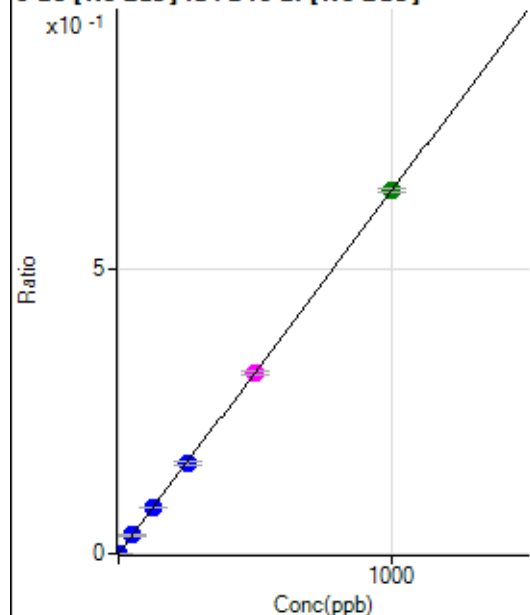


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071424-MSS.b\
 Analysis File: P8071424-MSS.batch.bin
 DA Date-Time: 2024-07-14 23:44:27
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-14 17:51:20
2	005CALS.d	S02	2024-07-14 17:54:41
3	006CALS.d	S03	2024-07-14 17:58:04
4	007CALS.d	S04	2024-07-14 18:01:14
5	008CALS.d	S05	2024-07-14 18:04:17
6	009CALS.d	S06	2024-07-14 18:07:19
7	010CALS.d	S07	2024-07-14 18:10:23
8	011CALS.d	S08	2024-07-14 18:13:25

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	139.98	0.0000	P	4.6
2	☐	1.000	1.019	2191.98	0.0007	P	1.0
3	☐	50.000	50.419	105269.95	0.0322	P	0.9
4	☐	125.000	127.664	260131.11	0.0816	P	3.2
5	☐	250.000	249.070	506320.34	0.1591	P	3.0
6	☐	500.000	499.203	994470.66	0.3188	M	2.7
7	☐	1000.000	1000.277	2017949.50	0.6388	A	1.1
8	☐			1036.17	0.0003	P	40.3

$$y = 6.3860E-004 * x + 4.4169E-005$$

$$R = 1.0000$$

$$DL = 0.009645$$

$$BEC = 0.06917$$

Weight: <None>

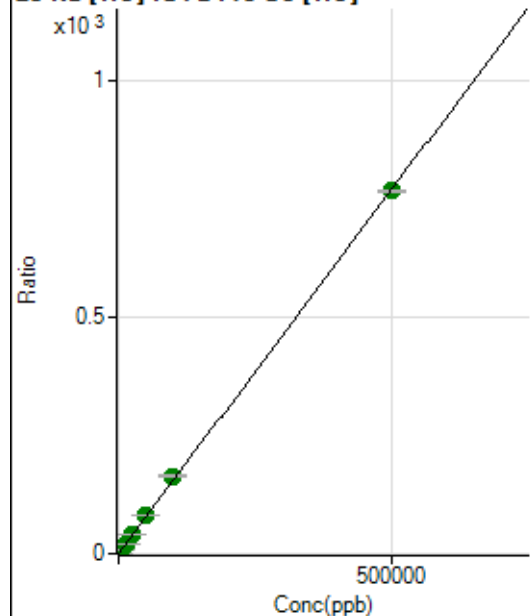
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2969000.30		A	0.4
2	☐			3016147.84		A	0.8
3	☐			3058840.79		A	1.0
4	☐			3002398.71		A	0.7
5	☐			3152475.13		A	0.7
6	☐			3345109.57		A	1.5
7	☐			4359027.85		A	3.4
8	☐			3347424.95		A	0.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34305.57		P	0.3
2	☐			35082.97		P	1.1
3	☐			34878.02		P	0.2
4	☐			35540.71		P	1.1
5	☐			37634.81		P	0.7
6	☐			42431.12		P	1.0
7	☐			55717.24		P	1.1
8	☐			45905.96		P	0.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27646.24	0.1469	P	2.2
2	☐	500.000	513.339	178894.82	0.9383	P	1.0
3	☐	5000.000	5462.992	1635919.02	8.5685	A	2.6
4	☐	12500.000	13380.222	3962316.40	20.7733	A	0.5
5	☐	25000.000	26555.001	7851305.92	41.0830	A	1.2
6	☐	50000.000	52920.697	15844417.27	81.7272	A	0.3
7	☐	100000.00	106496.32	31960615.63	164.3170	A	2.0
8	☐	500000.00	498304.26	147659746.6	768.3109	A	0.7

$$y = 0.0015 * x + 0.1469$$

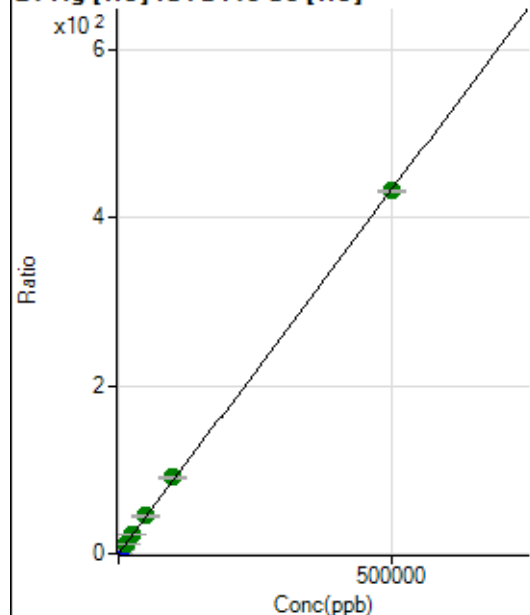
$$R = 0.9999$$

$$DL = 6.172$$

$$BEC = 95.32$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1302.29	0.0069	P	4.7
2	☐	500.000	521.476	87536.68	0.4590	P	1.5
3	☐	5000.000	5432.674	900738.89	4.7170	P	1.4
4	☐	12500.000	13451.315	2225792.55	11.6692	A	0.4
5	☐	25000.000	26494.780	4391405.94	22.9779	A	0.4
6	☐	50000.000	51582.525	8671625.29	44.7289	A	1.0
7	☐	100000.00	104977.21	17704639.88	91.0221	A	1.3
8	☐	500000.00	498743.43	83109695.43	432.4170	A	0.8

$$y = 8.6700\text{E-}004 * x + 0.0069$$

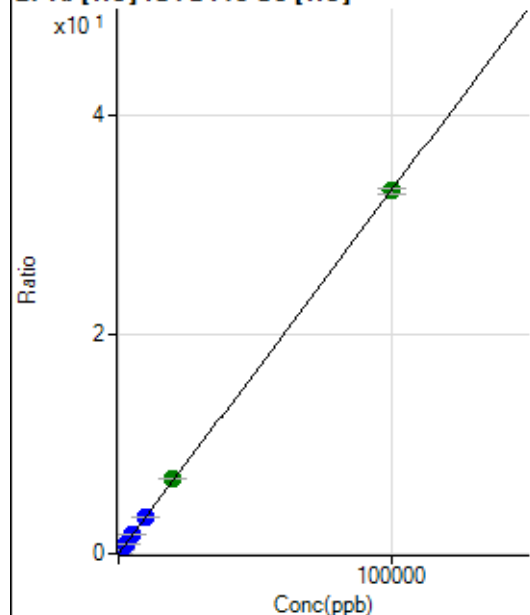
$$R = 0.9999$$

$$DL = 1.134$$

$$BEC = 7.982$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0008	P	20.9
2	☐	20.000	21.221	1490.09	0.0078	P	5.7
3	☐	1000.000	1049.815	66607.24	0.3489	P	2.3
4	☐	2500.000	2560.701	162096.54	0.8498	P	0.7
5	☐	5000.000	5161.839	327234.05	1.7123	P	0.3
6	☐	10000.000	10102.990	649558.92	3.3506	P	1.2
7	☐	20000.000	20651.502	1331920.19	6.8481	A	2.1
8	☐	100000.00	99849.293	6363356.57	33.1075	A	1.4

$$y = 3.3157\text{E-}004 * x + 7.7874\text{E-}004$$

$$R = 1.0000$$

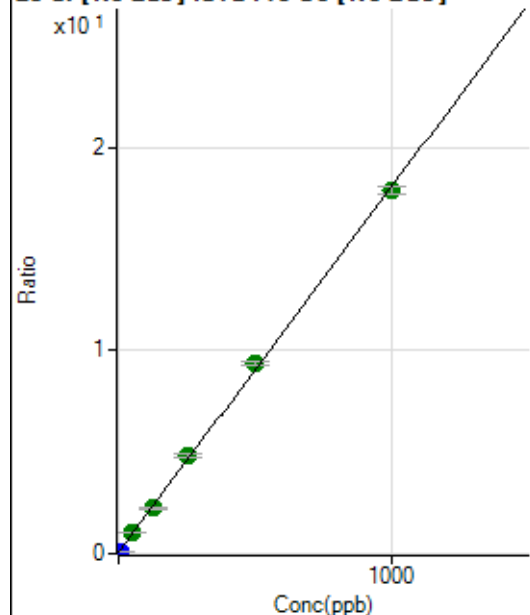
$$DL = 1.473$$

$$BEC = 2.349$$

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	368787.85	0.0687	P	1.6
2	☐	10.000	0.245	399942.21	0.0731	P	1.2
3	☐	50.000	52.972	5769429.98	1.0213	A	2.7
4	☐	125.000	120.575	12419284.68	2.2371	A	1.8
5	☐	250.000	263.910	26710735.99	4.8148	A	2.7
6	☐	500.000	516.526	52282041.44	9.3578	A	1.8
7	☐	1000.000	988.761	101045404.0	17.8505	A	2.2
8	☐			942860.76	0.1786	P	1.8

$$y = 0.0180 * x + 0.0687$$

$$R = 0.9996$$

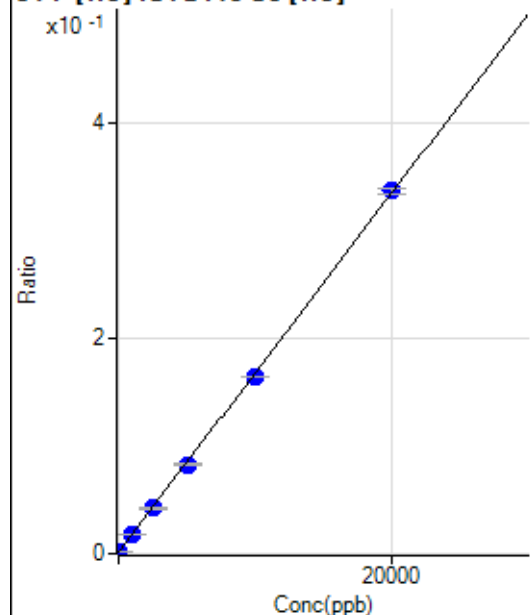
$$DL = 0.189$$

$$BEC = 3.82$$

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	-12.539	204.45	0.0011	P	10.5
2	☐	0.000	12.539	286.67	0.0015	P	13.7
3	☐	1000.000	979.768	3369.32	0.0176	P	1.8
4	☐	2500.000	2477.055	8132.35	0.0426	P	3.0
5	☐	5000.000	4898.886	15871.04	0.0830	P	0.4
6	☐	10000.000	9779.984	31890.59	0.1645	P	1.0
7	☐	20000.000	20139.166	65614.34	0.3374	P	1.5
8	☐			194.45	0.0010	P	17.3

$$y = 1.6688E-005 * x + 0.0013$$

$$R = 0.9999$$

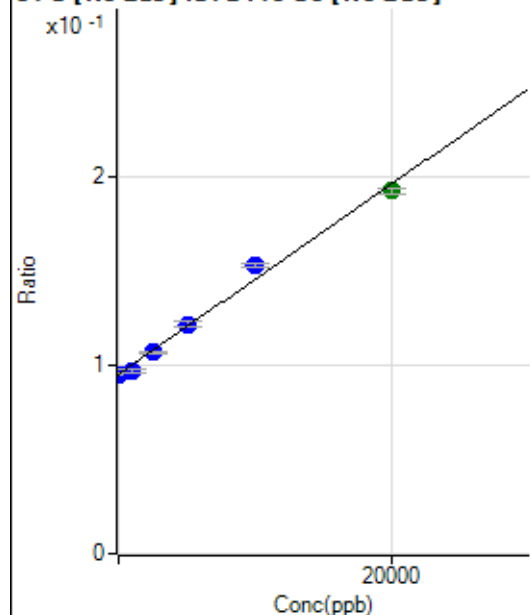
$$DL = 28.73$$

$$BEC = 77.67$$

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	8.913	511108.71	0.0952	P	1.5
2	☐	0.000	-8.913	520396.12	0.0951	P	1.0
3	☐	1000.000	363.113	547923.48	0.0970	P	1.9
4	☐	2500.000	2291.602	592323.55	0.1067	P	0.6
5	☐	5000.000	5271.370	675313.61	0.1217	P	2.4
6	☐	10000.000	11460.638	854408.75	0.1529	P	1.7
7	☐	20000.000	19259.732	1088351.43	0.1923	A	1.8
8	☐			442102.46	0.0838	P	1.9

$$y = 5.0415E-006 * x + 0.0952$$

$$R = 0.9950$$

$$DL = 710.4$$

$$BEC = 1.887E+04$$

Weight: <None>

Min Conc: 0

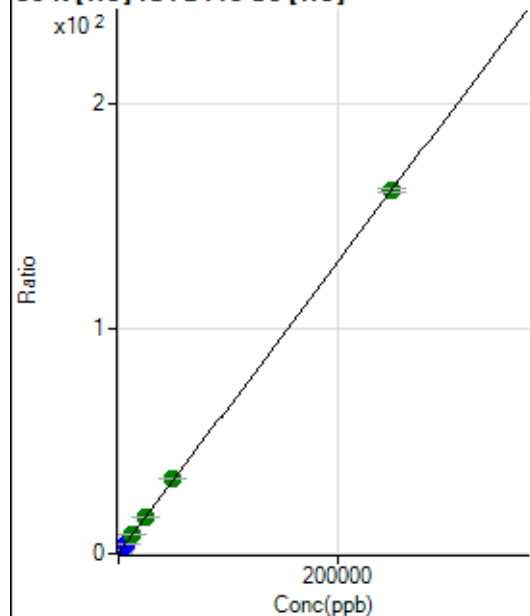
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			98013.05		P	0.8
2	☐			103320.78		P	0.6
3	☐			105399.85		P	0.7
4	☐			102692.97		P	0.7
5	☐			108164.45		P	0.5
6	☐			116203.98		P	1.3
7	☐			140353.02		P	2.4
8	☐			121502.29		P	1.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			716.69		P	10.2
2	☐			744.47		P	10.4
3	☐			742.25		P	7.3
4	☐			714.47		P	8.2
5	☐			787.81		P	6.0
6	☐			877.82		P	4.3
7	☐			998.93		P	2.2
8	☐			892.26		P	5.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23075.22	0.1226	P	1.1
2	☐	500.000	481.989	82732.04	0.4339	P	0.9
3	☐	2500.000	2512.527	333272.75	1.7453	P	1.0
4	☐	6250.000	6296.124	798937.69	4.1887	P	0.2
5	☐	12500.000	12864.594	1611312.29	8.4307	A	0.4
6	☐	25000.000	25368.479	3199756.69	16.5058	A	1.1
7	☐	50000.000	51542.211	6497935.46	33.4090	A	0.7
8	☐	250000.00	249635.23	31009377.59	161.3390	A	1.0

$$y = 6.4581E-004 * x + 0.1226$$

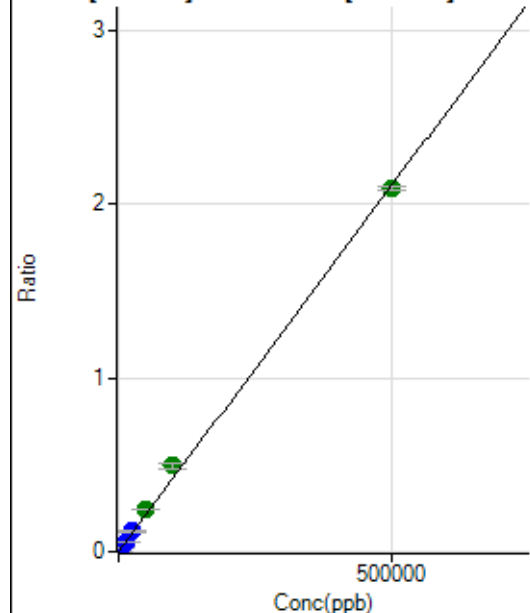
$$R = 1.0000$$

$$DL = 6.442$$

$$BEC = 189.9$$

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	440.01	0.0001	P	11.4
2	☐	500.000	482.540	11568.07	0.0021	P	2.5
3	☐	5000.000	5484.185	130942.07	0.0232	P	1.6
4	☐	12500.000	13863.153	324521.42	0.0585	P	1.2
5	☐	25000.000	27583.436	644713.99	0.1162	P	4.2
6	☐	50000.000	57779.928	1359682.41	0.2434	A	2.5
7	☐	100000.00	117123.10	2790674.61	0.4933	A	5.1
8	☐	500000.00	495629.31	11019429.84	2.0872	A	1.2

$$y = 4.2111\text{E-}006 * x + 8.2016\text{E-}005$$

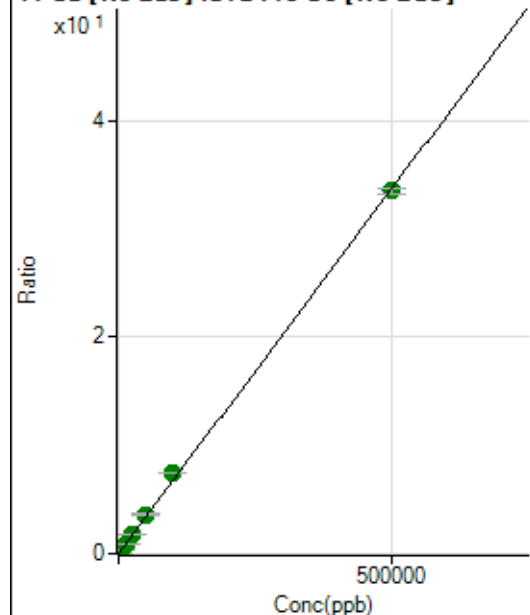
$$R = 0.9993$$

$$DL = 6.65$$

$$BEC = 19.48$$

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	13846.87	0.0026	P	1.9
2	☐	500.000	484.472	192572.47	0.0352	P	1.7
3	☐	5000.000	5410.094	2072595.68	0.3668	A	1.8
4	☐	12500.000	13539.256	5074136.28	0.9142	A	1.4
5	☐	25000.000	26985.349	10092552.14	1.8195	A	3.7
6	☐	50000.000	53725.058	20224144.00	3.6198	A	2.8
7	☐	100000.00	110301.66	42057242.71	7.4291	A	1.6
8	☐	500000.00	497437.82	176811115.1	33.4945	A	1.9

$$y = 6.7329\text{E-}005 * x + 0.0026$$

$$R = 0.9998$$

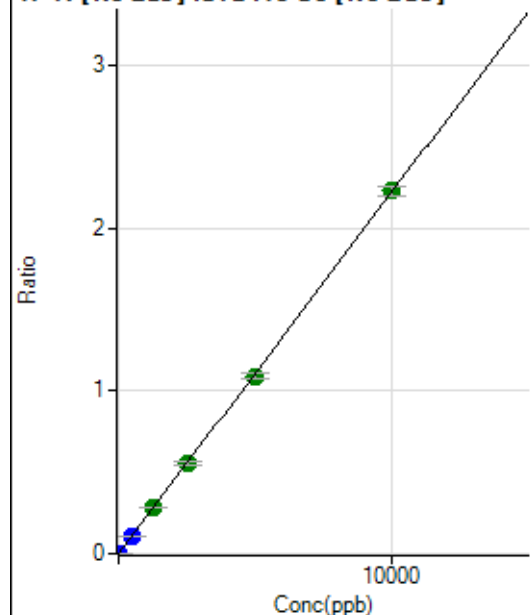
$$DL = 2.156$$

$$BEC = 38.31$$

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	115.56	0.0000	P	10.9
2	☐	5.000	4.468	5545.58	0.0010	P	1.8
3	☐	500.000	488.870	613356.07	0.1086	P	1.6
4	☐	1250.000	1268.593	1563523.19	0.2817	A	2.4
5	☐	2500.000	2479.893	3054270.27	0.5506	A	4.6
6	☐	5000.000	4918.356	6100615.88	1.0920	A	2.7
7	☐	10000.000	10044.081	12621780.65	2.2301	A	2.9
8	☐			5048.29	0.0009	P	54.9

$$y = 2.2203\text{E-}004 * x + 2.1510\text{E-}005$$

$$R = 0.9999$$

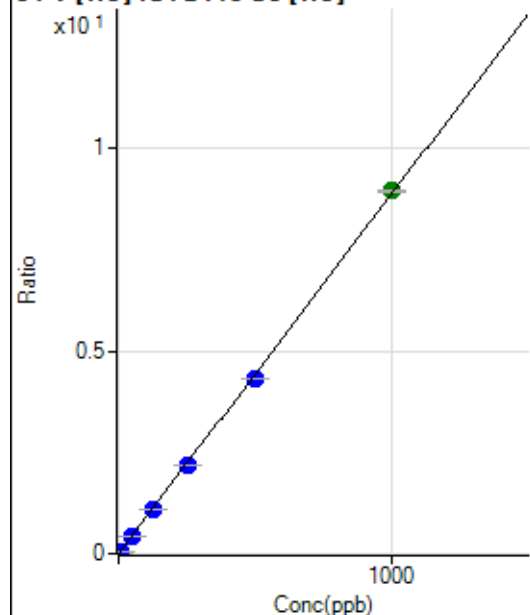
$$DL = 0.03175$$

$$BEC = 0.09688$$

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	12.22	0.0001	P	31.6
2	☐	5.000	4.833	8190.18	0.0429	P	2.9
3	☐	50.000	48.933	82907.27	0.4342	P	2.2
4	☐	125.000	121.819	206164.56	1.0809	P	0.6
5	☐	250.000	245.311	415986.79	2.1767	P	0.3
6	☐	500.000	485.631	835362.76	4.3090	P	0.6
7	☐	1000.000	1008.809	1741034.43	8.9511	A	0.7
8	☐			1092.28	0.0057	P	33.4

$$y = 0.0089 * x + 6.4976\text{E-}005$$

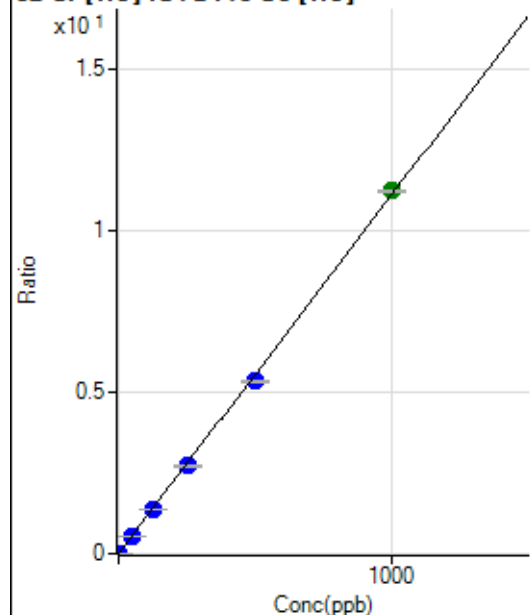
$$R = 0.9998$$

$$DL = 0.006942$$

$$BEC = 0.007323$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	778.92	0.0041	P	9.6
2	☐	2.000	1.861	4729.72	0.0248	P	2.4
3	☐	50.000	48.604	103834.90	0.5437	P	1.4
4	☐	125.000	121.809	258735.58	1.3564	P	1.0
5	☐	250.000	243.989	518457.16	2.7128	P	1.1
6	☐	500.000	480.321	1034518.93	5.3365	P	1.1
7	☐	1000.000	1011.812	2185599.34	11.2370	A	0.6
8	☐			18747.94	0.0975	P	2.9

$$y = 0.0111 * x + 0.0041$$

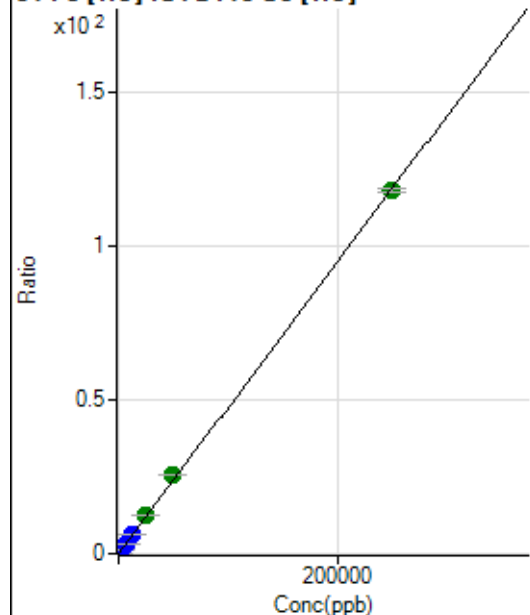
$$R = 0.9997$$

$$DL = 0.1069$$

$$BEC = 0.3731$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.67	0.0018	P	9.7
2	☐	50.000	54.244	5236.57	0.0275	P	2.3
3	☐	2500.000	2681.692	242751.43	1.2713	P	1.5
4	☐	6250.000	6722.049	607303.23	3.1840	P	0.8
5	☐	12500.000	13392.538	1212004.77	6.3417	P	0.8
6	☐	25000.000	26686.611	2449417.05	12.6350	A	0.9
7	☐	50000.000	53740.593	4948859.44	25.4422	A	0.9
8	☐	250000.00	249024.97	22656716.61	117.8884	A	1.0

$$y = 4.7339E-004 * x + 0.0018$$

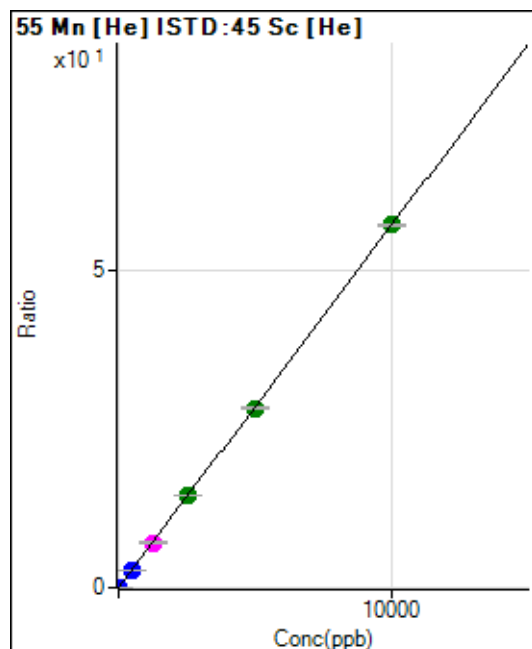
$$R = 0.9999$$

$$DL = 1.1$$

$$BEC = 3.779$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0007	P	17.6
2	☐	1.000	0.920	1140.06	0.0060	P	9.8
3	☐	500.000	498.272	544753.66	2.8527	P	0.8
4	☐	1250.000	1243.748	1358149.49	7.1197	M	1.8
5	☐	2500.000	2550.707	2790171.42	14.6004	A	1.7
6	☐	5000.000	4953.856	5496957.00	28.3555	A	1.1
7	☐	10000.000	10011.263	11145276.50	57.3031	A	0.7
8	☐			9061.00	0.0471	P	27.3

$$y = 0.0057 * x + 7.0870E-004$$

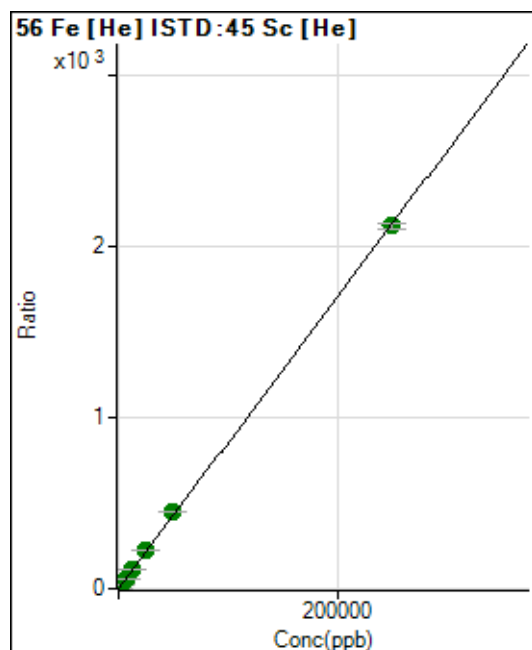
$$R = 1.0000$$

$$DL = 0.06532$$

$$BEC = 0.1238$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4046.56	0.0215	P	10.2
2	☐	50.000	52.506	89169.91	0.4677	P	2.1
3	☐	2500.000	2654.815	4312350.80	22.5831	A	1.1
4	☐	6250.000	6636.431	10761585.95	56.4203	A	0.3
5	☐	12500.000	13373.513	21725420.23	113.6746	A	0.9
6	☐	25000.000	26299.690	43334138.24	223.5260	A	0.6
7	☐	50000.000	53350.159	88192185.35	453.4108	A	0.4
8	☐	250000.00	249145.11	406934873.9	2,117.348	A	1.4

$$y = 0.0085 * x + 0.0215$$

$$R = 0.9999$$

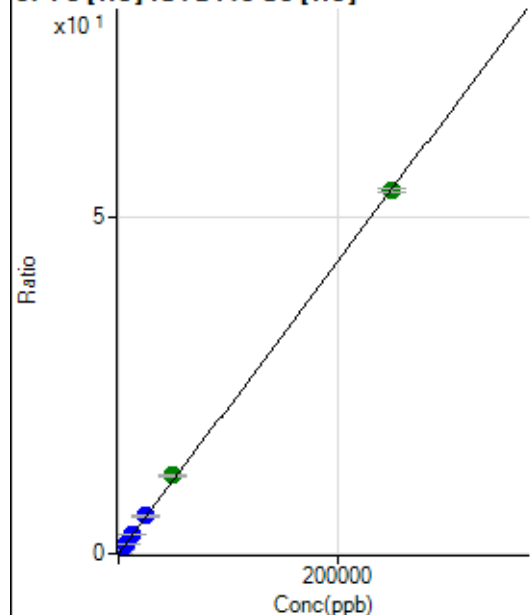
$$DL = 0.774$$

$$BEC = 2.531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	281.12	0.0015	P	4.9
2	☐	50.000	52.775	2465.80	0.0129	P	2.5
3	☐	2500.000	2628.513	109073.78	0.5712	P	1.0
4	☐	6250.000	6541.084	270686.16	1.4192	P	0.5
5	☐	12500.000	13102.433	543015.58	2.8413	P	0.9
6	☐	25000.000	25762.167	1082742.37	5.5851	P	0.8
7	☐	50000.000	53720.744	2264878.84	11.6447	A	1.5
8	☐	250000.00	249140.95	10378423.94	53.9992	A	1.1

$$y = 2.1674\text{E-}004 * x + 0.0015$$

$$R = 0.9999$$

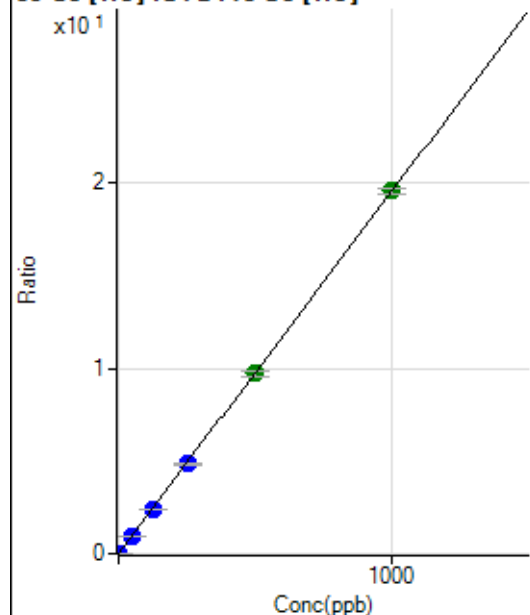
$$DL = 1.008$$

$$BEC = 6.892$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	144.45	0.0008	P	32.3
2	☐	1.000	1.027	3972.82	0.0208	P	4.5
3	☐	50.000	49.560	185214.64	0.9698	P	0.2
4	☐	125.000	123.955	462478.56	2.4245	P	1.3
5	☐	250.000	247.631	925566.77	4.8428	P	0.9
6	☐	500.000	497.074	1884240.06	9.7202	A	2.4
7	☐	1000.000	1002.208	3811794.11	19.5973	A	1.5
8	☐			10035.88	0.0522	P	8.0

$$y = 0.0196 * x + 7.6713\text{E-}004$$

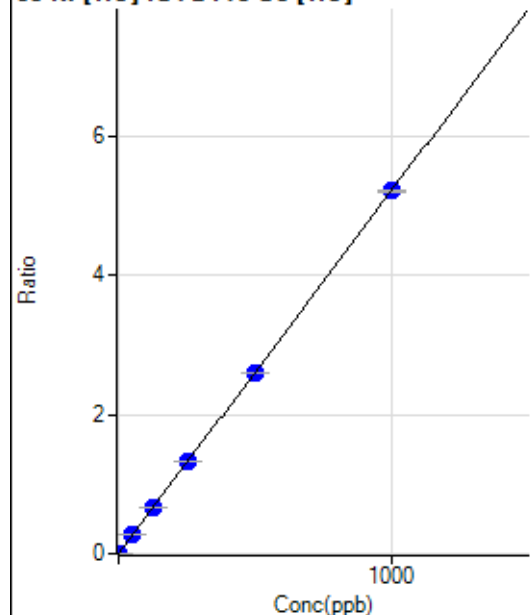
$$R = 1.0000$$

$$DL = 0.03807$$

$$BEC = 0.03923$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	216.67	0.0012	P	6.1
2	☐	1.000	1.019	1233.40	0.0065	P	5.0
3	☐	50.000	51.714	51752.62	0.2710	P	1.4
4	☐	125.000	129.095	128720.42	0.6748	P	0.5
5	☐	250.000	254.318	253844.36	1.3283	P	1.2
6	☐	500.000	497.689	503744.90	2.5984	P	0.4
7	☐	1000.000	999.478	1014750.38	5.2170	P	0.7
8	☐			7473.15	0.0389	P	3.1

$$y = 0.0052 * x + 0.0012$$

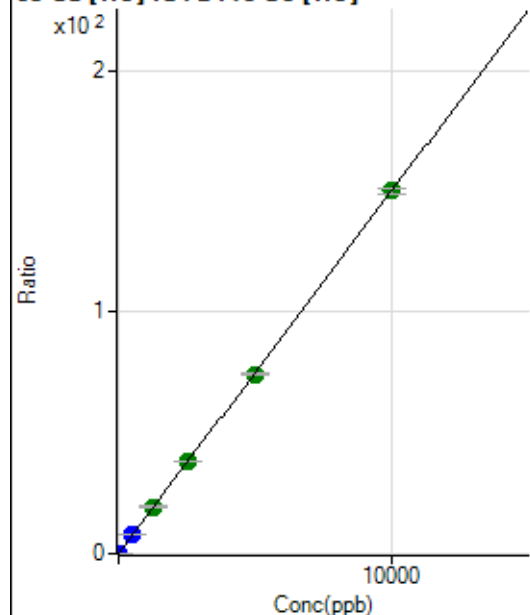
$$R = 1.0000$$

$$DL = 0.0407$$

$$BEC = 0.2207$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1804.58	0.0096	P	2.8
2	☐	2.000	1.979	7487.60	0.0393	P	1.5
3	☐	500.000	510.460	1463661.23	7.6645	P	1.0
4	☐	1250.000	1294.934	3705670.81	19.4286	A	1.0
5	☐	2500.000	2543.692	7291212.67	38.1552	A	1.9
6	☐	5000.000	4953.737	14403572.84	74.2967	A	0.5
7	☐	10000.000	10006.068	29188638.73	150.0622	A	1.5
8	☐			12922.13	0.0671	P	46.1

$$y = 0.0150 * x + 0.0096$$

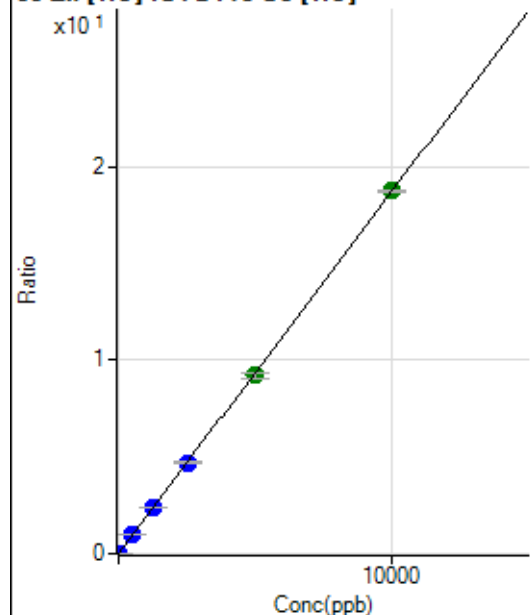
$$R = 1.0000$$

$$DL = 0.05308$$

$$BEC = 0.6396$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	693.36	0.0037	P	5.3
2	☐	2.000	4.568	2331.33	0.0122	P	4.2
3	☐	500.000	510.791	183181.14	0.9593	P	1.4
4	☐	1250.000	1258.545	449796.89	2.3583	P	0.6
5	☐	2500.000	2511.634	898679.85	4.7026	P	1.1
6	☐	5000.000	4927.117	1787521.21	9.2217	A	2.8
7	☐	10000.000	10031.925	3651203.31	18.7722	A	0.5
8	☐			1767.93	0.0092	P	43.4

$$y = 0.0019 * x + 0.0037$$

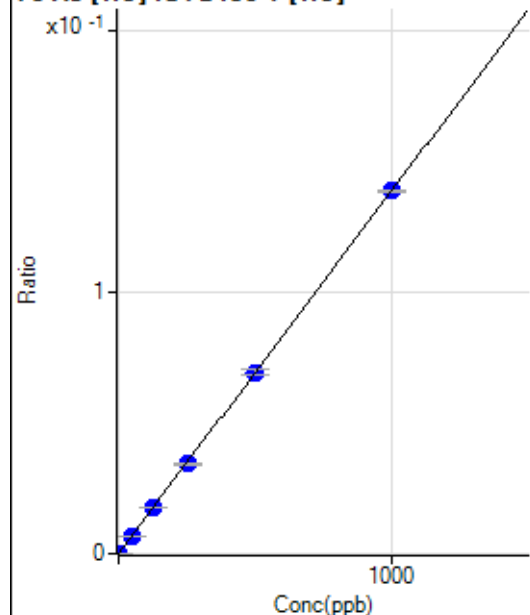
$$R = 1.0000$$

$$DL = 0.3127$$

$$BEC = 1.969$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.44	0.0000	P	115.3
2	☐	1.000	1.209	246.67	0.0002	P	7.9
3	☐	50.000	49.061	9871.34	0.0068	P	4.4
4	☐	125.000	125.943	25420.78	0.0175	P	1.4
5	☐	250.000	246.664	50345.09	0.0342	P	1.3
6	☐	500.000	500.871	101898.80	0.0695	P	2.4
7	☐	1000.000	1000.327	207266.34	0.1388	P	0.8
8	☐			223.34	0.0001	P	18.4

$$y = 1.3876E-004 * x + 3.1832E-006$$

$$R = 1.0000$$

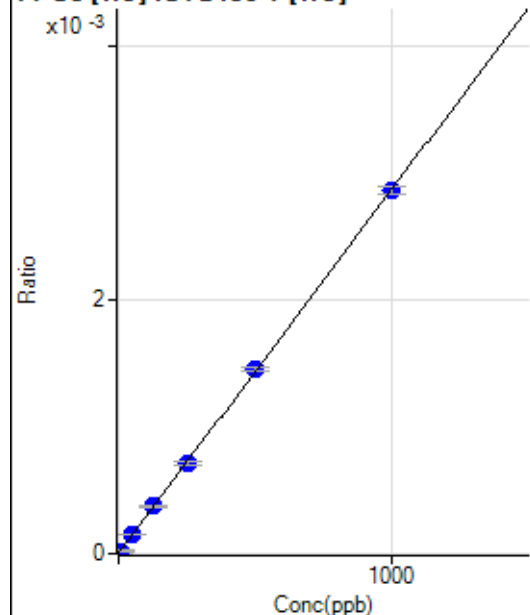
$$DL = 0.07938$$

$$BEC = 0.02294$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	5.000	5.896	27.78	0.0000	P	48.9
3	☐	50.000	50.871	214.45	0.0001	P	2.8
4	☐	125.000	130.269	545.57	0.0004	P	4.8
5	☐	250.000	246.239	1040.05	0.0007	P	3.8
6	☐	500.000	506.945	2131.29	0.0015	P	1.7
7	☐	1000.000	996.761	4262.91	0.0029	P	2.2
8	☐			4.45	0.0000	P	86.6

$$y = 2.8616\text{E-}006 * x + 2.4071\text{E-}006$$

$$R = 0.9999$$

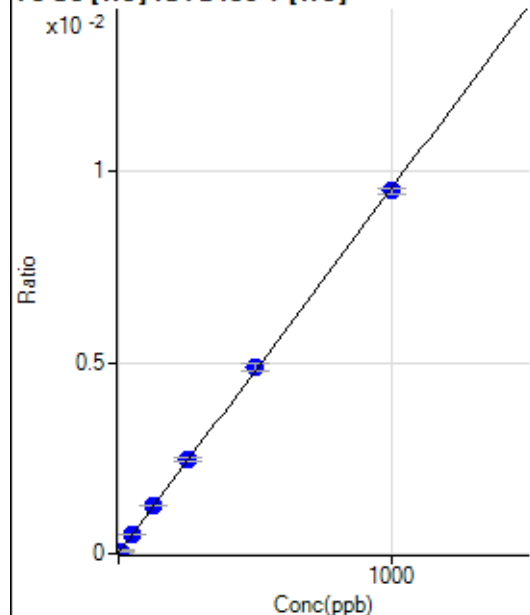
$$DL = 4.371$$

$$BEC = 0.8412$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.89	0.0000	P	20.9
2	☐	5.000	5.924	101.11	0.0001	P	21.5
3	☐	50.000	51.775	736.69	0.0005	P	6.8
4	☐	125.000	130.451	1832.36	0.0013	P	1.2
5	☐	250.000	256.511	3621.62	0.0025	P	5.2
6	☐	500.000	508.900	7146.33	0.0049	P	4.0
7	☐	1000.000	993.148	14189.49	0.0095	P	1.3
8	☐			34.44	0.0000	P	34.0

$$y = 9.5537\text{E-}006 * x + 1.3533\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.8887$$

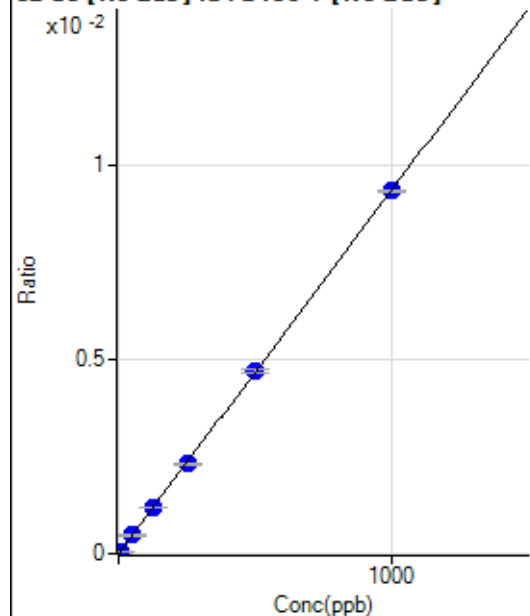
$$BEC = 1.417$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4347.39		P	1.5
2	☐			4349.61		P	3.9
3	☐			4165.11		P	1.0
4	☐			4351.83		P	2.5
5	☐			4291.82		P	0.4
6	☐			4105.09		P	2.0
7	☐			4428.53		P	3.5
8	☐			4624.14		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-28.89	0.0000	P	-237.
2	☐	5.000	5.125	596.70	0.0000	P	19.4
3	☐	50.000	50.789	6397.20	0.0005	P	5.1
4	☐	125.000	125.959	15738.14	0.0012	P	2.3
5	☐	250.000	247.958	31295.58	0.0023	P	2.5
6	☐	500.000	503.433	63113.80	0.0047	P	1.4
7	☐	1000.000	998.634	127231.30	0.0094	P	0.8
8	☐			40.00	0.0000	P	64.9

$$y = 9.3756E-006 * x - 2.2514E-006$$

$$R = 1.0000$$

$$DL = 1.709$$

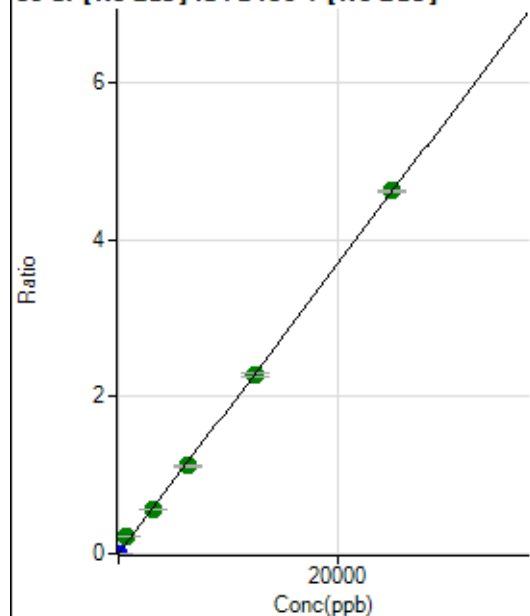
$$BEC = -0.2401$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			296.67		P	11.7
2	☐			306.67		P	11.0
3	☐			251.12		P	10.8
4	☐			285.56		P	13.8
5	☐			283.34		P	10.8
6	☐			284.45		P	8.8
7	☐			285.56		P	11.9
8	☐			302.23		P	9.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	524.46	0.0000	P	1.4
2	☐	1.000	1.013	2964.78	0.0002	P	1.1
3	☐	625.000	1222.969	3041242.25	0.2252	A	2.6
4	☐	3125.000	3059.093	7522754.82	0.5633	A	1.0
5	☐	6250.000	6069.447	15060501.02	1.1177	A	1.5
6	☐	12500.000	12355.736	30441901.49	2.2752	A	1.6
7	☐	25000.000	25110.559	62851796.29	4.6238	A	0.5
8	☐			27763.76	0.0021	P	48.7

$$y = 1.8414E-004 * x + 4.1117E-005$$

$$R = 0.9996$$

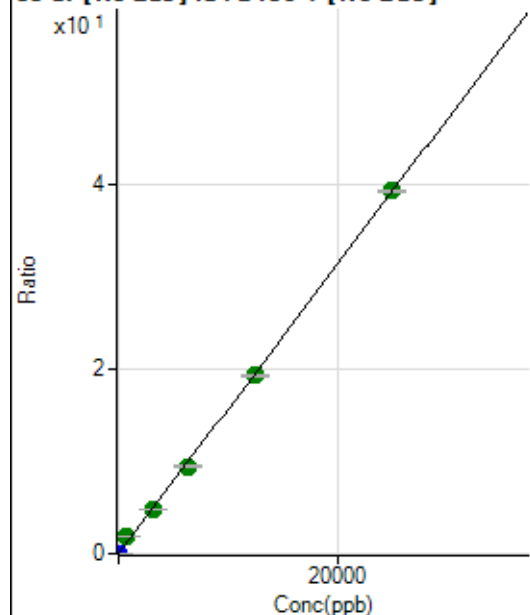
$$DL = 0.009239$$

$$BEC = 0.2233$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	950.05	0.0001	P	24.3
2	☐	1.000	0.970	20742.15	0.0016	P	1.0
3	☐	625.000	1222.690	25850863.50	1.9145	A	2.7
4	☐	3125.000	3080.263	64400158.48	4.8230	A	1.8
5	☐	6250.000	6045.319	127549252.5	9.4656	A	1.0
6	☐	12500.000	12361.540	258958518.3	19.3553	A	1.1
7	☐	25000.000	25111.050	534500263.1	39.3180	A	0.7
8	☐			229240.22	0.0177	P	50.0

$$y = 0.0016 * x + 7.4404E-005$$

$$R = 0.9996$$

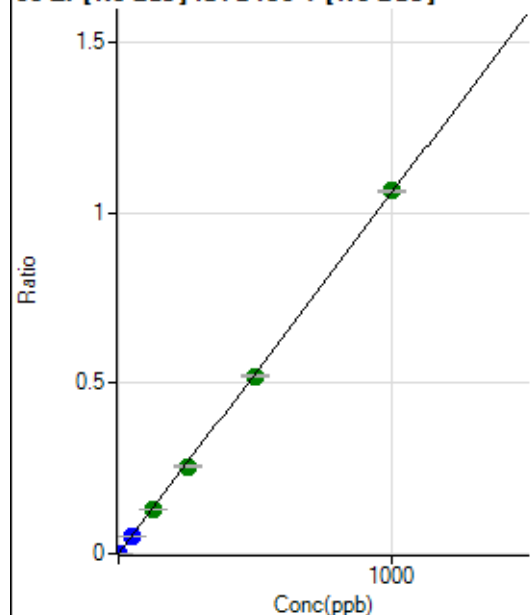
$$DL = 0.03466$$

$$BEC = 0.04752$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	568.91	0.0000	P	6.7
2	☐	1.000	0.836	12083.22	0.0009	P	2.5
3	☐	50.000	47.560	679361.48	0.0503	P	2.0
4	☐	125.000	122.431	1728322.21	0.1294	A	1.5
5	☐	250.000	242.234	3450102.17	0.2560	A	2.3
6	☐	500.000	492.895	6970704.06	0.5209	A	0.9
7	☐	1000.000	1005.937	14452434.78	1.0631	A	0.5
8	☐			11321.17	0.0009	P	27.9

$$y = 0.0011 * x + 4.4626E-005$$

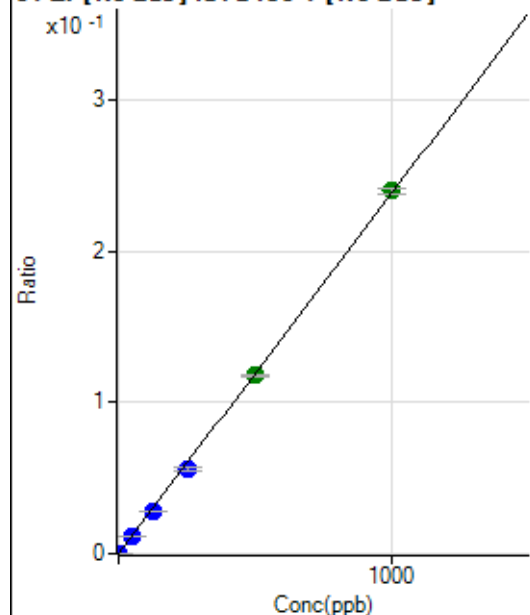
$$R = 0.9999$$

$$DL = 0.008469$$

$$BEC = 0.04223$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	101.11	0.0000	P	9.8
2	☐	1.000	0.861	2772.55	0.0002	P	3.7
3	☐	50.000	46.880	150885.71	0.0112	P	2.0
4	☐	125.000	118.106	375734.99	0.0281	P	1.3
5	☐	250.000	234.903	753981.00	0.0560	P	2.8
6	☐	500.000	495.473	1579242.94	0.1180	A	1.3
7	☐	1000.000	1007.056	3260220.40	0.2399	A	1.3
8	☐			2542.52	0.0002	P	28.6

$$y = 2.3818\text{E-}004 * x + 7.9229\text{E-}006$$

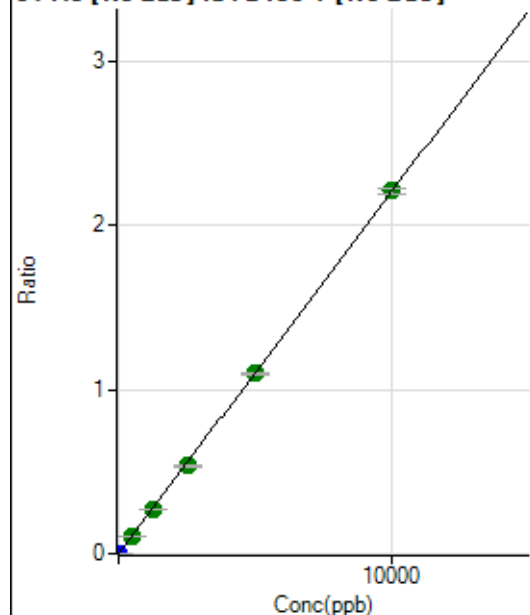
$$R = 0.9999$$

$$DL = 0.009782$$

$$BEC = 0.03326$$

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	205.56	0.0000	P	10.3
2	☐	5.000	5.134	14948.16	0.0011	P	3.3
3	☐	500.000	493.858	1470599.56	0.1089	A	1.6
4	☐	1250.000	1237.682	3643994.42	0.2729	A	0.8
5	☐	2500.000	2428.421	7214250.45	0.5354	A	2.1
6	☐	5000.000	4975.461	14677446.03	1.0969	A	0.2
7	☐	10000.000	10032.011	30060377.88	2.2117	A	1.5
8	☐			17492.38	0.0014	P	36.3

$$y = 2.2047\text{E-}004 * x + 1.6121\text{E-}005$$

$$R = 1.0000$$

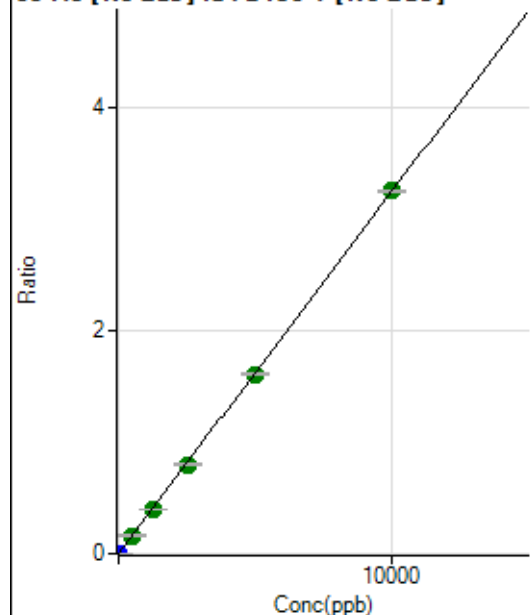
$$DL = 0.02257$$

$$BEC = 0.07312$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.44	0.0000	P	2.1
2	☐	5.000	4.260	18051.81	0.0014	P	0.2
3	☐	500.000	500.164	2188510.99	0.1621	A	3.0
4	☐	1250.000	1227.873	5313511.14	0.3979	A	1.9
5	☐	2500.000	2457.904	10733095.74	0.7965	A	1.9
6	☐	5000.000	4963.985	21522077.74	1.6087	A	0.9
7	☐	10000.000	10031.290	44186379.34	3.2508	A	0.7
8	☐			23496.05	0.0018	P	38.8

$$y = 3.2407\text{E-}004 * x + 5.8358\text{E-}006$$

$$R = 1.0000$$

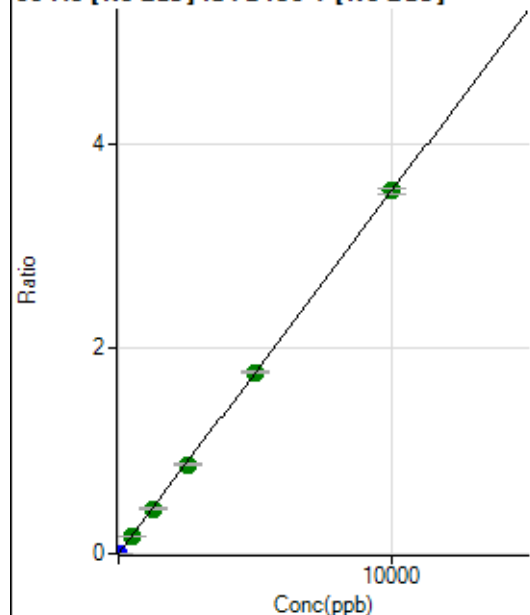
$$DL = 0.001158$$

$$BEC = 0.01801$$

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	163.34	0.0000	P	14.2
2	☐	5.000	4.417	20484.12	0.0016	P	1.0
3	☐	500.000	495.293	2363220.45	0.1750	A	2.0
4	☐	1250.000	1233.212	5817847.69	0.4357	A	2.9
5	☐	2500.000	2451.220	11670025.11	0.8661	A	2.4
6	☐	5000.000	5012.558	23695617.15	1.7710	A	0.5
7	☐	10000.000	10008.250	48060483.17	3.5361	A	1.6
8	☐			27457.48	0.0021	P	38.7

$$y = 3.5332\text{E-}004 * x + 1.2801\text{E-}005$$

$$R = 1.0000$$

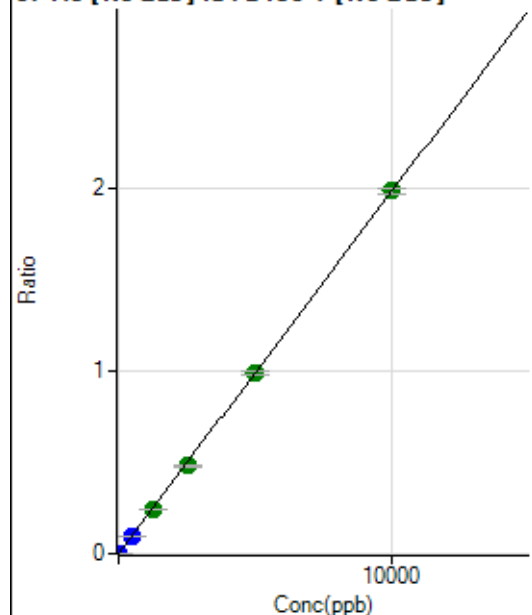
$$DL = 0.01547$$

$$BEC = 0.03623$$

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	55.55	0.0000	P	45.2
2	☐	5.000	4.284	11118.98	0.0009	P	2.2
3	☐	500.000	479.724	1285046.35	0.0952	P	1.5
4	☐	1250.000	1236.970	3276205.64	0.2454	A	1.8
5	☐	2500.000	2425.325	6482153.86	0.4811	A	2.0
6	☐	5000.000	4991.538	13244318.69	0.9901	A	1.9
7	☐	10000.000	10025.543	27025960.99	1.9886	A	1.8
8	☐			14505.10	0.0011	P	40.7

$$y = 1.9835\text{E-}004 * x + 4.3508\text{E-}006$$

$$R = 1.0000$$

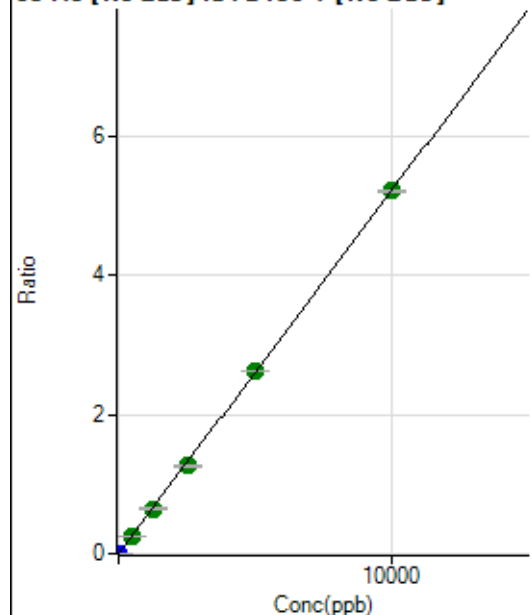
$$DL = 0.02972$$

$$BEC = 0.02193$$

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	110.00	0.0000	P	24.9
2	☐	5.000	4.360	29715.23	0.0023	P	2.2
3	☐	500.000	495.702	3491094.43	0.2585	A	0.9
4	☐	1250.000	1230.446	8567427.86	0.6416	A	2.8
5	☐	2500.000	2424.218	17033555.16	1.2641	A	1.6
6	☐	5000.000	5048.122	35222328.92	2.6324	A	0.2
7	☐	10000.000	9997.544	70860870.06	5.2133	A	0.8
8	☐			38634.98	0.0030	P	40.7

$$y = 5.2145\text{E-}004 * x + 8.6279\text{E-}006$$

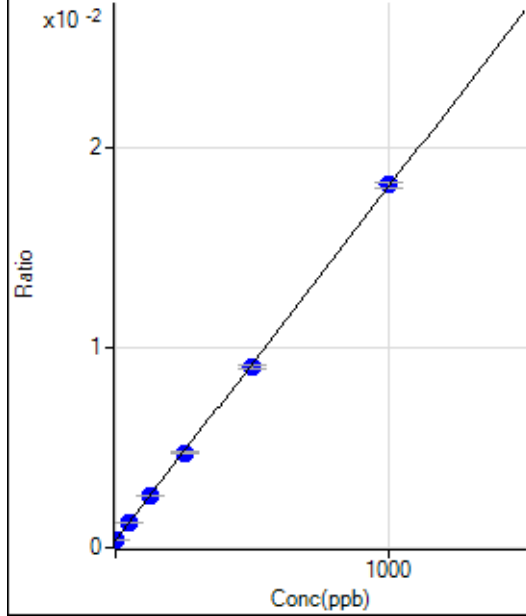
$$R = 1.0000$$

$$DL = 0.01235$$

$$BEC = 0.01655$$

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	4016.18	0.0004	P	2.6
2	☐	1.000	1.953	4470.76	0.0004	P	2.0
3	☐	50.000	49.762	14699.06	0.0012	P	1.1
4	☐	125.000	126.110	30028.21	0.0026	P	1.2
5	☐	250.000	246.643	55537.89	0.0047	P	2.0
6	☐	500.000	490.492	106856.52	0.0090	P	1.2
7	☐	1000.000	1005.465	213958.54	0.0182	P	1.7
8	☐			4269.59	0.0004	P	2.7

$$y = 1.7705E-005 * x + 3.6546E-004$$

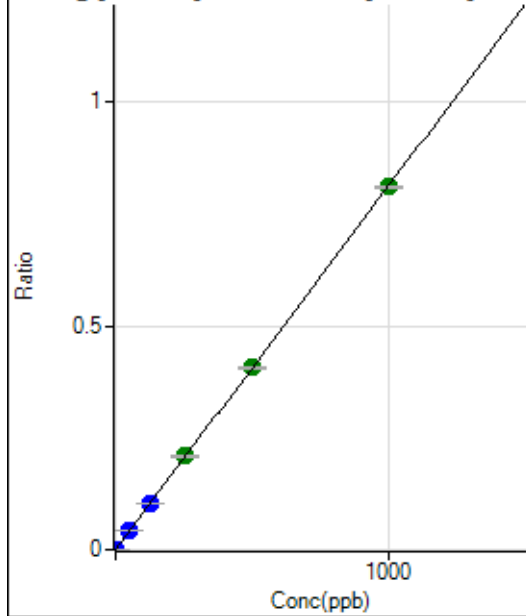
$$R = 0.9999$$

$$DL = 1.639$$

$$BEC = 20.64$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103.34	0.0000	P	31.4
2	☐	1.000	0.993	9125.33	0.0008	P	1.0
3	☐	50.000	50.668	485906.24	0.0412	P	0.9
4	☐	125.000	127.968	1202590.67	0.1041	P	1.1
5	☐	250.000	256.812	2450445.88	0.2088	A	2.8
6	☐	500.000	500.613	4806579.68	0.4070	A	0.9
7	☐	1000.000	997.586	9553634.16	0.8111	A	0.9
8	☐			3565.33	0.0003	P	57.2

$$y = 8.1306E-004 * x + 9.4116E-006$$

$$R = 1.0000$$

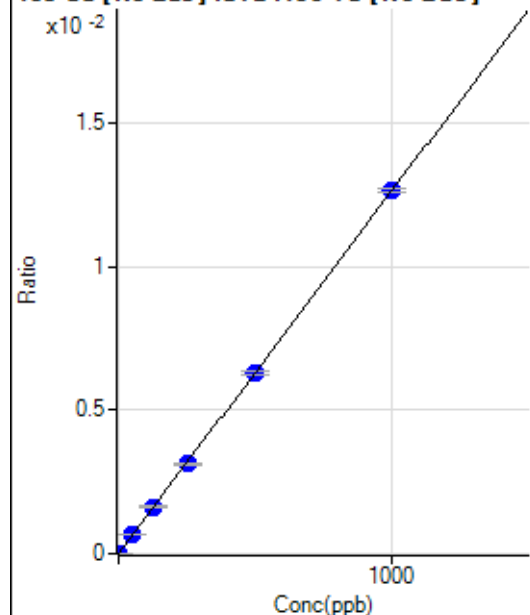
$$DL = 0.0109$$

$$BEC = 0.01158$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17.78	0.0000	P	88.6
2	☐	1.000	1.040	164.45	0.0000	P	10.9
3	☐	50.000	51.269	7651.09	0.0006	P	1.8
4	☐	125.000	129.180	18868.59	0.0016	P	2.0
5	☐	250.000	248.789	36880.42	0.0031	P	1.7
6	☐	500.000	497.152	74121.34	0.0063	P	1.9
7	☐	1000.000	1001.141	148885.79	0.0126	P	1.2
8	☐			118.89	0.0000	P	32.4

$$y = 1.2625\text{E-}005 * x + 1.6072\text{E-}006$$

$$R = 1.0000$$

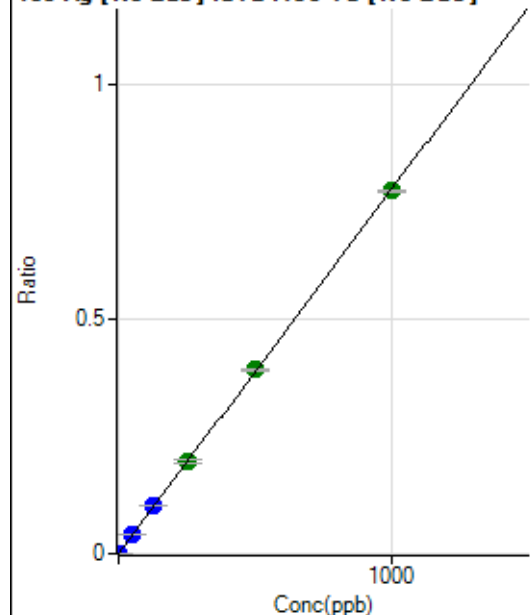
$$DL = 0.3385$$

$$BEC = 0.1273$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.22	0.0000	P	28.8
2	☐	1.000	0.987	8603.87	0.0008	P	5.1
3	☐	50.000	51.004	466541.83	0.0396	P	0.5
4	☐	125.000	130.089	1166137.04	0.1009	P	0.2
5	☐	250.000	254.410	2315252.36	0.1973	A	4.6
6	☐	500.000	504.459	4620155.21	0.3912	A	1.3
7	☐	1000.000	995.981	9098548.41	0.7724	A	0.6
8	☐			3546.44	0.0003	P	60.4

$$y = 7.7556\text{E-}004 * x + 4.7460\text{E-}006$$

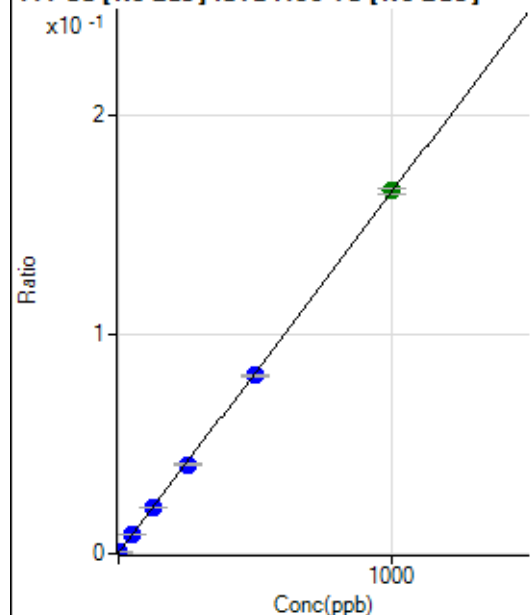
$$R = 1.0000$$

$$DL = 0.005292$$

$$BEC = 0.006119$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2822.22	0.0003	P	3.0
2	☐	1.000	1.145	4973.48	0.0004	P	0.6
3	☐	50.000	49.692	99392.01	0.0084	P	1.2
4	☐	125.000	126.176	242781.11	0.0210	P	1.4
5	☐	250.000	245.023	475896.01	0.0406	P	2.3
6	☐	500.000	492.831	960075.38	0.0813	P	1.0
7	☐	1000.000	1004.697	1948944.90	0.1655	A	1.6
8	☐			3718.87	0.0003	P	9.9

$$y = 1.6445\text{E-}004 * x + 2.5682\text{E-}004$$

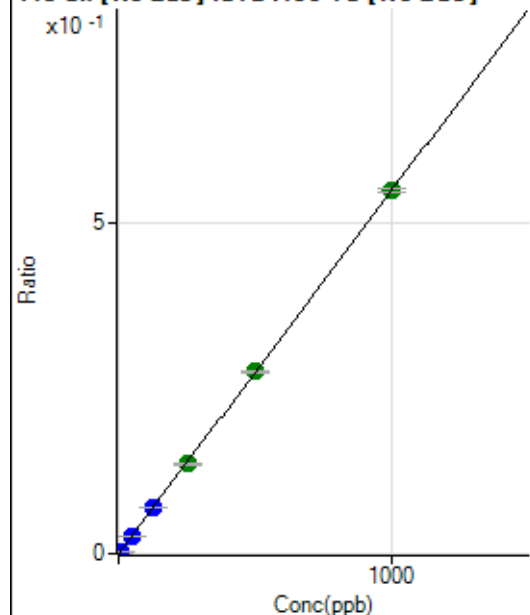
$$R = 0.9999$$

$$DL = 0.1428$$

$$BEC = 1.562$$

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	917.82	0.0001	P	1.6
2	☐	5.000	4.907	30941.65	0.0028	P	3.6
3	☐	50.000	49.101	318097.37	0.0270	P	0.6
4	☐	125.000	125.862	797656.79	0.0690	P	0.3
5	☐	250.000	246.871	1587555.72	0.1353	A	3.3
6	☐	500.000	502.137	3248704.92	0.2751	A	0.9
7	☐	1000.000	999.652	6449451.29	0.5476	A	1.0
8	☐			5925.96	0.0005	P	21.6

$$y = 5.4767\text{E-}004 * x + 8.3509\text{E-}005$$

$$R = 1.0000$$

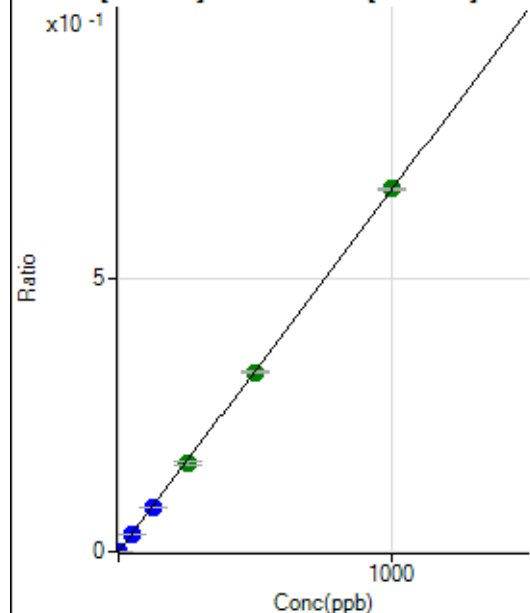
$$DL = 0.00738$$

$$BEC = 0.1525$$

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	85.56	0.0000	P	23.3
2	☐	2.000	1.976	14719.11	0.0013	P	1.8
3	☐	50.000	48.414	378677.09	0.0321	P	1.5
4	☐	125.000	123.738	948542.83	0.0821	P	0.6
5	☐	250.000	245.348	1909454.92	0.1627	A	3.2
6	☐	500.000	496.023	3884092.16	0.3290	A	1.4
7	☐	1000.000	1003.389	7837855.58	0.6654	A	0.7
8	☐			6695.34	0.0006	P	29.4

$$y = 6.6316E-004 * x + 7.7843E-006$$

$$R = 1.0000$$

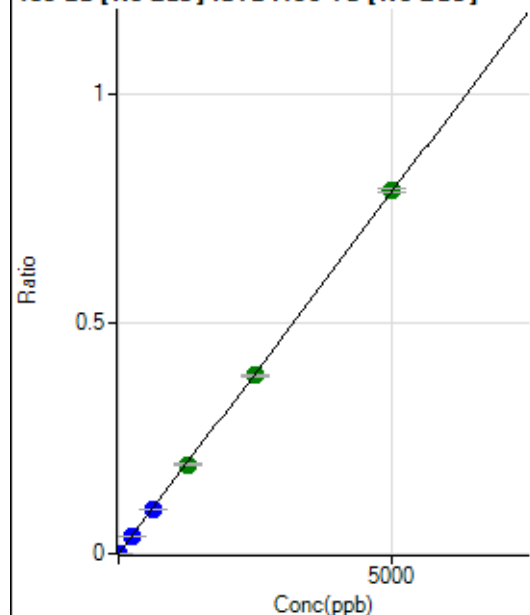
$$DL = 0.008209$$

$$BEC = 0.01174$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0000	P	27.7
2	☐	10.000	9.762	17288.93	0.0015	P	2.1
3	☐	250.000	242.581	449131.78	0.0381	P	0.7
4	☐	625.000	617.491	1120144.04	0.0969	P	0.5
5	☐	1250.000	1235.295	2275144.27	0.1939	A	2.2
6	☐	2500.000	2465.392	4568499.38	0.3869	A	1.4
7	☐	5000.000	5022.291	9283150.56	0.7882	A	1.1
8	☐			6753.24	0.0006	P	30.0

$$y = 1.5693E-004 * x + 1.6045E-005$$

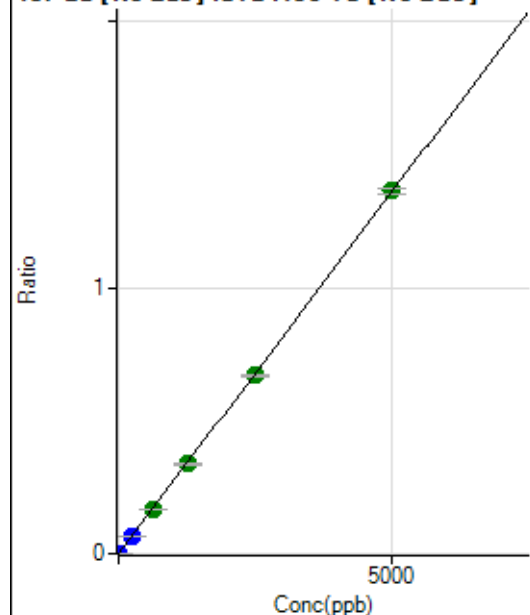
$$R = 1.0000$$

$$DL = 0.08489$$

$$BEC = 0.1022$$

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	255.56	0.0000	P	24.2
2	☐	10.000	9.966	30458.74	0.0027	P	2.7
3	☐	250.000	246.827	790031.44	0.0670	P	1.3
4	☐	625.000	612.704	1921695.60	0.1663	A	0.3
5	☐	1250.000	1240.256	3949214.18	0.3365	A	3.5
6	☐	2500.000	2462.713	7889552.87	0.6682	A	2.0
7	☐	5000.000	5022.775	16050015.87	1.3628	A	1.9
8	☐			11521.87	0.0010	P	31.0

$$y = 2.7133E-004 * x + 2.3239E-005$$

$$R = 1.0000$$

$$DL = 0.0621$$

$$BEC = 0.08565$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

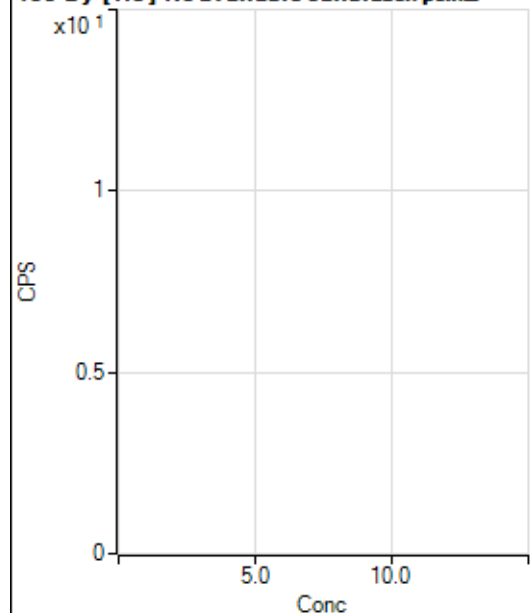
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	33.3
2	☐			12.22		P	31.5
3	☐			64.44		P	18.2
4	☐			150.00		P	2.2
5	☐			274.45		P	8.5
6	☐			566.68		P	7.4
7	☐			2002.39		P	4.3
8	☐			173.34		P	30.0

150 Nd [He] No available calibration points

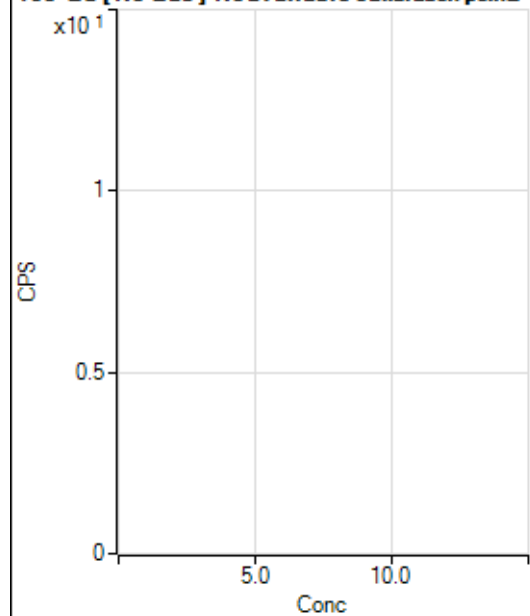
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			13.33		P	109.0
4	☐			25.56		P	7.5
5	☐			56.67		P	21.2
6	☐			131.11		P	22.8
7	☐			457.79		P	1.5
8	☐			64.44		P	3.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	20.8
2	☐			28.89		P	35.2
3	☐			33.33		P	10.0
4	☐			77.78		P	32.5
5	☐			163.34		P	20.7
6	☐			258.90		P	12.2
7	☐			916.71		P	4.1
8	☐			301.12		P	13.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.7
2	☐			5.56		P	34.7
3	☐			20.00		P	76.4
4	☐			43.33		P	7.7
5	☐			88.89		P	20.7
6	☐			173.34		P	14.5
7	☐			530.02		P	6.9
8	☐			116.67		P	10.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			95.55		P	31.7
2	☐			93.33		P	10.7
3	☐			127.78		P	5.4
4	☐			145.56		P	10.3
5	☐			198.89		P	15.9
6	☐			314.45		P	2.4
7	☐			1015.60		P	4.5
8	☐			371.12		P	10.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			226.67		P	23.3
2	☐			222.22		P	6.1
3	☐			234.45		P	20.6
4	☐			252.23		P	25.2
5	☐			277.78		P	9.3
6	☐			315.56		P	2.7
7	☐			615.58		P	5.4
8	☐			328.90		P	13.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	20.0
2	☐			88.89		P	2.2
3	☐			113.33		P	30.7
4	☐			127.78		P	16.6
5	☐			146.67		P	6.0
6	☐			275.56		P	14.4
7	☐			743.36		P	5.8
8	☐			328.90		P	8.3

164 Er [He] No available calibration points

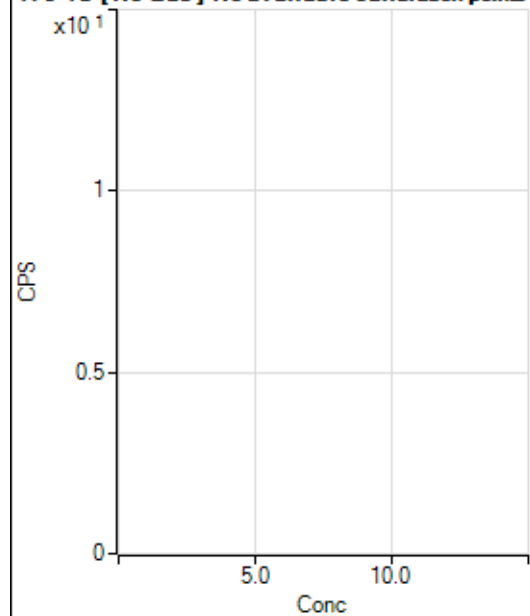
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	27.0
2	☐			37.78		P	58.7
3	☐			50.00		P	35.3
4	☐			38.89		P	21.6
5	☐			80.00		P	36.1
6	☐			110.00		P	5.2
7	☐			350.01		P	4.2
8	☐			148.89		P	26.5

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81.11		P	4.7
2	☐			58.89		P	27.9
3	☐			85.56		P	16.2
4	☐			117.78		P	1.6
5	☐			122.23		P	23.5
6	☐			223.34		P	13.0
7	☐			322.23		P	4.2
8	☐			438.90		P	14.1

172 Yb [He] No available calibration points

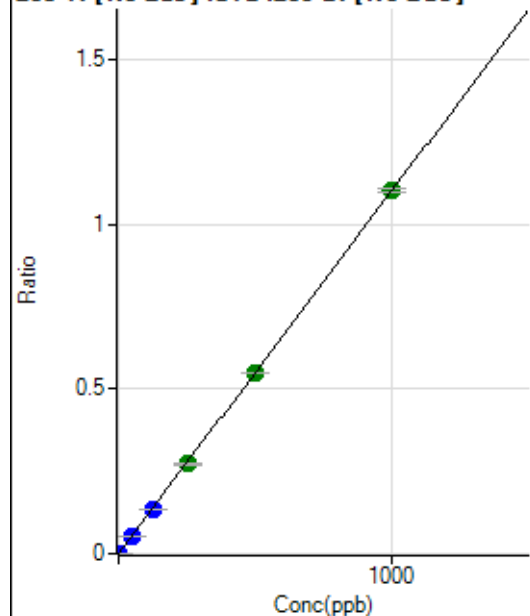
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	32.8
2	☐			28.89		P	48.0
3	☐			31.11		P	24.7
4	☐			54.44		P	9.4
5	☐			57.78		P	8.8
6	☐			94.44		P	8.9
7	☐			190.01		P	13.2
8	☐			227.78		P	11.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1496.77		P	2.6
2	☐			1546.78		P	2.0
3	☐			3358.24		P	7.8
4	☐			5844.69		P	2.5
5	☐			10194.02		P	2.7
6	☐			18666.64		P	1.8
7	☐			36423.40		P	0.2
8	☐			1781.25		P	2.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18010.15		P	3.0
2	☐			18525.35		P	0.8
3	☐			19355.43		P	0.8
4	☐			20625.09		P	1.3
5	☐			22597.21		P	1.0
6	☐			26691.50		P	3.4
7	☐			34061.74		P	1.4
8	☐			19523.39		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	243.34	0.0000	P	13.8
2	☐	1.000	0.938	7641.22	0.0011	P	1.0
3	☐	50.000	48.522	395005.48	0.0535	P	3.3
4	☐	125.000	121.070	981417.22	0.1334	P	1.5
5	☐	250.000	248.005	1976960.25	0.2732	A	1.2
6	☐	500.000	500.349	3974827.72	0.5512	A	0.2
7	☐	1000.000	1000.889	7980114.46	1.1027	A	0.9
8	☐			3548.63	0.0005	P	55.5

$$y = 0.0011 * x + 3.5076E-005$$

$$R = 1.0000$$

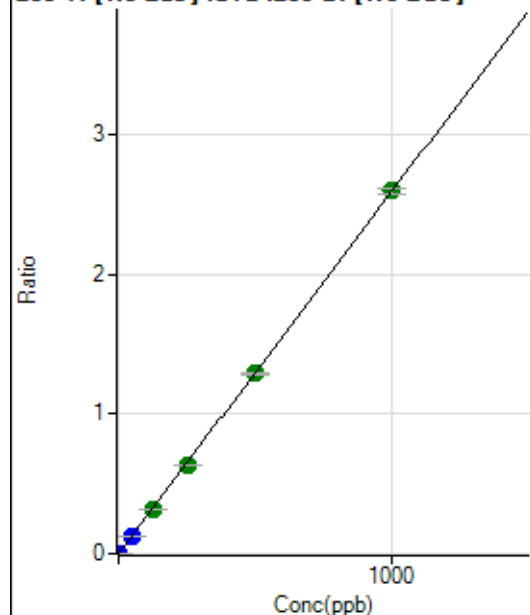
$$DL = 0.01321$$

$$BEC = 0.03184$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	543.35	0.0001	P	7.7
2	☐	1.000	0.973	18600.09	0.0026	P	1.6
3	☐	50.000	49.504	948193.54	0.1284	P	3.3
4	☐	125.000	122.106	2329114.39	0.3166	A	1.3
5	☐	250.000	244.707	4589663.44	0.6344	A	1.8
6	☐	500.000	497.197	9294519.86	1.2888	A	1.7
7	☐	1000.000	1003.111	18815359.86	2.6002	A	1.4
8	☐			8462.39	0.0013	P	53.9

$$y = 0.0026 * x + 7.8282E-005$$

$$R = 1.0000$$

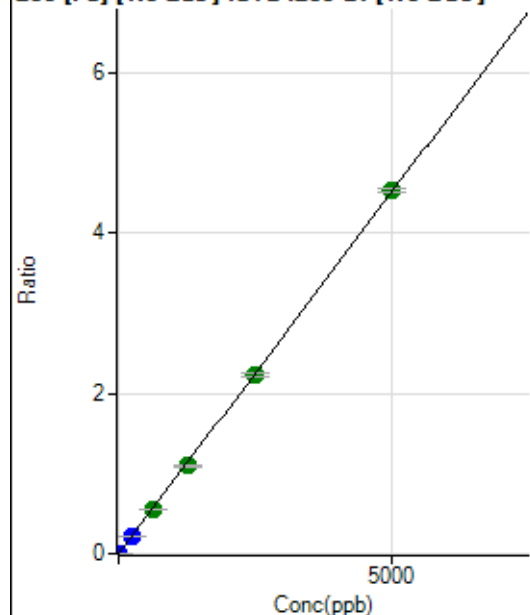
$$DL = 0.006983$$

$$BEC = 0.0302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	585.57	0.0001	P	3.7
2	☐	1.000	0.963	6804.07	0.0010	P	2.7
3	☐	250.000	244.303	1626265.51	0.2202	P	2.9
4	☐	625.000	614.688	4074921.40	0.5539	A	2.3
5	☐	1250.000	1215.660	7925042.18	1.0954	A	1.1
6	☐	2500.000	2475.416	16083836.01	2.2304	A	1.6
7	☐	5000.000	5022.451	32747597.57	4.5252	A	0.9
8	☐			23914.47	0.0037	P	30.2

$$y = 9.0098E-004 * x + 8.4330E-005$$

$$R = 1.0000$$

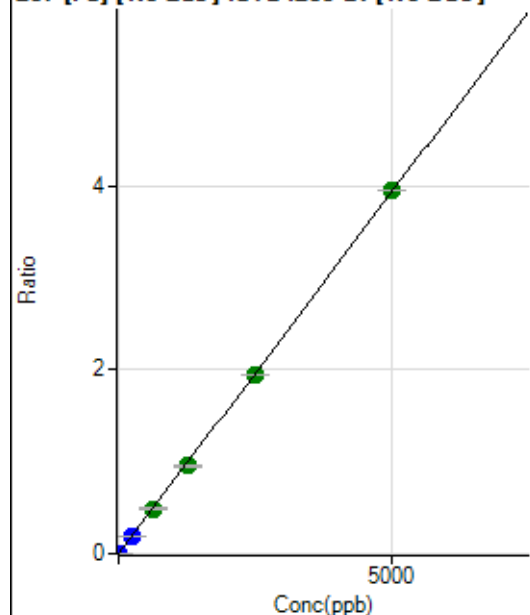
$$DL = 0.01038$$

$$BEC = 0.0936$$

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	508.91	0.0001	P	15.1
2	☐	1.000	0.960	5908.07	0.0008	P	3.0
3	☐	250.000	248.110	1438025.86	0.1947	P	3.5
4	☐	625.000	620.456	3581788.14	0.4869	A	2.2
5	☐	1250.000	1218.089	6914964.76	0.9558	A	1.5
6	☐	2500.000	2469.810	13973411.32	1.9378	A	0.5
7	☐	5000.000	5023.735	28525612.91	3.9416	A	0.1
8	☐			20954.86	0.0032	P	30.5

$$y = 7.8457E-004 * x + 7.3328E-005$$

$$R = 0.9999$$

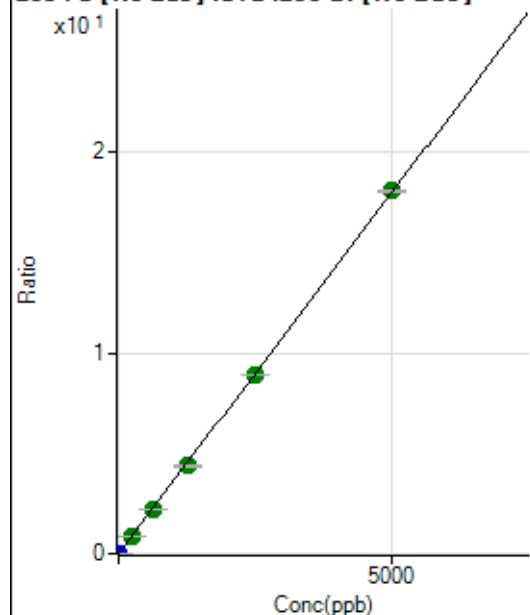
$$DL = 0.0424$$

$$BEC = 0.09346$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2432.34	0.0004	P	7.5
2	☐	1.000	0.944	26811.03	0.0037	P	0.6
3	☐	250.000	244.082	6491226.60	0.8789	A	2.9
4	☐	625.000	609.114	16131542.19	2.1928	A	1.7
5	☐	1250.000	1212.337	31574589.88	4.3641	A	2.1
6	☐	2500.000	2471.019	64136640.16	8.8946	A	0.5
7	☐	5000.000	5026.188	130924825.5	18.0917	A	0.7
8	☐			95909.27	0.0147	P	31.2

$$y = 0.0036 * x + 3.5031E-004$$

$$R = 0.9999$$

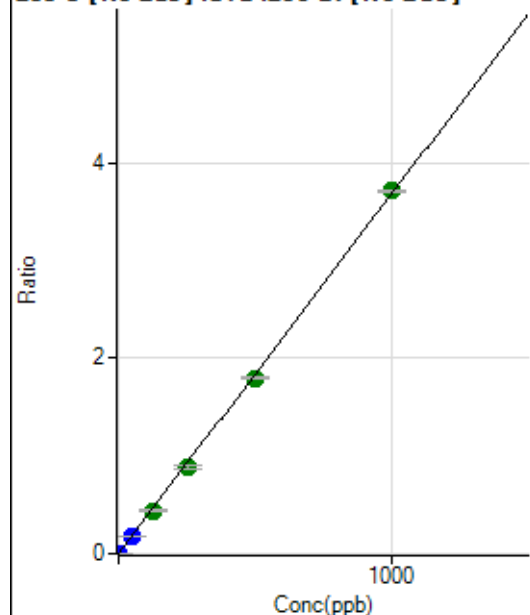
$$DL = 0.02201$$

$$BEC = 0.09732$$

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	115.56	0.0000	P	13.9
2	☐	1.000	0.914	24158.56	0.0034	P	1.2
3	☐	50.000	48.132	1307347.57	0.1770	P	3.5
4	☐	125.000	119.068	3221222.00	0.4379	A	2.4
5	☐	250.000	241.453	6425044.56	0.8880	A	3.2
6	☐	500.000	488.396	12951059.67	1.7962	A	0.7
7	☐	1000.000	1008.774	26849001.82	3.7100	A	0.6
8	☐			9725.00	0.0015	P	62.6

$$y = 0.0037 * x + 1.6623E-005$$

$$R = 0.9999$$

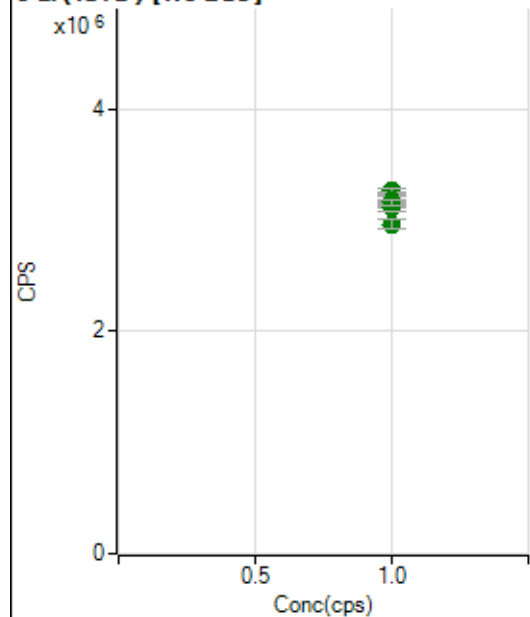
$$DL = 0.001887$$

$$BEC = 0.00452$$

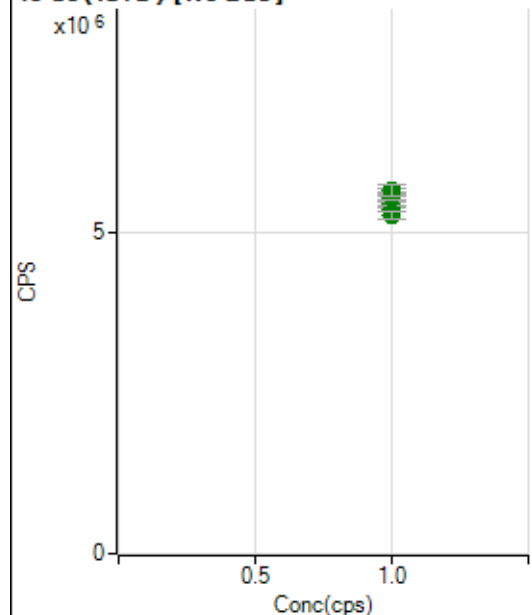
Weight: <None>

Min Conc: 0

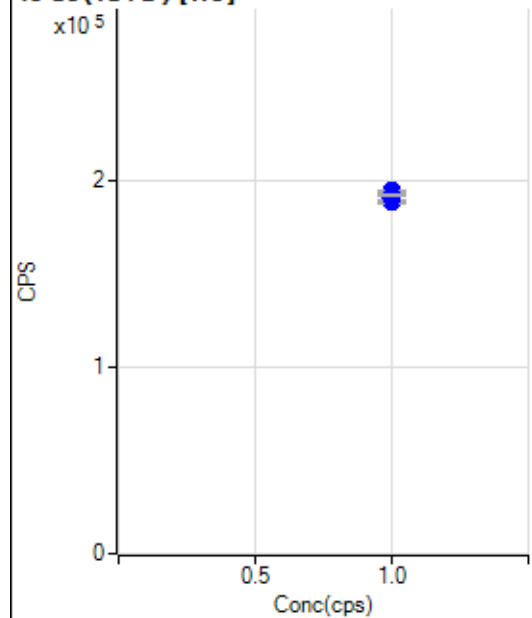
6 Li (ISTD) [No Gas]



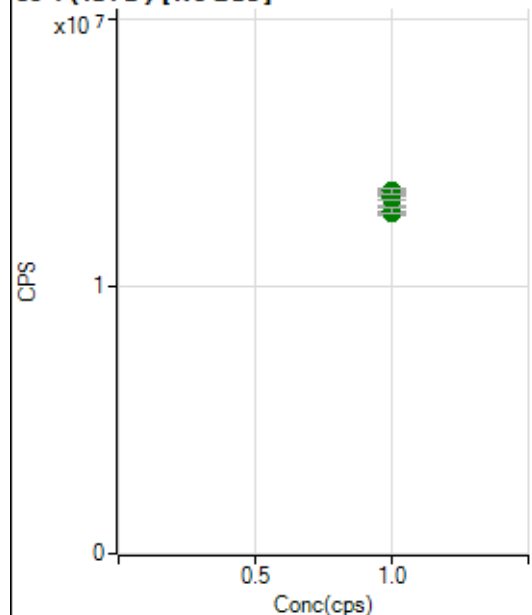
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3170059.19		A	1.2
2	☐	1.000		3154603.75		A	2.0
3	☐	1.000		3265292.26		A	1.2
4	☐	1.000		3190752.18		A	2.6
5	☐	1.000		3183726.99		A	2.7
6	☐	1.000		3120462.01		A	3.0
7	☐	1.000		3159149.23		A	1.5
8	☐	1.000		2966624.20		A	2.6

45 Sc (ISTD) [No Gas]

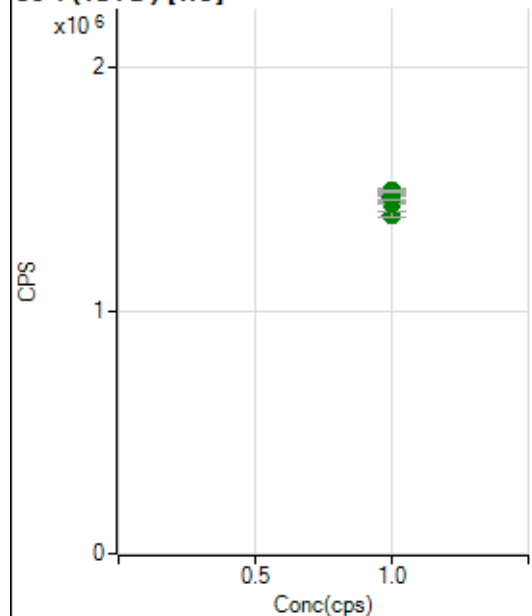
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5369451.14		A	1.4
2	☐	1.000		5472086.93		A	1.6
3	☐	1.000		5650585.06		A	1.6
4	☐	1.000		5550980.75		A	0.8
5	☐	1.000		5549820.54		A	2.6
6	☐	1.000		5587826.51		A	1.9
7	☐	1.000		5663113.39		A	3.1
8	☐	1.000		5280410.23		A	2.6

45 Sc (ISTD) [He]

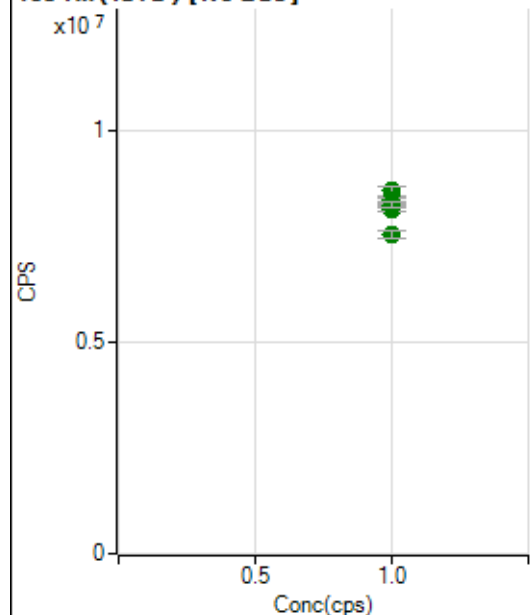
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		188159.03		P	0.8
2	☐	1.000		190679.75		P	1.5
3	☐	1.000		190980.08		P	1.9
4	☐	1.000		190734.62		P	1.1
5	☐	1.000		191116.12		P	1.5
6	☐	1.000		193873.96		P	1.3
7	☐	1.000		194503.62		P	0.9
8	☐	1.000		192192.29		P	0.6

89 Y (ISTD) [No Gas]

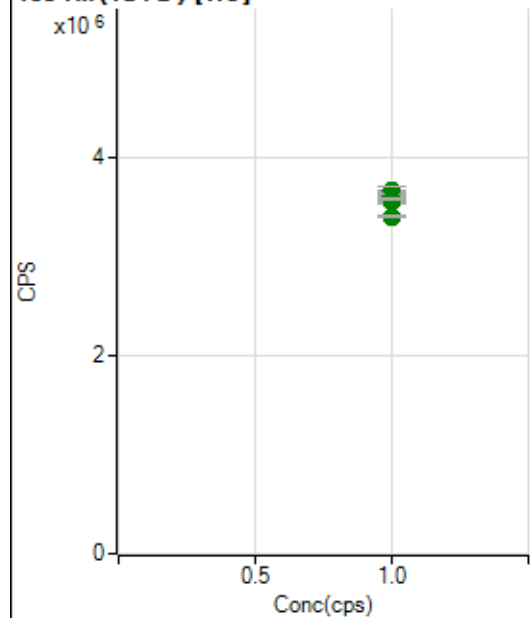
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12756322.17		A	1.5
2	☐	1.000		13019836.20		A	0.5
3	☐	1.000		13507002.30		A	2.0
4	☐	1.000		13354302.86		A	1.1
5	☐	1.000		13475144.38		A	0.7
6	☐	1.000		13380321.88		A	1.9
7	☐	1.000		13593469.80		A	1.8
8	☐	1.000		12848474.81		A	1.7

89 Y (ISTD) [He]

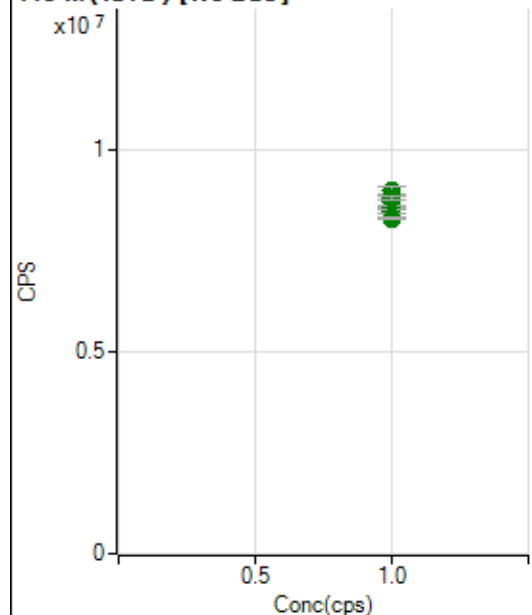
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1396924.87		A	1.3
2	☐	1.000		1442560.93		A	0.4
3	☐	1.000		1449261.70		A	0.6
4	☐	1.000		1454546.16		A	1.9
5	☐	1.000		1471094.67		A	2.7
6	☐	1.000		1466438.53		A	1.7
7	☐	1.000		1493266.61		A	1.7
8	☐	1.000		1492626.32		A	0.3

103 Rh (ISTD) [No Gas]

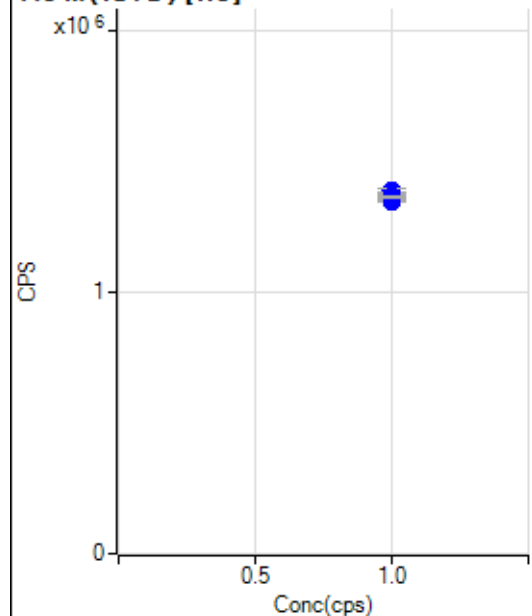
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8150853.35		A	1.7
2	☐	1.000		8331665.08		A	0.3
3	☐	1.000		8580121.89		A	3.0
4	☐	1.000		8381160.57		A	1.2
5	☐	1.000		8231602.24		A	0.7
6	☐	1.000		8255863.35		A	0.5
7	☐	1.000		8249514.32		A	1.8
8	☐	1.000		7547284.33		A	2.0

103 Rh (ISTD) [He]

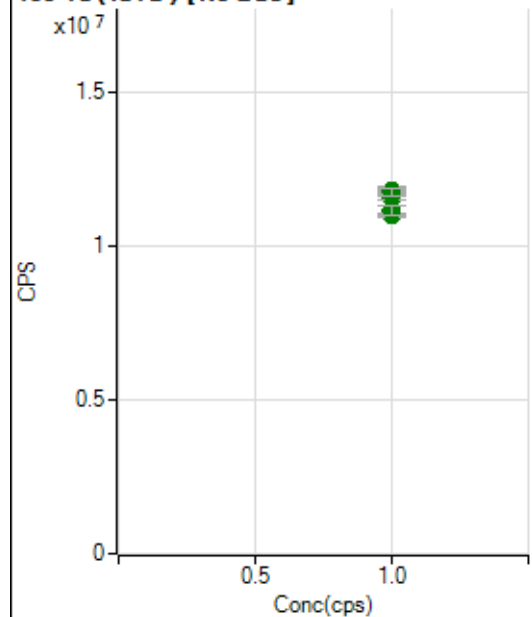
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3539207.17		A	0.9
2	☐	1.000		3641050.16		A	0.9
3	☐	1.000		3606937.20		A	0.9
4	☐	1.000		3624002.41		A	1.2
5	☐	1.000		3657187.79		A	2.9
6	☐	1.000		3600046.96		A	1.7
7	☐	1.000		3575047.10		A	0.9
8	☐	1.000		3399809.05		A	0.9

115 In (ISTD) [No Gas]

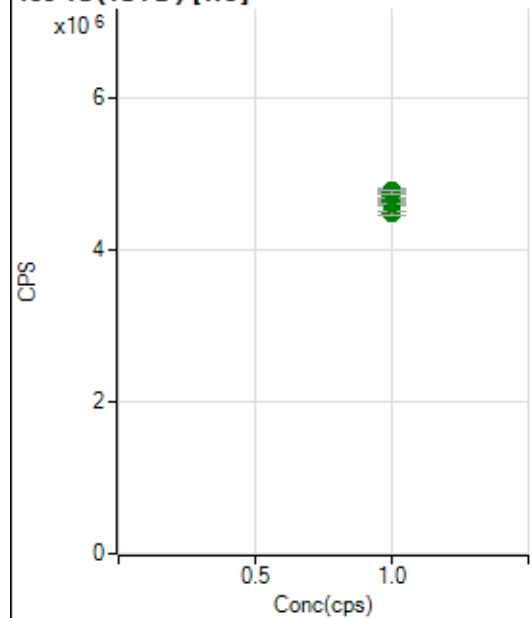
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8469978.32		A	1.9
2	☐	1.000		8557269.45		A	1.0
3	☐	1.000		8968120.04		A	3.0
4	☐	1.000		8808330.65		A	1.7
5	☐	1.000		8813712.62		A	1.3
6	☐	1.000		8716597.51		A	2.4
7	☐	1.000		8805251.58		A	1.3
8	☐	1.000		8281098.53		A	0.6

115 In (ISTD) [He]

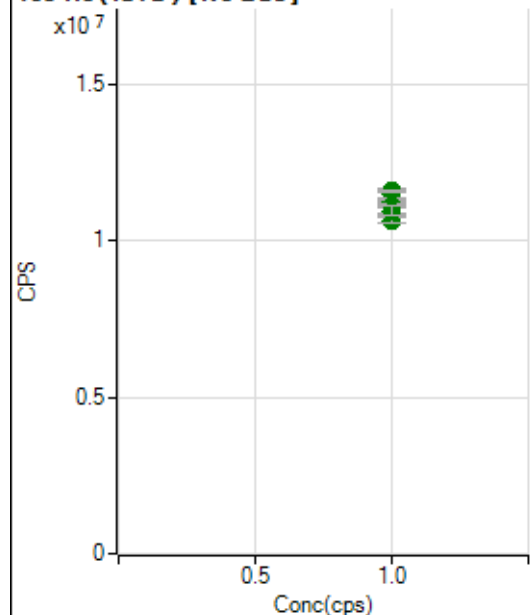
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1348526.00		P	0.5
2	☐	1.000		1374356.57		P	0.8
3	☐	1.000		1373831.01		P	1.0
4	☐	1.000		1381178.75		P	0.6
5	☐	1.000		1376792.69		P	1.4
6	☐	1.000		1389358.85		P	1.7
7	☐	1.000		1361756.53		P	1.3
8	☐	1.000		1369473.34		P	0.5

159 Tb (ISTD) [No Gas]

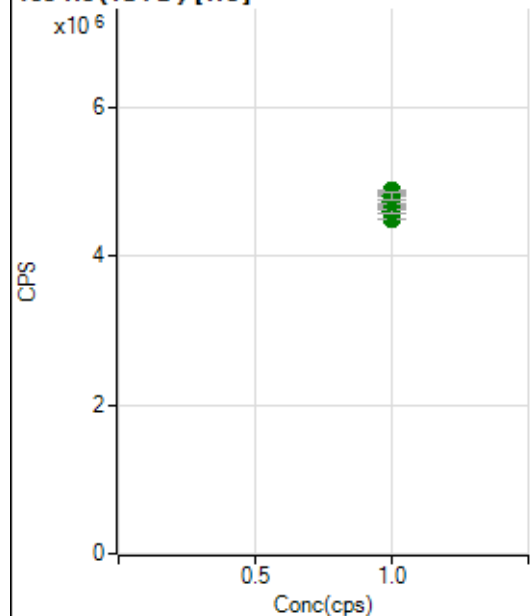
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10990892.06		A	1.1
2	☐	1.000		11172222.61		A	2.4
3	☐	1.000		11792945.38		A	1.1
4	☐	1.000		11558014.97		A	1.1
5	☐	1.000		11737212.19		A	1.0
6	☐	1.000		11810431.08		A	2.7
7	☐	1.000		11779720.65		A	2.0
8	☐	1.000		11174138.45		A	2.9

159 Tb (ISTD) [He]

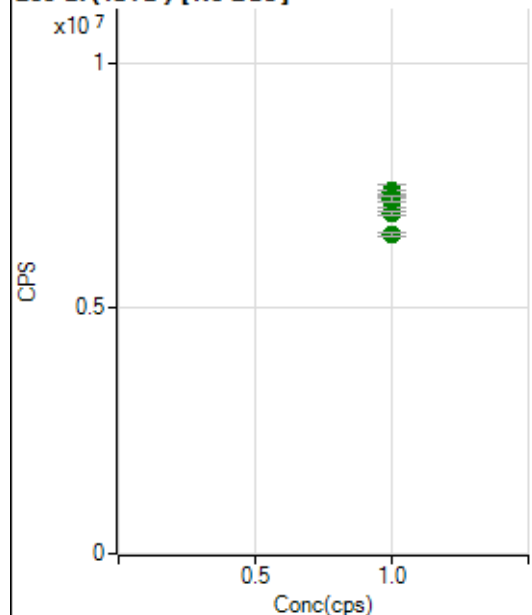
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4481141.43		A	1.4
2	☐	1.000		4612731.81		A	1.1
3	☐	1.000		4627494.90		A	1.4
4	☐	1.000		4711401.81		A	1.0
5	☐	1.000		4652361.63		A	1.9
6	☐	1.000		4776147.71		A	1.4
7	☐	1.000		4713743.71		A	1.8
8	☐	1.000		4762759.38		A	0.9

165 Ho (ISTD) [No Gas]

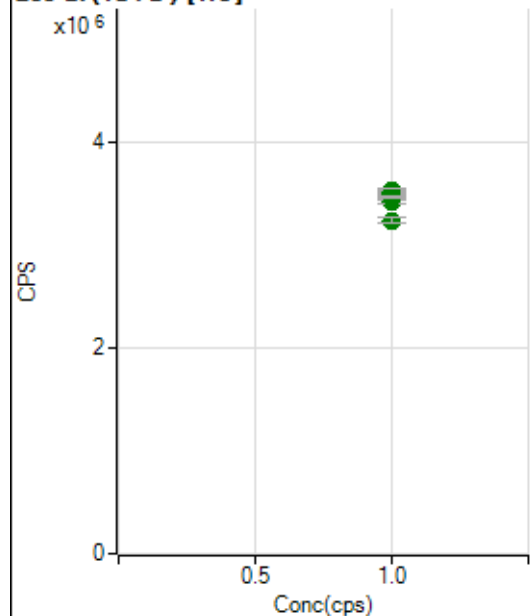
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10653272.13		A	2.0
2	☐	1.000		10951292.48		A	1.7
3	☐	1.000		11289093.72		A	4.4
4	☐	1.000		11271395.11		A	0.7
5	☐	1.000		11221819.14		A	1.2
6	☐	1.000		11509321.36		A	2.5
7	☐	1.000		11586361.08		A	0.6
8	☐	1.000		10936869.14		A	2.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4492695.45		A	0.3
2	☐	1.000		4606277.39		A	1.3
3	☐	1.000		4597774.20		A	1.4
4	☐	1.000		4729285.94		A	2.5
5	☐	1.000		4724187.78		A	0.7
6	☐	1.000		4870131.98		A	0.4
7	☐	1.000		4844167.01		A	1.2
8	☐	1.000		4813768.92		A	2.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6945327.19		A	1.2
2	☐	1.000		7152259.06		A	2.5
3	☐	1.000		7390292.60		A	3.3
4	☐	1.000		7356376.49		A	1.2
5	☐	1.000		7234958.78		A	0.2
6	☐	1.000		7210606.21		A	1.3
7	☐	1.000		7237180.38		A	1.4
8	☐	1.000		6491038.79		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3419965.16		A	1.2
2	☐	1.000		3529948.14		A	1.9
3	☐	1.000		3497549.18		A	1.7
4	☐	1.000		3524133.25		A	0.7
5	☐	1.000		3502976.41		A	1.0
6	☐	1.000		3518627.24		A	2.2
7	☐	1.000		3468580.05		A	0.7
8	☐	1.000		3243272.28		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8071424-MSS.b

Acq. Date-Time 2024-07-14 17:05:44

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		11079	110794.56			1.315	5.000
24		85441	854406.93			1.940	5.000
25		11651	116509.41			1.550	5.000
26		13548	135479.15			1.499	5.000
59		79008	790080.75			1.385	5.000
113		9267	92670.38			1.589	5.000
115		119052	1190521.34			2.212	5.000
206		29579	295794.48			1.924	5.000
207		26849	268488.10			2.063	5.000
208		63566	635663.75			2.109	5.000
220		0	3.60			20.601	

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

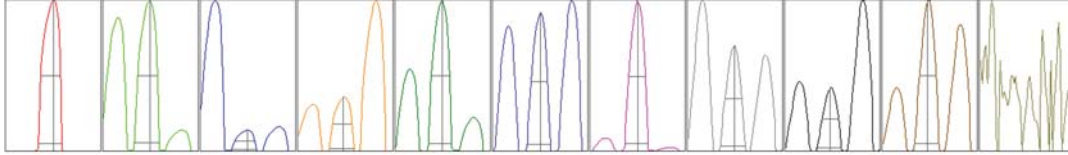
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11099	10862	11180	11022	11234
24	85516	83129	84759	86219	87580
25	11762	11335	11726	11670	11762
26	13702	13206	13584	13547	13700
59	79506	77267	79102	78936	80231
113	9456	9047	9307	9240	9286
115	123390	116243	118810	118676	118141
206	30181	28714	29342	29869	29791
207	27473	25982	26758	26912	27120
208	65062	61406	63709	63578	64077

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	18946.95	9.05	8.90 - 9.10	
24	145646.10	24.00	23.90 - 24.10	
25	20114.48	25.00	24.90 - 25.10	
26	23147.14	25.95	25.90 - 26.10	
59	146376.58	59.00	58.90 - 59.10	
113	18686.96	113.05	112.90 - 113.10	
115	237186.92	115.05	114.90 - 115.10	
206	58030.36	206.00	205.90 - 206.10	
207	52831.70	206.95	206.90 - 207.10	
208	125526.31	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.741	0.900	
24	0.62	0.785	0.900	
25	0.61	0.785	0.900	
26	0.62	0.785	0.900	
59	0.57	0.737	0.900	
113	0.51	0.733	0.900	
115	0.52	0.733	0.900	
206	0.52	0.781	0.900	
207	0.52	0.773	0.900	
208	0.52	0.770	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	11.7 V	Deflect	14.8 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	180 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2123 V	Pulse HV	966 V
---------------	--------	-----------	--------	----------	-------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		17089	170888.52			0.866	
89		12931	129307.38			0.609	
205		20275	202747.13			0.931	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	17190	17087	16844	17221	17102
89	13020	12967	12824	12877	12965
205	20457	20494	20076	20151	20195

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	11.7 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	125	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2123 V	Pulse HV	966 V
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