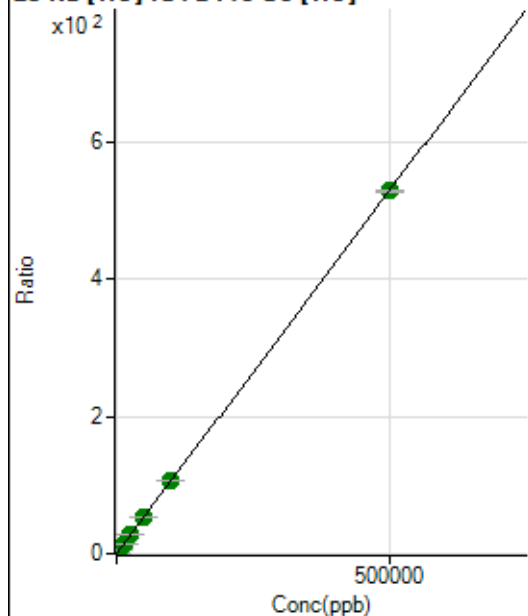
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12889.93	0.0336	P	2.6
2	☐	500.000	504.887	215966.52	0.5669	P	0.5
3	☐	5000.000	5031.335	1994458.72	5.3477	A	2.4
4	☐	12500.000	12700.845	4887569.37	13.4482	A	1.1
5	☐	25000.000	25465.877	9380511.46	26.9306	A	0.4
6	☐	50000.000	50432.129	18087889.45	53.2999	A	1.3
7	☐	100000.00	101145.68	35182203.64	106.8634	A	0.1
8	☐	500000.00	499699.01	177726861.7	527.8144	A	0.5

$$y = 0.0011 * x + 0.0336$$

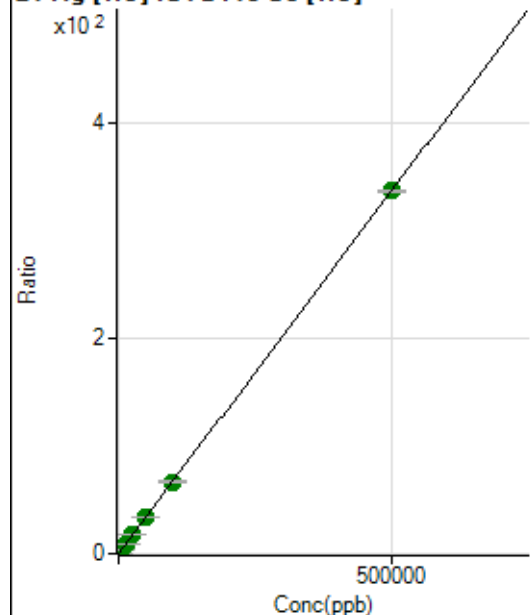
$$R = 1.0000$$

$$DL = 2.485$$

$$BEC = 31.85$$

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	637.80	0.0017	P	8.0
2	☐	500.000	491.074	126602.73	0.3323	P	0.7
3	☐	5000.000	5032.064	1264299.16	3.3899	A	1.0
4	☐	12500.000	12803.545	3133768.95	8.6228	A	1.5
5	☐	25000.000	25314.780	5937710.40	17.0471	A	0.4
6	☐	50000.000	49656.749	11347496.22	33.4374	A	0.2
7	☐	100000.00	99261.845	22003590.23	66.8384	A	1.5
8	☐	500000.00	500158.31	113399096.0	336.7769	A	0.9

$$y = 6.7334\text{E-}004 * x + 0.0017$$

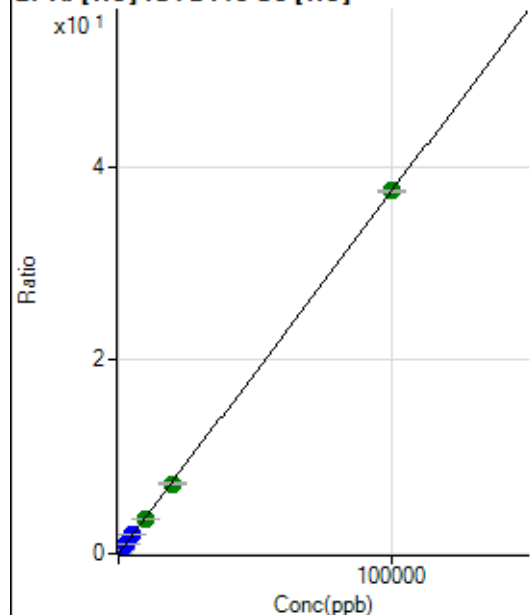
$$R = 1.0000$$

$$DL = 0.5897$$

$$BEC = 2.472$$

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	142.22	0.0004	P	40.3
2	☐	20.000	18.661	2802.51	0.0074	P	1.9
3	☐	1000.000	1017.804	142224.65	0.3813	P	0.3
4	☐	2500.000	2570.388	349813.56	0.9625	P	0.5
5	☐	5000.000	5105.829	665812.74	1.9115	P	0.5
6	☐	10000.000	9700.664	1232391.69	3.6314	A	0.1
7	☐	20000.000	19352.892	2384974.76	7.2444	A	1.1
8	☐	100000.00	100152.12	12623282.17	37.4885	A	0.7

$$y = 3.7431\text{E-}004 * x + 3.7153\text{E-}004$$

$$R = 1.0000$$

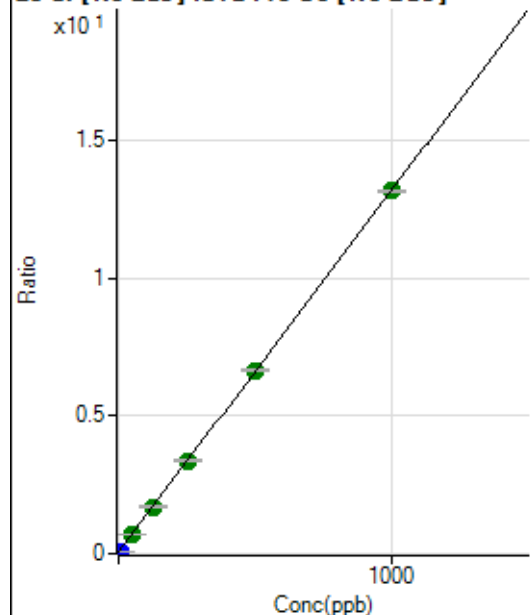
$$DL = 1.199$$

$$BEC = 0.9926$$

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	287468.30	0.0595	P	1.1
2	☐	10.000	0.301	303152.24	0.0634	P	1.1
3	☐	50.000	48.901	3301803.08	0.7009	A	1.2
4	☐	125.000	125.291	8012438.49	1.7030	A	1.0
5	☐	250.000	251.576	15489397.41	3.3595	A	1.8
6	☐	500.000	502.760	30183628.72	6.6544	A	1.1
7	☐	1000.000	998.342	58363213.57	13.1551	A	0.4
8	☐			440224.84	0.0999	P	1.6

$$y = 0.0131 * x + 0.0595$$

$$R = 0.9999$$

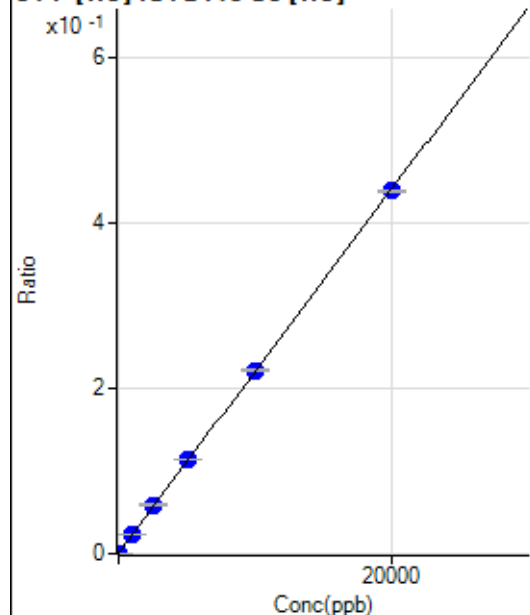
$$DL = 0.1485$$

$$BEC = 4.533$$

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	-14.851	164.45	0.0004	P	10.2
2	☐	0.000	14.851	412.23	0.0011	P	12.0
3	☐	1000.000	1032.229	8751.46	0.0235	P	1.9
4	☐	2500.000	2653.024	21488.50	0.0591	P	2.3
5	☐	5000.000	5156.599	39777.17	0.1142	P	0.5
6	☐	10000.000	10043.729	75241.50	0.2217	P	0.5
7	☐	20000.000	19918.246	144509.14	0.4389	P	0.7
8	☐			233.34	0.0007	P	14.9

$$y = 2.2000E-005 * x + 7.5584E-004$$

$$R = 0.9999$$

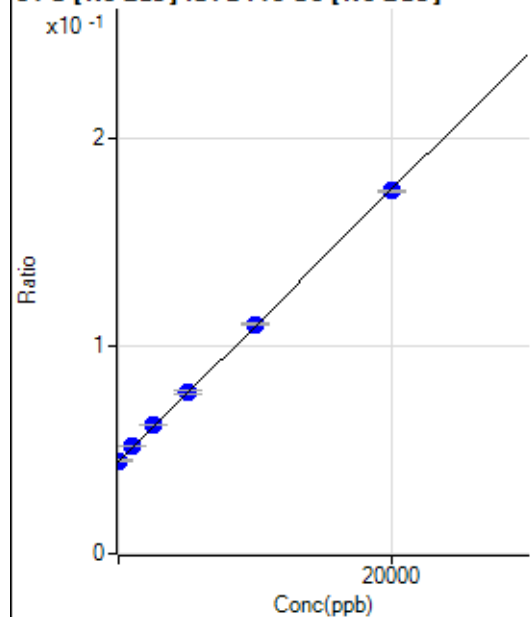
$$DL = 11.87$$

$$BEC = 34.36$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-23.037	214911.54	0.0445	P	1.2
2	☐	0.000	23.037	213928.40	0.0448	P	2.3
3	☐	1000.000	1157.083	245828.95	0.0522	P	0.1
4	☐	2500.000	2627.041	290829.17	0.0618	P	0.4
5	☐	5000.000	5088.842	359323.63	0.0779	P	1.7
6	☐	10000.000	10105.700	502528.34	0.1108	P	1.2
7	☐	20000.000	19901.205	776144.39	0.1749	P	0.3
8	☐			180041.31	0.0409	P	1.3

$$y = 6.5491E-006 * x + 0.0446$$

R = 0.9999

DL = 349

BEC = 6811

Weight: <None>

Min Conc: 0

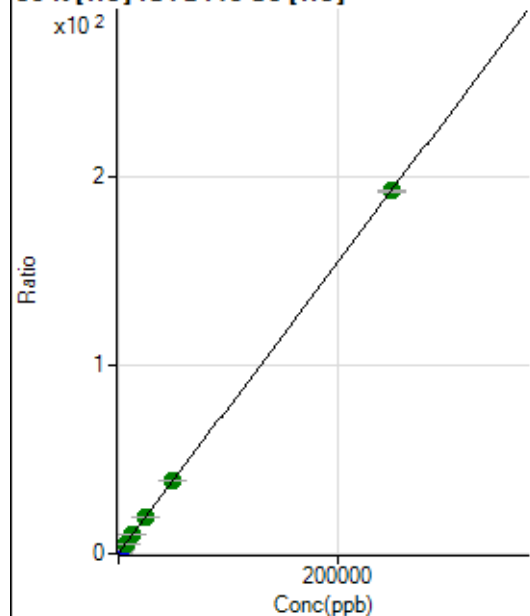
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57754.79	0.1507	P	1.8
2	☐	500.000	525.742	211611.51	0.5555	P	0.1
3	☐	2500.000	2767.304	850787.35	2.2812	P	0.3
4	☐	6250.000	6583.537	1897066.31	5.2193	A	1.1
5	☐	12500.000	12655.353	3446211.48	9.8939	A	0.8
6	☐	25000.000	25280.363	6656040.94	19.6137	A	1.2
7	☐	50000.000	50410.531	12826914.39	38.9611	A	0.2
8	☐	250000.00	249871.02	64826400.14	192.5230	A	0.8

$$y = 7.6989\text{E-}004 * x + 0.1507$$

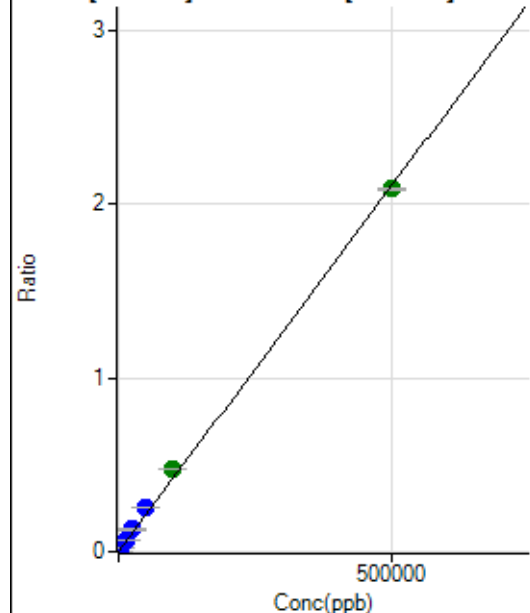
$$R = 1.0000$$

$$DL = 10.78$$

$$BEC = 195.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	482.24	0.0001	P	6.4
2	☐	500.000	509.680	10729.44	0.0022	P	2.4
3	☐	5000.000	5941.274	118256.66	0.0251	P	0.6
4	☐	12500.000	15087.988	299199.62	0.0636	P	1.8
5	☐	25000.000	30279.831	587933.19	0.1275	P	2.8
6	☐	50000.000	59715.099	1140365.91	0.2514	P	1.1
7	☐	100000.00	113145.15	2113015.91	0.4763	A	1.0
8	☐	500000.00	496061.34	9198754.24	2.0877	A	0.7

$$y = 4.2084\text{E-}006 * x + 9.9767\text{E-}005$$

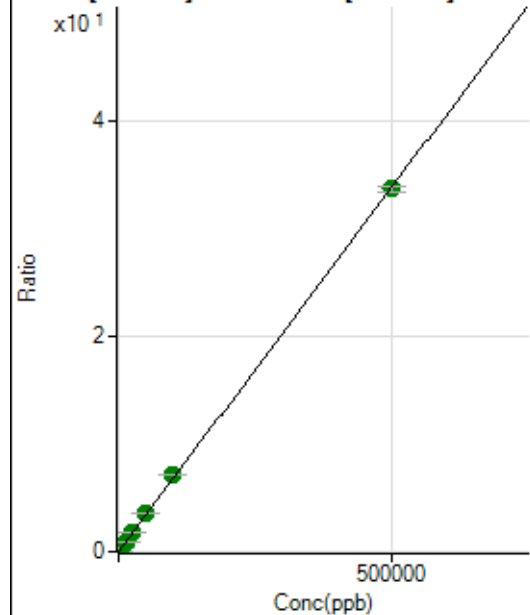
$$R = 0.9995$$

$$DL = 4.537$$

$$BEC = 23.71$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13812.46	0.0029	P	1.6
2	☐	500.000	516.959	181019.13	0.0379	P	1.4
3	☐	5000.000	5300.900	1704566.03	0.3618	A	0.7
4	☐	12500.000	13425.880	4291176.39	0.9121	A	2.0
5	☐	25000.000	26609.580	8322845.99	1.8049	A	0.9
6	☐	50000.000	53575.001	16471047.26	3.6311	A	0.3
7	☐	100000.00	106008.72	31863795.91	7.1821	A	0.5
8	☐	500000.00	498334.10	148704982.2	33.7515	A	1.7

$$y = 6.7723\text{E-}005 * x + 0.0029$$

$$R = 0.9999$$

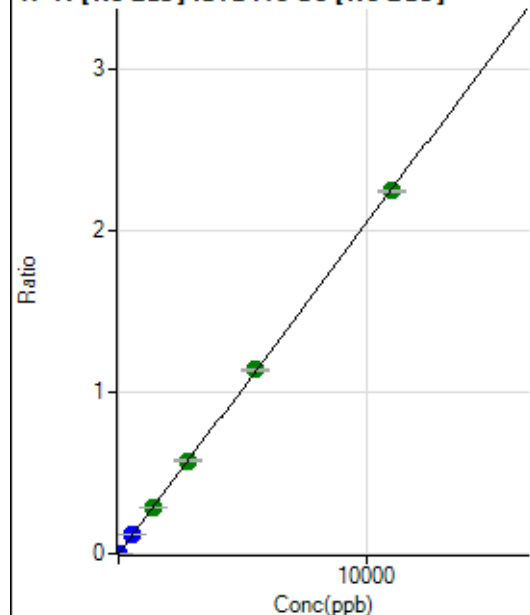
$$DL = 1.976$$

$$BEC = 42.18$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114.44	0.0000	P	33.7
2	☐	5.000	4.987	4996.43	0.0010	P	1.3
3	☐	550.000	560.511	540921.67	0.1148	P	0.9
4	☐	1375.000	1374.624	1324946.44	0.2816	A	0.5
5	☐	2750.000	2795.782	2640098.16	0.5727	A	2.5
6	☐	5500.000	5549.558	5155857.91	1.1367	A	1.1
7	☐	11000.000	10963.297	9962328.26	2.2455	A	0.6
8	☐			2296.87	0.0005	P	19.4

$$y = 2.0482\text{E-}004 * x + 2.3696\text{E-}005$$

$$R = 1.0000$$

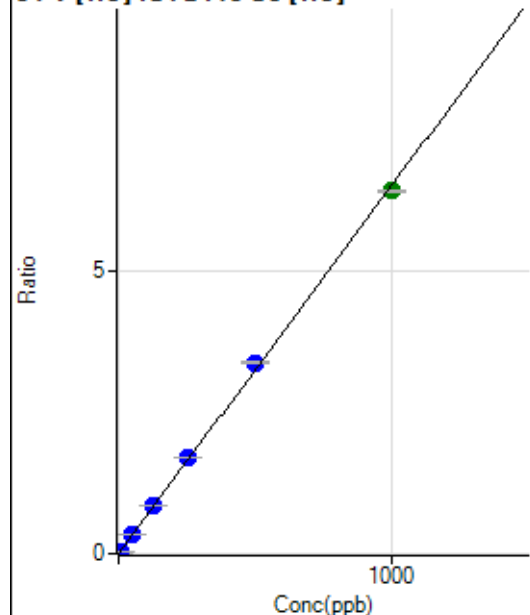
$$DL = 0.1168$$

$$BEC = 0.1157$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	57.1
2	☐	5.000	4.922	12197.23	0.0320	P	3.1
3	☐	50.000	52.111	126322.51	0.3387	P	0.4
4	☐	125.000	132.453	312882.13	0.8609	P	0.7
5	☐	250.000	262.032	593188.32	1.7030	P	0.6
6	☐	500.000	519.609	1146081.99	3.3771	P	0.6
7	☐	1000.000	986.151	2110039.38	6.4093	A	0.8
8	☐			786.70	0.0023	P	9.2

$$y = 0.0065 * x + 2.6046\text{E-}005$$

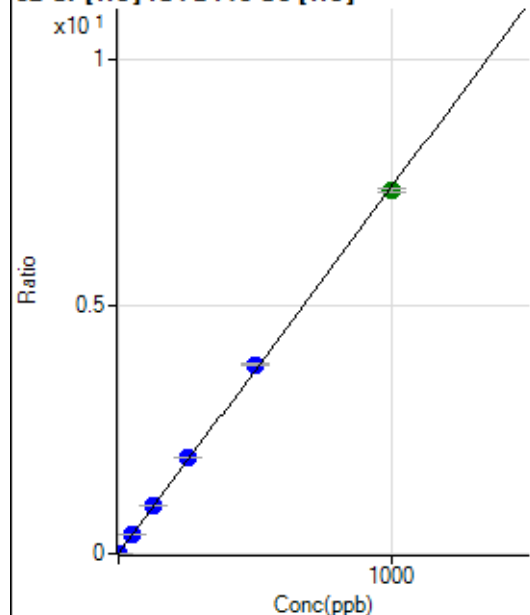
$$R = 0.9996$$

$$DL = 0.006863$$

$$BEC = 0.004008$$

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	1631.22	0.0043	P	2.4
2	☐	2.000	1.962	7165.09	0.0188	P	3.2
3	☐	50.000	51.664	144466.97	0.3874	P	1.0
4	☐	125.000	132.413	358423.70	0.9862	P	0.2
5	☐	250.000	260.551	674442.53	1.9363	P	0.7
6	☐	500.000	514.157	1295325.82	3.8169	P	0.9
7	☐	1000.000	989.274	2416628.85	7.3401	A	1.0
8	☐			12829.99	0.0381	P	2.2

$$y = 0.0074 * x + 0.0043$$

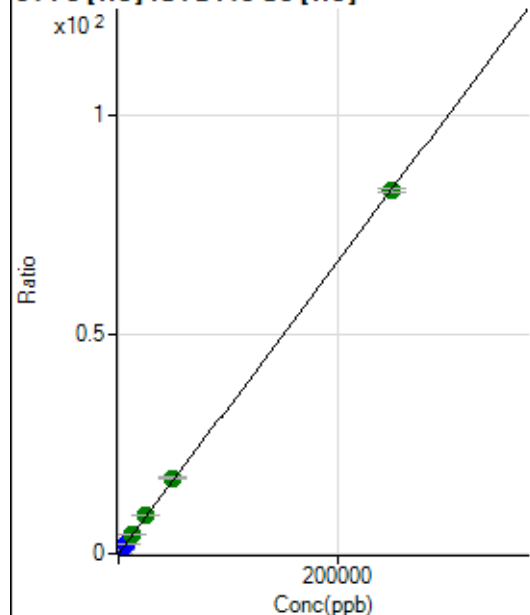
$$R = 0.9998$$

$$DL = 0.04139$$

$$BEC = 0.574$$

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	1480.09	0.0039	P	1.3
2	☐	50.000	54.102	8324.58	0.0219	P	2.1
3	☐	2500.000	2827.120	352057.95	0.9440	P	0.4
4	☐	6250.000	7217.814	873703.04	2.4040	P	0.8
5	☐	12500.000	13438.989	1557946.87	4.4728	A	1.0
6	☐	25000.000	26690.365	3013188.15	8.8793	A	2.1
7	☐	50000.000	52002.213	5694367.83	17.2963	A	1.2
8	☐	250000.00	249356.10	27921448.47	82.9228	A	0.9

$$y = 3.3253E-004 * x + 0.0039$$

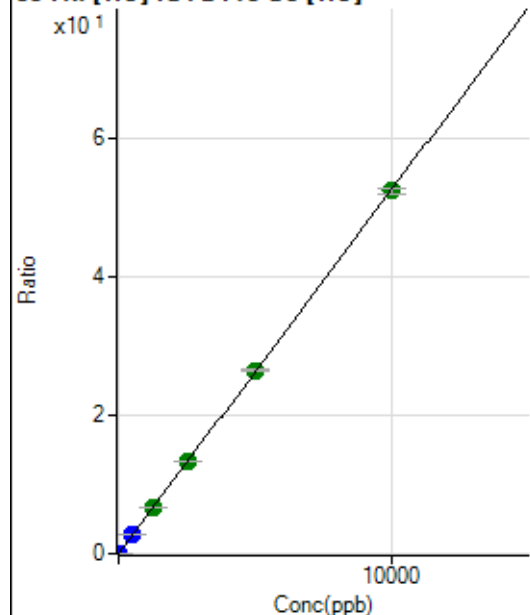
$$R = 1.0000$$

$$DL = 0.4558$$

$$BEC = 11.61$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	360.01	0.0009	P	7.6
2	☐	1.000	0.955	2267.97	0.0060	P	2.8
3	☐	500.000	516.099	1010699.93	2.7100	P	0.6
4	☐	1250.000	1282.139	2446382.29	6.7311	A	0.8
5	☐	2500.000	2532.177	4630259.13	13.2927	A	0.8
6	☐	5000.000	5037.421	8973703.76	26.4431	A	1.7
7	☐	10000.000	9968.423	17226963.36	52.3266	A	1.6
8	☐			10566.02	0.0314	P	1.2

$$y = 0.0052 * x + 9.3954E-004$$

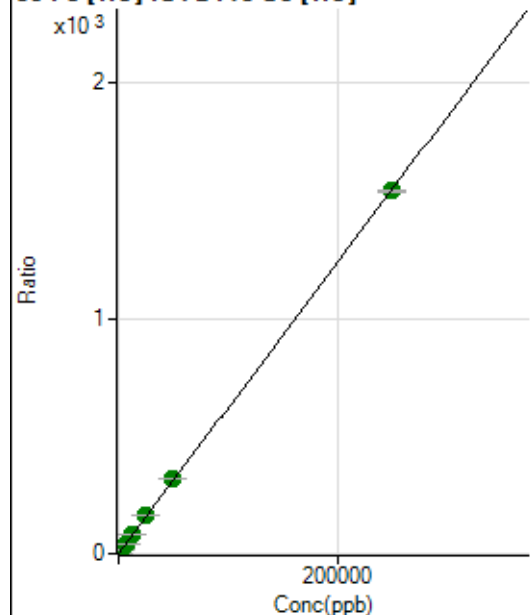
$$R = 1.0000$$

$$DL = 0.04098$$

$$BEC = 0.179$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13353.80	0.0348	P	2.9
2	☐	50.000	53.012	137963.30	0.3621	P	0.7
3	☐	2500.000	2578.147	5949464.08	15.9525	A	1.2
4	☐	6250.000	6601.367	14825897.56	40.7921	A	0.2
5	☐	12500.000	13033.093	28040307.64	80.5019	A	0.9
6	☐	25000.000	26031.138	54553296.96	160.7525	A	1.5
7	☐	50000.000	51343.017	104367918.4	317.0295	A	1.3
8	☐	250000.00	249592.06	518900867.8	1,541.030	A	0.4

$$y = 0.0062 * x + 0.0348$$

$$R = 1.0000$$

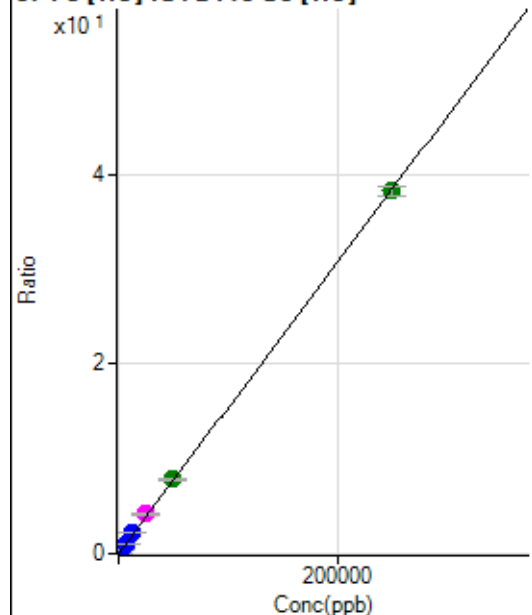
$$DL = 0.4868$$

$$BEC = 5.644$$

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	1762.34	0.0046	P	1.6
2	☐	50.000	55.234	4980.87	0.0131	P	2.7
3	☐	2500.000	2774.420	160528.88	0.4304	P	0.4
4	☐	6250.000	7038.880	394319.67	1.0849	P	0.9
5	☐	12500.000	14010.763	750614.76	2.1550	P	0.5
6	☐	25000.000	27099.560	1413132.58	4.1639	M	2.2
7	☐	50000.000	51207.749	2588818.73	7.8641	A	2.1
8	☐	250000.00	249450.48	12892382.31	38.2908	A	2.6

$$y = 1.5348\text{E-}004 * x + 0.0046$$

$$R = 1.0000$$

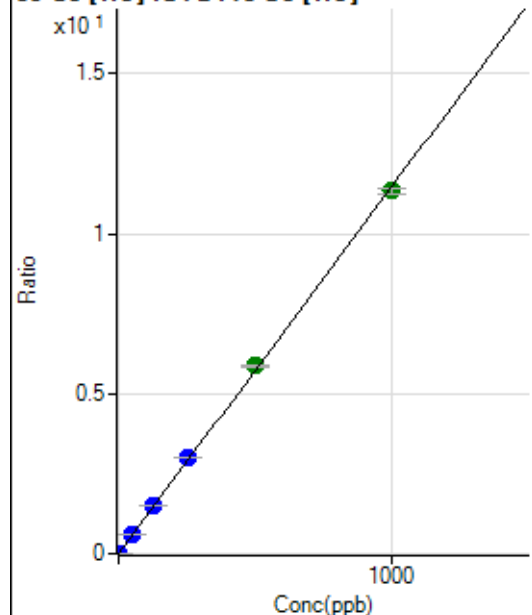
$$DL = 1.426$$

$$BEC = 29.96$$

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	80.00	0.0002	P	16.8
2	☐	1.000	1.044	4631.87	0.0122	P	2.0
3	☐	50.000	52.235	223163.92	0.5984	P	0.8
4	☐	125.000	132.730	552481.87	1.5201	P	0.3
5	☐	250.000	262.215	1045929.48	3.0029	P	0.6
6	☐	500.000	512.580	1992004.08	5.8698	A	0.8
7	☐	1000.000	989.578	3730481.86	11.3320	A	1.7
8	☐			10269.16	0.0305	P	2.9

$$y = 0.0115 * x + 2.0877\text{E-}004$$

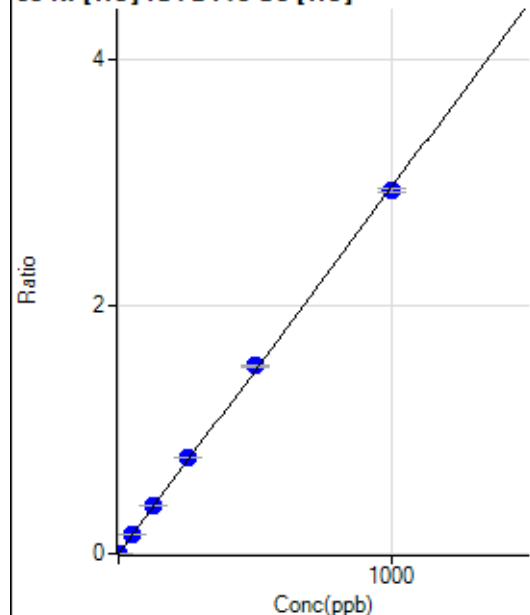
$$R = 0.9998$$

$$DL = 0.009184$$

$$BEC = 0.01823$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	454.45	0.0012	P	5.2
2	☐	1.000	0.940	1513.43	0.0040	P	3.4
3	☐	50.000	52.158	58081.99	0.1557	P	0.5
4	☐	125.000	131.264	141791.85	0.3901	P	0.2
5	☐	250.000	261.898	270705.66	0.7772	P	1.0
6	☐	500.000	511.815	515059.22	1.5177	P	0.5
7	☐	1000.000	990.227	966344.88	2.9353	P	0.9
8	☐			5183.16	0.0154	P	2.5

$$y = 0.0030 * x + 0.0012$$

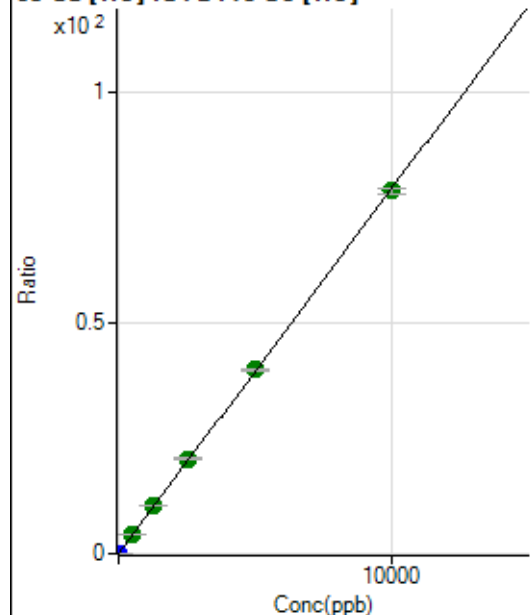
$$R = 0.9998$$

$$DL = 0.06304$$

$$BEC = 0.4003$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1185.61	0.0031	P	3.5
2	☐	2.000	1.969	7099.53	0.0186	P	1.0
3	☐	500.000	519.774	1531632.43	4.1067	A	0.7
4	☐	1250.000	1317.202	3780880.15	10.4024	A	0.5
5	☐	2500.000	2598.944	7147858.92	20.5217	A	0.8
6	☐	5000.000	5045.555	13519374.24	39.8377	A	0.7
7	☐	10000.000	9943.097	25843625.45	78.5037	A	1.6
8	☐			7053.94	0.0209	P	2.1

$$y = 0.0079 * x + 0.0031$$

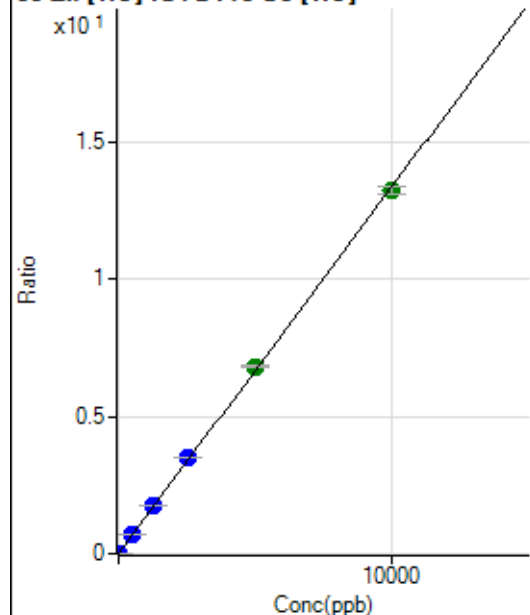
$$R = 0.9999$$

$$DL = 0.04097$$

$$BEC = 0.3918$$

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	696.69	0.0018	P	3.3
2	☐	5.000	4.977	3221.49	0.0085	P	1.9
3	☐	500.000	515.869	257269.99	0.6898	P	0.3
4	☐	1250.000	1316.348	638728.60	1.7574	P	0.5
5	☐	2500.000	2629.182	1221960.50	3.5083	P	0.9
6	☐	5000.000	5114.730	2315514.99	6.8232	A	1.0
7	☐	10000.000	9901.252	4347766.15	13.2069	A	1.9
8	☐			3626.03	0.0108	P	0.9

$$y = 0.0013 * x + 0.0018$$

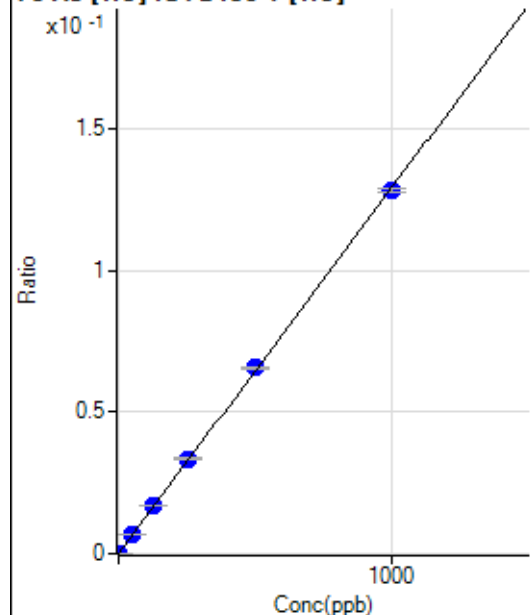
$$R = 0.9998$$

$$DL = 0.1367$$

$$BEC = 1.363$$

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	0.00	0.0000	P	
2	☐	1.000	1.017	388.90	0.0001	P	4.6
3	☐	50.000	52.436	19431.69	0.0068	P	2.0
4	☐	125.000	132.066	48444.36	0.0171	P	1.0
5	☐	250.000	259.470	93024.46	0.0335	P	1.4
6	☐	500.000	508.587	179506.02	0.0658	P	0.8
7	☐	1000.000	992.334	340147.86	0.1283	P	1.1
8	☐			220.00	0.0001	P	14.4

$$y = 1.2929E-004 * x + 0.0000E+000$$

$$R = 0.9999$$

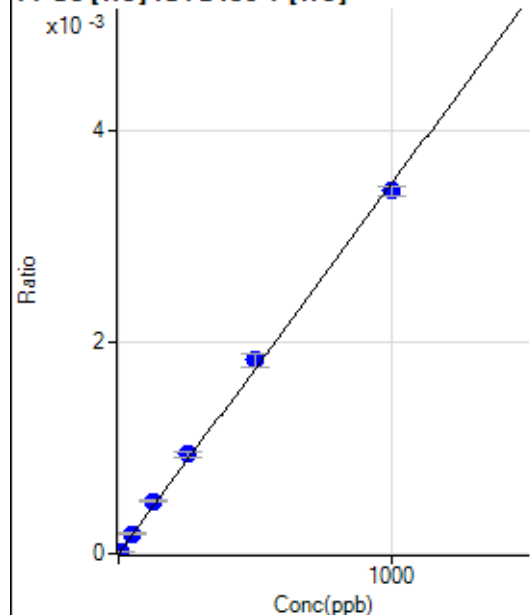
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.527	46.67	0.0000	P	26.3
3	☐	50.000	54.551	545.57	0.0002	P	3.8
4	☐	125.000	141.607	1401.19	0.0005	P	3.1
5	☐	250.000	268.145	2594.69	0.0009	P	4.4
6	☐	500.000	523.992	4988.67	0.0018	P	7.2
7	☐	1000.000	981.167	9075.07	0.0034	P	2.5
8	☐			4.44	0.0000	P	115.

$$y = 3.4889\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

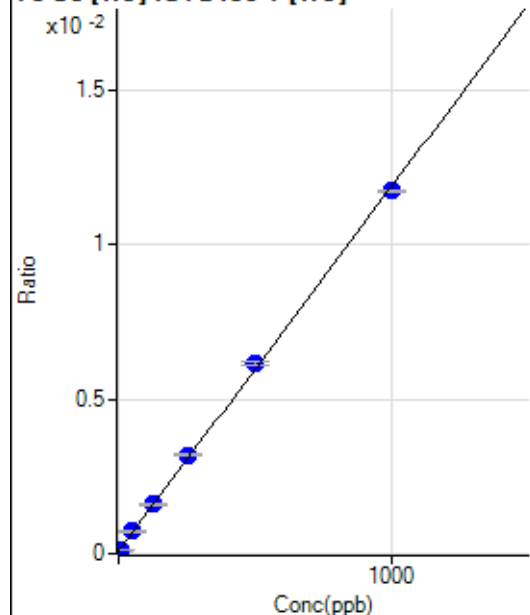
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	238.89	0.0001	P	6.7
2	☐	5.000	5.172	425.57	0.0001	P	6.9
3	☐	50.000	54.085	2065.72	0.0007	P	3.1
4	☐	125.000	128.644	4538.52	0.0016	P	3.2
5	☐	250.000	262.671	8818.25	0.0032	P	2.2
6	☐	500.000	515.677	16830.77	0.0062	P	2.2
7	☐	1000.000	988.333	31119.38	0.0117	P	0.3
8	☐			206.67	0.0001	P	11.3

$$y = 1.1792\text{E-}005 * x + 8.2930\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.413$$

$$BEC = 7.033$$

Weight: <None>

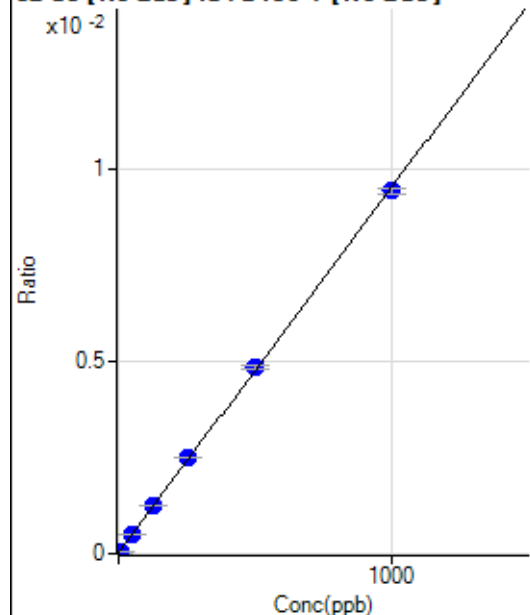
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8130.08		P	0.9
2	☐			7887.73		P	2.3
3	☐			7897.74		P	5.1
4	☐			8042.27		P	2.9
5	☐			8048.93		P	4.0
6	☐			7746.55		P	2.4
7	☐			7430.83		P	2.6
8	☐			7765.44		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	19.2
2	☐			54.45		P	7.1
3	☐			51.11		P	46.3
4	☐			37.78		P	25.5
5	☐			42.22		P	37.3
6	☐			60.00		P	38.5
7	☐			31.11		P	16.4
8	☐			80.00		P	12.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	315.68	0.0000	P	11.7
2	☐	5.000	4.608	878.31	0.0001	P	5.8
3	☐	50.000	50.477	6482.61	0.0005	P	3.5
4	☐	125.000	130.489	15944.56	0.0013	P	1.4
5	☐	250.000	262.020	31242.16	0.0025	P	0.6
6	☐	500.000	510.722	59417.11	0.0049	P	2.1
7	☐	1000.000	990.926	113696.71	0.0095	P	1.8
8	☐			375.77	0.0000	P	11.7

$$y = 9.5178\text{E-}006 * x + 2.4042\text{E-}005$$

R = 0.9998

DL = 0.8859

BEC = 2.526

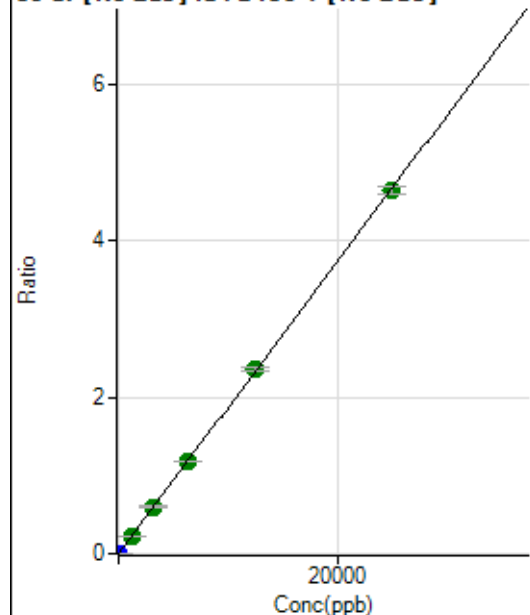
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			185.56		P	19.2
2	☐			215.56		P	9.9
3	☐			233.34		P	15.5
4	☐			240.00		P	5.0
5	☐			210.00		P	22.4
6	☐			211.12		P	9.6
7	☐			197.78		P	14.7
8	☐			252.23		P	13.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	462.23	0.0000	P	10.5
2	☐	1.000	0.925	2681.39	0.0002	P	4.9
3	☐	1250.000	1237.857	2962123.81	0.2305	A	1.8
4	☐	3125.000	3212.987	7533154.82	0.5982	A	3.2
5	☐	6250.000	6342.426	14650893.25	1.1808	A	1.5
6	☐	12500.000	12689.805	28734825.96	2.3625	A	2.2
7	☐	25000.000	24871.600	55677173.62	4.6304	A	2.0
8	☐			12443.20	0.0011	P	14.1

$$y = 1.8617E-004 * x + 3.5185E-005$$

$$R = 0.9999$$

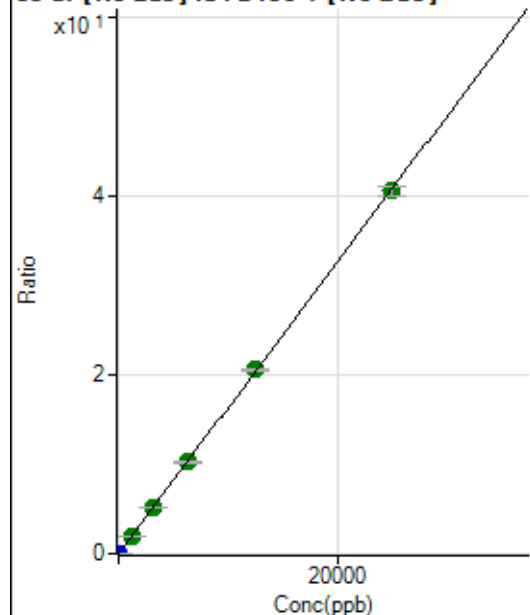
$$DL = 0.05969$$

$$BEC = 0.189$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1094.50	0.0001	P	3.8
2	☐	1.000	0.932	20743.59	0.0016	P	2.2
3	☐	1250.000	1239.285	25977803.50	2.0214	A	2.1
4	☐	3125.000	3154.139	64788380.70	5.1446	A	2.6
5	☐	6250.000	6307.039	127638256.9	10.2870	A	1.3
6	☐	12500.000	12635.730	250692442.9	20.6093	A	1.5
7	☐	25000.000	24914.768	488596797.1	40.6368	A	2.7
8	☐			106531.62	0.0092	P	14.3

$$y = 0.0016 * x + 8.3368E-005$$

$$R = 1.0000$$

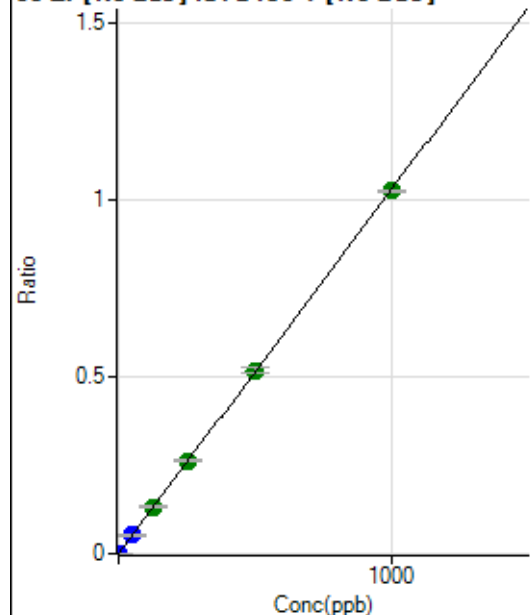
$$DL = 0.005854$$

$$BEC = 0.05111$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	501.12	0.0000	P	3.6
2	☐	1.000	0.907	12558.81	0.0010	P	1.8
3	☐	50.000	50.258	664448.67	0.0517	P	1.9
4	☐	125.000	128.975	1670233.69	0.1326	A	1.6
5	☐	250.000	255.451	3258727.31	0.2626	A	0.9
6	☐	500.000	503.665	6298133.66	0.5178	A	2.5
7	☐	1000.000	996.295	12316648.29	1.0242	A	0.7
8	☐			7707.65	0.0007	P	3.0

$$y = 0.0010 * x + 3.8171E-005$$

$$R = 1.0000$$

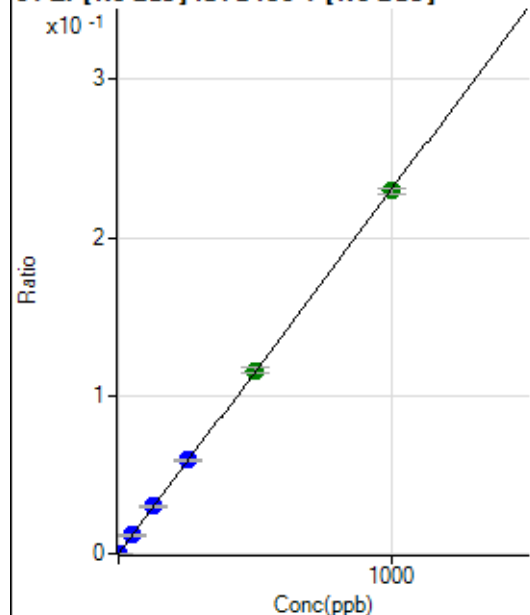
$$DL = 0.003965$$

$$BEC = 0.03713$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	124.45	0.0000	P	23.6
2	☐	1.000	0.855	2670.27	0.0002	P	2.1
3	☐	50.000	50.198	148774.91	0.0116	P	2.1
4	☐	125.000	129.649	376356.37	0.0299	P	2.1
5	☐	250.000	256.198	732610.74	0.0590	P	1.5
6	☐	500.000	503.047	1409940.46	0.1159	A	2.6
7	☐	1000.000	996.336	2761024.54	0.2296	A	1.4
8	☐			1651.22	0.0001	P	4.6

$$y = 2.3043E-004 * x + 9.4668E-006$$

$$R = 1.0000$$

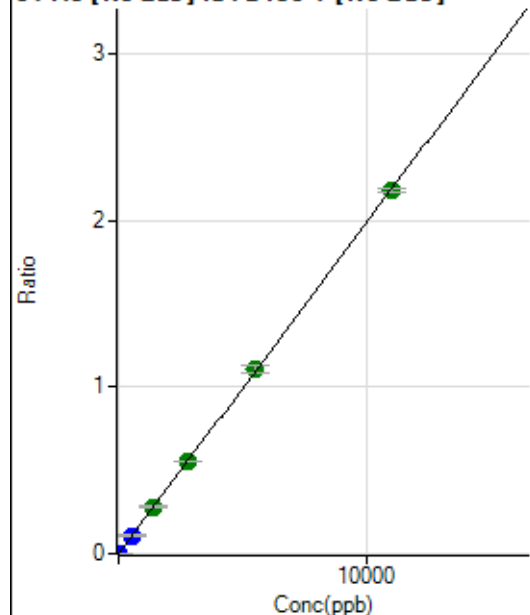
$$DL = 0.0291$$

$$BEC = 0.04108$$

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	286.67	0.0000	P	8.0
2	☐	5.000	5.633	14758.64	0.0011	P	1.9
3	☐	550.000	548.760	1401582.62	0.1091	P	1.7
4	☐	1375.000	1413.738	3538243.21	0.2809	A	1.8
5	☐	2750.000	2770.211	6830151.98	0.5505	A	0.3
6	☐	5500.000	5579.741	13482965.49	1.1087	A	3.5
7	☐	11000.000	10950.296	26165124.33	2.1758	A	1.0
8	☐			8842.78	0.0008	P	9.1

$$y = 1.9870E-004 * x + 2.1828E-005$$

R = 1.0000

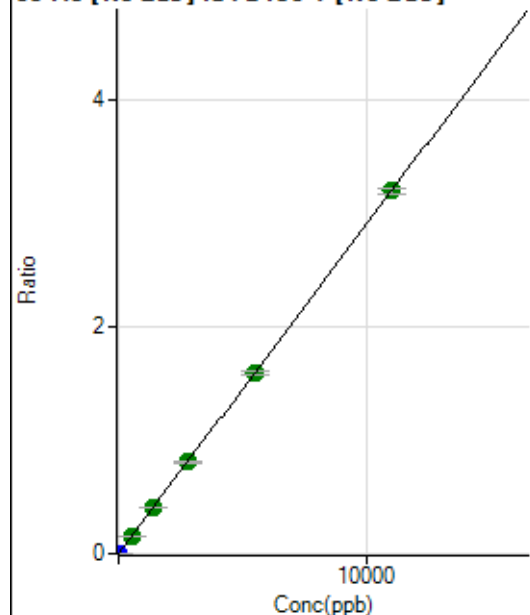
DL = 0.02642

BEC = 0.1099

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	241.12	0.0000	P	9.0
2	☐	5.000	4.808	18289.29	0.0014	P	2.5
3	☐	550.000	539.215	2012201.43	0.1566	A	1.5
4	☐	1375.000	1383.874	5060286.76	0.4018	A	1.5
5	☐	2750.000	2785.663	10034700.82	0.8088	A	2.2
6	☐	5500.000	5481.595	19356119.85	1.5915	A	2.7
7	☐	11000.000	10999.717	38400997.48	3.1936	A	1.9
8	☐			9674.43	0.0008	P	13.1

$$y = 2.9033E-004 * x + 1.8354E-005$$

R = 1.0000

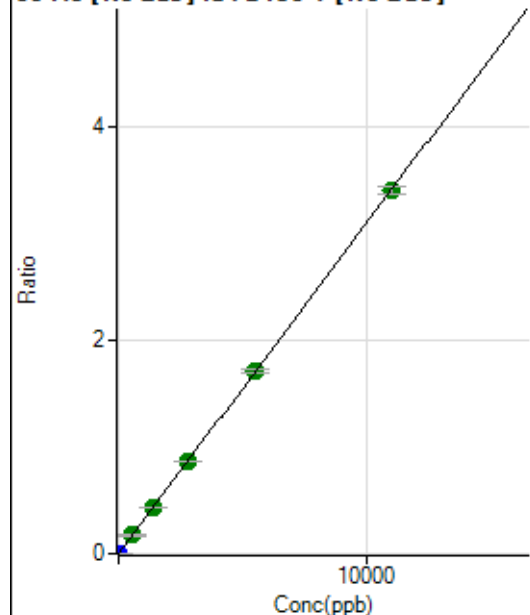
DL = 0.017

BEC = 0.06322

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	294.45	0.0000	P	10.0
2	☐	5.000	4.960	20215.23	0.0016	P	1.9
3	☐	550.000	552.264	2204768.66	0.1716	A	2.3
4	☐	1375.000	1412.931	5527638.11	0.4389	A	1.2
5	☐	2750.000	2791.033	10757097.48	0.8670	A	1.6
6	☐	5500.000	5542.656	20941236.08	1.7217	A	1.9
7	☐	11000.000	10963.559	40948522.17	3.4055	A	2.1
8	☐			17433.88	0.0015	P	6.8

$$y = 3.1062\text{E-}004 * x + 2.2413\text{E-}005$$

$$R = 1.0000$$

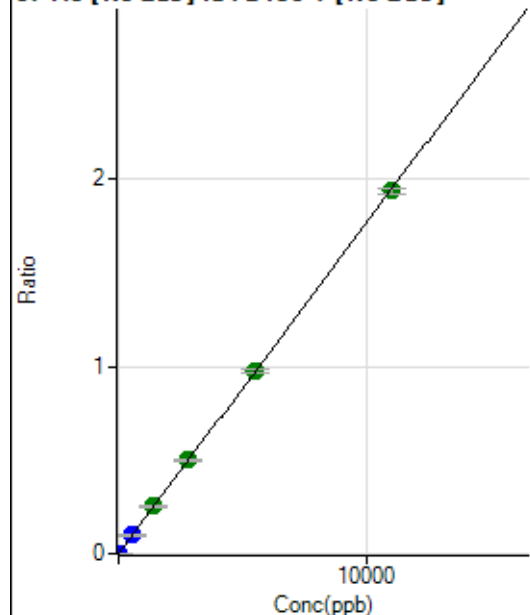
$$DL = 0.02171$$

$$BEC = 0.07216$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.56	0.0000	P	15.6
2	☐	5.000	4.812	11173.24	0.0009	P	1.9
3	☐	550.000	557.183	1268143.51	0.0987	P	2.1
4	☐	1375.000	1425.944	3180279.01	0.2525	A	1.4
5	☐	2750.000	2824.793	6206640.81	0.5002	A	1.9
6	☐	5500.000	5540.157	11933115.66	0.9811	A	2.0
7	☐	11000.000	10954.496	23327266.60	1.9399	A	1.6
8	☐			5976.85	0.0005	P	7.4

$$y = 1.7708\text{E-}004 * x + 1.1838\text{E-}005$$

$$R = 1.0000$$

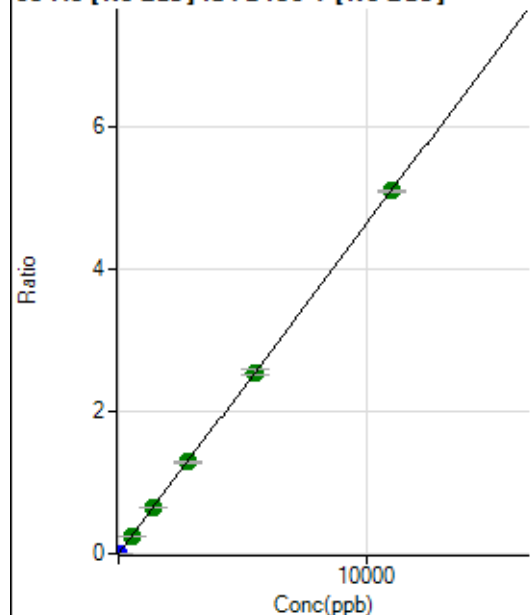
$$DL = 0.03127$$

$$BEC = 0.06685$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	394.45	0.0000	P	4.1
2	☐	5.000	4.770	29016.64	0.0022	P	2.2
3	☐	550.000	537.277	3204597.07	0.2494	A	1.9
4	☐	1375.000	1400.062	8181940.71	0.6497	A	3.4
5	☐	2750.000	2774.131	15973546.43	1.2874	A	1.2
6	☐	5500.000	5502.814	31056973.98	2.5536	A	2.9
7	☐	11000.000	10990.064	61332232.42	5.1000	A	0.6
8	☐			15440.56	0.0013	P	11.6

$$y = 4.6406\text{E-}004 * x + 3.0041\text{E-}005$$

$$R = 1.0000$$

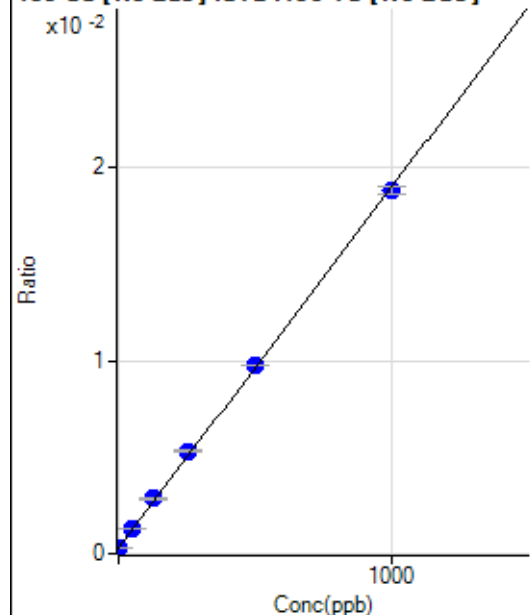
$$DL = 0.007968$$

$$BEC = 0.06474$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3051.47	0.0003	P	6.1
2	☐	1.000	2.025	3339.30	0.0003	P	4.3
3	☐	50.000	53.146	12882.46	0.0013	P	0.9
4	☐	125.000	136.465	28273.14	0.0028	P	0.9
5	☐	250.000	268.792	52844.53	0.0053	P	1.2
6	☐	500.000	506.510	98122.08	0.0097	P	0.6
7	☐	1000.000	990.456	184986.55	0.0188	P	2.0
8	☐			2826.97	0.0003	P	4.9

$$y = 1.8657\text{E-}005 * x + 2.9947\text{E-}004$$

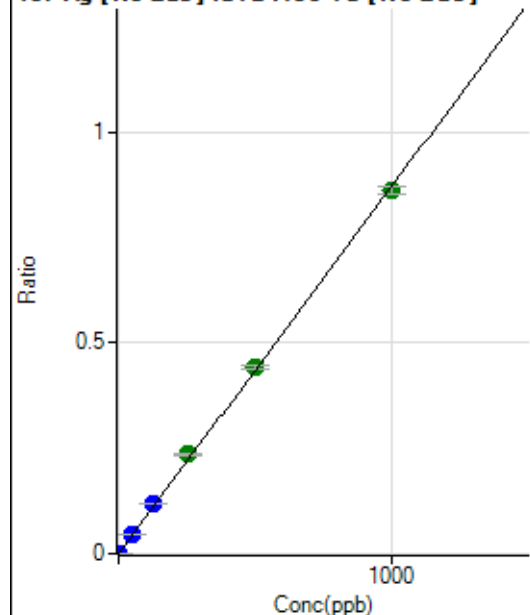
$$R = 0.9997$$

$$DL = 2.917$$

$$BEC = 16.05$$

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	53.33	0.0000	P	35.4
2	☐	1.000	0.979	8481.44	0.0009	P	1.6
3	☐	50.000	54.038	469015.56	0.0470	P	1.0
4	☐	125.000	137.243	1186057.10	0.1194	P	0.8
5	☐	250.000	270.638	2340740.07	0.2354	A	0.8
6	☐	500.000	509.172	4456761.70	0.4428	A	1.4
7	☐	1000.000	988.522	8469376.68	0.8597	A	2.0
8	☐			1464.53	0.0002	P	17.2

$$y = 8.6972\text{E-}004 * x + 5.2432\text{E-}006$$

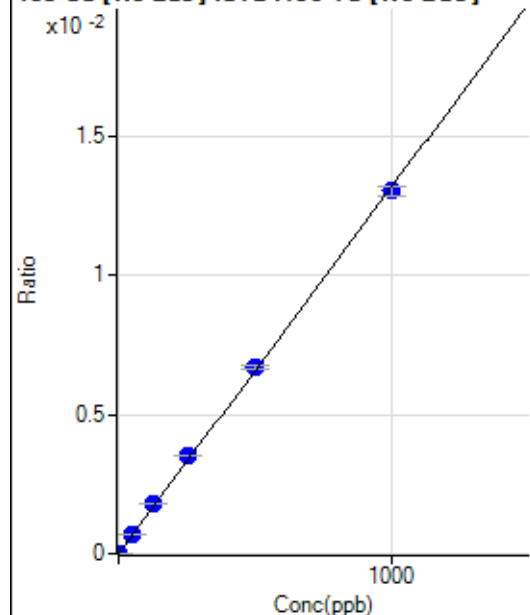
$$R = 0.9997$$

$$DL = 0.006403$$

$$BEC = 0.006029$$

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	10.00	0.0000	P	88.7
2	☐	1.000	0.982	137.78	0.0000	P	20.7
3	☐	50.000	53.672	7050.66	0.0007	P	2.6
4	☐	125.000	136.194	17799.90	0.0018	P	2.6
5	☐	250.000	268.188	35070.14	0.0035	P	1.0
6	☐	500.000	508.324	67262.67	0.0067	P	1.7
7	☐	1000.000	989.708	128181.67	0.0130	P	2.4
8	☐			58.89	0.0000	P	10.5

$$y = 1.3147\text{E-}005 * x + 9.8398\text{E-}007$$

$$R = 0.9997$$

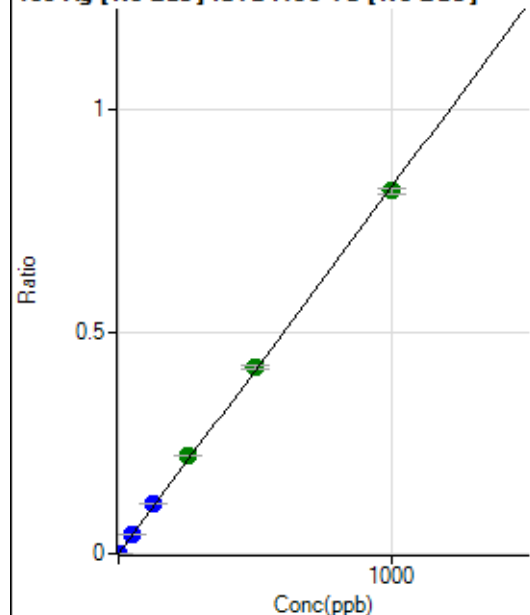
$$DL = 0.1992$$

$$BEC = 0.07485$$

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	13.33	0.0000	P	25.4
2	☐	1.000	0.991	8119.01	0.0008	P	1.5
3	☐	50.000	53.467	440634.69	0.0442	P	2.0
4	☐	125.000	137.073	1124897.80	0.1132	P	0.9
5	☐	250.000	267.130	2194042.66	0.2206	A	0.3
6	☐	500.000	508.993	4230724.94	0.4204	A	1.6
7	☐	1000.000	989.539	8051717.45	0.8173	A	1.2
8	☐			1376.75	0.0001	P	14.5

$$y = 8.2592E-004 * x + 1.3099E-006$$

$$R = 0.9997$$

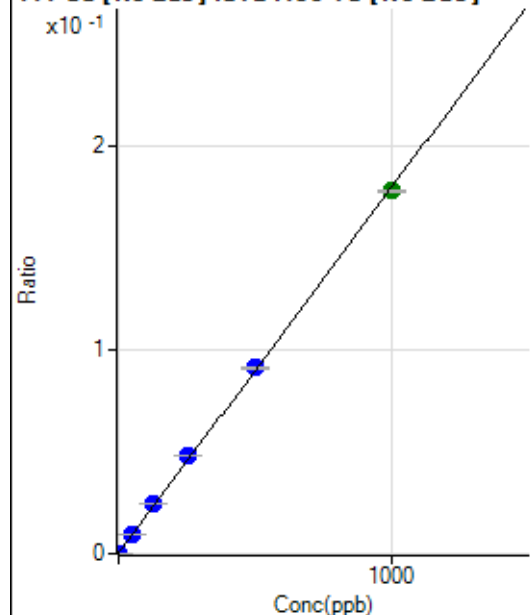
$$DL = 0.001209$$

$$BEC = 0.001586$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2136.80	0.0002	P	6.1
2	☐	1.000	1.163	4145.65	0.0004	P	4.1
3	☐	50.000	53.361	97736.15	0.0098	P	1.8
4	☐	125.000	136.203	245183.98	0.0247	P	1.3
5	☐	250.000	266.642	478386.69	0.0481	P	0.2
6	☐	500.000	507.073	918832.53	0.0913	P	0.8
7	☐	1000.000	990.734	1755477.84	0.1782	A	0.3
8	☐			2354.33	0.0003	P	5.9

$$y = 1.7963E-004 * x + 2.0970E-004$$

$$R = 0.9998$$

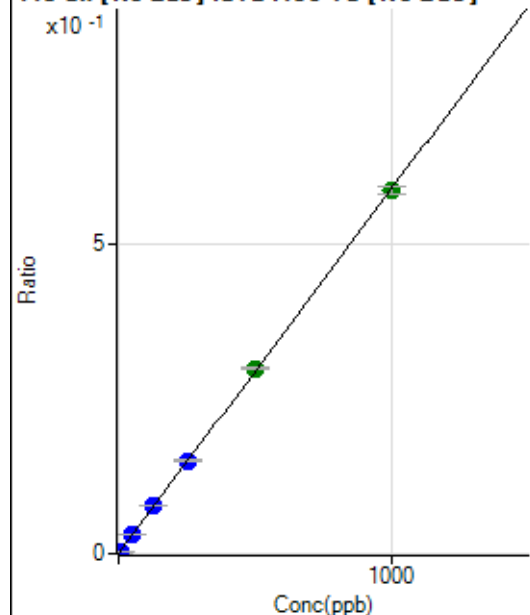
$$DL = 0.2127$$

$$BEC = 1.167$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3871.70	0.0004	P	2.9
2	☐	5.000	4.764	31484.40	0.0032	P	1.0
3	☐	50.000	51.063	303186.66	0.0304	P	1.8
4	☐	125.000	130.766	767272.02	0.0772	P	1.6
5	☐	250.000	254.691	1491944.32	0.1500	P	1.2
6	☐	500.000	507.452	3004603.81	0.2986	A	1.5
7	☐	1000.000	994.329	5759441.37	0.5847	A	2.0
8	☐			5803.44	0.0006	P	6.1

$$y = 5.8760\text{E-}004 * x + 3.8001\text{E-}004$$

$$R = 0.9999$$

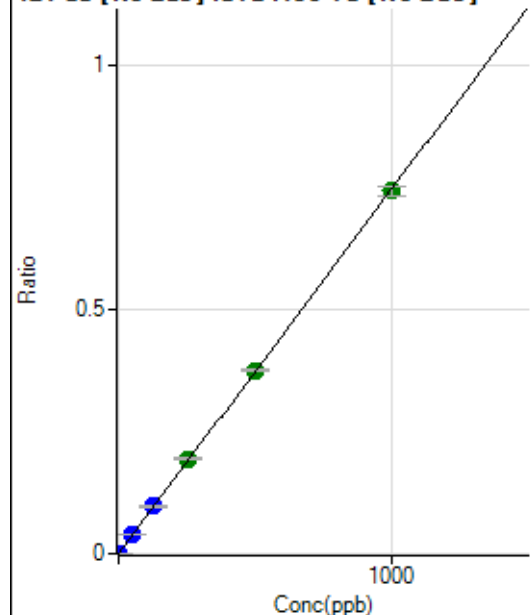
$$DL = 0.05717$$

$$BEC = 0.6467$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	42.22	0.0000	P	29.2
2	☐	2.000	1.904	14081.46	0.0014	P	2.1
3	☐	50.000	50.908	378225.20	0.0379	P	1.2
4	☐	125.000	130.110	962508.41	0.0969	P	1.3
5	☐	250.000	259.801	1923300.63	0.1934	A	2.0
6	☐	500.000	502.144	3762484.39	0.3738	A	0.9
7	☐	1000.000	995.794	7302976.49	0.7414	A	2.4
8	☐			5772.32	0.0006	P	4.0

$$y = 7.4448\text{E-}004 * x + 4.1393\text{E-}006$$

$$R = 0.9999$$

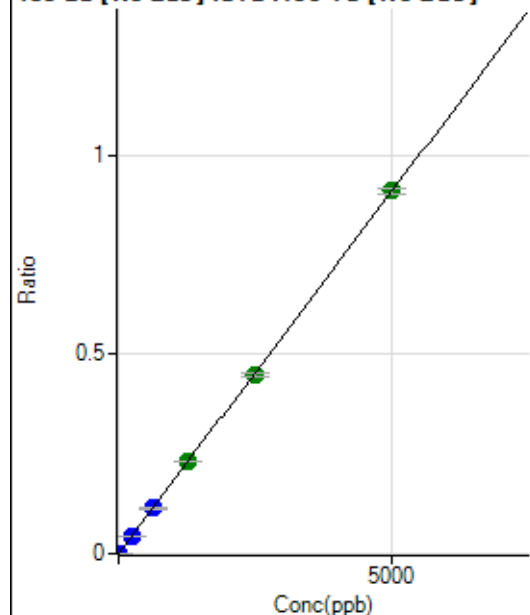
$$DL = 0.004864$$

$$BEC = 0.00556$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51.11	0.0000	P	13.3
2	☐	10.000	9.465	17084.82	0.0017	P	1.6
3	☐	250.000	246.859	447731.91	0.0449	P	1.2
4	☐	625.000	625.257	1129174.28	0.1136	P	0.6
5	☐	1250.000	1276.206	2306440.33	0.2319	A	1.6
6	☐	2500.000	2461.318	4501638.89	0.4473	A	2.1
7	☐	5000.000	5012.915	8975609.66	0.9111	A	1.3
8	☐			3876.12	0.0004	P	7.4

$$y = 1.8174\text{E-}004 * x + 5.0155\text{E-}006$$

$$R = 0.9999$$

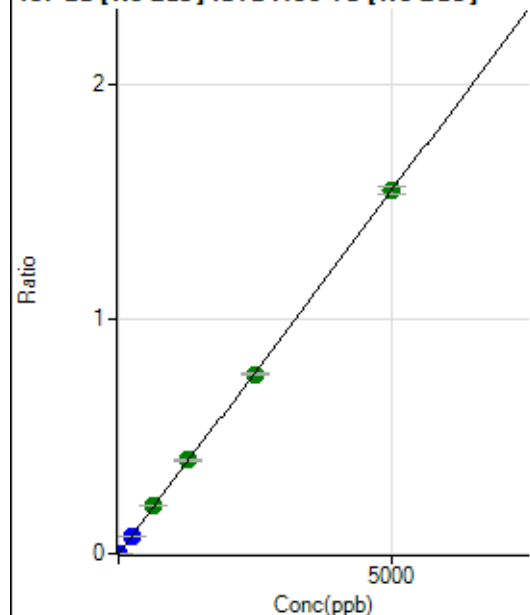
$$DL = 0.01098$$

$$BEC = 0.0276$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	12.0
2	☐	10.000	9.463	29138.76	0.0029	P	1.3
3	☐	250.000	248.054	767188.62	0.0769	P	0.7
4	☐	625.000	660.240	2033128.01	0.2046	A	1.3
5	☐	1250.000	1286.638	3965041.50	0.3987	A	1.3
6	☐	2500.000	2475.983	7723170.23	0.7673	A	0.6
7	☐	5000.000	4998.542	15260272.55	1.5491	A	2.1
8	☐			6618.28	0.0007	P	7.2

$$y = 3.0991\text{E-}004 * x + 9.8159\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01144$$

$$BEC = 0.03167$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	51.0
2	☐			11.11		P	45.8
3	☐			43.33		P	15.4
4	☐			78.89		P	10.6
5	☐			134.45		P	9.4
6	☐			243.34		P	7.2
7	☐			461.12		P	8.1
8	☐			138.89		P	13.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			3.33		P	0.0
3	☐			7.78		P	107.
4	☐			23.33		P	24.7
5	☐			45.55		P	29.6
6	☐			71.11		P	47.4
7	☐			123.34		P	20.4
8	☐			71.11		P	37.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	56.8
2	☐			8.89		P	78.1
3	☐			18.89		P	53.9
4	☐			38.89		P	9.9
5	☐			60.00		P	19.2
6	☐			124.45		P	17.0
7	☐			220.00		P	10.6
8	☐			264.45		P	11.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			5.56		P	34.7
3	☐			23.33		P	14.3
4	☐			67.78		P	19.9
5	☐			102.22		P	6.8
6	☐			254.45		P	14.0
7	☐			405.56		P	8.1
8	☐			206.67		P	16.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	22.7
2	☐			56.67		P	31.1
3	☐			63.33		P	36.8
4	☐			64.44		P	18.2
5	☐			81.11		P	18.5
6	☐			131.11		P	6.4
7	☐			201.12		P	12.7
8	☐			255.56		P	11.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			254.45		P	5.9
2	☐			241.12		P	19.4
3	☐			298.90		P	6.1
4	☐			282.23		P	11.0
5	☐			274.45		P	12.8
6	☐			284.45		P	9.0
7	☐			421.12		P	2.5
8	☐			395.57		P	11.0

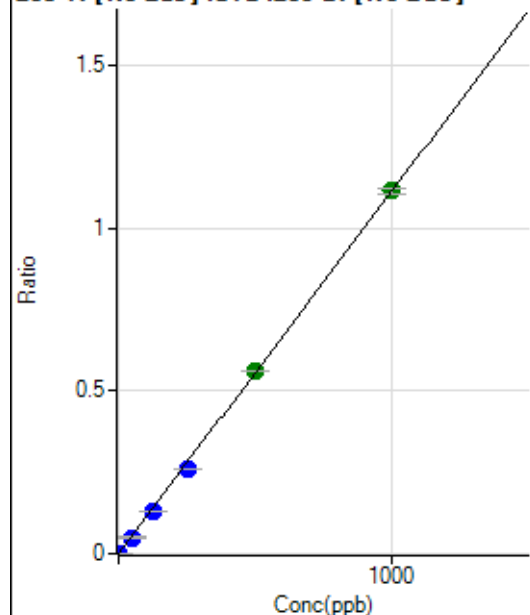
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	8.2
2	☐			85.55		P	19.6
3	☐			81.11		P	27.4
4	☐			107.78		P	9.4
5	☐			115.56		P	12.0
6	☐			170.00		P	17.4
7	☐			260.00		P	9.7
8	☐			288.90		P	9.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	9.9
2	☐			56.67		P	41.2
3	☐			56.67		P	15.6
4	☐			65.56		P	2.9
5	☐			78.89		P	29.7
6	☐			106.67		P	9.4
7	☐			140.00		P	19.5
8	☐			181.11		P	9.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	45.1
2	☐	1.000	0.836	5207.71	0.0009	P	3.1
3	☐	50.000	45.043	278302.05	0.0501	P	1.2
4	☐	125.000	118.310	717378.52	0.1317	P	1.2
5	☐	250.000	232.614	1433280.16	0.2589	P	1.2
6	☐	500.000	506.701	3118577.31	0.5640	A	0.1
7	☐	1000.000	1002.080	6047283.66	1.1154	A	1.6
8	☐			742.25	0.0002	P	35.1

$$y = 0.0011 * x + 8.0388E-006$$

$$R = 0.9998$$

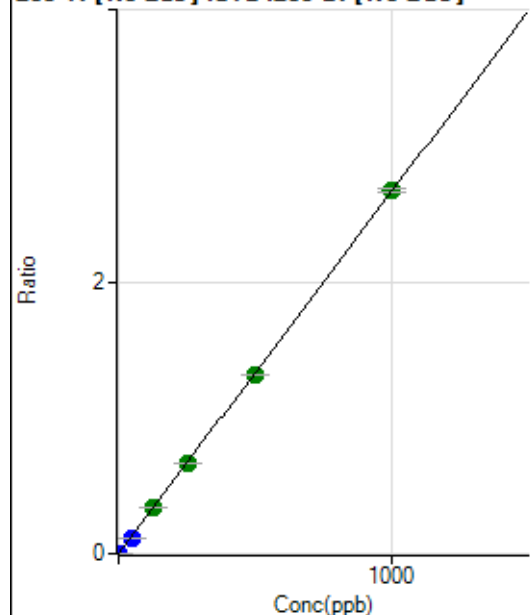
$$DL = 0.009773$$

$$BEC = 0.007222$$

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	72.23	0.0000	P	7.5
2	☐	1.000	0.819	12161.10	0.0022	P	1.5
3	☐	50.000	44.647	659164.03	0.1188	P	1.9
4	☐	125.000	126.633	1835153.13	0.3369	A	0.3
5	☐	250.000	250.542	3689218.49	0.6664	A	1.4
6	☐	500.000	494.185	7268730.66	1.3145	A	0.3
7	☐	1000.000	1002.836	14462051.04	2.6675	A	1.0
8	☐			1874.60	0.0004	P	21.1

$$y = 0.0027 * x + 1.3080E-005$$

$$R = 1.0000$$

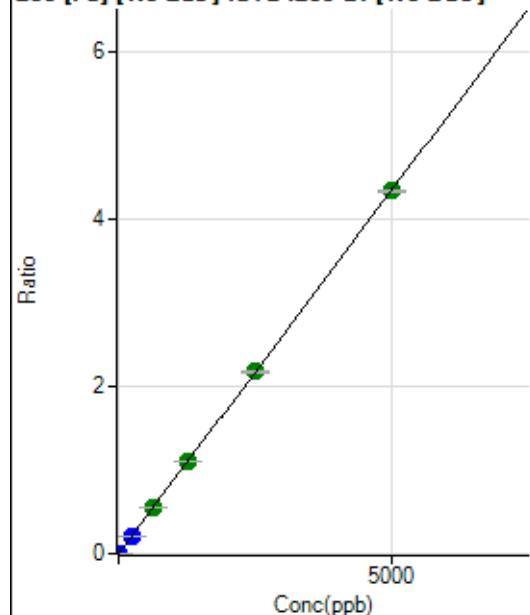
$$DL = 0.001114$$

$$BEC = 0.004918$$

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	210.00	0.0000	P	4.4
2	☐	1.000	0.832	4216.25	0.0008	P	1.8
3	☐	250.000	228.712	1101432.74	0.1985	P	2.0
4	☐	625.000	637.519	3013140.68	0.5531	A	0.7
5	☐	1250.000	1269.494	6096990.74	1.1014	A	1.5
6	☐	2500.000	2501.845	12001990.65	2.1706	A	1.2
7	☐	5000.000	4993.704	23489575.76	4.3324	A	0.9
8	☐			11297.03	0.0023	P	10.8

$$y = 8.6757\text{E-}004 * x + 3.8017\text{E-}005$$

$$R = 1.0000$$

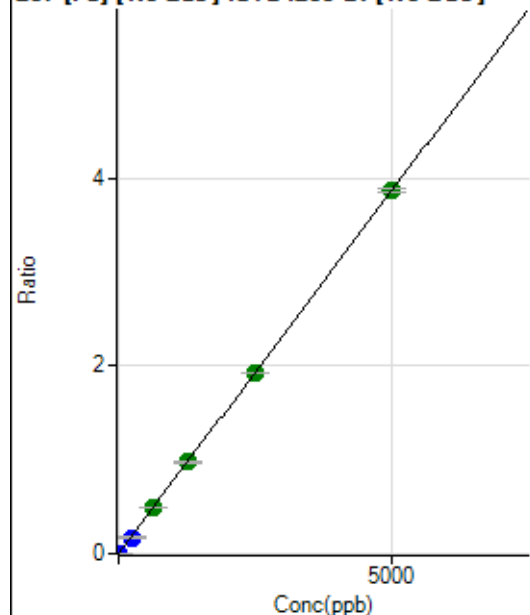
$$DL = 0.005742$$

$$BEC = 0.04382$$

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	170.00	0.0000	P	7.9
2	☐	1.000	0.823	3697.22	0.0007	P	6.6
3	☐	250.000	225.133	965101.52	0.1739	P	1.8
4	☐	625.000	640.410	2694030.24	0.4946	A	1.8
5	☐	1250.000	1263.914	5402989.68	0.9761	A	2.9
6	☐	2500.000	2489.260	10630051.02	1.9224	A	0.4
7	☐	5000.000	5001.209	20939657.33	3.8623	A	1.0
8	☐			9774.72	0.0020	P	10.1

$$y = 7.7227\text{E-}004 * x + 3.0769\text{E-}005$$

$$R = 1.0000$$

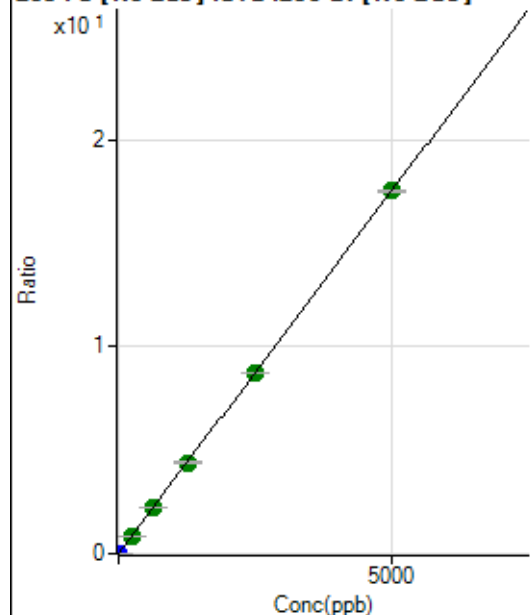
$$DL = 0.009395$$

$$BEC = 0.03984$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	884.46	0.0002	P	4.3
2	☐	1.000	0.833	17083.30	0.0031	P	0.9
3	☐	250.000	236.045	4589818.88	0.8269	A	1.5
4	☐	625.000	634.313	12102700.34	2.2219	A	1.5
5	☐	1250.000	1258.471	24400685.23	4.4080	A	1.8
6	☐	2500.000	2490.278	48231739.91	8.7225	A	0.5
7	☐	5000.000	5002.277	94992235.11	17.5209	A	0.7
8	☐			44938.49	0.0091	P	9.2

$$y = 0.0035 * x + 1.6011E-004$$

$$R = 1.0000$$

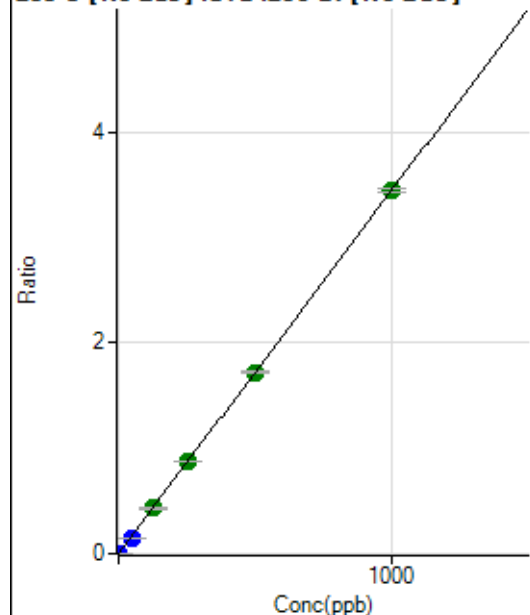
$$DL = 0.005931$$

$$BEC = 0.04571$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	29.5
2	☐	1.000	0.803	15358.96	0.0028	P	3.0
3	☐	50.000	43.104	823446.61	0.1484	P	2.3
4	☐	125.000	125.541	2353695.64	0.4321	A	2.3
5	☐	250.000	253.995	4839753.02	0.8743	A	1.2
6	☐	500.000	499.973	9516041.39	1.7209	A	1.3
7	☐	1000.000	999.292	18648712.22	3.4396	A	0.9
8	☐			2081.30	0.0004	P	26.4

$$y = 0.0034 * x + 3.6257E-006$$

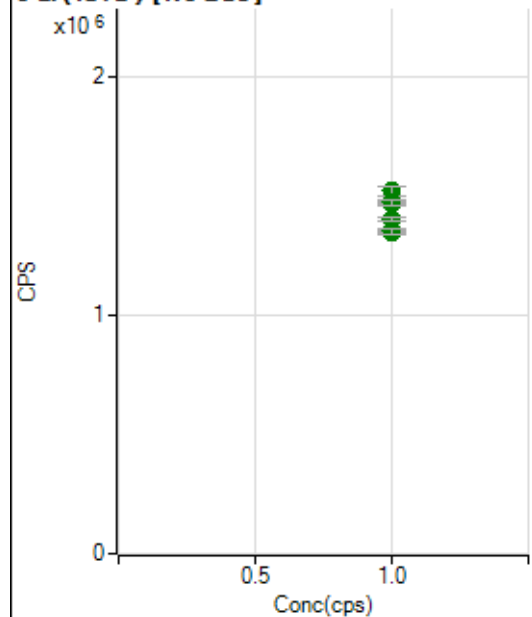
$$R = 1.0000$$

$$DL = 0.0009316$$

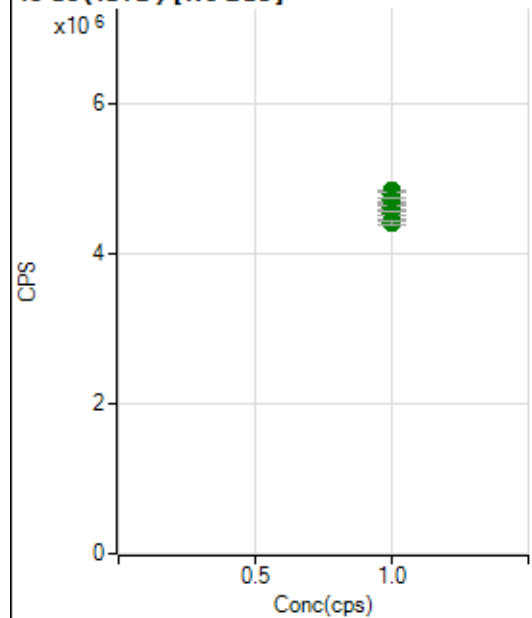
$$BEC = 0.001053$$

Weight: <None>

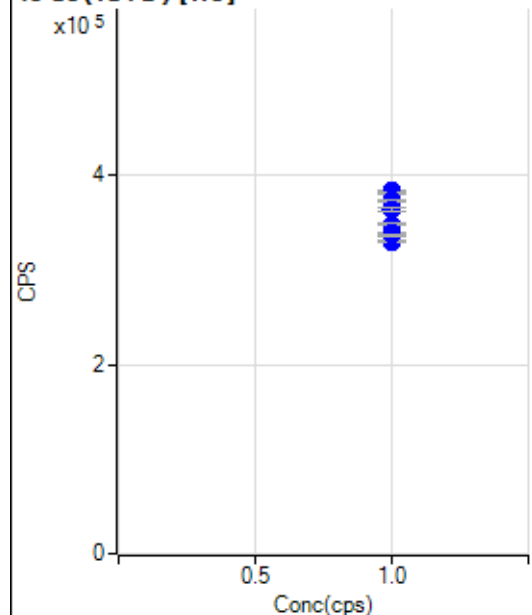
Min Conc: 0

6 Li (ISTD) [No Gas]

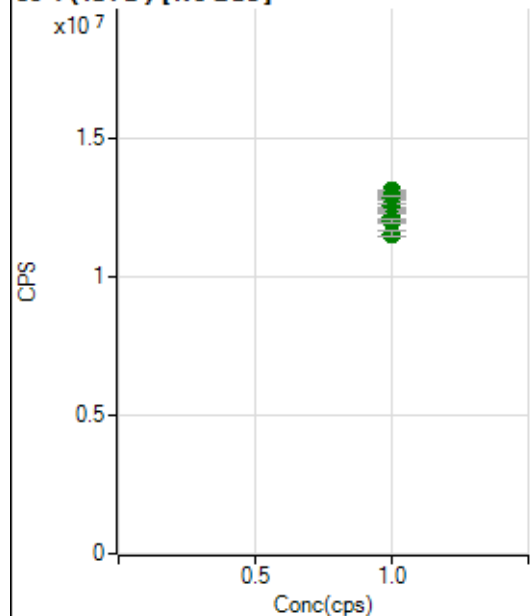
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1353400.13		A	1.1
2	☐	1.000		1347408.11		A	0.6
3	☐	1.000		1350033.12		A	2.0
4	☐	1.000		1404623.23		A	1.0
5	☐	1.000		1468082.25		A	0.7
6	☐	1.000		1520348.74		A	2.4
7	☐	1.000		1476217.76		A	1.4
8	☐	1.000		1472517.86		A	1.7

45 Sc (ISTD) [No Gas]

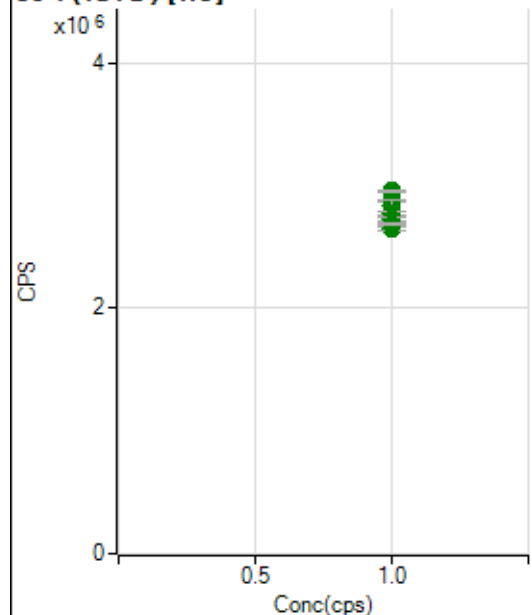
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4834699.16		A	0.6
2	☐	1.000		4781263.71		A	1.9
3	☐	1.000		4710904.16		A	0.9
4	☐	1.000		4705354.55		A	1.2
5	☐	1.000		4611456.11		A	1.5
6	☐	1.000		4536144.86		A	0.7
7	☐	1.000		4436608.09		A	0.5
8	☐	1.000		4406188.41		A	0.7

45 Sc (ISTD) [He]

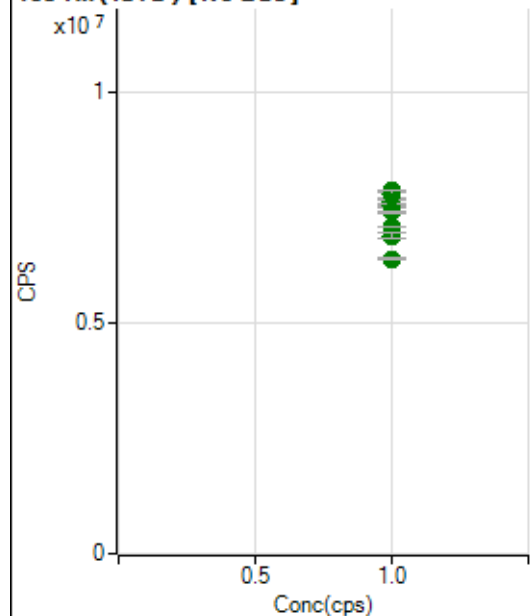
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		383232.17		P	0.6
2	☐	1.000		380958.80		P	0.5
3	☐	1.000		372954.25		P	0.3
4	☐	1.000		363453.08		P	1.0
5	☐	1.000		348320.08		P	0.7
6	☐	1.000		339366.05		P	0.4
7	☐	1.000		329226.07		P	0.7
8	☐	1.000		336727.44		P	0.5

89 Y (ISTD) [No Gas]

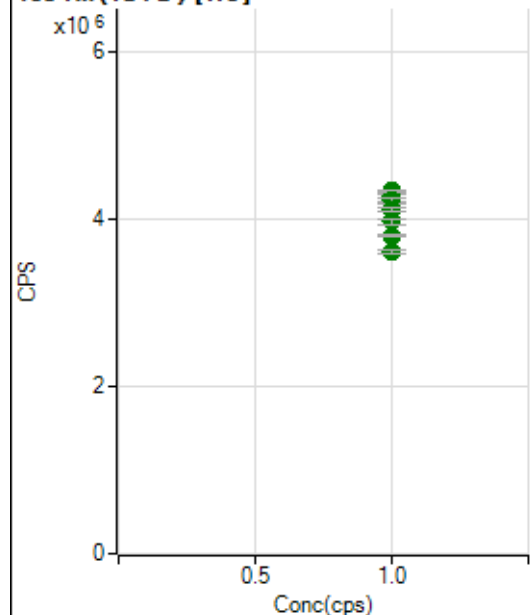
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13130701.33		A	0.8
2	☐	1.000		12935424.95		A	1.3
3	☐	1.000		12853349.95		A	1.2
4	☐	1.000		12595229.39		A	1.0
5	☐	1.000		12408315.93		A	0.7
6	☐	1.000		12166606.21		A	2.1
7	☐	1.000		12026458.01		A	1.4
8	☐	1.000		11579696.22		A	1.5

89 Y(ISTD) [He]

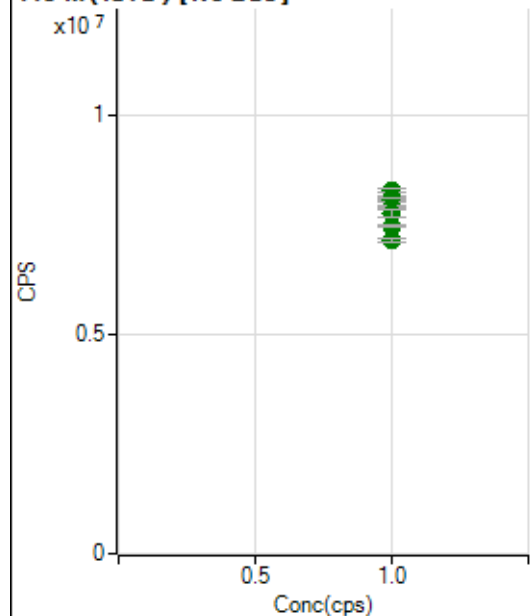
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2881204.58		A	0.4
2	☐	1.000		2957411.00		A	0.6
3	☐	1.000		2866331.73		A	0.3
4	☐	1.000		2837705.37		A	2.8
5	☐	1.000		2773274.40		A	1.3
6	☐	1.000		2730101.38		A	1.5
7	☐	1.000		2651384.44		A	1.0
8	☐	1.000		2686194.61		A	0.9

103 Rh(ISTD) [No Gas]

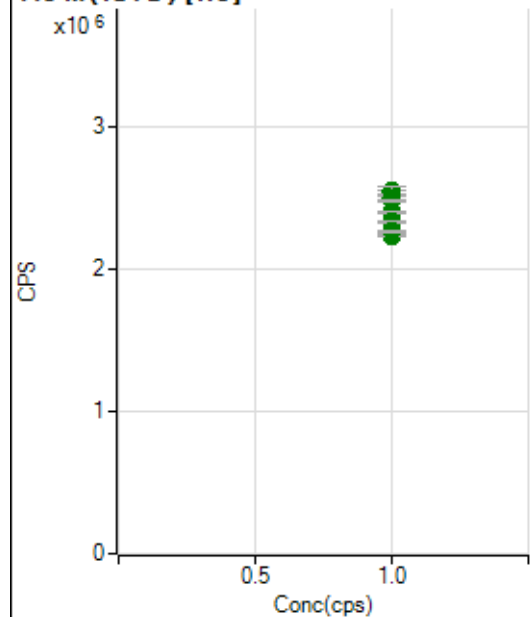
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7874248.49		A	0.4
2	☐	1.000		7800448.50		A	2.5
3	☐	1.000		7634829.33		A	1.6
4	☐	1.000		7550385.37		A	1.1
5	☐	1.000		7415055.03		A	0.8
6	☐	1.000		7097244.82		A	0.3
7	☐	1.000		6892126.15		A	1.9
8	☐	1.000		6406182.41		A	0.8

103 Rh (ISTD) [He]

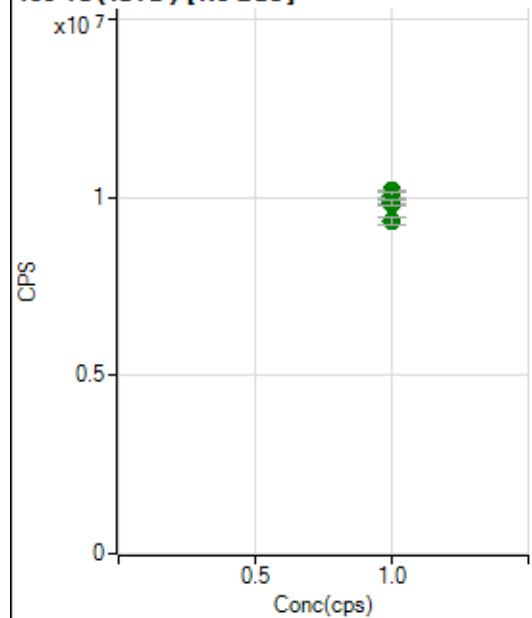
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4280371.71		A	0.9
2	☐	1.000		4343802.71		A	0.8
3	☐	1.000		4243731.88		A	1.0
4	☐	1.000		4226181.02		A	1.9
5	☐	1.000		4121595.36		A	0.6
6	☐	1.000		3974819.73		A	1.5
7	☐	1.000		3804726.75		A	0.8
8	☐	1.000		3620849.36		A	1.2

115 In (ISTD) [No Gas]

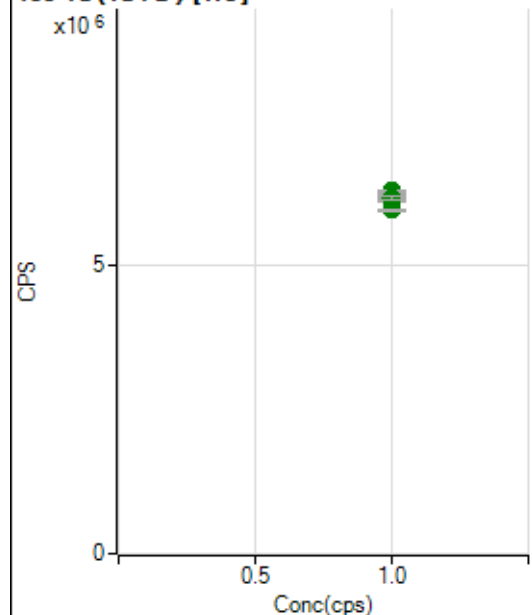
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8287516.94		A	1.0
2	☐	1.000		8132268.64		A	0.7
3	☐	1.000		8107101.28		A	0.5
4	☐	1.000		8077587.89		A	1.3
5	☐	1.000		7924813.98		A	0.2
6	☐	1.000		7789066.65		A	2.4
7	☐	1.000		7475648.07		A	0.6
8	☐	1.000		7160098.99		A	0.9

115 In (ISTD) [He]

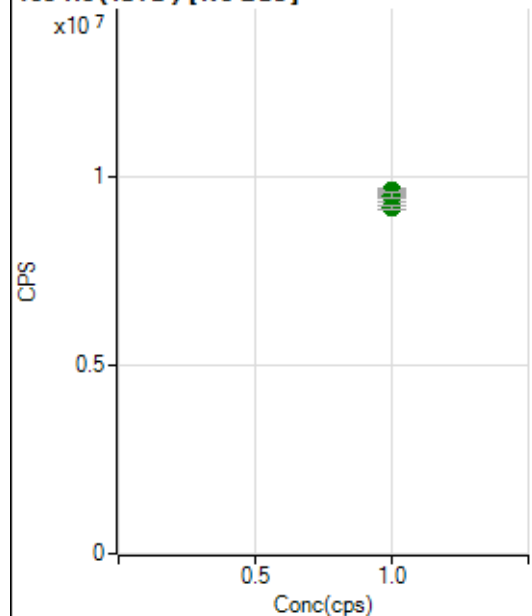
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2538294.93		A	1.4
2	☐	1.000		2553703.21		A	2.1
3	☐	1.000		2499569.56		A	2.0
4	☐	1.000		2484957.31		A	0.2
5	☐	1.000		2407401.36		A	0.7
6	☐	1.000		2338961.20		A	0.6
7	☐	1.000		2239379.69		A	0.9
8	☐	1.000		2268327.42		A	0.5

159 Tb (ISTD) [No Gas]

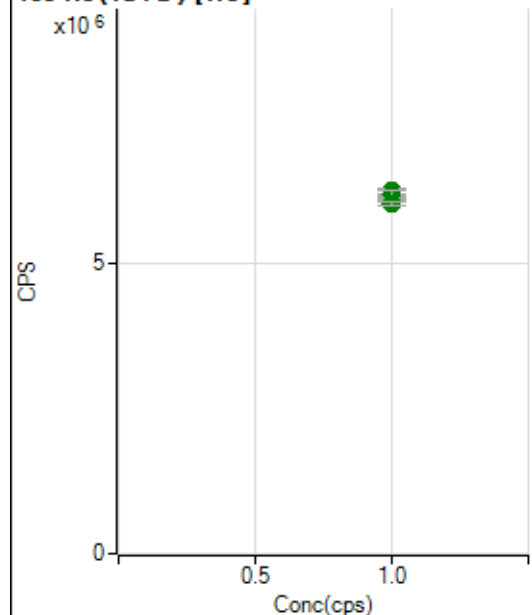
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10187680.33		A	0.7
2	☐	1.000		9903903.46		A	1.2
3	☐	1.000		9978867.49		A	0.7
4	☐	1.000		9936343.88		A	0.5
5	☐	1.000		9944273.95		A	0.7
6	☐	1.000		10064978.81		A	1.3
7	☐	1.000		9852736.10		A	1.3
8	☐	1.000		9353568.40		A	2.4

159 Tb (ISTD) [He]

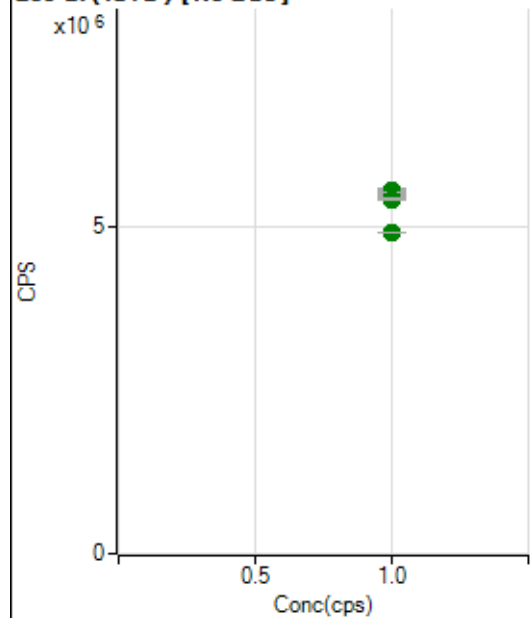
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6249292.34		A	1.6
2	☐	1.000		6191421.44		A	1.2
3	☐	1.000		6180818.80		A	1.1
4	☐	1.000		6281763.86		A	0.7
5	☐	1.000		6174697.48		A	0.8
6	☐	1.000		6111519.21		A	0.9
7	☐	1.000		6162329.56		A	1.1
8	☐	1.000		5944810.75		A	1.0

165 Ho (ISTD) [No Gas]

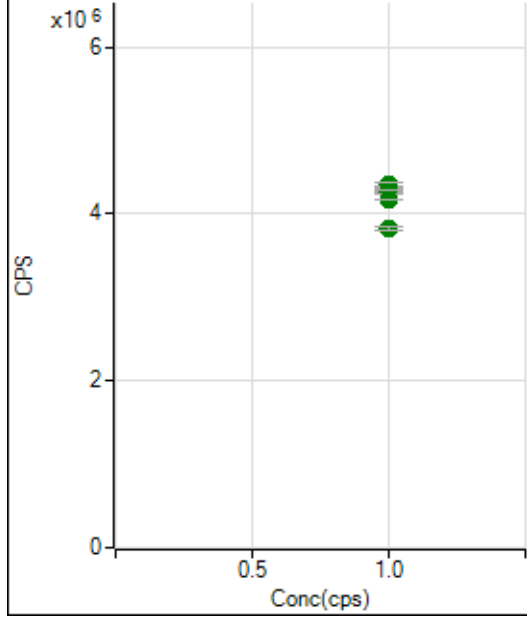
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9514400.34		A	1.6
2	☐	1.000		9521332.91		A	0.8
3	☐	1.000		9500147.64		A	3.5
4	☐	1.000		9623999.92		A	0.2
5	☐	1.000		9574518.68		A	0.3
6	☐	1.000		9607643.81		A	0.5
7	☐	1.000		9510822.77		A	1.6
8	☐	1.000		9189751.04		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6183223.80		A	0.9
2	☐	1.000		6148567.13		A	0.7
3	☐	1.000		6132204.77		A	1.5
4	☐	1.000		6256756.02		A	1.8
5	☐	1.000		6127915.67		A	1.5
6	☐	1.000		6121955.26		A	0.7
7	☐	1.000		6203049.22		A	1.8
8	☐	1.000		6030471.99		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5523227.21		A	0.7
2	☐	1.000		5549845.82		A	1.5
3	☐	1.000		5550941.86		A	1.7
4	☐	1.000		5447818.39		A	1.4
5	☐	1.000		5536137.63		A	1.0
6	☐	1.000		5529567.94		A	0.4
7	☐	1.000		5421685.40		A	0.4
8	☐	1.000		4921899.20		A	0.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4297733.37		A	0.9
2	☐	1.000		4323130.98		A	2.2
3	☐	1.000		4307237.61		A	1.6
4	☐	1.000		4346315.60		A	1.6
5	☐	1.000		4247749.97		A	0.4
6	☐	1.000		4269727.47		A	1.0
7	☐	1.000		4169614.80		A	0.5
8	☐	1.000		3828298.00		A	1.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7082224MS.b

Acq. Date-Time 2024-08-22 09:08:52

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6159	61588.65			0.735	5.000
24		86788	867881.51			0.824	5.000
25		11789	117887.19			0.896	5.000
26		14325	143253.07			0.471	5.000
59		66777	667770.51			0.588	5.000
113		9504	95037.82			0.725	5.000
115		111016	1110163.90			1.083	5.000
206		20174	201736.35			0.630	5.000
207		18043	180432.26			0.575	5.000
208		42866	428660.53			0.455	5.000
220		1	8.30			24.321	

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	6205	6198	6164	6126	6101
24	86380	85847	86850	87717	87146
25	11690	11748	11749	11790	11967
26	14336	14344	14346	14390	14211
59	67107	66975	67044	66581	66177
113	9603	9537	9467	9488	9424
115	112658	111179	110396	111417	109432
206	20389	20187	20110	20106	20076
207	18197	18032	18059	18021	17907
208	42845	42729	43102	42635	43020

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	10333.88	9.00	8.90 - 9.10	
24	153698.73	24.00	23.90 - 24.10	
25	21448.63	25.00	24.90 - 25.10	
26	25116.64	26.00	25.90 - 26.10	
59	112515.07	58.95	58.90 - 59.10	
113	17360.21	113.00	112.90 - 113.10	
115	205330.96	115.00	114.90 - 115.10	
206	38718.17	206.05	205.90 - 206.10	
207	34489.77	207.05	206.90 - 207.10	
208	82710.63	208.05	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.773	0.900	
24	0.60	0.822	0.900	
25	0.58	0.769	0.900	
26	0.58	0.767	0.900	
59	0.62	0.771	0.900	
113	0.55	0.722	0.900	
115	0.54	0.771	0.900	
206	0.53	0.759	0.900	
207	0.52	0.766	0.900	
208	0.53	0.772	0.900	
220	0.21			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.9 V	Deflect	15.8 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2328 V	Pulse HV	1482 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		22449	224488.45			0.583	
89		21829	218288.93			0.335	
205		21198	211979.32			1.092	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	22648	22448	22393	22466	22289
89	21907	21796	21820	21729	21893
205	21488	21009	20992	21098	21402

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2328 V	Pulse HV	1482 V
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