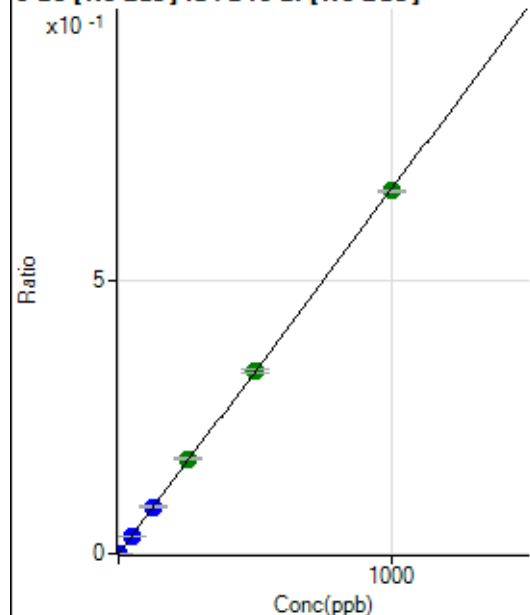


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012125MS.b\
 Analysis File: P8012125MS-2.batch.bin
 DA Date-Time: 2025-01-31 13:24:46
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2025-01-21 13:20:04
2	006CALS.d	S02	2025-01-21 13:30:11
3	007CALB.d	S03	2025-01-21 13:33:31
4	008CALS.d	S04	2025-01-21 13:36:39
5	009CALS.d	S05	2025-01-21 13:39:36
6	010CALS.d	S06	2025-01-21 13:42:30
7	011CALS.d	S07	2025-01-21 13:45:16
8	012CALS.d	S08	2025-01-21 13:48:03

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	373.29	0.0000	P	8.9
2	☐	1.000	1.033	6063.41	0.0007	P	2.3
3	☐	50.000	48.051	275453.13	0.0322	P	6.8
4	☐	125.000	127.552	684849.85	0.0853	P	3.4
5	☐	250.000	260.831	1372306.04	0.1744	A	3.0
6	☐	500.000	503.550	2576231.80	0.3367	A	2.1
7	☐	1000.000	995.296	4906067.01	0.6654	A	0.3
8	☐			1392.81	0.0002	P	14.0

$$y = 6.6855E-004 * x + 4.6067E-005$$

$$R = 0.9999$$

$$DL = 0.01831$$

$$BEC = 0.06891$$

Weight: <None>

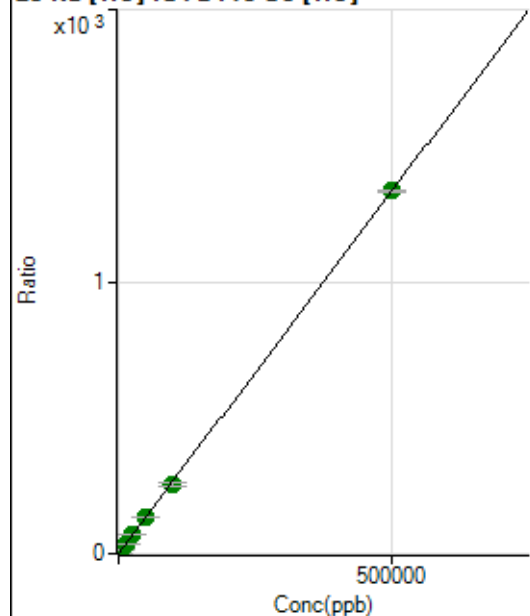
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2781098.53		A	1.7
2	☐			3131562.24		A	0.5
3	☐			3349679.74		A	0.3
4	☐			3443418.70		A	0.7
5	☐			3459863.21		A	1.7
6	☐			3504301.72		A	2.9
7	☐			3832762.30		A	3.1
8	☐			4841259.65		A	11.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18186.91		P	2.1
2	☐			20427.61		P	0.6
3	☐			21745.05		P	0.9
4	☐			22511.78		P	2.1
5	☐			23189.48		P	1.1
6	☐			24330.17		P	0.7
7	☐			27632.63		P	0.5
8	☐			44822.50		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18676.49	0.1135	P	2.6
2	☐	500.000	517.846	245842.74	1.4931	P	0.3
3	☐	5000.000	5220.165	2340727.61	14.0201	A	0.4
4	☐	12500.000	12807.212	5484663.43	34.2322	A	0.8
5	☐	25000.000	25754.067	10625581.58	68.7228	A	2.5
6	☐	50000.000	50936.052	20882867.61	135.8080	A	0.9
7	☐	100000.00	95025.142	40782815.51	253.2621	A	6.0
8	☐	500000.00	500853.76	182926532.8	1,334.396	A	0.8

$$y = 0.0027 * x + 0.1135$$

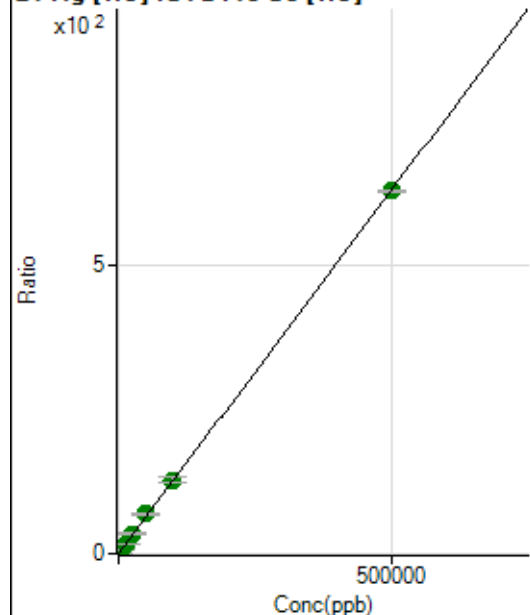
$$R = 0.9999$$

$$DL = 3.335$$

$$BEC = 42.61$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	537.79	0.0033	P	3.4
2	☐	500.000	571.998	118880.52	0.7220	P	0.3
3	☐	5000.000	5604.813	1176366.66	7.0458	A	0.7
4	☐	12500.000	13978.934	2814886.66	17.5681	A	0.6
5	☐	25000.000	27679.894	5377259.40	34.7837	A	3.3
6	☐	50000.000	54590.989	10547553.73	68.5981	A	1.7
7	☐	100000.00	101587.53	20555707.61	127.6504	A	6.0
8	☐	500000.00	499046.30	85966676.50	627.0668	A	0.7

$$y = 0.0013 * x + 0.0033$$

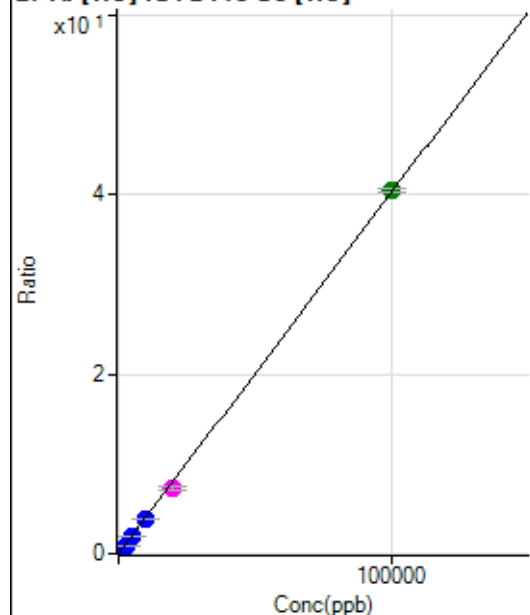
$$R = 1.0000$$

$$DL = 0.2619$$

$$BEC = 2.599$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0004	P	10.5
2	☐	20.000	19.497	1352.30	0.0082	P	4.1
3	☐	1000.000	959.910	64523.31	0.3865	P	1.0
4	☐	2500.000	2379.661	153458.92	0.9576	P	1.2
5	☐	5000.000	4761.011	296158.88	1.9154	P	2.5
6	☐	10000.000	9462.111	585315.00	3.8064	P	0.6
7	☐	20000.000	18039.181	1169174.25	7.2564	M	5.7
8	☐	100000.00	100461.31	5539912.21	40.4096	A	1.0

$$y = 4.0224E-004 * x + 3.7083E-004$$

$$R = 0.9998$$

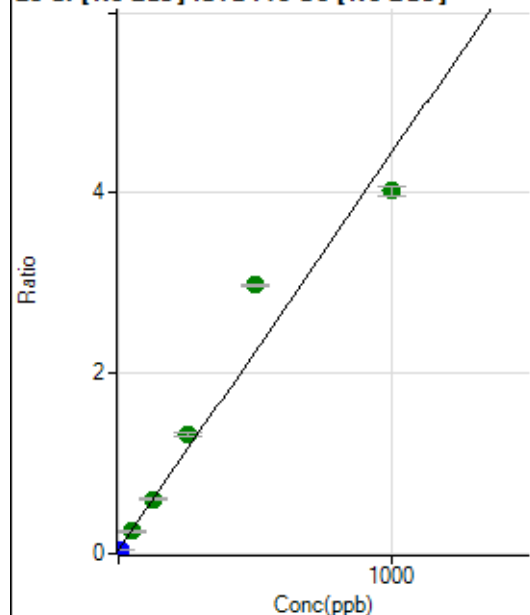
$$DL = 0.2893$$

$$BEC = 0.9219$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	398591.20	0.0423	P	0.2
2	☐	10.000	1.735	487247.19	0.0499	P	2.3
3	☐	50.000	47.094	2552423.87	0.2494	A	8.8
4	☐	125.000	127.905	5813608.45	0.6049	A	5.3
5	☐	250.000	292.523	12479284.40	1.3289	A	2.8
6	☐	500.000	668.277	27839775.97	2.9815	A	0.8
7	☐	1000.000	905.096	37391805.28	4.0231	A	2.4
8	☐			505265.44	0.0638	P	2.6

$$y = 0.0044 * x + 0.0423$$

$$R = 0.9762$$

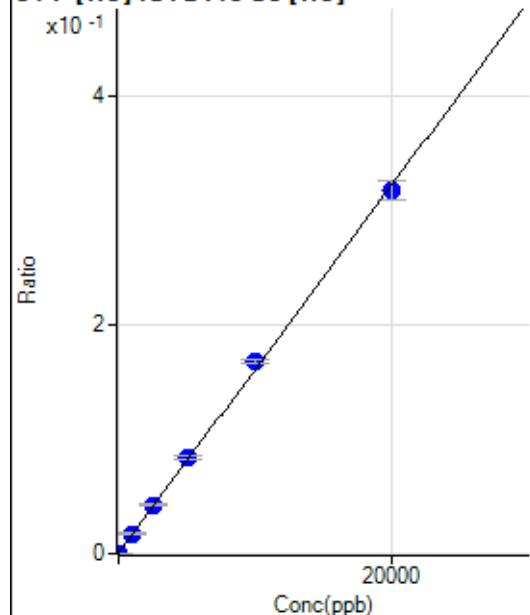
$$DL = 0.05488$$

$$BEC = 9.62$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-15.300	47.78	0.0003	P	19.6
2	☐	0.000	15.300	128.89	0.0008	P	5.5
3	☐	1000.000	1059.169	2931.43	0.0176	P	2.2
4	☐	2500.000	2633.655	6869.47	0.0429	P	3.1
5	☐	5000.000	5233.742	13085.99	0.0846	P	3.4
6	☐	10000.000	10437.383	25875.34	0.1683	P	1.5
7	☐	20000.000	19703.208	51097.41	0.3172	P	5.3
8	☐			75.56	0.0006	P	22.3

$$y = 1.6071E-005 * x + 5.3692E-004$$

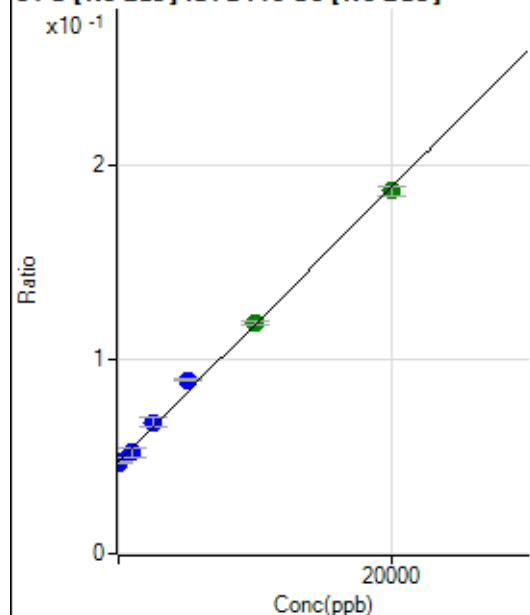
$$R = 0.9996$$

$$DL = 9.32$$

$$BEC = 33.41$$

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	77.055	452596.64	0.0480	P	0.4
2	☐	0.000	-77.055	458130.92	0.0470	P	1.3
3	☐	1000.000	645.707	532767.68	0.0521	P	9.1
4	☐	2500.000	2879.069	652400.29	0.0679	P	6.3
5	☐	5000.000	5920.395	840061.37	0.0895	P	1.4
6	☐	10000.000	10089.891	1111303.07	0.1190	A	1.8
7	☐	20000.000	19695.286	1738863.78	0.1871	A	2.9
8	☐			341569.72	0.0431	P	2.3

$$y = 7.0873E-006 * x + 0.0475$$

R = 0.9982

DL = 171.8

BEC = 6702

Weight: <None>

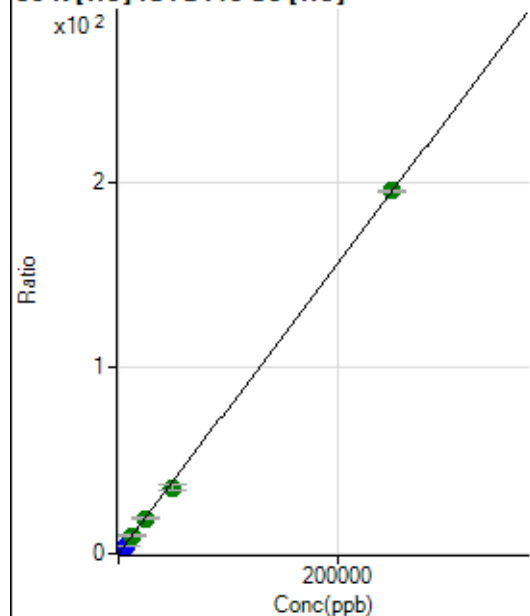
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			59378.77		P	0.5
2	☐			62165.93		P	0.4
3	☐			65850.99		P	1.0
4	☐			69807.13		P	0.8
5	☐			71279.68		P	2.4
6	☐			79068.88		P	4.4
7	☐			94917.76		P	3.9
8	☐			57483.52		P	2.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			238.89		P	9.3
2	☐			244.45		P	15.7
3	☐			221.12		P	21.9
4	☐			272.23		P	16.2
5	☐			238.89		P	3.5
6	☐			305.56		P	4.4
7	☐			404.46		P	4.8
8	☐			241.12		P	20.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6504.87	0.0395	P	1.2
2	☐	500.000	490.079	69314.05	0.4210	P	1.0
3	☐	2500.000	2354.333	312535.98	1.8720	P	0.5
4	☐	6250.000	5911.999	743666.12	4.6411	P	0.5
5	☐	12500.000	12504.224	1510799.13	9.7721	A	2.9
6	☐	25000.000	24548.174	2944095.48	19.1463	A	1.0
7	☐	50000.000	45833.739	5750581.58	35.7138	A	6.3
8	☐	250000.00	250888.15	26775853.21	195.3158	A	0.5

$$y = 7.7834E-004 * x + 0.0395$$

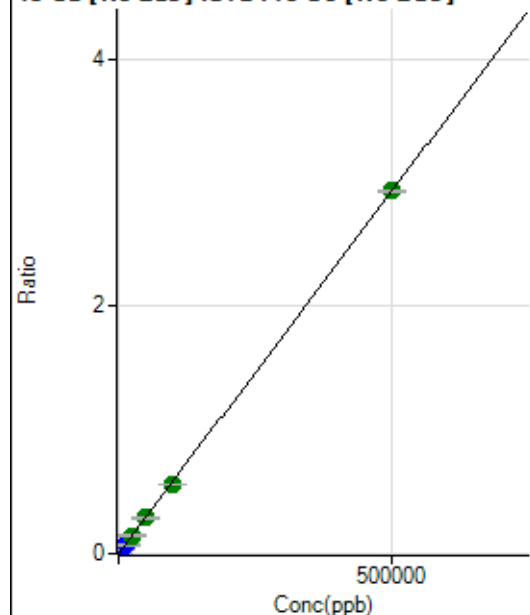
$$R = 0.9998$$

$$DL = 1.846$$

$$BEC = 50.77$$

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	0.0000	P	11.9
2	☐	500.000	495.907	28778.78	0.0029	P	2.8
3	☐	5000.000	4535.921	272262.78	0.0266	P	8.2
4	☐	12500.000	12143.561	683639.70	0.0711	P	5.6
5	☐	25000.000	25199.713	1385716.14	0.1476	A	1.6
6	☐	50000.000	49486.147	2705816.92	0.2897	A	2.4
7	☐	100000.00	95410.840	5191218.05	0.5586	A	1.3
8	☐	500000.00	500972.78	23224622.99	2.9327	A	0.7

$$y = 5.8540\text{E-}006 * x + 4.6719\text{E-}005$$

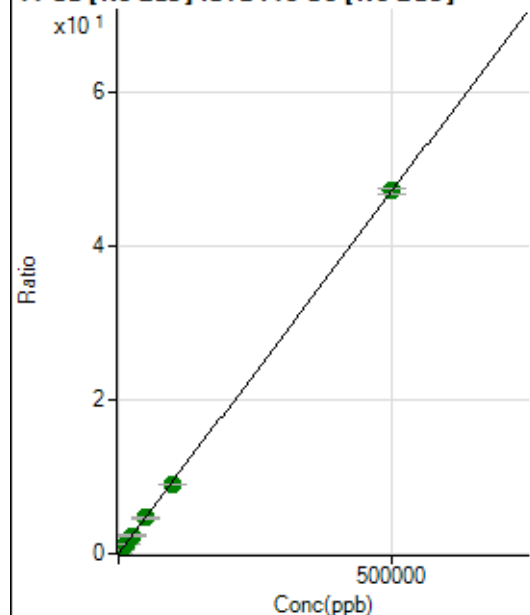
$$R = 1.0000$$

$$DL = 2.86$$

$$BEC = 7.981$$

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	8515.93	0.0009	P	0.9
2	☐	500.000	498.370	467584.48	0.0479	P	2.0
3	☐	5000.000	4735.690	4580089.93	0.4477	A	9.2
4	☐	12500.000	12502.904	11346407.33	1.1805	A	5.4
5	☐	25000.000	24955.726	22119602.72	2.3554	A	2.7
6	☐	50000.000	49157.355	43320409.63	4.6388	A	2.3
7	☐	100000.00	95879.158	84080052.08	9.0470	A	1.3
8	☐	500000.00	500913.21	374217296.6	47.2614	A	1.5

$$y = 9.4349\text{E-}005 * x + 9.0399\text{E-}004$$

$$R = 1.0000$$

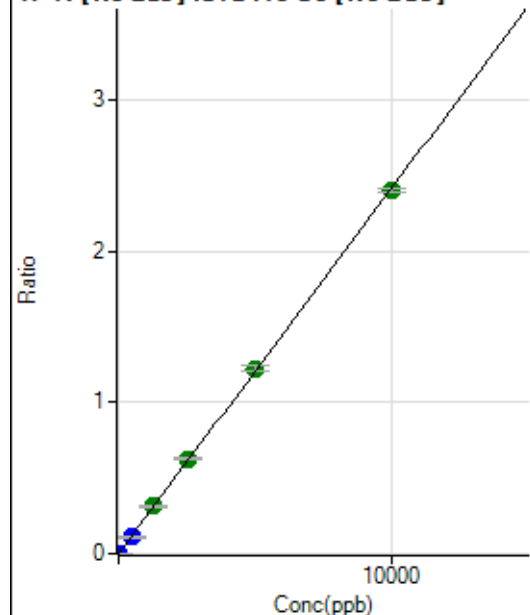
$$DL = 0.2717$$

$$BEC = 9.581$$

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	143.33	0.0000	P	25.8
2	☐	5.000	5.158	12307.56	0.0013	P	2.1
3	☐	500.000	466.229	1152872.13	0.1127	P	8.5
4	☐	1250.000	1303.962	3027988.25	0.3150	A	5.4
5	☐	2500.000	2596.827	5891825.81	0.6274	A	2.7
6	☐	5000.000	5072.872	11446774.13	1.2256	A	3.3
7	☐	10000.000	9934.301	22305824.67	2.4001	A	1.1
8	☐			7589.86	0.0010	P	4.3

$$y = 2.4160\text{E-}004 * x + 1.5212\text{E-}005$$

$$R = 0.9999$$

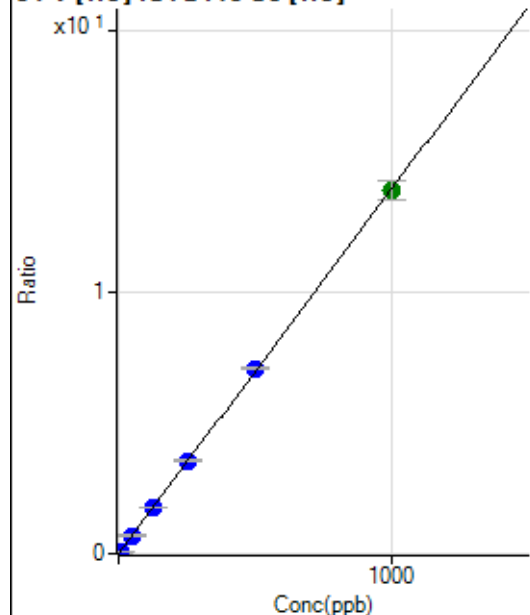
$$DL = 0.04882$$

$$BEC = 0.06296$$

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	13.33	0.0001	P	76.9
2	☐	5.000	5.269	12098.53	0.0735	P	1.0
3	☐	50.000	49.905	116076.51	0.6953	P	0.9
4	☐	125.000	126.890	283274.46	1.7676	P	1.0
5	☐	250.000	254.438	548076.06	3.5444	P	1.9
6	☐	500.000	506.959	1085908.98	7.0620	P	0.9
7	☐	1000.000	995.178	2233055.38	13.8628	A	5.4
8	☐			318.90	0.0023	P	12.0

$$y = 0.0139 * x + 8.1632\text{E-}005$$

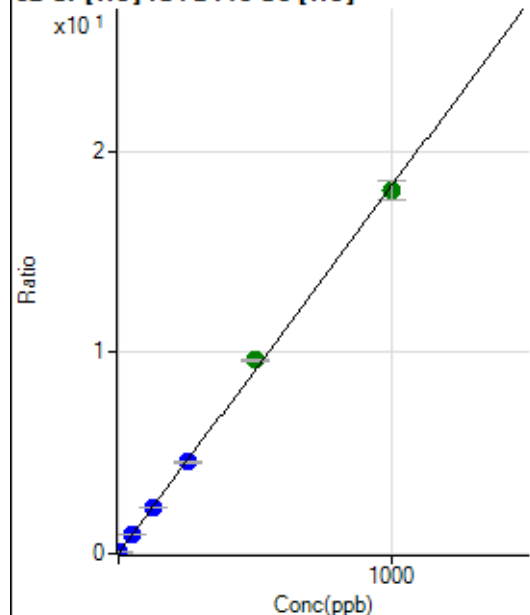
$$R = 1.0000$$

$$DL = 0.01352$$

$$BEC = 0.00586$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1824.58	0.0111	P	5.5
2	☐	2.000	2.125	8210.21	0.0499	P	0.9
3	☐	50.000	49.601	152938.48	0.9160	P	0.1
4	☐	125.000	124.862	366841.43	2.2892	P	0.9
5	☐	250.000	248.628	703098.45	4.5472	P	2.3
6	☐	500.000	526.342	1478302.27	9.6141	A	1.6
7	☐	1000.000	987.209	2902815.44	18.0225	A	5.5
8	☐			6580.12	0.0480	P	18.1

$$y = 0.0182 * x + 0.0111$$

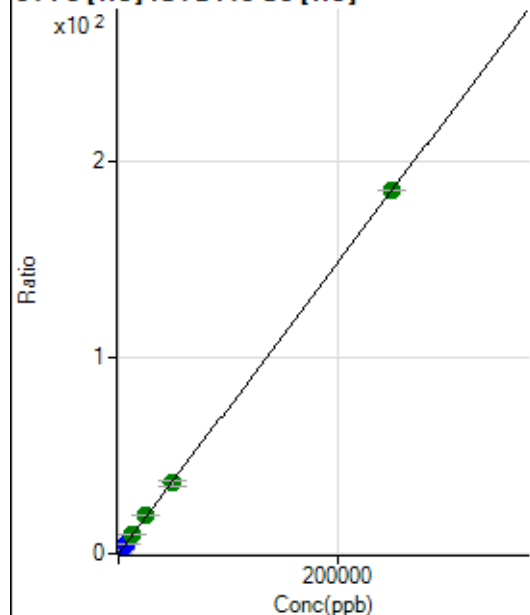
$$R = 0.9995$$

$$DL = 0.1009$$

$$BEC = 0.608$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	548.90	0.0033	P	5.4
2	☐	50.000	57.600	7553.17	0.0459	P	0.4
3	☐	2500.000	2557.404	315848.07	1.8918	P	0.5
4	☐	6250.000	6382.082	755669.28	4.7161	P	0.4
5	☐	12500.000	13273.143	1516040.24	9.8048	A	2.6
6	☐	25000.000	26466.057	3005459.68	19.5470	A	1.8
7	☐	50000.000	48530.986	5770728.87	35.8406	A	6.4
8	☐	250000.00	250104.66	25319241.57	184.6909	A	0.2

$$y = 7.3844E-004 * x + 0.0033$$

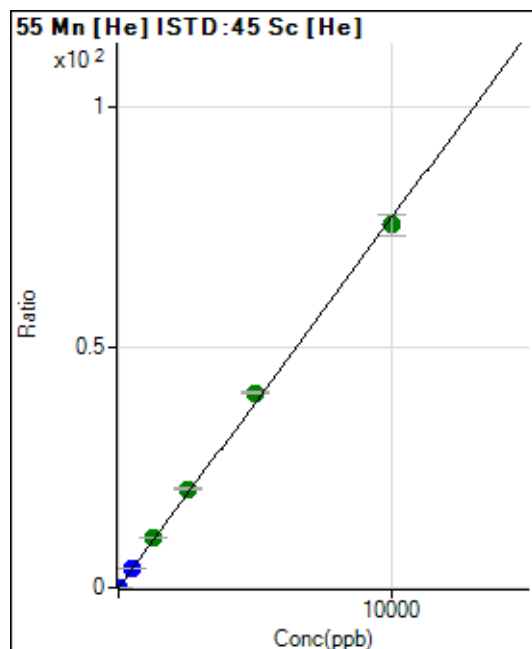
$$R = 1.0000$$

$$DL = 0.7362$$

$$BEC = 4.521$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	188.89	0.0012	P	23.7
2	☐	1.000	1.096	1580.11	0.0096	P	4.5
3	☐	500.000	505.368	650297.54	3.8950	P	0.1
4	☐	1250.000	1337.036	1651038.60	10.3031	A	0.8
5	☐	2500.000	2671.615	3182765.33	20.5861	A	2.8
6	☐	5000.000	5265.753	6239161.57	40.5741	A	0.6
7	☐	10000.000	9813.072	12176614.40	75.6115	A	5.9
8	☐			4065.12	0.0297	P	4.4

$$y = 0.0077 * x + 0.0012$$

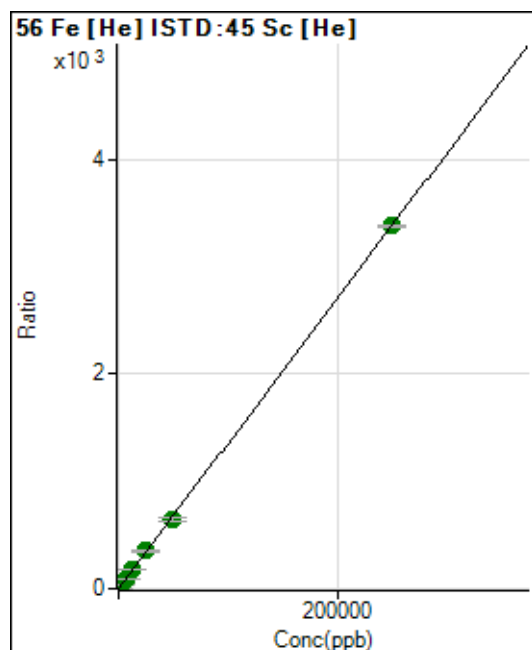
$$R = 0.9993$$

$$DL = 0.1065$$

$$BEC = 0.1496$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8069.03	0.0490	P	2.4
2	☐	50.000	54.837	129929.49	0.7891	P	0.7
3	☐	2500.000	2627.368	5928038.52	35.5073	A	0.9
4	☐	6250.000	6589.984	14259544.51	88.9858	A	0.9
5	☐	12500.000	13027.227	27191727.10	175.8613	A	2.3
6	☐	25000.000	25943.110	53841976.42	350.1708	A	1.6
7	☐	50000.000	48024.822	104403318.4	648.1801	A	5.4
8	☐	250000.00	250264.58	463024321.9	3,377.557	A	0.2

$$y = 0.0135 * x + 0.0490$$

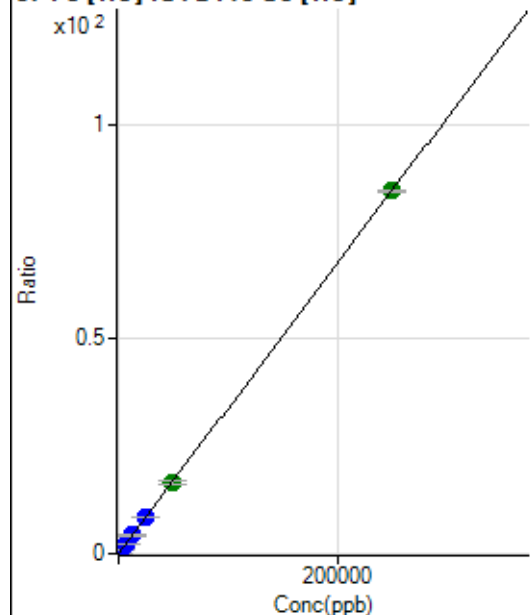
$$R = 0.9999$$

$$DL = 0.2575$$

$$BEC = 3.634$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.34	0.0011	P	14.4
2	☐	50.000	53.622	3167.05	0.0192	P	1.8
3	☐	2500.000	2548.696	143978.40	0.8624	P	0.9
4	☐	6250.000	6369.774	345139.49	2.1537	P	1.1
5	☐	12500.000	12649.048	661147.62	4.2756	P	1.9
6	☐	25000.000	25055.375	1302092.19	8.4681	P	1.1
7	☐	50000.000	49015.777	2668408.76	16.5650	A	5.2
8	☐	250000.00	250180.37	11589914.96	84.5447	A	0.6

$$y = 3.3793\text{E-}004 * x + 0.0011$$

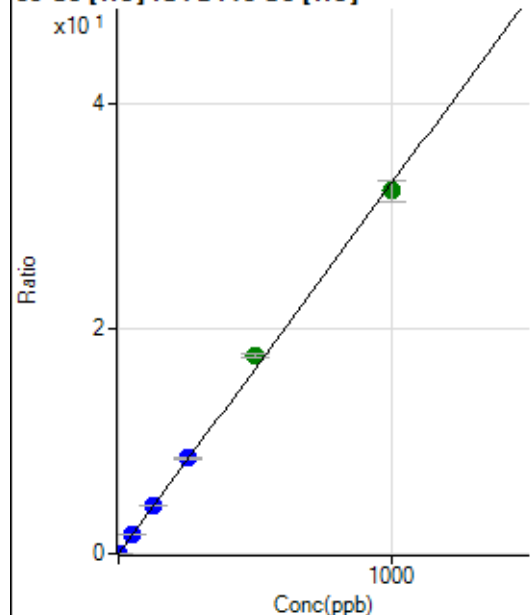
R = 1.0000

DL = 1.429

BEC = 3.296

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	176.67	0.0011	P	26.1
2	☐	1.000	1.130	6310.35	0.0383	P	1.7
3	☐	50.000	51.929	286018.79	1.7132	P	1.1
4	☐	125.000	129.958	686728.14	4.2859	P	0.4
5	☐	250.000	258.378	1317492.50	8.5199	P	1.8
6	☐	500.000	534.784	2711445.31	17.6332	A	1.1
7	☐	1000.000	979.797	5202623.78	32.3055	A	5.8
8	☐			9505.46	0.0693	P	1.1

$$y = 0.0330 * x + 0.0011$$

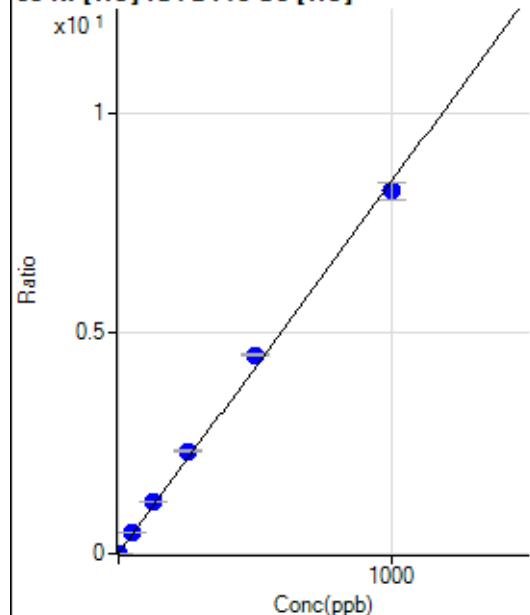
R = 0.9990

DL = 0.02557

BEC = 0.0327

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1528.99	0.0093	P	7.0
2	☐	1.000	1.122	3088.14	0.0188	P	3.3
3	☐	50.000	55.258	79305.91	0.4750	P	1.5
4	☐	125.000	139.951	190493.40	1.1889	P	0.5
5	☐	250.000	274.859	359678.56	2.3259	P	1.6
6	☐	500.000	533.403	692720.31	4.5050	P	1.0
7	☐	1000.000	974.952	1325263.78	8.2265	P	5.0
8	☐			5793.45	0.0423	P	1.7

$$y = 0.0084 * x + 0.0093$$

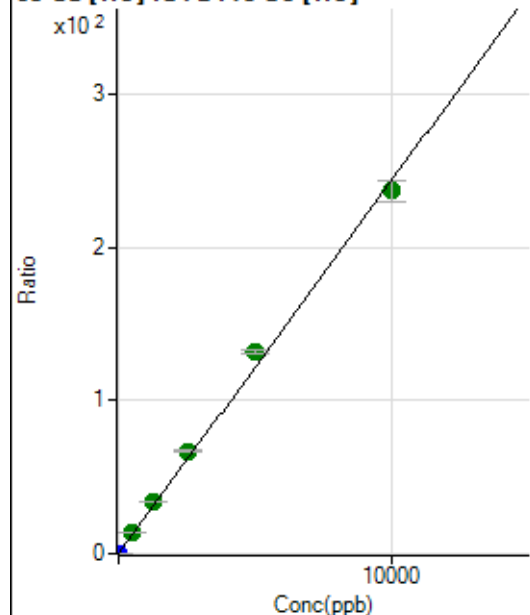
$$R = 0.9988$$

$$DL = 0.2305$$

$$BEC = 1.104$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2852.54	0.0173	P	2.5
2	☐	2.000	2.311	12118.57	0.0736	P	0.7
3	☐	500.000	555.681	2261786.08	13.5472	A	0.1
4	☐	1250.000	1382.362	5395335.10	33.6754	A	0.1
5	☐	2500.000	2744.547	10334509.29	66.8423	A	2.7
6	☐	5000.000	5388.510	20175262.89	131.2181	A	2.0
7	☐	10000.000	9725.279	38143519.71	236.8109	A	5.5
8	☐			8949.56	0.0653	P	2.4

$$y = 0.0243 * x + 0.0173$$

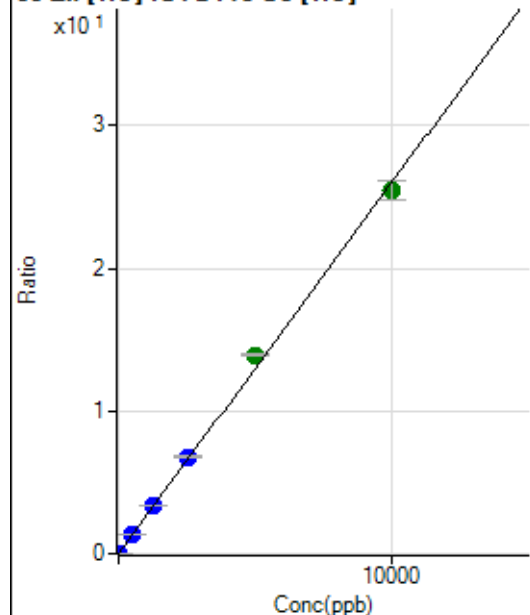
$$R = 0.9985$$

$$DL = 0.0544$$

$$BEC = 0.7121$$

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	247.78	0.0015	P	9.9
2	☐	5.000	5.798	2726.95	0.0166	P	3.3
3	☐	500.000	521.844	226512.84	1.3567	P	0.2
4	☐	1250.000	1305.407	543408.98	3.3916	P	0.1
5	☐	2500.000	2594.653	1042148.99	6.7398	P	2.1
6	☐	5000.000	5364.334	2142278.11	13.9326	A	1.5
7	☐	10000.000	9786.151	4093843.52	25.4161	A	5.3
8	☐			5176.55	0.0378	P	4.1

$$y = 0.0026 * x + 0.0015$$

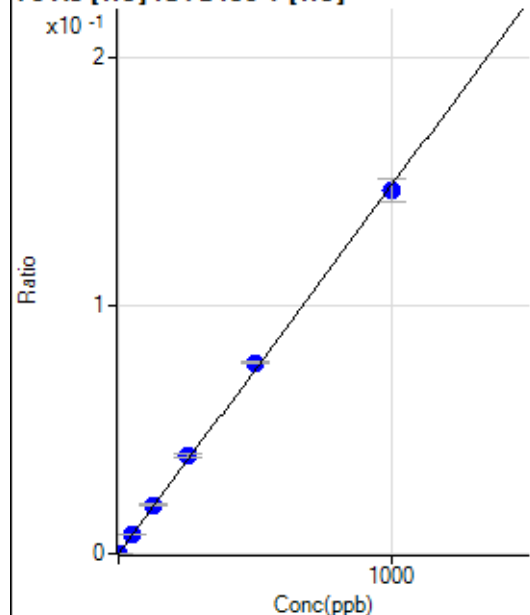
$$R = 0.9989$$

$$DL = 0.1729$$

$$BEC = 0.5799$$

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	6.67	0.0000	P	50.5
2	☐	1.000	1.267	313.34	0.0002	P	13.3
3	☐	50.000	51.966	12803.69	0.0077	P	1.7
4	☐	125.000	132.360	30991.89	0.0197	P	1.9
5	☐	250.000	265.069	60349.51	0.0394	P	3.1
6	☐	500.000	519.455	118184.65	0.0772	P	0.5
7	☐	1000.000	985.486	233494.31	0.1465	P	6.4
8	☐			108.89	0.0001	P	25.5

$$y = 1.4868E-004 * x + 4.1011E-006$$

$$R = 0.9996$$

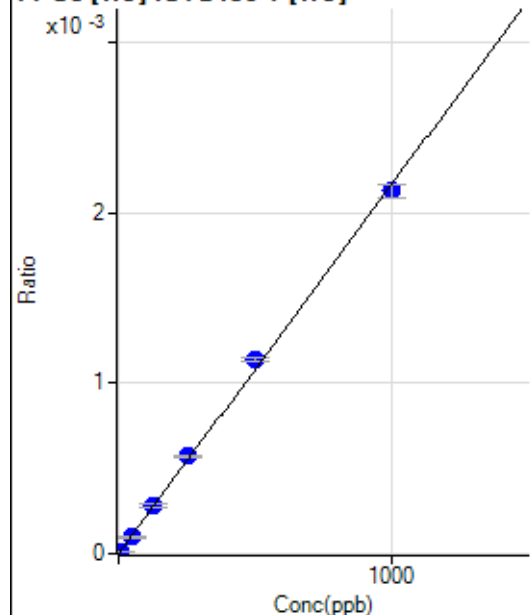
$$DL = 0.04179$$

$$BEC = 0.02758$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.425	15.56	0.0000	P	33.5
3	☐	50.000	45.597	163.34	0.0001	P	9.0
4	☐	125.000	131.285	446.68	0.0003	P	8.6
5	☐	250.000	263.545	873.37	0.0006	P	1.9
6	☐	500.000	525.442	1739.01	0.0011	P	2.4
7	☐	1000.000	983.330	3399.33	0.0021	P	4.0
8	☐			2.22	0.0000	P	173.2

$$y = 2.1629\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

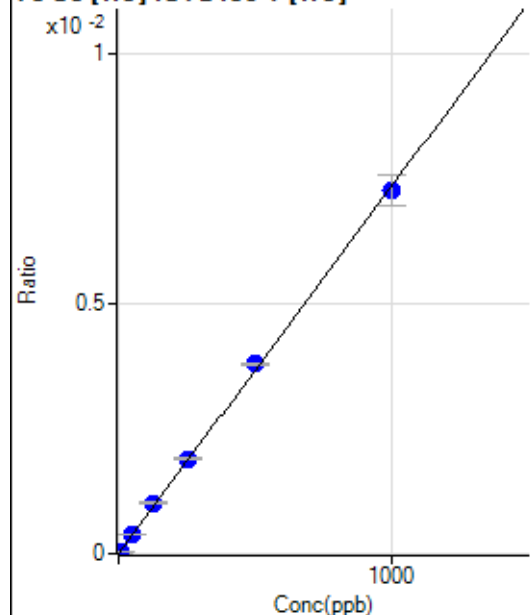
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.44	0.0000	P	115.4
2	☐	5.000	5.094	65.56	0.0000	P	17.0
3	☐	50.000	52.937	648.91	0.0004	P	2.8
4	☐	125.000	136.902	1589.00	0.0010	P	2.6
5	☐	250.000	258.036	2908.11	0.0019	P	2.6
6	☐	500.000	516.329	5810.14	0.0038	P	1.4
7	☐	1000.000	988.191	11569.29	0.0073	P	8.3
8	☐			10.00	0.0000	P	32.6

$$y = 7.3485\text{E-}006 * x + 2.7703\text{E-}006$$

$$R = 0.9997$$

$$DL = 1.305$$

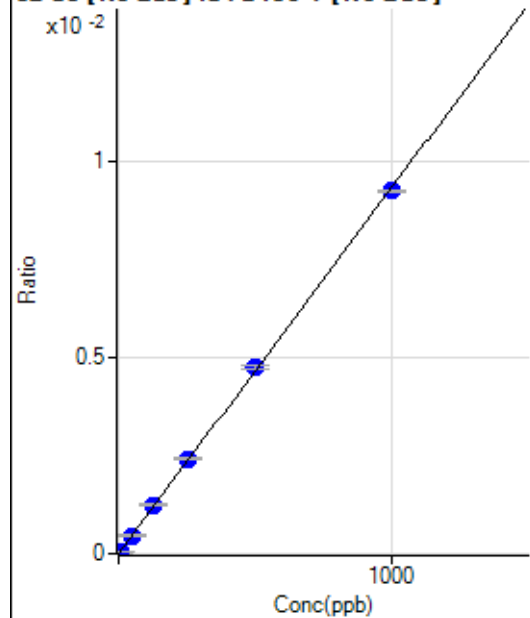
$$BEC = 0.377$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5992.45		P	3.8
2	☐			5926.86		P	1.2
3	☐			5874.63		P	2.0
4	☐			6150.29		P	2.9
5	☐			5897.97		P	2.8
6	☐			5937.99		P	3.2
7	☐			6373.72		P	0.9
8	☐			6377.06		P	3.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-40.00	0.0000	P	-59.9
2	☐	5.000	5.430	1170.08	0.0000	P	4.5
3	☐	50.000	49.655	11631.73	0.0005	P	7.1
4	☐	125.000	132.835	29231.99	0.0012	P	4.6
5	☐	250.000	259.812	56393.54	0.0024	P	0.9
6	☐	500.000	509.446	109345.07	0.0048	P	1.9
7	☐	1000.000	991.860	211821.24	0.0093	P	0.7
8	☐			-26.67	0.0000	P	-251.

$$y = 9.3359\text{E-}006 * x - 1.7073\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.3284$$

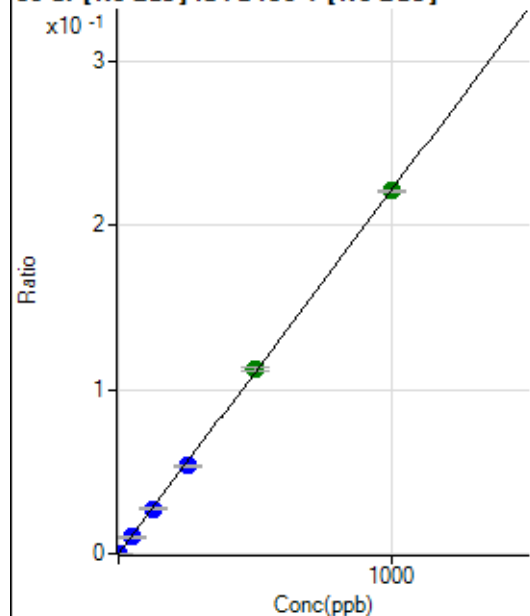
$$BEC = -0.1829$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			195.56		P	9.4
2	☐			188.89		P	9.7
3	☐			167.78		P	20.9
4	☐			178.89		P	13.2
5	☐			177.78		P	6.6
6	☐			218.89		P	1.8
7	☐			220.00		P	14.5
8	☐			353.34		P	21.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	310.01	0.0000	P	2.9
2	☐	1.000	0.993	5568.93	0.0002	P	5.0
3	☐	50.000	45.666	254952.60	0.0101	P	8.3
4	☐	125.000	122.760	642335.05	0.0272	P	3.9
5	☐	250.000	241.801	1246664.24	0.0536	P	2.7
6	☐	500.000	508.606	2591942.88	0.1127	A	2.4
7	☐	1000.000	998.244	5059881.56	0.2212	A	0.5
8	☐			12557.97	0.0006	P	1.6

$$y = 2.2155E-004 * x + 1.3239E-005$$

$$R = 0.9999$$

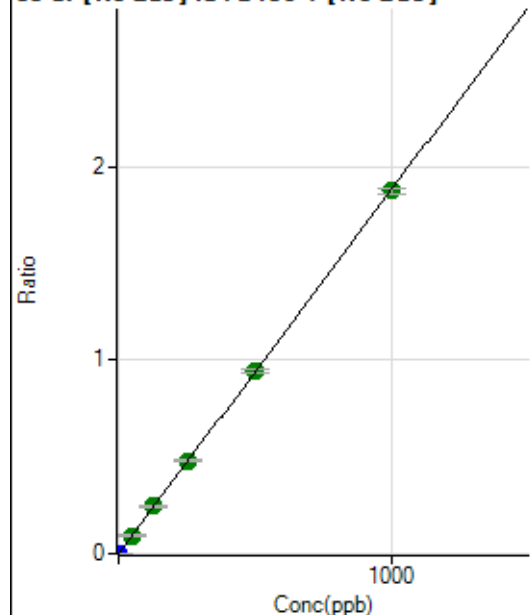
$$DL = 0.005256$$

$$BEC = 0.05976$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	407.79	0.0000	P	3.0
2	☐	1.000	0.964	43739.36	0.0018	P	3.4
3	☐	50.000	49.186	2330925.33	0.0926	A	8.3
4	☐	125.000	129.781	5766568.80	0.2444	A	5.0
5	☐	250.000	255.589	11195869.49	0.4812	A	2.2
6	☐	500.000	502.908	21775486.62	0.9468	A	1.8
7	☐	1000.000	996.592	42932629.08	1.8763	A	1.8
8	☐			103607.60	0.0052	P	0.7

$$y = 0.0019 * x + 1.7415E-005$$

$$R = 1.0000$$

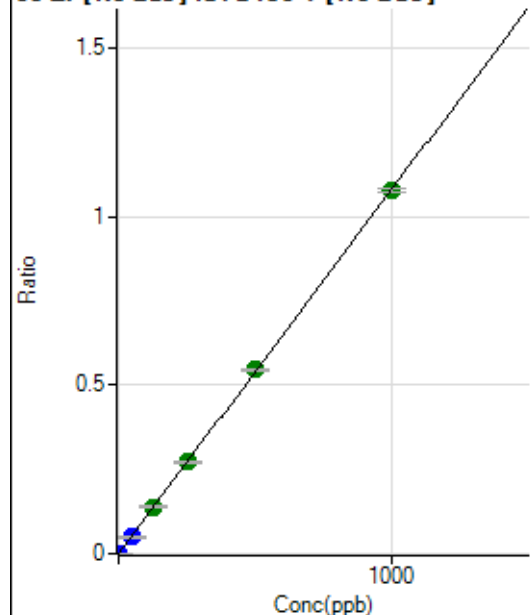
$$DL = 0.0008344$$

$$BEC = 0.00925$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	727.81	0.0000	P	5.0
2	☐	1.000	0.995	26427.28	0.0011	P	2.0
3	☐	50.000	45.342	1234502.72	0.0491	P	8.5
4	☐	125.000	128.176	3271831.97	0.1386	A	4.5
5	☐	250.000	252.462	6351258.31	0.2730	A	2.1
6	☐	500.000	505.116	12560530.93	0.5462	A	1.2
7	☐	1000.000	996.662	24657292.97	1.0777	A	0.9
8	☐			12991.71	0.0007	P	2.7

$$y = 0.0011 * x + 3.1083E-005$$

$$R = 1.0000$$

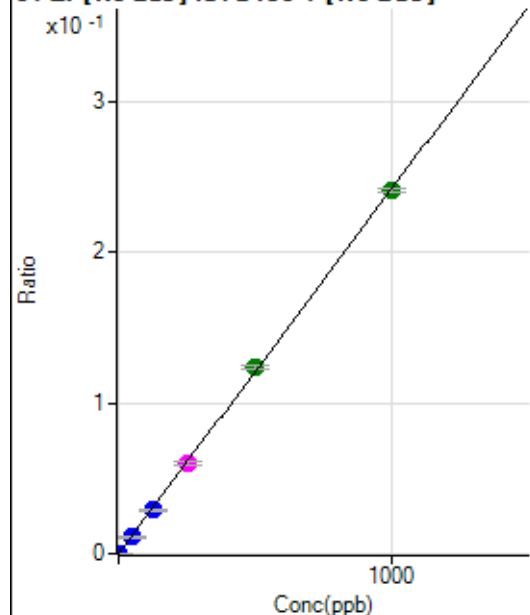
$$DL = 0.004329$$

$$BEC = 0.02875$$

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	153.34	0.0000	P	11.3
2	☐	1.000	0.980	5810.16	0.0002	P	4.2
3	☐	50.000	44.863	273058.90	0.0108	P	7.9
4	☐	125.000	120.968	690113.63	0.0292	P	4.4
5	☐	250.000	248.548	1397650.90	0.0601	M	5.2
6	☐	500.000	511.452	2842381.76	0.1236	A	1.6
7	☐	1000.000	995.398	5503360.16	0.2405	A	1.2
8	☐			2964.79	0.0001	P	3.7

$$y = 2.4164\text{E-}004 * x + 6.5479\text{E-}006$$

$$R = 0.9999$$

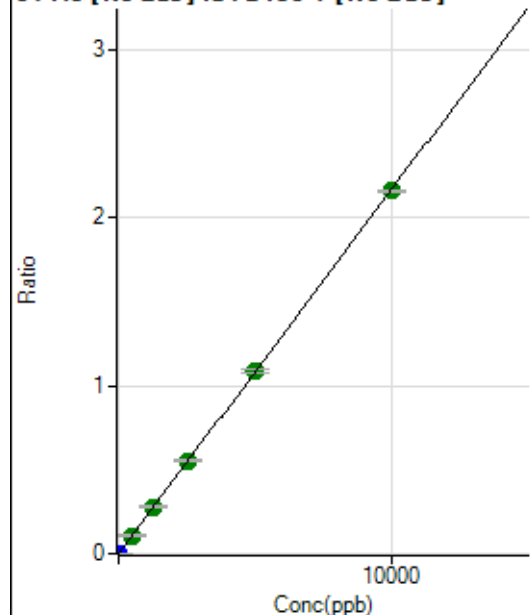
$$DL = 0.009183$$

$$BEC = 0.0271$$

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	522.24	0.0000	P	3.8
2	☐	5.000	5.962	31378.68	0.0013	P	4.5
3	☐	500.000	483.496	2637155.07	0.1048	A	8.4
4	☐	1250.000	1291.344	6604291.36	0.2799	A	5.2
5	☐	2500.000	2544.846	12830412.17	0.5515	A	2.4
6	☐	5000.000	5039.805	25118300.18	1.0921	A	2.1
7	☐	10000.000	9964.543	49403889.82	2.1593	A	0.8
8	☐			11944.17	0.0006	P	11.8

$$y = 2.1670\text{E-}004 * x + 2.2306\text{E-}005$$

$$R = 1.0000$$

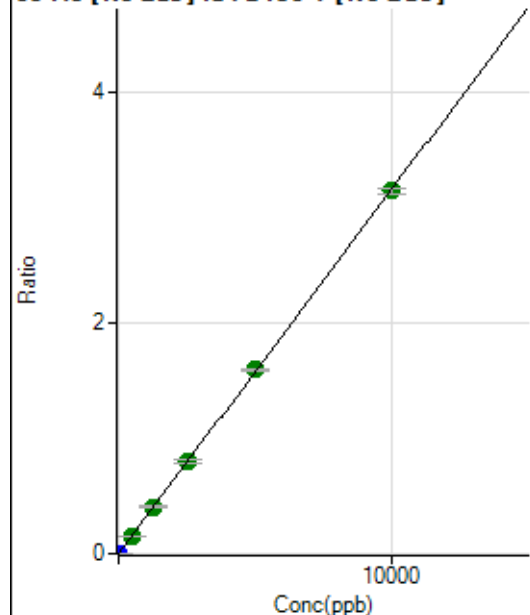
$$DL = 0.01176$$

$$BEC = 0.1029$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	532.24	0.0000	P	3.9
2	☐	5.000	4.908	37472.60	0.0016	P	2.4
3	☐	500.000	479.146	3798346.96	0.1510	A	9.0
4	☐	1250.000	1287.477	9573417.36	0.4057	A	5.0
5	☐	2500.000	2534.244	18576371.81	0.7985	A	2.5
6	☐	5000.000	5048.313	36575983.07	1.5906	A	0.9
7	☐	10000.000	9963.641	71831217.82	3.1392	A	1.6
8	☐			10757.68	0.0005	P	15.4

$$y = 3.1506\text{E-}004 * x + 2.2733\text{E-}005$$

$$R = 1.0000$$

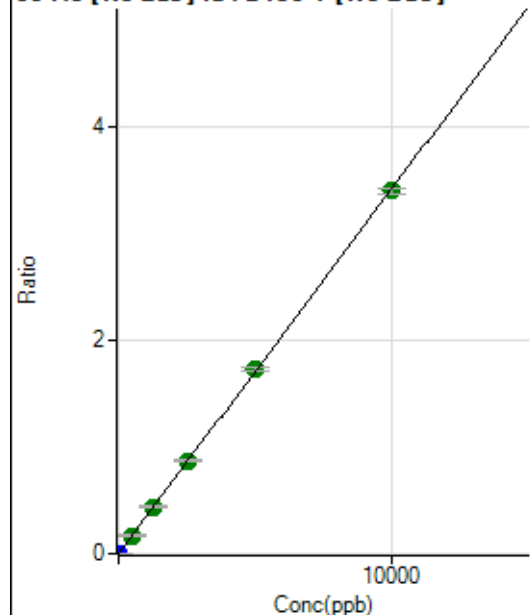
$$DL = 0.008374$$

$$BEC = 0.07215$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	635.58	0.0000	P	5.8
2	☐	5.000	5.032	41648.97	0.0017	P	2.5
3	☐	500.000	481.704	4135838.58	0.1644	A	8.6
4	☐	1250.000	1283.341	10336723.39	0.4379	A	3.8
5	☐	2500.000	2558.071	20304742.48	0.8728	A	2.5
6	☐	5000.000	5058.223	39685073.30	1.7257	A	1.3
7	☐	10000.000	9953.118	77695502.17	3.3957	A	1.4
8	☐			14753.58	0.0007	P	11.0

$$y = 3.4116\text{E-}004 * x + 2.7143\text{E-}005$$

$$R = 0.9999$$

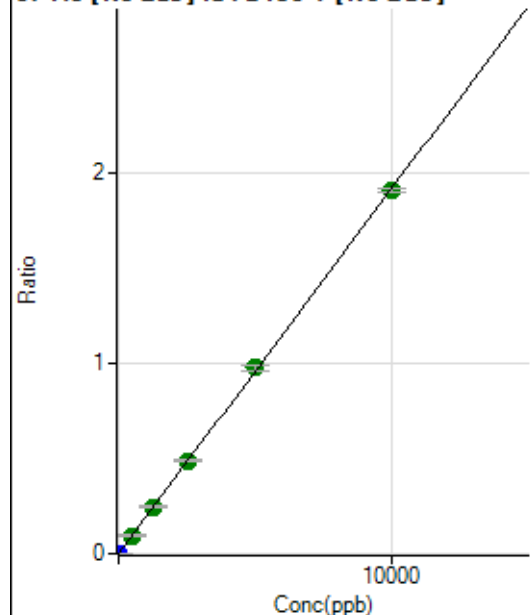
$$DL = 0.01378$$

$$BEC = 0.07956$$

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	332.23	0.0000	P	2.3
2	☐	5.000	4.929	22945.71	0.0010	P	3.5
3	☐	500.000	482.776	2333612.05	0.0927	A	8.7
4	☐	1250.000	1279.316	5801103.59	0.2457	A	3.8
5	☐	2500.000	2543.288	11366011.78	0.4885	A	2.7
6	☐	5000.000	5089.562	22484445.64	0.9776	A	2.4
7	☐	10000.000	9941.594	43691045.74	1.9095	A	1.1
8	☐			5567.86	0.0003	P	17.4

$$y = 1.9207\text{E-}004 * x + 1.4190\text{E-}005$$

$$R = 0.9999$$

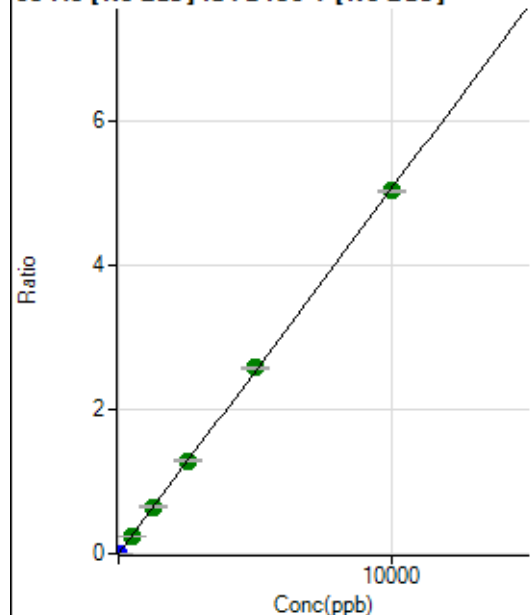
$$DL = 0.005192$$

$$BEC = 0.07388$$

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	778.92	0.0000	P	6.8
2	☐	5.000	4.936	60460.93	0.0025	P	3.3
3	☐	500.000	475.139	6054186.30	0.2406	A	8.3
4	☐	1250.000	1288.584	15401005.74	0.6524	A	3.7
5	☐	2500.000	2541.138	29929033.16	1.2864	A	2.3
6	☐	5000.000	5090.644	59269079.67	2.5771	A	1.8
7	☐	10000.000	9940.814	115135346.0	5.0324	A	0.7
8	☐			13585.88	0.0007	P	19.7

$$y = 5.0624\text{E-}004 * x + 3.3266\text{E-}005$$

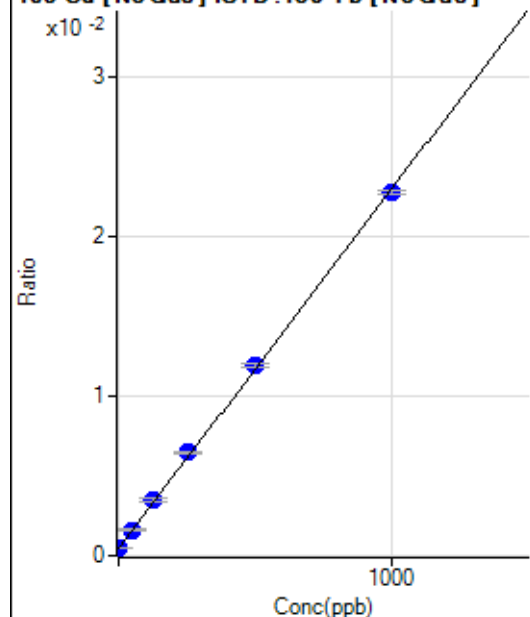
$$R = 0.9999$$

$$DL = 0.01337$$

$$BEC = 0.06571$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7426.50	0.0004	P	1.0
2	☐	1.000	0.793	7885.64	0.0005	P	3.2
3	☐	50.000	51.281	29072.83	0.0016	P	6.7
4	☐	125.000	135.884	60484.00	0.0035	P	5.2
5	☐	250.000	267.035	110185.32	0.0065	P	1.3
6	☐	500.000	509.597	203139.33	0.0119	P	2.0
7	☐	1000.000	989.518	385834.37	0.0228	P	1.1
8	☐			6002.47	0.0004	P	1.6

$$y = 2.2556\text{E-}005 * x + 4.3701\text{E-}004$$

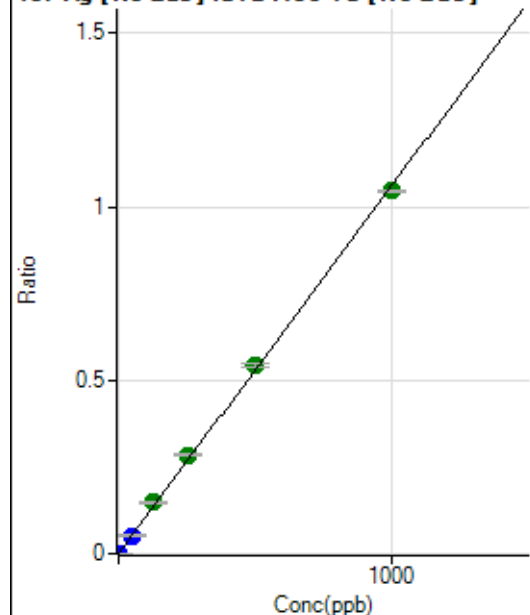
$$R = 0.9997$$

$$DL = 0.603$$

$$BEC = 19.37$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	164.45	0.0000	P	4.4
2	☐	1.000	0.992	18386.74	0.0011	P	1.5
3	☐	50.000	48.779	941884.13	0.0517	P	8.8
4	☐	125.000	138.673	2537182.03	0.1470	A	6.3
5	☐	250.000	267.471	4834660.72	0.2834	A	2.4
6	☐	500.000	514.324	9279013.96	0.5450	A	2.0
7	☐	1000.000	986.822	17729304.87	1.0457	A	0.8
8	☐			2368.01	0.0002	P	15.2

$$y = 0.0011 * x + 9.6778\text{E-}006$$

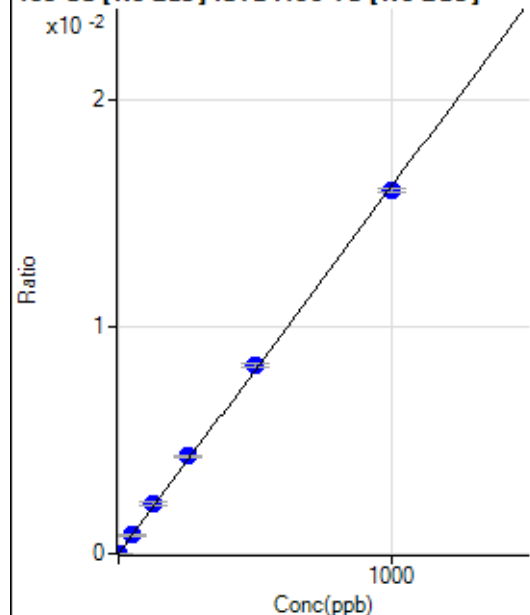
$$R = 0.9996$$

$$DL = 0.001197$$

$$BEC = 0.009133$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.55	0.0000	P	14.8
2	☐	1.000	1.018	311.12	0.0000	P	12.4
3	☐	50.000	51.414	15152.87	0.0008	P	9.7
4	☐	125.000	137.946	38494.74	0.0022	P	6.9
5	☐	250.000	265.596	73213.16	0.0043	P	2.3
6	☐	500.000	512.576	141001.72	0.0083	P	1.6
7	☐	1000.000	988.124	270662.70	0.0160	P	1.2
8	☐			166.67	0.0000	P	22.9

$$y = 1.6155\text{E-}005 * x + 1.5034\text{E-}006$$

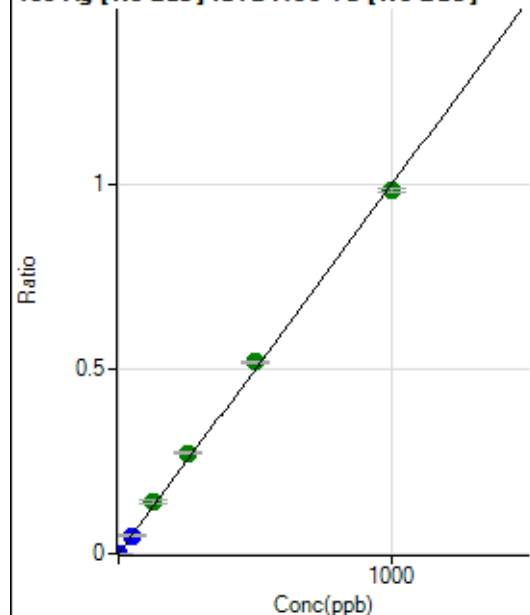
$$R = 0.9997$$

$$DL = 0.04132$$

$$BEC = 0.09306$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	67.78	0.0000	P	24.9
2	☐	1.000	1.022	17778.23	0.0010	P	1.7
3	☐	50.000	49.461	901178.05	0.0495	P	8.9
4	☐	125.000	140.009	2418429.53	0.1400	A	5.0
5	☐	250.000	271.589	4632622.29	0.2716	A	1.9
6	☐	500.000	518.679	8830295.29	0.5187	A	1.2
7	☐	1000.000	983.414	16674810.72	0.9834	A	1.0
8	☐			2257.99	0.0002	P	12.7

$$y = 0.0010 * x + 3.9859\text{E-}006$$

$$R = 0.9994$$

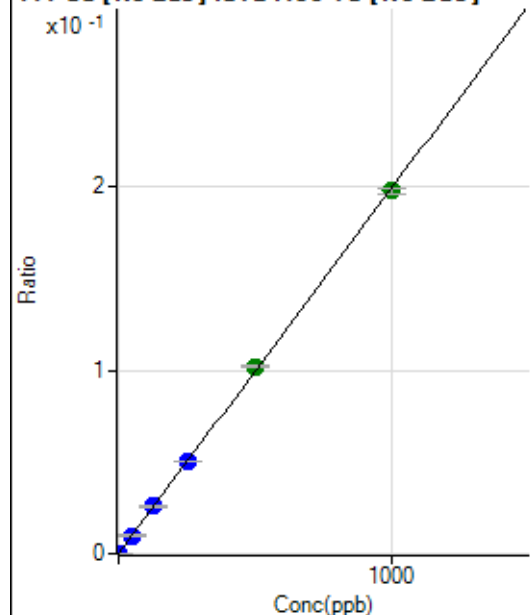
$$DL = 0.002974$$

$$BEC = 0.003986$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1508.53	0.0001	P	1.2
2	☐	1.000	1.081	5271.06	0.0003	P	1.6
3	☐	50.000	48.988	179408.88	0.0098	P	9.1
4	☐	125.000	129.346	446606.55	0.0259	P	5.3
5	☐	250.000	252.155	858379.83	0.0503	P	1.0
6	☐	500.000	511.926	1737967.87	0.1021	A	1.6
7	☐	1000.000	993.006	3356285.33	0.1979	A	1.6
8	☐			1937.19	0.0001	P	2.6

$$y = 1.9924\text{E-}004 * x + 8.8768\text{E-}005$$

$$R = 0.9999$$

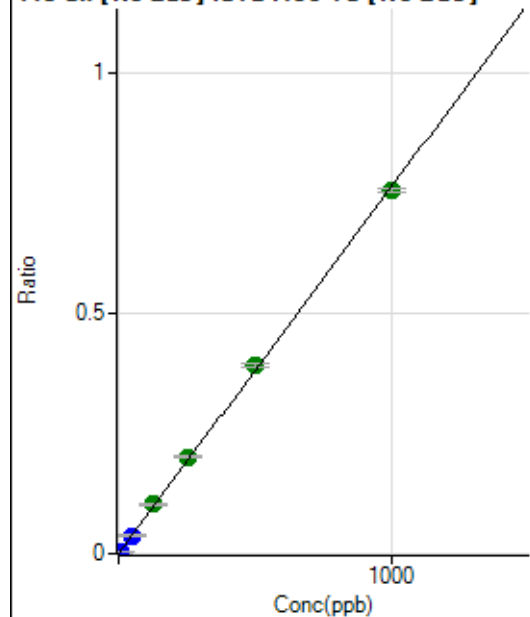
$$DL = 0.01599$$

$$BEC = 0.4455$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	856.73	0.0001	P	2.5
2	☐	5.000	4.708	63219.78	0.0036	P	1.5
3	☐	50.000	48.162	671317.16	0.0369	P	9.0
4	☐	125.000	135.102	1783726.03	0.1033	A	5.3
5	☐	250.000	263.813	3439156.48	0.2016	A	2.2
6	☐	500.000	513.366	6678842.11	0.3923	A	1.5
7	☐	1000.000	988.695	12809157.53	0.7555	A	1.0
8	☐			3874.24	0.0003	P	11.5

$$y = 7.6409\text{E-}004 * x + 5.0411\text{E-}005$$

$$R = 0.9997$$

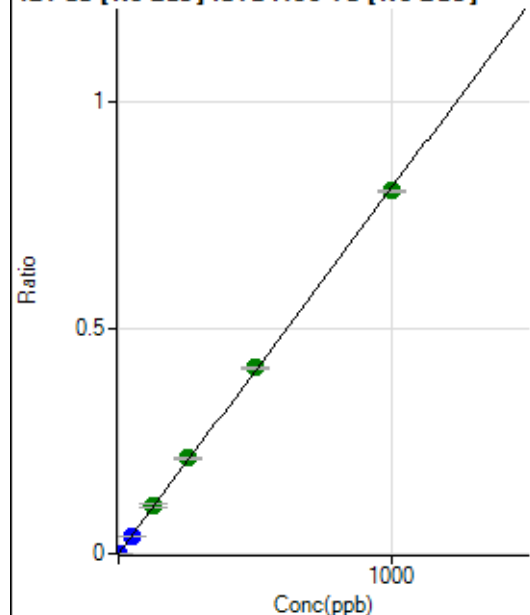
$$DL = 0.005037$$

$$BEC = 0.06598$$

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	95.56	0.0000	P	11.8
2	☐	2.000	2.022	28463.00	0.0016	P	1.4
3	☐	50.000	47.282	697386.27	0.0383	P	8.7
4	☐	125.000	132.189	1846730.32	0.1070	A	7.2
5	☐	250.000	261.254	3606792.83	0.2115	A	1.4
6	☐	500.000	508.568	7007799.83	0.4116	A	1.2
7	☐	1000.000	992.140	13615004.24	0.8030	A	0.7
8	☐			8727.32	0.0006	P	4.9

$$y = 8.0939\text{E-}004 * x + 5.6210\text{E-}006$$

$$R = 0.9998$$

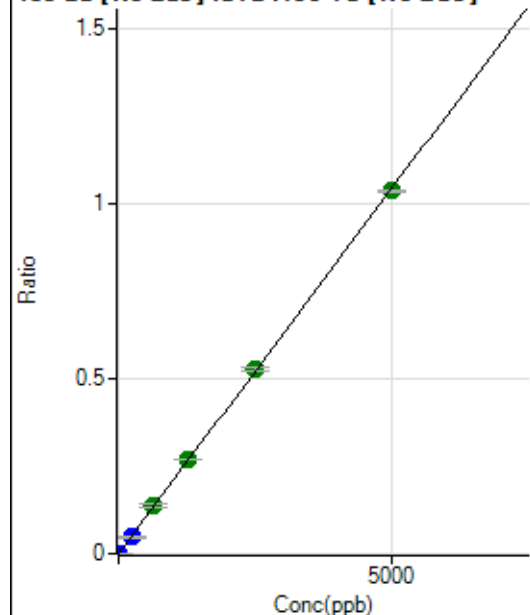
$$DL = 0.002454$$

$$BEC = 0.006945$$

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	286.67	0.0000	P	21.8
2	☐	10.000	10.119	36863.37	0.0021	P	1.4
3	☐	250.000	232.515	883637.46	0.0485	P	8.8
4	☐	625.000	660.035	2376447.47	0.1376	A	6.2
5	☐	1250.000	1292.102	4595443.44	0.2694	A	0.9
6	☐	2500.000	2530.686	8983879.17	0.5277	A	1.6
7	☐	5000.000	4970.626	17572769.32	1.0364	A	0.7
8	☐			7235.33	0.0005	P	7.1

$$y = 2.0851\text{E-}004 * x + 1.6873\text{E-}005$$

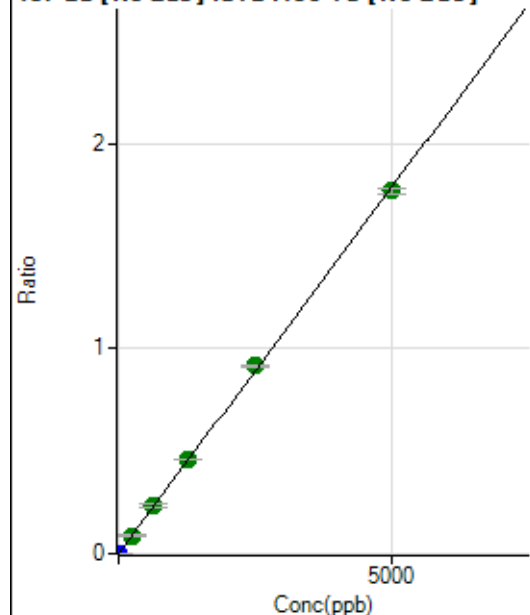
$$R = 0.9999$$

$$DL = 0.05287$$

$$BEC = 0.08092$$

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	444.46	0.0000	P	2.0
2	☐	10.000	10.280	64124.27	0.0037	P	1.8
3	☐	250.000	245.674	1599865.95	0.0878	A	9.0
4	☐	625.000	656.518	4052563.24	0.2346	A	5.2
5	☐	1250.000	1289.261	7858669.53	0.4608	A	1.6
6	☐	2500.000	2561.422	15583035.74	0.9154	A	1.0
7	☐	5000.000	4955.750	30029615.38	1.7710	A	1.4
8	☐			12618.22	0.0008	P	7.4

$$y = 3.5736E-004 * x + 2.6157E-005$$

$$R = 0.9998$$

$$DL = 0.004369$$

$$BEC = 0.07319$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	51.0
2	☐			20.00		P	16.7
3	☐			94.45		P	19.4
4	☐			227.78		P	8.6
5	☐			410.01		P	7.3
6	☐			775.59		P	11.1
7	☐			1465.65		P	7.1
8	☐			317.79		P	9.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			8.89		P	21.6
4	☐			12.22		P	15.7
5	☐			10.00		P	33.3
6	☐			30.00		P	11.1
7	☐			33.33		P	26.4
8	☐			67.78		P	22.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			138.89		P	9.7
2	☐			111.11		P	15.1
3	☐			127.78		P	12.1
4	☐			127.78		P	17.4
5	☐			168.89		P	12.7
6	☐			281.12		P	24.5
7	☐			418.90		P	9.2
8	☐			591.13		P	3.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.66		P	86.6
2	☐			3.33		P	100.1
3	☐			8.89		P	21.6
4	☐			7.78		P	24.7
5	☐			14.44		P	13.4
6	☐			38.89		P	26.2
7	☐			38.89		P	4.9
8	☐			168.89		P	14.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	3.5
2	☐			72.22		P	16.2
3	☐			78.89		P	25.8
4	☐			87.78		P	9.6
5	☐			97.78		P	17.2
6	☐			141.11		P	17.7
7	☐			204.45		P	4.7
8	☐			470.01		P	8.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			13.33		P	75.0
3	☐			12.22		P	41.7
4	☐			12.22		P	41.7
5	☐			30.00		P	38.5
6	☐			47.78		P	10.7
7	☐			53.33		P	16.5
8	☐			203.34		P	17.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	12.0
2	☐			101.11		P	30.6
3	☐			88.89		P	14.2
4	☐			102.22		P	1.9
5	☐			133.34		P	13.2
6	☐			177.78		P	8.5
7	☐			245.56		P	26.2
8	☐			550.02		P	6.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26.67		P	25.0
2	☐			28.89		P	6.7
3	☐			20.00		P	33.4
4	☐			27.78		P	18.3
5	☐			33.33		P	26.4
6	☐			56.67		P	36.7
7	☐			67.78		P	35.6
8	☐			182.23		P	24.9

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.33		P	17.9
2	☐			98.89		P	14.0
3	☐			113.34		P	10.2
4	☐			127.78		P	15.7
5	☐			136.67		P	19.0
6	☐			203.34		P	21.3
7	☐			240.01		P	16.8
8	☐			663.36		P	5.4

172 Yb [He] No available calibration points

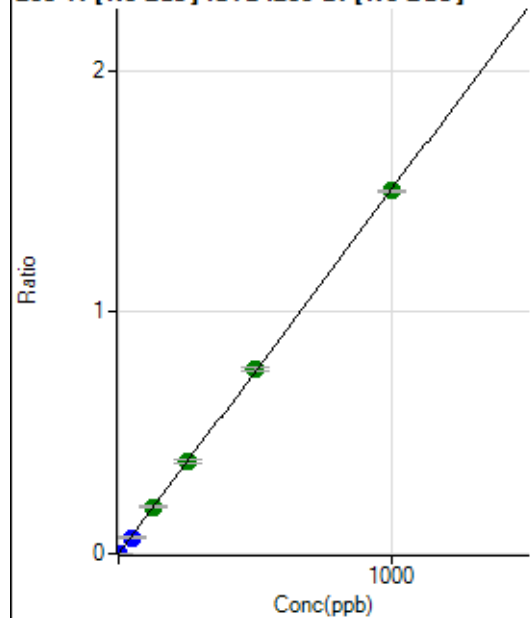
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	31.2
2	☐			37.78		P	5.1
3	☐			37.78		P	25.5
4	☐			32.22		P	26.0
5	☐			48.89		P	30.7
6	☐			73.34		P	34.3
7	☐			103.33		P	14.1
8	☐			250.00		P	7.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2112.41		P	6.2
2	☐			2171.32		P	4.6
3	☐			5593.47		P	4.4
4	☐			10545.40		P	0.3
5	☐			18488.58		P	3.5
6	☐			34637.63		P	3.3
7	☐			65331.60		P	2.3
8	☐			2193.55		P	5.2

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			358.90		P	14.8
2	☐			326.67		P	3.7
3	☐			1444.54		P	3.2
4	☐			3048.16		P	3.7
5	☐			5646.82		P	1.4
6	☐			11049.14		P	2.5
7	☐			21019.04		P	0.7
8	☐			383.35		P	4.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	264.45	0.0000	P	5.5
2	☐	1.000	0.944	15261.27	0.0014	P	5.3
3	☐	50.000	44.447	750399.08	0.0671	P	8.7
4	☐	125.000	127.268	2006603.89	0.1920	A	4.9
5	☐	250.000	252.403	3864080.53	0.3808	A	3.2
6	☐	500.000	506.273	7517879.33	0.7637	A	2.0
7	☐	1000.000	996.257	14484830.48	1.5029	A	0.4
8	☐			1642.35	0.0002	P	19.1

$$y = 0.0015 * x + 2.5632E-005$$

$$R = 0.9999$$

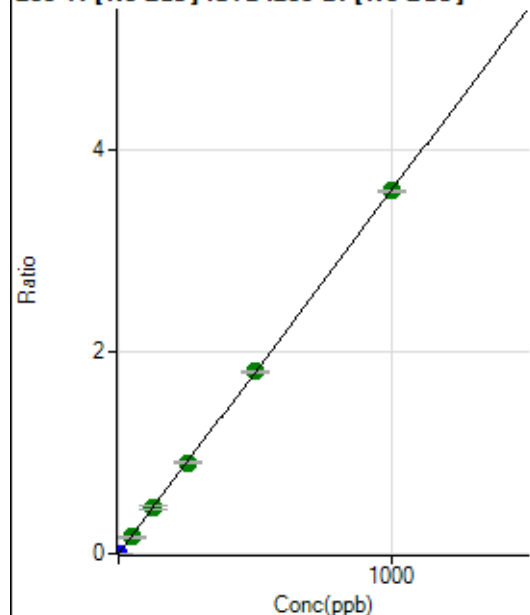
$$DL = 0.002809$$

$$BEC = 0.01699$$

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	703.36	0.0001	P	5.6
2	☐	1.000	0.952	36711.87	0.0035	P	1.7
3	☐	50.000	47.023	1888825.69	0.1689	A	8.9
4	☐	125.000	127.353	4778171.60	0.4572	A	4.7
5	☐	250.000	251.254	9154095.42	0.9019	A	3.1
6	☐	500.000	501.236	17709685.43	1.7992	A	1.6
7	☐	1000.000	998.923	34559890.87	3.5855	A	0.8
8	☐			3990.67	0.0005	P	18.8

$$y = 0.0036 * x + 6.8177E-005$$

$$R = 1.0000$$

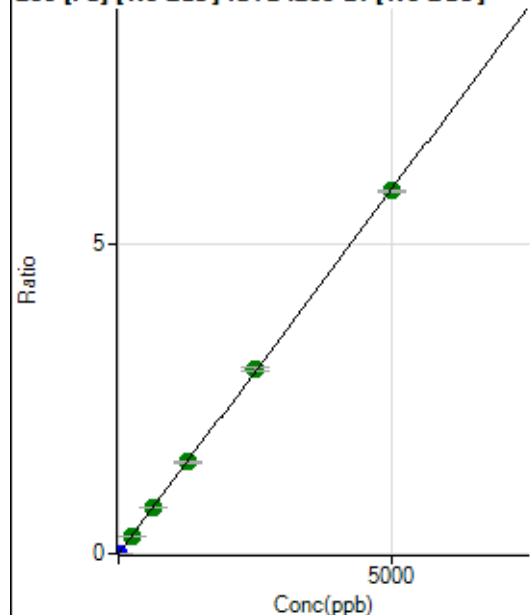
$$DL = 0.003169$$

$$BEC = 0.01899$$

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	1597.90	0.0002	P	2.0
2	☐	1.000	0.990	13886.44	0.0013	P	1.9
3	☐	250.000	237.786	3125888.25	0.2795	A	9.5
4	☐	625.000	633.273	7778657.24	0.7442	A	4.1
5	☐	1250.000	1260.402	15029331.02	1.4810	A	3.1
6	☐	2500.000	2532.051	29284656.51	2.9750	A	1.7
7	☐	5000.000	4980.951	56409227.49	5.8522	A	0.3
8	☐			16848.88	0.0022	P	6.3

$$y = 0.0012 * x + 1.5489E-004$$

$$R = 1.0000$$

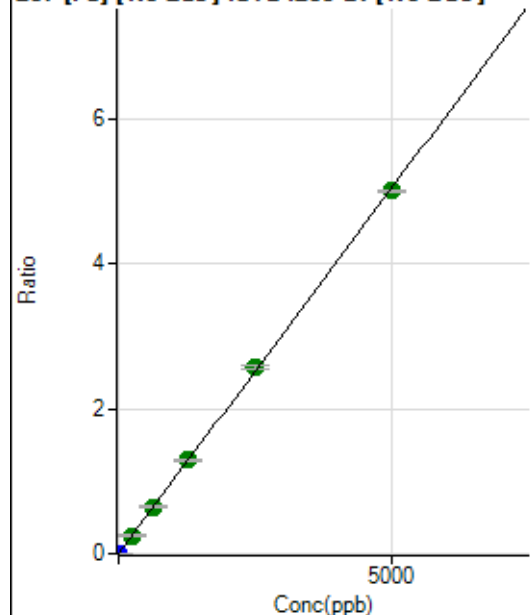
$$DL = 0.007934$$

$$BEC = 0.1318$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1465.65	0.0001	P	5.4
2	☐	1.000	0.997	12082.39	0.0011	P	2.7
3	☐	250.000	242.620	2738468.26	0.2447	A	8.4
4	☐	625.000	641.590	6762541.50	0.6469	A	3.9
5	☐	1250.000	1276.607	13062094.95	1.2871	A	2.8
6	☐	2500.000	2551.501	25322184.90	2.5723	A	2.4
7	☐	5000.000	4965.893	48251109.84	5.0063	A	0.4
8	☐			14477.14	0.0019	P	7.6

$$y = 0.0010 * x + 1.4205E-004$$

$$R = 0.9999$$

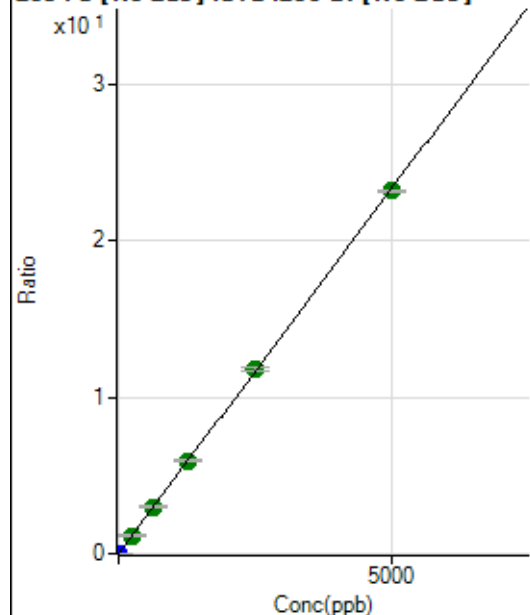
$$DL = 0.02283$$

$$BEC = 0.1409$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6621.85	0.0006	P	0.4
2	☐	1.000	0.990	55353.28	0.0053	P	2.5
3	☐	250.000	239.922	12518252.25	1.1189	A	8.7
4	☐	625.000	637.885	31088948.07	2.9739	A	3.5
5	☐	1250.000	1274.215	60282461.05	5.9398	A	2.3
6	☐	2500.000	2541.332	116608513.2	11.8459	A	2.0
7	☐	5000.000	4972.173	223386996.6	23.1762	A	0.2
8	☐			66589.77	0.0085	P	6.9

$$y = 0.0047 * x + 6.4189E-004$$

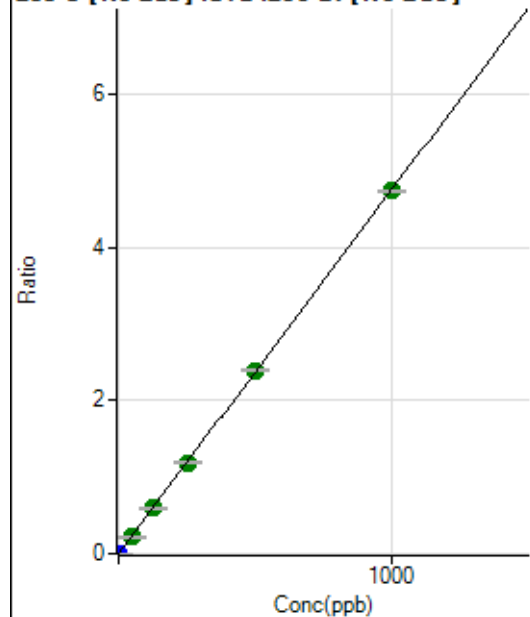
$$R = 0.9999$$

$$DL = 0.001771$$

$$BEC = 0.1377$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	195.56	0.0000	P	13.2
2	☐	1.000	0.935	46930.86	0.0045	P	2.3
3	☐	50.000	46.658	2478345.48	0.2215	A	8.6
4	☐	125.000	124.473	6178807.62	0.5909	A	2.4
5	☐	250.000	250.854	12086317.60	1.1908	A	1.4
6	☐	500.000	504.904	23593804.37	2.3968	A	2.0
7	☐	1000.000	997.568	45643959.88	4.7355	A	0.5
8	☐			3079.33	0.0004	P	31.9

$$y = 0.0047 * x + 1.8960E-005$$

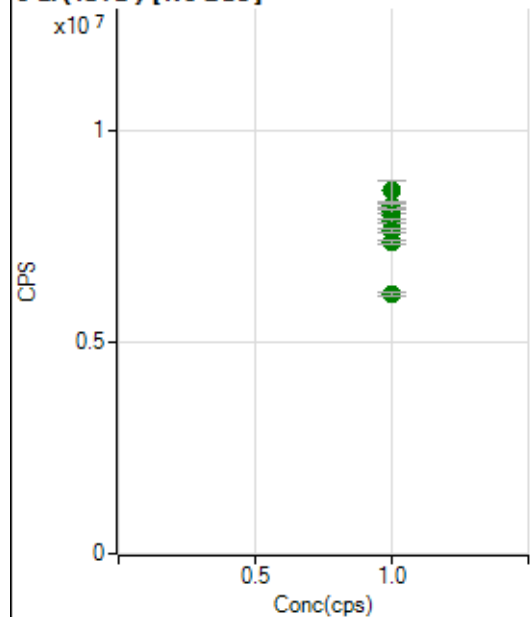
$$R = 1.0000$$

$$DL = 0.001579$$

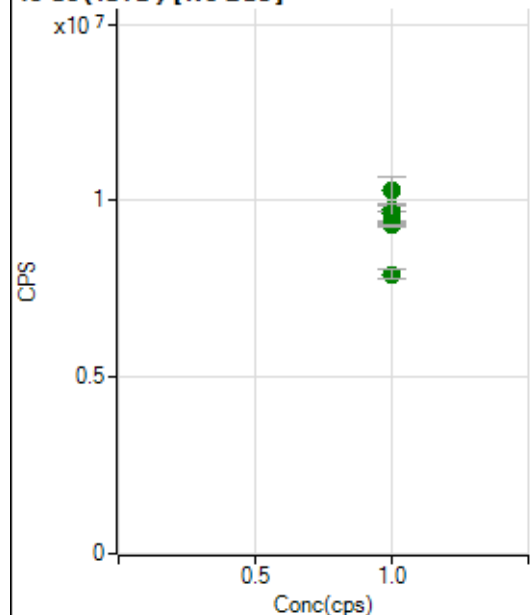
$$BEC = 0.003994$$

Weight: <None>

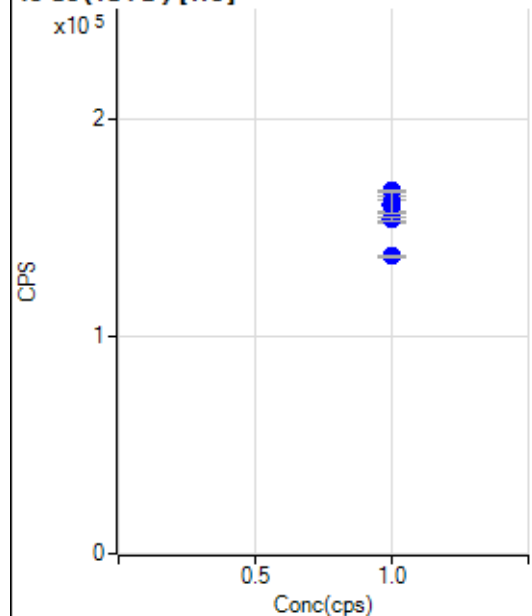
Min Conc: 0

6 Li (ISTD) [No Gas]

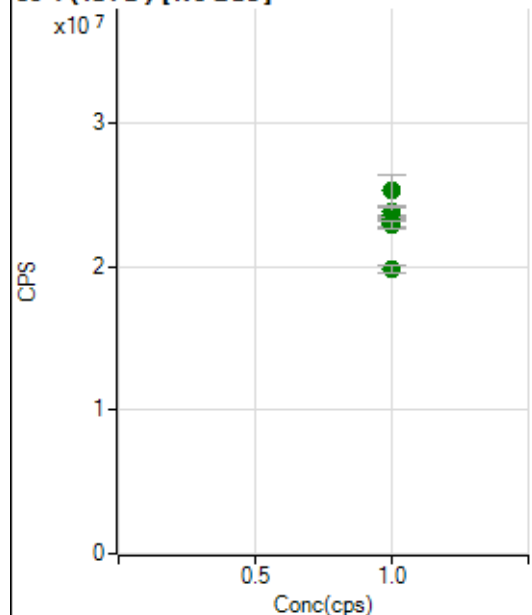
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8099897.79		A	1.0
2	☐	1.000		8230997.70		A	1.1
3	☐	1.000		8586378.49		A	6.2
4	☐	1.000		8031680.48		A	2.7
5	☐	1.000		7867290.98		A	0.9
6	☐	1.000		7652187.86		A	1.2
7	☐	1.000		7372435.59		A	1.7
8	☐	1.000		6149074.87		A	1.5

45 Sc (ISTD) [No Gas]

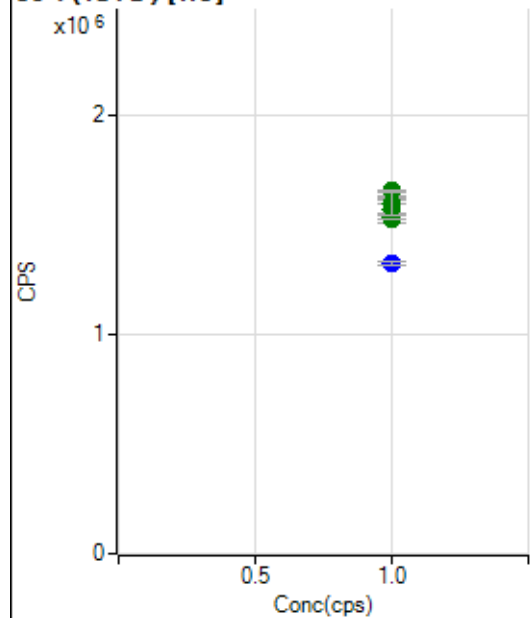
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9420556.46		A	0.3
2	☐	1.000		9758900.41		A	1.7
3	☐	1.000		10280982.42		A	8.1
4	☐	1.000		9630431.45		A	5.6
5	☐	1.000		9390550.14		A	0.5
6	☐	1.000		9336717.71		A	1.4
7	☐	1.000		9293186.60		A	0.8
8	☐	1.000		7920521.76		A	3.8

45 Sc (ISTD) [He]

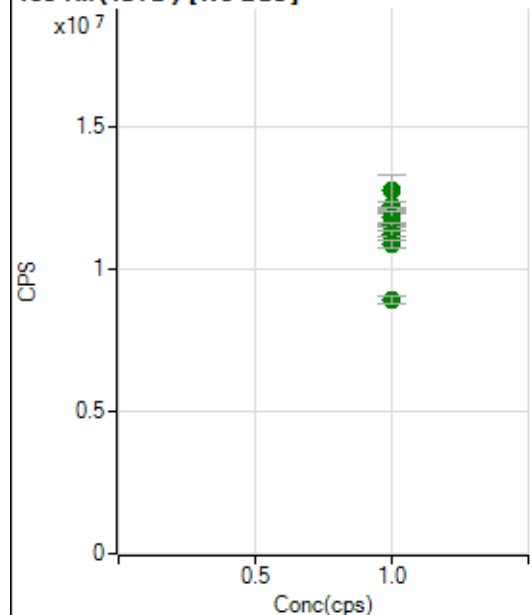
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		164583.24		P	2.6
2	☐	1.000		164655.25		P	0.1
3	☐	1.000		166955.58		P	0.5
4	☐	1.000		160217.40		P	3.5
5	☐	1.000		154685.74		P	2.8
6	☐	1.000		153780.11		P	1.3
7	☐	1.000		161415.83		P	6.0
8	☐	1.000		137089.46		P	0.6

89 Y (ISTD) [No Gas]

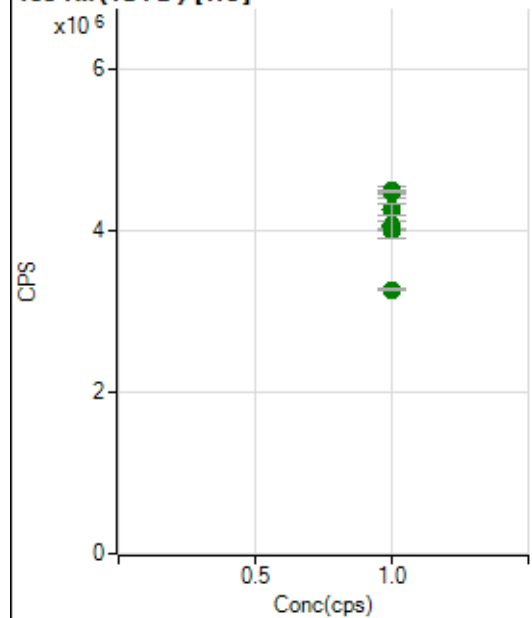
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23414394.09		A	0.3
2	☐	1.000		23890579.37		A	2.4
3	☐	1.000		25283224.90		A	8.3
4	☐	1.000		23631637.43		A	4.1
5	☐	1.000		23264550.76		A	1.1
6	☐	1.000		22993202.43		A	1.9
7	☐	1.000		22877086.88		A	2.3
8	☐	1.000		19821071.79		A	2.6

89 Y (ISTD) [He]

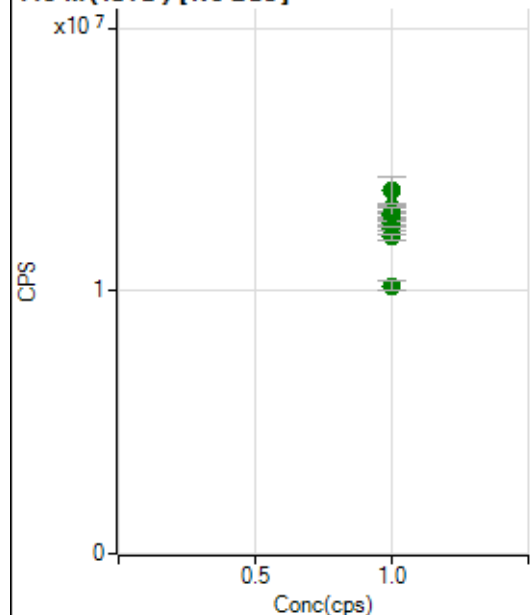
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1632896.80		A	2.4
2	☐	1.000		1628997.88		A	1.0
3	☐	1.000		1656269.02		A	0.2
4	☐	1.000		1574797.65		A	3.4
5	☐	1.000		1532134.89		A	3.1
6	☐	1.000		1530179.16		A	0.1
7	☐	1.000		1598065.39		A	6.8
8	☐	1.000		1325603.04		P	0.9

103 Rh (ISTD) [No Gas]

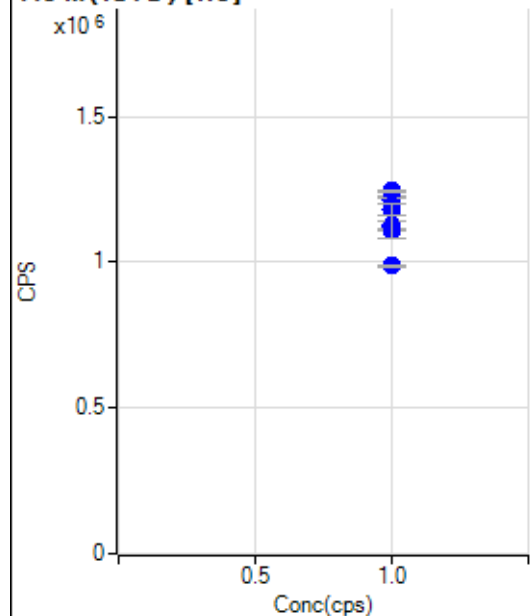
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11959641.91		A	0.5
2	☐	1.000		12220553.57		A	2.0
3	☐	1.000		12722171.20		A	9.3
4	☐	1.000		11792825.93		A	4.1
5	☐	1.000		11516962.33		A	1.2
6	☐	1.000		11222903.03		A	2.2
7	☐	1.000		10849027.20		A	2.7
8	☐	1.000		8893130.28		A	3.4

103 Rh (ISTD) [He]

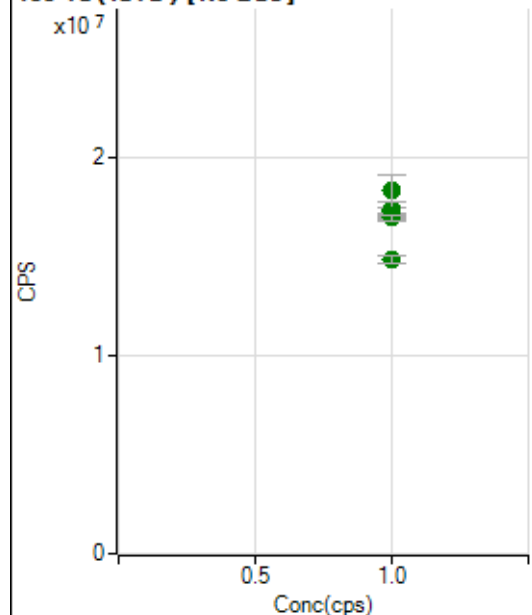
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4460998.20		A	3.2
2	☐	1.000		4460088.09		A	0.6
3	☐	1.000		4485718.02		A	0.8
4	☐	1.000		4247924.94		A	3.4
5	☐	1.000		4066018.27		A	2.0
6	☐	1.000		4000493.59		A	0.7
7	☐	1.000		4031374.39		A	7.0
8	☐	1.000		3267149.43		A	0.4

115 In (ISTD) [No Gas]

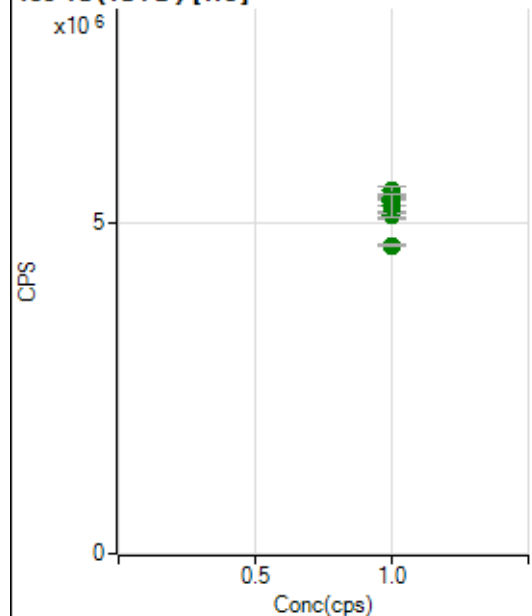
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12884063.97		A	0.6
2	☐	1.000		13182658.65		A	2.1
3	☐	1.000		13813924.83		A	7.9
4	☐	1.000		12953682.42		A	3.5
5	☐	1.000		12570564.69		A	1.0
6	☐	1.000		12370838.36		A	1.0
7	☐	1.000		12071270.94		A	1.9
8	☐	1.000		10212449.56		A	4.0

115 In (ISTD) [He]

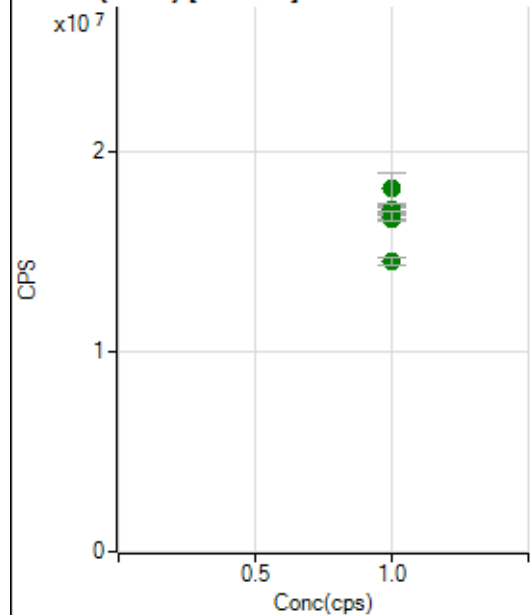
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1214327.48		P	2.5
2	☐	1.000		1219830.30		P	0.3
3	☐	1.000		1244612.39		P	0.8
4	☐	1.000		1182333.51		P	3.1
5	☐	1.000		1127945.65		P	2.6
6	☐	1.000		1105988.31		P	0.1
7	☐	1.000		1121311.33		P	6.9
8	☐	1.000		987108.41		P	0.8

159 Tb (ISTD) [No Gas]

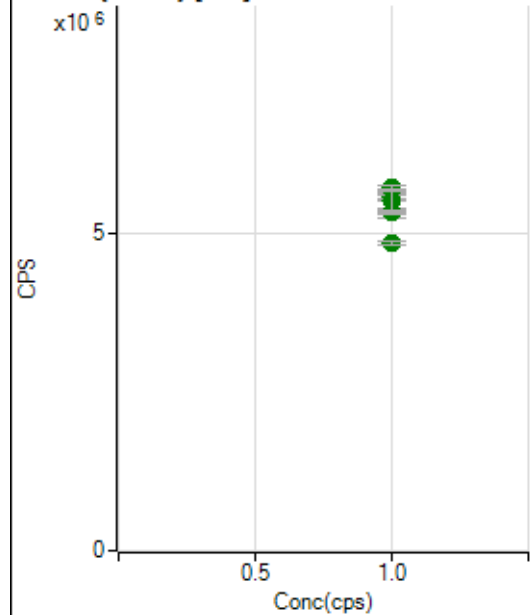
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16993185.72		A	0.6
2	☐	1.000		17334142.66		A	1.4
3	☐	1.000		18314848.89		A	8.9
4	☐	1.000		17301963.49		A	5.1
5	☐	1.000		17054902.66		A	1.0
6	☐	1.000		17022203.77		A	1.5
7	☐	1.000		16953191.55		A	2.0
8	☐	1.000		14860064.23		A	2.9

159 Tb (ISTD) [He]

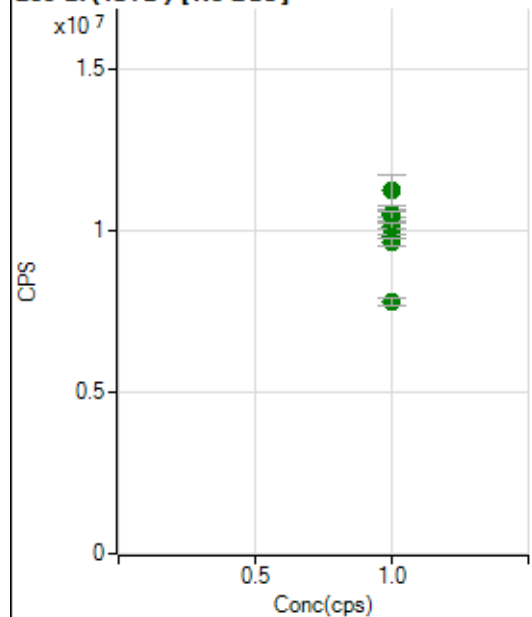
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5335374.92		A	2.3
2	☐	1.000		5397091.69		A	1.7
3	☐	1.000		5492762.76		A	2.6
4	☐	1.000		5346877.53		A	3.4
5	☐	1.000		5124646.59		A	2.7
6	☐	1.000		5144817.36		A	0.1
7	☐	1.000		5273062.14		A	6.7
8	☐	1.000		4663328.96		A	0.8

165 Ho (ISTD) [No Gas]

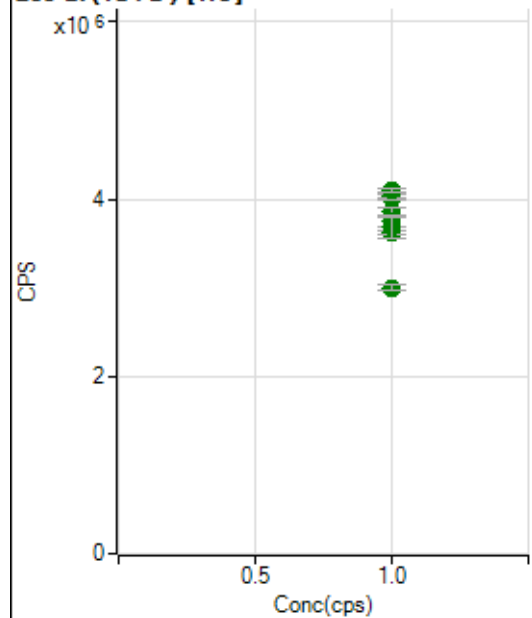
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16594418.92		A	0.4
2	☐	1.000		17048857.24		A	1.3
3	☐	1.000		18129499.45		A	8.8
4	☐	1.000		17117479.19		A	3.1
5	☐	1.000		16785622.25		A	1.5
6	☐	1.000		16719400.45		A	1.6
7	☐	1.000		16750206.28		A	2.6
8	☐	1.000		14541874.51		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5580186.86		A	2.0
2	☐	1.000		5568217.14		A	0.8
3	☐	1.000		5713083.87		A	1.6
4	☐	1.000		5504668.74		A	3.7
5	☐	1.000		5317415.79		A	2.7
6	☐	1.000		5325093.81		A	1.0
7	☐	1.000		5506435.82		A	6.5
8	☐	1.000		4847645.86		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10316036.30		A	0.4
2	☐	1.000		10536375.68		A	2.2
3	☐	1.000		11243167.61		A	8.5
4	☐	1.000		10462106.16		A	3.3
5	☐	1.000		10149366.38		A	1.4
6	☐	1.000		9842359.58		A	1.1
7	☐	1.000		9638528.89		A	2.5
8	☐	1.000		7794924.88		A	3.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4024132.30		A	2.1
2	☐	1.000		4005051.68		A	0.4
3	☐	1.000		4091505.84		A	1.0
4	☐	1.000		3852623.52		A	2.8
5	☐	1.000		3750242.62		A	3.6
6	☐	1.000		3620962.13		A	0.6
7	☐	1.000		3681725.81		A	6.5
8	☐	1.000		2999843.25		A	2.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8012125MS-2.b

Acq. Date-Time 2025-01-21 12:52:00

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		33875	338748.47			1.074	5.000
24		714207	7142074.70			1.052	5.000
25		96261	962605.58			1.094	5.000
26		112578	1125783.96			1.119	5.000
59		156163	1561629.00			1.309	5.000
113		17764	177635.61			1.240	5.000
115		243672	2436715.30			1.634	5.000
206		53400	534004.31			0.746	5.000
207		46175	461754.78			0.943	5.000
208		117288	1172879.81			0.445	5.000
220		0	2.30			36.377	

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

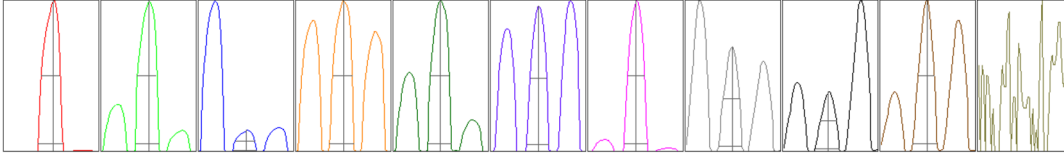
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	34169	33982	34211	33353	33659
24	714894	717952	723188	702988	712015
25	97401	97126	95694	94824	96258
26	113412	113315	113168	110397	112600
59	157652	155862	158474	153198	155629
113	17862	17903	17989	17472	17592
115	245374	246147	247560	237809	241467
206	53252	53580	53762	52773	53635
207	45909	46472	46562	45541	46393
208	117589	116584	117898	116951	117417

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	61761.72	9.10	8.90 - 9.10	
24	1253273.97	24.05	23.90 - 24.10	
25	168737.09	25.05	24.90 - 25.10	
26	193136.92	26.05	25.90 - 26.10	
59	279324.52	59.00	58.90 - 59.10	
113	35896.75	113.05	112.90 - 113.10	
115	484193.73	115.05	114.90 - 115.10	
206	107436.17	206.00	205.90 - 206.10	
207	92856.61	206.95	206.90 - 207.10	
208	235962.98	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.773	0.900	
24	0.61	0.739	0.900	
25	0.61	0.738	0.900	
26	0.61	0.775	0.900	
59	0.59	0.737	0.900	
113	0.52	0.684	0.900	
115	0.53	0.726	0.900	
206	0.51	0.740	0.900	
207	0.51	0.772	0.900	
208	0.51	0.768	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	1.80 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	8.1 V	Deflect	15.4 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm
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EM

Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		26332	263318.53			1.885	
89		20320	203203.32			1.969	
205		29292	292922.19			1.152	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26161	26195	25939	26164	27201
89	20323	20303	19870	20146	20959
205	28957	29117	29199	29348	29840

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	8.1 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-130.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-65 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	103	Axis Gain	0.9959	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		
Hardware Settings					
Torch					
Torch H	-0.2 mm	Torch V	1.5 mm		
EM					
Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V