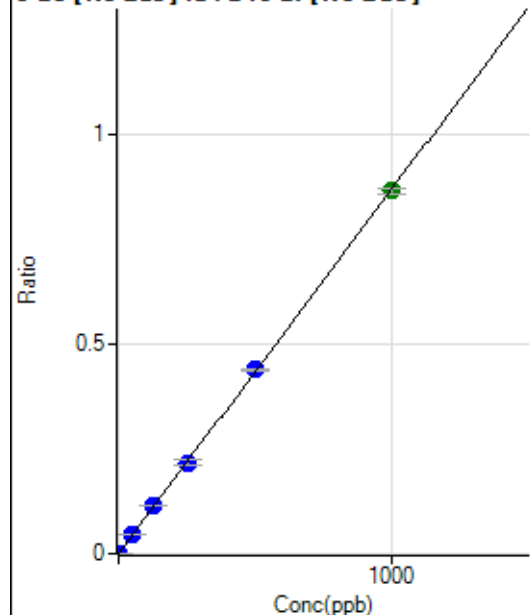


Calibration for 035SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032523MS.b\
 Analysis File: P7032523MS.batch.bin
 DA Date-Time: 2023-03-26 01:04:02
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-25 17:10:15
2	006CALS.d	S02	2023-03-25 17:16:46
3	007CALS.d	S03	2023-03-25 17:20:01
4	008CALS.d	S04	2023-03-25 17:23:01
5	009CALS.d	S05	2023-03-25 17:25:53
6	010CALS.d	S06	2023-03-25 17:28:41
7	011CALS.d	S07	2023-03-25 17:31:26
8	012CALS.d	S08	2023-03-25 17:34:14

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	35.7
2	☐	1.000	1.057	1977.93	0.0009	P	3.8
3	☐	50.000	52.511	99368.16	0.0457	P	3.1
4	☐	125.000	131.832	240999.97	0.1146	P	1.9
5	☐	250.000	250.720	465232.75	0.2179	P	6.1
6	☐	500.000	505.271	894744.08	0.4391	P	1.6
7	☐	1000.000	996.205	1713725.34	0.8658	A	1.8
8	☐			700.02	0.0004	P	27.0

$$y = 8.6908\text{E-}004 * x + 1.5719\text{E-}005$$

$$R = 1.0000$$

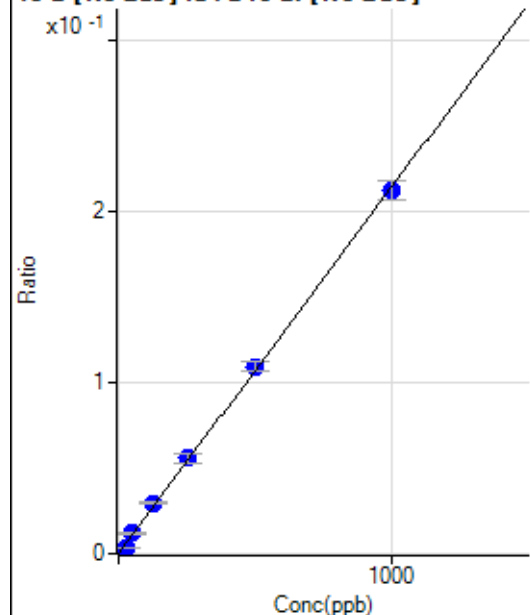
$$DL = 0.01935$$

$$BEC = 0.01809$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	247.78	0.0001	P	1.1
2	☐	25.000	14.777	6930.49	0.0033	P	1.2
3	☐	50.000	54.941	25783.75	0.0119	P	8.5
4	☐	125.000	137.596	62064.74	0.0295	P	5.3
5	☐	250.000	261.188	119298.00	0.0559	P	9.9
6	☐	500.000	510.998	222698.29	0.1093	P	4.4
7	☐	1000.000	990.138	418871.72	0.2117	P	5.2
8	☐			15122.00	0.0081	P	16.6

$$y = 2.1368\text{E-}004 * x + 1.1687\text{E-}004$$

$$R = 0.9997$$

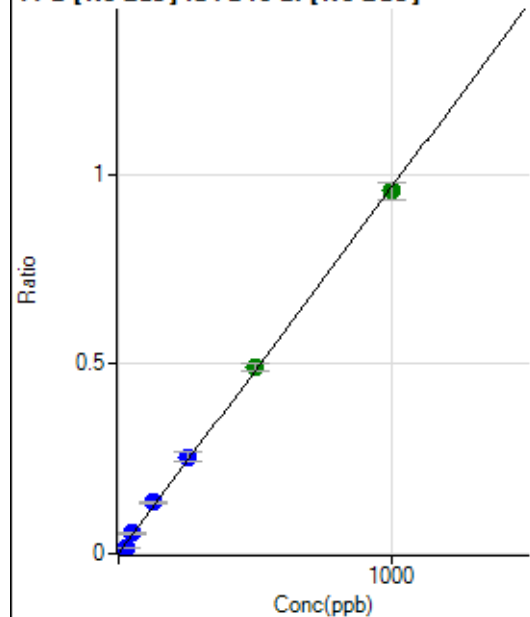
$$DL = 0.01781$$

$$BEC = 0.547$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1078.94	0.0005	P	6.0
2	☐	25.000	14.806	31294.94	0.0148	P	2.7
3	☐	50.000	55.599	117667.85	0.0541	P	7.3
4	☐	125.000	139.259	283283.64	0.1347	P	5.4
5	☐	250.000	263.981	543945.92	0.2549	P	9.2
6	☐	500.000	508.168	998927.10	0.4903	A	4.3
7	☐	1000.000	990.613	1890368.04	0.9553	A	4.6
8	☐			67916.26	0.0365	P	15.7

$$y = 9.6383E-004 * x + 5.0919E-004$$

$$R = 0.9996$$

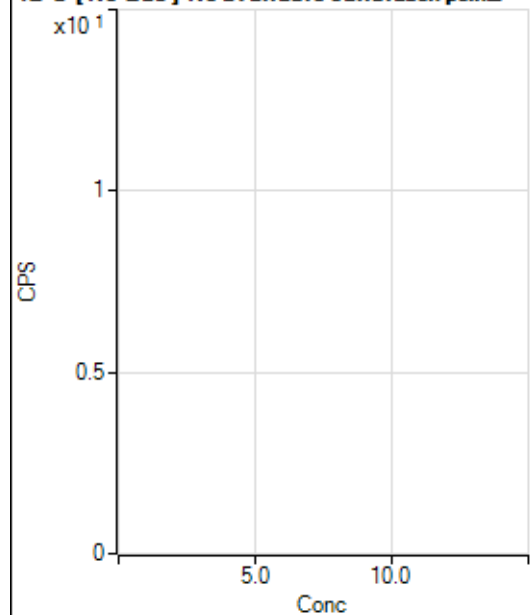
$$DL = 0.09548$$

$$BEC = 0.5283$$

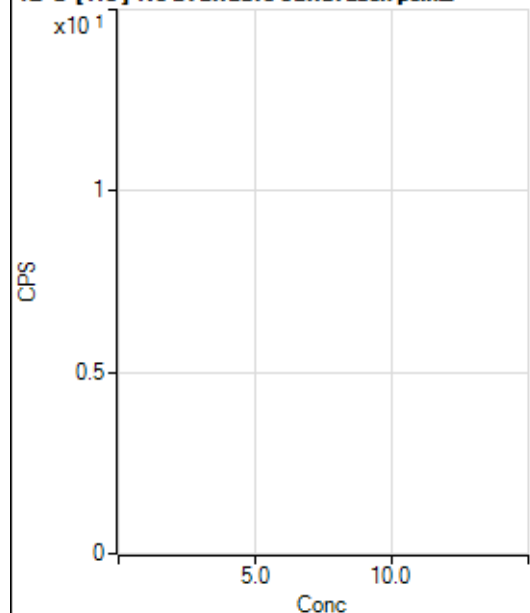
Weight: <None>

Min Conc: 0

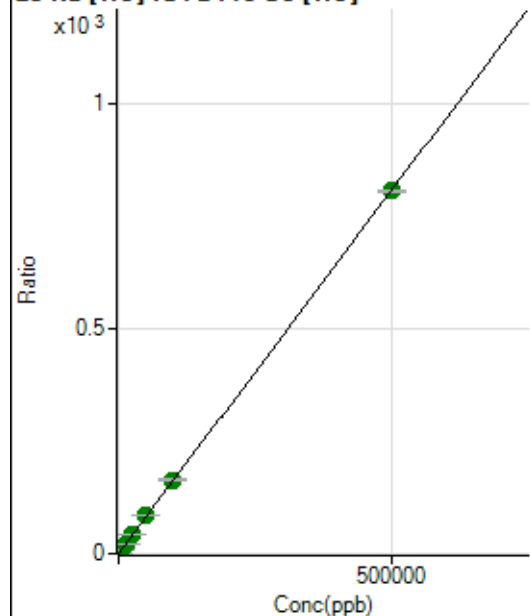
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15892.70	0.0342	P	2.6
2	☐	500.000	522.847	404474.10	0.8788	P	0.5
3	☐	5000.000	5319.757	3922124.66	8.6279	A	0.9
4	☐	12500.000	13268.379	9519465.27	21.4683	A	0.4
5	☐	25000.000	25967.016	18811242.77	41.9820	A	1.6
6	☐	50000.000	51716.995	37167179.17	83.5792	A	0.4
7	☐	100000.00	101776.26	72900713.36	164.4462	A	1.7
8	☐	500000.00	499402.26	333593912.8	806.7815	A	0.2

$$y = 0.0016 * x + 0.0342$$

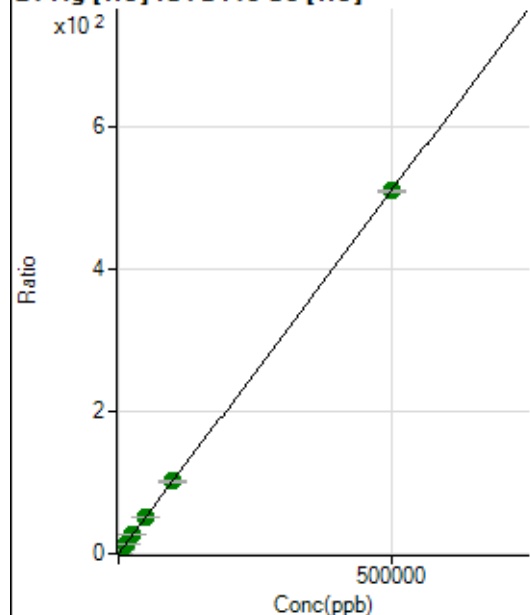
$$R = 1.0000$$

$$DL = 1.65$$

$$BEC = 21.18$$

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	795.58	0.0017	P	9.1
2	☐	500.000	507.434	238955.42	0.5192	P	0.6
3	☐	5000.000	5301.542	2458528.70	5.4082	A	0.9
4	☐	12500.000	13242.286	5988491.30	13.5062	A	1.0
5	☐	25000.000	26066.924	11912321.07	26.5849	A	1.5
6	☐	50000.000	51363.598	23294319.37	52.3825	A	0.9
7	☐	100000.00	99860.853	45146252.66	101.8402	A	1.9
8	☐	500000.00	499816.54	210757472.4	509.7167	A	0.5

$$y = 0.0010 * x + 0.0017$$

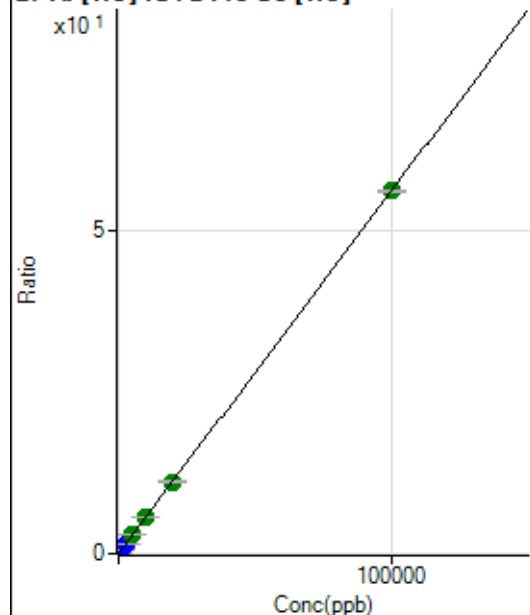
$$R = 1.0000$$

$$DL = 0.4607$$

$$BEC = 1.679$$

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	227.78	0.0005	P	14.5
2	☐	20.000	21.129	5693.32	0.0124	P	3.9
3	☐	1000.000	1105.542	282772.24	0.6220	P	0.5
4	☐	2500.000	2662.374	663865.48	1.4972	P	0.8
5	☐	5000.000	5155.456	1298954.01	2.8988	A	0.4
6	☐	10000.000	10151.209	2537795.97	5.7073	A	1.0
7	☐	20000.000	19856.772	4948894.65	11.1636	A	1.8
8	☐	100000.00	100000.63	23245271.88	56.2188	A	0.6

$$y = 5.6218E-004 * x + 4.9038E-004$$

$$R = 1.0000$$

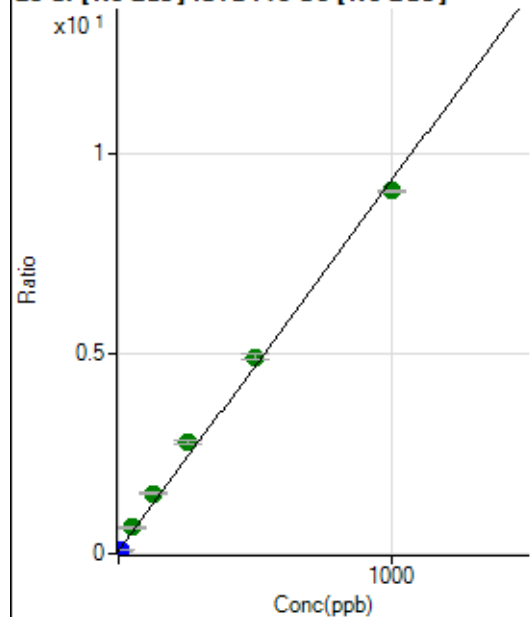
$$DL = 0.3788$$

$$BEC = 0.8723$$

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	345792.42	0.0695	P	2.1
2	☐	10.000	1.381	408483.57	0.0823	P	0.5
3	☐	50.000	62.822	3315983.91	0.6516	A	3.8
4	☐	125.000	155.620	7303798.36	1.5114	A	1.4
5	☐	250.000	294.129	13501209.66	2.7948	A	4.0
6	☐	500.000	523.999	23616153.81	4.9248	A	3.0
7	☐	1000.000	972.586	43375982.69	9.0813	A	0.6
8	☐			806123.95	0.1768	P	5.5

$$y = 0.0093 * x + 0.0695$$

$$R = 0.9980$$

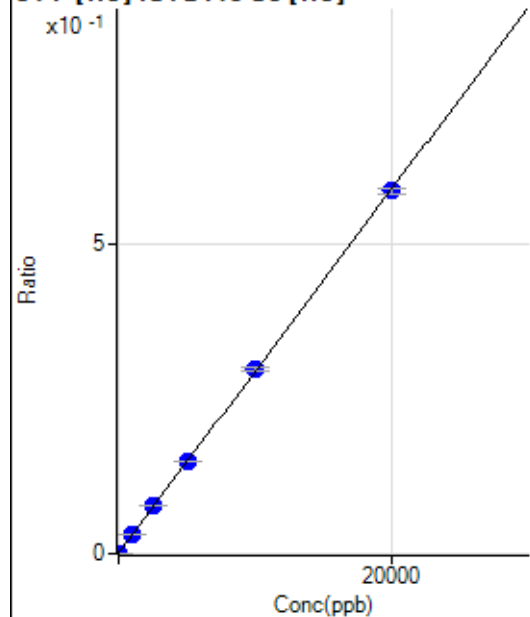
$$DL = 0.4771$$

$$BEC = 7.501$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.354	288.89	0.0006	P	8.2
2	☐	0.000	9.354	538.90	0.0012	P	13.5
3	☐	1000.000	1021.893	14045.43	0.0309	P	0.3
4	☐	2500.000	2635.851	34706.00	0.0783	P	1.7
5	☐	5000.000	5068.684	67078.42	0.1497	P	0.7
6	☐	10000.000	10098.493	132187.99	0.2974	P	2.7
7	☐	20000.000	19915.507	259605.71	0.5856	P	1.5
8	☐			417.79	0.0010	P	8.7

$$y = 2.9357E-005 * x + 8.9644E-004$$

$$R = 1.0000$$

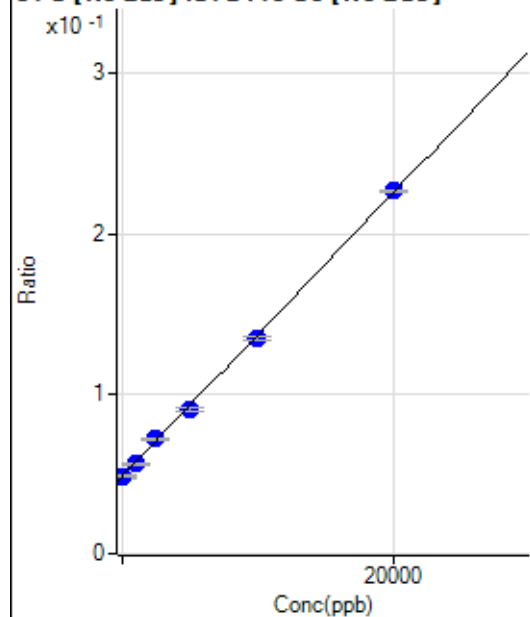
$$DL = 10.68$$

$$BEC = 30.54$$

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	-30.151	238479.88	0.0479	P	2.3
2	☐	0.000	30.151	240563.07	0.0485	P	1.0
3	☐	1000.000	875.370	284813.80	0.0560	P	2.2
4	☐	2500.000	2647.361	346191.24	0.0716	P	0.6
5	☐	5000.000	4718.250	434709.73	0.0900	P	2.6
6	☐	10000.000	9781.719	646483.83	0.1348	P	1.8
7	☐	20000.000	20167.389	1082916.85	0.2267	P	0.5
8	☐			212736.59	0.0467	P	1.1

$$y = 8.8520E-006 * x + 0.0482$$

$$R = 0.9997$$

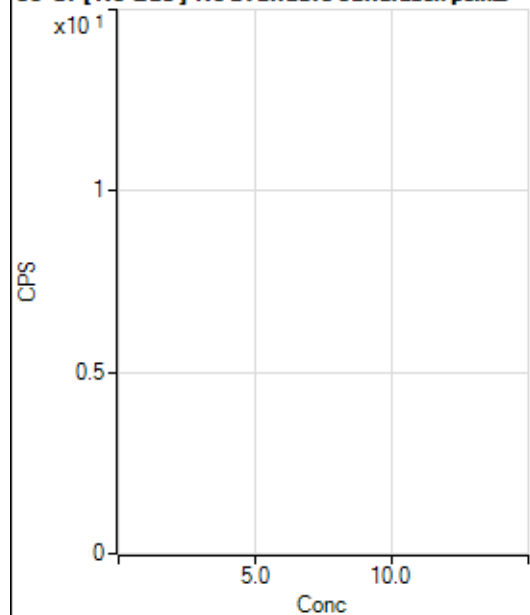
$$DL = 274.2$$

$$BEC = 5446$$

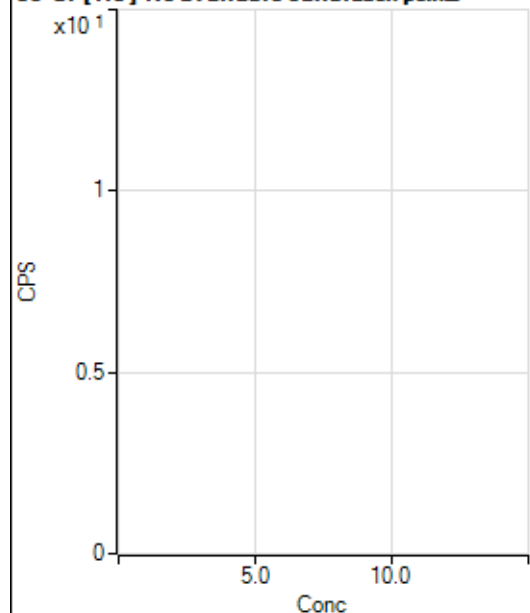
Weight: <None>

Min Conc: 0

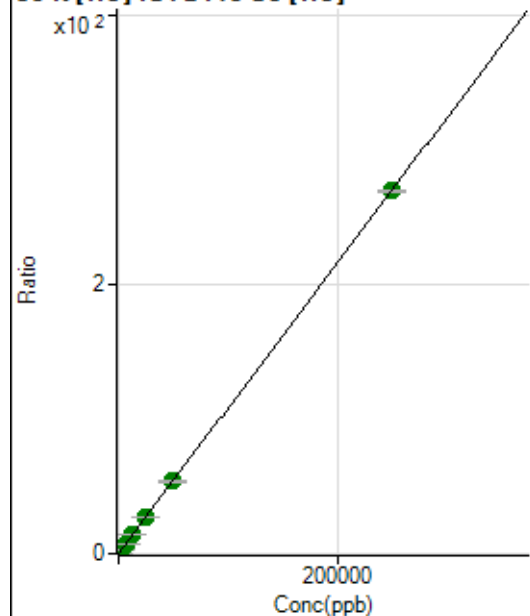
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	62314.61	0.1341	P	0.7
2	☐	500.000	522.667	320892.47	0.6972	P	0.2
3	☐	2500.000	2549.913	1309852.48	2.8813	A	0.2
4	☐	6250.000	6479.383	3154631.27	7.1147	A	0.8
5	☐	12500.000	12623.686	6154245.05	13.7343	A	0.5
6	☐	25000.000	25243.776	12150453.43	27.3305	A	2.2
7	☐	50000.000	49822.204	23855155.48	53.8101	A	1.5
8	☐	250000.00	249998.71	111418368.3	269.4706	A	0.9

$$y = 0.0011 * x + 0.1341$$

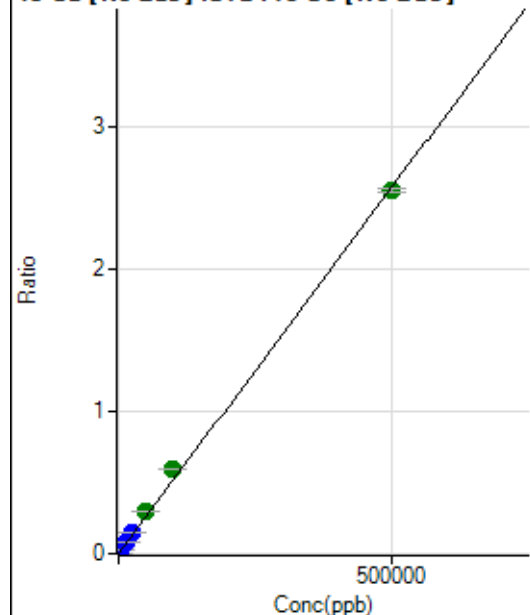
$$R = 1.0000$$

$$DL = 2.684$$

$$BEC = 124.5$$

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	146.67	0.0000	P	5.9
2	☐	500.000	543.850	14016.56	0.0028	P	1.3
3	☐	5000.000	6009.661	157321.03	0.0309	P	3.0
4	☐	12500.000	15347.620	381235.20	0.0789	P	1.1
5	☐	25000.000	29442.764	731037.40	0.1513	P	3.4
6	☐	50000.000	57706.481	1422017.01	0.2965	A	3.4
7	☐	100000.00	115983.12	2846720.89	0.5960	A	0.5
8	☐	500000.00	495729.25	11611697.19	2.5473	A	1.2

$$y = 5.1384\text{E-}006 * x + 2.9477\text{E-}005$$

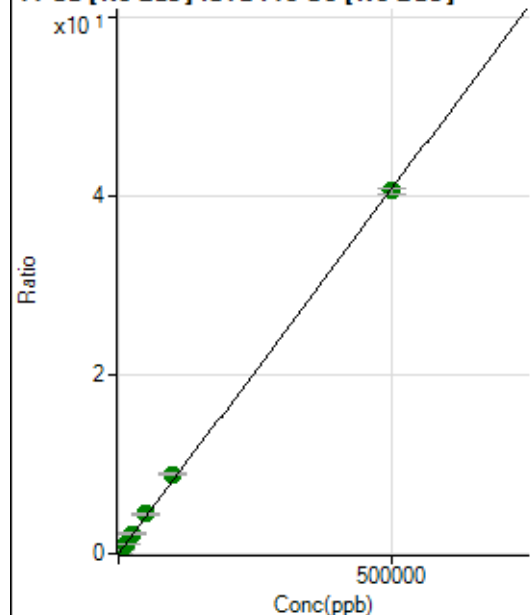
R = 0.9994

DL = 1.021

BEC = 5.737

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	6140.26	0.0012	P	3.0
2	☐	500.000	547.868	228045.13	0.0459	P	0.4
3	☐	5000.000	5532.685	2304163.09	0.4528	A	3.6
4	☐	12500.000	14022.607	5536366.24	1.1456	A	0.2
5	☐	25000.000	27219.343	10735514.42	2.2226	A	4.9
6	☐	50000.000	54606.493	21377089.26	4.4577	A	2.8
7	☐	100000.00	108991.88	42489587.70	8.8961	A	1.5
8	☐	500000.00	497586.56	185114981.6	40.6096	A	1.7

$$y = 8.1611\text{E-}005 * x + 0.0012$$

R = 0.9998

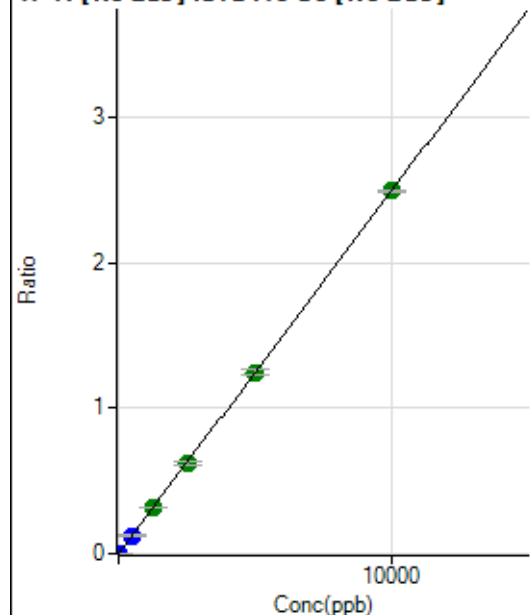
DL = 1.354

BEC = 15.13

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	111.11	0.0000	P	10.0
2	☐	5.000	5.167	6515.90	0.0013	P	1.8
3	☐	500.000	499.199	634607.85	0.1247	P	3.4
4	☐	1250.000	1279.693	1544536.38	0.3196	A	0.6
5	☐	2500.000	2483.088	2995214.36	0.6202	A	5.4
6	☐	5000.000	5000.050	5988067.27	1.2488	A	3.3
7	☐	10000.000	10000.532	11929512.60	2.4976	A	0.2
8	☐			2840.30	0.0006	P	20.4

$$y = 2.4974\text{E-}004 * x + 2.2351\text{E-}005$$

$$R = 1.0000$$

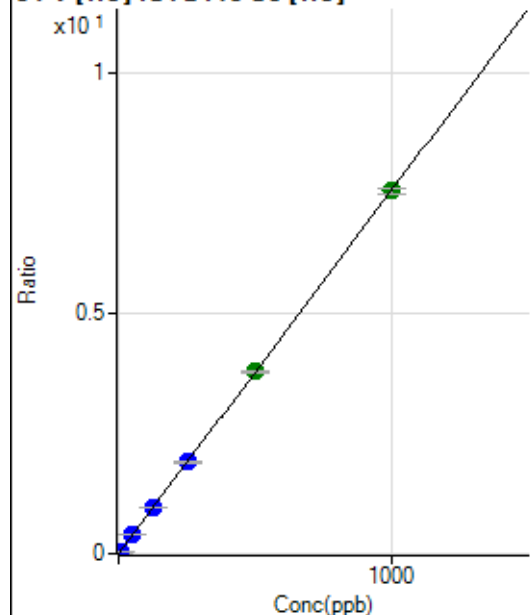
$$DL = 0.02689$$

$$BEC = 0.08949$$

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	4.44	0.0000	P	43.1
2	☐	5.000	4.939	17196.55	0.0374	P	3.7
3	☐	50.000	51.101	175715.30	0.3865	P	1.4
4	☐	125.000	128.548	431132.52	0.9724	P	1.2
5	☐	250.000	252.068	854364.79	1.9067	P	1.0
6	☐	500.000	500.681	1683775.27	3.7872	A	1.8
7	☐	1000.000	998.644	3348694.99	7.5539	A	1.9
8	☐			693.36	0.0017	P	4.2

$$y = 0.0076 * x + 9.5565\text{E-}006$$

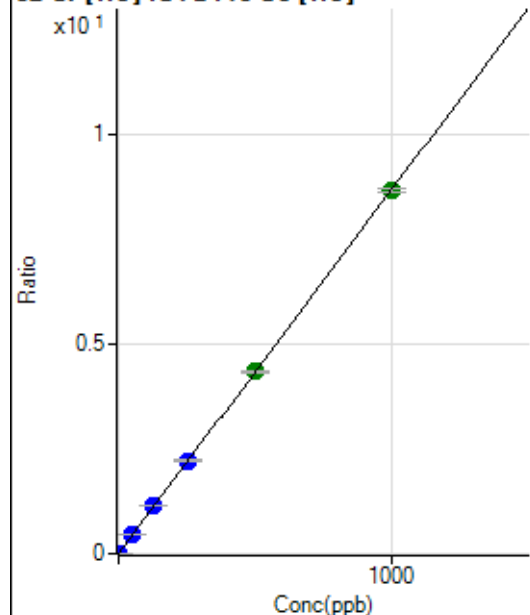
$$R = 1.0000$$

$$DL = 0.001634$$

$$BEC = 0.001263$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1201.17	0.0026	P	1.5
2	☐	2.000	1.994	9150.63	0.0199	P	0.5
3	☐	50.000	51.881	205713.04	0.4525	P	1.1
4	☐	125.000	133.902	516049.13	1.1639	P	0.9
5	☐	250.000	255.957	995833.22	2.2224	P	1.0
6	☐	500.000	500.102	1929486.03	4.3398	A	1.6
7	☐	1000.000	997.253	3835628.83	8.6514	A	0.9
8	☐			26257.42	0.0635	P	0.5

$$y = 0.0087 * x + 0.0026$$

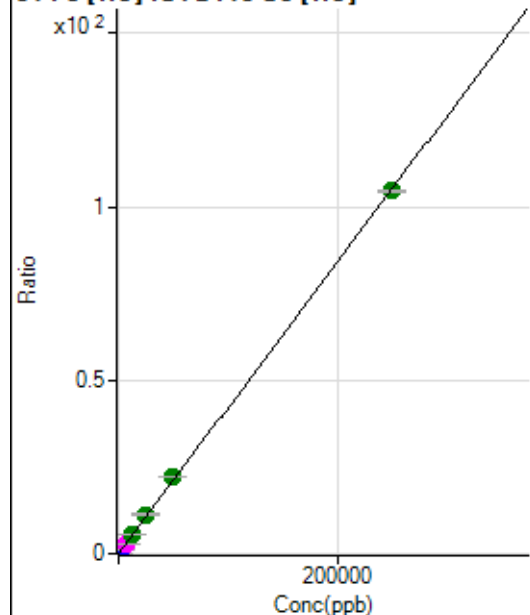
$$R = 1.0000$$

$$DL = 0.01371$$

$$BEC = 0.2981$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2185.73	0.0047	P	8.2
2	☐	50.000	55.329	12855.55	0.0279	P	1.8
3	☐	2500.000	2935.018	562274.83	1.2369	P	0.7
4	☐	6250.000	7133.373	1329767.14	2.9994	M	2.7
5	☐	12500.000	13671.775	2573973.66	5.7443	A	0.8
6	☐	25000.000	26909.985	5024316.35	11.3019	A	2.5
7	☐	50000.000	52896.452	9847009.64	22.2113	A	1.3
8	☐	250000.00	249144.68	43250436.30	104.5990	A	0.3

$$y = 4.1981E-004 * x + 0.0047$$

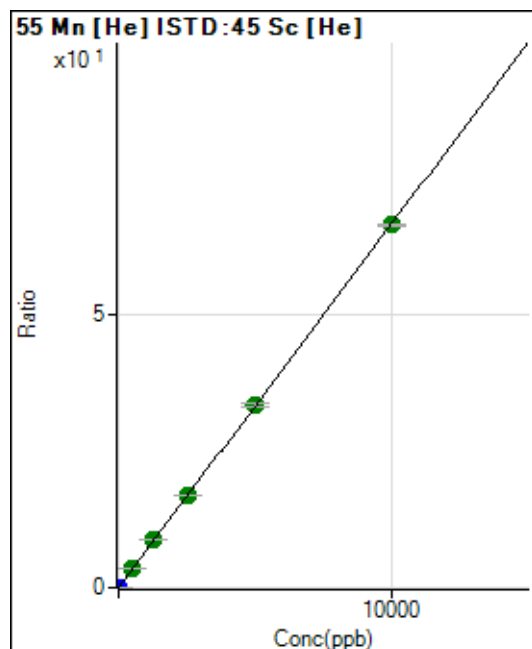
$$R = 0.9999$$

$$DL = 2.747$$

$$BEC = 11.21$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0003	P	8.8
2	☐	1.000	1.118	3562.68	0.0077	P	1.8
3	☐	500.000	521.220	1578841.42	3.4731	A	0.6
4	☐	1250.000	1310.166	3870575.81	8.7296	A	1.1
5	☐	2500.000	2532.301	7560612.46	16.8724	A	0.5
6	☐	5000.000	5014.739	14853684.22	33.4124	A	2.5
7	☐	10000.000	9975.974	29468806.23	66.4679	A	0.6
8	☐			19667.40	0.0476	P	1.8

$$y = 0.0067 * x + 2.9415E-004$$

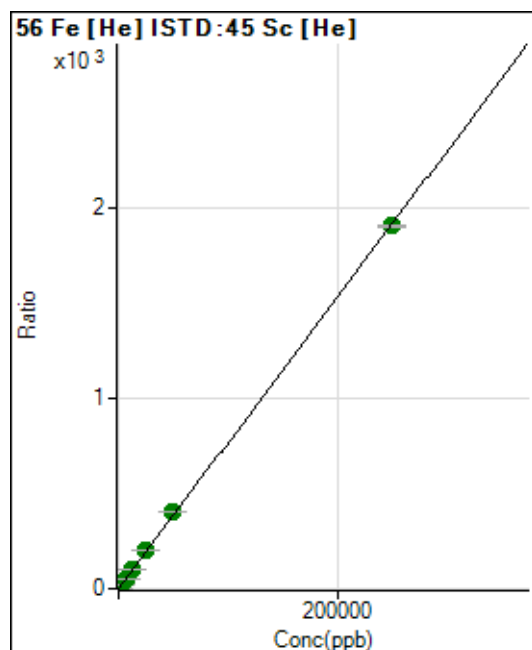
$$R = 1.0000$$

$$DL = 0.01161$$

$$BEC = 0.04415$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11605.68	0.0250	P	0.8
2	☐	50.000	53.853	200633.28	0.4359	P	0.3
3	☐	2500.000	2832.763	9837767.70	21.6412	A	0.9
4	☐	6250.000	6899.562	23354902.99	52.6742	A	1.2
5	☐	12500.000	13498.412	46167500.42	103.0287	A	0.2
6	☐	25000.000	26575.052	90161967.55	202.8139	A	2.9
7	☐	50000.000	52633.118	178074995.1	401.6579	A	1.2
8	☐	250000.00	249246.38	786447703.8	1,901.974	A	0.3

$$y = 0.0076 * x + 0.0250$$

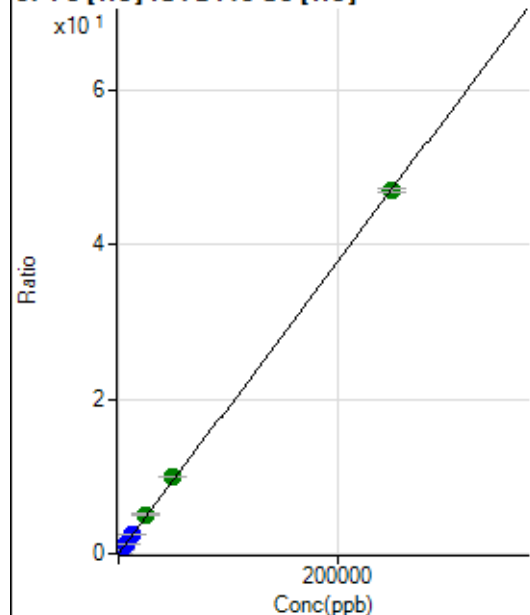
$$R = 0.9999$$

$$DL = 0.08207$$

$$BEC = 3.273$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	443.34	0.0010	P	6.5
2	☐	50.000	55.602	5255.41	0.0114	P	2.6
3	☐	2500.000	2905.330	249004.16	0.5478	P	1.5
4	☐	6250.000	7155.346	597548.06	1.3477	P	1.1
5	☐	12500.000	13807.158	1164906.98	2.5997	P	0.4
6	☐	25000.000	26742.230	2237895.04	5.0343	A	2.9
7	☐	50000.000	52601.803	4389761.26	9.9014	A	0.7
8	☐	250000.00	249213.37	19394529.57	46.9068	A	0.9

$$y = 1.8822\text{E-}004 * x + 9.5411\text{E-}004$$

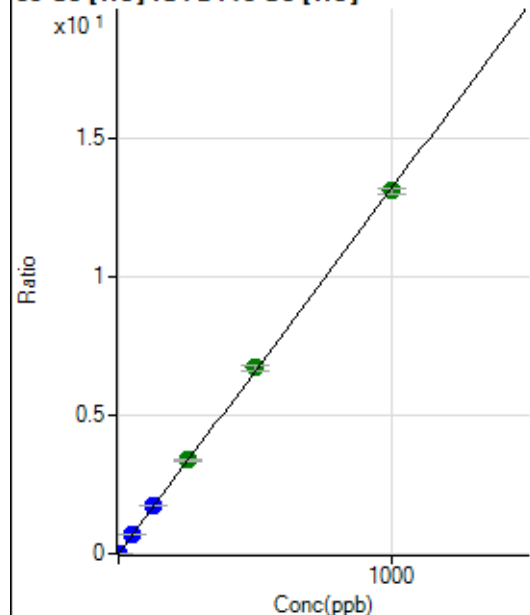
R = 0.9999

DL = 0.9879

BEC = 5.069

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57.78	0.0001	P	6.9
2	☐	1.000	1.025	6294.71	0.0137	P	2.0
3	☐	50.000	51.643	310334.38	0.6827	P	1.2
4	☐	125.000	130.001	761920.94	1.7183	P	0.4
5	☐	250.000	256.852	1521199.09	3.3949	A	1.5
6	☐	500.000	508.454	2987509.96	6.7203	A	2.6
7	☐	1000.000	993.353	5820520.05	13.1292	A	1.3
8	☐			5598.88	0.0135	P	2.1

$$y = 0.0132 * x + 1.2437\text{E-}004$$

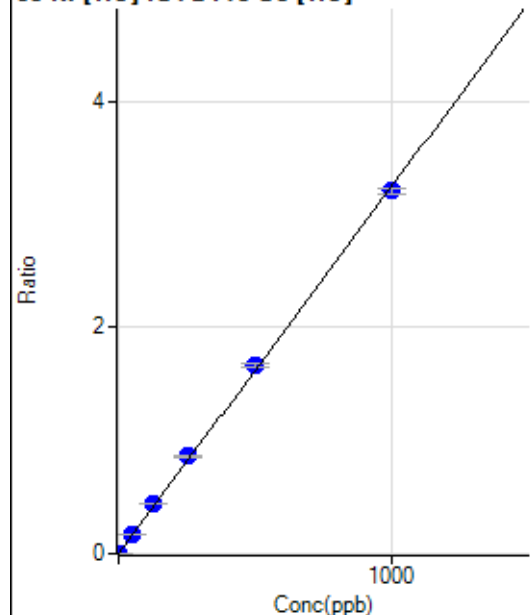
R = 0.9999

DL = 0.001951

BEC = 0.00941

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.67	0.0001	P	47.1
2	☐	1.000	1.107	1687.89	0.0037	P	3.1
3	☐	50.000	54.661	80619.64	0.1774	P	1.1
4	☐	125.000	138.566	199292.97	0.4495	P	0.4
5	☐	250.000	264.855	384929.50	0.8590	P	0.4
6	☐	500.000	511.439	737423.95	1.6587	P	2.2
7	☐	1000.000	988.638	1421401.05	3.2063	P	1.6
8	☐			3213.71	0.0078	P	1.0

$$y = 0.0032 * x + 7.8873E-005$$

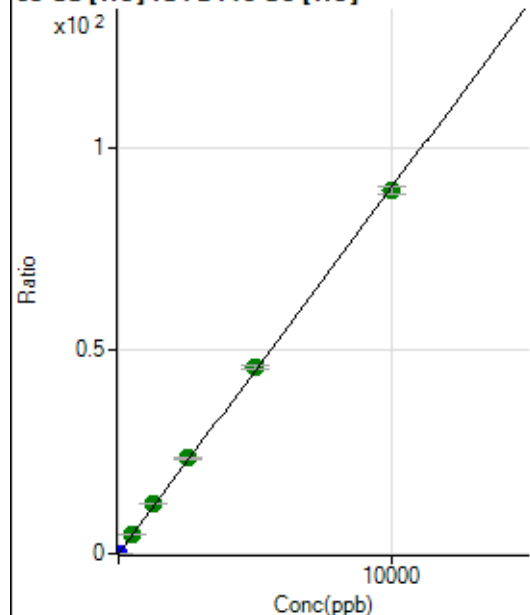
$$R = 0.9997$$

$$DL = 0.03437$$

$$BEC = 0.02432$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1090.05	0.0023	P	3.7
2	☐	2.000	2.079	9702.11	0.0211	P	2.3
3	☐	500.000	546.876	2241603.37	4.9310	A	0.7
4	☐	1250.000	1347.957	5387767.84	12.1507	A	0.7
5	☐	2500.000	2602.196	10509494.43	23.4545	A	1.5
6	☐	5000.000	5099.536	20434936.50	45.9616	A	1.5
7	☐	10000.000	9910.094	39593725.52	89.3165	A	2.1
8	☐			6565.98	0.0159	P	5.1

$$y = 0.0090 * x + 0.0023$$

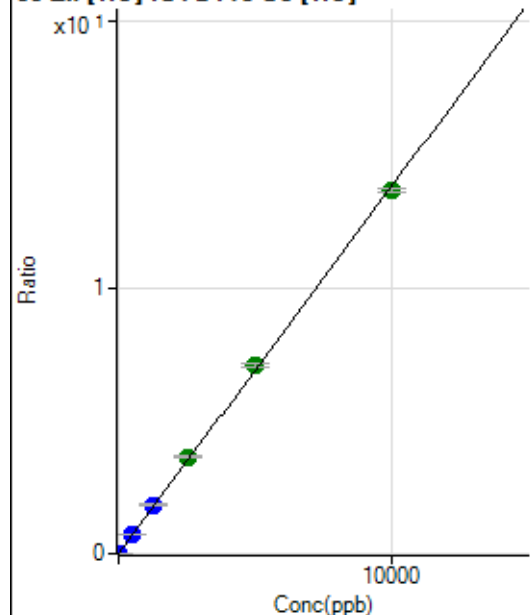
$$R = 0.9998$$

$$DL = 0.02906$$

$$BEC = 0.2603$$

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	243.34	0.0005	P	9.8
2	☐	2.000	2.509	1833.46	0.0040	P	5.0
3	☐	500.000	529.567	332191.82	0.7308	P	0.9
4	☐	1250.000	1330.544	813728.52	1.8353	P	0.9
5	☐	2500.000	2642.053	1632702.53	3.6437	A	1.2
6	☐	5000.000	5140.911	3151996.41	7.0895	A	1.6
7	☐	10000.000	9882.485	6041677.76	13.6278	A	1.0
8	☐			4269.55	0.0103	P	2.8

$$y = 0.0014 * x + 5.2381E-004$$

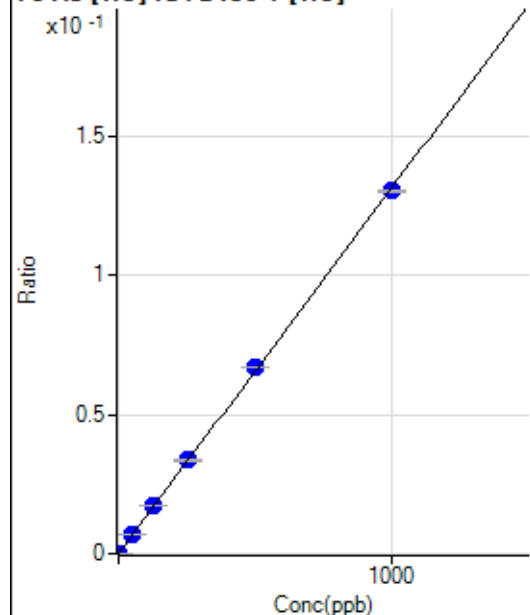
$$R = 0.9997$$

$$DL = 0.1116$$

$$BEC = 0.3799$$

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	8.89	0.0000	P	93.5
2	☐	1.000	1.187	493.35	0.0002	P	7.9
3	☐	50.000	51.678	20955.99	0.0068	P	2.3
4	☐	125.000	130.682	52461.04	0.0172	P	0.8
5	☐	250.000	256.407	103425.03	0.0337	P	1.0
6	☐	500.000	509.545	203775.43	0.0670	P	0.5
7	☐	1000.000	992.831	398258.57	0.1306	P	0.4
8	☐			94.45	0.0000	P	17.1

$$y = 1.3149E-004 * x + 2.8014E-006$$

$$R = 0.9999$$

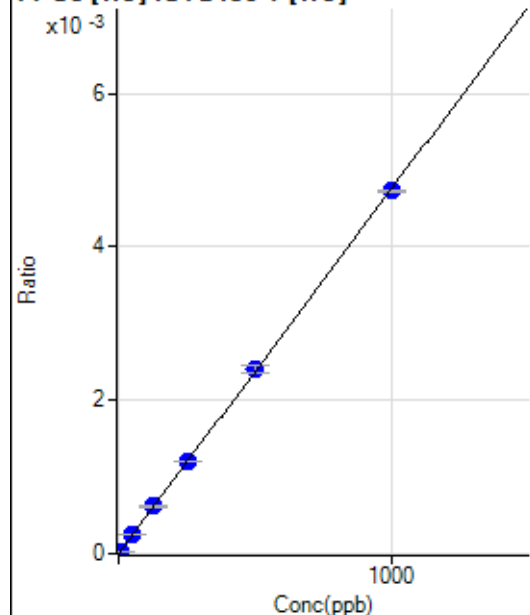
$$DL = 0.05973$$

$$BEC = 0.02131$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.367	64.45	0.0000	P	5.8
3	☐	50.000	54.150	793.36	0.0003	P	3.1
4	☐	125.000	129.374	1876.81	0.0006	P	1.8
5	☐	250.000	254.611	3711.62	0.0012	P	0.6
6	☐	500.000	506.663	7321.86	0.0024	P	3.7
7	☐	1000.000	994.765	14421.54	0.0047	P	0.8
8	☐			5.56	0.0000	P	34.1

$$y = 4.7522\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

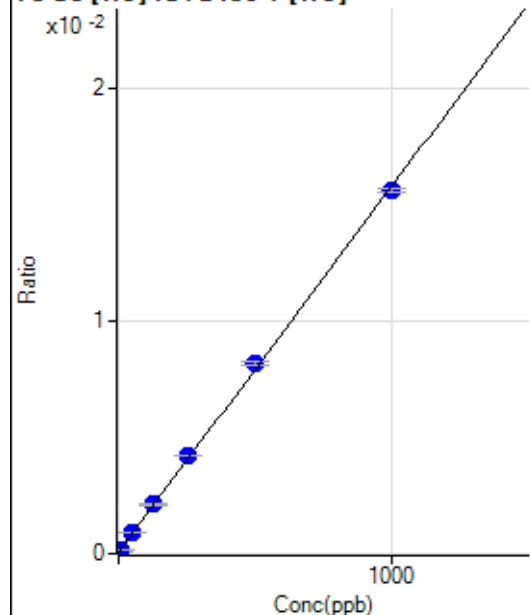
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	247.78	0.0001	P	2.6
2	☐	5.000	4.878	482.24	0.0002	P	4.6
3	☐	50.000	52.832	2801.41	0.0009	P	3.9
4	☐	125.000	129.422	6448.13	0.0021	P	1.6
5	☐	250.000	262.726	12904.61	0.0042	P	1.2
6	☐	500.000	515.716	24885.44	0.0082	P	1.2
7	☐	1000.000	988.267	47614.08	0.0156	P	1.1
8	☐			258.89	0.0001	P	3.5

$$y = 1.5714\text{E-}005 * x + 7.8673\text{E-}005$$

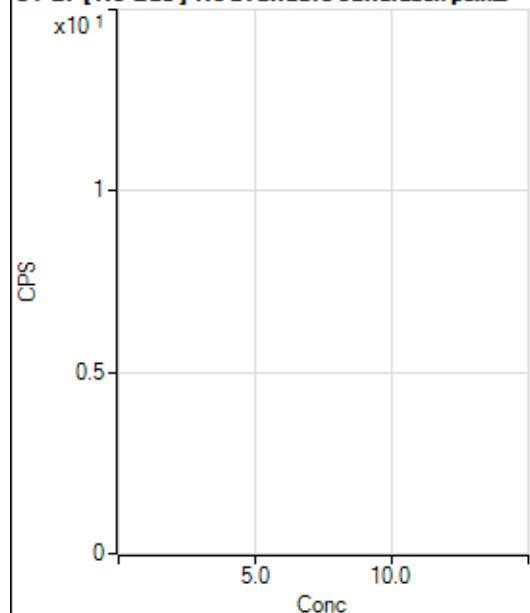
$$R = 0.9997$$

$$DL = 0.3893$$

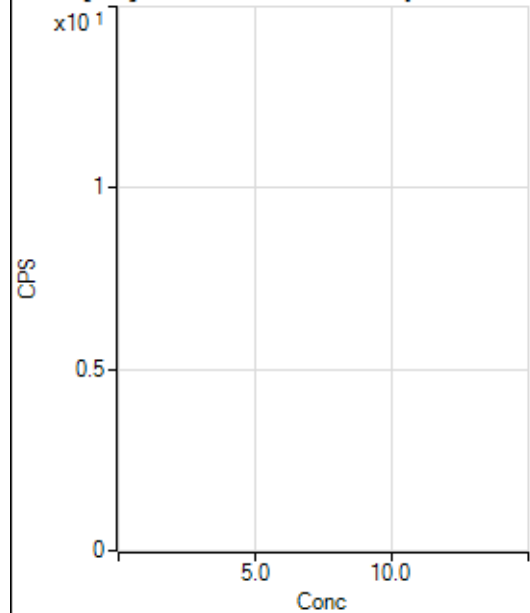
$$BEC = 5.007$$

Weight: <None>

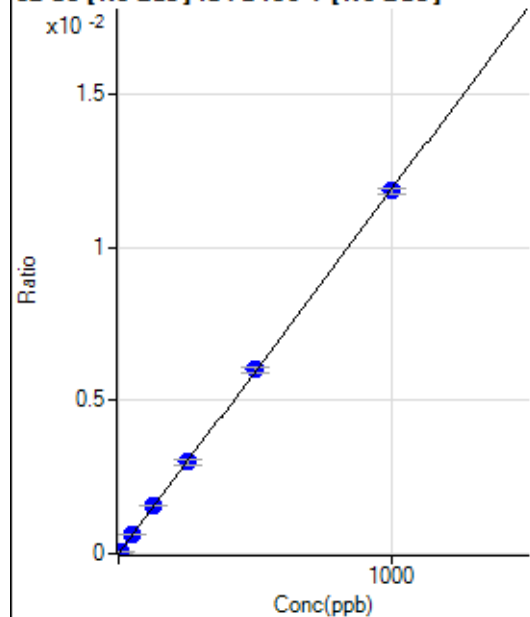
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37199.25		P	0.2
2	☐			37692.70		P	0.9
3	☐			36804.82		P	2.7
4	☐			35820.32		P	0.4
5	☐			35744.42		P	1.4
6	☐			36437.23		P	1.0
7	☐			37244.96		P	1.5
8	☐			36617.74		P	1.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			133.34		P	18.0
2	☐			95.56		P	15.7
3	☐			90.00		P	24.3
4	☐			93.33		P	35.2
5	☐			96.67		P	28.2
6	☐			127.78		P	9.9
7	☐			125.56		P	20.3
8	☐			120.00		P	7.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.36	0.0000	P	1.8
2	☐	5.000	4.957	789.41	0.0001	P	0.5
3	☐	50.000	51.359	7962.94	0.0006	P	5.1
4	☐	125.000	130.736	19322.27	0.0016	P	0.8
5	☐	250.000	250.585	37991.09	0.0030	P	4.9
6	☐	500.000	506.170	75096.34	0.0060	P	3.0
7	☐	1000.000	995.984	146630.09	0.0119	P	1.9
8	☐			283.88	0.0000	P	13.6

$$y = 1.1902\text{E-}005 * x + 3.7775\text{E-}006$$

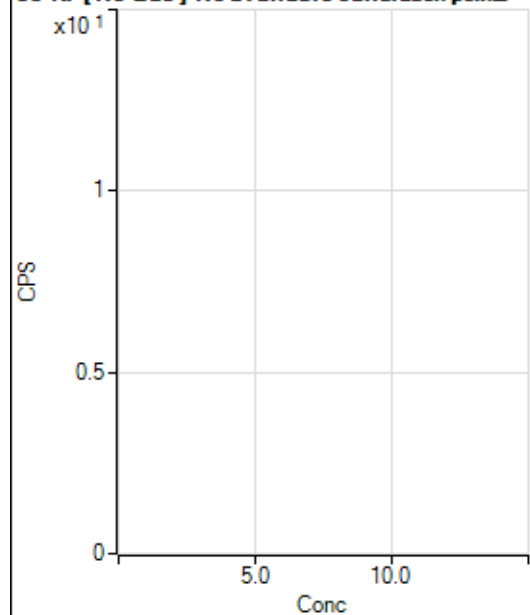
$$R = 1.0000$$

$$DL = 0.01757$$

$$BEC = 0.3174$$

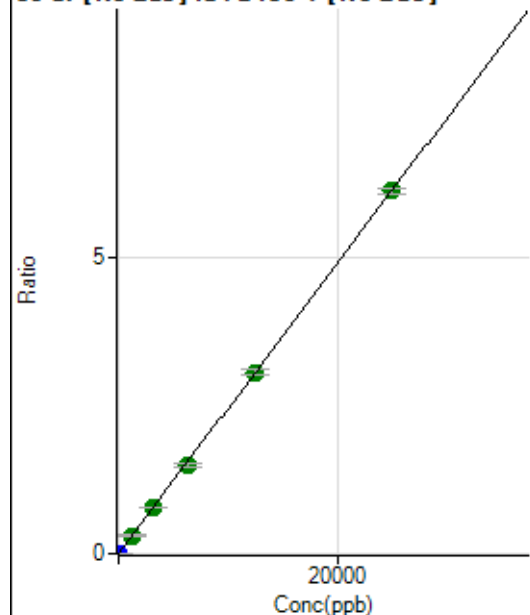
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			163.34		P	7.4
2	☐			182.23		P	5.3
3	☐			172.23		P	16.5
4	☐			181.11		P	2.8
5	☐			172.22		P	4.0
6	☐			191.11		P	13.5
7	☐			221.12		P	9.2
8	☐			206.67		P	16.1

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



$$y = 2.4528\text{E-}004 * x + 2.7836\text{E-}005$$

$$R = 1.0000$$

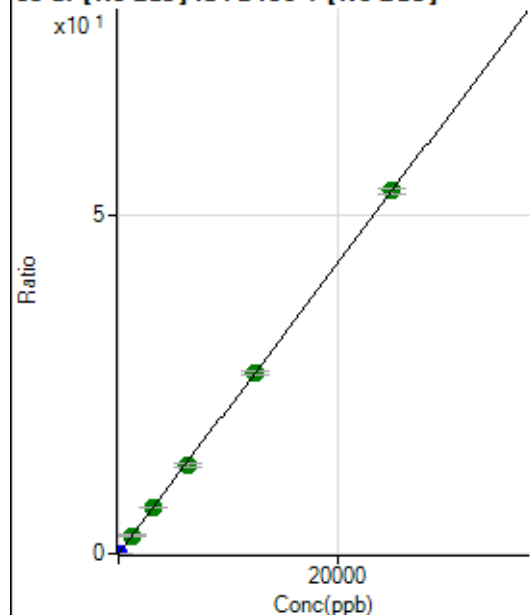
$$DL = 0.01863$$

$$BEC = 0.1135$$

Weight: <None>

Min Conc: 0

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



$$y = 0.0021 * x + 3.5780\text{E-}005$$

$$R = 1.0000$$

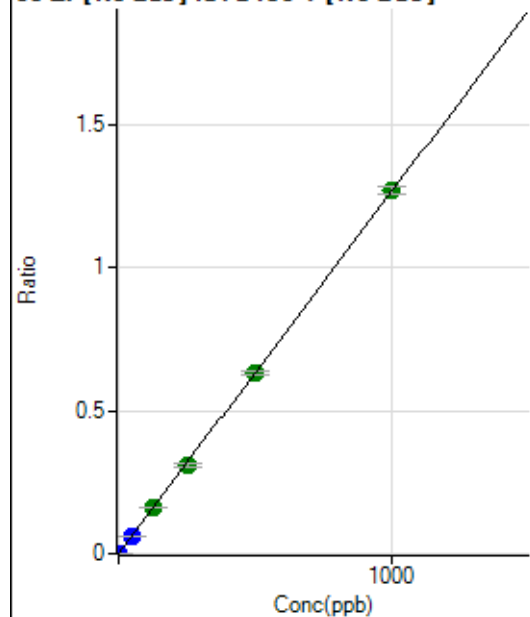
$$DL = 0.003607$$

$$BEC = 0.01669$$

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	407.79	0.0000	P	7.8
2	☐	1.000	0.924	15093.41	0.0012	P	0.5
3	☐	50.000	48.548	795109.52	0.0614	P	4.2
4	☐	125.000	127.939	2003806.90	0.1618	A	0.5
5	☐	250.000	243.050	3909308.21	0.3073	A	4.6
6	☐	500.000	498.027	7843692.52	0.6296	A	2.6
7	☐	1000.000	1002.429	15669615.88	1.2672	A	2.0
8	☐			5075.39	0.0004	P	16.0

$$y = 0.0013 * x + 3.2552E-005$$

$$R = 1.0000$$

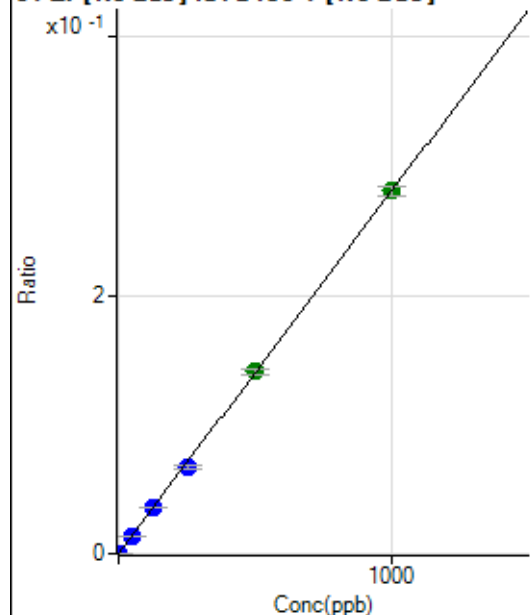
$$DL = 0.006007$$

$$BEC = 0.02575$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	31.5
2	☐	1.000	0.925	3351.53	0.0003	P	2.1
3	☐	50.000	48.868	177620.25	0.0137	P	3.3
4	☐	125.000	125.479	436095.69	0.0352	P	1.2
5	☐	250.000	240.991	860163.46	0.0676	P	4.2
6	☐	500.000	503.024	1757933.64	0.1411	A	3.3
7	☐	1000.000	1000.737	3470993.14	0.2807	A	2.6
8	☐			1144.50	0.0001	P	20.3

$$y = 2.8050E-004 * x + 7.0906E-006$$

$$R = 0.9999$$

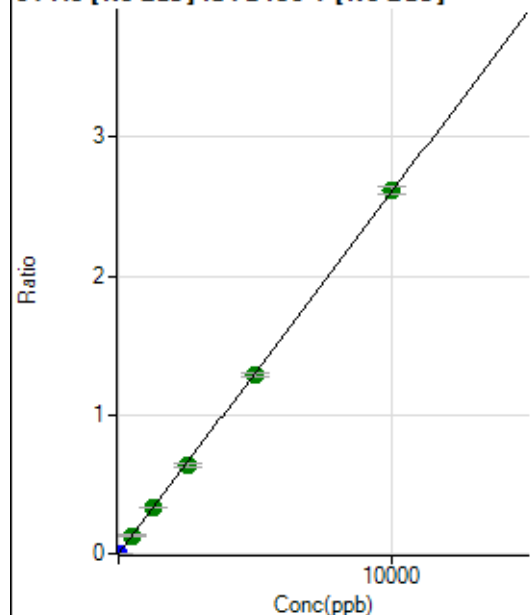
$$DL = 0.0239$$

$$BEC = 0.02528$$

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	148.89	0.0000	P	6.2
2	☐	5.000	5.530	18257.03	0.0015	P	3.4
3	☐	500.000	495.405	1671111.12	0.1291	A	4.8
4	☐	1250.000	1270.235	4098863.83	0.3309	A	1.6
5	☐	2500.000	2460.503	8153511.48	0.6409	A	5.1
6	☐	5000.000	4947.553	16056618.10	1.2888	A	2.0
7	☐	10000.000	10033.798	32318798.68	2.6136	A	2.0
8	☐			9825.65	0.0009	P	13.0

$$y = 2.6048\text{E-}004 * x + 1.1872\text{E-}005$$

$$R = 1.0000$$

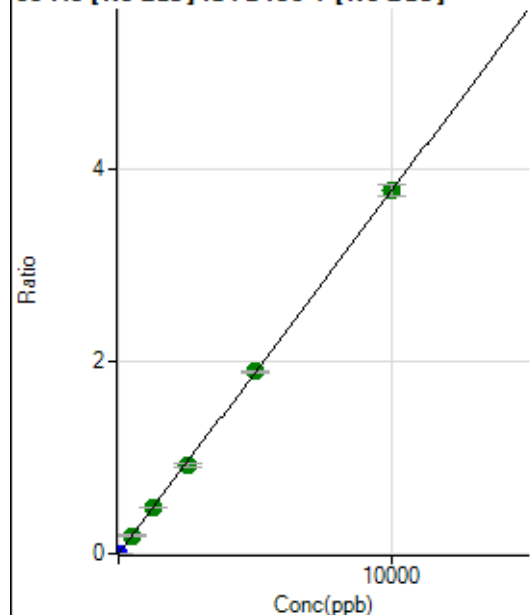
$$DL = 0.008538$$

$$BEC = 0.04558$$

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	21.11	0.0000	P	18.2
2	☐	5.000	4.755	22559.68	0.0018	P	2.1
3	☐	500.000	499.785	2440137.67	0.1884	A	3.7
4	☐	1250.000	1269.446	5928399.43	0.4786	A	0.7
5	☐	2500.000	2459.908	11798997.05	0.9274	A	4.6
6	☐	5000.000	5012.192	23544420.48	1.8896	A	1.5
7	☐	10000.000	10001.507	46622567.64	3.7706	A	3.1
8	☐			13763.29	0.0012	P	11.9

$$y = 3.7701\text{E-}004 * x + 1.6837\text{E-}006$$

$$R = 1.0000$$

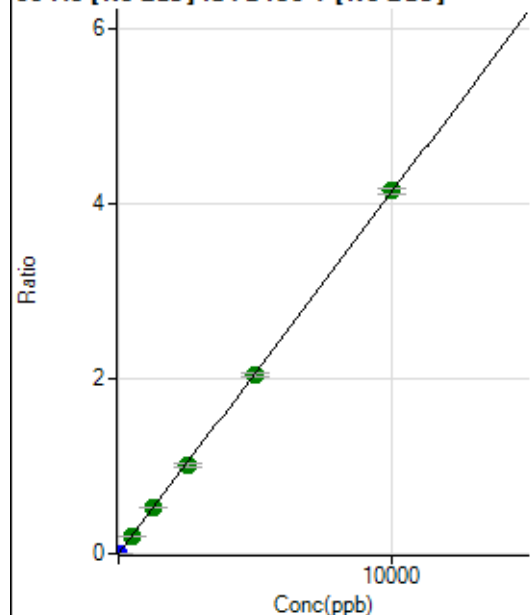
$$DL = 0.002434$$

$$BEC = 0.004466$$

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	91.11	0.0000	P	32.0
2	☐	5.000	4.767	24831.12	0.0020	P	0.5
3	☐	500.000	494.224	2641850.54	0.2040	A	4.1
4	☐	1250.000	1260.877	6446923.58	0.5205	A	0.9
5	☐	2500.000	2451.795	12878102.31	1.0121	A	3.8
6	☐	5000.000	4944.460	25430803.51	2.0410	A	1.3
7	☐	10000.000	10038.750	51240744.24	4.1439	A	1.9
8	☐			30627.95	0.0027	P	9.5

$$y = 4.1279\text{E-}004 * x + 7.2514\text{E-}006$$

$$R = 1.0000$$

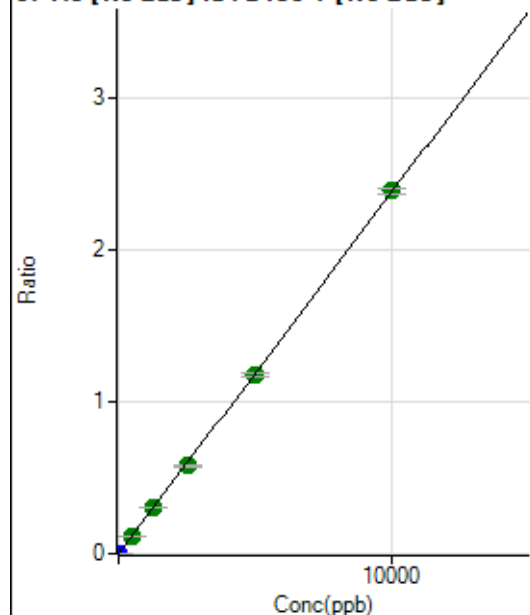
$$DL = 0.01684$$

$$BEC = 0.01757$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	56.5
2	☐	5.000	4.686	14011.24	0.0011	P	0.9
3	☐	500.000	491.887	1513838.52	0.1169	A	3.3
4	☐	1250.000	1264.438	3721858.55	0.3005	A	0.3
5	☐	2500.000	2426.055	7335102.67	0.5765	A	4.1
6	☐	5000.000	4939.045	14622544.64	1.1737	A	2.5
7	☐	10000.000	10047.565	29523540.67	2.3876	A	1.9
8	☐			7908.92	0.0007	P	17.6

$$y = 2.3763\text{E-}004 * x + 7.0716\text{E-}007$$

$$R = 0.9999$$

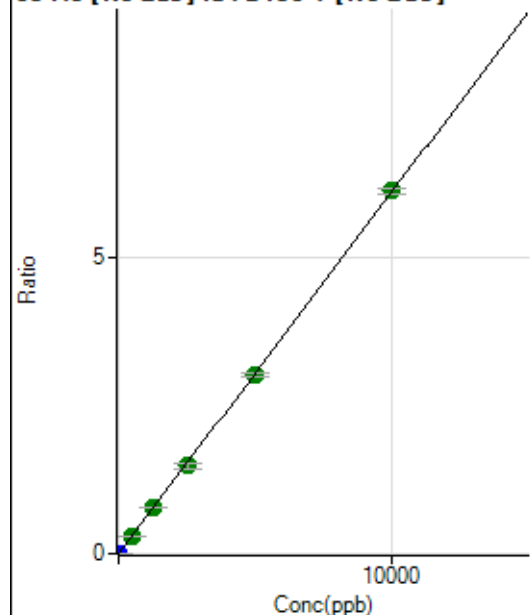
$$DL = 0.005048$$

$$BEC = 0.002976$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	34.44	0.0000	P	53.5
2	☐	5.000	4.639	35573.25	0.0028	P	2.3
3	☐	500.000	496.188	3916737.09	0.3023	A	1.9
4	☐	1250.000	1267.685	9568586.73	0.7724	A	1.1
5	☐	2500.000	2422.886	18782007.36	1.4763	A	4.7
6	☐	5000.000	4951.393	37588078.05	3.0170	A	2.6
7	☐	10000.000	10041.562	75659331.10	6.1185	A	1.7
8	☐			19008.62	0.0017	P	24.8

$$y = 6.0932\text{E-}004 * x + 2.7476\text{E-}006$$

$$R = 0.9999$$

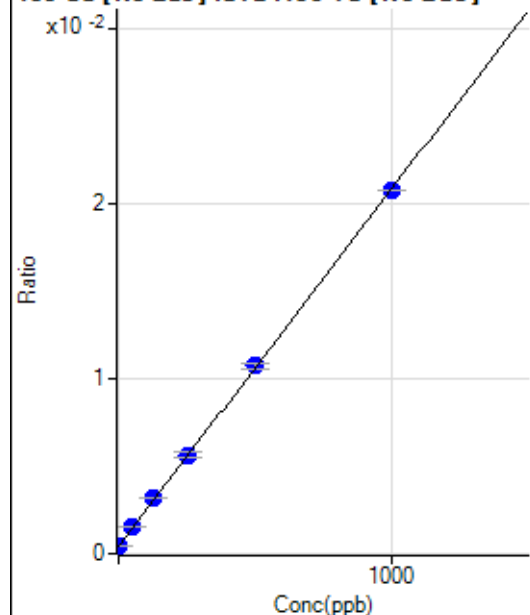
$$DL = 0.007234$$

$$BEC = 0.004509$$

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	5108.73	0.0004	P	2.1
2	☐	1.000	1.609	5487.76	0.0005	P	2.9
3	☐	50.000	53.420	18586.44	0.0015	P	3.8
4	☐	125.000	135.874	37540.75	0.0032	P	2.3
5	☐	250.000	255.593	68298.60	0.0056	P	5.0
6	☐	500.000	504.136	128033.16	0.0107	P	2.9
7	☐	1000.000	995.003	246055.68	0.0208	P	0.2
8	☐			4975.35	0.0005	P	1.1

$$y = 2.0427\text{E-}005 * x + 4.2883\text{E-}004$$

$$R = 0.9999$$

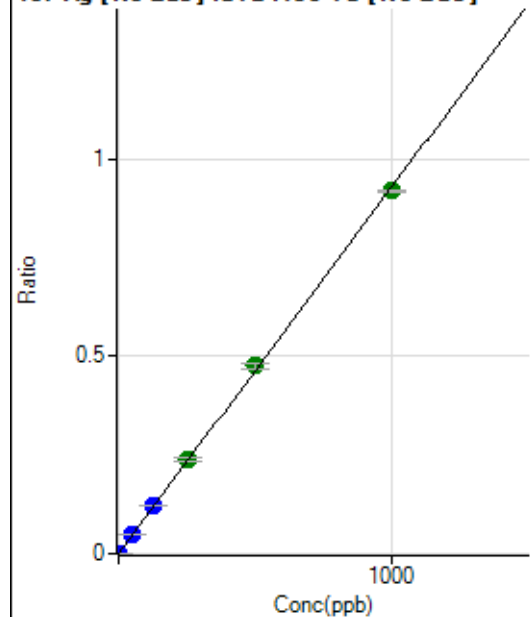
$$DL = 1.299$$

$$BEC = 20.99$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.44	0.0000	P	28.2
2	☐	1.000	1.017	11285.59	0.0009	P	0.5
3	☐	50.000	52.478	595417.73	0.0487	P	5.1
4	☐	125.000	132.385	1439561.78	0.1229	P	1.7
5	☐	250.000	258.440	2899265.86	0.2399	A	5.0
6	☐	500.000	512.711	5679272.69	0.4758	A	3.5
7	☐	1000.000	990.487	10898012.68	0.9193	A	0.8
8	☐			5115.41	0.0005	P	13.3

$$y = 9.2809\text{E-}004 * x + 5.4049\text{E-}006$$

$$R = 0.9998$$

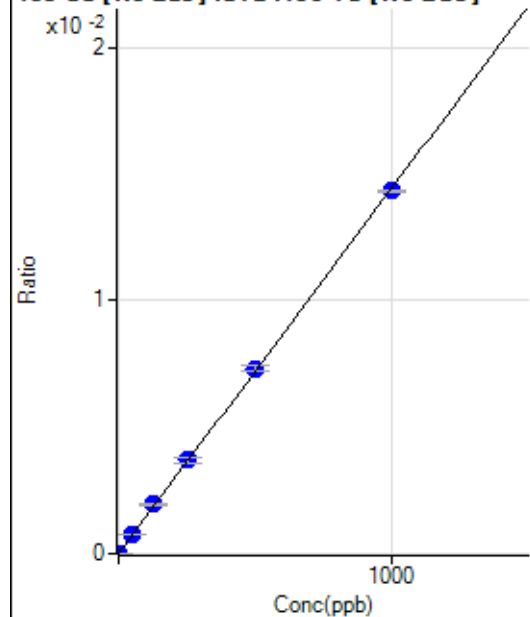
$$DL = 0.004919$$

$$BEC = 0.005824$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	54.3
2	☐	1.000	0.952	182.22	0.0000	P	9.3
3	☐	50.000	53.236	9412.02	0.0008	P	5.0
4	☐	125.000	135.482	22928.21	0.0020	P	3.3
5	☐	250.000	256.348	44733.32	0.0037	P	5.8
6	☐	500.000	506.412	87257.20	0.0073	P	2.9
7	☐	1000.000	993.735	170060.88	0.0143	P	0.4
8	☐			108.89	0.0000	P	20.1

$$y = 1.4433\text{E-}005 * x + 1.5885\text{E-}006$$

$$R = 0.9999$$

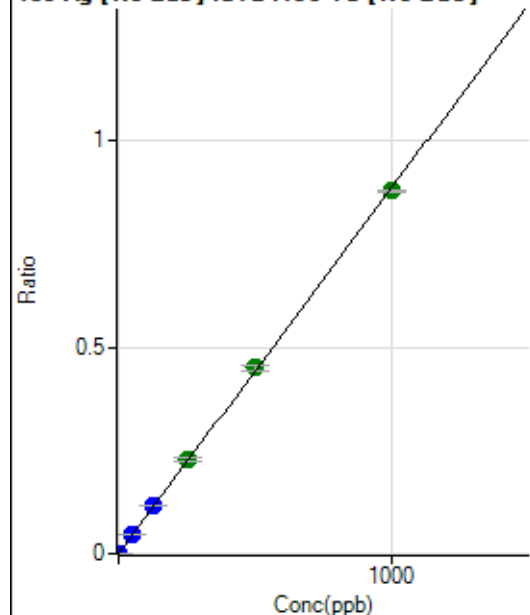
$$DL = 0.1793$$

$$BEC = 0.1101$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	25.1
2	☐	1.000	1.029	10828.60	0.0009	P	0.9
3	☐	50.000	52.202	564600.93	0.0462	P	4.8
4	☐	125.000	131.462	1362695.14	0.1163	P	1.7
5	☐	250.000	258.815	2768605.83	0.2290	A	3.8
6	☐	500.000	509.260	5377593.63	0.4506	A	3.2
7	☐	1000.000	992.248	10407473.80	0.8779	A	0.8
8	☐			4816.41	0.0004	P	15.4

$$y = 8.8474\text{E-}004 * x + 6.5343\text{E-}007$$

$$R = 0.9999$$

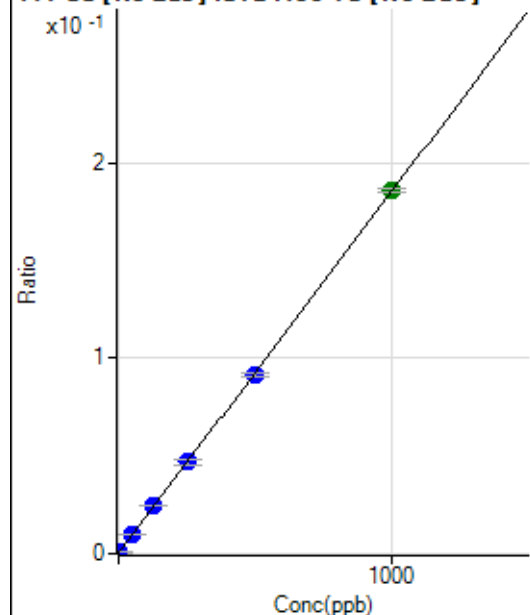
$$DL = 0.0005566$$

$$BEC = 0.0007386$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3567.33	0.0003	P	1.9
2	☐	1.000	1.121	6022.97	0.0005	P	3.1
3	☐	50.000	51.564	120231.30	0.0098	P	4.6
4	☐	125.000	131.513	288441.29	0.0246	P	1.1
5	☐	250.000	251.275	565173.11	0.0468	P	5.8
6	☐	500.000	493.261	1092288.07	0.0915	P	2.9
7	☐	1000.000	1002.158	2200814.89	0.1856	A	1.1
8	☐			4219.89	0.0004	P	2.9

$$y = 1.8493\text{E-}004 * x + 2.9944\text{E-}004$$

$$R = 0.9999$$

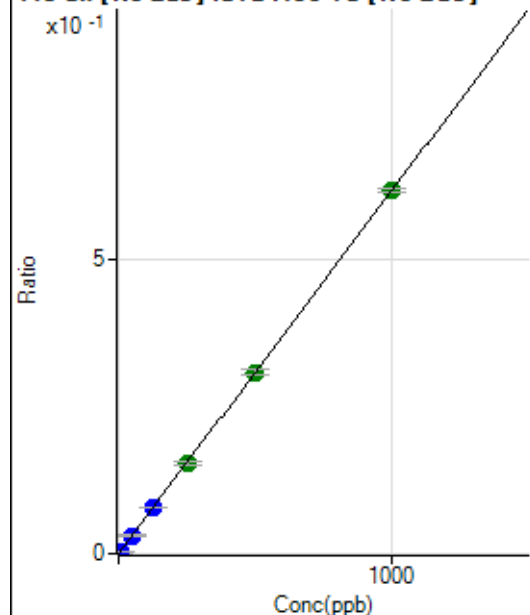
$$DL = 0.09449$$

$$BEC = 1.619$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	798.92	0.0001	P	4.9
2	☐	5.000	5.478	40857.88	0.0034	P	0.3
3	☐	50.000	49.197	370785.70	0.0303	P	5.0
4	☐	125.000	125.991	908878.38	0.0776	P	2.0
5	☐	250.000	251.082	1868182.96	0.1545	A	4.4
6	☐	500.000	498.749	3662870.78	0.3069	A	3.2
7	☐	1000.000	1000.269	7296671.56	0.6154	A	1.0
8	☐			8401.41	0.0008	P	3.6

$$y = 6.1520E-004 * x + 6.7044E-005$$

$$R = 1.0000$$

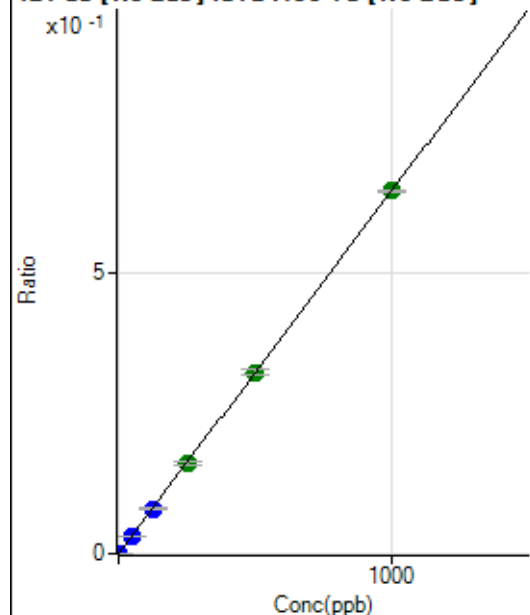
$$DL = 0.01613$$

$$BEC = 0.109$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	48.6
2	☐	2.000	1.906	14662.03	0.0012	P	2.6
3	☐	50.000	48.018	379318.78	0.0310	P	4.8
4	☐	125.000	124.066	939250.29	0.0802	P	1.8
5	☐	250.000	247.497	1933291.10	0.1599	A	4.6
6	☐	500.000	500.759	3861725.19	0.3236	A	3.7
7	☐	1000.000	1000.462	7664175.30	0.6465	A	0.7
8	☐			4866.43	0.0004	P	5.9

$$y = 6.4617E-004 * x + 1.7753E-006$$

$$R = 1.0000$$

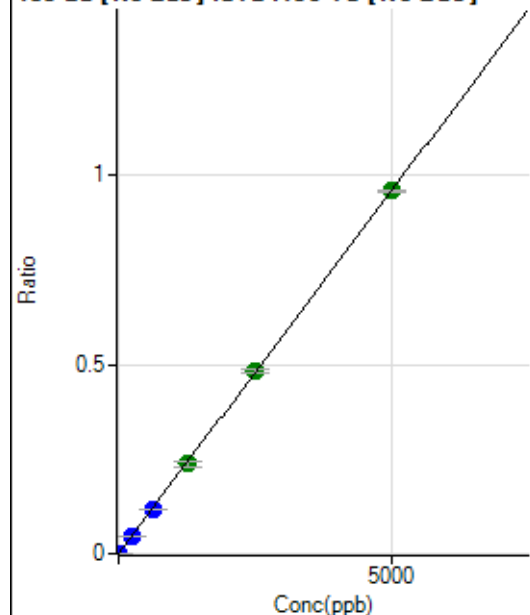
$$DL = 0.004007$$

$$BEC = 0.002747$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	37.3
2	☐	10.000	9.212	20998.94	0.0018	P	1.9
3	☐	250.000	236.525	553891.30	0.0453	P	5.3
4	☐	625.000	608.763	1366391.88	0.1166	P	2.1
5	☐	1250.000	1233.676	2856268.05	0.2364	A	5.8
6	☐	2500.000	2513.900	5748587.62	0.4816	A	2.5
7	☐	5000.000	4999.836	11356316.15	0.9579	A	0.4
8	☐			6452.63	0.0006	P	7.3

$$y = 1.9158\text{E-}004 * x + 1.8626\text{E-}006$$

$$R = 1.0000$$

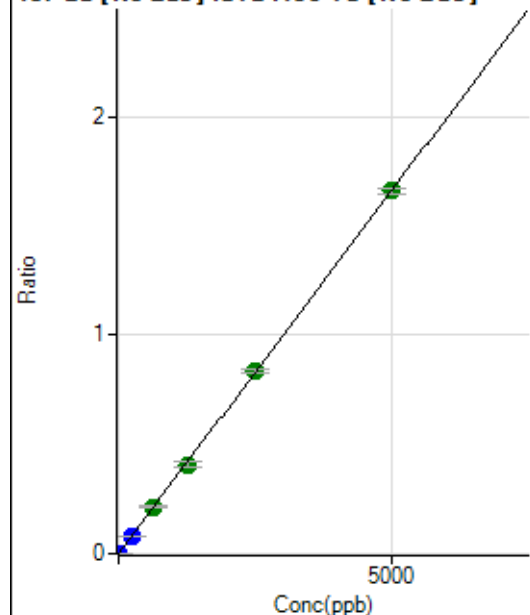
$$DL = 0.01087$$

$$BEC = 0.009722$$

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	33.34	0.0000	P	17.8
2	☐	10.000	9.183	36301.80	0.0031	P	0.5
3	☐	250.000	236.843	961872.54	0.0787	P	5.1
4	☐	625.000	645.773	2513734.98	0.2146	A	1.5
5	☐	1250.000	1228.512	4933668.33	0.4082	A	5.0
6	☐	2500.000	2507.357	9943775.89	0.8330	A	2.2
7	☐	5000.000	4999.756	19695360.40	1.6611	A	1.8
8	☐			10849.80	0.0010	P	9.9

$$y = 3.3224\text{E-}004 * x + 2.8001\text{E-}006$$

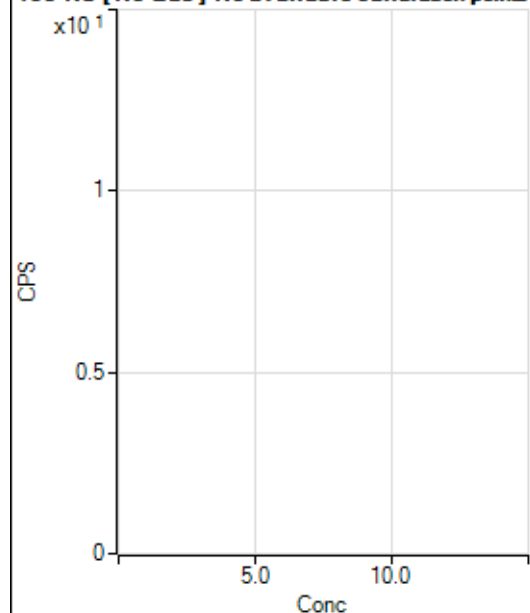
$$R = 1.0000$$

$$DL = 0.004512$$

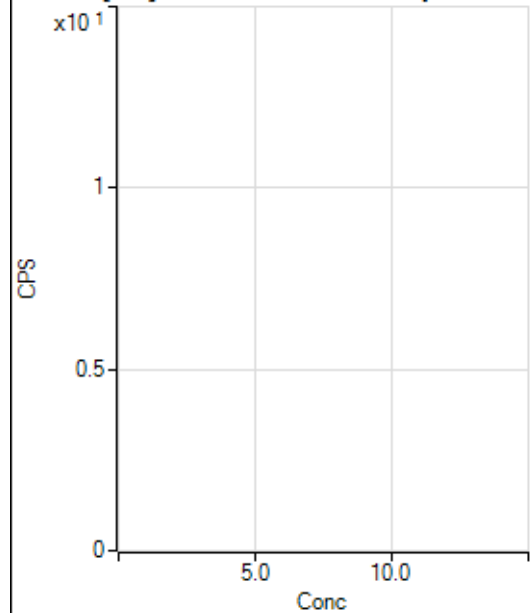
$$BEC = 0.008428$$

Weight: <None>

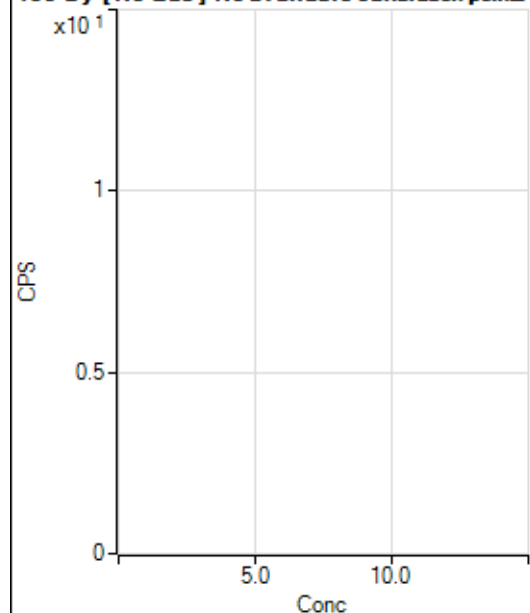
Min Conc: 0

150 Nd [No Gas] No available calibration points

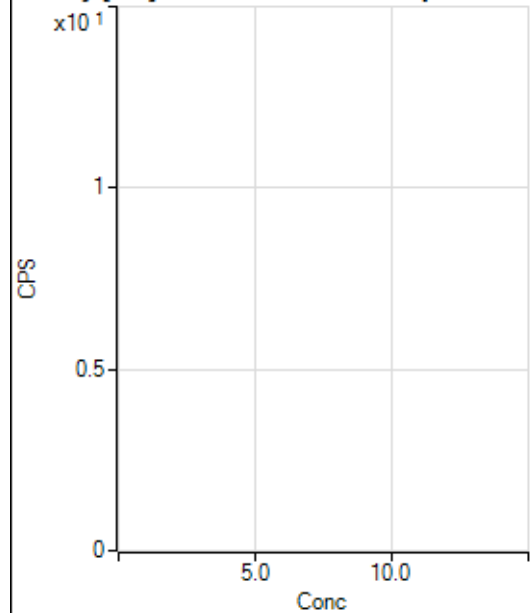
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	25.0
2	☐			12.22		P	15.7
3	☐			103.33		P	6.5
4	☐			242.23		P	15.7
5	☐			481.13		P	4.2
6	☐			865.59		P	1.9
7	☐			1744.57		P	5.7
8	☐			75.56		P	29.4

150 Nd [He] No available calibration points

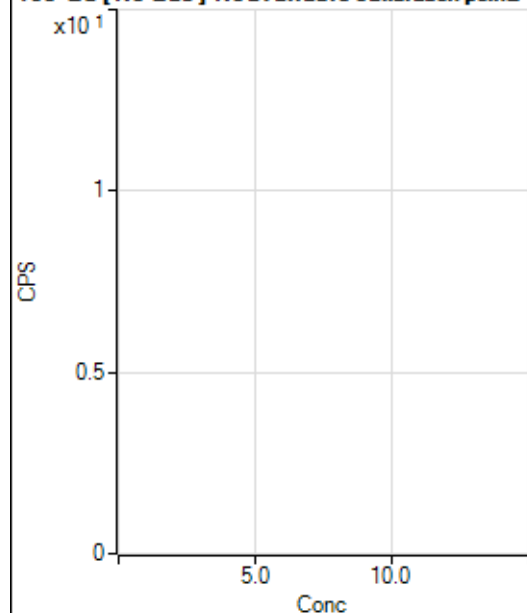
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			10.00		P	88.2
3	☐			27.78		P	34.6
4	☐			40.00		P	14.4
5	☐			97.78		P	5.2
6	☐			151.11		P	12.2
7	☐			336.68		P	5.2
8	☐			43.33		P	30.8

156 Dy [No Gas] No available calibration points

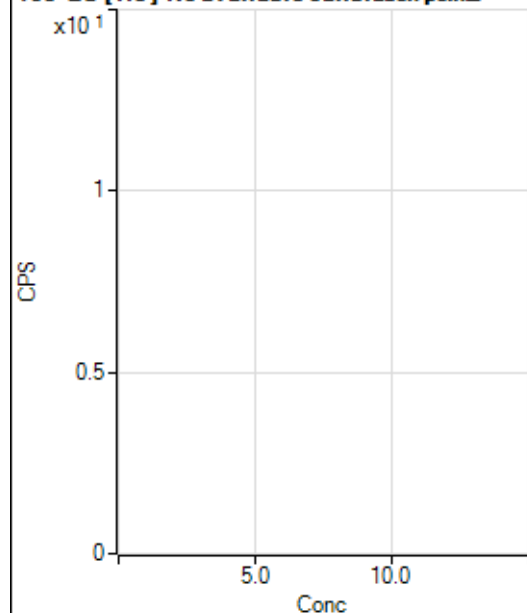
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			8.89		P	43.3
3	☐			42.22		P	12.1
4	☐			132.22		P	35.7
5	☐			227.78		P	10.4
6	☐			343.34		P	5.4
7	☐			710.02		P	8.0
8	☐			1897.92		P	5.0

156 Dy [He] No available calibration points

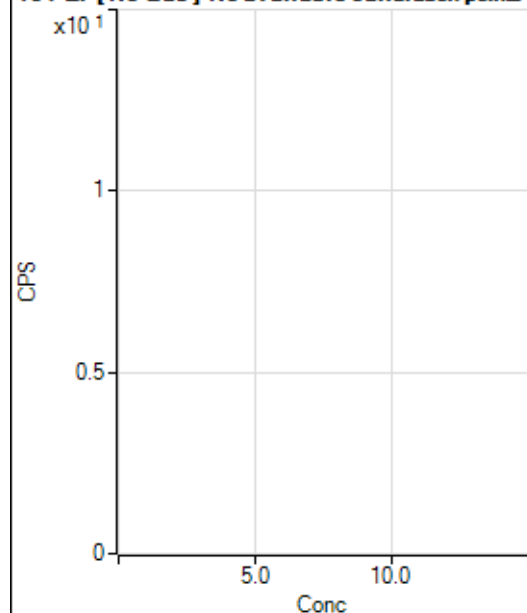
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			7.78		P	107.
3	☐			36.67		P	24.0
4	☐			95.56		P	16.5
5	☐			188.89		P	12.4
6	☐			318.89		P	13.2
7	☐			698.91		P	2.8
8	☐			1226.73		P	3.8

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

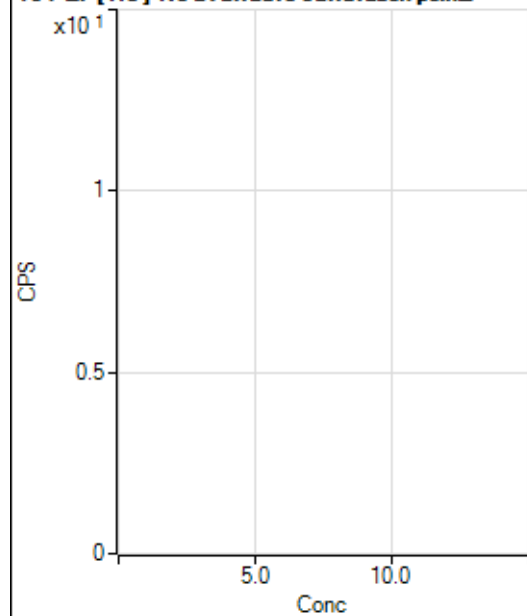
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	60.1
2	☐			55.56		P	22.7
3	☐			70.00		P	37.2
4	☐			125.56		P	13.6
5	☐			185.56		P	5.8
6	☐			316.67		P	5.9
7	☐			628.91		P	9.7
8	☐			2209.08		P	4.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			364.45		P	9.3
2	☐			353.34		P	2.5
3	☐			363.34		P	5.1
4	☐			374.45		P	13.6
5	☐			406.68		P	4.3
6	☐			504.46		P	11.4
7	☐			704.47		P	5.0
8	☐			1719.01		P	7.0

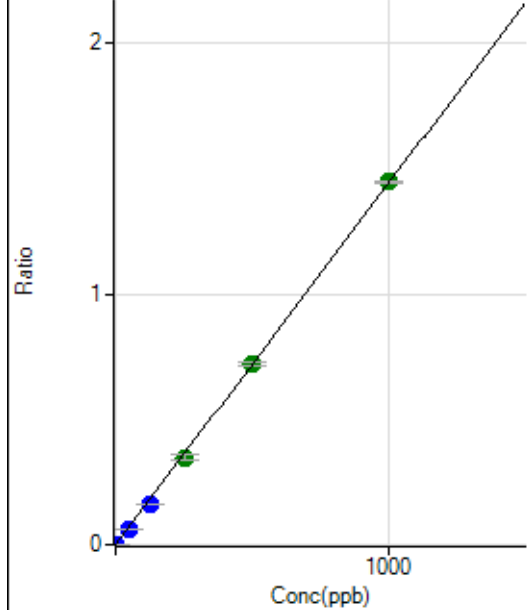
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	26.4
2	☐			81.11		P	18.5
3	☐			87.78		P	11.6
4	☐			86.67		P	20.0
5	☐			125.56		P	12.0
6	☐			173.34		P	10.2
7	☐			191.11		P	16.5
8	☐			177.78		P	4.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	21.3
2	☐			44.45		P	30.3
3	☐			51.11		P	16.4
4	☐			62.22		P	39.5
5	☐			74.44		P	20.2
6	☐			85.56		P	25.9
7	☐			97.78		P	10.4
8	☐			111.12		P	12.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0000	P	20.2
2	☐	1.000	0.861	10018.20	0.0013	P	1.1
3	☐	50.000	43.878	523753.77	0.0632	P	3.5
4	☐	125.000	112.729	1292572.53	0.1624	P	1.1
5	☐	250.000	241.016	2834627.98	0.3471	A	5.6
6	☐	500.000	499.376	5611867.97	0.7192	A	2.0
7	☐	1000.000	1004.398	11060906.64	1.4465	A	0.5
8	☐			2094.64	0.0003	P	30.6

$$y = 0.0014 * x + 9.9439E-006$$

$$R = 0.9999$$

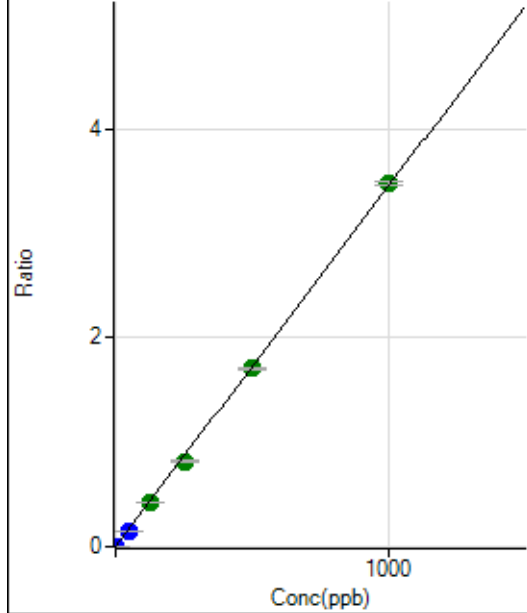
$$DL = 0.004194$$

$$BEC = 0.006905$$

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	165.56	0.0000	P	25.0
2	☐	1.000	0.849	23658.40	0.0030	P	0.6
3	☐	50.000	43.295	1239232.66	0.1495	P	3.3
4	☐	125.000	122.524	3368502.24	0.4231	A	2.4
5	☐	250.000	237.187	6690693.93	0.8191	A	3.9
6	☐	500.000	494.326	13321079.25	1.7071	A	1.1
7	☐	1000.000	1006.685	26583156.55	3.4765	A	1.1
8	☐			4816.53	0.0008	P	31.6

$$y = 0.0035 * x + 2.0816E-005$$

$$R = 0.9999$$

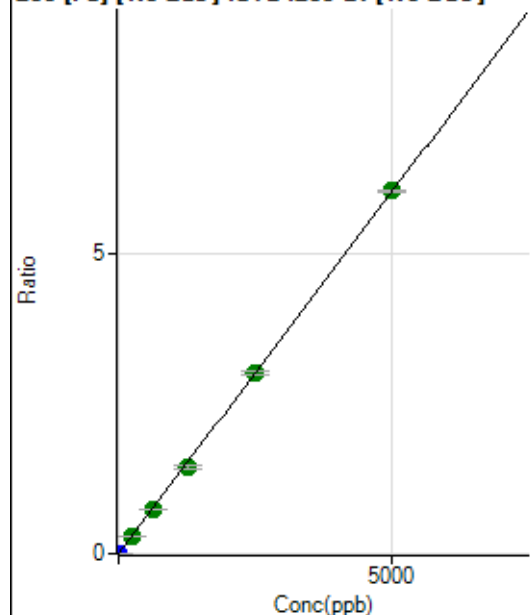
$$DL = 0.004513$$

$$BEC = 0.006028$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	445.57	0.0001	P	6.4
2	☐	1.000	0.853	8663.95	0.0011	P	0.5
3	☐	250.000	239.232	2385212.55	0.2878	A	3.7
4	☐	625.000	613.883	5879320.47	0.7385	A	1.8
5	☐	1250.000	1192.961	11722454.13	1.4351	A	3.8
6	☐	2500.000	2495.250	23421790.48	3.0017	A	2.6
7	☐	5000.000	5018.563	46161898.76	6.0371	A	0.7
8	☐			12008.82	0.0019	P	15.9

$$y = 0.0012 * x + 5.6093E-005$$

$$R = 0.9999$$

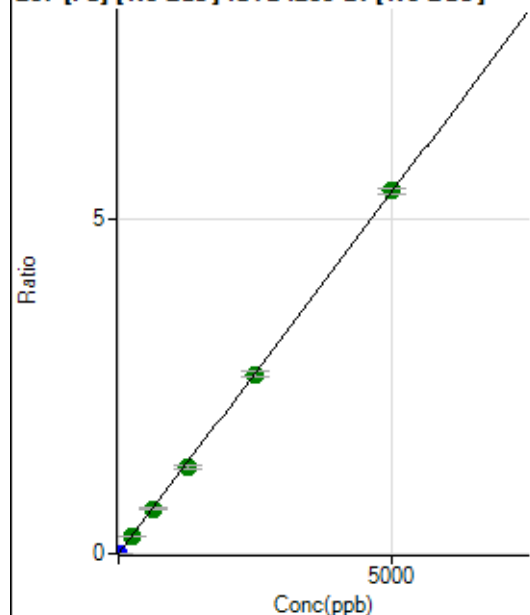
$$DL = 0.00896$$

$$BEC = 0.04663$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	368.90	0.0000	P	4.1
2	☐	1.000	0.826	7518.81	0.0009	P	1.1
3	☐	250.000	241.199	2158819.10	0.2605	A	2.5
4	☐	625.000	623.459	5359215.82	0.6732	A	0.8
5	☐	1250.000	1203.855	10616038.24	1.2999	A	4.5
6	☐	2500.000	2486.048	20944792.19	2.6843	A	2.5
7	☐	5000.000	5019.145	41434411.33	5.4193	A	1.7
8	☐			10605.45	0.0017	P	18.5

$$y = 0.0011 * x + 4.6445E-005$$

$$R = 0.9999$$

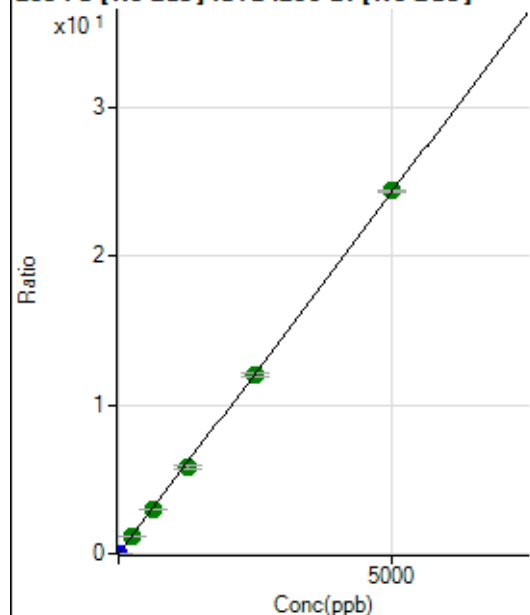
$$DL = 0.005272$$

$$BEC = 0.04302$$

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	1742.29	0.0002	P	8.5
2	☐	1.000	0.843	34546.35	0.0043	P	0.5
3	☐	250.000	240.236	9673088.80	1.1672	A	3.3
4	☐	625.000	616.650	23849169.58	2.9958	A	0.6
5	☐	1250.000	1197.745	47523182.55	5.8186	A	4.2
6	☐	2500.000	2478.834	93962571.38	12.0419	A	1.8
7	☐	5000.000	5025.179	186652815.2	24.4114	A	0.8
8	☐			48409.30	0.0077	P	15.5

$$y = 0.0049 * x + 2.1929E-004$$

$$R = 0.9999$$

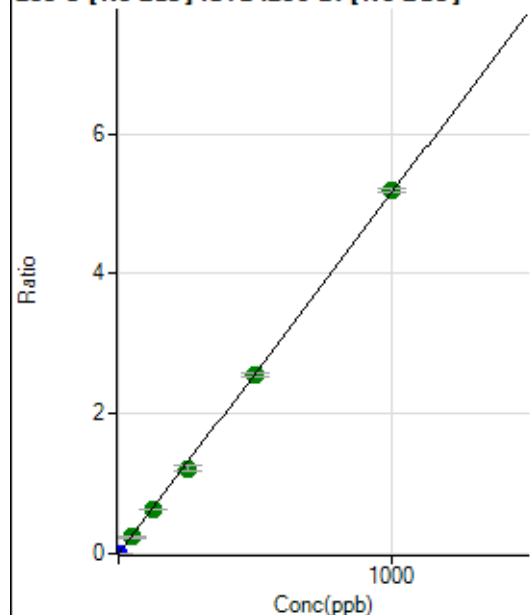
$$DL = 0.01157$$

$$BEC = 0.04514$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	74.7
2	☐	1.000	0.799	33006.81	0.0041	P	1.2
3	☐	50.000	45.976	1963517.59	0.2369	A	3.2
4	☐	125.000	121.248	4974496.73	0.6248	A	1.1
5	☐	250.000	237.170	9979715.34	1.2222	A	5.8
6	☐	500.000	496.386	19959999.42	2.5581	A	2.7
7	☐	1000.000	1005.685	39628315.24	5.1827	A	1.0
8	☐			5602.44	0.0009	P	27.7

$$y = 0.0052 * x + 1.3926E-006$$

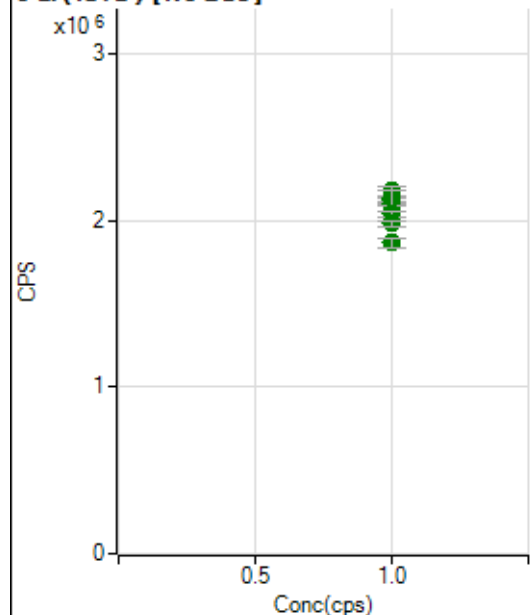
$$R = 0.9999$$

$$DL = 0.0006058$$

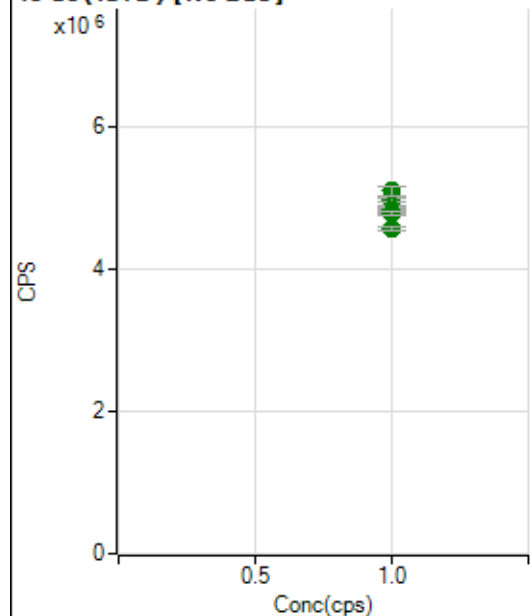
$$BEC = 0.0002702$$

Weight: <None>

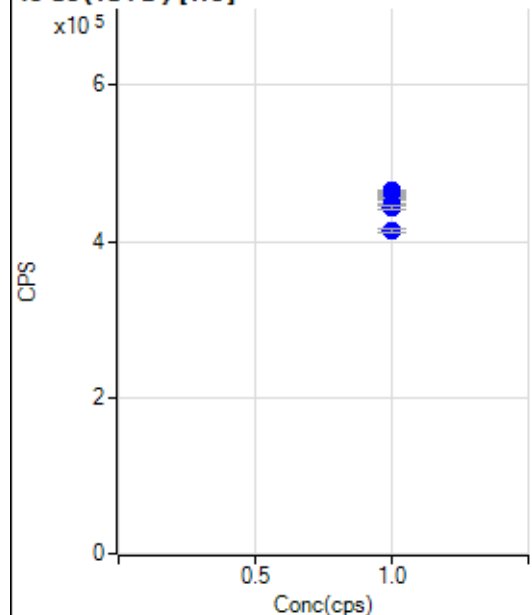
Min Conc: 0

6 Li (ISTD) [No Gas]

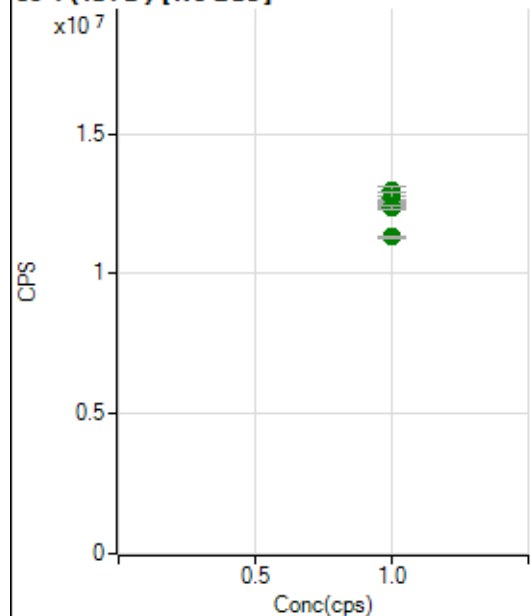
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2120121.98		A	1.7
2	☐	1.000		2116761.36		A	1.6
3	☐	1.000		2177759.74		A	2.6
4	☐	1.000		2103501.01		A	1.2
5	☐	1.000		2138782.22		A	4.4
6	☐	1.000		2037745.61		A	1.4
7	☐	1.000		1979672.18		A	1.4
8	☐	1.000		1866478.76		A	2.8

45 Sc (ISTD) [No Gas]

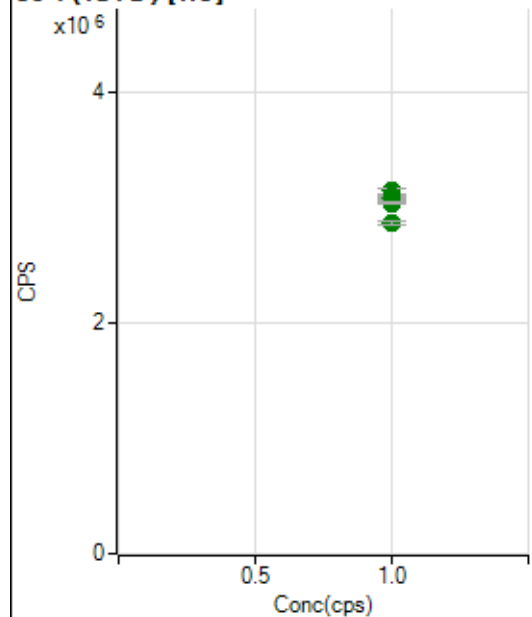
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4976427.39		A	2.0
2	☐	1.000		4963277.56		A	0.7
3	☐	1.000		5092000.82		A	2.4
4	☐	1.000		4832569.06		A	0.6
5	☐	1.000		4833531.28		A	2.2
6	☐	1.000		4797375.14		A	2.1
7	☐	1.000		4776433.64		A	0.8
8	☐	1.000		4558688.75		A	0.9

45 Sc (ISTD) [He]

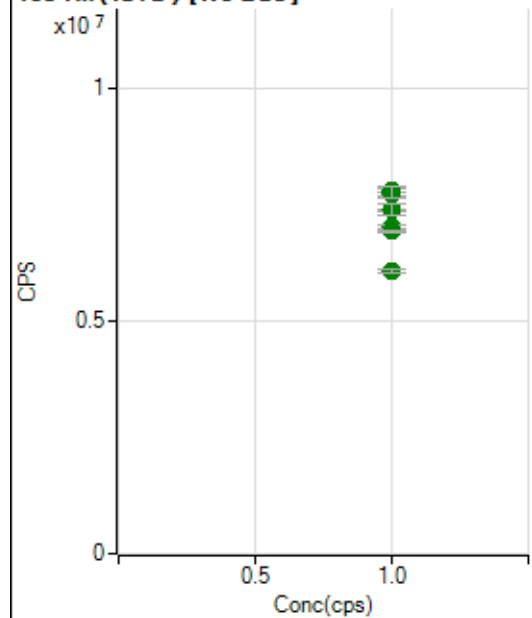
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		464613.76		P	0.3
2	☐	1.000		460249.39		P	0.4
3	☐	1.000		454608.92		P	0.9
4	☐	1.000		443411.33		P	0.9
5	☐	1.000		448100.97		P	0.5
6	☐	1.000		444687.98		P	1.8
7	☐	1.000		443372.04		P	1.2
8	☐	1.000		413492.01		P	0.9

89 Y (ISTD) [No Gas]

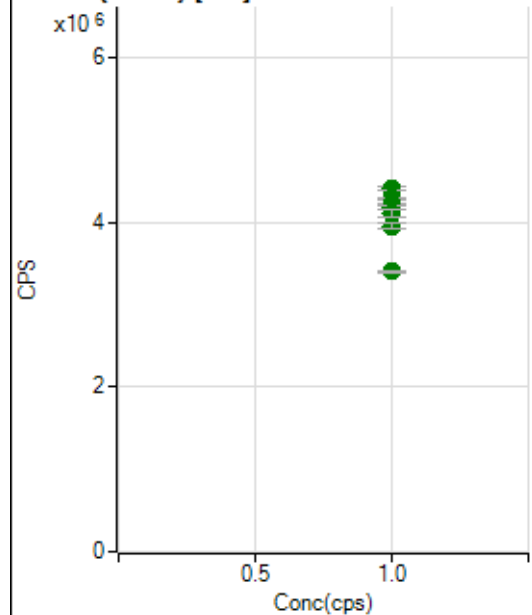
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12537308.42		A	1.6
2	☐	1.000		12573911.89		A	1.0
3	☐	1.000		12959214.80		A	2.8
4	☐	1.000		12387003.84		A	0.9
5	☐	1.000		12732003.01		A	2.4
6	☐	1.000		12461873.57		A	1.9
7	☐	1.000		12366984.96		A	1.0
8	☐	1.000		11318728.30		A	0.8

89 Y(ISTD) [He]

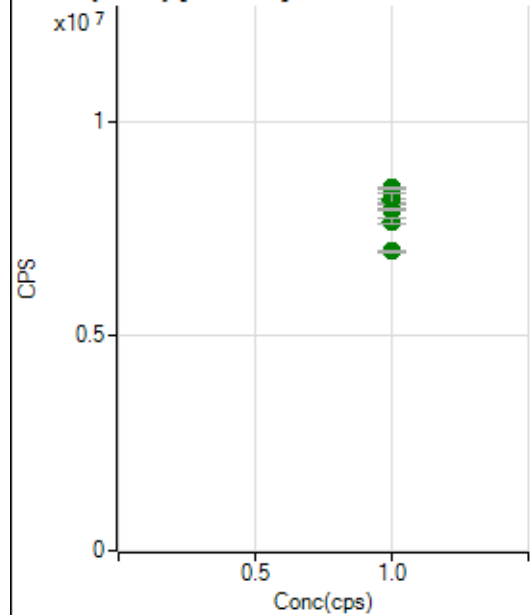
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3149714.81		A	1.8
2	☐	1.000		3105454.85		A	0.8
3	☐	1.000		3082936.38		A	0.9
4	☐	1.000		3052549.47		A	0.4
5	☐	1.000		3067460.33		A	0.7
6	☐	1.000		3041339.09		A	0.7
7	☐	1.000		3050631.27		A	0.6
8	☐	1.000		2874694.61		A	0.9

103 Rh(ISTD) [No Gas]

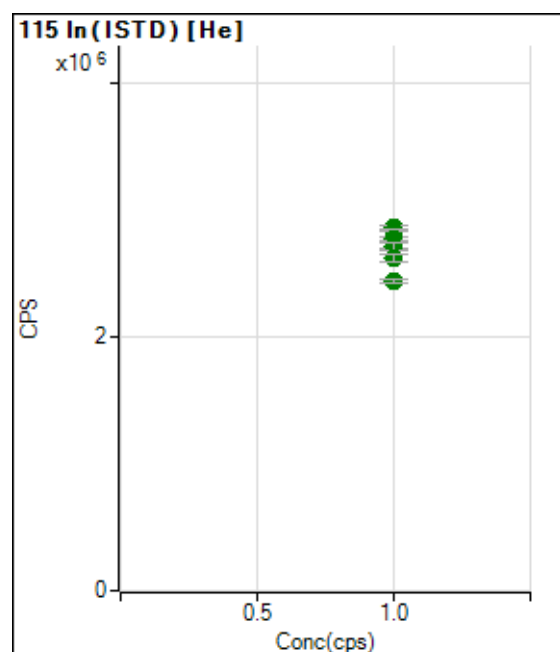
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7798781.55		A	0.9
2	☐	1.000		7724051.62		A	1.1
3	☐	1.000		7771545.86		A	2.9
4	☐	1.000		7380461.97		A	0.5
5	☐	1.000		7396539.13		A	3.0
6	☐	1.000		7045943.16		A	1.2
7	☐	1.000		6933503.23		A	0.3
8	☐	1.000		6074903.52		A	1.3

103 Rh (ISTD) [He]

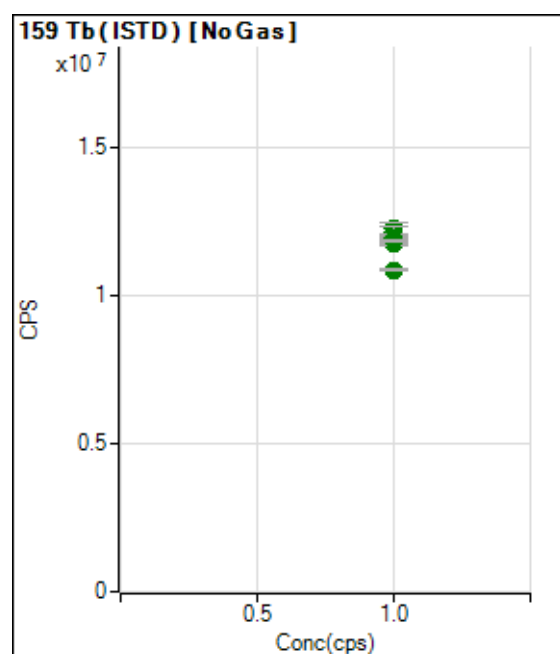
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4401800.67		A	1.0
2	☐	1.000		4382939.73		A	0.4
3	☐	1.000		4287068.03		A	0.8
4	☐	1.000		4218455.43		A	0.6
5	☐	1.000		4166223.93		A	1.2
6	☐	1.000		4100921.39		A	2.1
7	☐	1.000		3949379.46		A	2.0
8	☐	1.000		3401238.56		A	0.4

115 In (ISTD) [No Gas]

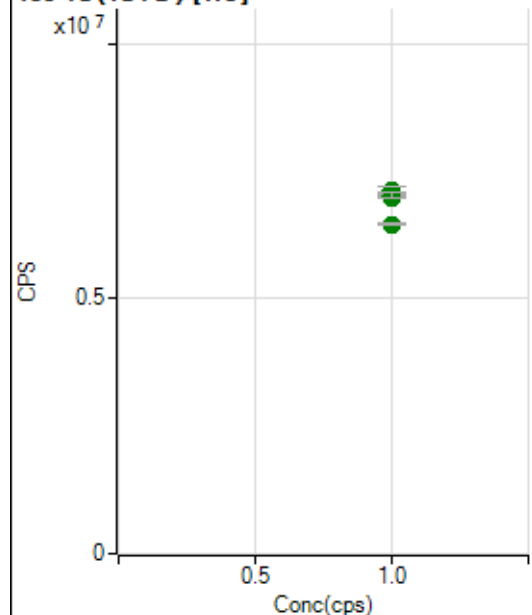
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8143508.15		A	1.5
2	☐	1.000		8207378.02		A	0.2
3	☐	1.000		8450114.34		A	0.8
4	☐	1.000		8070742.63		A	0.6
5	☐	1.000		8189590.23		A	3.3
6	☐	1.000		7944007.49		A	0.4
7	☐	1.000		7674290.05		A	1.4
8	☐	1.000		6969568.06		A	1.0



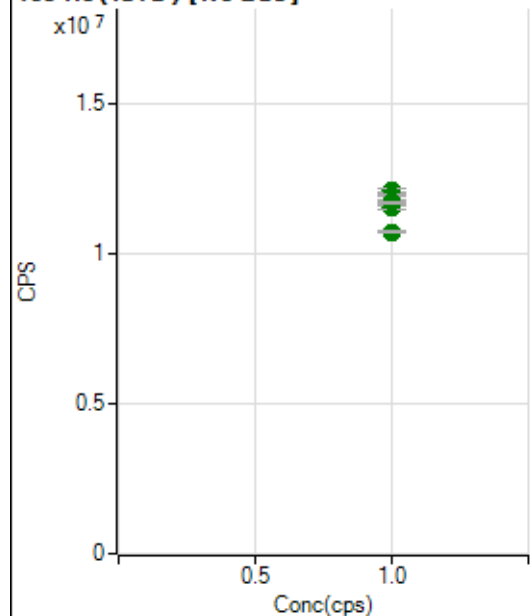
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2857219.23		A	0.9
2	☐	1.000		2838234.12		A	0.9
3	☐	1.000		2773940.25		A	0.9
4	☐	1.000		2718223.60		A	1.5
5	☐	1.000		2756362.55		A	0.4
6	☐	1.000		2704347.32		A	2.2
7	☐	1.000		2615328.94		A	2.4
8	☐	1.000		2441596.63		A	1.0



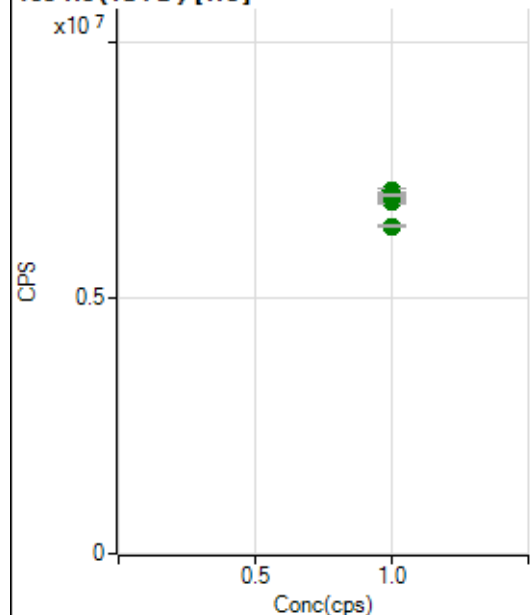
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11914006.49		A	0.6
2	☐	1.000		11887530.66		A	0.7
3	☐	1.000		12239142.46		A	3.8
4	☐	1.000		11716516.08		A	0.6
5	☐	1.000		12101938.99		A	3.6
6	☐	1.000		11939555.66		A	1.7
7	☐	1.000		11855609.68		A	0.8
8	☐	1.000		10865423.38		A	0.3

159 Tb (ISTD) [He]

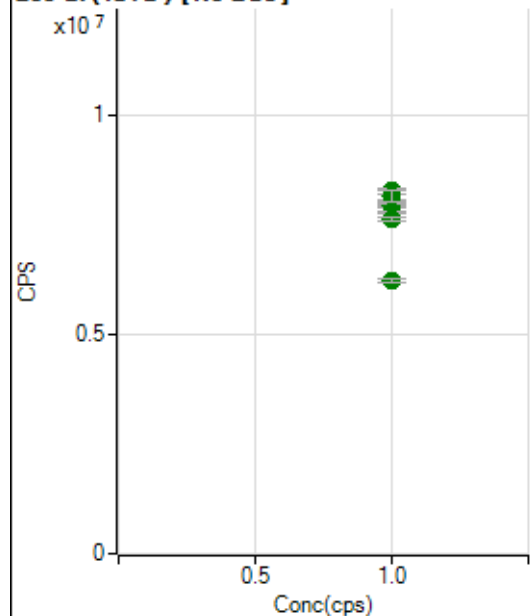
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7028706.63		A	1.3
2	☐	1.000		7015587.88		A	0.5
3	☐	1.000		6979010.17		A	0.1
4	☐	1.000		6989299.89		A	0.9
5	☐	1.000		7091403.09		A	0.2
6	☐	1.000		7111888.92		A	2.0
7	☐	1.000		7024099.97		A	1.6
8	☐	1.000		6460858.93		A	0.8

165 Ho (ISTD) [No Gas]

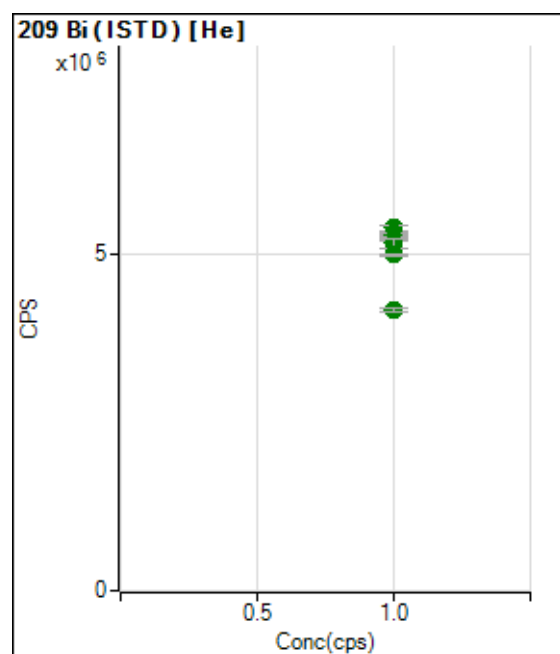
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11525273.58		A	1.5
2	☐	1.000		11555126.08		A	2.0
3	☐	1.000		12081144.40		A	1.7
4	☐	1.000		11704243.44		A	0.8
5	☐	1.000		11914183.99		A	2.4
6	☐	1.000		11922298.85		A	0.6
7	☐	1.000		11694203.30		A	0.7
8	☐	1.000		10719804.49		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6984098.51		A	1.2
2	☐	1.000		6876716.57		A	0.9
3	☐	1.000		6952873.30		A	1.3
4	☐	1.000		6973099.20		A	0.1
5	☐	1.000		7102854.62		A	1.1
6	☐	1.000		7030796.49		A	1.3
7	☐	1.000		7012368.85		A	0.3
8	☐	1.000		6418295.94		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7940860.16		A	1.0
2	☐	1.000		8009581.20		A	1.4
3	☐	1.000		8290390.71		A	1.8
4	☐	1.000		7961068.56		A	1.0
5	☐	1.000		8173621.47		A	2.7
6	☐	1.000		7803549.47		A	0.7
7	☐	1.000		7646467.38		A	0.9
8	☐	1.000		6238833.93		A	1.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5379478.70		A	1.3
2	☐	1.000		5294954.30		A	0.1
3	☐	1.000		5294309.05		A	0.8
4	☐	1.000		5278602.98		A	1.2
5	☐	1.000		5223867.42		A	1.1
6	☐	1.000		5146849.16		A	3.2
7	☐	1.000		4985063.57		A	0.7
8	☐	1.000		4163502.99		A	1.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7032523MS.b
Acq. Date-Time 2023-03-25 16:33:34
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		11147	111472.97			0.494	5.000
24		126275	1262752.76			0.676	5.000
25		17428	174279.04			0.640	5.000
26		20199	201994.35			0.401	5.000
59		94842	948421.81			0.324	5.000
113		11323	113232.56			0.391	5.000
115		153899	1538985.80			1.087	5.000
206		41672	416718.55			0.711	5.000
207		38604	386039.62			0.940	5.000
208		95963	959630.46			0.960	5.000
220		0	1.90			50.620	

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

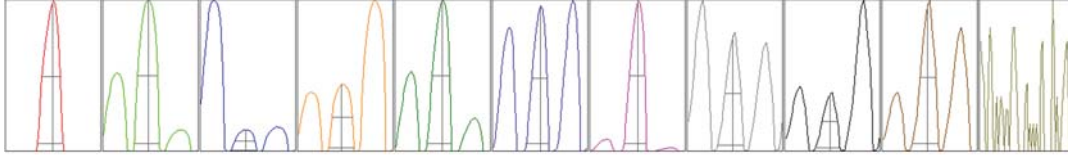
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11075	11208	11153	11190	11110
24	125625	127661	125810	126539	125741
25	17274	17420	17378	17557	17511
26	20104	20219	20243	20300	20131
59	94911	95115	94977	94893	94315
113	11262	11330	11298	11375	11350
115	151819	155030	152346	155324	154974
206	41172	41888	41783	41641	41875
207	38166	39067	38312	38722	38752
208	94432	96202	95868	96550	96764

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	20692.03	9.00	8.90 - 9.10	
24	208780.57	23.95	23.90 - 24.10	
25	28863.45	24.95	24.90 - 25.10	
26	32657.11	25.90	25.90 - 26.10	
59	179122.30	59.00	58.90 - 59.10	
113	24364.42	113.05	112.90 - 113.10	
115	323517.26	115.05	114.90 - 115.10	
206	83669.34	205.95	205.90 - 206.10	
207	77041.32	206.95	206.90 - 207.10	
208	195542.32	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.809	0.900	
24	0.64	0.789	0.900	
25	0.63	0.790	0.900	
26	0.65	0.792	0.900	
59	0.55	0.776	0.900	
113	0.47	0.716	0.900	
115	0.49	0.714	0.900	
206	0.50	0.819	0.900	
207	0.50	0.771	0.900	
208	0.49	0.833	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.7 V	Deflect	16.6 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		33381	333811.52			0.234	
89		62339	623393.95			0.369	
205		32538	325381.81			0.632	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	33519	33359	33329	33360	33340
89	62475	62238	62014	62354	62616
205	32507	32368	32395	32884	32536

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-110.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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