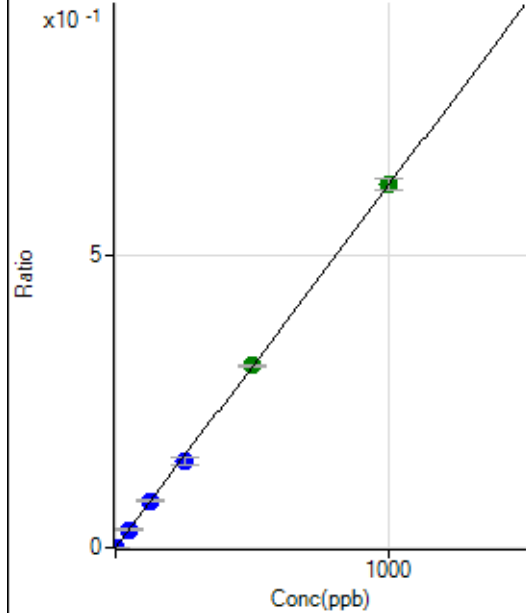


Calibration for 033ICSB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050122MS.b\
 Analysis File: P8050122MS.batch.bin
 DA Date-Time: 2022-05-01 19:49:19
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	020CALB.d	S00	2022-05-01 16:58:58
2	022CALS.d	S02	2022-05-01 17:05:08
3	023CALS.d	S03	2022-05-01 17:08:11
4	024CALS.d	S04	2022-05-01 17:11:16
5	025CALS.d	S05	2022-05-01 17:14:20
6	026CALS.d	S06	2022-05-01 17:17:26
7	027CALS.d	S07	2022-05-01 17:20:29
8	029CALS.d	S08	2022-05-01 17:26:38

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31.33	0.0000	P	14.4
2	☐	1.000	1.048	2958.39	0.0007	P	6.8
3	☐	50.000	50.127	143711.50	0.0310	P	2.3
4	☐	125.000	129.413	377225.12	0.0801	P	2.9
5	☐	250.000	237.660	728494.25	0.1471	P	8.8
6	☐	500.000	501.988	1516305.91	0.3106	A	1.2
7	☐	1000.000	1001.533	2975263.50	0.6197	A	3.1
8	☐			203.30	0.0000	P	13.5

$$y = 6.1879\text{E-}004 * x + 7.1273\text{E-}006$$

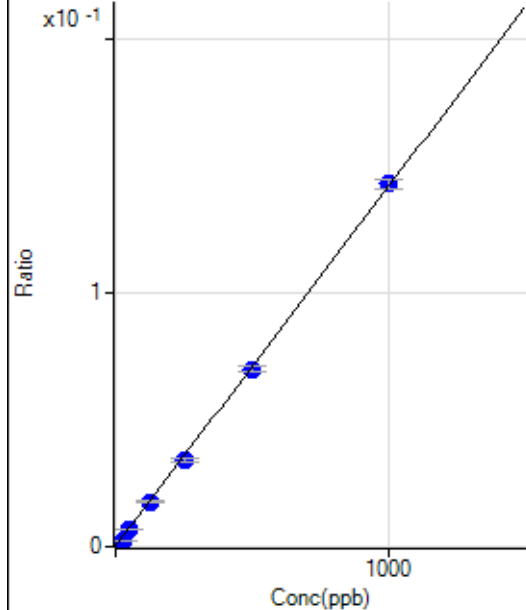
$$R = 0.9999$$

$$DL = 0.004979$$

$$BEC = 0.01152$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	620.56	0.0001	P	1.5
2	☐	25.000	14.380	9840.07	0.0022	P	5.1
3	☐	50.000	47.761	31987.56	0.0069	P	5.0
4	☐	125.000	124.469	83711.76	0.0178	P	3.5
5	☐	250.000	238.826	168591.45	0.0340	P	5.6
6	☐	500.000	492.375	341159.93	0.0699	P	3.0
7	☐	1000.000	1007.050	685413.76	0.1428	P	2.4
8	☐			29017.75	0.0064	P	0.8

$$y = 1.4166\text{E-}004 * x + 1.4124\text{E-}004$$

$$R = 0.9999$$

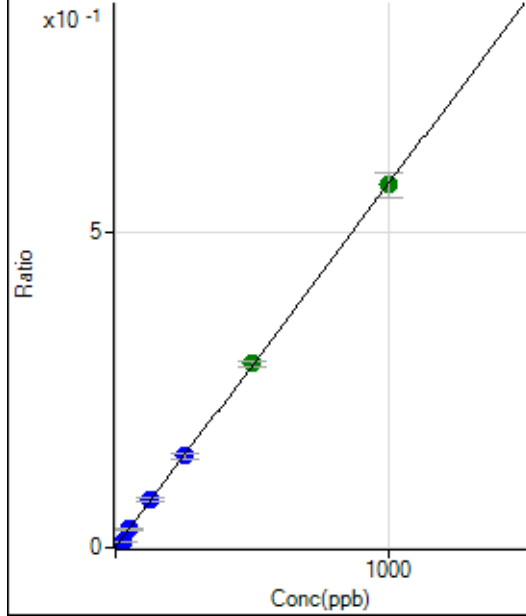
$$DL = 0.04453$$

$$BEC = 0.997$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2811.73	0.0006	P	7.2
2	☐	25.000	15.184	42276.35	0.0094	P	1.3
3	☐	50.000	50.729	137954.29	0.0298	P	6.3
4	☐	125.000	130.172	355324.75	0.0755	P	5.7
5	☐	250.000	250.786	718316.10	0.1448	P	5.5
6	☐	500.000	504.552	1418708.27	0.2906	A	3.1
7	☐	1000.000	997.090	2752879.50	0.5737	A	7.1
8	☐			126791.09	0.0281	P	2.2

$$y = 5.7472E-004 * x + 6.3987E-004$$

$$R = 0.9999$$

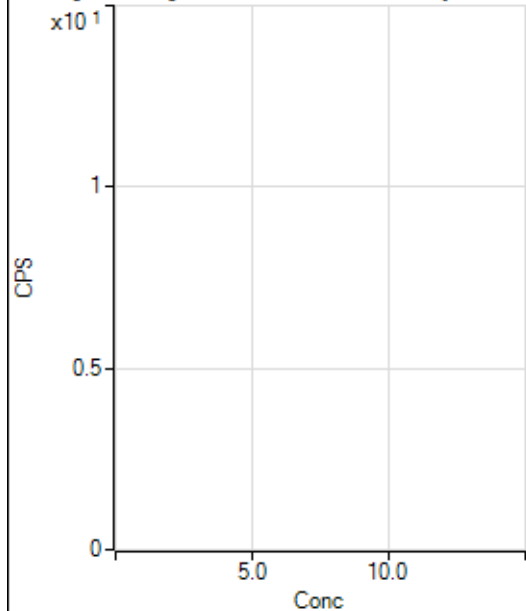
$$DL = 0.2421$$

$$BEC = 1.113$$

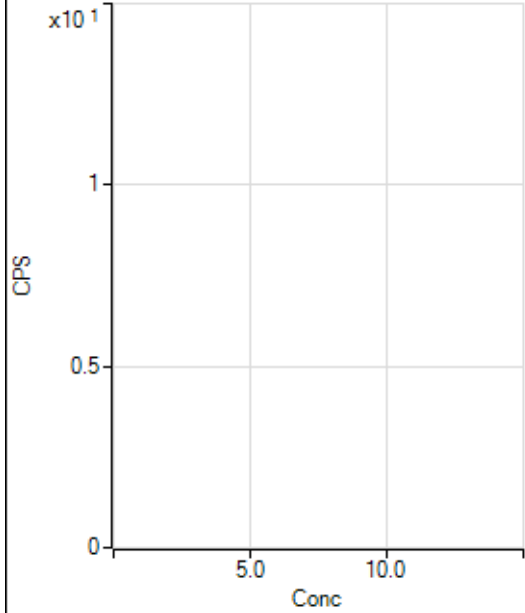
Weight: <None>

Min Conc: 0

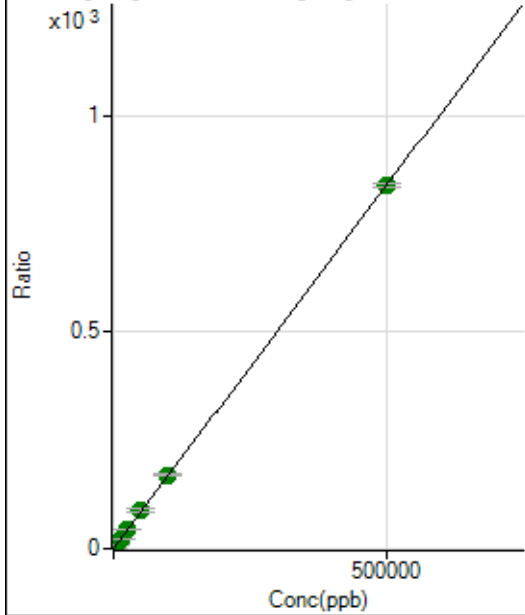
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5864874.61		A	2.2
2	☐			5769001.26		A	2.2
3	☐			6149129.56		A	0.3
4	☐			6293285.38		A	1.0
5	☐			7000728.89		A	0.1
6	☐			6797450.54		A	1.3
7	☐			7929907.73		A	2.5
8	☐			6275007.56		A	1.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			57427.20		P	2.6
2	☐			57357.33		P	0.7
3	☐			61744.98		P	2.0
4	☐			63381.52		P	2.2
5	☐			72689.16		P	1.2
6	☐			70276.93		P	1.4
7	☐			87402.58		P	2.7
8	☐			71622.58		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9962.00	0.0547	P	4.3
2	☐	500.000	494.177	154843.26	0.8833	P	9.4
3	☐	5000.000	4967.156	1551098.35	8.3834	A	3.0
4	☐	12500.000	12996.957	3994690.02	21.8474	A	1.8
5	☐	25000.000	26327.208	7837752.61	44.1991	A	3.3
6	☐	50000.000	53222.320	15656936.81	89.2957	A	9.1
7	☐	100000.00	101755.67	32033029.19	170.6744	A	1.1
8	☐	500000.00	499248.18	165194345.3	837.1737	A	1.2

$$y = 0.0017 * x + 0.0547$$

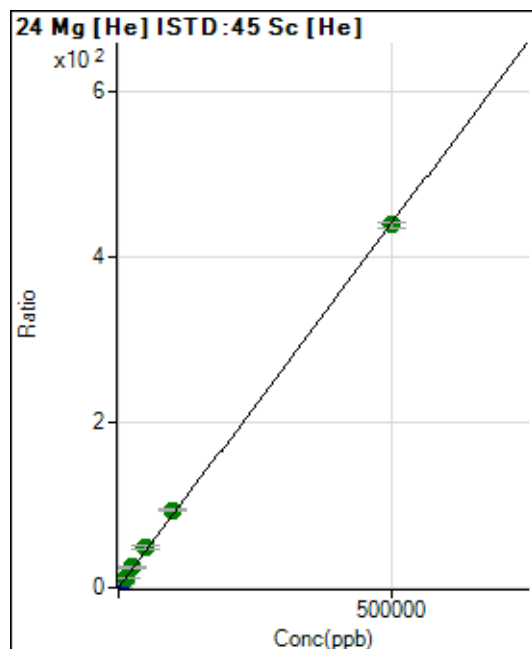
$$R = 1.0000$$

$$DL = 4.196$$

$$BEC = 32.6$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	258.34	0.0014	P	8.9
2	☐	500.000	526.966	81610.32	0.4656	P	9.5
3	☐	5000.000	5010.999	816941.58	4.4150	P	1.1
4	☐	12500.000	13588.933	2188821.90	11.9702	A	1.3
5	☐	25000.000	28066.271	4382777.31	24.7216	A	3.8
6	☐	50000.000	55425.824	8561528.58	48.8193	A	8.8
7	☐	100000.00	106279.08	17566842.93	93.6097	A	2.2
8	☐	500000.00	498020.92	86555145.68	438.6472	A	1.3

$$y = 8.8078\text{E-}004 * x + 0.0014$$

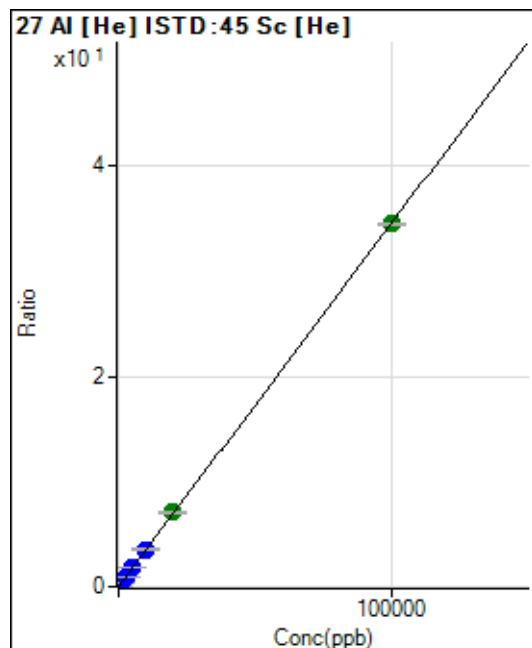
$$R = 0.9999$$

$$DL = 0.4296$$

$$BEC = 1.61$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	60.82	0.0003	P	12.8
2	☐	20.000	19.761	1253.65	0.0072	P	12.7
3	☐	1000.000	994.794	63651.57	0.3440	P	0.4
4	☐	2500.000	2538.114	160359.75	0.8771	P	2.8
5	☐	5000.000	5157.885	315918.36	1.7821	P	3.9
6	☐	10000.000	10289.081	623297.38	3.5546	P	9.0
7	☐	20000.000	20613.966	1336596.73	7.1212	A	2.4
8	☐	100000.00	99839.504	6805496.36	34.4886	A	0.3

$$y = 3.4544\text{E-}004 * x + 3.3374\text{E-}004$$

$$R = 1.0000$$

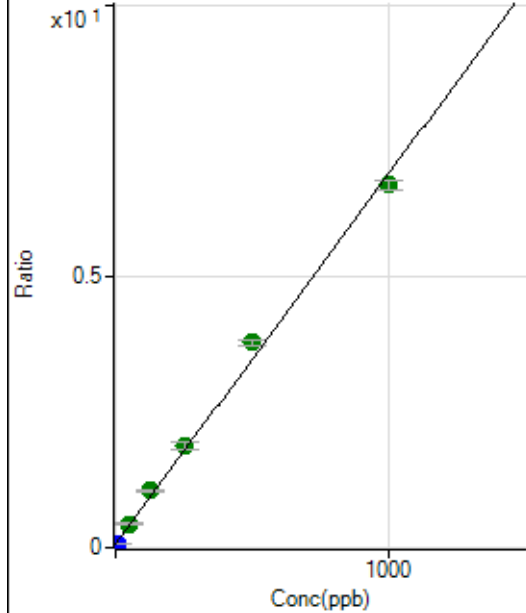
$$DL = 0.3712$$

$$BEC = 0.9661$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	425160.03	0.0642	P	2.2
2	☐	10.000	1.788	500245.59	0.0764	P	0.9
3	☐	50.000	55.445	2993944.64	0.4427	A	2.4
4	☐	125.000	144.466	7033980.19	1.0506	A	2.1
5	☐	250.000	265.877	13051760.88	1.8795	A	7.0
6	☐	500.000	545.036	25764733.39	3.7855	A	2.3
7	☐	1000.000	970.889	47154229.87	6.6932	A	2.7
8	☐			692831.44	0.0967	P	6.3

$$y = 0.0068 * x + 0.0642$$

$$R = 0.9980$$

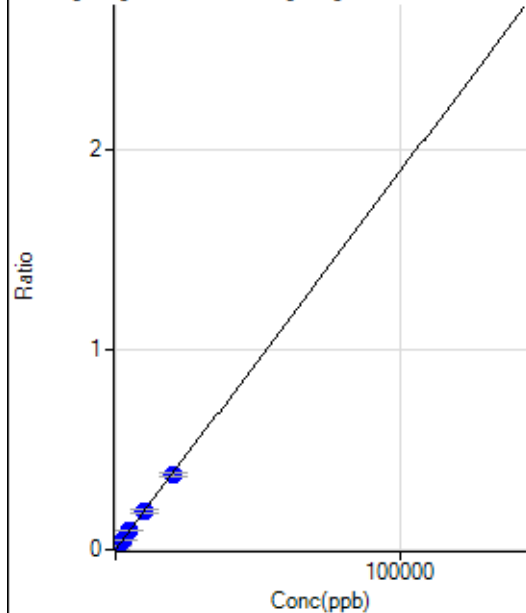
$$DL = 0.6257$$

$$BEC = 9.4$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-5.878	102.78	0.0006	P	26.5
2	☐	0.000	5.878	136.12	0.0008	P	35.7
3	☐	1000.000	919.991	3336.60	0.0180	P	12.4
4	☐	2500.000	2607.650	9119.79	0.0499	P	1.4
5	☐	5000.000	5170.629	17427.61	0.0982	P	1.3
6	☐	10000.000	10260.209	34074.17	0.1942	P	8.8
7	☐	20000.000	19817.782	70294.05	0.3746	P	2.9
8	☐			108.34	0.0005	P	26.2

$$y = 1.8866E-005 * x + 6.7533E-004$$

$$R = 0.9998$$

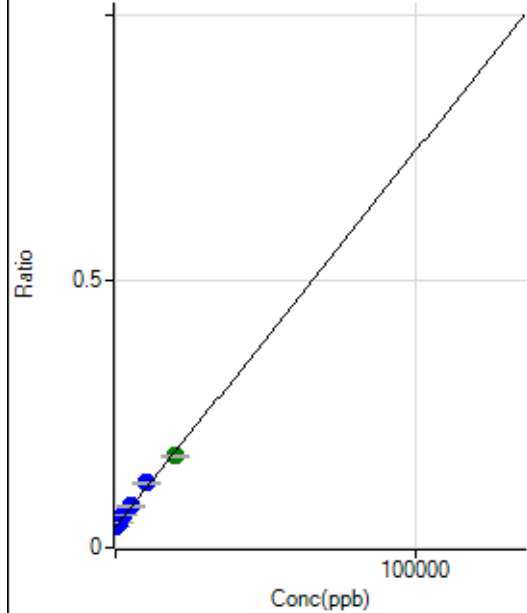
$$DL = 34.16$$

$$BEC = 35.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-78.313	255679.87	0.0386	P	0.9
2	☐	0.000	78.313	259954.23	0.0397	P	0.6
3	☐	1000.000	1110.599	317547.76	0.0470	P	0.6
4	☐	2500.000	3197.693	412542.16	0.0616	P	3.2
5	☐	5000.000	5478.563	539317.36	0.0777	P	6.9
6	☐	10000.000	11694.786	825974.29	0.1214	P	2.2
7	☐	20000.000	18940.225	1213968.40	0.1723	A	2.3
8	☐			230878.11	0.0322	P	5.3

$$y = 7.0307E-006 * x + 0.0391$$

R = 0.9936

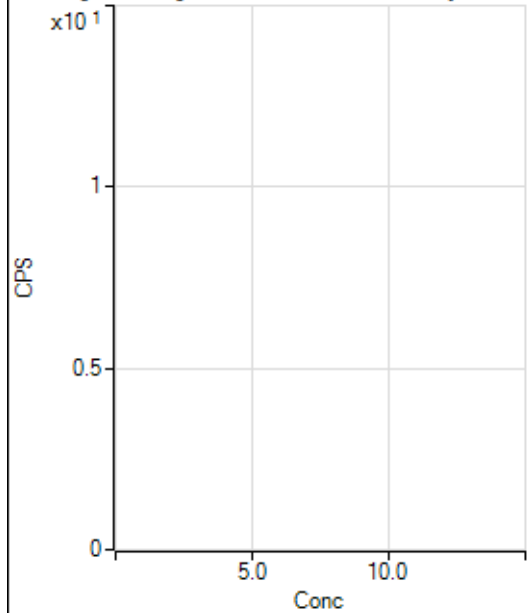
DL = 125.8

BEC = 5568

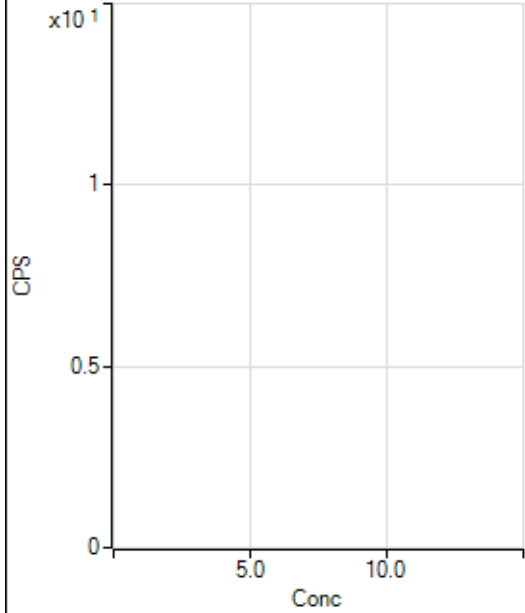
Weight: <None>

Min Conc: 0

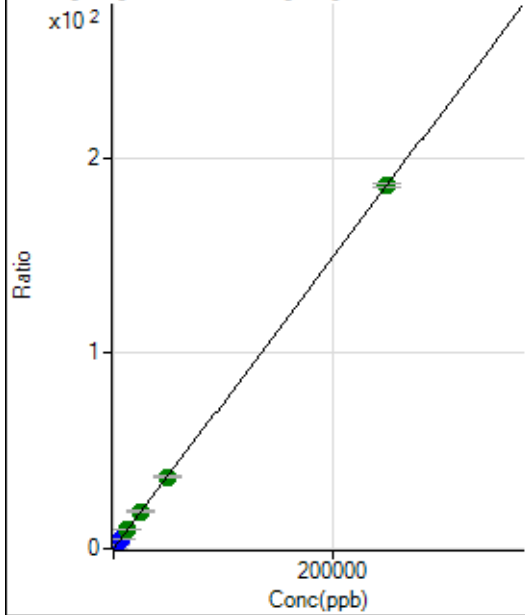
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			110204.00		P	0.2
2	☐			107999.16		P	0.2
3	☐			107263.15		P	1.5
4	☐			110531.59		P	1.0
5	☐			105676.15		P	1.4
6	☐			110315.85		P	1.4
7	☐			117887.48		P	2.4
8	☐			116542.82		P	1.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			802.82		P	8.3
2	☐			775.05		P	11.2
3	☐			752.82		P	15.6
4	☐			797.27		P	22.8
5	☐			736.15		P	9.9
6	☐			719.49		P	17.0
7	☐			875.05		P	10.1
8	☐			850.05		P	7.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13959.91	0.0766	P	3.4
2	☐	500.000	488.080	77084.18	0.4393	P	7.8
3	☐	2500.000	2374.540	340706.23	1.8412	P	0.1
4	☐	6250.000	6243.142	862260.88	4.7161	P	2.9
5	☐	12500.000	12879.747	1710594.29	9.6479	A	4.6
6	☐	25000.000	25559.806	3345596.30	19.0708	A	8.1
7	☐	50000.000	49575.404	6928174.55	36.9175	A	2.8
8	☐	250000.00	250011.40	36675050.12	185.8672	A	1.2

$$y = 7.4313E-004 * x + 0.0766$$

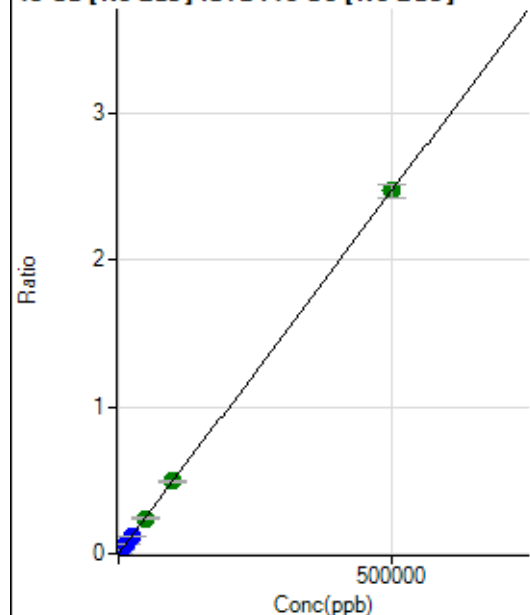
$$R = 1.0000$$

$$DL = 10.61$$

$$BEC = 103.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	204.14	0.0000	P	9.2
2	☐	500.000	477.691	15627.79	0.0024	P	1.2
3	☐	5000.000	4838.364	161558.70	0.0239	P	1.7
4	☐	12500.000	12826.186	423704.09	0.0633	P	1.8
5	☐	25000.000	23801.596	815021.55	0.1174	P	7.7
6	☐	50000.000	48719.149	1635539.17	0.2403	A	2.1
7	☐	100000.00	99603.332	3461998.14	0.4912	A	1.6
8	☐	500000.00	500260.82	17680636.20	2.4669	A	4.0

$$y = 4.9312E-006 * x + 3.0819E-005$$

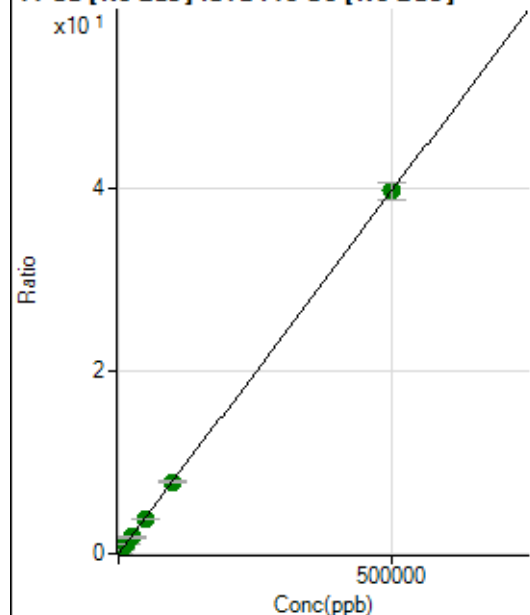
$$R = 1.0000$$

$$DL = 1.725$$

$$BEC = 6.25$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7034.61	0.0011	P	1.9
2	☐	500.000	482.625	257188.00	0.0393	P	0.2
3	☐	5000.000	4827.429	2591836.96	0.3833	A	1.7
4	☐	12500.000	12520.061	6646053.52	0.9923	A	1.1
5	☐	25000.000	23418.122	12877659.48	1.8551	A	8.1
6	☐	50000.000	48352.681	26064605.72	3.8292	A	0.2
7	☐	100000.00	98833.158	55163371.75	7.8259	A	1.9
8	☐	500000.00	500478.43	283950290.0	39.6249	A	4.7

$$y = 7.9172E-005 * x + 0.0011$$

$$R = 1.0000$$

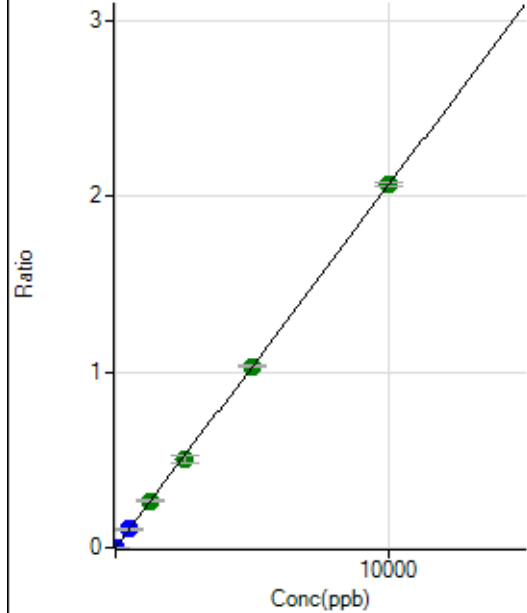
$$DL = 0.7591$$

$$BEC = 13.41$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	208.34	0.0000	P	11.2
2	☐	5.000	4.934	6871.29	0.0010	P	4.2
3	☐	500.000	503.972	703295.86	0.1040	P	0.8
4	☐	1250.000	1296.117	1790246.55	0.2674	A	2.4
5	☐	2500.000	2427.576	3474762.92	0.5008	A	8.9
6	☐	5000.000	5004.780	7027012.05	1.0324	A	0.8
7	☐	10000.000	10009.753	14550109.87	2.0648	A	1.2
8	☐			2336.36	0.0003	P	2.2

$$y = 2.0628\text{E-}004 * x + 3.1428\text{E-}005$$

$$R = 1.0000$$

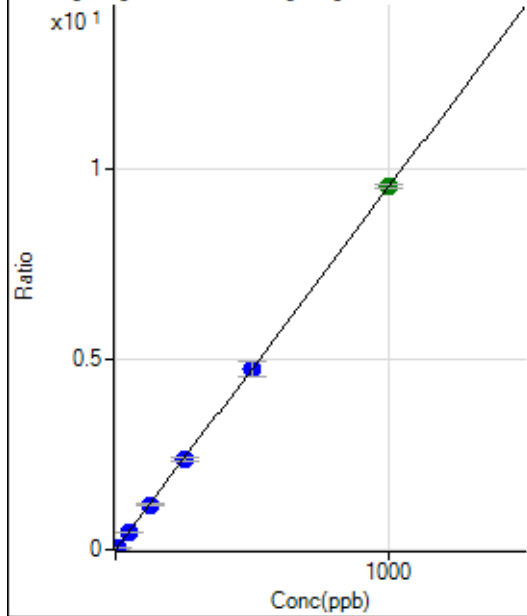
$$DL = 0.05125$$

$$BEC = 0.1524$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.78	0.0000	P	99.4
2	☐	5.000	4.883	8164.62	0.0466	P	9.5
3	☐	50.000	47.026	82928.61	0.4481	P	0.9
4	☐	125.000	122.884	214088.40	1.1710	P	3.2
5	☐	250.000	247.497	418125.13	2.3584	P	3.8
6	☐	500.000	499.756	835237.33	4.7621	P	8.5
7	☐	1000.000	1001.161	1790469.61	9.5398	A	1.0
8	☐			391.12	0.0020	P	3.8

$$y = 0.0095 * x + 4.2781\text{E-}005$$

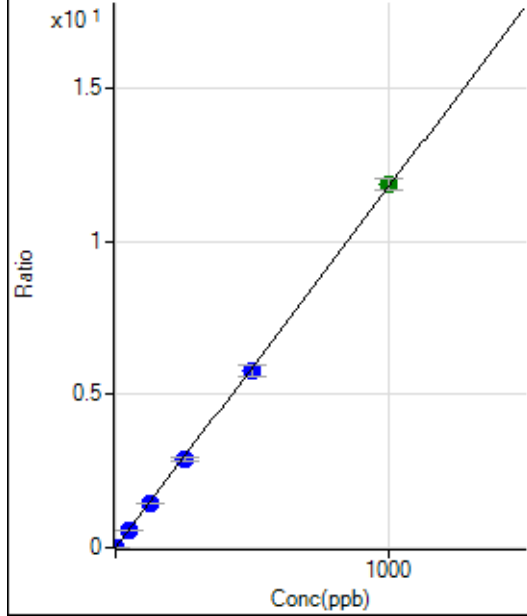
$$R = 1.0000$$

$$DL = 0.01338$$

$$BEC = 0.00449$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	737.80	0.0040	P	0.7
2	☐	2.000	1.969	4759.73	0.0272	P	12.2
3	☐	50.000	46.204	101264.03	0.5472	P	0.7
4	☐	125.000	123.690	266607.10	1.4581	P	2.1
5	☐	250.000	245.698	512632.67	2.8924	P	4.9
6	☐	500.000	490.253	1012363.00	5.7674	P	7.0
7	☐	1000.000	1006.303	2220612.40	11.8340	A	3.0
8	☐			20469.24	0.1037	P	2.3

$$y = 0.0118 * x + 0.0040$$

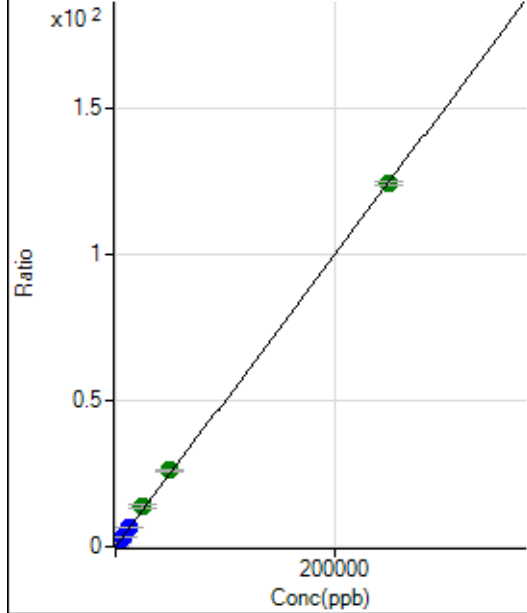
$$R = 0.9999$$

$$DL = 0.006793$$

$$BEC = 0.3444$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	453.72	0.0025	P	9.5
2	☐	50.000	51.429	4923.16	0.0281	P	11.7
3	☐	2500.000	2561.632	236666.89	1.2790	P	0.6
4	☐	6250.000	6589.127	600813.69	3.2860	P	2.2
5	☐	12500.000	13422.880	1186181.51	6.6914	P	4.1
6	☐	25000.000	27897.424	2440468.02	13.9044	A	7.3
7	☐	50000.000	52372.766	4897797.39	26.1010	A	3.0
8	☐	250000.00	249180.46	24502113.51	124.1748	A	1.0

$$y = 4.9832E-004 * x + 0.0025$$

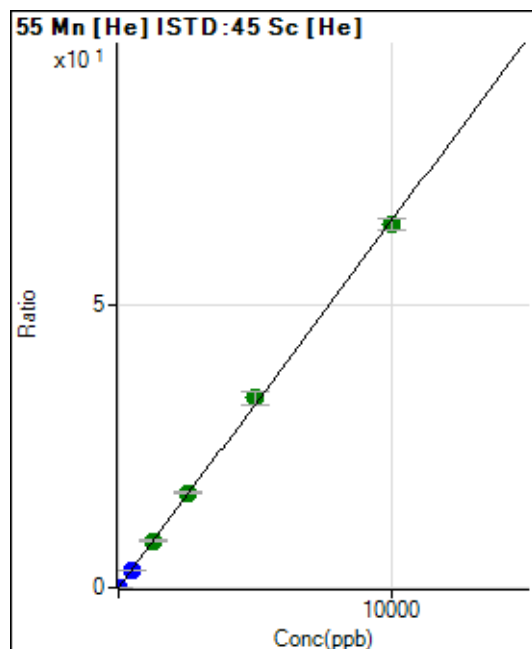
$$R = 0.9999$$

$$DL = 1.43$$

$$BEC = 4.997$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	62.22	0.0003	P	10.9
2	☐	1.000	1.027	1230.07	0.0070	P	12.2
3	☐	500.000	468.152	563679.04	3.0461	P	0.3
4	☐	1250.000	1274.208	1515669.56	8.2903	A	3.2
5	☐	2500.000	2588.287	2985570.51	16.8397	A	3.6
6	☐	5000.000	5174.353	5909162.48	33.6646	A	7.6
7	☐	10000.000	9889.318	12073243.02	64.3401	A	3.2
8	☐			7396.43	0.0375	P	5.3

$$y = 0.0065 * x + 3.4141E-004$$

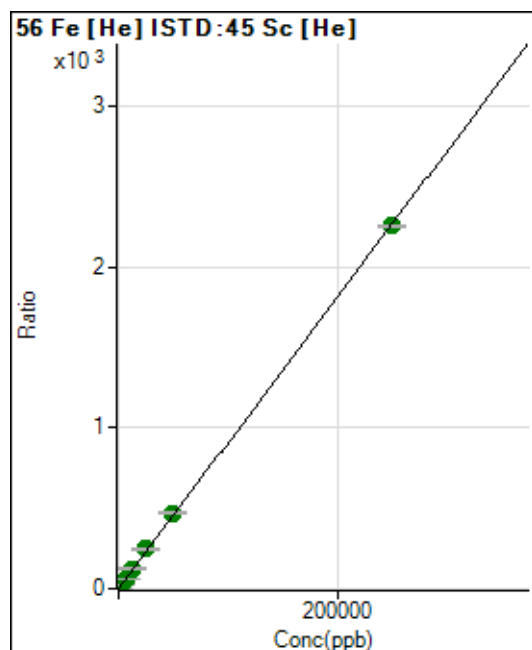
$$R = 0.9997$$

$$DL = 0.01709$$

$$BEC = 0.05248$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3700.53	0.0203	P	2.4
2	☐	50.000	52.893	87630.87	0.4996	P	8.5
3	☐	2500.000	2550.639	4280738.93	23.1332	A	0.6
4	☐	6250.000	6769.648	11219167.27	61.3641	A	2.9
5	☐	12500.000	13715.813	22035571.56	124.3074	A	4.2
6	☐	25000.000	27183.588	43235906.99	246.3469	A	7.6
7	☐	50000.000	52057.935	88525043.64	471.7480	A	2.8
8	☐	250000.00	249295.76	445766861.8	2,259.036	A	0.8

$$y = 0.0091 * x + 0.0203$$

$$R = 0.9999$$

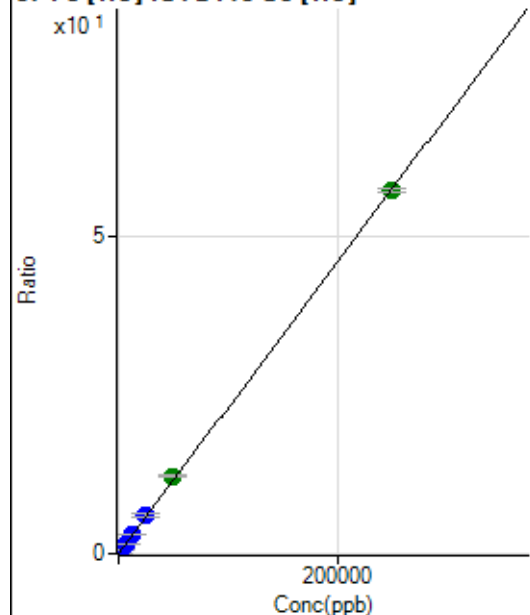
$$DL = 0.1605$$

$$BEC = 2.241$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0007	P	15.2
2	☐	50.000	53.018	2248.36	0.0129	P	13.4
3	☐	2500.000	2480.213	105316.34	0.5691	P	0.2
4	☐	6250.000	6558.194	274948.81	1.5038	P	2.1
5	☐	12500.000	13155.319	534565.59	3.0157	P	4.4
6	☐	25000.000	26123.787	1050342.67	5.9880	P	8.3
7	☐	50000.000	53177.426	2286997.91	12.1883	A	3.4
8	☐	250000.00	249211.86	11270282.77	57.1170	A	1.1

$$y = 2.2919E-004 * x + 7.0136E-004$$

$$R = 0.9999$$

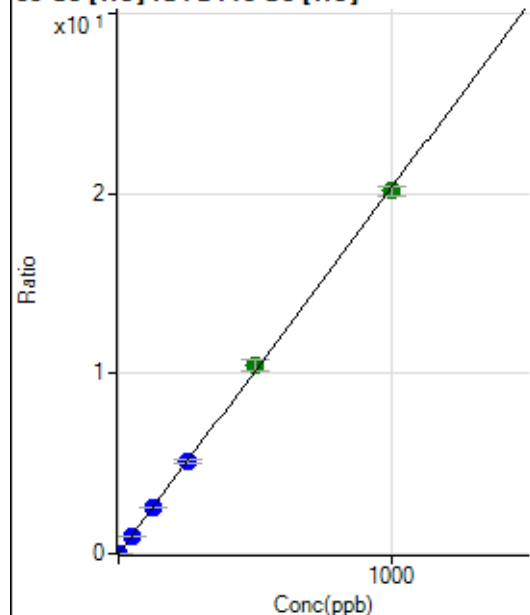
$$DL = 1.394$$

$$BEC = 3.06$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46.67	0.0003	P	19.2
2	☐	1.000	1.043	3771.65	0.0214	P	2.9
3	☐	50.000	48.519	182446.28	0.9859	P	0.3
4	☐	125.000	126.574	470216.08	2.5717	P	2.2
5	☐	250.000	251.856	906940.87	5.1169	P	4.7
6	☐	500.000	515.673	1840256.83	10.4765	A	5.8
7	☐	1000.000	991.577	3780277.10	20.1449	A	2.8
8	☐			10159.27	0.0515	P	0.9

$$y = 0.0203 * x + 2.5620E-004$$

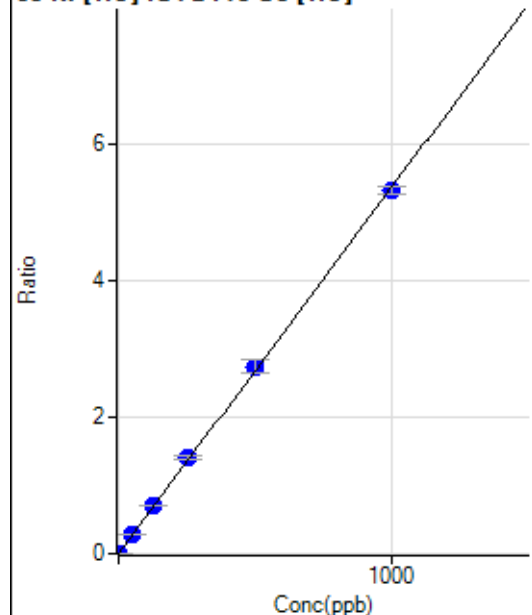
$$R = 0.9998$$

$$DL = 0.007247$$

$$BEC = 0.01261$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.11	0.0002	P	12.2
2	☐	1.000	1.129	1101.16	0.0063	P	7.7
3	☐	50.000	50.622	50176.06	0.2711	P	0.7
4	☐	125.000	131.745	128965.19	0.7053	P	1.7
5	☐	250.000	260.396	247096.44	1.3938	P	4.0
6	☐	500.000	511.429	480422.13	2.7373	P	7.3
7	☐	1000.000	990.812	995172.24	5.3030	P	2.2
8	☐			8361.41	0.0424	P	2.9

$$y = 0.0054 * x + 2.2559E-004$$

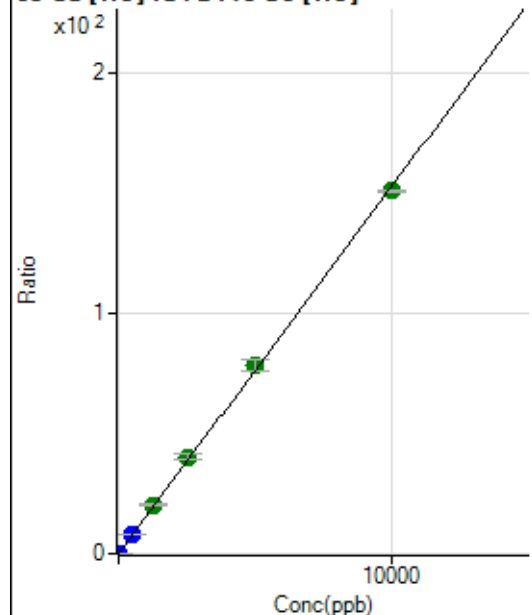
$$R = 0.9998$$

$$DL = 0.01538$$

$$BEC = 0.04215$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	571.13	0.0031	P	10.0
2	☐	2.000	2.176	6353.71	0.0363	P	11.9
3	☐	500.000	502.338	1417336.00	7.6596	P	0.9
4	☐	1250.000	1331.770	3712140.29	20.3015	A	1.4
5	☐	2500.000	2639.119	7129139.13	40.2276	A	5.4
6	☐	5000.000	5135.694	13742420.77	78.2794	A	6.8
7	☐	10000.000	9887.035	28284702.36	150.6975	A	0.8
8	☐			9159.76	0.0464	P	7.0

$$y = 0.0152 * x + 0.0031$$

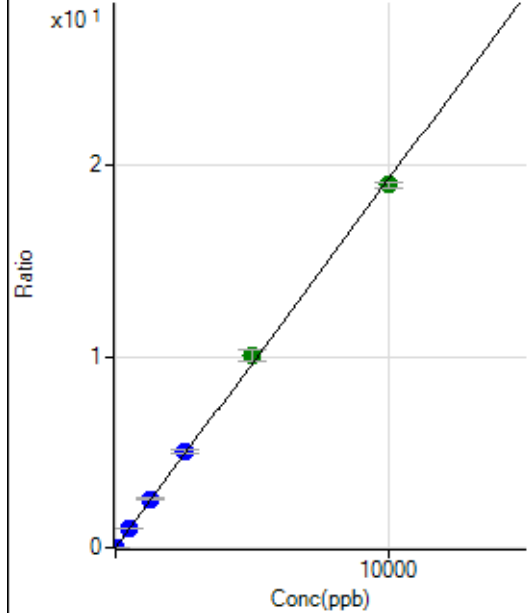
$$R = 0.9997$$

$$DL = 0.06191$$

$$BEC = 0.2056$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	160.00	0.0009	P	2.1
2	☐	2.000	2.475	994.49	0.0056	P	2.9
3	☐	500.000	509.875	181914.75	0.9830	P	1.6
4	☐	1250.000	1328.555	468061.41	2.5600	P	2.3
5	☐	2500.000	2622.541	895584.35	5.0525	P	4.4
6	☐	5000.000	5221.091	1766536.55	10.0579	A	5.9
7	☐	10000.000	9848.506	3560429.46	18.9713	A	1.5
8	☐			7311.96	0.0371	P	3.2

$$y = 0.0019 * x + 8.7811E-004$$

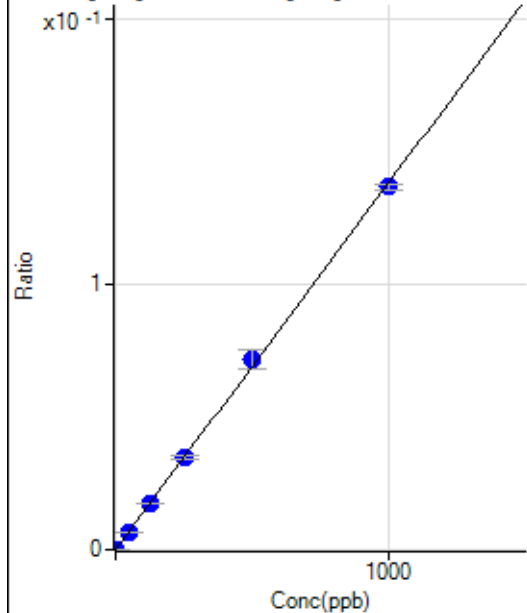
$$R = 0.9995$$

$$DL = 0.02805$$

$$BEC = 0.4559$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.00	0.0000	P	1.5
2	☐	1.000	1.052	222.69	0.0001	P	5.9
3	☐	50.000	48.379	10522.64	0.0067	P	0.9
4	☐	125.000	126.705	27132.35	0.0175	P	0.9
5	☐	250.000	252.562	52580.40	0.0349	P	4.3
6	☐	500.000	519.472	104800.30	0.0718	P	9.7
7	☐	1000.000	989.491	216139.40	0.1367	P	1.6
8	☐			95.68	0.0001	P	3.8

$$y = 1.3819E-004 * x + 3.2253E-006$$

$$R = 0.9997$$

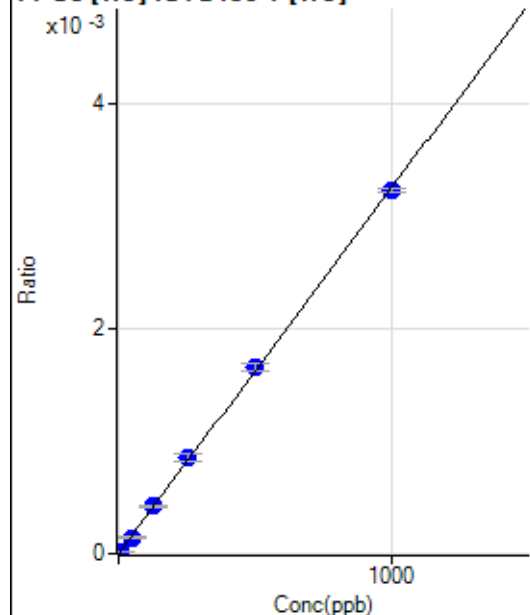
$$DL = 0.001077$$

$$BEC = 0.02334$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.330	25.56	0.0000	P	45.3
3	☐	50.000	43.571	223.34	0.0001	P	9.1
4	☐	125.000	129.673	654.47	0.0004	P	6.0
5	☐	250.000	262.172	1285.63	0.0009	P	7.6
6	☐	500.000	509.591	2431.35	0.0017	P	5.0
7	☐	1000.000	991.897	5108.75	0.0032	P	1.1
8	☐			3.33	0.0000	P	100.6

$$y = 3.2581\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

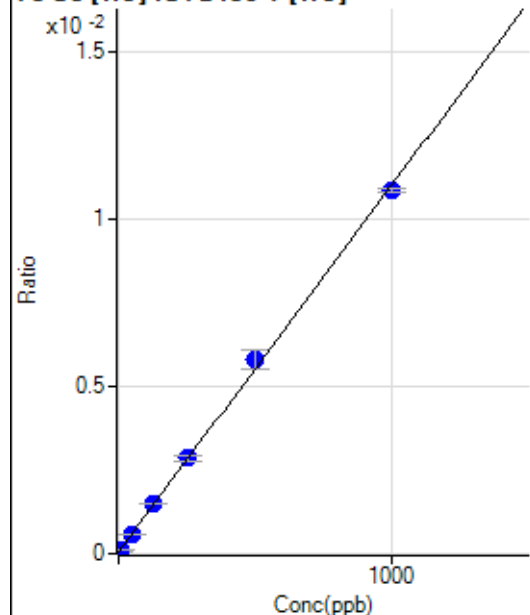
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	89.01	0.0001	P	18.1
2	☐	5.000	6.030	185.35	0.0001	P	9.1
3	☐	50.000	47.607	910.46	0.0006	P	1.9
4	☐	125.000	130.020	2294.42	0.0015	P	0.9
5	☐	250.000	254.825	4287.76	0.0028	P	6.0
6	☐	500.000	526.006	8488.75	0.0058	P	10.2
7	☐	1000.000	985.278	17143.81	0.0108	P	1.2
8	☐			93.68	0.0001	P	15.5

$$y = 1.0950\text{E-}005 * x + 5.7442\text{E-}005$$

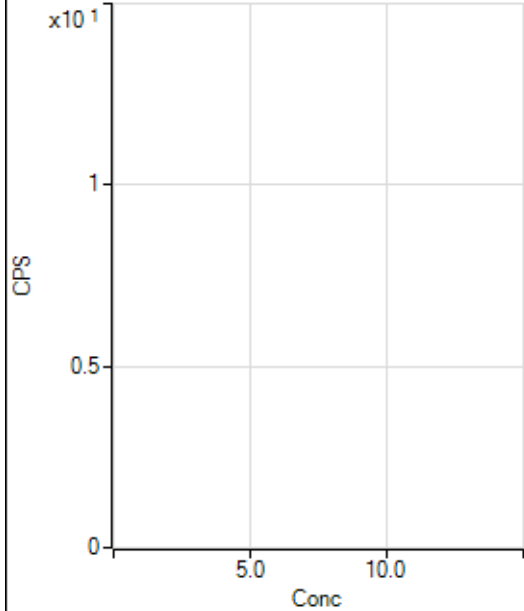
$$R = 0.9995$$

$$DL = 2.856$$

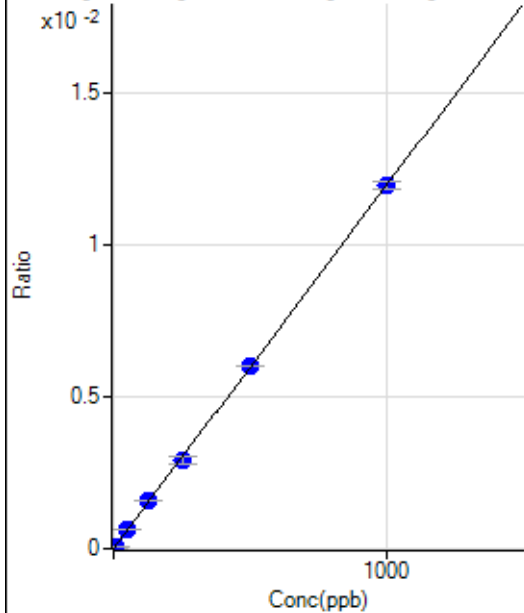
$$BEC = 5.246$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			43349.68		P	5.0
2	☐			44112.66		P	2.4
3	☐			44986.54		P	4.6
4	☐			43162.16		P	2.8
5	☐			40882.74		P	5.6
6	☐			40210.34		P	6.1
7	☐			41478.42		P	3.3
8	☐			44503.78		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-6.66	0.0000	P	-1084.
2	☐	5.000	4.855	896.04	0.0001	P	7.4
3	☐	50.000	51.740	9715.47	0.0006	P	1.8
4	☐	125.000	133.888	25182.84	0.0016	P	0.8
5	☐	250.000	244.070	47492.46	0.0029	P	10.1
6	☐	500.000	503.059	94985.75	0.0060	P	0.8
7	☐	1000.000	998.756	191933.19	0.0120	P	2.3
8	☐			348.42	0.0000	P	36.5

$$y = 1.1972E-005 * x - 3.9458E-007$$

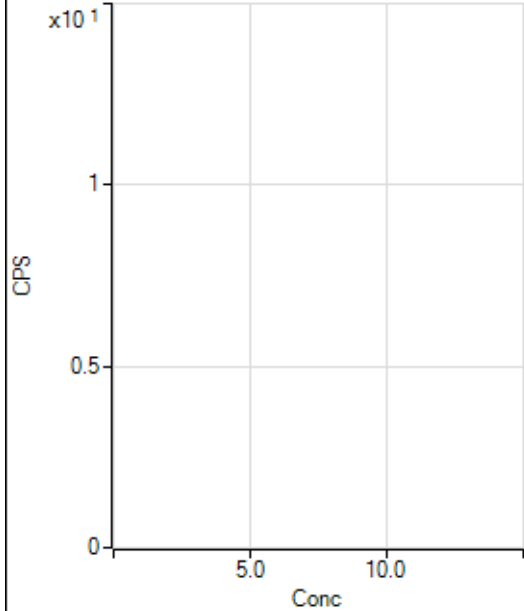
$$R = 0.9999$$

$$DL = 1.072$$

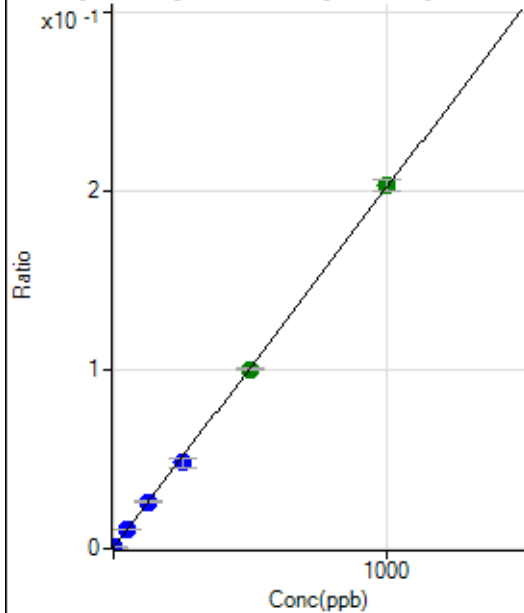
$$BEC = -0.03296$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4763.14		P	1.7
2	☐			4776.07		P	0.5
3	☐			4834.82		P	0.7
4	☐			4742.30		P	0.6
5	☐			4616.44		P	1.3
6	☐			4381.40		P	2.0
7	☐			4597.69		P	2.6
8	☐			4974.44		P	2.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7349.33	0.0005	P	3.2
2	☐	1.000	0.905	10298.52	0.0007	P	3.1
3	☐	50.000	49.425	163803.32	0.0104	P	1.5
4	☐	125.000	127.747	411863.70	0.0262	P	1.2
5	☐	250.000	235.678	779696.63	0.0479	P	9.5
6	☐	500.000	496.439	1584620.35	0.1005	A	0.9
7	☐	1000.000	1005.046	3256620.34	0.2029	A	3.2
8	☐			30035.84	0.0018	P	2.9

$$y = 2.0139E-004 * x + 4.8161E-004$$

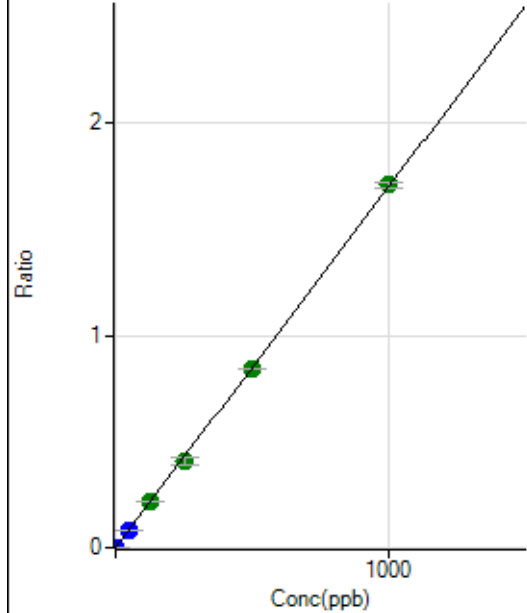
$$R = 0.9999$$

$$DL = 0.2327$$

$$BEC = 2.391$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	236.12	0.0000	P	17.2
2	☐	1.000	0.985	26247.59	0.0017	P	3.7
3	☐	50.000	50.349	1345104.75	0.0857	P	0.9
4	☐	125.000	129.250	3456719.48	0.2200	A	1.0
5	☐	250.000	238.178	6594154.79	0.4053	A	8.7
6	☐	500.000	494.270	13267558.02	0.8411	A	0.2
7	☐	1000.000	1005.272	27469029.26	1.7107	A	1.3
8	☐			192687.11	0.0116	P	4.1

$$y = 0.0017 * x + 1.5466E-005$$

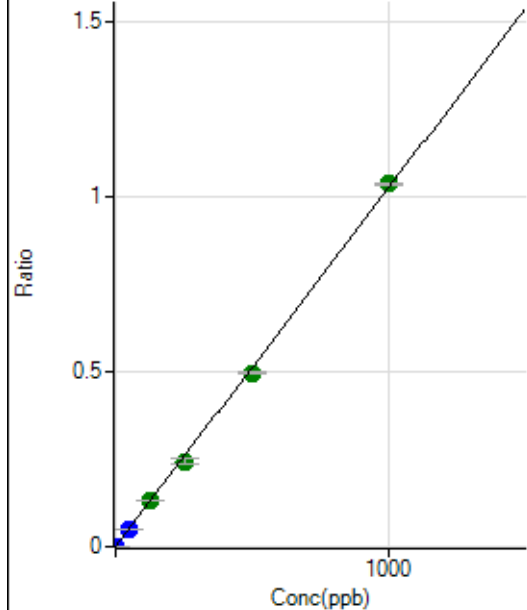
$$R = 0.9999$$

$$DL = 0.00468$$

$$BEC = 0.009088$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	633.36	0.0000	P	21.3
2	☐	1.000	0.944	15631.46	0.0010	P	1.7
3	☐	50.000	48.996	787888.66	0.0502	P	0.1
4	☐	125.000	127.710	2055178.34	0.1308	A	0.5
5	☐	250.000	236.699	3945282.56	0.2423	A	7.4
6	☐	500.000	483.385	7805639.15	0.4949	A	1.5
7	☐	1000.000	1011.344	16625057.14	1.0353	A	0.2
8	☐			7538.32	0.0005	P	2.1

$$y = 0.0010 * x + 4.1541E-005$$

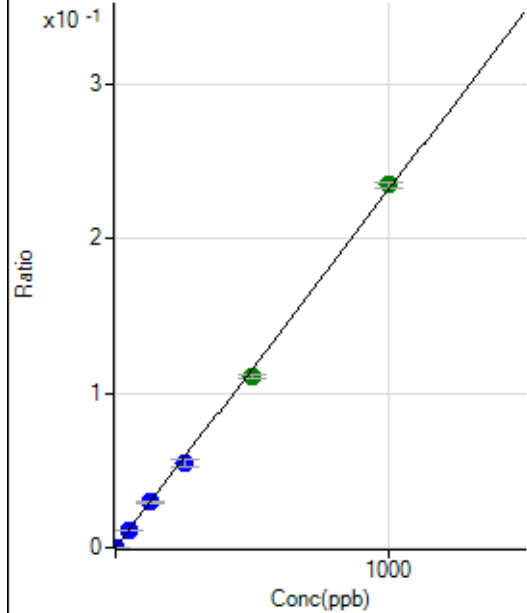
$$R = 0.9997$$

$$DL = 0.02589$$

$$BEC = 0.04058$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	108.34	0.0000	P	37.7
2	☐	1.000	0.965	3575.56	0.0002	P	3.0
3	☐	50.000	47.842	173988.86	0.0111	P	3.0
4	☐	125.000	126.628	460966.88	0.0293	P	1.1
5	☐	250.000	234.540	883530.53	0.0543	P	9.1
6	☐	500.000	479.305	1750823.67	0.1110	A	1.9
7	☐	1000.000	1014.117	3770285.33	0.2349	A	1.8
8	☐			1819.62	0.0001	P	5.7

$$y = 2.3158\text{E-}004 * x + 7.0763\text{E-}006$$

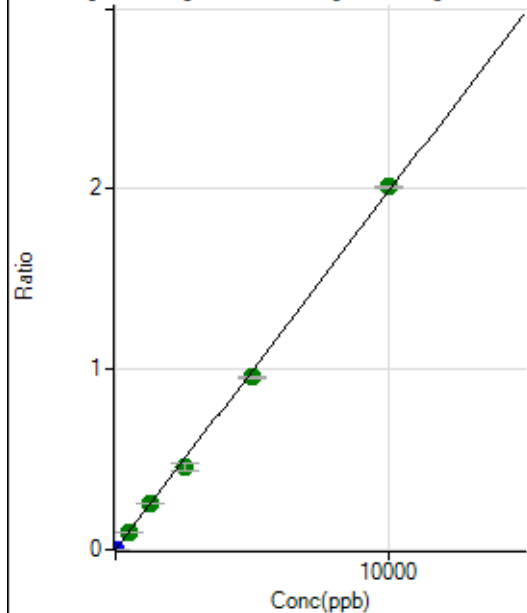
$$R = 0.9995$$

$$DL = 0.03452$$

$$BEC = 0.03056$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	216.68	0.0000	P	16.0
2	☐	5.000	5.860	18262.44	0.0012	P	2.7
3	☐	500.000	494.133	1539682.00	0.0981	A	1.3
4	☐	1250.000	1274.320	3975555.30	0.2530	A	0.5
5	☐	2500.000	2323.379	7500796.96	0.4612	A	9.2
6	☐	5000.000	4823.977	15103824.12	0.9576	A	1.2
7	☐	10000.000	10129.420	32284986.49	2.0107	A	0.6
8	☐			10509.78	0.0006	P	6.0

$$y = 1.9850\text{E-}004 * x + 1.4167\text{E-}005$$

$$R = 0.9996$$

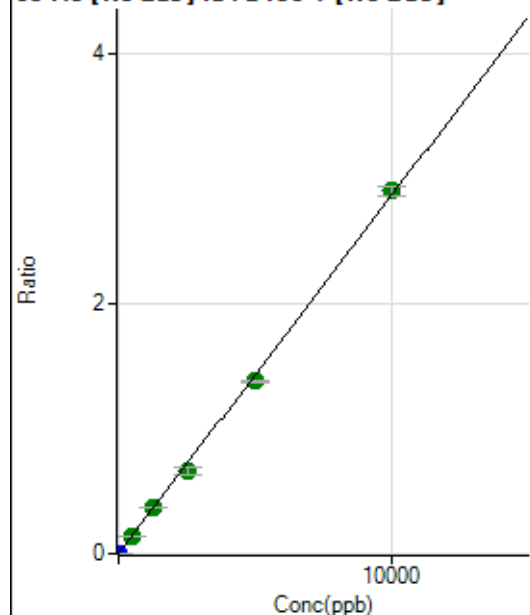
$$DL = 0.03428$$

$$BEC = 0.07137$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.11	0.0000	P	41.8
2	☐	5.000	4.886	21839.91	0.0014	P	0.6
3	☐	500.000	497.892	2240065.89	0.1427	A	1.3
4	☐	1250.000	1271.100	5725902.13	0.3644	A	0.6
5	☐	2500.000	2310.826	10771028.98	0.6624	A	9.5
6	☐	5000.000	4822.154	21801733.99	1.3822	A	1.2
7	☐	10000.000	10133.684	46627482.29	2.9047	A	2.6
8	☐			11719.18	0.0007	P	5.6

$$y = 2.8664\text{E-}004 * x + 7.2491\text{E-}006$$

$$R = 0.9995$$

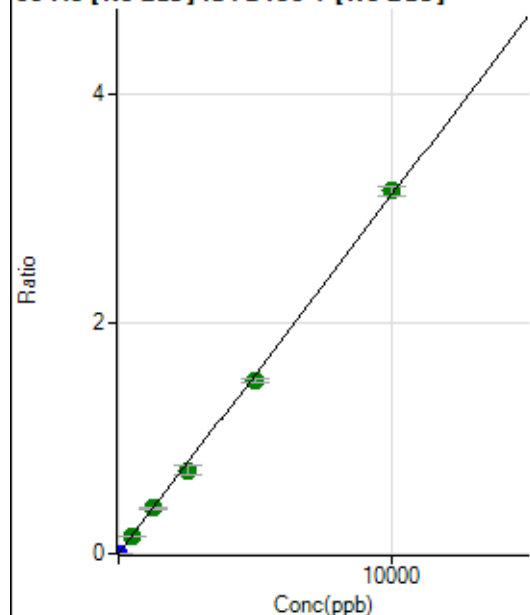
$$DL = 0.03168$$

$$BEC = 0.02529$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1302.89	0.0001	P	6.1
2	☐	5.000	5.037	25657.62	0.0017	P	3.1
3	☐	500.000	495.400	2422892.98	0.1544	A	1.9
4	☐	1250.000	1260.535	6171166.28	0.3927	A	0.3
5	☐	2500.000	2330.846	11802621.01	0.7260	A	10.0
6	☐	5000.000	4840.123	23777477.62	1.5075	A	1.9
7	☐	10000.000	10121.140	50601353.21	3.1523	A	2.4
8	☐			42943.04	0.0026	P	3.0

$$y = 3.1144\text{E-}004 * x + 8.5287\text{E-}005$$

$$R = 0.9996$$

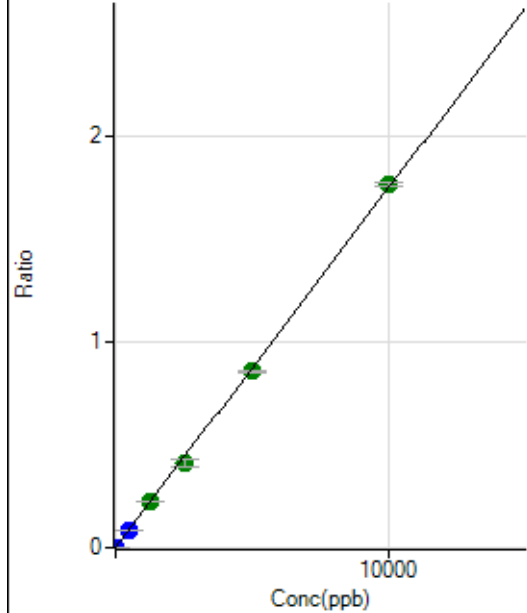
$$DL = 0.05025$$

$$BEC = 0.2738$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	15.0
2	☐	5.000	5.046	13760.05	0.0009	P	3.0
3	☐	500.000	498.316	1369826.03	0.0873	P	0.9
4	☐	1250.000	1275.742	3511441.83	0.2234	A	0.4
5	☐	2500.000	2327.964	6631623.19	0.4077	A	9.0
6	☐	5000.000	4907.621	13556909.33	0.8595	A	0.8
7	☐	10000.000	10086.065	28360879.11	1.7664	A	1.2
8	☐			7429.97	0.0004	P	4.5

$$y = 1.7513E-004 * x + 3.2698E-006$$

$$R = 0.9997$$

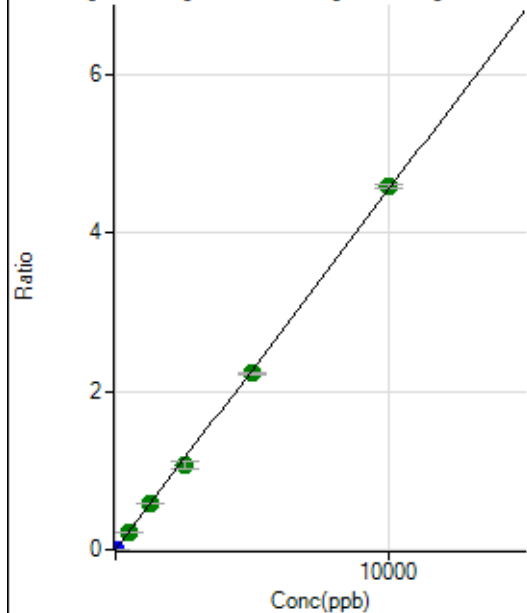
$$DL = 0.008417$$

$$BEC = 0.01867$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	580.58	0.0000	P	10.6
2	☐	5.000	4.918	35254.03	0.0023	P	1.8
3	☐	500.000	491.744	3507463.97	0.2235	A	1.7
4	☐	1250.000	1272.344	9086483.89	0.5782	A	0.4
5	☐	2500.000	2352.547	17387284.07	1.0690	A	9.1
6	☐	5000.000	4909.332	35185228.91	2.2307	A	1.1
7	☐	10000.000	10079.817	73537596.78	4.5801	A	0.9
8	☐			17147.12	0.0010	P	3.2

$$y = 4.5438E-004 * x + 3.8038E-005$$

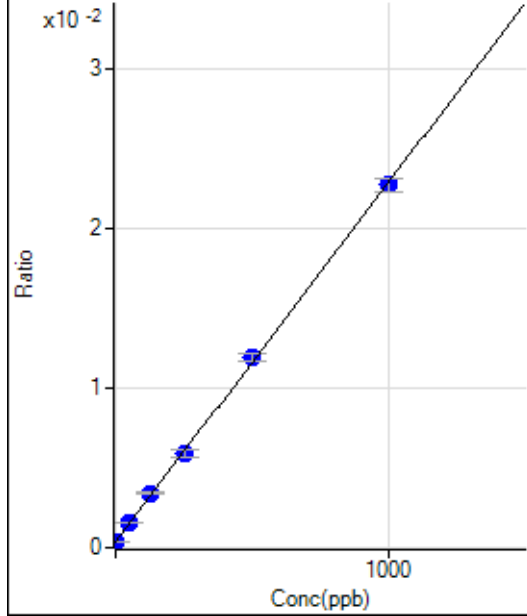
$$R = 0.9998$$

$$DL = 0.02658$$

$$BEC = 0.08371$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3831.20	0.0004	P	9.5
2	☐	1.000	1.396	4153.51	0.0004	P	4.5
3	☐	50.000	53.731	16919.14	0.0016	P	2.9
4	☐	125.000	134.946	37192.77	0.0034	P	2.6
5	☐	250.000	245.771	67390.27	0.0059	P	7.5
6	☐	500.000	512.931	131721.79	0.0119	P	3.3
7	☐	1000.000	993.161	257305.37	0.0227	P	4.0
8	☐			4270.24	0.0004	P	2.0

$$y = 2.2475E-005 * x + 3.6585E-004$$

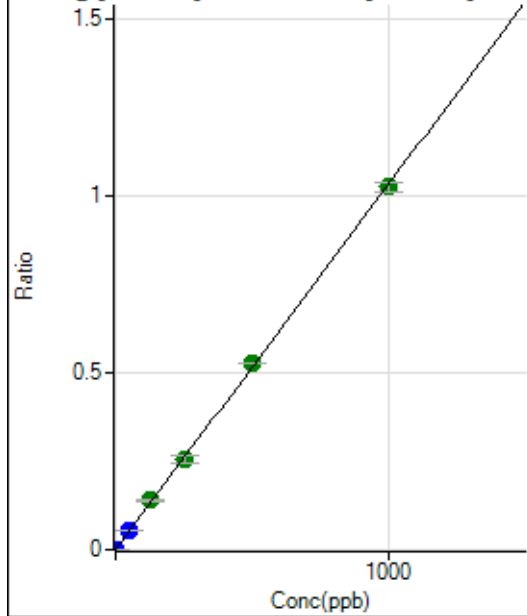
$$R = 0.9998$$

$$DL = 4.646$$

$$BEC = 16.28$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	227.79	0.0000	P	11.6
2	☐	1.000	1.056	11616.33	0.0011	P	7.7
3	☐	50.000	53.781	597620.40	0.0556	P	0.9
4	☐	125.000	134.858	1524712.45	0.1393	A	2.5
5	☐	250.000	248.083	2932708.59	0.2563	A	7.2
6	☐	500.000	512.061	5858858.81	0.5290	A	0.3
7	☐	1000.000	993.027	11636029.08	1.0258	A	2.7
8	☐			3806.19	0.0003	P	4.7

$$y = 0.0010 * x + 2.1747E-005$$

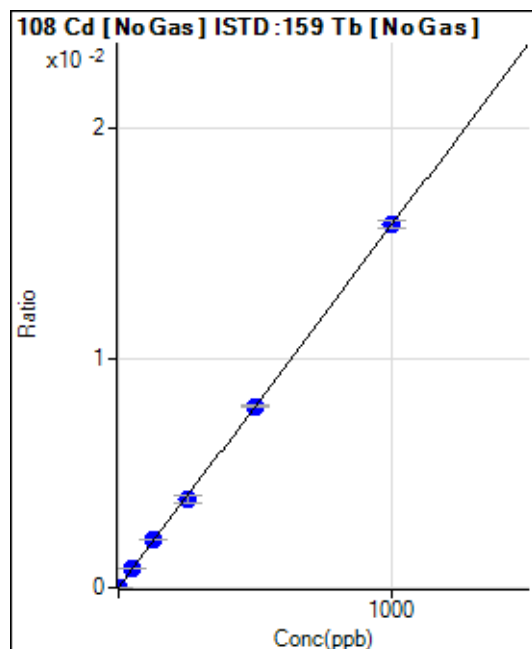
$$R = 0.9998$$

$$DL = 0.007331$$

$$BEC = 0.02105$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	119.45	0.0000	P	33.3
2	☐	1.000	1.020	287.51	0.0000	P	4.6
3	☐	50.000	53.177	9155.93	0.0009	P	3.1
4	☐	125.000	133.500	23210.02	0.0021	P	1.2
5	☐	250.000	242.987	44037.15	0.0038	P	8.0
6	☐	500.000	499.547	87523.12	0.0079	P	1.1
7	☐	1000.000	1000.759	179458.80	0.0158	P	2.2
8	☐			151.39	0.0000	P	7.7

$$y = 1.5795E-005 * x + 1.1397E-005$$

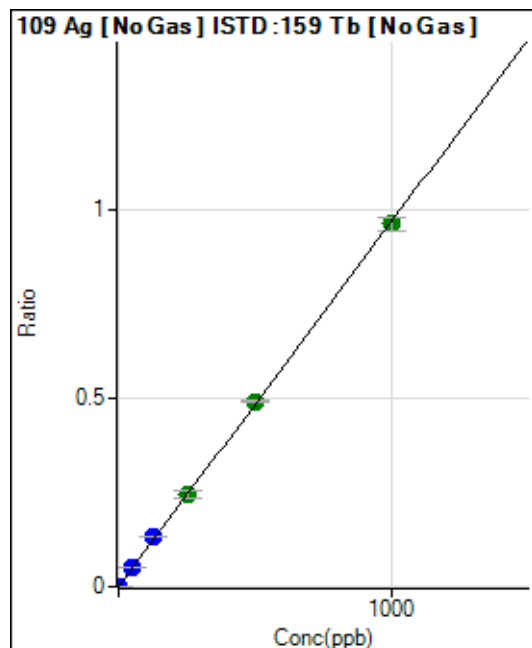
$$R = 0.9999$$

$$DL = 0.721$$

$$BEC = 0.7216$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	197.23	0.0000	P	39.3
2	☐	1.000	1.068	10982.44	0.0011	P	5.1
3	☐	50.000	54.119	562615.03	0.0523	P	3.1
4	☐	125.000	138.623	1466551.31	0.1340	P	1.3
5	☐	250.000	252.755	2794801.19	0.2443	A	8.2
6	☐	500.000	507.541	5433543.66	0.4906	A	1.1
7	☐	1000.000	993.632	10892462.48	0.9604	A	3.6
8	☐			3633.93	0.0003	P	3.6

$$y = 9.6649E-004 * x + 1.8837E-005$$

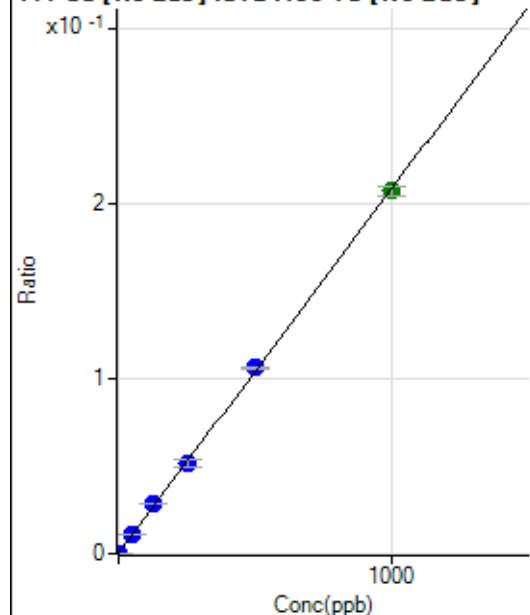
$$R = 0.9999$$

$$DL = 0.02296$$

$$BEC = 0.01949$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2669.06	0.0003	P	10.1
2	☐	1.000	1.105	5064.76	0.0005	P	6.2
3	☐	50.000	53.075	121427.87	0.0113	P	1.0
4	☐	125.000	134.769	309510.96	0.0283	P	1.8
5	☐	250.000	246.204	588903.67	0.0515	P	7.0
6	☐	500.000	509.413	1176156.14	0.1062	P	0.9
7	☐	1000.000	994.867	2349765.70	0.2071	A	2.7
8	☐			3433.21	0.0003	P	0.5

$$y = 2.0795\text{E-}004 * x + 2.5488\text{E-}004$$

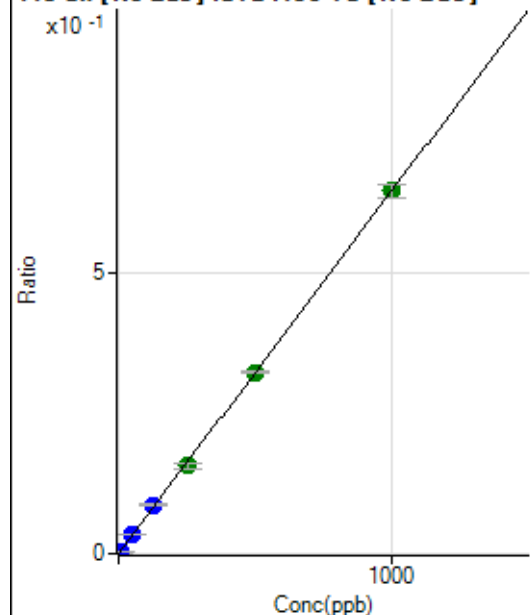
$$R = 0.9999$$

$$DL = 0.3727$$

$$BEC = 1.226$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	702.82	0.0001	P	2.5
2	☐	5.000	5.250	36056.62	0.0034	P	3.9
3	☐	50.000	52.251	362676.23	0.0337	P	1.2
4	☐	125.000	135.020	952622.73	0.0870	P	2.0
5	☐	250.000	242.159	1786738.87	0.1561	A	6.0
6	☐	500.000	499.459	3564346.04	0.3218	A	1.4
7	☐	1000.000	1000.864	7313844.87	0.6448	A	3.6
8	☐			5523.50	0.0005	P	4.7

$$y = 6.4419\text{E-}004 * x + 6.7107\text{E-}005$$

$$R = 0.9999$$

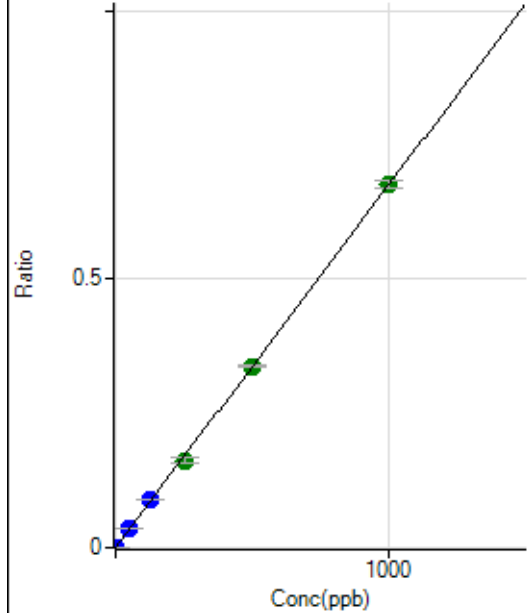
$$DL = 0.007725$$

$$BEC = 0.1042$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	52.5
2	☐	2.000	2.009	14221.59	0.0014	P	3.9
3	☐	50.000	50.741	368155.83	0.0342	P	1.2
4	☐	125.000	131.493	970879.12	0.0887	P	2.0
5	☐	250.000	240.520	1857047.57	0.1623	A	7.0
6	☐	500.000	501.146	3744714.28	0.3381	A	0.7
7	☐	1000.000	1000.948	7660559.55	0.6753	A	2.3
8	☐			3144.90	0.0003	P	9.0

$$y = 6.7463\text{E-}004 * x + 5.2967\text{E-}006$$

$$R = 0.9999$$

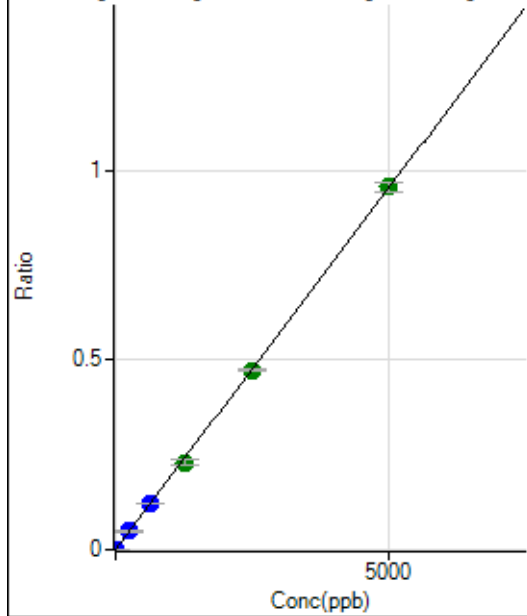
$$DL = 0.01237$$

$$BEC = 0.007851$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	76.3
2	☐	10.000	9.768	19492.40	0.0019	P	4.5
3	☐	250.000	253.322	518766.82	0.0482	P	2.0
4	☐	625.000	645.409	1345141.70	0.1229	P	1.9
5	☐	1250.000	1199.689	2614886.19	0.2285	A	6.8
6	☐	2500.000	2483.668	5238664.75	0.4730	A	0.6
7	☐	5000.000	5018.027	10839839.13	0.9556	A	2.8
8	☐			4917.70	0.0004	P	3.6

$$y = 1.9043\text{E-}004 * x + 4.7779\text{E-}006$$

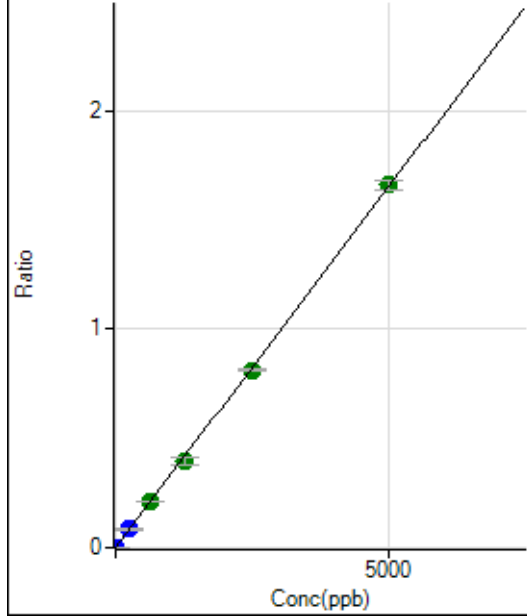
$$R = 0.9999$$

$$DL = 0.0574$$

$$BEC = 0.02509$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	69.45	0.0000	P	27.1
2	☐	10.000	10.110	34943.15	0.0033	P	3.2
3	☐	250.000	253.557	899631.39	0.0837	P	1.9
4	☐	625.000	647.989	2340308.00	0.2138	A	1.5
5	☐	1250.000	1198.706	4524544.55	0.3955	A	7.9
6	☐	2500.000	2460.648	8991774.42	0.8118	A	1.0
7	☐	5000.000	5029.448	18823874.21	1.6593	A	2.7
8	☐			8633.57	0.0007	P	4.7

$$y = 3.2993E-004 * x + 6.6250E-006$$

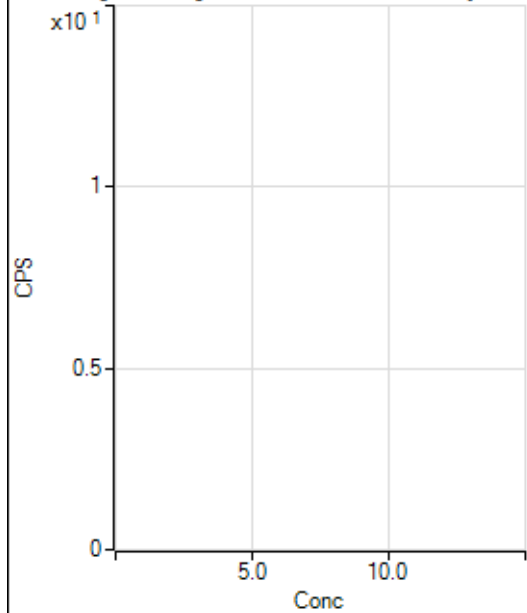
$$R = 0.9999$$

$$DL = 0.01634$$

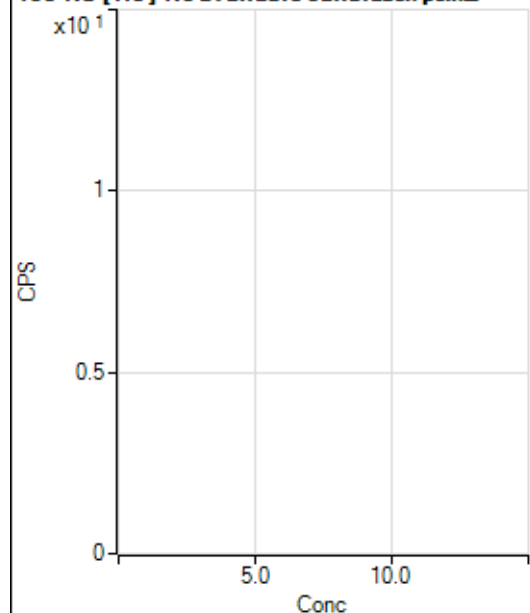
$$BEC = 0.02008$$

Weight: <None>

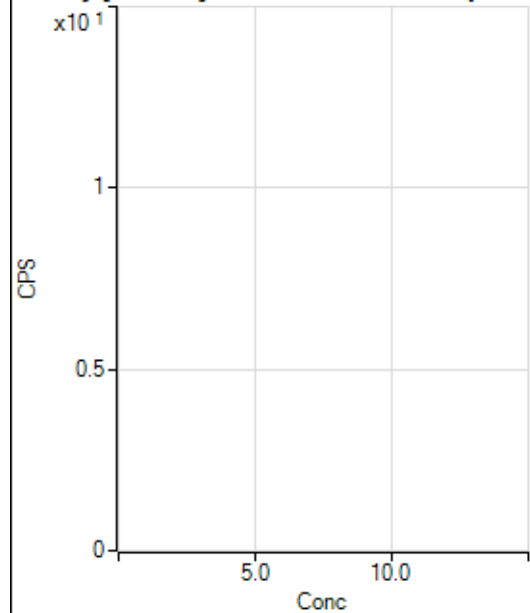
Min Conc: 0

150 Nd [No Gas] No available calibration points

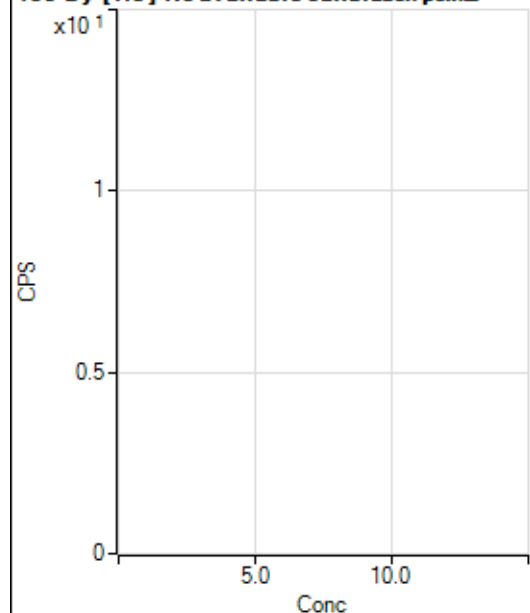
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	114.5
2	☐			4.44		P	173.2
3	☐			42.22		P	39.7
4	☐			97.78		P	17.2
5	☐			157.78		P	4.9
6	☐			368.90		P	10.3
7	☐			664.48		P	6.4
8	☐			108.89		P	24.7

150 Nd [He] No available calibration points

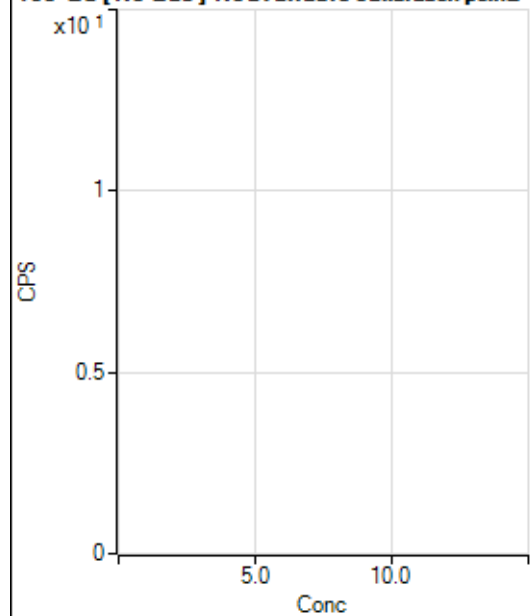
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			8.89		P	57.3
4	☐			2.22		P	173.2
5	☐			13.33		P	43.3
6	☐			32.22		P	43.1
7	☐			58.89		P	8.6
8	☐			25.56		P	45.8

156 Dy [No Gas] No available calibration points

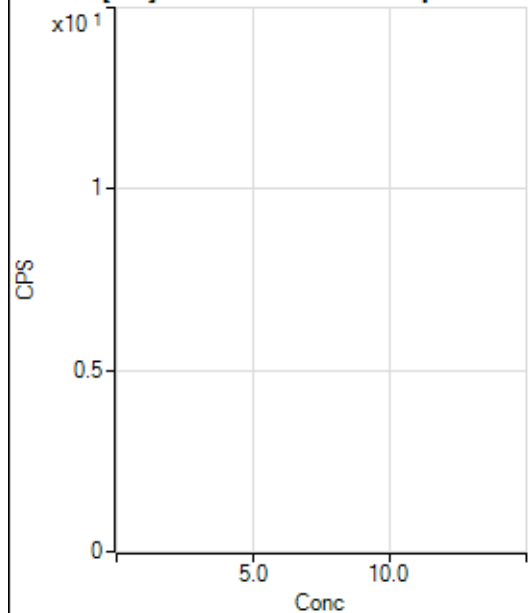
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	65.5
2	☐			8.33		P	173.2
3	☐			50.00		P	44.1
4	☐			88.89		P	19.5
5	☐			116.67		P	25.8
6	☐			211.12		P	12.7
7	☐			469.47		P	22.2
8	☐			1013.95		P	12.6

156 Dy [He] No available calibration points

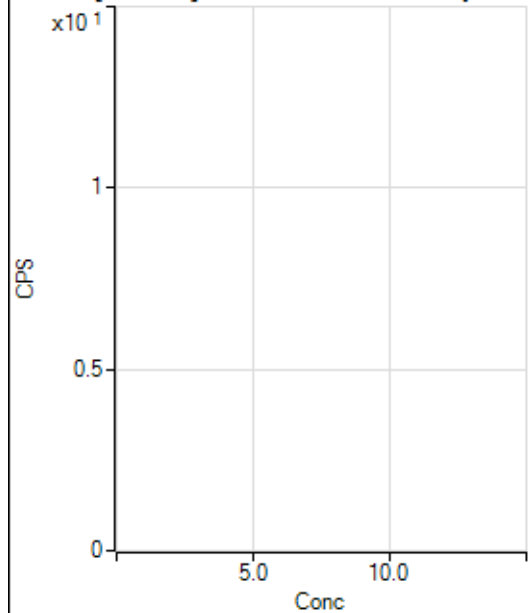
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			4.44		P	43.4
3	☐			8.89		P	78.1
4	☐			16.67		P	40.0
5	☐			36.67		P	32.8
6	☐			76.67		P	37.7
7	☐			177.78		P	19.0
8	☐			302.23		P	5.0

160 Gd [No Gas] Noavailable calibration poin_

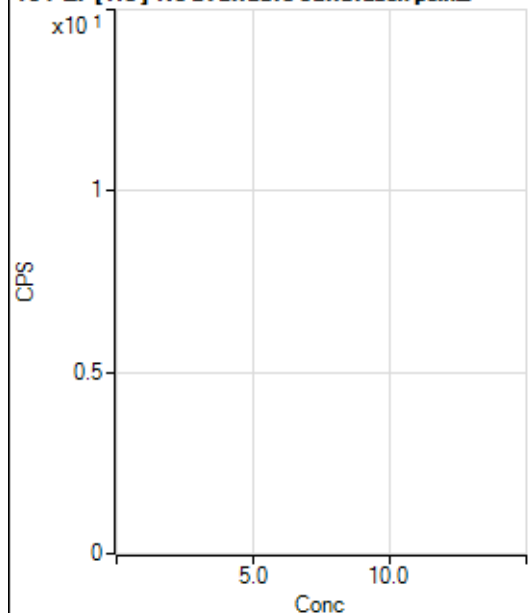
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			52.78		P	45.6
2	☐			58.33		P	24.7
3	☐			61.11		P	20.8
4	☐			116.67		P	14.3
5	☐			150.00		P	36.4
6	☐			208.34		P	18.3
7	☐			422.24		P	18.3
8	☐			769.49		P	5.5

160 Gd [He] No available calibration points

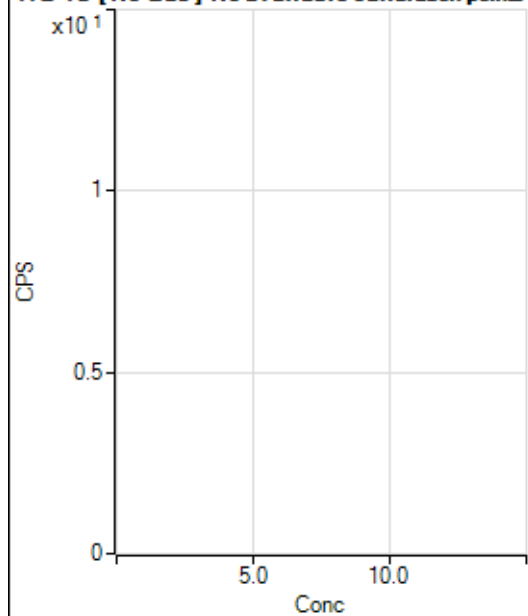
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			57.78		P	33.3
2	☐			60.00		P	16.7
3	☐			70.00		P	28.6
4	☐			81.11		P	9.5
5	☐			88.89		P	20.7
6	☐			148.89		P	9.0
7	☐			180.00		P	3.7
8	☐			352.23		P	15.0

164 Er [No Gas] No available calibration points

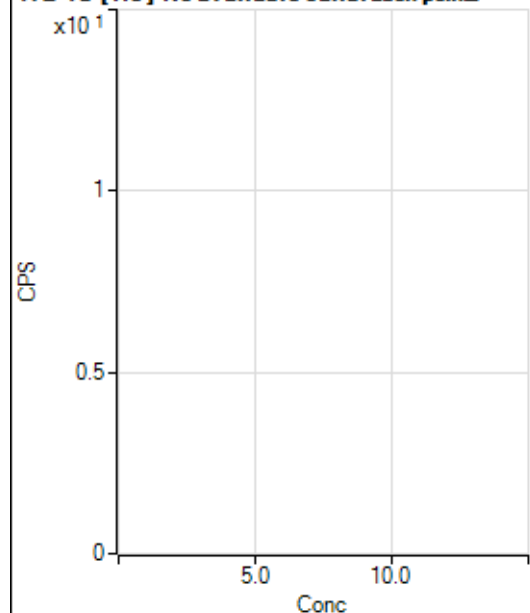
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			66.67		P	12.5
2	☐			83.34		P	45.8
3	☐			97.23		P	47.2
4	☐			94.45		P	31.0
5	☐			119.45		P	26.4
6	☐			136.11		P	24.7
7	☐			188.89		P	15.5
8	☐			172.23		P	15.6

164 Er [He] No available calibration points

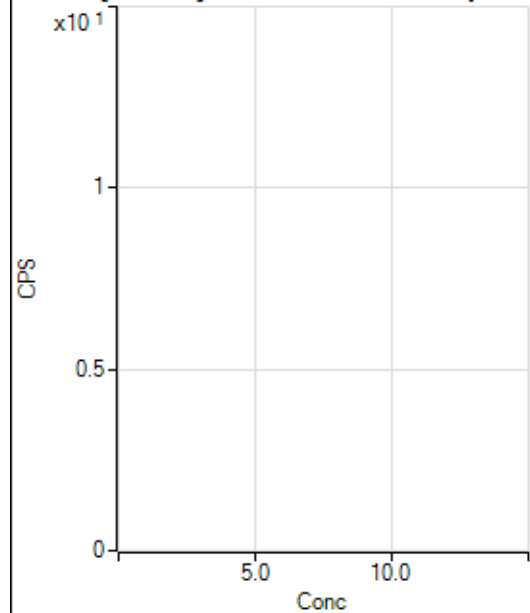
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			31.11		P	59.0
2	☐			36.67		P	32.8
3	☐			47.78		P	14.5
4	☐			34.44		P	24.3
5	☐			37.78		P	22.2
6	☐			43.33		P	40.0
7	☐			60.00		P	20.0
8	☐			45.55		P	15.2

172 Yb [No Gas] No available calibration points

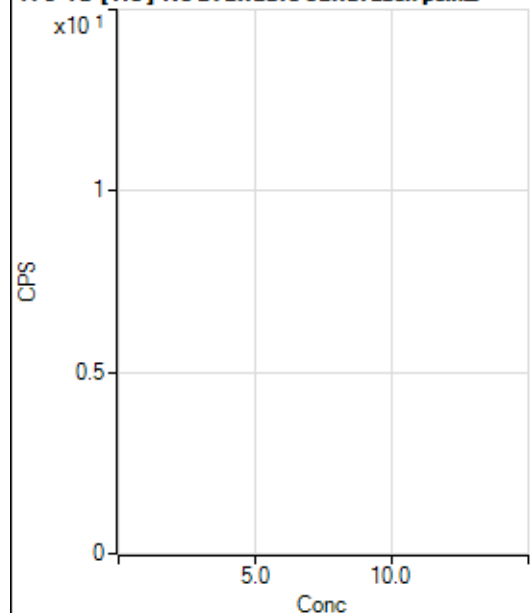
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.23		P	71.3
2	☐			41.67		P	80.0
3	☐			69.45		P	38.6
4	☐			113.89		P	23.5
5	☐			94.45		P	10.2
6	☐			88.89		P	23.6
7	☐			141.67		P	31.1
8	☐			244.45		P	5.2

172 Yb [He] No available calibration points

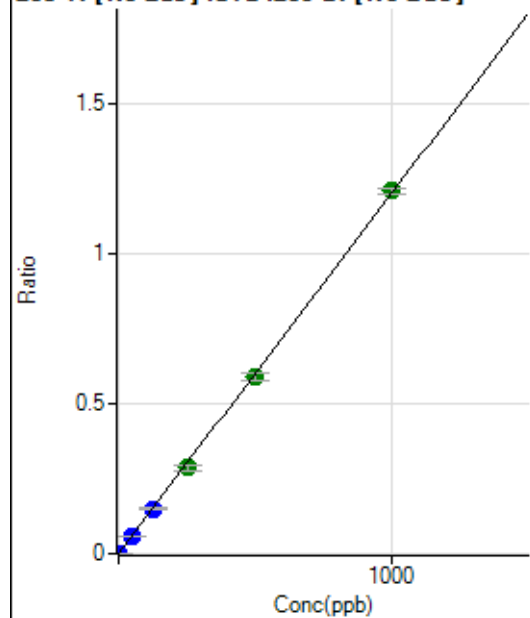
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			24.07		P	13.3
2	☐			18.52		P	75.5
3	☐			33.33		P	44.1
4	☐			22.22		P	25.0
5	☐			31.48		P	66.8
6	☐			38.89		P	24.7
7	☐			53.71		P	21.5
8	☐			81.48		P	14.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1150.08		P	5.8
2	☐			1127.86		P	15.2
3	☐			2736.48		P	3.1
4	☐			5226.19		P	7.7
5	☐			9031.12		P	1.4
6	☐			16496.86		P	3.3
7	☐			33128.53		P	2.2
8	☐			1336.22		P	9.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4224.81		P	6.3
2	☐			4165.55		P	10.2
3	☐			4654.62		P	2.2
4	☐			5764.33		P	5.0
5	☐			7300.30		P	2.6
6	☐			9989.11		P	2.4
7	☐			16710.88		P	2.3
8	☐			4530.48		P	6.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	502.80	0.0001	P	10.7
2	☐	1.000	0.936	7168.90	0.0012	P	4.5
3	☐	50.000	47.474	353447.15	0.0571	P	1.1
4	☐	125.000	125.299	941947.17	0.1505	P	2.8
5	☐	250.000	237.837	1872060.85	0.2857	A	7.3
6	☐	500.000	491.899	3807664.23	0.5907	A	3.6
7	☐	1000.000	1007.180	7711526.04	1.2095	A	1.5
8	☐			3067.12	0.0005	P	2.0

$$y = 0.0012 * x + 8.2599E-005$$

$$R = 0.9999$$

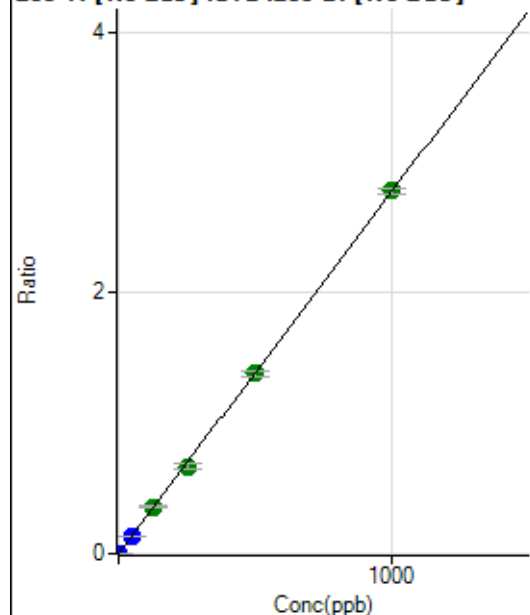
$$DL = 0.02217$$

$$BEC = 0.06879$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1250.10	0.0002	P	7.6
2	☐	1.000	0.947	16830.92	0.0028	P	5.7
3	☐	50.000	48.581	835876.82	0.1350	P	2.3
4	☐	125.000	130.172	2261529.50	0.3614	A	1.2
5	☐	250.000	239.506	4357449.53	0.6648	A	6.7
6	☐	500.000	497.752	8903443.86	1.3813	A	3.0
7	☐	1000.000	1003.172	17748542.06	2.7837	A	1.2
8	☐			6735.27	0.0012	P	4.5

$$y = 0.0028 * x + 2.0537E-004$$

$$R = 0.9999$$

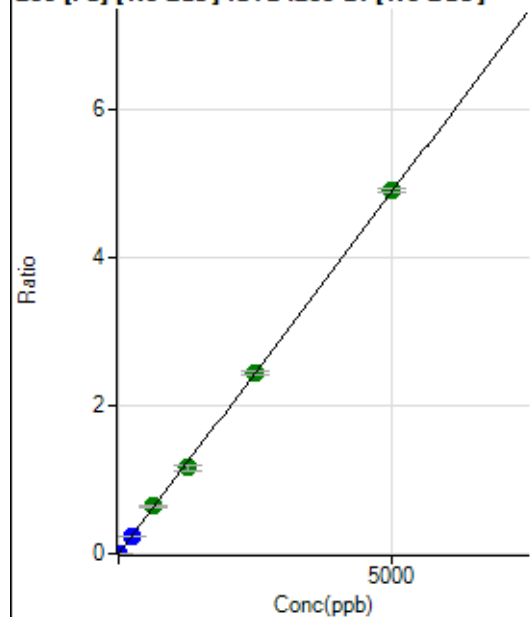
$$DL = 0.01679$$

$$BEC = 0.07402$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	785.23	0.0001	P	6.2
2	☐	1.000	0.937	6192.34	0.0010	P	5.1
3	☐	250.000	234.988	1418894.61	0.2292	P	1.2
4	☐	625.000	655.720	4000443.70	0.6393	A	1.9
5	☐	1250.000	1185.014	7572273.03	1.1552	A	6.7
6	☐	2500.000	2489.049	15641465.40	2.4264	A	2.1
7	☐	5000.000	5018.633	31193502.09	4.8921	A	1.0
8	☐			6577.69	0.0012	P	1.9

$$y = 9.7476E-004 * x + 1.2899E-004$$

$$R = 0.9999$$

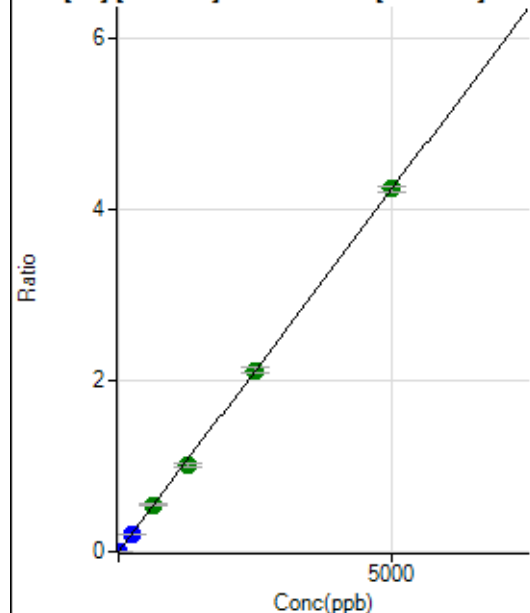
$$DL = 0.02447$$

$$BEC = 0.1323$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	635.21	0.0001	P	3.6
2	☐	1.000	0.997	5643.93	0.0009	P	2.3
3	☐	250.000	240.533	1263081.57	0.2040	P	1.6
4	☐	625.000	648.372	3440466.71	0.5498	A	2.1
5	☐	1250.000	1195.503	6646976.54	1.0136	A	5.1
6	☐	2500.000	2506.294	13696772.41	2.1248	A	2.4
7	☐	5000.000	5008.029	27067981.85	4.2456	A	1.4
8	☐			5525.37	0.0010	P	2.0

$$y = 8.4774E-004 * x + 1.0436E-004$$

$$R = 0.9999$$

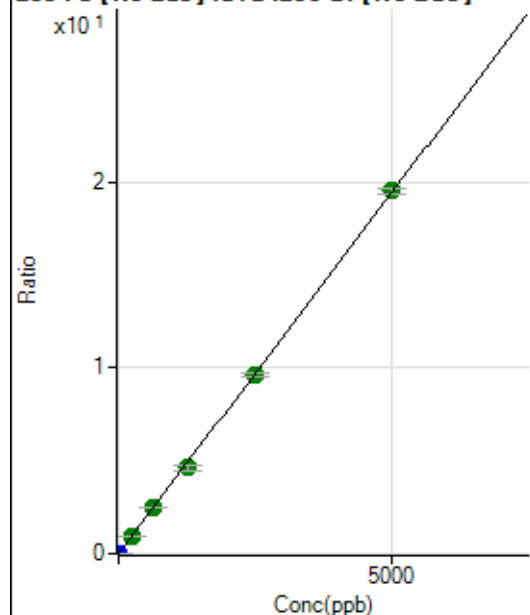
$$DL = 0.01346$$

$$BEC = 0.1231$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3096.51	0.0005	P	3.9
2	☐	1.000	0.964	25289.78	0.0043	P	2.1
3	☐	250.000	242.615	5842855.21	0.9438	A	1.0
4	☐	625.000	640.510	15587108.05	2.4907	A	1.6
5	☐	1250.000	1188.188	30288066.59	4.6200	A	6.1
6	☐	2500.000	2473.446	61995540.85	9.6169	A	2.0
7	☐	5000.000	5027.160	124615065.9	19.5453	A	1.3
8	☐			25675.23	0.0045	P	1.1

$$y = 0.0039 * x + 5.0871E-004$$

$$R = 0.9999$$

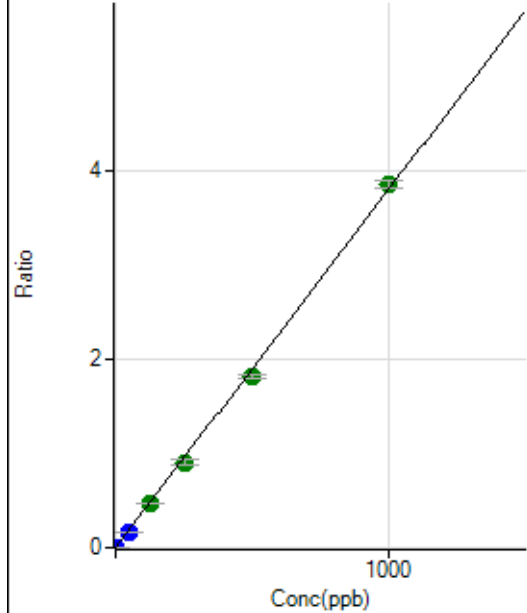
$$DL = 0.0153$$

$$BEC = 0.1308$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	28.6
2	☐	1.000	0.903	20392.04	0.0034	P	2.1
3	☐	50.000	45.045	1057147.87	0.1707	P	1.3
4	☐	125.000	125.167	2969138.26	0.4744	A	1.0
5	☐	250.000	236.747	5882448.35	0.8974	A	6.6
6	☐	500.000	479.990	11728729.78	1.8194	A	2.4
7	☐	1000.000	1013.545	24491749.16	3.8417	A	2.2
8	☐			1169.53	0.0002	P	7.3

$$y = 0.0038 * x + 8.2114E-006$$

$$R = 0.9996$$

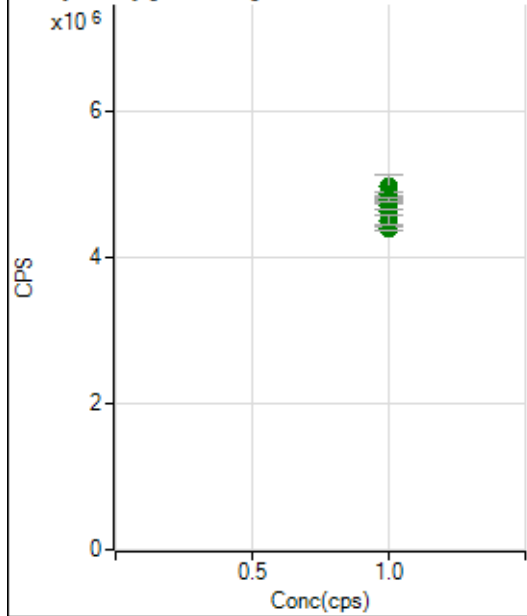
$$DL = 0.00186$$

$$BEC = 0.002166$$

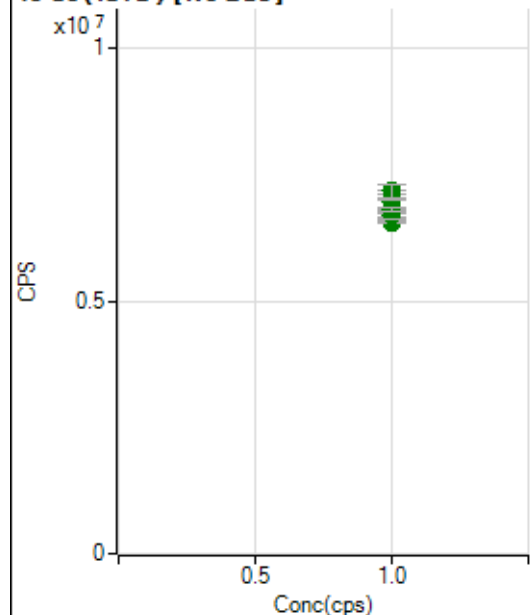
Weight: <None>

Min Conc: 0

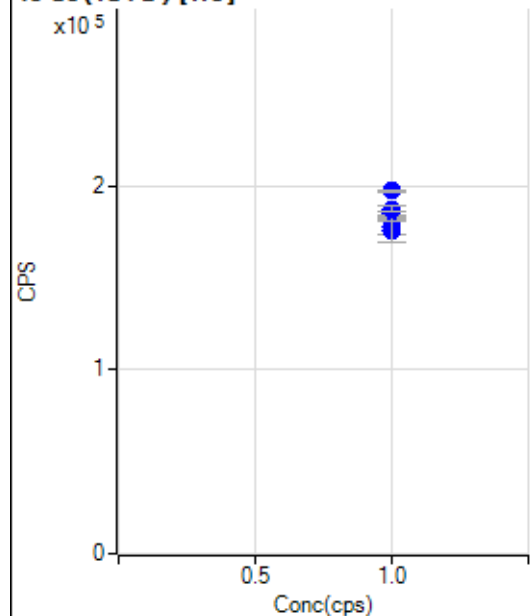
6 Li (ISTD) [No Gas]



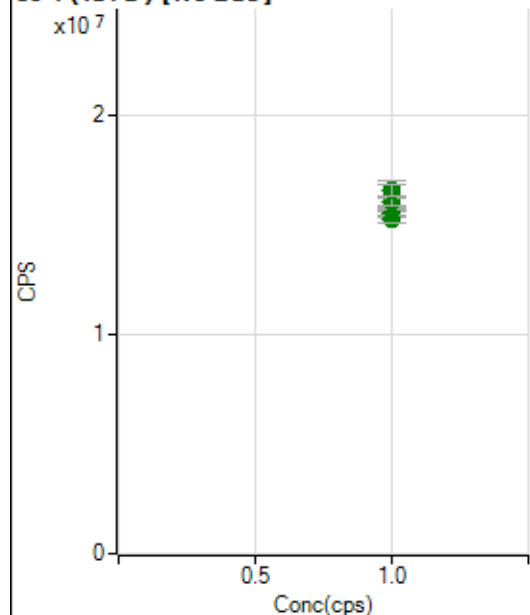
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4393948.68		A	1.1
2	☐	1.000		4514145.48		A	3.2
3	☐	1.000		4633340.74		A	1.7
4	☐	1.000		4711487.32		A	1.4
5	☐	1.000		4974100.90		A	7.1
6	☐	1.000		4881451.75		A	0.8
7	☐	1.000		4800585.61		A	0.9
8	☐	1.000		4515282.68		A	2.8

45 Sc (ISTD) [No Gas]

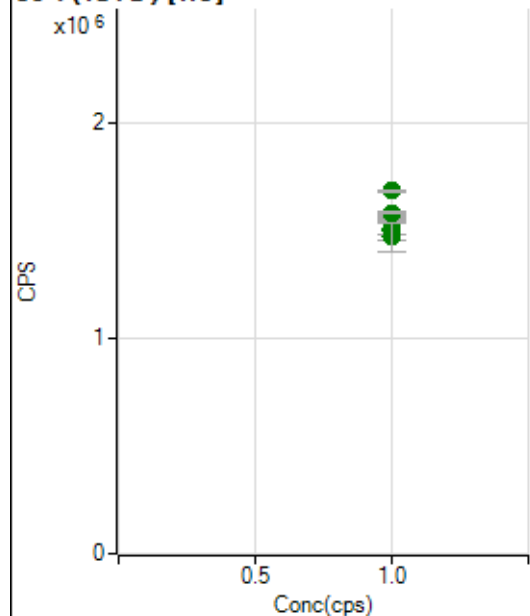
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6625328.44		A	0.9
2	☐	1.000		6548881.50		A	0.4
3	☐	1.000		6763486.22		A	1.1
4	☐	1.000		6697700.80		A	2.3
5	☐	1.000		6964715.80		A	6.3
6	☐	1.000		6806778.58		A	1.2
7	☐	1.000		7047239.96		A	1.8
8	☐	1.000		7174001.49		A	3.6

45 Sc (ISTD) [He]

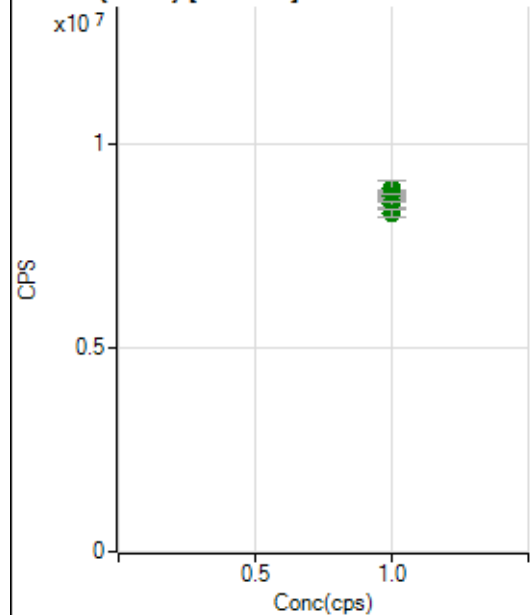
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		182213.65		P	0.4
2	☐	1.000		176209.27		P	8.2
3	☐	1.000		185044.42		P	0.8
4	☐	1.000		182872.78		P	1.3
5	☐	1.000		177450.12		P	3.7
6	☐	1.000		176196.20		P	8.0
7	☐	1.000		187702.27		P	1.5
8	☐	1.000		197325.61		P	0.5

89 Y (ISTD) [No Gas]

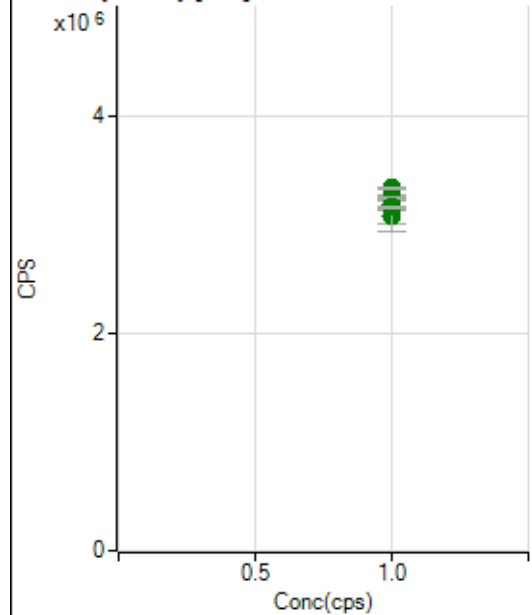
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		15265665.19		A	1.7
2	☐	1.000		15515150.05		A	1.2
3	☐	1.000		15696034.21		A	0.6
4	☐	1.000		15715765.04		A	0.9
5	☐	1.000		16343586.15		A	7.9
6	☐	1.000		15773461.57		A	0.4
7	☐	1.000		16058016.71		A	2.2
8	☐	1.000		16558422.67		A	3.3

89 Y (ISTD) [He]

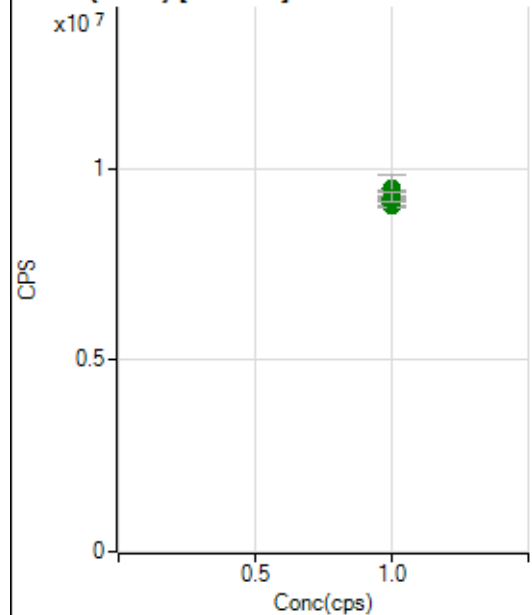
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1550466.38		A	1.5
2	☐	1.000		1501903.40		A	6.7
3	☐	1.000		1573115.51		A	0.5
4	☐	1.000		1549182.42		A	0.9
5	☐	1.000		1508023.19		A	3.9
6	☐	1.000		1469226.56		A	10.0
7	☐	1.000		1580740.57		A	0.8
8	☐	1.000		1682511.07		A	0.8

103 Rh (ISTD) [No Gas]

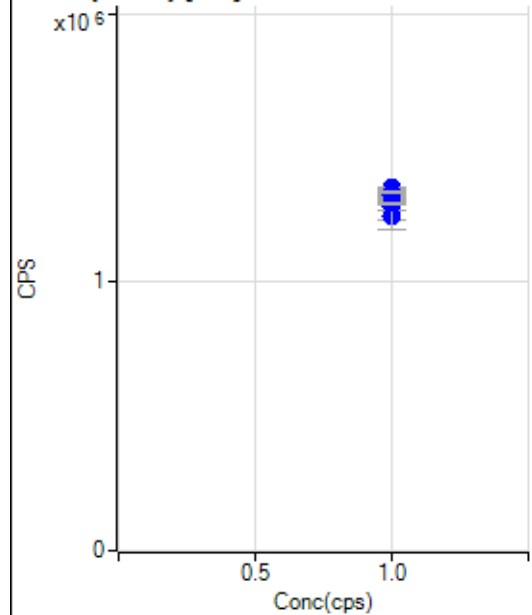
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8723994.99		A	0.4
2	☐	1.000		8782188.56		A	0.4
3	☐	1.000		8849459.14		A	0.6
4	☐	1.000		8556933.87		A	1.8
5	☐	1.000		8917031.97		A	4.9
6	☐	1.000		8734486.91		A	0.9
7	☐	1.000		8540474.24		A	1.9
8	☐	1.000		8329100.62		A	2.5

103 Rh (ISTD) [He]

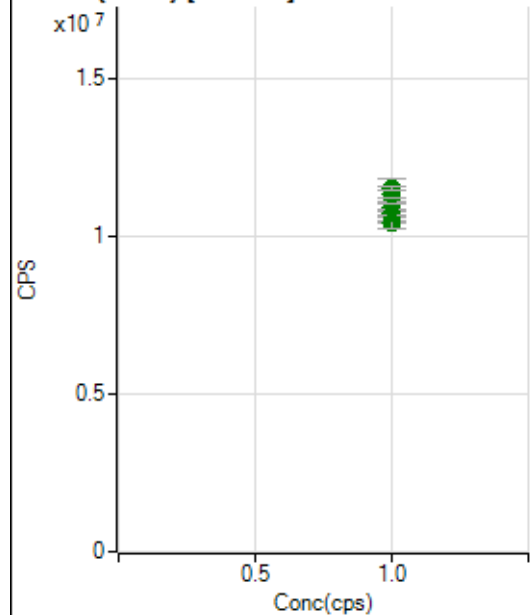
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3255865.96		A	1.1
2	☐	1.000		3129904.09		A	7.6
3	☐	1.000		3340311.17		A	0.6
4	☐	1.000		3237377.17		A	1.1
5	☐	1.000		3188433.50		A	3.4
6	☐	1.000		3089169.26		A	10.2
7	☐	1.000		3247931.38		A	0.6
8	☐	1.000		3162797.70		A	0.8

115 In (ISTD) [No Gas]

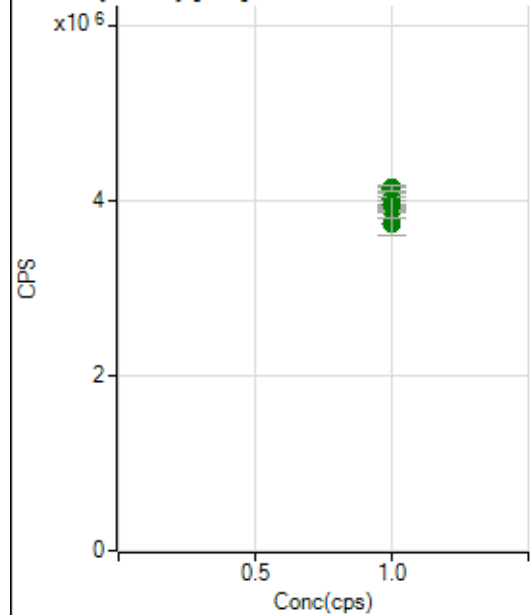
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9000267.33		A	0.7
2	☐	1.000		9067895.53		A	1.6
3	☐	1.000		9417414.33		A	0.1
4	☐	1.000		9298035.85		A	2.9
5	☐	1.000		9459368.62		A	7.3
6	☐	1.000		9170531.00		A	1.1
7	☐	1.000		9201643.73		A	1.8
8	☐	1.000		9240879.85		A	2.8

115 In (ISTD) [He]

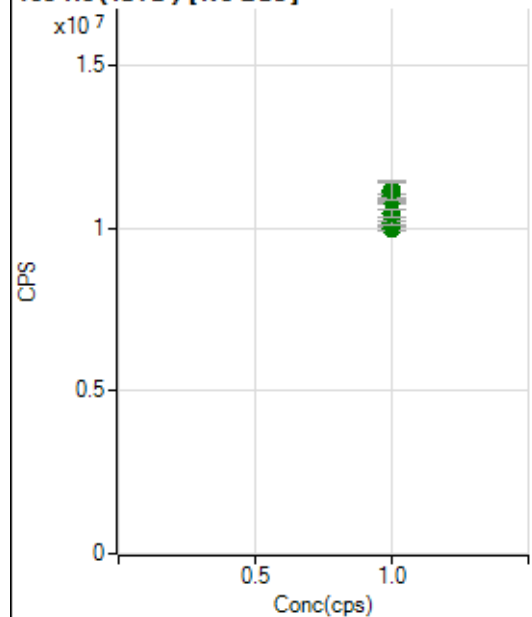
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1311991.35		P	0.8
2	☐	1.000		1279791.17		P	7.6
3	☐	1.000		1352419.98		P	0.2
4	☐	1.000		1325270.22		P	0.8
5	☐	1.000		1288035.43		P	3.1
6	☐	1.000		1249609.62		P	8.3
7	☐	1.000		1294743.36		P	0.4
8	☐	1.000		1336572.74		P	0.5

159 Tb (ISTD) [No Gas]

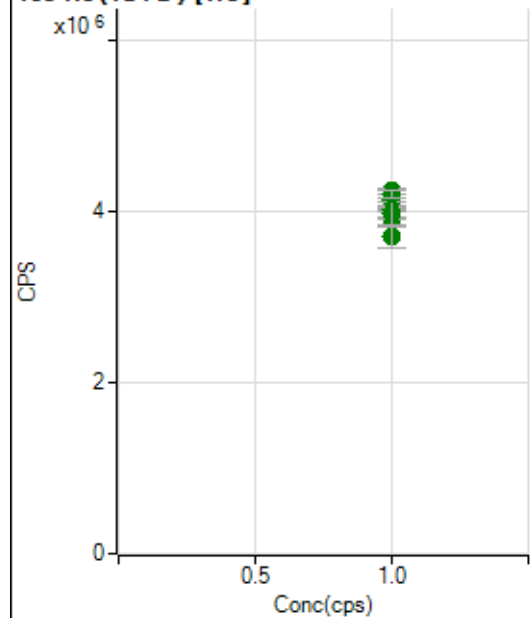
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10473210.19		A	0.7
2	☐	1.000		10463152.69		A	3.7
3	☐	1.000		10753833.87		A	0.7
4	☐	1.000		10946370.67		A	1.7
5	☐	1.000		11476219.55		A	6.0
6	☐	1.000		11076289.69		A	0.6
7	☐	1.000		11347980.66		A	2.1
8	☐	1.000		11524415.52		A	1.2

159 Tb (ISTD) [He]

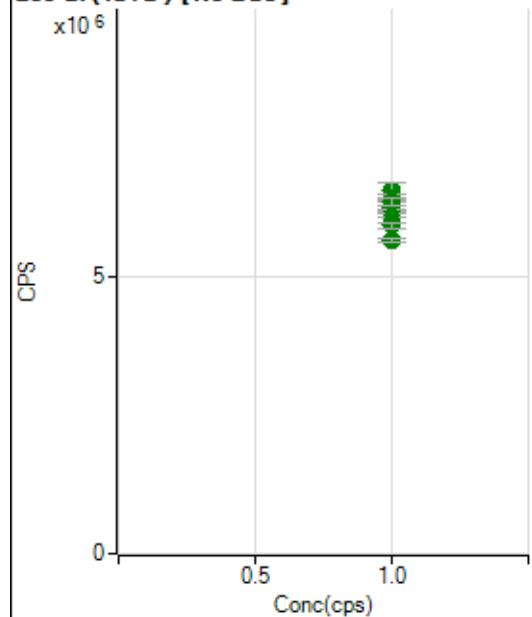
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3888336.92		A	0.3
2	☐	1.000		3736180.40		A	6.9
3	☐	1.000		3938088.52		A	0.7
4	☐	1.000		4018552.54		A	1.0
5	☐	1.000		3946409.91		A	2.7
6	☐	1.000		3943119.04		A	7.4
7	☐	1.000		4116310.15		A	1.3
8	☐	1.000		4139607.44		A	1.4

165 Ho (ISTD) [No Gas]

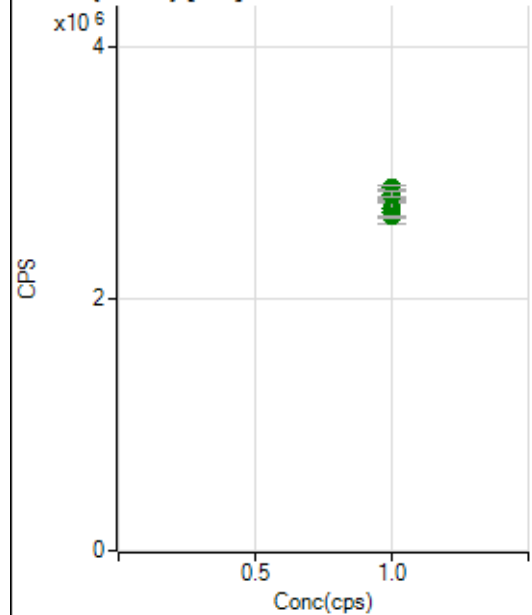
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9960409.34		A	1.3
2	☐	1.000		10121113.51		A	1.2
3	☐	1.000		10164626.70		A	1.1
4	☐	1.000		10450848.32		A	2.4
5	☐	1.000		11096987.14		A	6.2
6	☐	1.000		10882308.84		A	1.2
7	☐	1.000		10987019.26		A	0.8
8	☐	1.000		11134392.61		A	4.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3916510.53		A	0.6
2	☐	1.000		3694925.12		A	7.0
3	☐	1.000		4064936.05		A	1.8
4	☐	1.000		4028171.40		A	1.7
5	☐	1.000		4124771.74		A	3.6
6	☐	1.000		3975182.51		A	6.7
7	☐	1.000		4237473.13		A	1.3
8	☐	1.000		4203516.22		A	1.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6087019.07		A	0.2
2	☐	1.000		5945275.12		A	1.8
3	☐	1.000		6191048.45		A	0.7
4	☐	1.000		6258366.78		A	1.1
5	☐	1.000		6568409.35		A	4.8
6	☐	1.000		6448203.45		A	2.0
7	☐	1.000		6376950.32		A	2.4
8	☐	1.000		5674523.53		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2772853.46		A	1.3
2	☐	1.000		2681681.68		A	7.0
3	☐	1.000		2818833.50		A	2.4
4	☐	1.000		2876397.35		A	0.9
5	☐	1.000		2822751.52		A	2.8
6	☐	1.000		2720322.58		A	9.1
7	☐	1.000		2824326.42		A	1.8
8	☐	1.000		2648993.71		A	0.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8050122MS.b

Acq. Date-Time 2022-05-01 15:25:01

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		12581	125808.83			1.447	5.000
24		79001	790011.79			2.350	5.000
25		10325	103252.22			1.832	5.000
26		12492	124922.58			1.664	5.000
59		18233	182328.17			1.776	5.000
113		8933	89334.75			1.458	5.000
115		26289	262885.78			1.825	5.000
206		10177	101769.09			2.071	5.000
207		8496	84957.39			1.769	5.000
208		21082	210816.25			2.231	5.000
220		0	4.90			13.304	

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

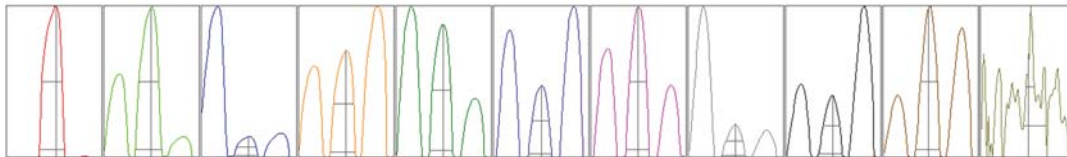
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12267	12700	12639	12709	12590
24	76017	79760	80421	78412	80395
25	10018	10531	10405	10341	10331
26	12124	12618	12564	12608	12547
59	17688	18459	18426	18408	18182
113	8728	9076	8986	8902	8975
115	26049	26982	26594	25933	25885
206	9818	10291	10319	10157	10300
207	8237	8538	8567	8514	8622
208	20290	21060	21509	21243	21305

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	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21217.84	9.10	8.90 - 9.10	
24	132994.21	24.00	23.90 - 24.10	
25	17731.99	25.00	24.90 - 25.10	
26	20750.13	26.00	25.90 - 26.10	
59	33120.74	59.00	58.90 - 59.10	
113	17514.16	113.05	112.90 - 113.10	
115	51352.35	115.00	114.90 - 115.10	
206	20233.24	206.00	205.90 - 206.10	
207	16937.94	207.00	206.90 - 207.10	
208	41376.47	207.95	207.90 - 208.10	
220	0.75	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.785	0.900	
24	0.63	0.827	0.900	
25	0.62	0.755	0.900	
26	0.64	0.787	0.900	
59	0.58	0.738	0.900	
113	0.53	0.729	0.900	
115	0.54	0.728	0.900	
206	0.52	0.738	0.900	
207	0.52	0.747	0.900	
208	0.53	0.768	0.900	
220	0.27	0.723		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.2 V	Deflect	15.6 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 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	160 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.1 mm
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EM

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

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3402	34023.30			3.748	
89		13277	132767.43			3.318	
205		21473	214734.22			3.520	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3175	3448	3473	3446	3470
89	12503	13327	13515	13516	13523
205	20161	21896	21933	21891	21487

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.2 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2320 V	Pulse HV	1695 V
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