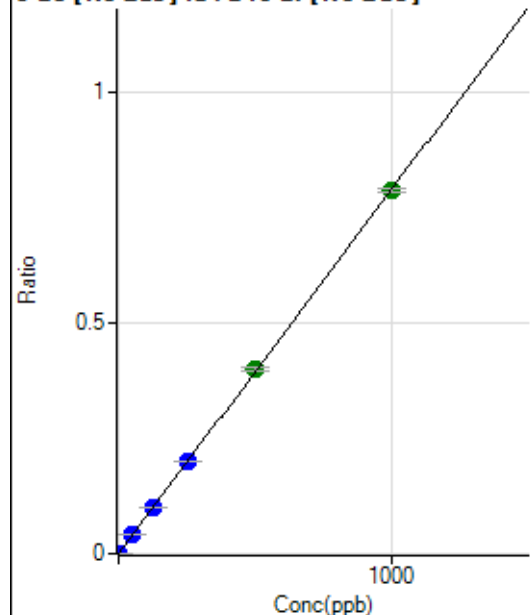


Calibration for 003CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7051622-MS.b\
 Analysis File: P7051622-MS.batch.bin
 DA Date-Time: 2022-05-16 18:13:19
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-05-16 15:44:08
2	004CALS.d	S02	2022-05-16 15:47:02
3	005CALS.d	S03	2022-05-16 15:49:54
4	006CALS.d	S04	2022-05-16 15:52:41
5	007CALS.d	S05	2022-05-16 15:55:25
6	008CALS.d	S06	2022-05-16 15:58:12
7	009CALS.d	S07	2022-05-16 16:00:57
8	010CALS.d	S08	2022-05-16 16:03:44

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	64.45	0.0000	P	23.7
2	☐	1.000	1.077	2573.57	0.0009	P	1.6
3	☐	50.000	52.181	124802.69	0.0411	P	1.4
4	☐	125.000	127.412	307213.76	0.1004	P	1.0
5	☐	250.000	251.281	589435.21	0.1979	P	0.0
6	☐	500.000	505.563	1131166.04	0.3982	A	1.9
7	☐	1000.000	996.488	2142219.95	0.7848	A	1.0
8	☐			342.23	0.0001	P	23.9

$$y = 7.8750E-004 * x + 2.1629E-005$$

$$R = 1.0000$$

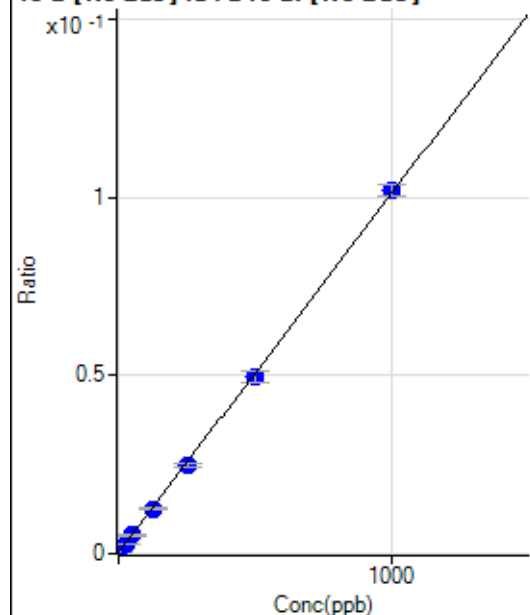
$$DL = 0.0195$$

$$BEC = 0.02747$$

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	905.61	0.0003	P	8.1
2	☐	25.000	23.439	7888.32	0.0027	P	2.4
3	☐	50.000	48.354	15711.15	0.0052	P	2.8
4	☐	125.000	121.843	38495.74	0.0126	P	4.3
5	☐	250.000	244.791	74353.87	0.0250	P	4.0
6	☐	500.000	488.863	140699.91	0.0495	P	5.9
7	☐	1000.000	1007.387	277801.78	0.1018	P	3.1
8	☐			14993.72	0.0056	P	10.6

$$y = 1.0072E-004 * x + 3.0433E-004$$

$$R = 0.9999$$

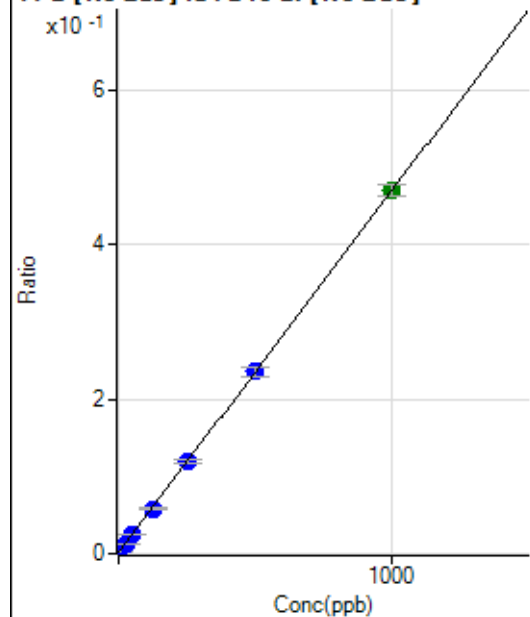
$$DL = 0.7315$$

$$BEC = 3.022$$

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	4386.83	0.0015	P	3.9
2	☐	25.000	22.765	35914.70	0.0121	P	7.4
3	☐	50.000	49.953	75490.43	0.0249	P	5.8
4	☐	125.000	121.173	178150.24	0.0582	P	6.1
5	☐	250.000	250.950	354364.60	0.1190	P	3.3
6	☐	500.000	500.108	669118.04	0.2356	P	5.4
7	☐	1000.000	1000.245	1282320.64	0.4697	A	3.3
8	☐			70096.58	0.0263	P	12.0

$$y = 4.6815E-004 * x + 0.0015$$

R = 1.0000

DL = 0.3677

BEC = 3.149

Weight: <None>

Min Conc: 0

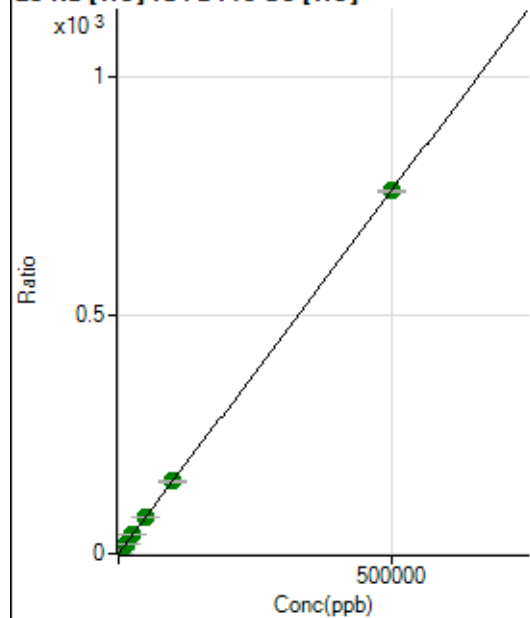
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16653.70	0.0284	P	1.5
2	☐	500.000	484.442	448200.97	0.7641	P	0.4
3	☐	5000.000	5131.021	4573311.15	7.8208	A	0.7
4	☐	12500.000	12941.138	11095354.65	19.6819	A	0.2
5	☐	25000.000	25574.920	21352881.49	38.8686	A	1.2
6	☐	50000.000	50832.732	41009888.42	77.2272	A	0.3
7	☐	100000.00	99755.389	80055466.60	151.5253	A	1.4
8	☐	500000.00	499924.58	415251972.25	759.2557	A	0.3

$$y = 0.0015 * x + 0.0284$$

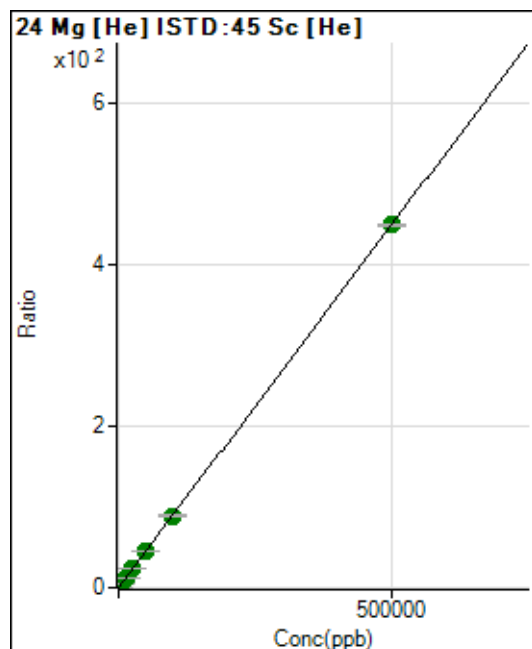
$$R = 1.0000$$

$$DL = 0.8249$$

$$BEC = 18.7$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	885.23	0.0015	P	9.3
2	☐	500.000	501.158	264751.14	0.4514	P	0.1
3	☐	5000.000	5192.664	2726298.06	4.6626	A	1.4
4	☐	12500.000	12967.695	6562929.20	11.6416	A	0.7
5	☐	25000.000	25607.319	12628148.43	22.9872	A	1.4
6	☐	50000.000	50747.261	24189967.21	45.5534	A	0.6
7	☐	100000.00	99283.167	47084719.57	89.1204	A	1.5
8	☐	500000.00	500024.65	245470268.45	448.8352	A	0.7

$$y = 8.9762\text{E-}004 * x + 0.0015$$

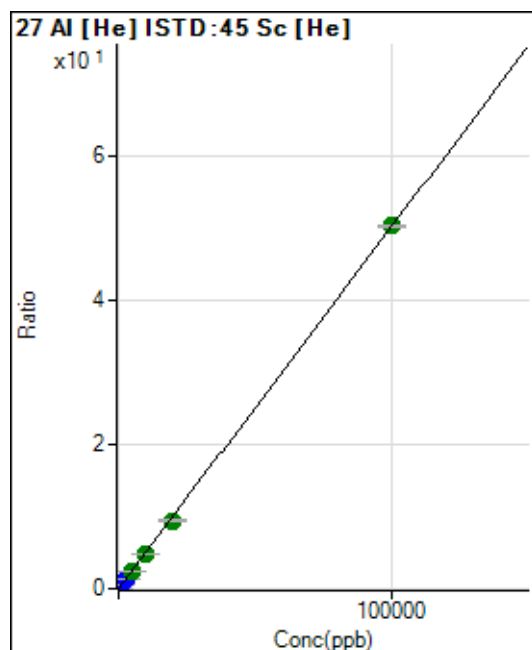
$$R = 1.0000$$

$$DL = 0.4675$$

$$BEC = 1.681$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1566.77	0.0027	P	10.0
2	☐	20.000	18.008	6859.05	0.0117	P	5.2
3	☐	1000.000	967.339	284898.97	0.4872	P	1.4
4	☐	2500.000	2450.334	693411.38	1.2301	P	0.8
5	☐	5000.000	4856.740	1337986.41	2.4355	A	1.1
6	☐	10000.000	9706.595	2583421.79	4.8649	A	1.0
7	☐	20000.000	18852.274	4990873.26	9.4462	A	0.9
8	☐	100000.00	100267.61	27470899.46	50.2288	A	0.3

$$y = 5.0092\text{E-}004 * x + 0.0027$$

$$R = 0.9999$$

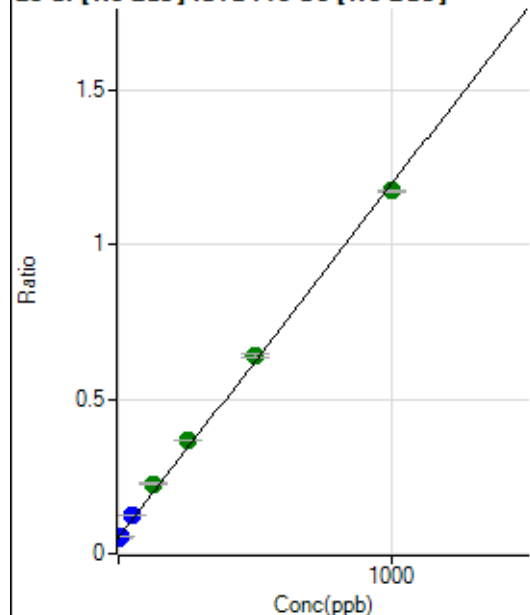
$$DL = 1.593$$

$$BEC = 5.335$$

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	361757.38	0.0516	P	0.7
2	☐	10.000	5.626	410008.83	0.0581	P	0.6
3	☐	50.000	62.651	870843.38	0.1234	P	2.1
4	☐	125.000	153.279	1576440.01	0.2271	A	5.2
5	☐	250.000	275.237	2456202.92	0.3668	A	1.1
6	☐	500.000	516.476	4200676.61	0.6430	A	2.1
7	☐	1000.000	981.329	7492476.99	1.1753	A	0.6
8	☐			689240.01	0.1076	P	4.2

$$y = 0.0011 * x + 0.0516$$

$$R = 0.9991$$

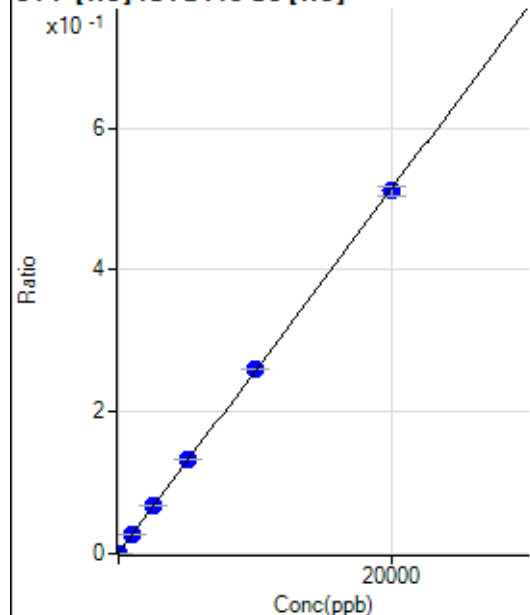
$$DL = 0.9498$$

$$BEC = 45.09$$

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	-5.912	497.24	0.0008	P	5.5
2	☐	0.000	5.912	675.03	0.0012	P	11.0
3	☐	1000.000	1045.130	16259.02	0.0278	P	3.5
4	☐	2500.000	2636.331	38680.18	0.0686	P	0.5
5	☐	5000.000	5157.211	73225.44	0.1333	P	1.0
6	☐	10000.000	10100.334	138097.39	0.2601	P	0.4
7	☐	20000.000	19891.232	270050.97	0.5112	P	2.4
8	☐			541.69	0.0010	P	5.9

$$y = 2.5649E-005 * x + 9.9919E-004$$

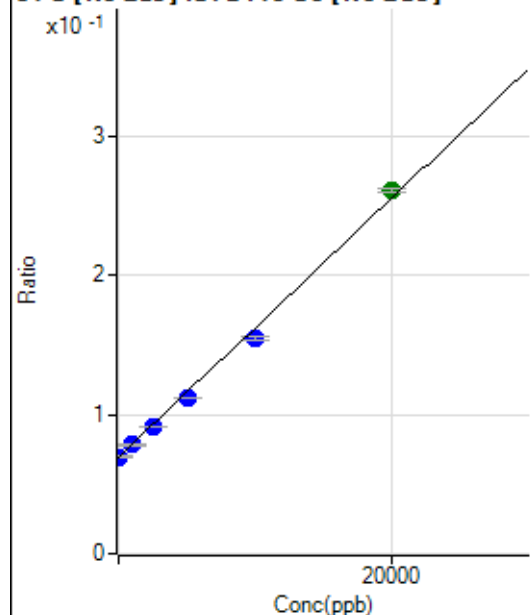
$$R = 0.9999$$

$$DL = 10.1$$

$$BEC = 38.96$$

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	7.693	487881.74	0.0696	P	1.3
2	☐	0.000	-7.693	490614.47	0.0695	P	1.2
3	☐	1000.000	966.881	554326.47	0.0785	P	1.7
4	☐	2500.000	2306.843	631898.78	0.0910	P	1.0
5	☐	5000.000	4576.511	750962.77	0.1121	P	0.4
6	☐	10000.000	9146.932	1010527.90	0.1547	P	1.3
7	☐	20000.000	20558.207	1662956.95	0.2608	A	1.0
8	☐			377408.20	0.0589	P	1.0

$$y = 9.3044\text{E-}006 * x + 0.0696$$

$$R = 0.9984$$

$$DL = 276.3$$

$$BEC = 7475$$

Weight: <None>

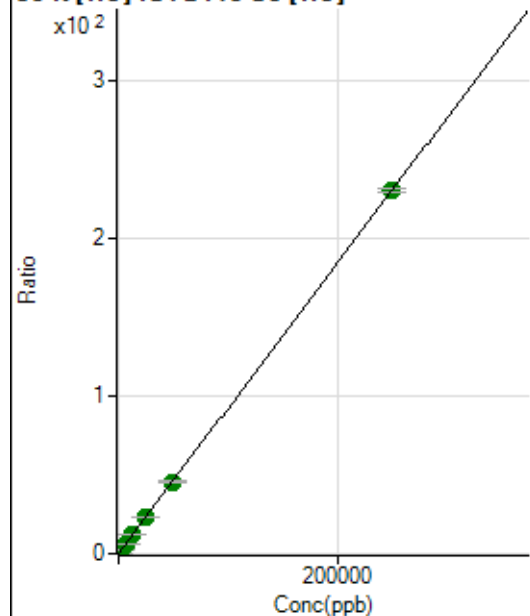
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	74681.25	0.1274	P	1.7
2	☐	500.000	509.786	349914.59	0.5966	P	0.7
3	☐	2500.000	2528.323	1435022.56	2.4543	A	1.9
4	☐	6250.000	6403.751	3394164.62	6.0211	A	0.5
5	☐	12500.000	12571.595	6426361.21	11.6976	A	0.8
6	☐	25000.000	25013.056	12292252.88	23.1481	A	0.4
7	☐	50000.000	49390.149	24083484.91	45.5835	A	1.2
8	☐	250000.00	250112.93	125962036.15	230.3184	A	0.9

$$y = 9.2035E-004 * x + 0.1274$$

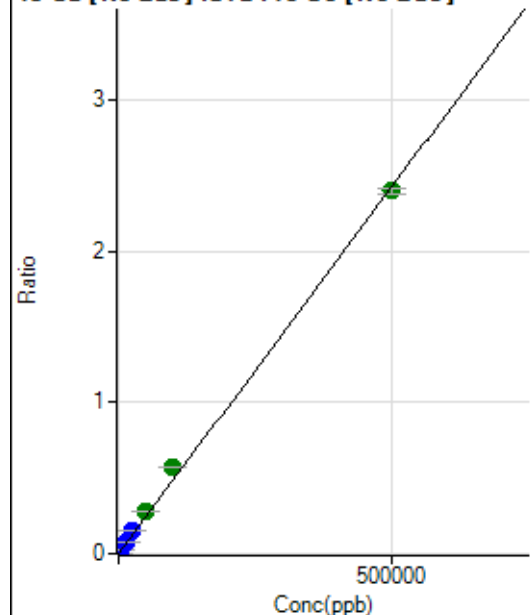
$$R = 1.0000$$

$$DL = 7.183$$

$$BEC = 138.4$$

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	758.37	0.0001	P	8.8
2	☐	500.000	515.088	18372.70	0.0026	P	2.0
3	☐	5000.000	6189.565	212248.24	0.0301	P	0.3
4	☐	12500.000	15406.017	518505.83	0.0747	P	1.8
5	☐	25000.000	30911.848	1002881.04	0.1498	P	0.2
6	☐	50000.000	58581.774	1853704.28	0.2837	A	0.6
7	☐	100000.00	118709.02	3664146.09	0.5748	A	1.1
8	☐	500000.00	495019.86	15349230.90	2.3965	A	1.4

$$y = 4.8410E-006 * x + 1.0818E-004$$

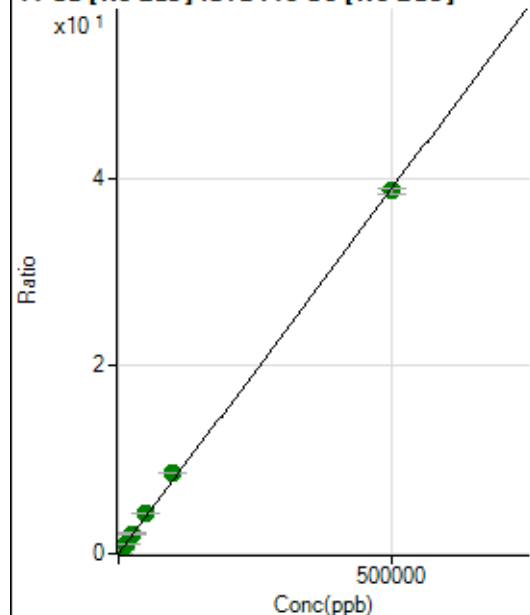
$$R = 0.9992$$

$$DL = 5.932$$

$$BEC = 22.35$$

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	25280.48	0.0036	P	2.4
2	☐	500.000	509.611	304916.27	0.0432	P	0.9
3	☐	5000.000	5618.569	3104381.67	0.4399	A	1.6
4	☐	12500.000	13873.804	7503825.08	1.0809	A	2.1
5	☐	25000.000	27629.999	14392531.05	2.1491	A	0.3
6	☐	50000.000	54430.025	27637711.03	4.2302	A	1.4
7	☐	100000.00	110351.20	54652215.11	8.5725	A	0.4
8	☐	500000.00	497314.71	247373027.75	38.6207	A	1.3

$$y = 7.7651E-005 * x + 0.0036$$

$$R = 0.9998$$

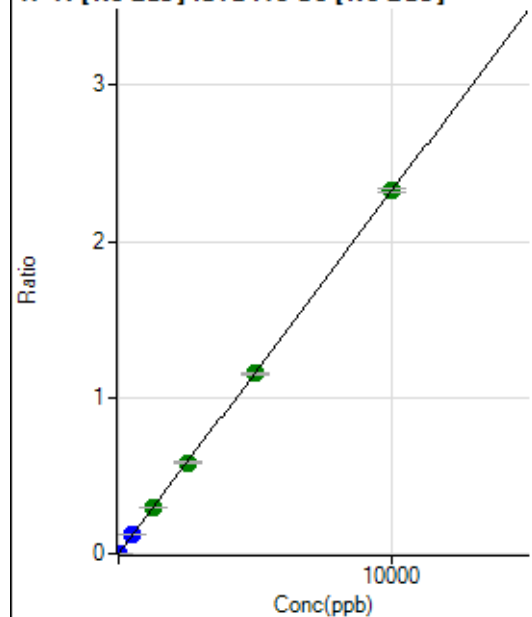
$$DL = 3.372$$

$$BEC = 46.46$$

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	127.78	0.0000	P	30.7
2	☐	5.000	5.016	8355.29	0.0012	P	6.8
3	☐	500.000	507.510	832007.02	0.1179	P	1.3
4	☐	1250.000	1269.866	2047661.05	0.2950	A	1.8
5	☐	2500.000	2518.128	3916975.09	0.5849	A	0.7
6	☐	5000.000	4972.231	7545232.72	1.1549	A	1.6
7	☐	10000.000	10006.494	14817212.14	2.3241	A	1.2
8	☐			2936.48	0.0005	P	2.3

$$y = 2.3226\text{E-}004 * x + 1.8262\text{E-}005$$

$$R = 1.0000$$

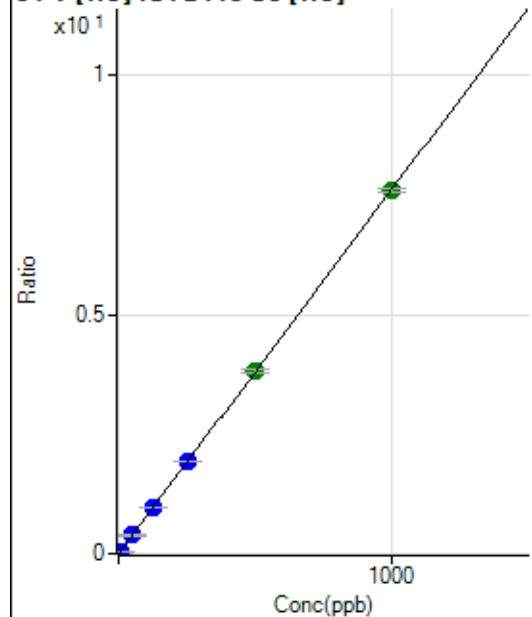
$$DL = 0.07236$$

$$BEC = 0.07863$$

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	45.55	0.0001	P	36.1
2	☐	5.000	4.861	21745.76	0.0371	P	0.7
3	☐	50.000	50.407	224347.16	0.3837	P	1.4
4	☐	125.000	128.448	551080.91	0.9776	P	1.0
5	☐	250.000	254.025	1062116.91	1.9333	P	0.5
6	☐	500.000	502.486	2030708.56	3.8241	A	1.5
7	☐	1000.000	997.300	4010218.17	7.5898	A	1.0
8	☐			998.93	0.0018	P	4.4

$$y = 0.0076 * x + 7.7944\text{E-}005$$

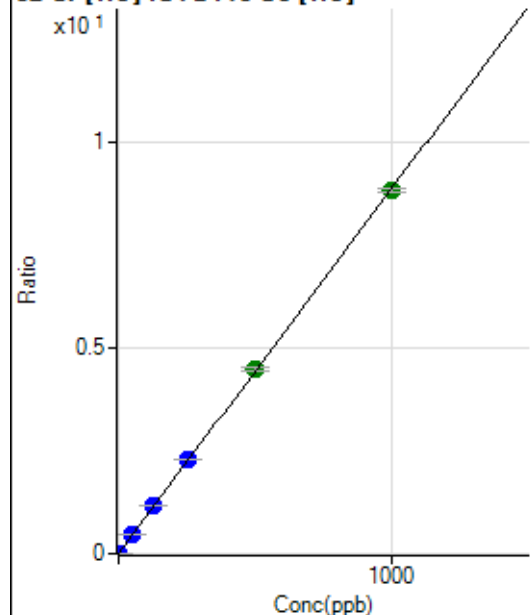
$$R = 1.0000$$

$$DL = 0.01109$$

$$BEC = 0.01024$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2885.86	0.0049	P	3.5
2	☐	2.000	1.935	12936.74	0.0221	P	2.0
3	☐	50.000	51.707	270596.96	0.4628	P	1.3
4	☐	125.000	129.623	649800.30	1.1527	P	0.8
5	☐	250.000	258.449	1260015.07	2.2935	P	0.3
6	☐	500.000	505.480	2379459.88	4.4809	A	1.4
7	☐	1000.000	994.485	4655318.92	8.8110	A	0.9
8	☐			46812.42	0.0856	P	0.8

$$y = 0.0089 * x + 0.0049$$

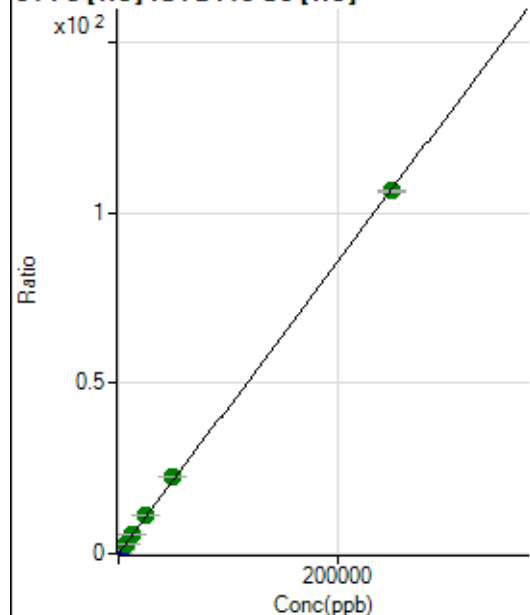
$$R = 0.9999$$

$$DL = 0.05839$$

$$BEC = 0.5557$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1655.13	0.0028	P	7.5
2	☐	50.000	53.118	14976.15	0.0255	P	1.6
3	☐	2500.000	2793.842	700149.10	1.1973	P	0.8
4	☐	6250.000	6861.248	1655251.15	2.9364	A	0.8
5	☐	12500.000	13595.000	3194785.71	5.8155	A	1.4
6	☐	25000.000	26650.352	6052281.45	11.3974	A	0.5
7	☐	50000.000	52564.585	11876586.17	22.4772	A	0.6
8	☐	250000.00	249249.07	58284336.03	106.5710	A	0.7

$$y = 4.2756E-004 * x + 0.0028$$

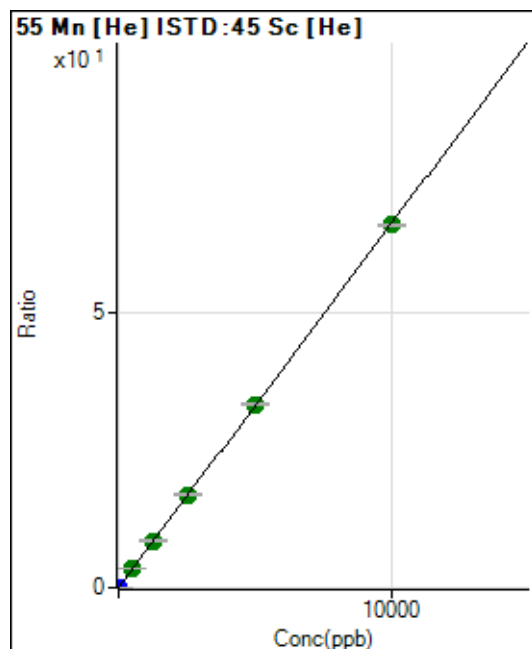
$$R = 0.9999$$

$$DL = 1.492$$

$$BEC = 6.597$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	397.79	0.0007	P	10.7
2	☐	1.000	1.016	4355.12	0.0074	P	3.3
3	☐	500.000	511.521	1986586.41	3.3971	A	0.3
4	☐	1250.000	1287.448	4819150.80	8.5491	A	1.2
5	☐	2500.000	2552.972	9312820.42	16.9519	A	1.1
6	☐	5000.000	5041.198	17775138.35	33.4732	A	0.3
7	☐	10000.000	9960.901	34946645.04	66.1390	A	0.5
8	☐			22109.63	0.0404	P	0.4

$$y = 0.0066 * x + 6.7898E-004$$

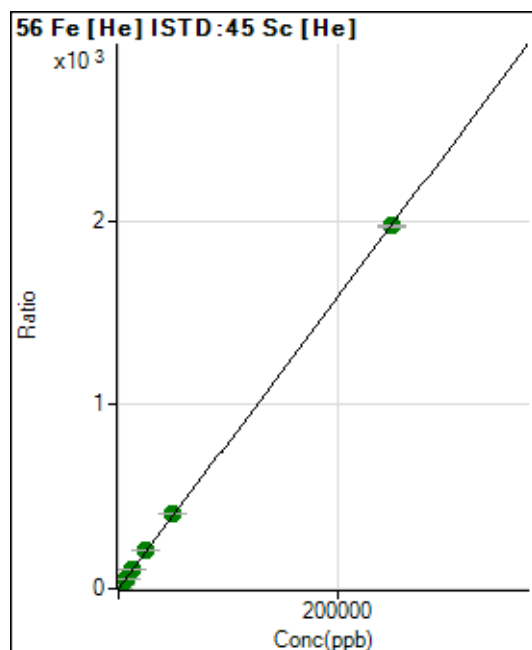
$$R = 1.0000$$

$$DL = 0.03285$$

$$BEC = 0.1023$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19269.92	0.0329	P	0.4
2	☐	50.000	50.408	253068.76	0.4314	P	0.6
3	☐	2500.000	2636.198	12207929.56	20.8778	A	1.1
4	☐	6250.000	6688.393	29830981.22	52.9194	A	0.8
5	☐	12500.000	13267.374	57650456.84	104.9408	A	1.3
6	☐	25000.000	26171.626	109910155.23	206.9774	A	0.6
7	☐	50000.000	51496.331	215166334.44	407.2251	A	0.6
8	☐	250000.00	249532.88	1079128527.8	1,973.141	A	0.5

$$y = 0.0079 * x + 0.0329$$

$$R = 1.0000$$

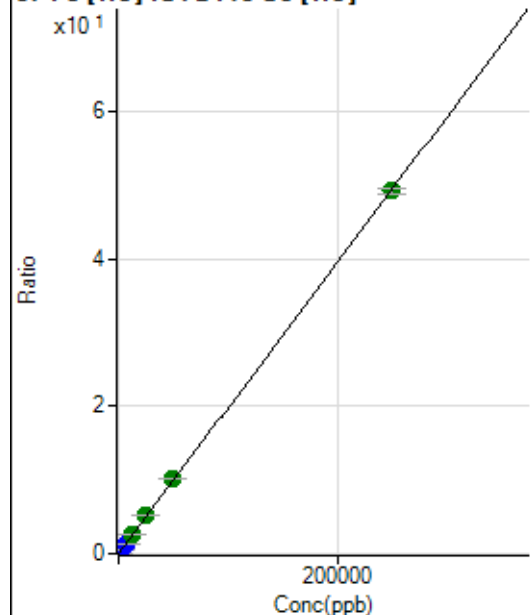
$$DL = 0.0556$$

$$BEC = 4.156$$

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	714.85	0.0012	P	8.9
2	☐	50.000	48.889	6382.95	0.0109	P	4.6
3	☐	2500.000	2688.890	311466.50	0.5327	P	1.7
4	☐	6250.000	6827.172	761377.80	1.3507	P	0.9
5	☐	12500.000	13204.586	1434539.87	2.6112	A	0.8
6	☐	25000.000	26362.704	2767699.31	5.2120	A	0.8
7	☐	50000.000	51472.689	5375832.12	10.1752	A	1.5
8	☐	250000.00	249517.64	26973234.40	49.3203	A	1.3

$$y = 1.9766E-004 * x + 0.0012$$

R = 1.0000

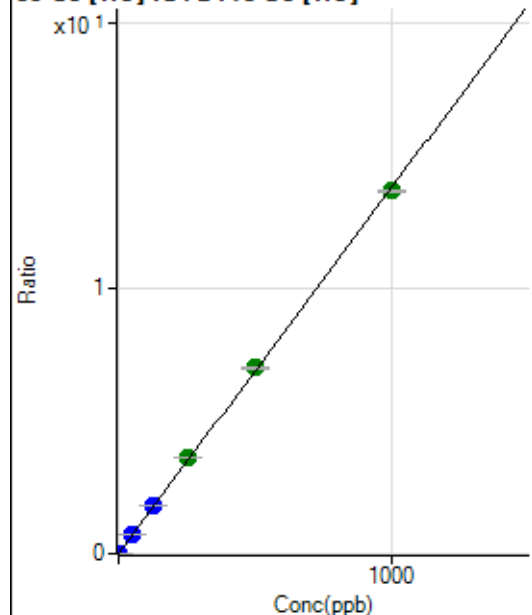
DL = 1.654

BEC = 6.167

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	122.23	0.0002	P	8.6
2	☐	1.000	1.038	8521.40	0.0145	P	1.4
3	☐	50.000	52.182	420920.58	0.7199	P	2.0
4	☐	125.000	131.916	1025727.27	1.8196	P	0.9
5	☐	250.000	262.762	1991123.43	3.6243	A	1.4
6	☐	500.000	508.500	3724398.70	7.0136	A	0.9
7	☐	1000.000	991.586	7225994.13	13.6764	A	0.8
8	☐			22503.60	0.0411	P	1.2

$$y = 0.0138 * x + 2.0848E-004$$

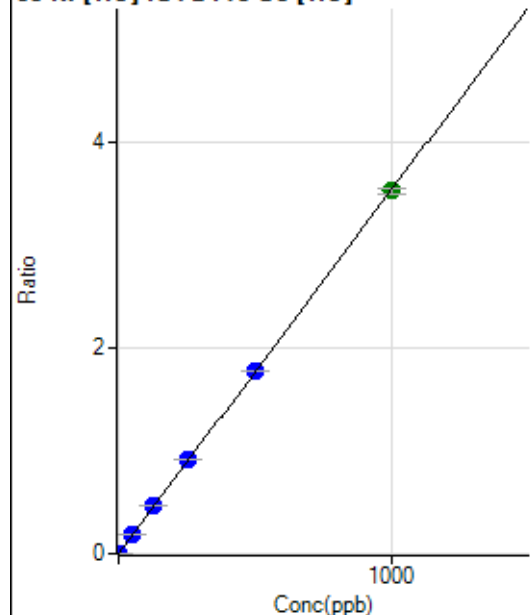
R = 0.9998

DL = 0.003882

BEC = 0.01512

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	83.33	0.0001	P	5.4
2	☐	1.000	0.995	2149.06	0.0037	P	5.5
3	☐	50.000	52.574	108907.55	0.1862	P	0.8
4	☐	125.000	131.760	263006.90	0.4666	P	0.5
5	☐	250.000	258.497	502777.31	0.9152	P	1.0
6	☐	500.000	499.902	939778.08	1.7697	P	0.2
7	☐	1000.000	996.951	1864578.17	3.5292	A	1.5
8	☐			16034.22	0.0293	P	2.2

$$y = 0.0035 * x + 1.4218E-004$$

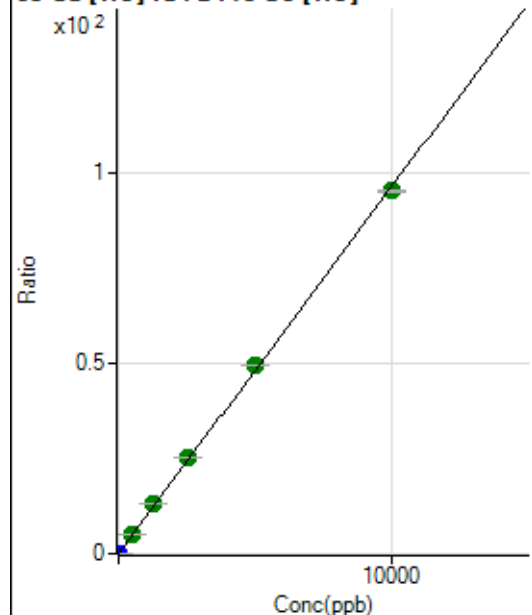
$$R = 0.9999$$

$$DL = 0.006508$$

$$BEC = 0.04016$$

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	1000.05	0.0017	P	3.7
2	☐	2.000	2.037	12538.66	0.0214	P	2.7
3	☐	500.000	534.015	3017116.59	5.1598	A	1.5
4	☐	1250.000	1344.129	7319984.82	12.9848	A	0.9
5	☐	2500.000	2613.970	13871327.29	25.2504	A	1.5
6	☐	5000.000	5136.758	26348694.33	49.6183	A	0.1
7	☐	10000.000	9889.662	50474067.58	95.5273	A	0.8
8	☐			17954.19	0.0328	P	0.5

$$y = 0.0097 * x + 0.0017$$

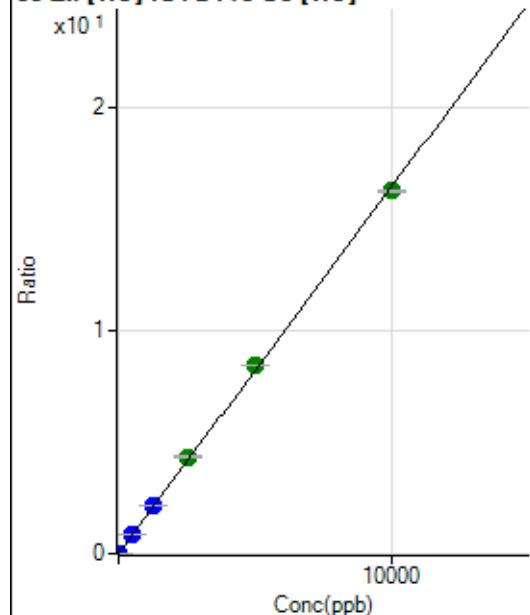
$$R = 0.9998$$

$$DL = 0.01958$$

$$BEC = 0.1765$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	545.57	0.0009	P	11.0
2	☐	2.000	1.913	2387.99	0.0041	P	2.9
3	☐	500.000	518.236	497985.96	0.8517	P	1.9
4	☐	1250.000	1314.145	1216746.64	2.1584	P	0.6
5	☐	2500.000	2625.133	2367919.42	4.3106	A	2.3
6	☐	5000.000	5137.291	4479118.68	8.4348	A	0.1
7	☐	10000.000	9891.142	8580575.08	16.2392	A	0.5
8	☐			14859.70	0.0272	P	1.6

$$y = 0.0016 * x + 9.3017E-004$$

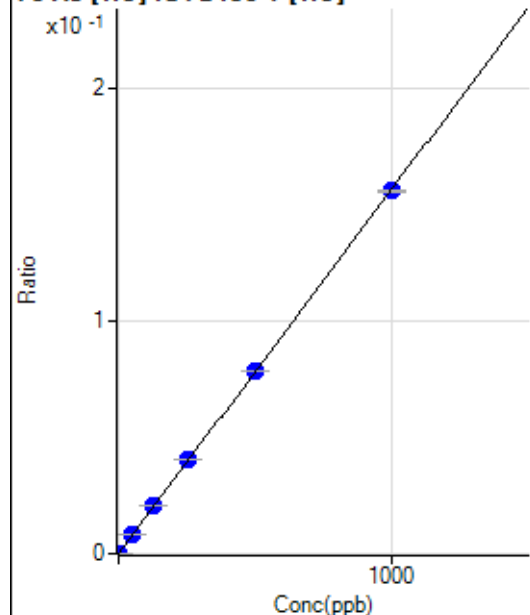
$$R = 0.9998$$

$$DL = 0.1867$$

$$BEC = 0.5666$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.58	0.0000	P	27.9
2	☐	1.000	1.071	658.66	0.0002	P	1.0
3	☐	50.000	51.484	31084.86	0.0081	P	3.0
4	☐	125.000	130.663	76492.80	0.0204	P	0.3
5	☐	250.000	256.966	148039.01	0.0402	P	0.3
6	☐	500.000	502.005	281806.30	0.0785	P	0.9
7	☐	1000.000	996.474	554618.38	0.1558	P	0.4
8	☐			279.63	0.0001	P	7.8

$$y = 1.5632E-004 * x + 3.5091E-006$$

$$R = 1.0000$$

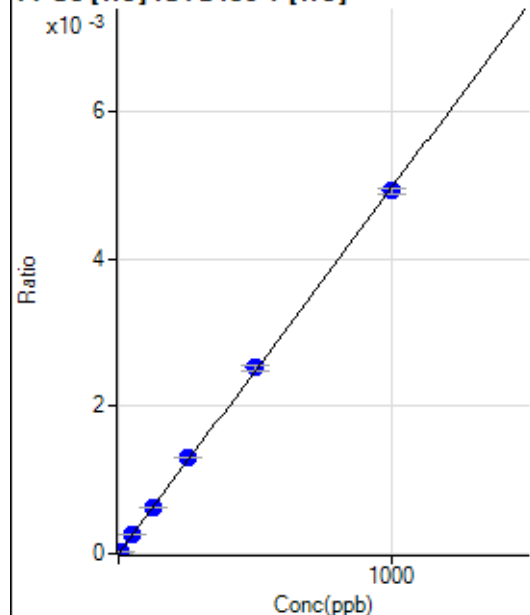
$$DL = 0.0188$$

$$BEC = 0.02245$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.054	98.89	0.0000	P	15.8
3	☐	50.000	51.615	992.27	0.0003	P	2.5
4	☐	125.000	126.057	2346.88	0.0006	P	0.3
5	☐	250.000	263.719	4829.72	0.0013	P	1.1
6	☐	500.000	508.357	9069.51	0.0025	P	2.7
7	☐	1000.000	992.179	17551.60	0.0049	P	1.6
8	☐			11.11	0.0000	P	17.7

$$y = 4.9676\text{E-}006 * x + 5.7584\text{E-}007$$

$$R = 0.9998$$

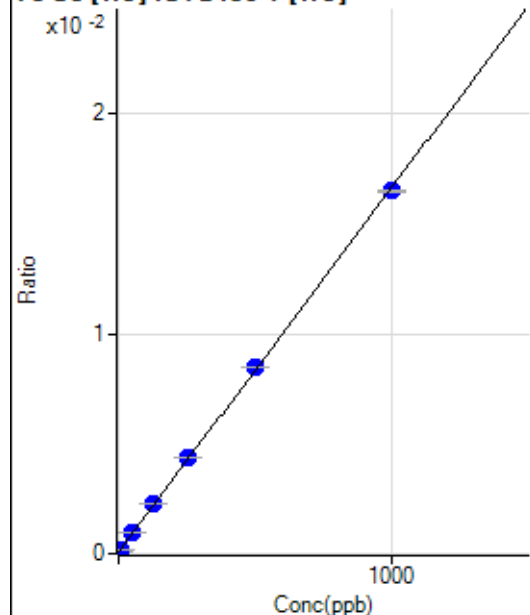
$$DL = 0.3012$$

$$BEC = 0.1159$$

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	266.67	0.0001	P	6.7
2	☐	5.000	5.360	608.04	0.0002	P	5.7
3	☐	50.000	51.844	3585.02	0.0009	P	1.5
4	☐	125.000	133.008	8512.97	0.0023	P	1.5
5	☐	250.000	260.049	16138.43	0.0044	P	0.3
6	☐	500.000	508.715	30528.22	0.0085	P	0.2
7	☐	1000.000	992.035	58791.10	0.0165	P	0.9
8	☐			287.66	0.0001	P	3.4

$$y = 1.6575\text{E-}005 * x + 6.8983\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.8394$$

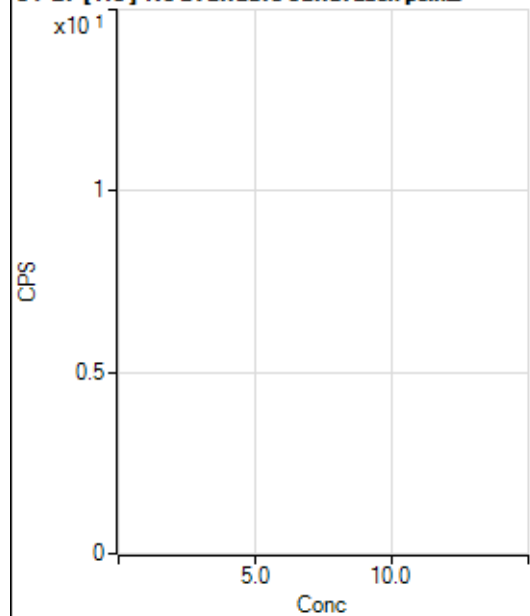
$$BEC = 4.162$$

Weight: <None>

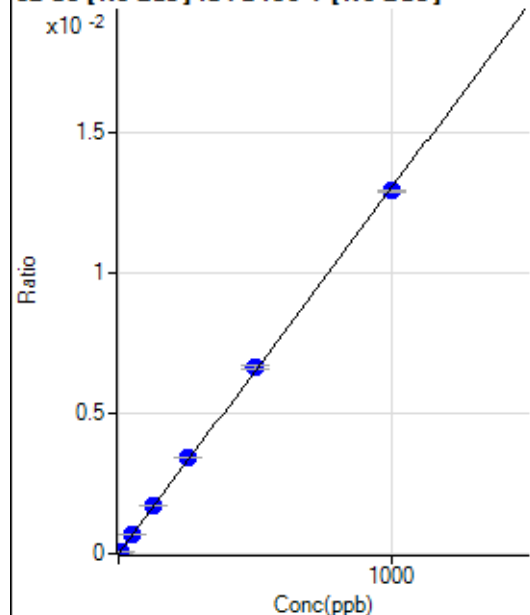
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16907.28		P	2.6
2	☐			16718.17		P	2.6
3	☐			16000.80		P	2.1
4	☐			15305.56		P	2.8
5	☐			14646.57		P	3.1
6	☐			14471.36		P	3.2
7	☐			14034.82		P	1.8
8	☐			14301.75		P	0.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			100.10		P	17.3
2	☐			80.08		P	12.5
3	☐			126.80		P	19.9
4	☐			60.06		P	44.1
5	☐			100.10		P	20.0
6	☐			110.11		P	18.2
7	☐			80.08		P	33.1
8	☐			150.16		P	17.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-70.55	0.0000	P	-129.
2	☐	5.000	5.753	1131.80	0.0001	P	10.1
3	☐	50.000	52.224	10826.65	0.0007	P	2.6
4	☐	125.000	130.991	27131.28	0.0017	P	0.4
5	☐	250.000	261.716	52896.11	0.0034	P	0.8
6	☐	500.000	507.960	100921.85	0.0066	P	2.1
7	☐	1000.000	992.227	193527.71	0.0130	P	0.7
8	☐			209.63	0.0000	P	45.6

$$y = 1.3057E-005 * x - 4.3837E-006$$

$$R = 0.9999$$

$$DL = 1.304$$

$$BEC = -0.3357$$

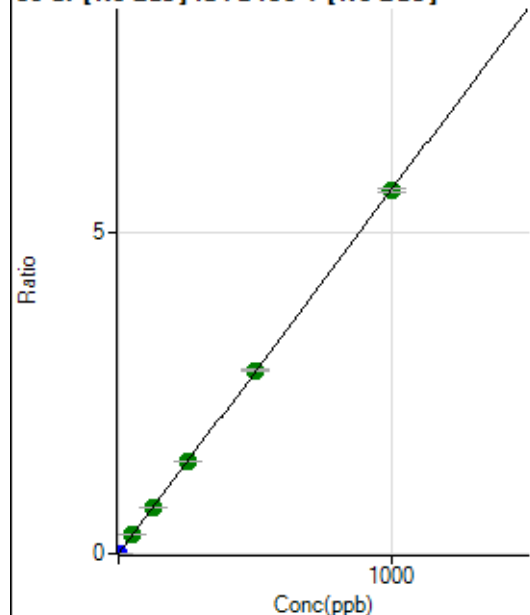
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5199.85		P	0.6
2	☐			5068.69		P	2.9
3	☐			5164.28		P	1.2
4	☐			5058.69		P	2.3
5	☐			4805.27		P	4.6
6	☐			4831.95		P	3.2
7	☐			4631.89		P	3.5
8	☐			4635.21		P	2.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8527.69	0.0005	P	0.2
2	☐	1.000	0.038	11902.30	0.0007	P	3.0
3	☐	50.000	51.259	4656804.49	0.2914	A	0.7
4	☐	125.000	125.770	11357434.28	0.7141	A	0.8
5	☐	250.000	252.540	22217228.28	1.4334	A	0.9
6	☐	500.000	504.061	43563742.29	2.8605	A	0.7
7	☐	1000.000	997.176	84554840.78	5.6584	A	0.9
8	☐			32297.14	0.0022	P	2.7

$$y = 0.0057 * x + 5.2734E-004$$

$$R = 1.0000$$

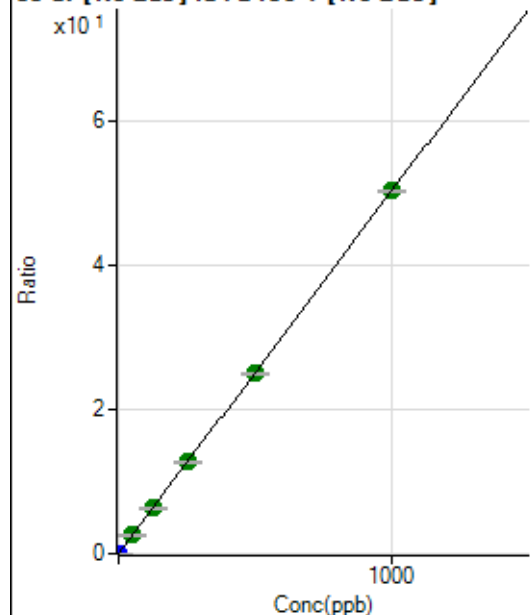
$$DL = 0.0006919$$

$$BEC = 0.09294$$

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	3019.85	0.0002	P	5.6
2	☐	1.000	0.038	33349.50	0.0021	P	3.1
3	☐	50.000	50.391	40480162.36	2.5328	A	0.8
4	☐	125.000	125.354	100196918.21	6.3003	A	1.2
5	☐	250.000	252.123	196403497.44	12.6716	A	1.6
6	☐	500.000	497.296	380621452.95	24.9936	A	0.8
7	☐	1000.000	1000.758	751615000.13	50.2970	A	0.3
8	☐			216452.72	0.0147	P	3.5

$$y = 0.0503 * x + 1.8671E-004$$

$$R = 1.0000$$

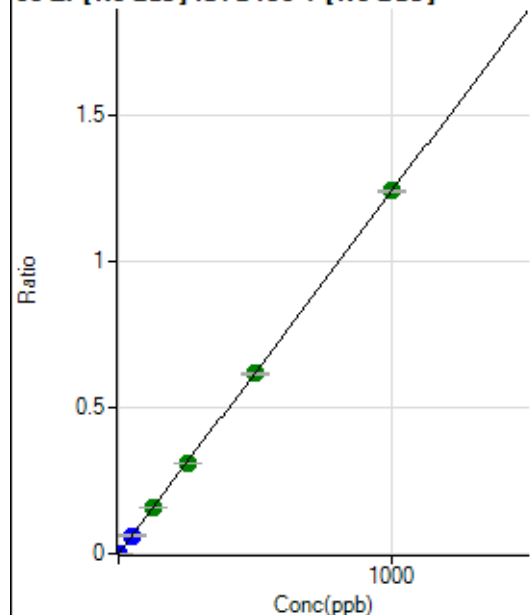
$$DL = 0.0006295$$

$$BEC = 0.003715$$

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	658.37	0.0000	P	18.4
2	☐	1.000	0.950	19468.87	0.0012	P	3.0
3	☐	50.000	50.388	997636.15	0.0624	P	0.6
4	☐	125.000	126.777	2496624.64	0.1570	A	1.6
5	☐	250.000	250.310	4803677.93	0.3099	A	0.5
6	☐	500.000	496.365	9358120.26	0.6145	A	0.9
7	☐	1000.000	1001.498	18528157.36	1.2399	A	0.4
8	☐			8319.23	0.0006	P	2.4

$$y = 0.0012 * x + 4.0688E-005$$

$$R = 1.0000$$

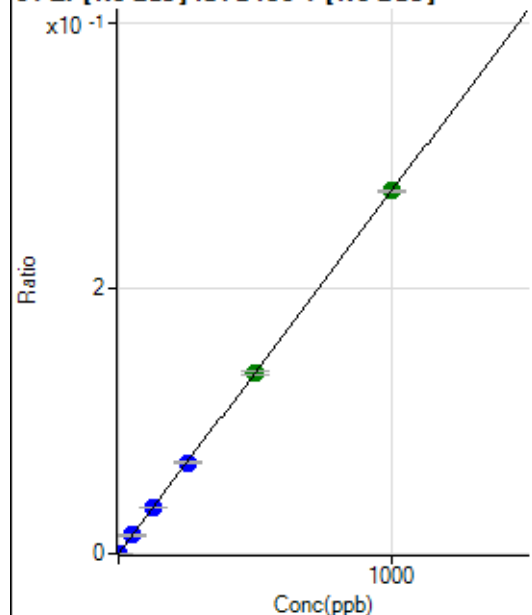
$$DL = 0.0181$$

$$BEC = 0.03287$$

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	122.23	0.0000	P	37.7
2	☐	1.000	0.963	4322.95	0.0003	P	3.8
3	☐	50.000	50.548	220543.08	0.0138	P	0.9
4	☐	125.000	126.239	547876.31	0.0345	P	1.5
5	☐	250.000	251.438	1063432.89	0.0686	P	0.9
6	☐	500.000	497.873	2068606.04	0.1358	A	1.5
7	☐	1000.000	1000.522	4079480.25	0.2730	A	0.4
8	☐			1855.72	0.0001	P	9.8

$$y = 2.7284E-004 * x + 7.5601E-006$$

$$R = 1.0000$$

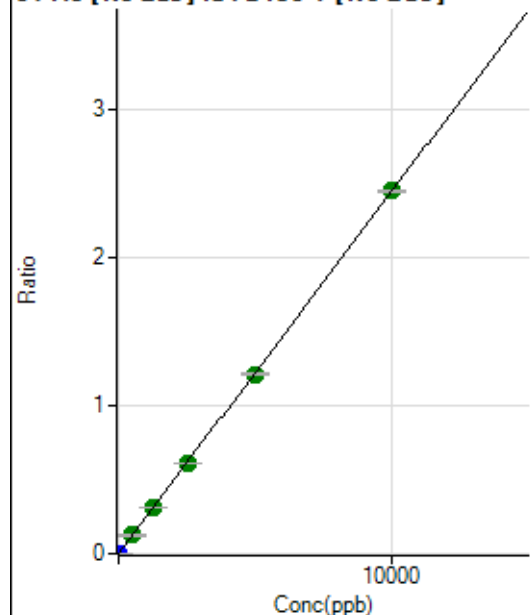
$$DL = 0.03133$$

$$BEC = 0.02771$$

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	266.68	0.0000	P	11.8
2	☐	5.000	5.701	22528.94	0.0014	P	1.5
3	☐	500.000	505.449	1972171.76	0.1234	A	1.8
4	☐	1250.000	1252.847	4864156.36	0.3058	A	0.7
5	☐	2500.000	2504.836	9477543.61	0.6115	A	0.9
6	☐	5000.000	4957.362	18427107.88	1.2101	A	1.7
7	☐	10000.000	10019.481	36549772.00	2.4459	A	0.8
8	☐			12352.75	0.0008	P	0.9

$$y = 2.4411\text{E-}004 * x + 1.6497\text{E-}005$$

$$R = 1.0000$$

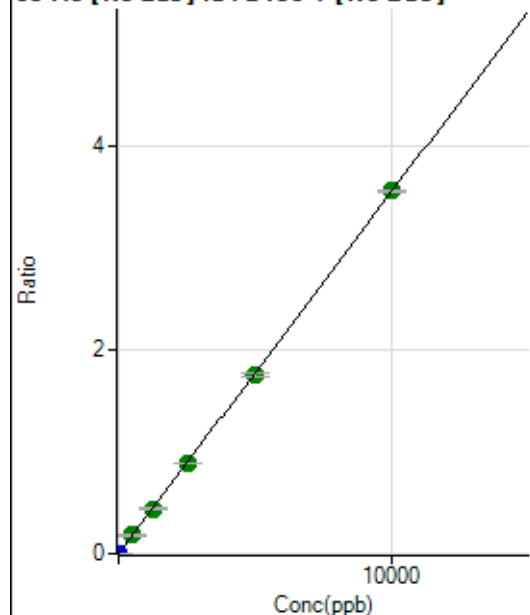
$$DL = 0.02384$$

$$BEC = 0.06758$$

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	133.34	0.0000	P	29.0
2	☐	5.000	4.896	27944.02	0.0017	P	3.7
3	☐	500.000	505.776	2870386.57	0.1796	A	2.5
4	☐	1250.000	1245.759	7035038.96	0.4423	A	0.7
5	☐	2500.000	2502.794	13774426.70	0.8887	A	1.1
6	☐	5000.000	4938.535	26701293.13	1.7536	A	1.9
7	☐	10000.000	10030.275	53221896.33	3.5615	A	0.6
8	☐			17107.63	0.0012	P	3.9

$$y = 3.5508\text{E-}004 * x + 8.2527\text{E-}006$$

$$R = 1.0000$$

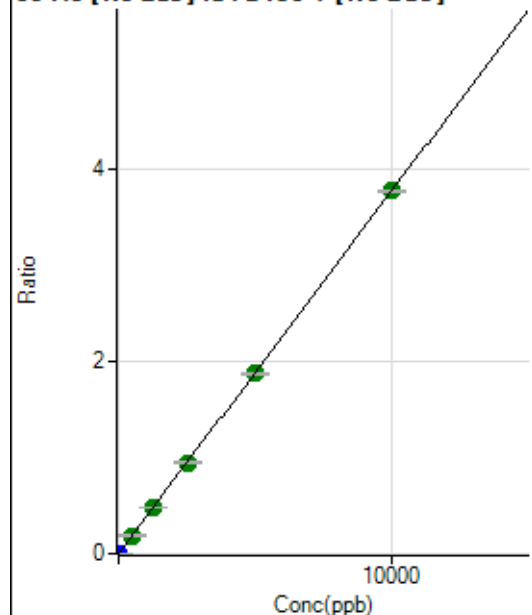
$$DL = 0.02021$$

$$BEC = 0.02324$$

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	316.68	0.0000	P	17.5
2	☐	5.000	5.087	31061.26	0.0019	P	0.6
3	☐	500.000	503.425	3039531.08	0.1902	A	1.4
4	☐	1250.000	1257.699	7556213.02	0.4751	A	0.7
5	☐	2500.000	2510.201	14697373.07	0.9482	A	1.6
6	☐	5000.000	4978.580	28638313.49	1.8807	A	1.2
7	☐	10000.000	10007.026	56488913.07	3.7801	A	0.4
8	☐			23291.28	0.0016	P	1.1

$$y = 3.7775E-004 * x + 1.9588E-005$$

$$R = 1.0000$$

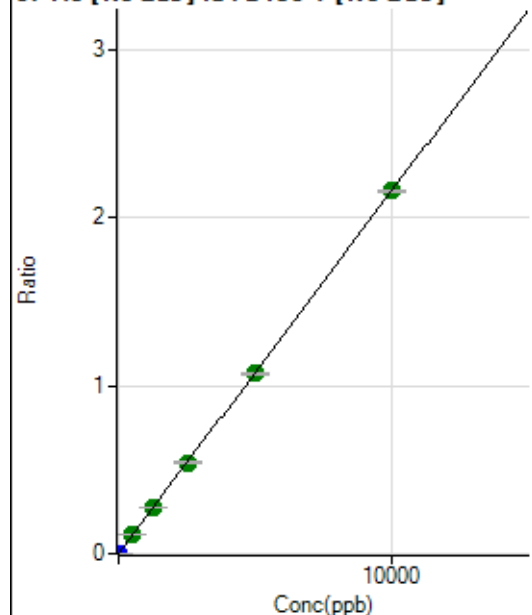
$$DL = 0.02727$$

$$BEC = 0.05186$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	57.6
2	☐	5.000	4.912	17043.65	0.0011	P	2.0
3	☐	500.000	507.588	1751808.22	0.1096	A	0.7
4	☐	1250.000	1256.188	4314085.30	0.2713	A	0.5
5	☐	2500.000	2513.288	8411609.04	0.5427	A	1.2
6	☐	5000.000	4979.029	16372444.11	1.0751	A	0.9
7	☐	10000.000	10006.011	32286787.18	2.1606	A	0.6
8	☐			10114.88	0.0007	P	3.9

$$y = 2.1593E-004 * x + 4.6310E-006$$

$$R = 1.0000$$

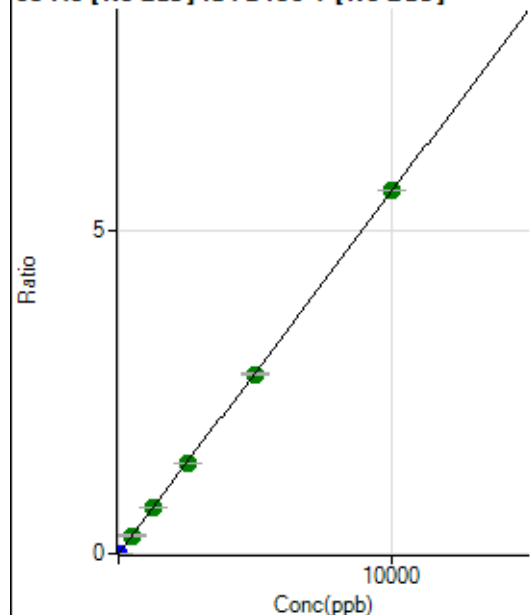
$$DL = 0.03703$$

$$BEC = 0.02145$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	233.34	0.0000	P	25.4
2	☐	5.000	4.920	44434.68	0.0028	P	1.4
3	☐	500.000	504.309	4526221.63	0.2832	A	0.6
4	☐	1250.000	1261.641	11267252.60	0.7085	A	0.7
5	☐	2500.000	2508.156	21829805.17	1.4084	A	1.1
6	☐	5000.000	4957.254	42388953.03	2.7836	A	1.1
7	☐	10000.000	10017.663	84060389.38	5.6252	A	0.2
8	☐			25366.98	0.0017	P	4.3

$$y = 5.6152\text{E-}004 * x + 1.4442\text{E-}005$$

$$R = 1.0000$$

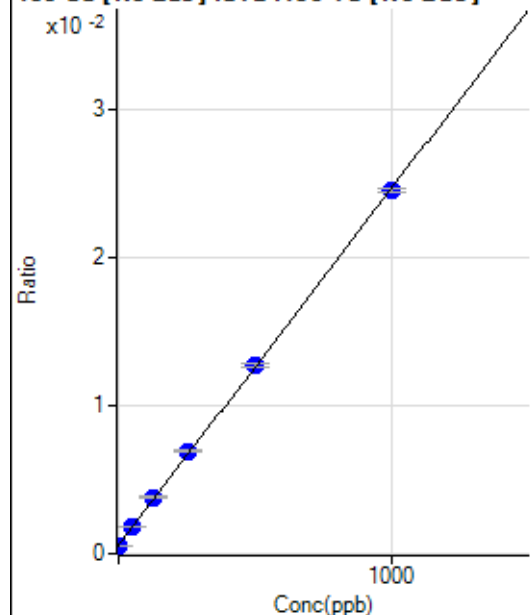
$$DL = 0.0196$$

$$BEC = 0.02572$$

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	7207.55	0.0006	P	0.5
2	☐	1.000	-0.580	7126.94	0.0006	P	4.2
3	☐	50.000	52.733	23427.72	0.0018	P	3.4
4	☐	125.000	133.603	48701.91	0.0038	P	2.5
5	☐	250.000	264.081	87049.66	0.0069	P	1.0
6	☐	500.000	504.301	160045.13	0.0127	P	1.4
7	☐	1000.000	993.119	304361.80	0.0245	P	1.0
8	☐			6871.25	0.0006	P	3.2

$$y = 2.4052\text{E-}005 * x + 5.7142\text{E-}004$$

$$R = 0.9998$$

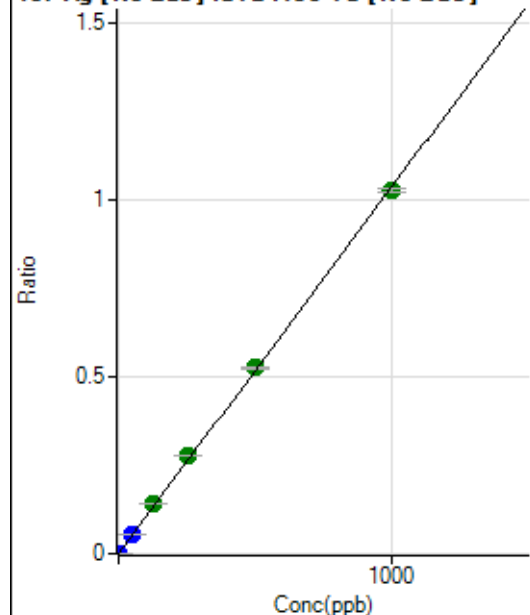
$$DL = 0.3703$$

$$BEC = 23.76$$

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	83.33	0.0000	P	35.7
2	☐	1.000	0.866	11549.38	0.0009	P	10.6
3	☐	50.000	54.143	713620.86	0.0560	P	2.0
4	☐	125.000	134.699	1793531.87	0.1394	A	0.9
5	☐	250.000	267.659	3482197.60	0.2769	A	1.0
6	☐	500.000	508.025	6623586.22	0.5256	A	0.9
7	☐	1000.000	990.153	12748845.42	1.0245	A	1.0
8	☐			5465.06	0.0005	P	6.2

$$y = 0.0010 * x + 6.6069E-006$$

$$R = 0.9998$$

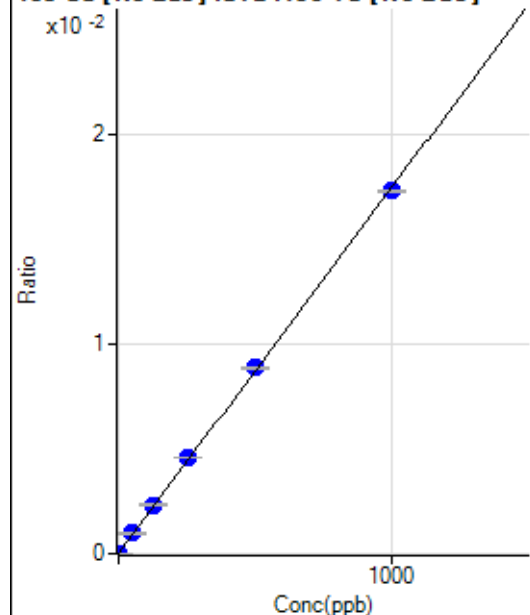
$$DL = 0.006848$$

$$BEC = 0.006386$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	113.89	0.0000	P	9.9
2	☐	1.000	0.970	331.95	0.0000	P	1.8
3	☐	50.000	55.001	12355.35	0.0010	P	1.6
4	☐	125.000	132.752	29968.55	0.0023	P	1.5
5	☐	250.000	262.449	57779.75	0.0046	P	0.6
6	☐	500.000	507.904	111947.18	0.0089	P	0.8
7	☐	1000.000	991.717	215760.21	0.0173	P	0.3
8	☐			206.95	0.0000	P	5.8

$$y = 1.7473E-005 * x + 9.0220E-006$$

$$R = 0.9999$$

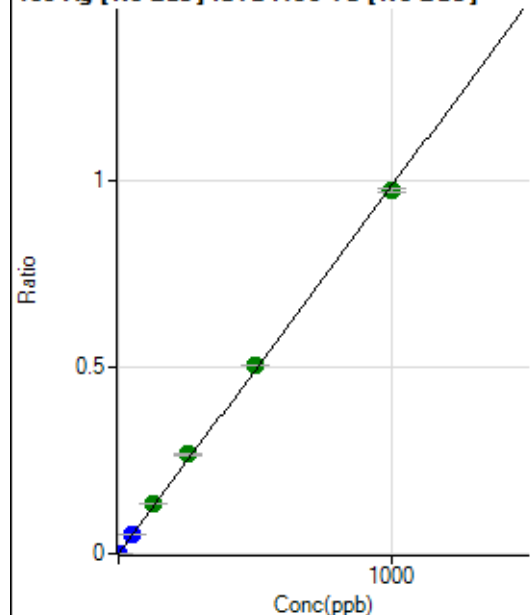
$$DL = 0.1536$$

$$BEC = 0.5163$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0000	P	62.0
2	☐	1.000	0.848	10732.04	0.0008	P	10.0
3	☐	50.000	54.491	683972.06	0.0537	P	0.9
4	☐	125.000	134.765	1709034.17	0.1328	A	1.1
5	☐	250.000	269.877	3344225.77	0.2660	A	0.5
6	☐	500.000	512.270	6361336.90	0.5048	A	0.2
7	☐	1000.000	987.451	12109807.13	0.9731	A	1.0
8	☐			5298.35	0.0004	P	1.9

$$y = 9.8544\text{E-}004 * x + 3.5470\text{E-}006$$

$$R = 0.9996$$

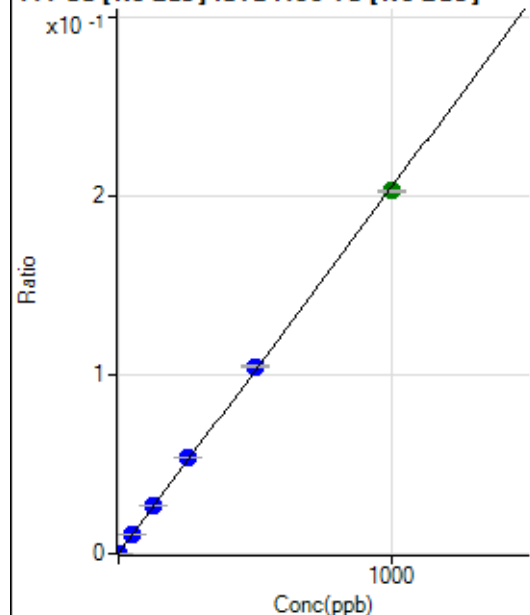
$$DL = 0.006692$$

$$BEC = 0.003599$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1404.84	0.0001	P	0.6
2	☐	1.000	1.058	4196.15	0.0003	P	1.8
3	☐	50.000	53.659	141436.84	0.0111	P	1.0
4	☐	125.000	132.245	350058.65	0.0272	P	1.7
5	☐	250.000	263.757	680831.42	0.0541	P	0.5
6	☐	500.000	510.438	1319091.41	0.1047	P	0.7
7	☐	1000.000	990.253	2525993.24	0.2030	A	0.5
8	☐			2175.27	0.0002	P	2.4

$$y = 2.0486\text{E-}004 * x + 1.1138\text{E-}004$$

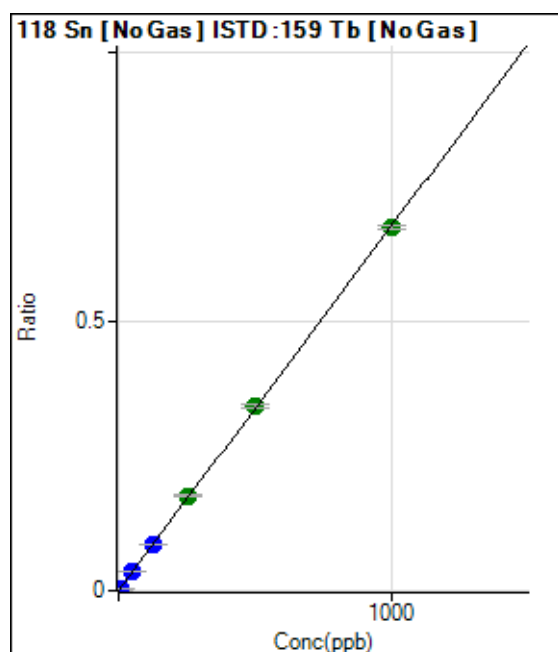
$$R = 0.9998$$

$$DL = 0.009814$$

$$BEC = 0.5437$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2314.13	0.0002	P	0.9
2	☐	5.000	4.748	43502.48	0.0034	P	1.3
3	☐	50.000	51.714	449002.56	0.0353	P	0.5
4	☐	125.000	127.142	1111903.56	0.0864	P	1.3
5	☐	250.000	260.453	2223221.92	0.1768	A	1.5
6	☐	500.000	505.233	4319674.62	0.3428	A	1.3
7	☐	1000.000	994.418	8394488.21	0.6745	A	1.0
8	☐			9205.99	0.0008	P	3.3

$$y = 6.7815\text{E-}004 * x + 1.8346\text{E-}004$$

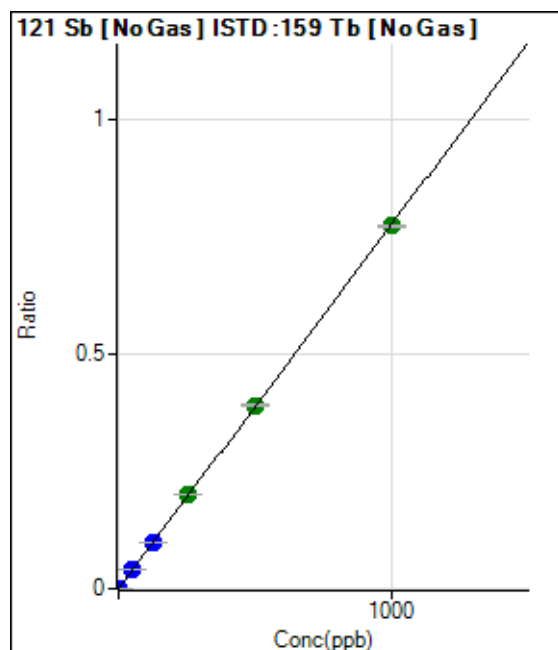
$$R = 0.9999$$

$$DL = 0.007517$$

$$BEC = 0.2705$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	161.11	0.0000	P	7.1
2	☐	2.000	1.977	19794.64	0.0015	P	0.8
3	☐	50.000	51.195	506718.14	0.0398	P	1.2
4	☐	125.000	126.326	1263002.57	0.0981	P	1.6
5	☐	250.000	259.645	2536375.21	0.2017	A	1.1
6	☐	500.000	502.427	4918508.22	0.3903	A	0.9
7	☐	1000.000	996.150	9630497.18	0.7739	A	0.7
8	☐			9839.72	0.0008	P	4.8

$$y = 7.7685\text{E-}004 * x + 1.2781\text{E-}005$$

$$R = 0.9999$$

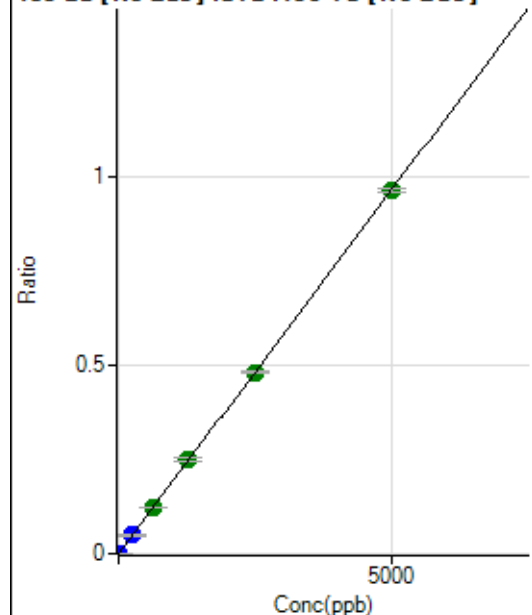
$$DL = 0.003502$$

$$BEC = 0.01645$$

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	102.78	0.0000	P	7.9
2	☐	10.000	9.446	23361.27	0.0018	P	3.1
3	☐	250.000	251.893	618036.03	0.0485	P	1.2
4	☐	625.000	636.877	1578669.85	0.1227	A	1.1
5	☐	1250.000	1295.837	3138364.26	0.2496	A	2.5
6	☐	2500.000	2497.609	6062123.92	0.4811	A	0.3
7	☐	5000.000	4988.158	11956471.45	0.9608	A	1.2
8	☐			5198.32	0.0004	P	3.4

$$y = 1.9261\text{E-}004 * x + 8.1426\text{E-}006$$

$$R = 1.0000$$

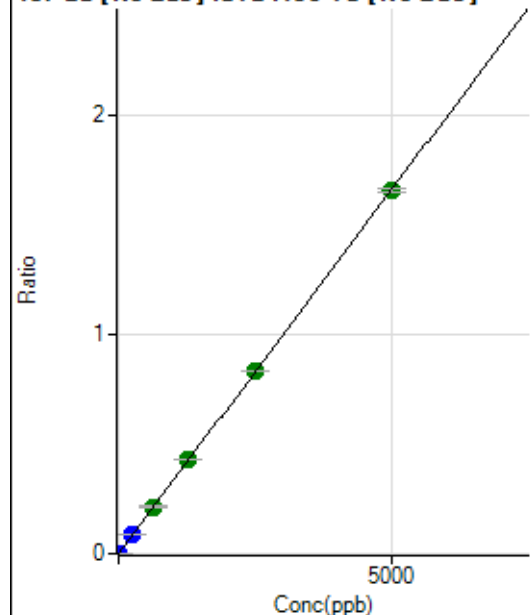
$$DL = 0.01$$

$$BEC = 0.04228$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	172.23	0.0000	P	28.8
2	☐	10.000	9.519	40550.14	0.0032	P	2.2
3	☐	250.000	254.527	1075975.04	0.0845	P	0.7
4	☐	625.000	642.708	2744738.80	0.2133	A	2.1
5	☐	1250.000	1289.494	5381001.86	0.4279	A	0.6
6	☐	2500.000	2505.107	10476122.02	0.8314	A	0.2
7	☐	5000.000	4985.134	20587803.07	1.6544	A	0.9
8	☐			8686.25	0.0007	P	2.5

$$y = 3.3186\text{E-}004 * x + 1.3684\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.03562$$

$$BEC = 0.04124$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.34		P	86.6
2	☐			6.67		P	100.0
3	☐			62.22		P	62.8
4	☐			128.89		P	19.6
5	☐			240.01		P	10.0
6	☐			448.91		P	8.4
7	☐			831.15		P	7.3
8	☐			142.23		P	13.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			4.44		P	114.6
3	☐			16.67		P	60.0
4	☐			36.66		P	31.5
5	☐			44.44		P	4.3
6	☐			58.89		P	28.5
7	☐			144.45		P	2.7
8	☐			68.89		P	35.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	25.0
2	☐			47.22		P	66.8
3	☐			50.00		P	16.7
4	☐			83.34		P	20.0
5	☐			127.78		P	26.4
6	☐			313.90		P	13.1
7	☐			452.80		P	19.9
8	☐			1211.20		P	5.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			7.78		P	65.5
2	☐			12.22		P	15.7
3	☐			41.11		P	20.4
4	☐			87.78		P	23.2
5	☐			107.78		P	6.4
6	☐			236.67		P	6.1
7	☐			446.68		P	10.5
8	☐			718.92		P	6.7

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

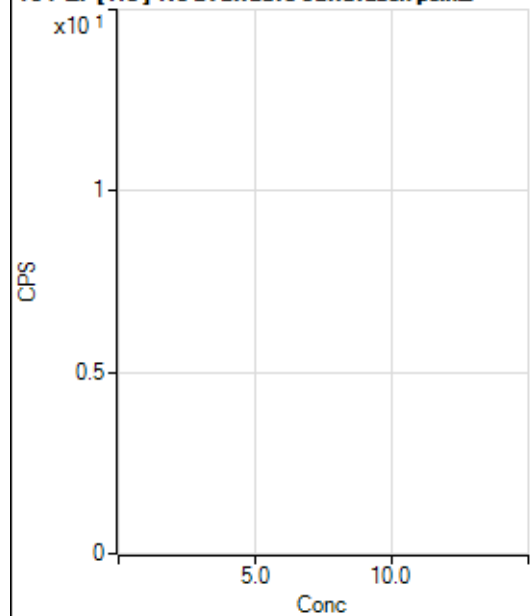
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			100.00		P	8.3
2	☐			116.67		P	24.7
3	☐			119.45		P	24.5
4	☐			113.89		P	8.4
5	☐			150.01		P	30.9
6	☐			191.67		P	19.0
7	☐			205.56		P	13.0
8	☐			927.83		P	6.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			278.90		P	13.9
2	☐			256.67		P	9.8
3	☐			277.78		P	11.4
4	☐			286.67		P	4.2
5	☐			323.34		P	5.2
6	☐			324.45		P	6.2
7	☐			403.34		P	3.0
8	☐			730.03		P	2.3

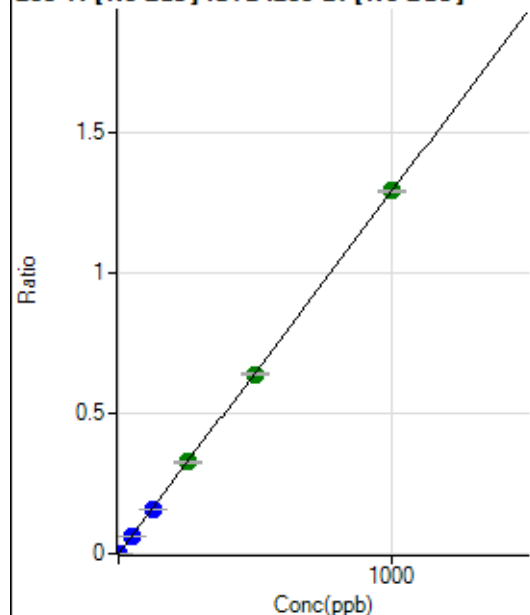
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			83.33		P	52.0
2	☐			100.00		P	36.3
3	☐			86.11		P	31.1
4	☐			69.45		P	56.7
5	☐			105.56		P	22.8
6	☐			122.23		P	27.6
7	☐			116.67		P	39.8
8	☐			136.11		P	19.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			45.56		P	4.2
2	☐			58.89		P	14.2
3	☐			56.67		P	29.4
4	☐			58.89		P	13.1
5	☐			60.00		P	28.9
6	☐			57.78		P	31.8
7	☐			90.00		P	32.9
8	☐			82.22		P	22.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1161.20	0.0001	P	5.8
2	☐	1.000	0.922	10849.01	0.0013	P	4.2
3	☐	50.000	48.035	510793.94	0.0621	P	0.9
4	☐	125.000	120.615	1276082.94	0.1557	P	1.7
5	☐	250.000	252.994	2664093.09	0.3264	A	1.5
6	☐	500.000	495.706	5178390.00	0.6393	A	0.7
7	☐	1000.000	1002.045	10149544.67	1.2922	A	0.3
8	☐			5290.05	0.0008	P	7.9

$$y = 0.0013 * x + 1.4146E-004$$

$$R = 1.0000$$

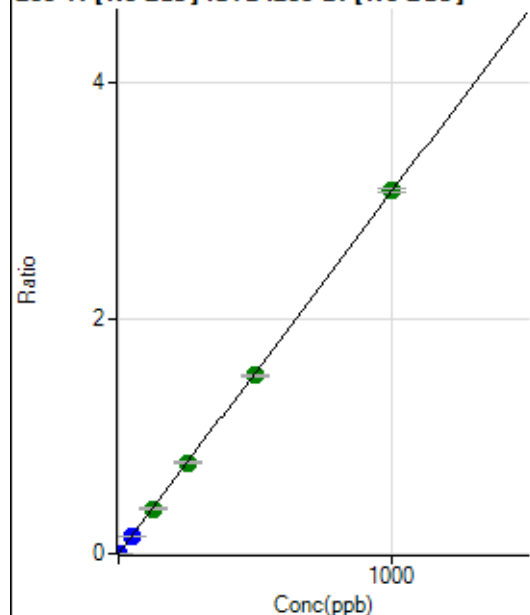
$$DL = 0.01914$$

$$BEC = 0.1097$$

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	2678.12	0.0003	P	11.2
2	☐	1.000	0.904	25290.73	0.0031	P	0.5
3	☐	50.000	47.789	1210007.89	0.1471	P	1.0
4	☐	125.000	124.822	3144756.11	0.3836	A	0.6
5	☐	250.000	250.523	6281862.55	0.7695	A	1.8
6	☐	500.000	493.678	12279897.41	1.5161	A	1.0
7	☐	1000.000	1003.163	24194793.08	3.0803	A	1.0
8	☐			13251.25	0.0019	P	4.4

$$y = 0.0031 * x + 3.2659E-004$$

$$R = 1.0000$$

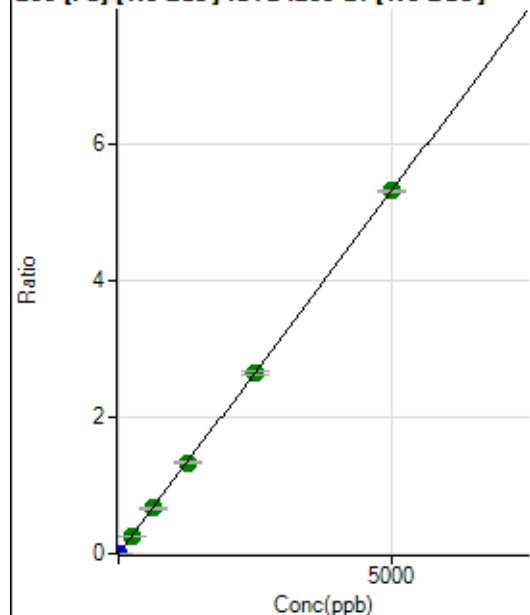
$$DL = 0.03573$$

$$BEC = 0.1064$$

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	448.16	0.0001	P	8.9
2	☐	1.000	0.893	8176.70	0.0010	P	4.6
3	☐	250.000	248.924	2177592.45	0.2646	A	0.4
4	☐	625.000	623.400	5433545.61	0.6627	A	0.2
5	☐	1250.000	1258.508	10920537.28	1.3378	A	1.1
6	☐	2500.000	2495.431	21484252.56	2.6526	A	1.8
7	☐	5000.000	5000.411	41748882.88	5.3152	A	0.4
8	☐			10159.51	0.0015	P	2.5

$$y = 0.0011 * x + 5.4636E-005$$

$$R = 1.0000$$

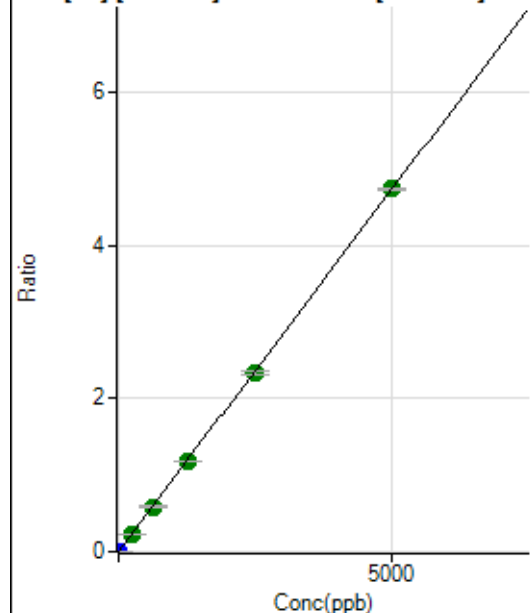
$$DL = 0.01376$$

$$BEC = 0.0514$$

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	394.46	0.0000	P	13.7
2	☐	1.000	0.895	7302.08	0.0009	P	4.6
3	☐	250.000	246.743	1922431.93	0.2336	A	0.6
4	☐	625.000	621.416	4823494.84	0.5883	A	1.0
5	☐	1250.000	1247.721	9642565.84	1.1812	A	1.6
6	☐	2500.000	2478.102	19001186.07	2.3460	A	1.7
7	☐	5000.000	5012.130	37269021.67	4.7449	A	0.7
8	☐			8912.33	0.0013	P	3.8

$$y = 9.4668E-004 * x + 4.8066E-005$$

$$R = 1.0000$$

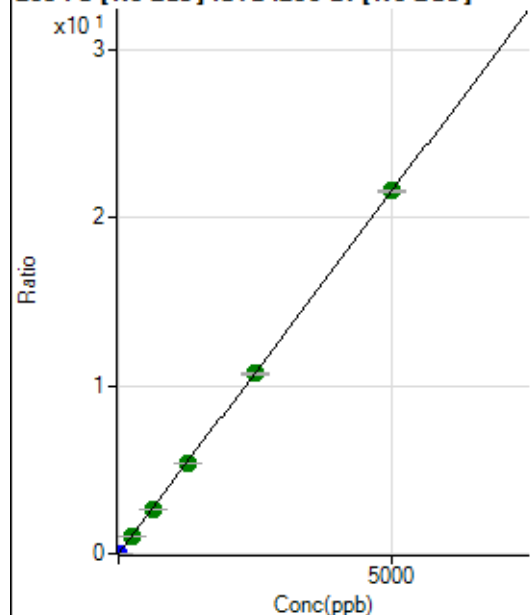
$$DL = 0.02092$$

$$BEC = 0.05077$$

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	1792.67	0.0002	P	3.0
2	☐	1.000	0.884	32869.73	0.0040	P	0.7
3	☐	250.000	247.285	8778154.75	1.0668	A	0.5
4	☐	625.000	619.850	21922196.73	2.6738	A	0.5
5	☐	1250.000	1247.544	43927485.12	5.3813	A	0.9
6	☐	2500.000	2487.088	86889431.80	10.7278	A	1.6
7	☐	5000.000	5007.849	169665080.64	21.6006	A	0.2
8	☐			40344.30	0.0058	P	1.7

$$y = 0.0043 * x + 2.1844E-004$$

$$R = 1.0000$$

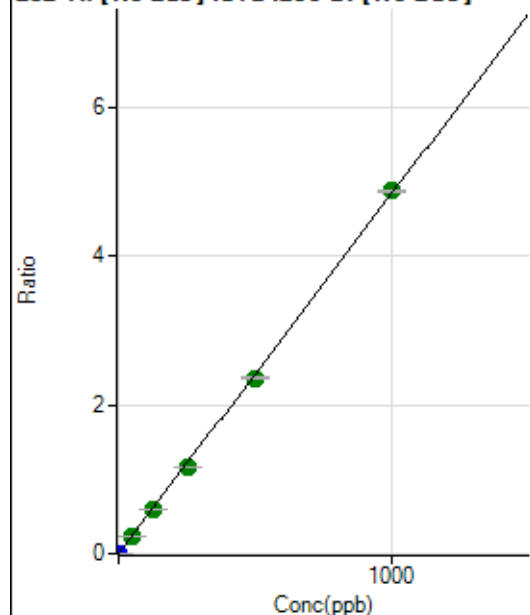
$$DL = 0.004513$$

$$BEC = 0.05064$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	477.80	0.0001	P	6.3
2	☐	1.000	0.817	32652.98	0.0040	P	0.9
3	☐	50.000	46.924	1866983.61	0.2269	A	1.4
4	☐	125.000	120.932	4794035.70	0.5847	A	0.7
5	☐	250.000	242.504	9570220.58	1.1723	A	0.5
6	☐	500.000	487.998	19108571.72	2.3591	A	1.1
7	☐	1000.000	1008.538	38294380.95	4.8754	A	0.5
8	☐			3498.68	0.0005	P	13.2

$$y = 0.0048 * x + 5.8199E-005$$

$$R = 0.9999$$

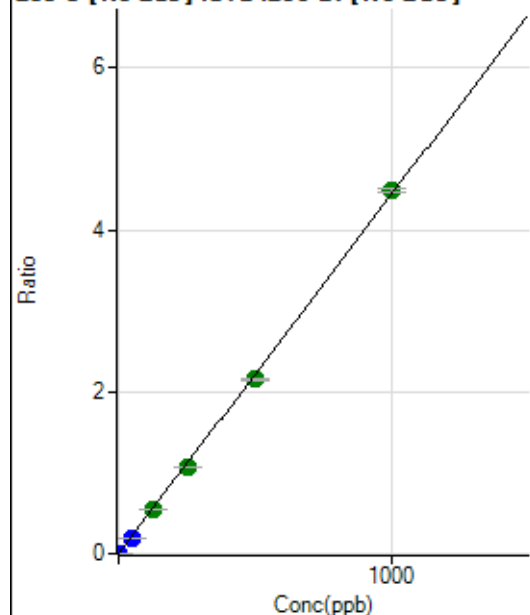
$$DL = 0.00227$$

$$BEC = 0.01204$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	125.00	0.0000	P	19.7
2	☐	1.000	0.869	31540.71	0.0039	P	3.0
3	☐	50.000	44.539	1625328.40	0.1975	P	1.4
4	☐	125.000	121.244	4408117.07	0.5377	A	0.7
5	☐	250.000	242.303	8771534.49	1.0745	A	0.6
6	☐	500.000	485.241	17428805.25	2.1518	A	1.6
7	☐	1000.000	1010.047	35180517.80	4.4791	A	1.2
8	☐			3528.35	0.0005	P	10.2

$$y = 0.0044 * x + 1.5230E-005$$

$$R = 0.9998$$

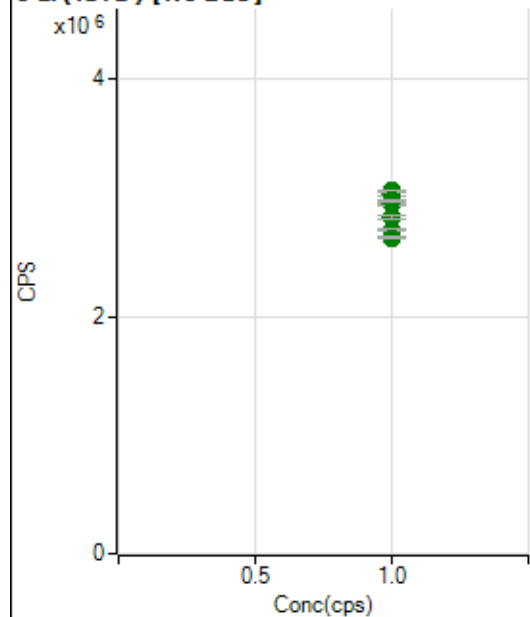
$$DL = 0.002032$$

$$BEC = 0.003434$$

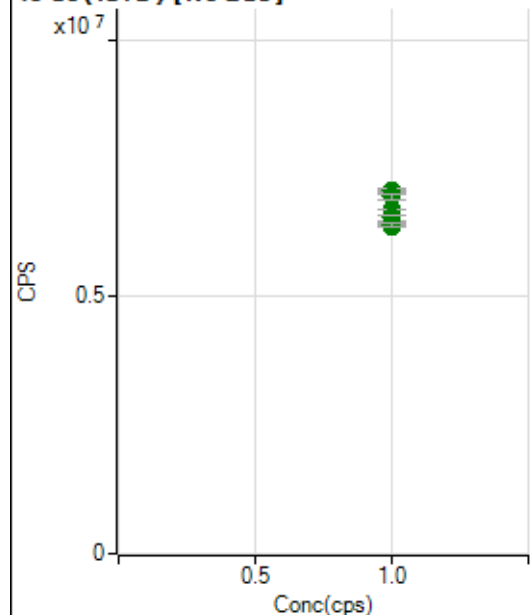
Weight: <None>

Min Conc: 0

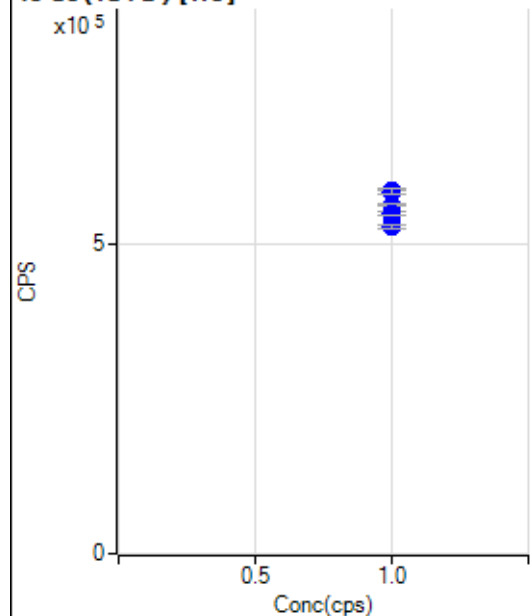
6 Li (ISTD) [No Gas]



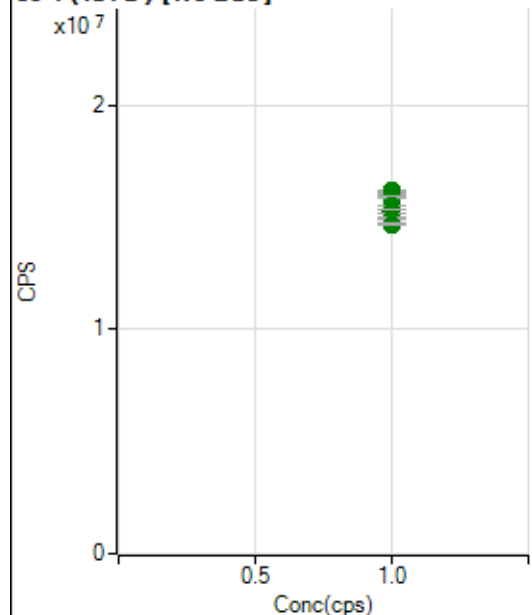
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2975138.46		A	1.1
2	☐	1.000		2959553.22		A	1.0
3	☐	1.000		3035697.59		A	1.1
4	☐	1.000		3061089.75		A	0.5
5	☐	1.000		2978388.43		A	0.8
6	☐	1.000		2841245.62		A	1.3
7	☐	1.000		2729909.23		A	0.6
8	☐	1.000		2666361.02		A	0.8

45 Sc (ISTD) [No Gas]

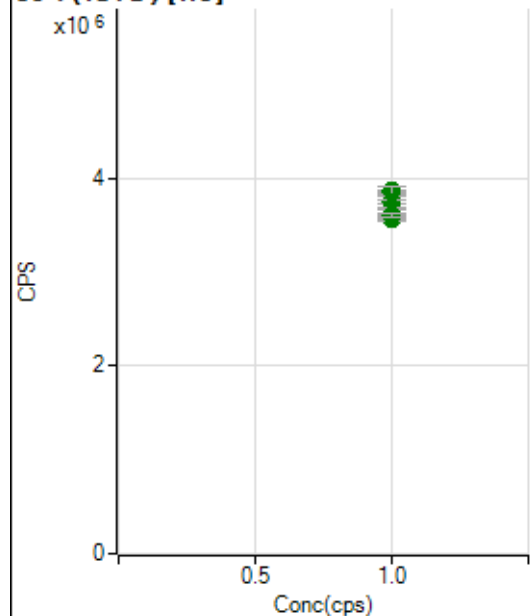
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7007723.99		A	0.8
2	☐	1.000		7061350.73		A	0.5
3	☐	1.000		7058090.24		A	1.3
4	☐	1.000		6943250.11		A	1.2
5	☐	1.000		6696926.15		A	0.4
6	☐	1.000		6534349.69		A	1.5
7	☐	1.000		6375229.97		A	0.7
8	☐	1.000		6405346.16		A	1.0

45 Sc (ISTD) [He]

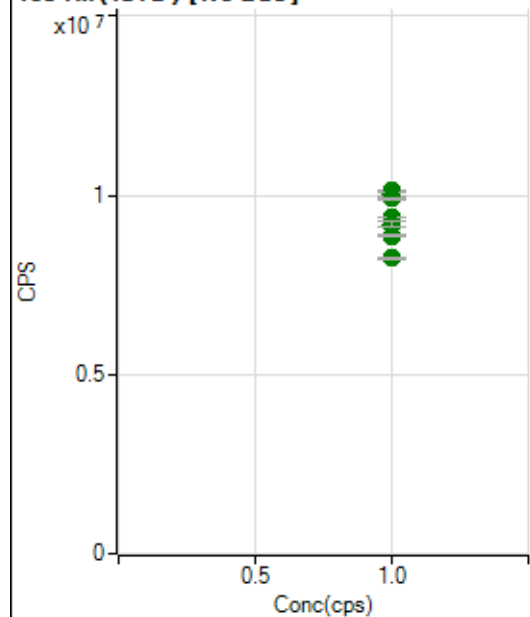
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		586414.57		P	1.4
2	☐	1.000		586562.66		P	0.1
3	☐	1.000		584794.17		P	1.5
4	☐	1.000		563728.25		P	0.9
5	☐	1.000		549403.31		P	1.0
6	☐	1.000		531027.65		P	0.2
7	☐	1.000		528389.27		P	1.2
8	☐	1.000		546915.12		P	0.4

89 Y (ISTD) [No Gas]

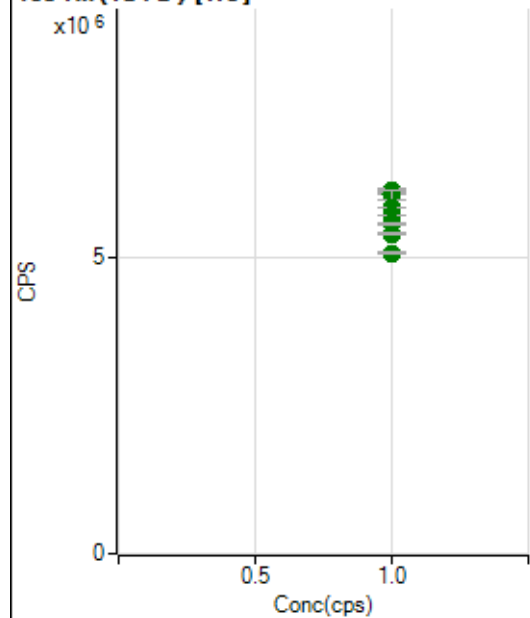
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16171083.92		A	0.6
2	☐	1.000		16000532.12		A	0.8
3	☐	1.000		15983067.40		A	0.9
4	☐	1.000		15904372.40		A	0.7
5	☐	1.000		15499620.74		A	0.1
6	☐	1.000		15229159.77		A	1.2
7	☐	1.000		14943543.53		A	0.3
8	☐	1.000		14694052.14		A	0.6

89 Y (ISTD) [He]

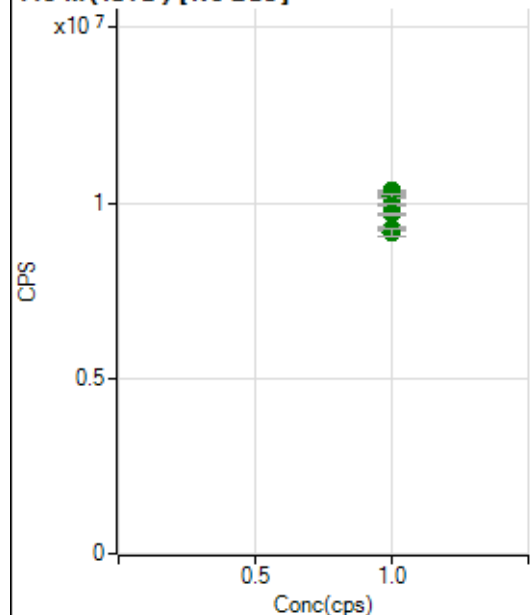
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3865916.05		A	0.6
2	☐	1.000		3852684.25		A	0.7
3	☐	1.000		3862519.77		A	2.3
4	☐	1.000		3744438.94		A	1.2
5	☐	1.000		3685115.92		A	0.5
6	☐	1.000		3591102.38		A	0.8
7	☐	1.000		3560443.66		A	0.7
8	☐	1.000		3609045.40		A	1.0

103 Rh (ISTD) [No Gas]

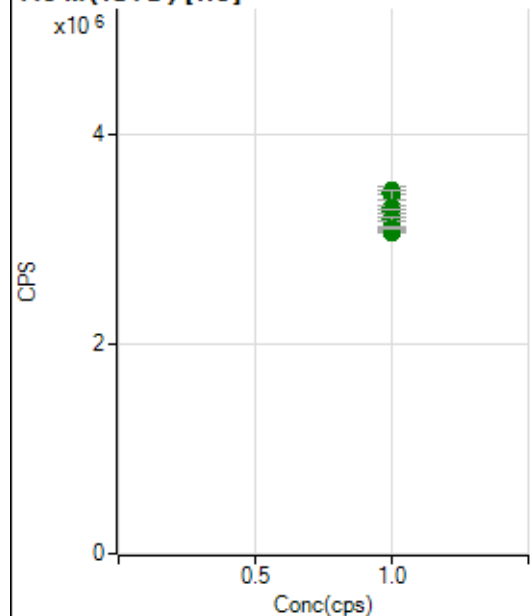
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10119224.85		A	0.5
2	☐	1.000		10039886.31		A	0.8
3	☐	1.000		9908357.21		A	0.6
4	☐	1.000		9906696.31		A	0.2
5	☐	1.000		9388586.60		A	0.3
6	☐	1.000		9179239.72		A	1.6
7	☐	1.000		8864014.59		A	0.8
8	☐	1.000		8245424.67		A	0.7

103 Rh (ISTD) [He]

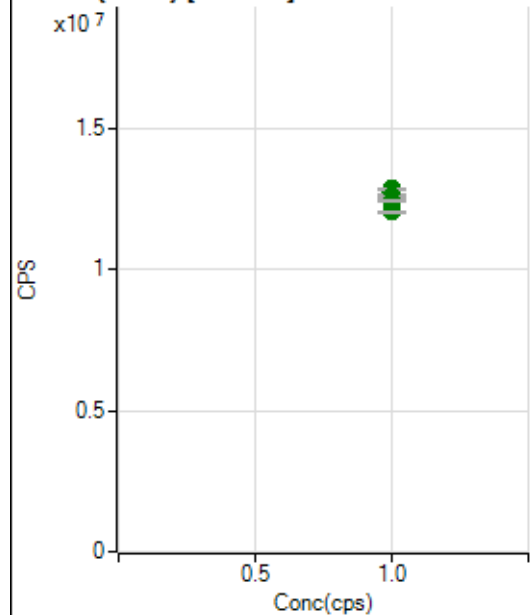
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6123784.01		A	1.9
2	☐	1.000		6081886.44		A	0.8
3	☐	1.000		6060306.09		A	2.6
4	☐	1.000		5843169.29		A	0.3
5	☐	1.000		5713190.05		A	0.5
6	☐	1.000		5572028.74		A	0.3
7	☐	1.000		5398929.78		A	0.6
8	☐	1.000		5072446.63		A	0.5

115 In (ISTD) [No Gas]

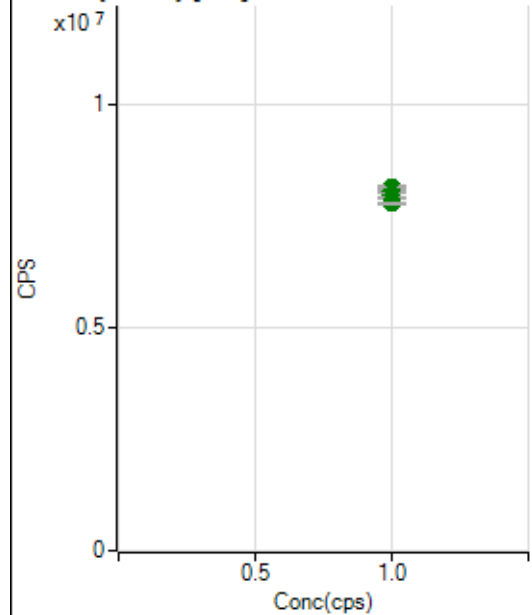
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10339080.89		A	0.8
2	☐	1.000		10298671.96		A	1.1
3	☐	1.000		10222668.24		A	1.1
4	☐	1.000		10198256.31		A	1.0
5	☐	1.000		9945152.23		A	0.3
6	☐	1.000		9686012.49		A	0.6
7	☐	1.000		9275692.20		A	1.1
8	☐	1.000		9144061.90		A	2.2

115 In (ISTD) [He]

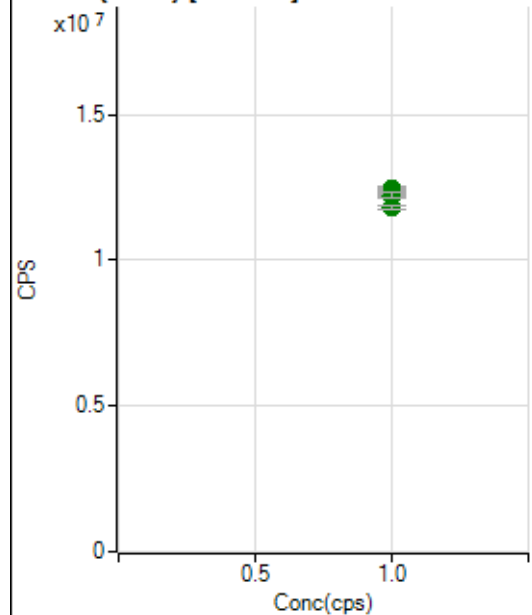
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3461368.67		A	2.0
2	☐	1.000		3446727.94		A	1.3
3	☐	1.000		3426244.58		A	2.5
4	☐	1.000		3304925.41		A	0.9
5	☐	1.000		3264976.80		A	0.9
6	☐	1.000		3193386.70		A	0.7
7	☐	1.000		3067980.05		A	0.6
8	☐	1.000		3107751.01		A	0.8

159 Tb (ISTD) [No Gas]

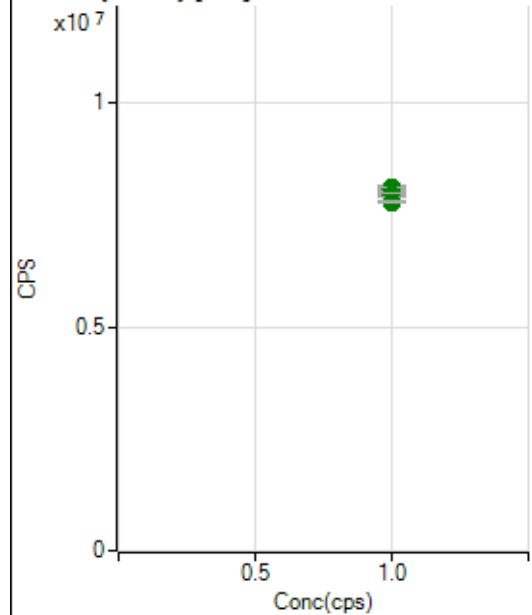
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12612673.42		A	1.6
2	☐	1.000		12783732.03		A	1.1
3	☐	1.000		12736789.39		A	0.9
4	☐	1.000		12869186.20		A	0.7
5	☐	1.000		12574512.17		A	0.7
6	☐	1.000		12601344.53		A	0.4
7	☐	1.000		12444644.54		A	0.3
8	☐	1.000		12039931.21		A	0.8

159 Tb (ISTD) [He]

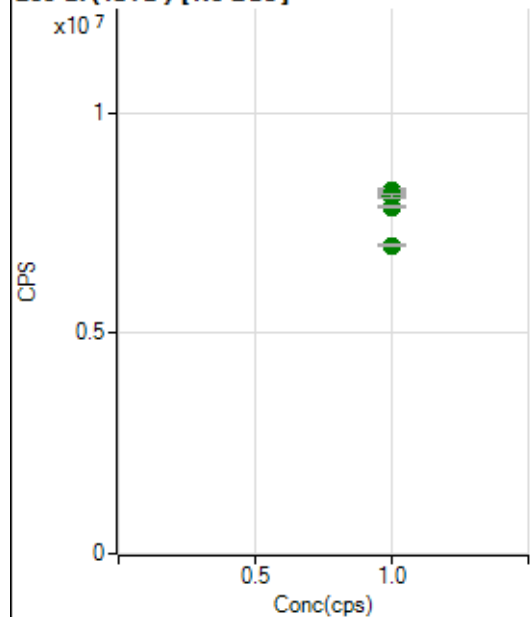
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8133276.20		A	0.4
2	☐	1.000		8123781.34		A	0.1
3	☐	1.000		8142883.77		A	1.4
4	☐	1.000		8056634.67		A	0.2
5	☐	1.000		8088111.27		A	1.6
6	☐	1.000		7986634.12		A	1.0
7	☐	1.000		7907457.80		A	0.5
8	☐	1.000		7795233.91		A	0.6

165 Ho (ISTD) [No Gas]

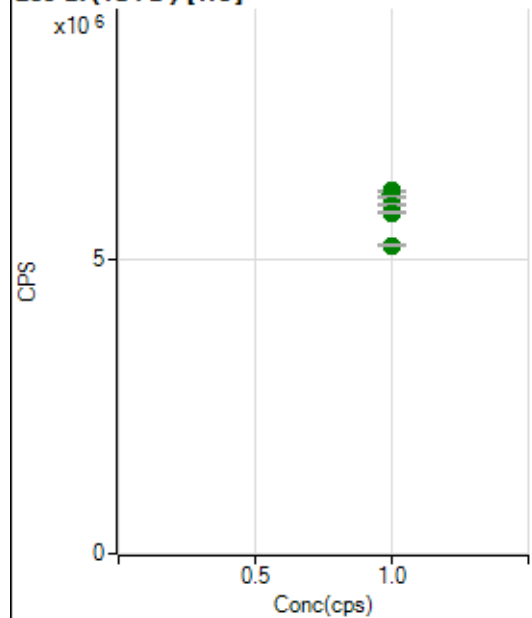
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12258652.59		A	0.8
2	☐	1.000		12340026.20		A	0.8
3	☐	1.000		12445685.79		A	1.2
4	☐	1.000		12375508.84		A	1.5
5	☐	1.000		12329281.21		A	1.1
6	☐	1.000		12334205.65		A	0.3
7	☐	1.000		12233851.48		A	1.9
8	☐	1.000		11808136.91		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8006059.60		A	1.0
2	☐	1.000		8036668.42		A	0.5
3	☐	1.000		8101965.50		A	1.8
4	☐	1.000		7976276.69		A	0.6
5	☐	1.000		8084948.63		A	1.2
6	☐	1.000		7914684.33		A	0.1
7	☐	1.000		7937153.14		A	0.9
8	☐	1.000		7787235.37		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8206358.70		A	1.1
2	☐	1.000		8151234.67		A	1.2
3	☐	1.000		8228294.53		A	0.4
4	☐	1.000		8199185.71		A	1.6
5	☐	1.000		8163173.91		A	0.5
6	☐	1.000		8100522.94		A	1.2
7	☐	1.000		7854684.54		A	0.5
8	☐	1.000		6990507.81		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6108939.35		A	0.8
2	☐	1.000		6170175.26		A	0.3
3	☐	1.000		6135363.66		A	1.7
4	☐	1.000		6106115.88		A	1.1
5	☐	1.000		6072365.60		A	0.4
6	☐	1.000		5935270.26		A	0.8
7	☐	1.000		5793332.27		A	0.6
8	☐	1.000		5245699.19		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7051622-MS.b

Acq. Date-Time 2022-05-16 15:09:57

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11733	117332.96			0.482	5.000
24		103504	1035039.06			0.429	5.000
25		13791	137914.92			0.103	5.000
26		15666	156657.36			0.304	5.000
59		27402	274016.21			0.333	5.000
113		13266	132657.97			0.430	5.000
115		41328	413277.19			2.239	5.000
206		17979	179785.99			0.635	5.000
207		15231	152312.66			0.513	5.000
208		37294	372937.83			0.440	5.000
220		0	1.80			77.579	

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

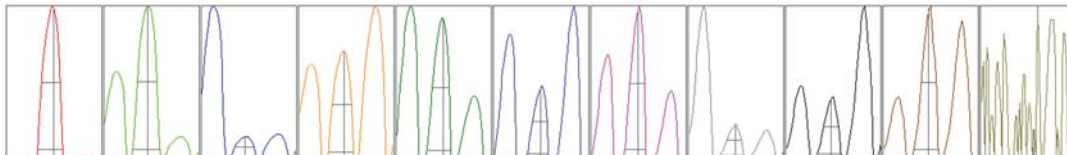
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11692	11769	11670	11726	11809
24	103204	103015	103738	103427	104135
25	13790	13768	13799	13798	13803
26	15590	15703	15699	15649	15688
59	27377	27309	27526	27332	27464
113	13353	13259	13274	13196	13247
115	42255	41935	41621	40882	39945
206	18149	17916	18041	17910	17876
207	15330	15280	15140	15168	15239
208	37364	37501	37062	37222	37321

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	21044.10	9.00	8.90 - 9.10	
24	178693.21	23.90	23.90 - 24.10	
25	23443.02	24.90	24.90 - 25.10	
26	26690.90	25.95	25.90 - 26.10	
59	53247.02	59.00	58.90 - 59.10	
113	29479.46	113.00	112.90 - 113.10	
115	91455.44	115.00	114.90 - 115.10	
206	39001.72	206.00	205.90 - 206.10	
207	31823.65	206.95	206.90 - 207.10	
208	79709.51	207.95	207.90 - 208.10	
220	0.10	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.784	0.900	
24	0.62	0.854	0.900	
25	0.61	0.785	0.900	
26	0.62	0.787	0.900	
59	0.53	0.762	0.900	
113	0.46	0.673	0.900	
115	0.46	0.673	0.900	
206	0.47	0.759	0.900	
207	0.48	0.738	0.900	
208	0.47	0.768	0.900	
220	0.05	0.095		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	14.0 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	1.0005	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	1.0 mm
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EM

Discriminator	3.1 mV	Analog HV	2170 V	Pulse HV	1451 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9418	94177.88			0.348	
89		46451	464509.05			0.565	
205		58011	580111.95			0.550	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9455	9384	9386	9419	9445
89	46850	46557	46306	46173	46369
205	57949	58521	57921	57644	58020

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	1.0005	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	1.0 mm
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EM

Discriminator	3.1 mV	Analog HV	2170 V	Pulse HV	1451 V
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