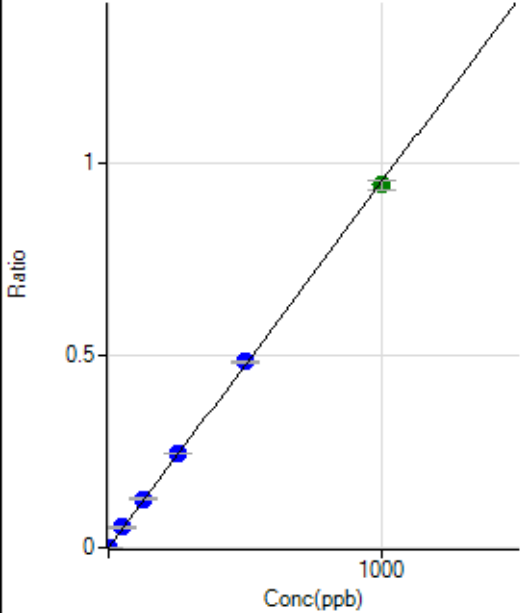


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7080824MS1.b\
 Analysis File: P7080824MS1.batch.bin
 DA Date-Time: 2024-08-08 16:57:59
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-08-08 13:44:46
2	005CALS.d	S02	2024-08-08 13:48:04
3	006CALS.d	S03	2024-08-08 13:51:24
4	007CALS.d	S04	2024-08-08 13:54:28
5	008CALS.d	S05	2024-08-08 13:57:24
6	009CALS.d	S06	2024-08-08 14:00:13
7	010CALS.d	S07	2024-08-08 14:03:00
8	011CALS.d	S08	2024-08-08 14:05:46

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.67	0.0000	P	26.8
2	☐	1.000	1.019	1442.30	0.0010	P	8.0
3	☐	50.000	55.637	75198.59	0.0528	P	6.1
4	☐	125.000	132.973	195889.78	0.1262	P	2.1
5	☐	250.000	257.567	396120.62	0.2444	P	0.7
6	☐	500.000	508.993	801743.36	0.4829	P	1.0
7	☐	1000.000	992.333	1564322.30	0.9414	A	2.7
8	☐			200.00	0.0001	P	20.2

$y = 9.4863E-004 * x + 2.5794E-005$

$R = 0.9999$

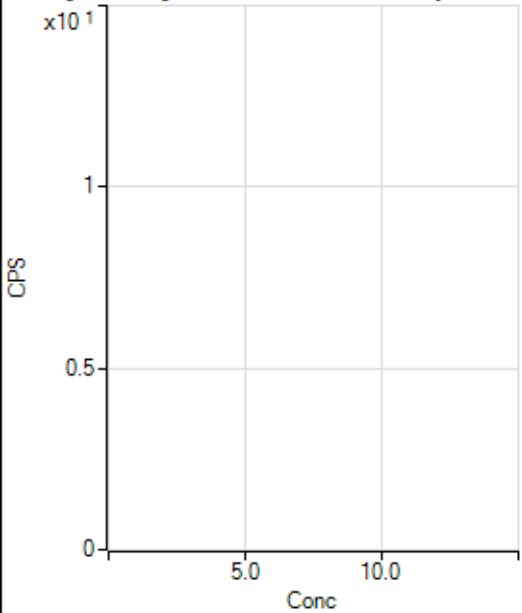
$DL = 0.02187$

$BEC = 0.02719$

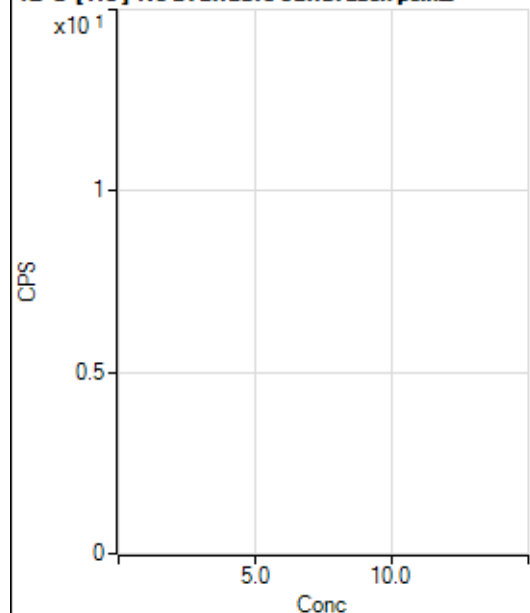
Weight: <None>

Min Conc: 0

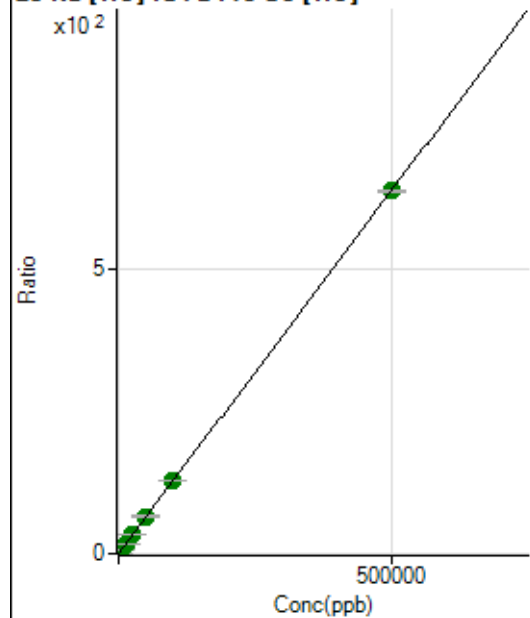
12 C [No Gas] No available calibration points



	Rj 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	16887.11	0.0407	P	1.6
2	☐	500.000	506.905	288185.15	0.6890	P	0.3
3	☐	5000.000	5056.583	2659394.92	6.5078	A	1.1
4	☐	12500.000	12681.427	6385752.55	16.2596	A	1.3
5	☐	25000.000	25678.024	12272885.23	32.8816	A	1.0
6	☐	50000.000	51384.126	24206276.86	65.7584	A	1.9
7	☐	100000.00	101061.56	48794940.38	129.2934	A	0.6
8	☐	500000.00	499610.26	237304514.2	639.0171	A	0.6

$$y = 0.0013 * x + 0.0407$$

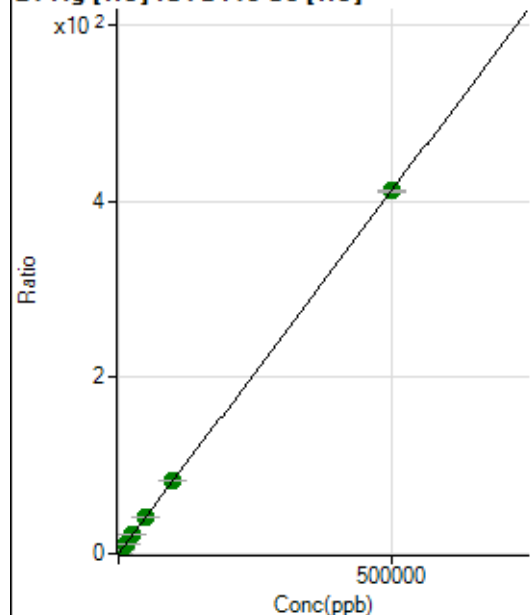
$$R = 1.0000$$

$$DL = 1.484$$

$$BEC = 31.81$$

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	1515.64	0.0037	P	7.0
2	☐	500.000	500.858	174038.71	0.4161	P	1.1
3	☐	5000.000	5054.001	1702168.97	4.1654	A	0.4
4	☐	12500.000	12714.302	4113057.86	10.4733	A	1.9
5	☐	25000.000	25486.016	7834511.20	20.9902	A	0.3
6	☐	50000.000	50671.776	15361152.41	41.7295	A	1.4
7	☐	100000.00	99758.248	31003958.43	82.1498	A	0.2
8	☐	500000.00	499950.97	152884956.6	411.6896	A	0.5

$$y = 8.2345\text{E-}004 * x + 0.0037$$

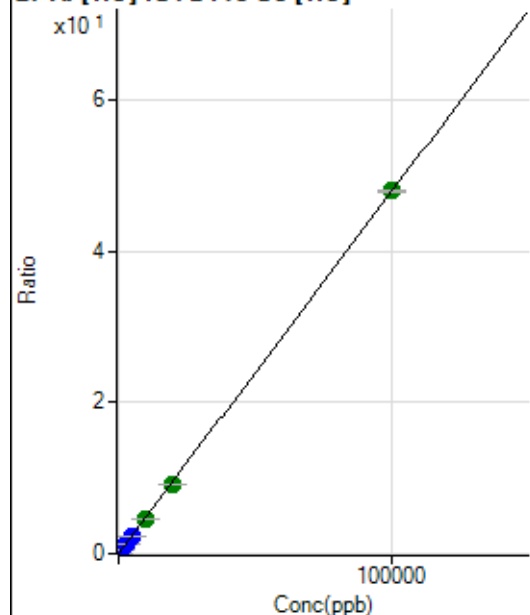
$$R = 1.0000$$

$$DL = 0.9322$$

$$BEC = 4.434$$

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	285.56	0.0007	P	2.6
2	☐	20.000	18.968	4086.14	0.0098	P	1.6
3	☐	1000.000	993.794	194701.89	0.4765	P	0.5
4	☐	2500.000	2506.429	471492.37	1.2006	P	2.0
5	☐	5000.000	4967.148	887810.44	2.3787	P	0.9
6	☐	10000.000	9679.698	1706066.85	4.6347	A	2.2
7	☐	20000.000	19069.063	3445621.79	9.1298	A	0.6
8	☐	100000.00	100219.76	17817513.90	47.9799	A	0.9

$$y = 4.7874\text{E-}004 * x + 6.8796\text{E-}004$$

$$R = 0.9999$$

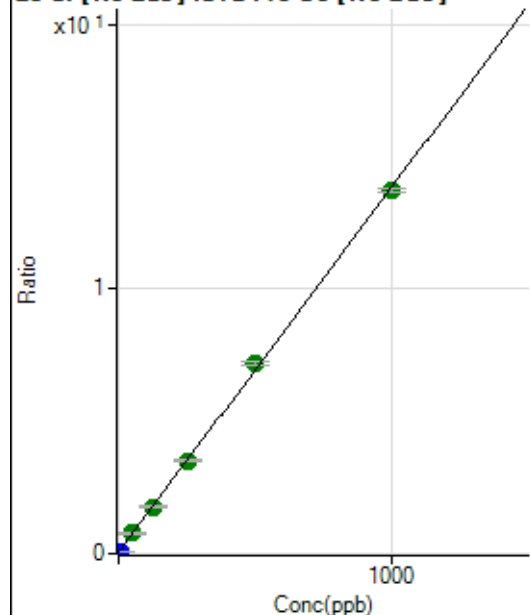
$$DL = 0.1112$$

$$BEC = 1.437$$

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	285312.99	0.0563	P	1.7
2	☐	10.000	0.229	305776.22	0.0595	P	0.3
3	☐	50.000	52.207	3789043.21	0.7752	A	7.1
4	☐	125.000	124.659	8878814.18	1.7730	A	1.2
5	☐	250.000	251.604	17146529.33	3.5211	A	1.1
6	☐	500.000	517.932	33469795.61	7.1885	A	2.2
7	☐	1000.000	990.663	65063687.92	13.6983	A	1.0
8	☐			368213.20	0.0803	P	0.7

$$y = 0.0138 * x + 0.0563$$

$$R = 0.9997$$

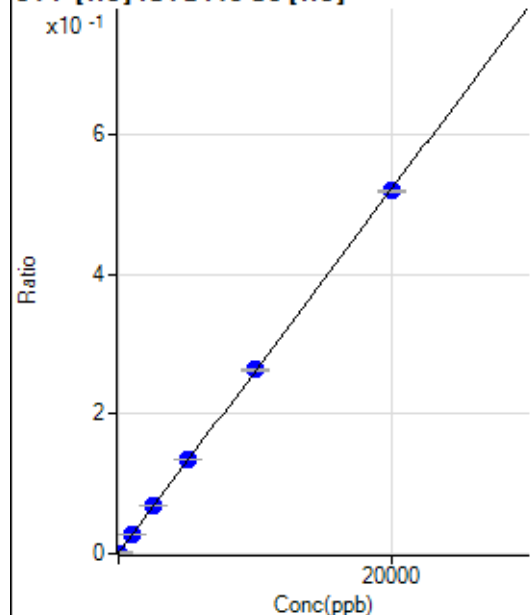
$$DL = 0.2137$$

$$BEC = 4.091$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-16.111	210.00	0.0005	P	4.1
2	☐	0.000	16.111	562.24	0.0013	P	7.2
3	☐	1000.000	1043.325	11472.16	0.0281	P	0.3
4	☐	2500.000	2603.298	26968.28	0.0687	P	1.1
5	☐	5000.000	5145.515	50321.32	0.1348	P	1.1
6	☐	10000.000	10080.647	96901.87	0.2632	P	0.9
7	☐	20000.000	19908.219	195854.35	0.5190	P	0.7
8	☐			301.12	0.0008	P	13.4

$$y = 2.6021E-005 * x + 9.2517E-004$$

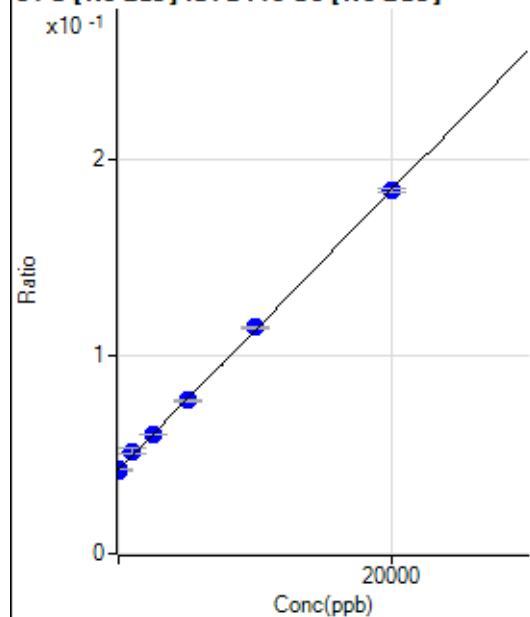
$$R = 1.0000$$

$$DL = 6.758$$

$$BEC = 35.55$$

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	-25.424	214256.77	0.0423	P	1.5
2	☐	0.000	25.424	219306.60	0.0427	P	0.7
3	☐	1000.000	1340.905	254130.45	0.0520	P	6.6
4	☐	2500.000	2505.836	301711.99	0.0602	P	0.5
5	☐	5000.000	4932.427	377121.92	0.0774	P	0.6
6	☐	10000.000	10154.139	532923.91	0.1144	P	0.9
7	☐	20000.000	19922.049	872435.16	0.1837	P	0.9
8	☐			165502.88	0.0361	P	0.4

$$y = 7.0874\text{E-}006 * x + 0.0425$$

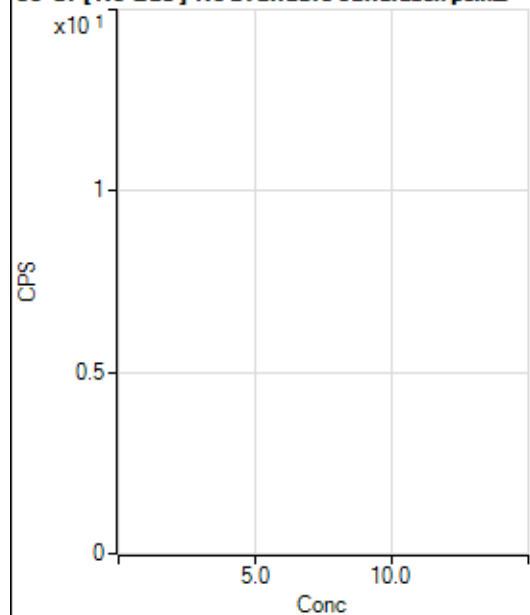
R = 0.9998

DL = 204.3

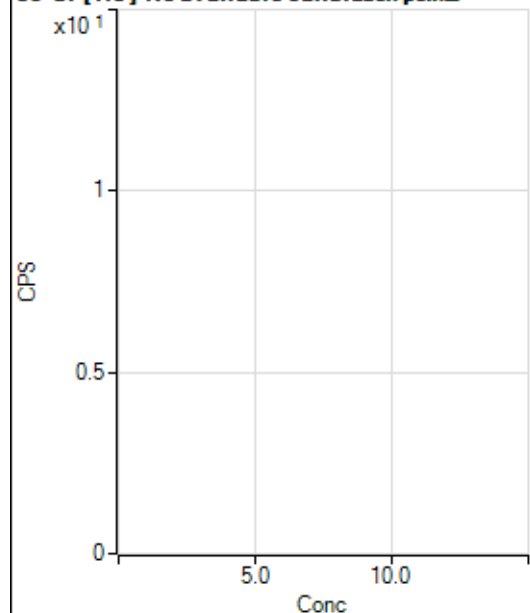
BEC = 5994

Weight: <None>

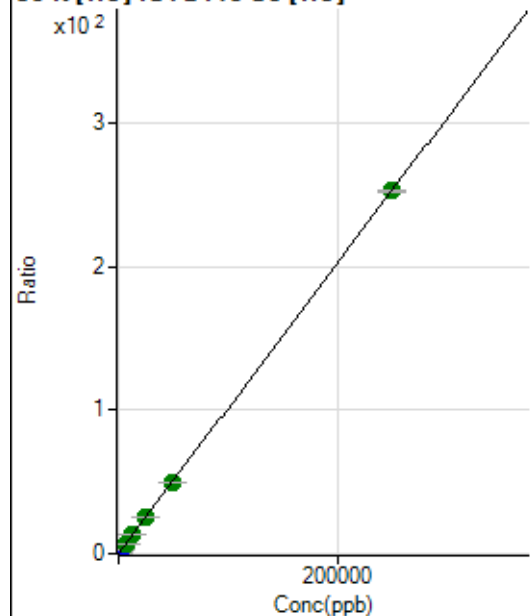
Min Conc: 0

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	61855.28	0.1490	P	0.7
2	☐	500.000	517.774	280785.66	0.6713	P	0.4
3	☐	2500.000	2687.347	1168594.11	2.8597	P	0.4
4	☐	6250.000	6260.491	2538740.64	6.4638	A	1.0
5	☐	12500.000	12603.309	4800504.89	12.8616	A	0.5
6	☐	25000.000	24658.770	9211175.90	25.0216	A	0.6
7	☐	50000.000	49178.390	18777287.08	49.7538	A	0.5
8	☐	250000.00	250191.10	93770517.49	252.5095	A	0.8

$$y = 0.0010 * x + 0.1490$$

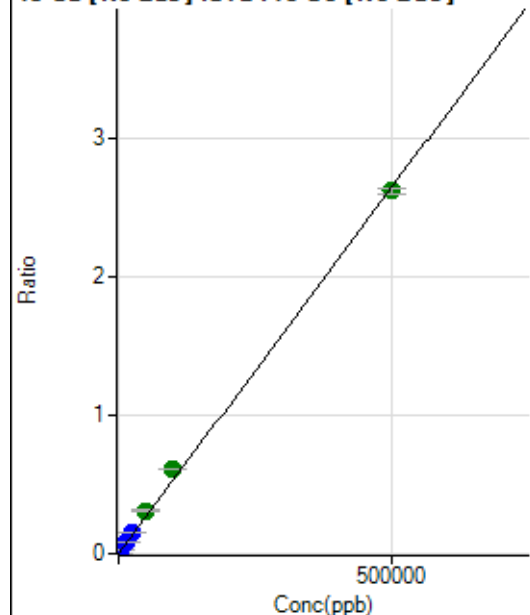
$$R = 1.0000$$

$$DL = 2.991$$

$$BEC = 147.7$$

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	603.35	0.0001	P	4.5
2	☐	500.000	524.278	14834.01	0.0029	P	1.1
3	☐	5000.000	6286.307	162684.21	0.0333	P	7.5
4	☐	12500.000	14888.885	394059.50	0.0787	P	1.3
5	☐	25000.000	29779.029	765828.52	0.1573	P	1.5
6	☐	50000.000	58995.495	1450125.54	0.3114	A	2.0
7	☐	100000.00	115769.34	2902378.39	0.6110	A	1.2
8	☐	500000.00	495635.02	11990713.71	2.6156	A	1.5

$$y = 5.2771\text{E-}006 * x + 1.1910\text{E-}004$$

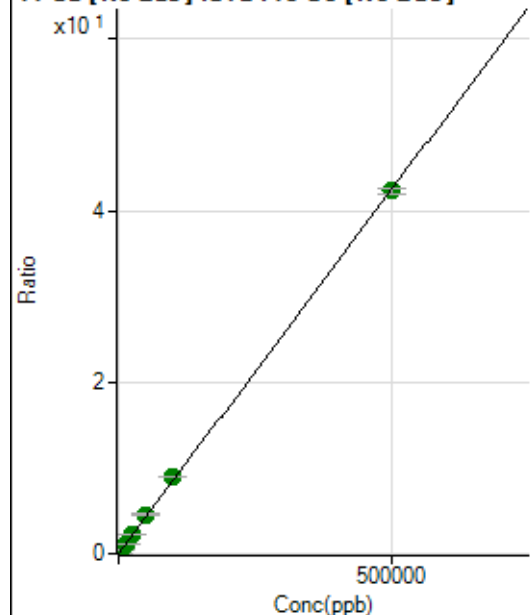
$$R = 0.9994$$

$$DL = 3.078$$

$$BEC = 22.57$$

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	17789.24	0.0035	P	1.4
2	☐	500.000	524.741	247003.20	0.0480	P	0.7
3	☐	5000.000	5715.759	2387822.64	0.4886	A	7.5
4	☐	12500.000	13378.727	5704068.11	1.1390	A	1.3
5	☐	25000.000	26736.392	11067626.50	2.2728	A	1.5
6	☐	50000.000	53957.142	21340046.07	4.5831	A	1.6
7	☐	100000.00	106053.63	42771886.58	9.0049	A	0.8
8	☐	500000.00	498277.58	193886046.0	42.2950	A	1.8

$$y = 8.4875\text{E-}005 * x + 0.0035$$

$$R = 0.9999$$

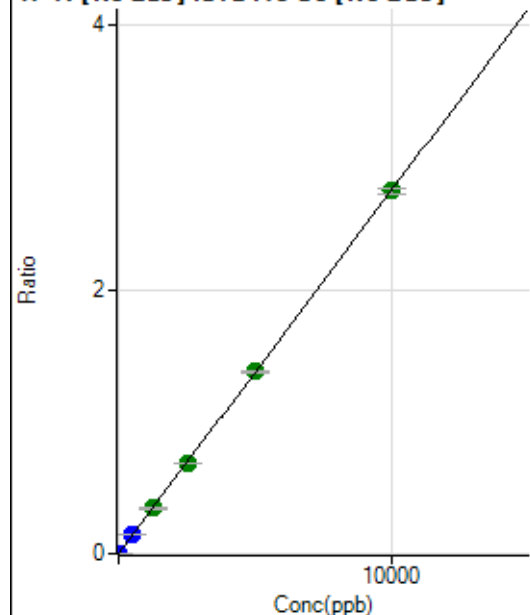
$$DL = 1.746$$

$$BEC = 41.38$$

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	126.67	0.0000	P	23.8
2	☐	5.000	4.556	6569.26	0.0013	P	2.1
3	☐	500.000	529.241	711388.33	0.1456	P	7.4
4	☐	1250.000	1247.380	1718056.90	0.3431	A	2.3
5	☐	2500.000	2498.417	3346330.47	0.6871	A	0.7
6	☐	5000.000	5025.660	6436012.27	1.3822	A	1.0
7	☐	10000.000	9986.432	13044925.92	2.7465	A	1.6
8	☐			1853.46	0.0004	P	7.1

$$y = 2.7502\text{E-}004 * x + 2.5018\text{E-}005$$

$$R = 1.0000$$

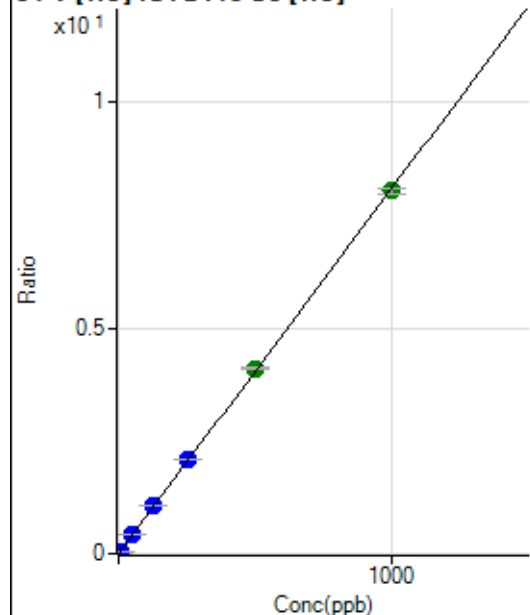
$$DL = 0.06497$$

$$BEC = 0.09097$$

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	10.00	0.0000	P	66.7
2	☐	5.000	5.082	17212.13	0.0411	P	1.9
3	☐	50.000	51.596	170626.71	0.4175	P	1.1
4	☐	125.000	130.010	413189.13	1.0521	P	1.3
5	☐	250.000	257.414	777466.33	2.0830	P	0.7
6	☐	500.000	506.495	1508757.27	4.0986	A	1.2
7	☐	1000.000	994.192	3036197.14	8.0451	A	1.3
8	☐			910.04	0.0025	P	6.9

$$y = 0.0081 * x + 2.4113\text{E-}005$$

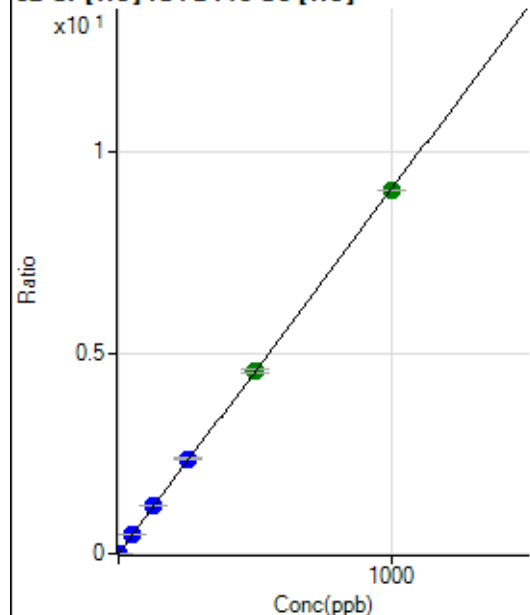
$$R = 0.9999$$

$$DL = 0.005963$$

$$BEC = 0.00298$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1897.92	0.0046	P	3.0
2	☐	2.000	2.076	9802.16	0.0234	P	1.6
3	☐	50.000	52.210	195729.98	0.4790	P	0.1
4	☐	125.000	130.220	466449.69	1.1878	P	2.0
5	☐	250.000	260.580	885441.69	2.3723	P	0.3
6	☐	500.000	502.666	1682956.23	4.5719	A	2.1
7	☐	1000.000	995.259	3414681.51	9.0478	A	0.1
8	☐			30121.22	0.0811	P	1.5

$$y = 0.0091 * x + 0.0046$$

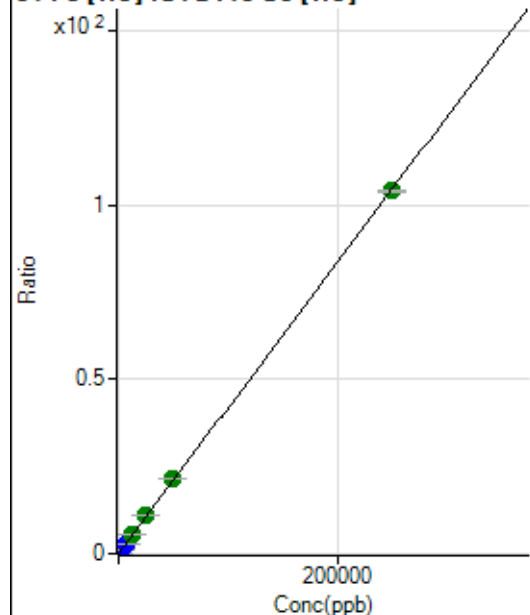
$$R = 0.9999$$

$$DL = 0.04498$$

$$BEC = 0.5032$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1913.48	0.0046	P	5.3
2	☐	50.000	55.604	11632.34	0.0278	P	1.8
3	☐	2500.000	2823.977	483400.86	1.1829	P	0.8
4	☐	6250.000	7113.806	1167465.06	2.9729	P	2.4
5	☐	12500.000	13468.108	2099180.96	5.6243	A	0.6
6	☐	25000.000	26544.722	4078848.62	11.0805	A	1.7
7	☐	50000.000	51813.898	8161104.81	21.6242	A	0.9
8	☐	250000.00	249409.50	38647926.37	104.0721	A	0.7

$$y = 4.1726E-004 * x + 0.0046$$

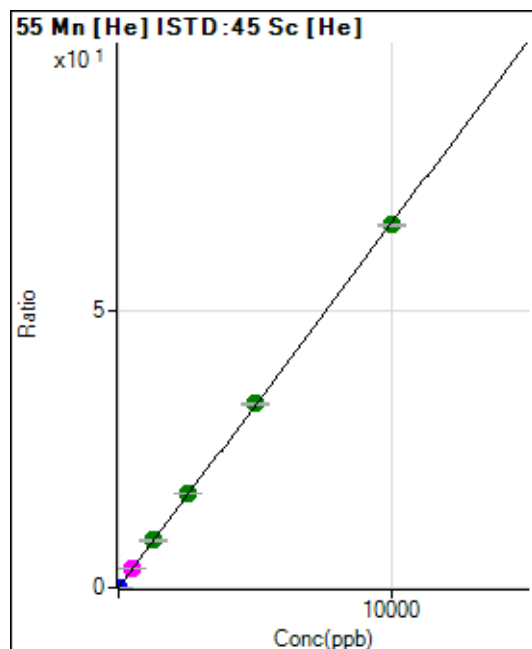
$$R = 1.0000$$

$$DL = 1.755$$

$$BEC = 11.05$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	880.03	0.0021	P	7.9
2	☐	1.000	0.853	3233.71	0.0077	P	3.7
3	☐	500.000	514.900	1385109.54	3.3895	M	1.4
4	☐	1250.000	1298.316	3355284.57	8.5434	A	1.5
5	☐	2500.000	2571.527	6315007.96	16.9196	A	0.5
6	☐	5000.000	5045.170	12218668.43	33.1930	A	1.6
7	☐	10000.000	9952.749	24712476.02	65.4788	A	0.5
8	☐			14738.43	0.0397	P	0.9

$$y = 0.0066 * x + 0.0021$$

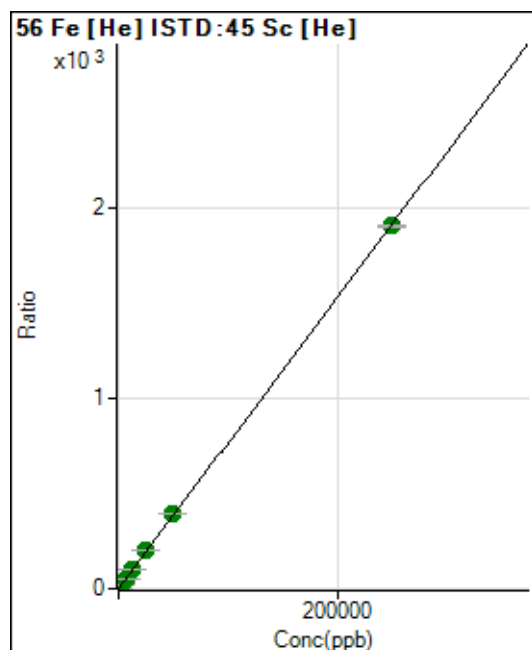
$$R = 1.0000$$

$$DL = 0.07621$$

$$BEC = 0.3222$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20282.67	0.0489	P	0.8
2	☐	50.000	54.651	195449.58	0.4673	P	0.7
3	☐	2500.000	2632.335	8255539.32	20.2022	A	0.4
4	☐	6250.000	6685.614	20121540.40	51.2343	A	1.3
5	☐	12500.000	13233.069	37832922.77	101.3619	A	0.4
6	☐	25000.000	26138.410	73684772.79	200.1659	A	0.8
7	☐	50000.000	51653.209	149266602.2	395.5085	A	0.4
8	☐	250000.00	249506.64	709401464.9	1.910284	A	0.6

$$y = 0.0077 * x + 0.0489$$

$$R = 1.0000$$

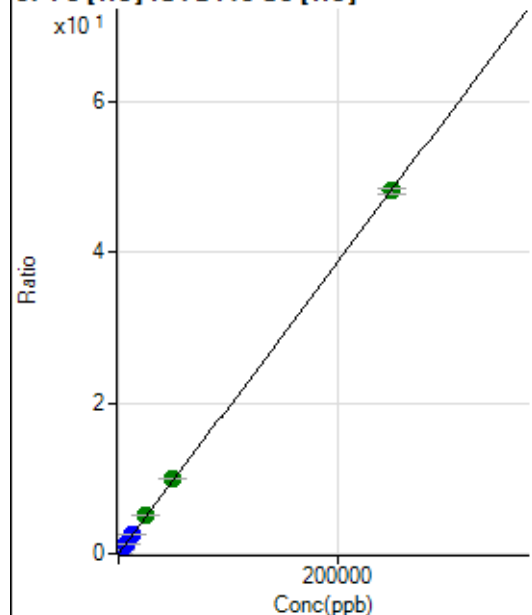
$$DL = 0.1563$$

$$BEC = 6.383$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2045.72	0.0049	P	5.5
2	☐	50.000	54.818	6483.68	0.0155	P	2.0
3	☐	2500.000	2775.526	220757.54	0.5402	P	0.2
4	☐	6250.000	6922.944	526298.96	1.3401	P	1.4
5	☐	12500.000	13786.091	994200.25	2.6637	P	0.4
6	☐	25000.000	26057.558	1851732.42	5.0304	A	1.8
7	☐	50000.000	51169.933	3726213.03	9.8736	A	1.0
8	☐	250000.00	249576.37	17876111.40	48.1382	A	1.3

$$y = 1.9286\text{E-}004 * x + 0.0049$$

R = 1.0000

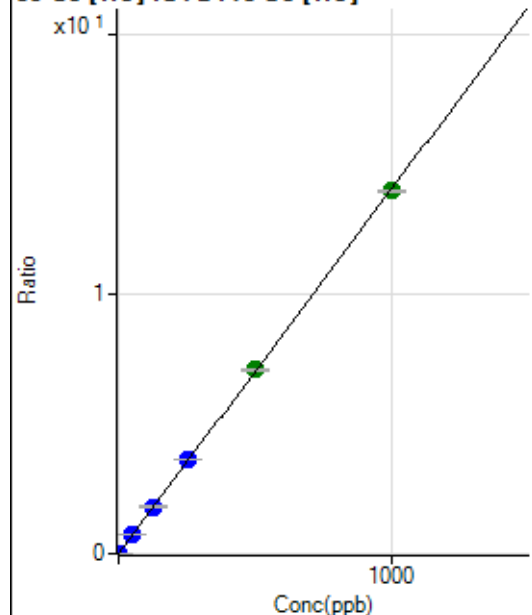
DL = 4.236

BEC = 25.56

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	177.78	0.0004	P	7.2
2	☐	1.000	1.054	6376.96	0.0152	P	1.8
3	☐	50.000	52.100	299507.97	0.7329	P	0.6
4	☐	125.000	129.139	713199.32	1.8161	P	2.1
5	☐	250.000	258.670	1357547.16	3.6372	P	0.5
6	☐	500.000	504.165	2609488.23	7.0887	A	0.9
7	☐	1000.000	995.128	5280275.06	13.9914	A	0.9
8	☐			13599.58	0.0366	P	1.5

$$y = 0.0141 * x + 4.2835\text{E-}004$$

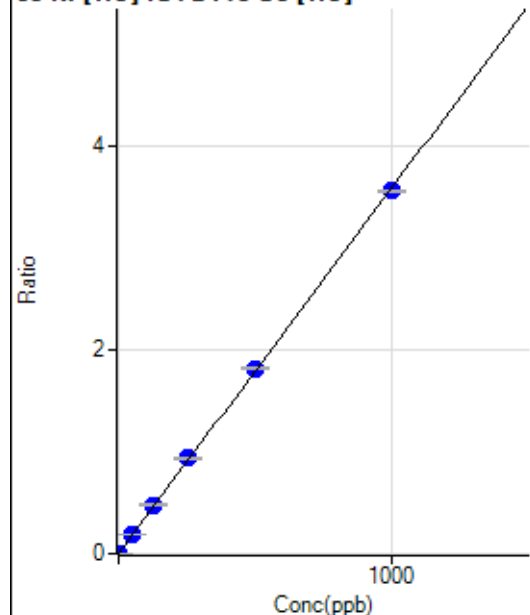
R = 0.9999

DL = 0.006544

BEC = 0.03047

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	596.69	0.0014	P	4.7
2	☐	1.000	0.994	2089.06	0.0050	P	4.2
3	☐	50.000	53.043	78129.86	0.1912	P	1.1
4	☐	125.000	133.284	187802.07	0.4782	P	2.6
5	☐	250.000	261.419	349597.20	0.9366	P	1.0
6	☐	500.000	505.910	666795.32	1.8113	P	0.7
7	☐	1000.000	993.003	1341210.58	3.5538	P	0.3
8	☐			10213.55	0.0275	P	1.4

$$y = 0.0036 * x + 0.0014$$

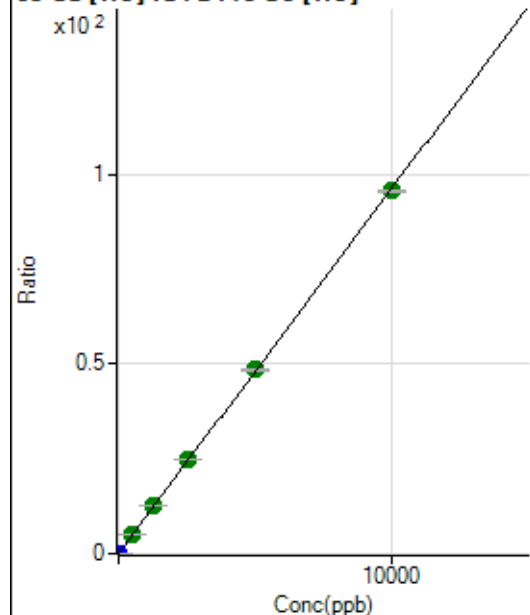
$$R = 0.9999$$

$$DL = 0.05697$$

$$BEC = 0.4019$$

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	1801.24	0.0043	P	0.4
2	☐	2.000	1.901	9454.18	0.0226	P	3.6
3	☐	500.000	525.858	2065804.72	5.0553	A	0.9
4	☐	1250.000	1324.450	4997975.59	12.7258	A	1.2
5	☐	2500.000	2599.429	9320776.94	24.9721	A	0.4
6	☐	5000.000	5038.733	17818014.32	48.4019	A	0.5
7	☐	10000.000	9945.177	36053299.74	95.5288	A	0.2
8	☐			7565.30	0.0204	P	1.7

$$y = 0.0096 * x + 0.0043$$

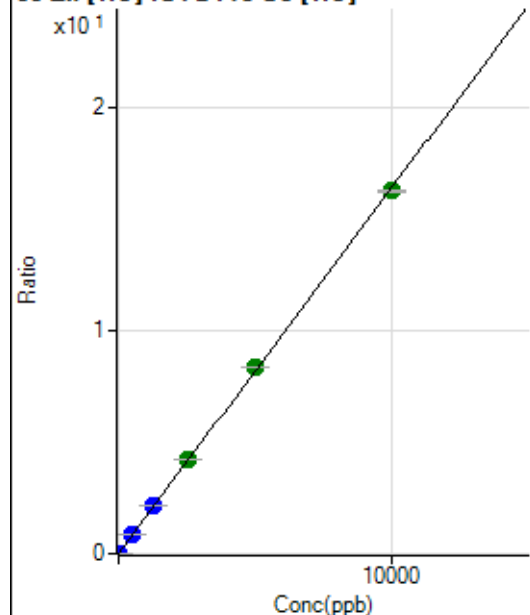
$$R = 0.9999$$

$$DL = 0.00514$$

$$BEC = 0.4518$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	982.27	0.0024	P	6.5
2	☐	5.000	5.042	4446.26	0.0106	P	4.0
3	☐	500.000	519.681	348955.02	0.8539	P	0.7
4	☐	1250.000	1302.402	839061.14	2.1365	P	1.6
5	☐	2500.000	2579.793	1578640.58	4.2297	A	1.7
6	☐	5000.000	5097.937	3076029.29	8.3560	A	0.4
7	☐	10000.000	9923.549	6137693.17	16.2633	A	0.8
8	☐			2115.73	0.0057	P	1.9

$$y = 0.0016 * x + 0.0024$$

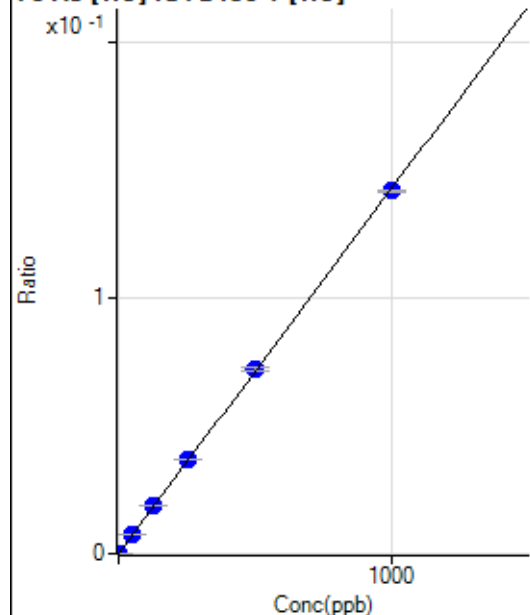
$$R = 0.9999$$

$$DL = 0.2835$$

$$BEC = 1.444$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.45	0.0000	P	47.2
2	☐	1.000	1.090	561.13	0.0002	P	7.8
3	☐	50.000	52.059	25873.73	0.0074	P	1.5
4	☐	125.000	131.443	63723.66	0.0188	P	3.1
5	☐	250.000	256.981	120001.06	0.0367	P	0.8
6	☐	500.000	506.622	235082.56	0.0724	P	2.3
7	☐	1000.000	994.035	478994.17	0.1420	P	0.6
8	☐			256.67	0.0001	P	2.9

$$y = 1.4290E-004 * x + 4.0688E-006$$

$$R = 0.9999$$

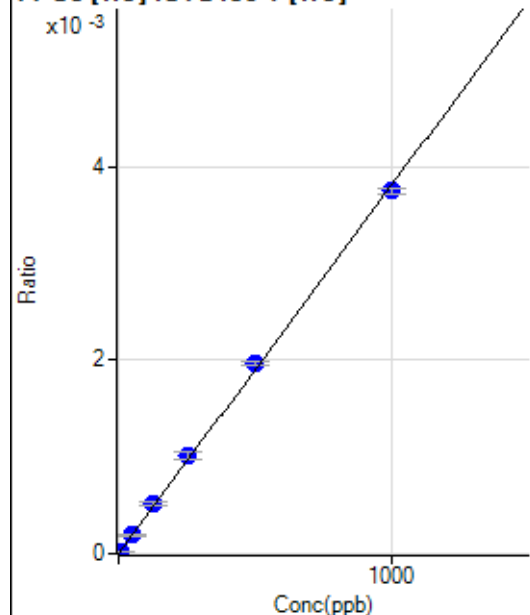
$$DL = 0.04032$$

$$BEC = 0.02847$$

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	6.246	83.33	0.0000	P	20.8
3	☐	50.000	50.702	670.02	0.0002	P	6.2
4	☐	125.000	135.210	1742.34	0.0005	P	8.0
5	☐	250.000	266.447	3311.51	0.0010	P	6.1
6	☐	500.000	518.896	6407.00	0.0020	P	1.9
7	☐	1000.000	985.123	12631.04	0.0037	P	1.9
8	☐			4.44	0.0000	P	42.5

$$y = 3.8023\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

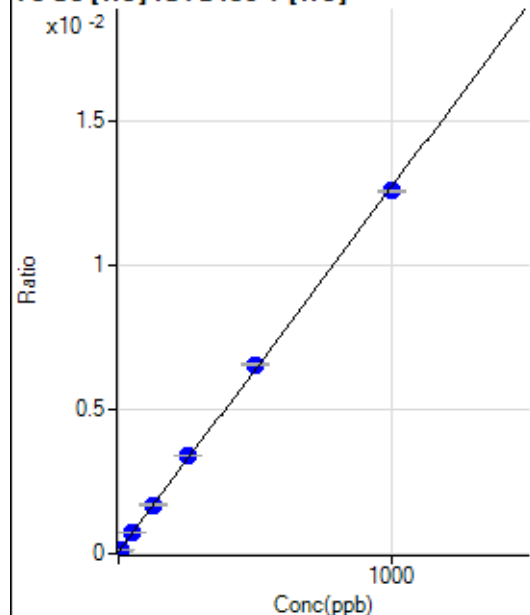
$$DL = 0$$

$$BEC = 0$$

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	243.34	0.0001	P	9.5
2	☐	5.000	5.160	471.12	0.0001	P	14.8
3	☐	50.000	53.916	2608.03	0.0008	P	4.0
4	☐	125.000	128.472	5742.27	0.0017	P	2.7
5	☐	250.000	262.267	11056.42	0.0034	P	0.7
6	☐	500.000	513.429	21298.73	0.0066	P	1.4
7	☐	1000.000	989.588	42409.37	0.0126	P	0.6
8	☐			232.23	0.0001	P	1.1

$$y = 1.2639\text{E-}005 * x + 6.8822\text{E-}005$$

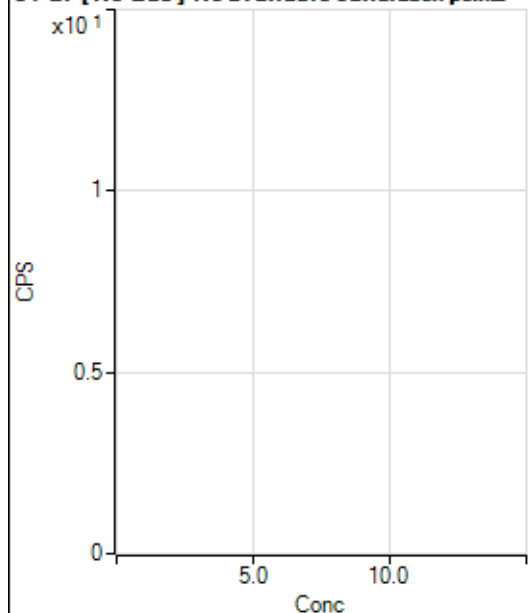
$$R = 0.9998$$

$$DL = 1.558$$

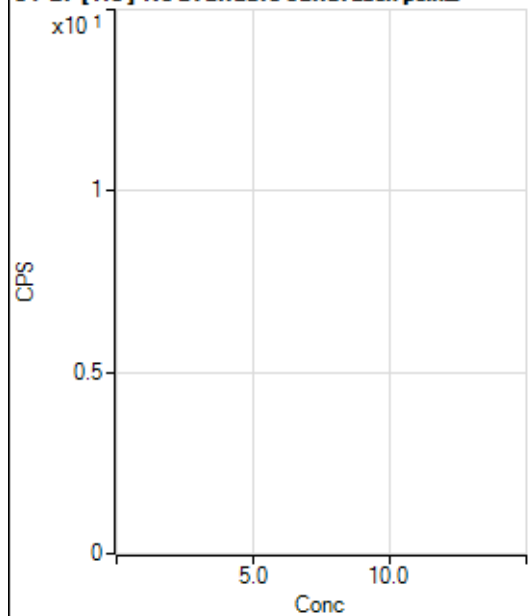
$$BEC = 5.445$$

Weight: <None>

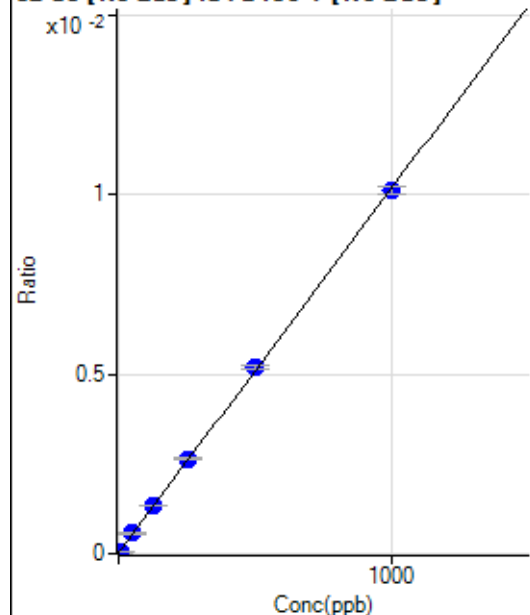
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7276.32		P	3.6
2	☐			7498.65		P	1.1
3	☐			7297.41		P	4.9
4	☐			6929.45		P	2.1
5	☐			6322.50		P	2.8
6	☐			6255.83		P	2.9
7	☐			6194.68		P	0.1
8	☐			7277.42		P	1.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	15.4
2	☐			40.00		P	22.0
3	☐			36.67		P	32.8
4	☐			48.89		P	7.9
5	☐			46.67		P	14.3
6	☐			45.56		P	11.2
7	☐			43.33		P	26.6
8	☐			54.44		P	25.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	294.41	0.0000	P	4.5
2	☐	5.000	5.149	1076.51	0.0001	P	2.7
3	☐	50.000	55.267	8191.04	0.0006	P	8.6
4	☐	125.000	129.535	19417.12	0.0013	P	0.7
5	☐	250.000	257.576	37631.65	0.0026	P	1.5
6	☐	500.000	508.344	71636.07	0.0052	P	1.8
7	☐	1000.000	993.103	141405.23	0.0101	P	2.2
8	☐			426.10	0.0000	P	6.9

$$y = 1.0158\text{E-}005 * x + 2.0041\text{E-}005$$

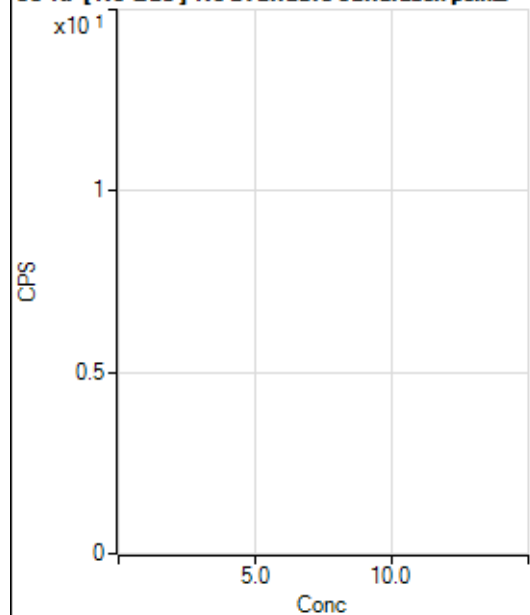
$$R = 0.9999$$

$$DL = 0.269$$

$$BEC = 1.973$$

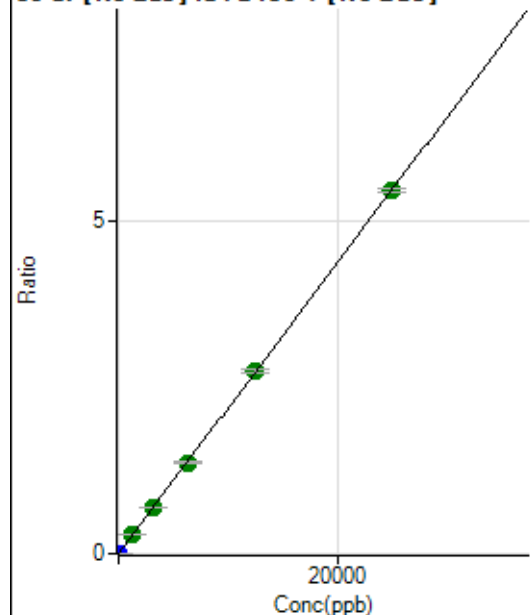
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			164.45		P	20.4
2	☐			140.00		P	18.9
3	☐			150.00		P	15.4
4	☐			171.11		P	13.0
5	☐			124.45		P	4.1
6	☐			145.56		P	13.4
7	☐			157.78		P	24.3
8	☐			186.67		P	3.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	255.56	0.0000	P	15.2
2	☐	1.000	1.027	3600.48	0.0002	P	1.1
3	☐	1250.000	1328.590	4093681.50	0.2906	A	8.9
4	☐	3125.000	3150.748	10017576.94	0.6892	A	0.9
5	☐	6250.000	6266.206	19564866.51	1.3707	A	1.4
6	☐	12500.000	12527.016	37867628.33	2.7402	A	1.9
7	☐	25000.000	24975.293	76433687.20	5.4631	A	1.2
8	☐			11398.94	0.0009	P	2.2

$$y = 2.1874\text{E-}004 * x + 1.7393\text{E-}005$$

$$R = 1.0000$$

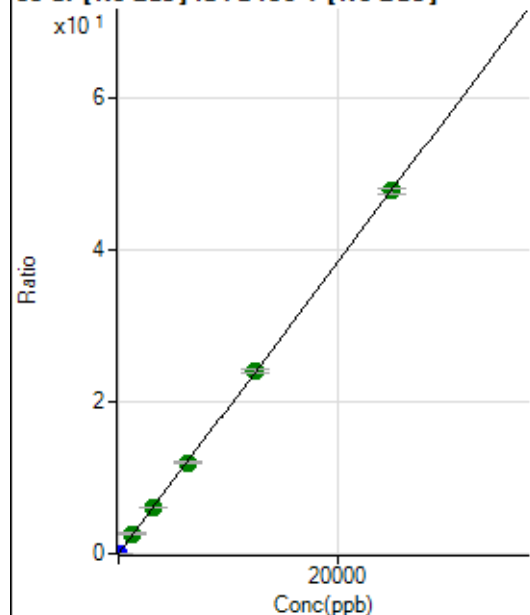
$$DL = 0.03622$$

$$BEC = 0.07951$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	568.90	0.0000	P	13.8
2	☐	1.000	1.021	29620.91	0.0020	P	1.1
3	☐	1250.000	1331.327	35843629.47	2.5446	A	8.8
4	☐	3125.000	3158.225	87736857.58	6.0364	A	0.9
5	☐	6250.000	6257.991	170720833.0	11.9609	A	1.9
6	☐	12500.000	12537.779	331165210.6	23.9635	A	1.7
7	☐	25000.000	24970.894	667705621.1	47.7269	A	1.9
8	☐			98378.59	0.0075	P	3.1

$$y = 0.0019 * x + 3.8744\text{E-}005$$

$$R = 1.0000$$

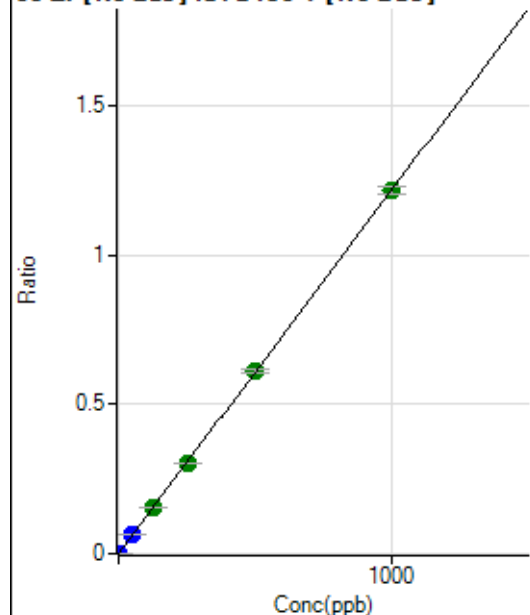
$$DL = 0.008401$$

$$BEC = 0.02027$$

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	572.24	0.0000	P	9.8
2	☐	1.000	0.924	17321.44	0.0012	P	1.9
3	☐	50.000	52.820	906054.34	0.0643	P	9.1
4	☐	125.000	126.175	2232765.42	0.1536	A	1.2
5	☐	250.000	248.901	4325064.97	0.3030	A	1.1
6	☐	500.000	502.917	8459951.05	0.6122	A	1.9
7	☐	1000.000	998.528	17004392.66	1.2154	A	2.1
8	☐			8989.49	0.0007	P	2.2

$$y = 0.0012 * x + 3.8965E-005$$

$$R = 1.0000$$

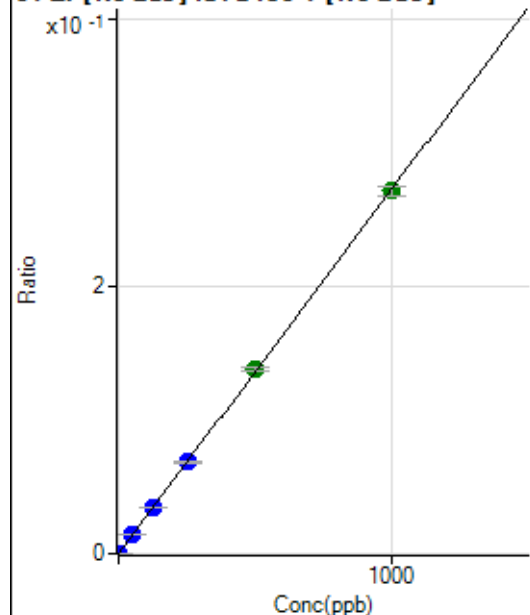
$$DL = 0.009382$$

$$BEC = 0.03201$$

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	123.34	0.0000	P	15.2
2	☐	1.000	0.899	3767.19	0.0003	P	4.8
3	☐	50.000	52.889	202764.01	0.0144	P	9.5
4	☐	125.000	126.755	501447.05	0.0345	P	1.0
5	☐	250.000	251.252	975963.68	0.0684	P	1.9
6	☐	500.000	505.850	1902296.97	0.1377	A	2.0
7	☐	1000.000	996.398	3793152.34	0.2711	A	2.5
8	☐			2051.27	0.0002	P	2.3

$$y = 2.7211E-004 * x + 8.3958E-006$$

$$R = 1.0000$$

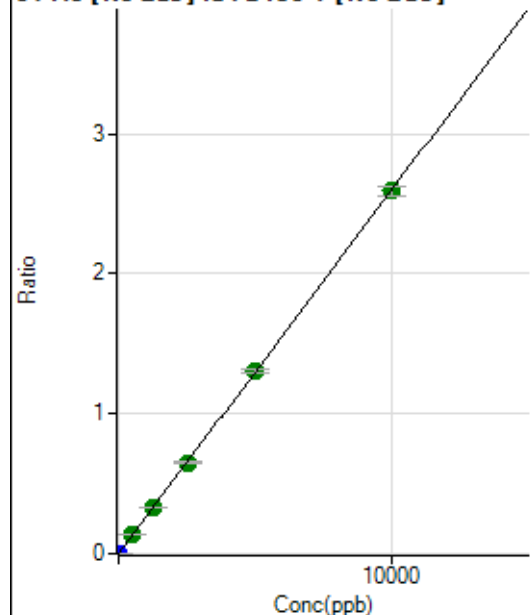
$$DL = 0.01409$$

$$BEC = 0.03085$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0000	P	7.3
2	☐	5.000	5.260	20660.18	0.0014	P	2.2
3	☐	500.000	528.731	1935024.83	0.1374	A	8.9
4	☐	1250.000	1268.134	4788503.89	0.3295	A	1.2
5	☐	2500.000	2501.388	9275699.31	0.6498	A	1.4
6	☐	5000.000	5026.976	18048358.48	1.3059	A	1.3
7	☐	10000.000	9982.462	36277939.46	2.5933	A	2.7
8	☐			10635.08	0.0008	P	2.1

$$y = 2.5978\text{E-}004 * x + 2.2000\text{E-}005$$

$$R = 1.0000$$

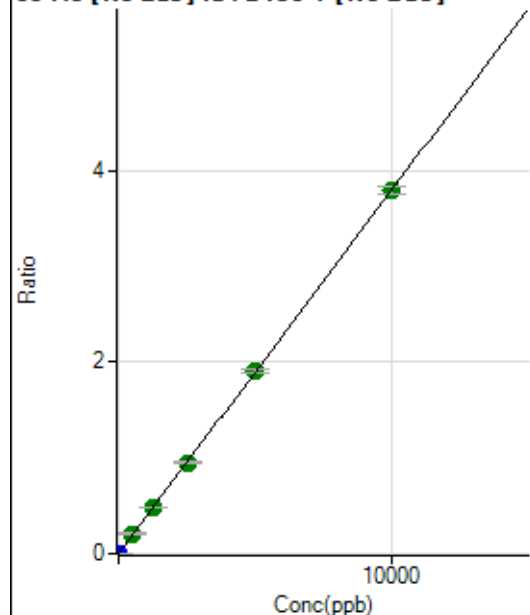
$$DL = 0.01867$$

$$BEC = 0.08469$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	225.56	0.0000	P	14.9
2	☐	5.000	4.542	25845.13	0.0017	P	0.3
3	☐	500.000	531.824	2838868.15	0.2016	A	9.1
4	☐	1250.000	1266.887	6978758.09	0.4801	A	1.0
5	☐	2500.000	2501.267	13531753.27	0.9480	A	1.1
6	☐	5000.000	5021.421	26299656.55	1.9031	A	1.7
7	☐	10000.000	9985.271	52942508.10	3.7843	A	2.2
8	☐			11784.82	0.0009	P	0.8

$$y = 3.7899\text{E-}004 * x + 1.5362\text{E-}005$$

$$R = 1.0000$$

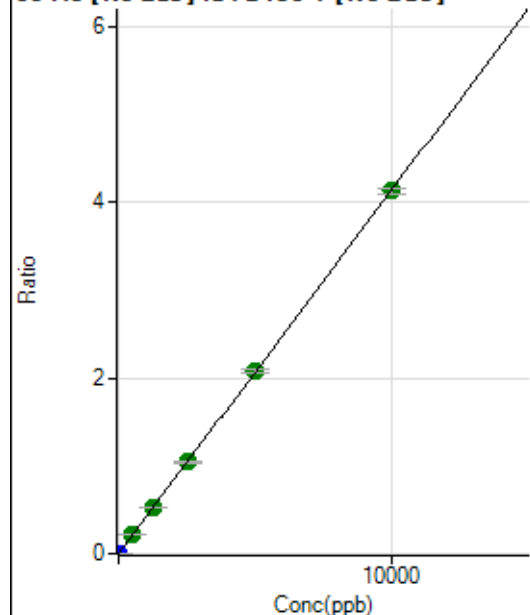
$$DL = 0.01818$$

$$BEC = 0.04054$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	332.23	0.0000	P	1.6
2	☐	5.000	4.580	28498.93	0.0019	P	0.6
3	☐	500.000	530.664	3088448.43	0.2193	A	9.1
4	☐	1250.000	1264.927	7596534.75	0.5227	A	1.3
5	☐	2500.000	2514.452	14829642.28	1.0389	A	1.3
6	☐	5000.000	5021.875	28673393.74	2.0750	A	2.2
7	☐	10000.000	9982.050	57700785.25	4.1244	A	1.9
8	☐			21446.90	0.0016	P	3.3

$$y = 4.1318\text{E-}004 * x + 2.2613\text{E-}005$$

$$R = 1.0000$$

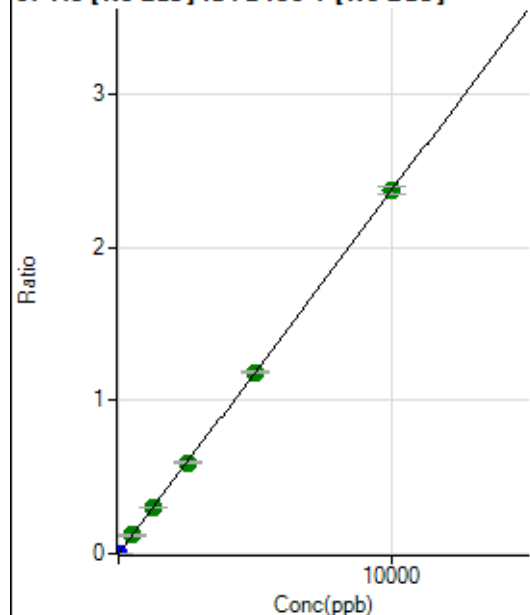
$$DL = 0.002555$$

$$BEC = 0.05473$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0000	P	3.9
2	☐	5.000	4.483	15998.84	0.0011	P	0.7
3	☐	500.000	523.268	1748207.87	0.1241	A	8.9
4	☐	1250.000	1259.005	4339885.25	0.2986	A	1.5
5	☐	2500.000	2501.533	8468017.44	0.5933	A	1.8
6	☐	5000.000	5004.337	16401955.59	1.1869	A	1.7
7	☐	10000.000	9995.159	33163212.56	2.3705	A	2.1
8	☐			7457.53	0.0006	P	2.8

$$y = 2.3716\text{E-}004 * x + 1.2025\text{E-}005$$

$$R = 1.0000$$

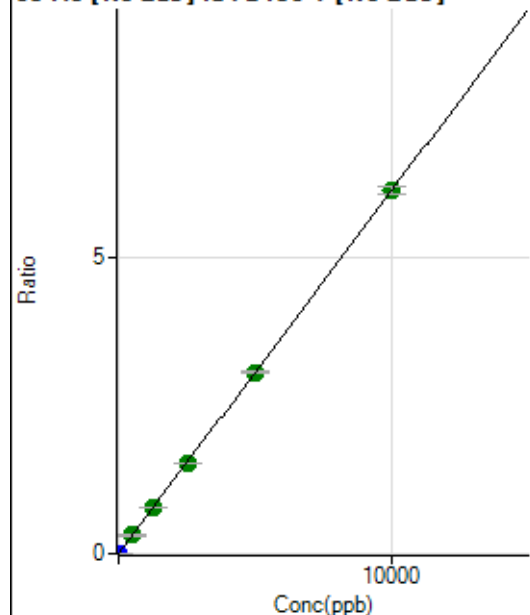
$$DL = 0.005862$$

$$BEC = 0.0507$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	397.79	0.0000	P	12.4
2	☐	5.000	4.474	41131.09	0.0028	P	0.7
3	☐	500.000	521.711	4496101.22	0.3192	A	8.8
4	☐	1250.000	1258.473	11189554.28	0.7699	A	1.3
5	☐	2500.000	2492.416	21763743.29	1.5247	A	1.1
6	☐	5000.000	5004.033	42305247.15	3.0611	A	1.5
7	☐	10000.000	9997.735	85561365.95	6.1160	A	2.0
8	☐			18326.03	0.0014	P	1.6

$$y = 6.1173\text{E-}004 * x + 2.7072\text{E-}005$$

$$R = 1.0000$$

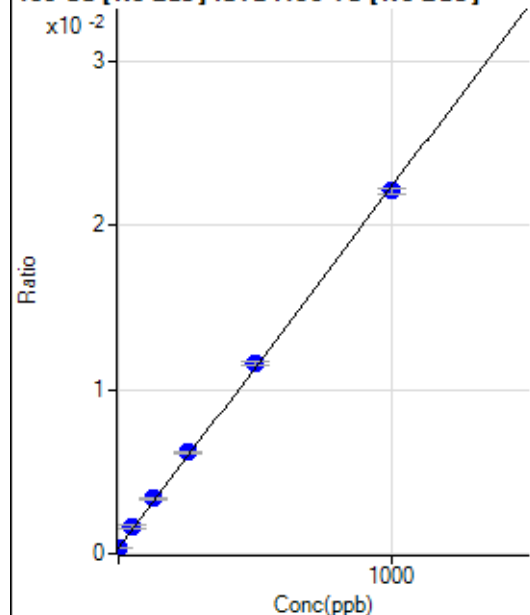
$$DL = 0.0164$$

$$BEC = 0.04425$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3530.47	0.0003	P	4.9
2	☐	1.000	1.247	3900.57	0.0004	P	5.2
3	☐	50.000	58.433	17032.31	0.0016	P	12.0
4	☐	125.000	137.386	37294.46	0.0034	P	1.6
5	☐	250.000	264.901	68765.05	0.0062	P	0.9
6	☐	500.000	510.888	128789.01	0.0116	P	2.1
7	☐	1000.000	988.861	252891.10	0.0221	P	1.4
8	☐			3232.62	0.0003	P	4.0

$$y = 2.1981\text{E-}005 * x + 3.3148\text{E-}004$$

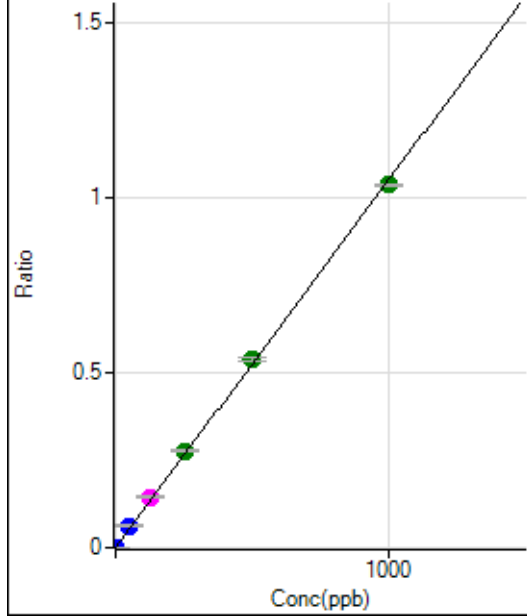
$$R = 0.9998$$

$$DL = 2.217$$

$$BEC = 15.08$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	3.7
2	☐	1.000	1.072	12271.95	0.0011	P	1.4
3	☐	50.000	59.020	653167.56	0.0619	P	9.7
4	☐	125.000	138.089	1610977.21	0.1448	M	1.5
5	☐	250.000	263.949	3091684.22	0.2767	A	0.5
6	☐	500.000	514.323	6006605.26	0.5391	A	1.7
7	☐	1000.000	987.264	11860307.46	1.0349	A	0.7
8	☐			1138.95	0.0001	P	7.1

$$y = 0.0010 * x + 5.2160E-006$$

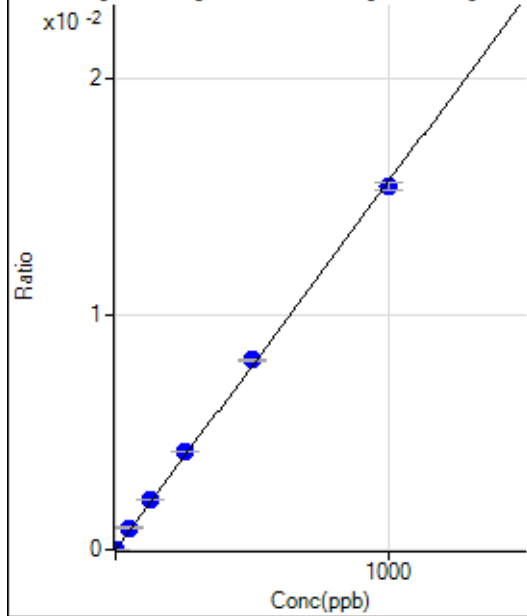
$$R = 0.9997$$

$$DL = 0.0005468$$

$$BEC = 0.004976$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.56	0.0000	P	33.1
2	☐	1.000	1.096	202.23	0.0000	P	8.0
3	☐	50.000	59.006	9738.92	0.0009	P	13.9
4	☐	125.000	136.818	23848.56	0.0021	P	1.8
5	☐	250.000	266.489	46626.92	0.0042	P	0.6
6	☐	500.000	516.237	90052.51	0.0081	P	0.8
7	☐	1000.000	985.831	176856.31	0.0154	P	2.1
8	☐			80.00	0.0000	P	12.5

$$y = 1.5653E-005 * x + 1.4617E-006$$

$$R = 0.9996$$

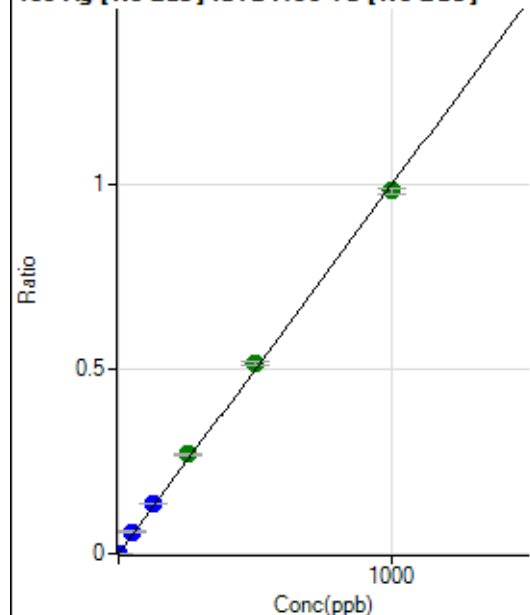
$$DL = 0.09271$$

$$BEC = 0.09338$$

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	38.89	0.0000	P	26.6
2	☐	1.000	1.069	11635.86	0.0011	P	2.5
3	☐	50.000	58.838	619719.60	0.0587	P	10.2
4	☐	125.000	136.468	1515840.12	0.1362	P	0.9
5	☐	250.000	269.000	2999901.45	0.2685	A	0.7
6	☐	500.000	518.078	5760388.32	0.5171	A	1.7
7	☐	1000.000	984.335	11258459.28	0.9824	A	1.4
8	☐			1065.61	0.0001	P	15.9

$$y = 9.9804\text{E-}004 * x + 3.6537\text{E-}006$$

$$R = 0.9995$$

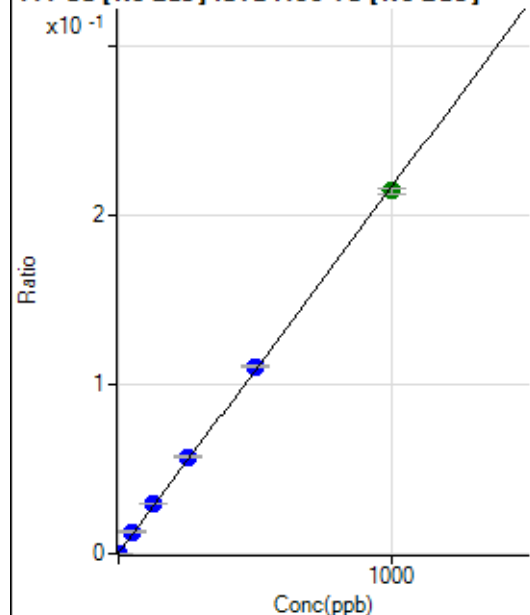
$$DL = 0.002925$$

$$BEC = 0.003661$$

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	2478.21	0.0002	P	5.3
2	☐	1.000	1.087	5086.86	0.0005	P	2.9
3	☐	50.000	57.556	134135.42	0.0127	P	8.9
4	☐	125.000	135.947	330308.32	0.0297	P	1.6
5	☐	250.000	263.989	641566.55	0.0574	P	0.7
6	☐	500.000	510.760	1235167.29	0.1109	P	1.6
7	☐	1000.000	989.376	2458737.88	0.2145	A	1.3
8	☐			2547.95	0.0002	P	5.0

$$y = 2.1662\text{E-}004 * x + 2.3269\text{E-}004$$

$$R = 0.9998$$

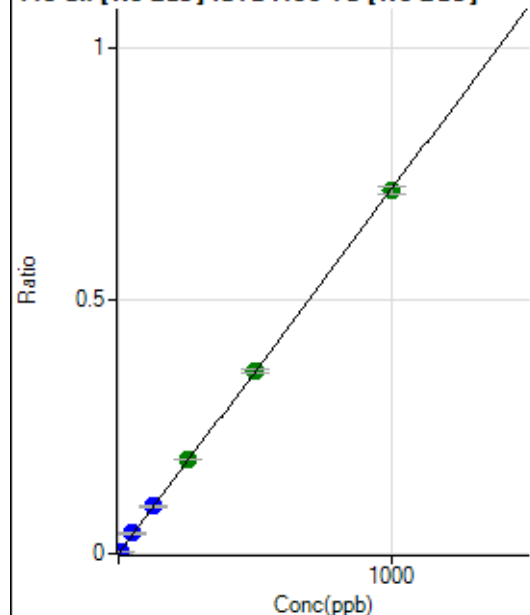
$$DL = 0.1714$$

$$BEC = 1.074$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1486.76	0.0001	P	1.4
2	☐	5.000	5.180	42012.20	0.0039	P	2.1
3	☐	50.000	55.310	421299.53	0.0399	P	10.6
4	☐	125.000	129.337	1037197.47	0.0932	P	0.9
5	☐	250.000	258.137	2076818.41	0.1859	A	0.8
6	☐	500.000	503.208	4034674.73	0.3622	A	2.3
7	☐	1000.000	995.553	8209884.53	0.7164	A	2.3
8	☐			5654.49	0.0005	P	3.5

$$y = 7.1947\text{E-}004 * x + 1.3957\text{E-}004$$

$$R = 1.0000$$

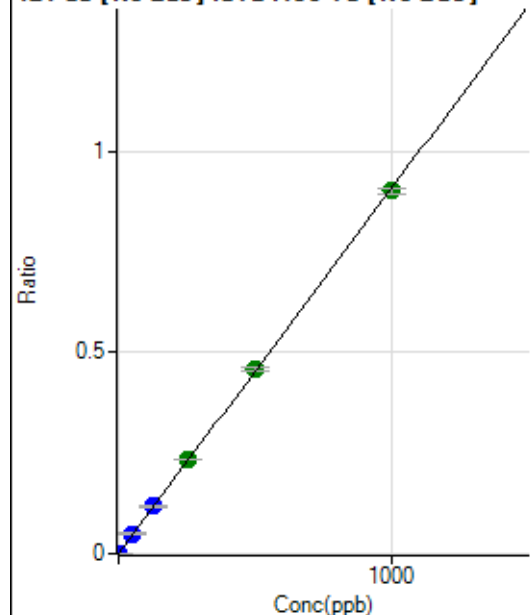
$$DL = 0.008084$$

$$BEC = 0.194$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	70.00	0.0000	P	29.1
2	☐	2.000	2.041	20202.05	0.0019	P	0.9
3	☐	50.000	54.896	525838.67	0.0498	P	10.4
4	☐	125.000	129.337	1306689.32	0.1174	P	0.6
5	☐	250.000	259.354	2630578.62	0.2354	A	0.9
6	☐	500.000	507.002	5126729.19	0.4602	A	2.2
7	☐	1000.000	993.373	10333505.68	0.9017	A	1.5
8	☐			7102.92	0.0007	P	4.2

$$y = 9.0771\text{E-}004 * x + 6.5750\text{E-}006$$

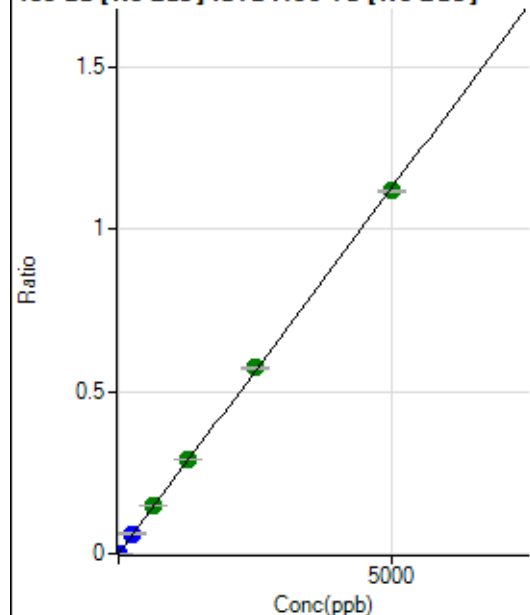
$$R = 0.9999$$

$$DL = 0.006334$$

$$BEC = 0.007243$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.56	0.0000	P	2.8
2	☐	10.000	10.059	24717.06	0.0023	P	2.2
3	☐	250.000	263.766	627627.91	0.0595	P	10.2
4	☐	625.000	654.862	1643410.58	0.1477	A	0.6
5	☐	1250.000	1290.596	3251416.72	0.2910	A	0.7
6	☐	2500.000	2541.086	6382597.89	0.5729	A	1.8
7	☐	5000.000	4964.887	12828602.59	1.1194	A	0.7
8	☐			4989.82	0.0005	P	2.9

$$y = 2.2546\text{E-}004 * x + 7.0936\text{E-}006$$

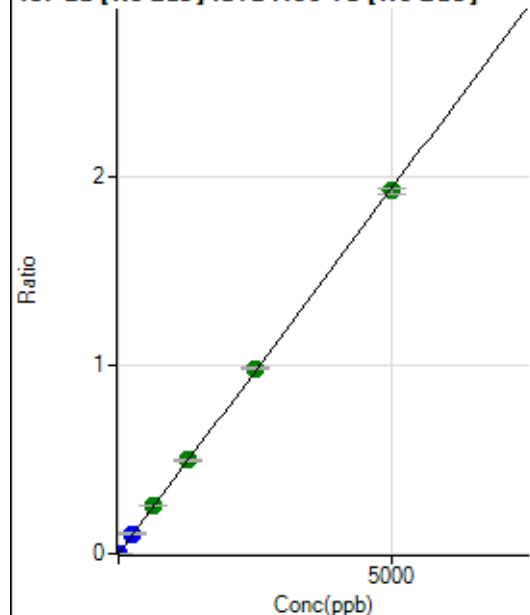
$$R = 0.9999$$

$$DL = 0.002599$$

$$BEC = 0.03146$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.44	0.0000	P	5.3
2	☐	10.000	10.037	42436.49	0.0039	P	1.8
3	☐	250.000	265.805	1088841.65	0.1032	P	10.3
4	☐	625.000	651.192	2813086.00	0.2528	A	1.6
5	☐	1250.000	1278.482	5544874.71	0.4962	A	1.4
6	☐	2500.000	2540.901	10987331.09	0.9863	A	1.6
7	☐	5000.000	4968.365	22100283.83	1.9285	A	1.4
8	☐			8958.44	0.0009	P	3.6

$$y = 3.8815\text{E-}004 * x + 9.8066\text{E-}006$$

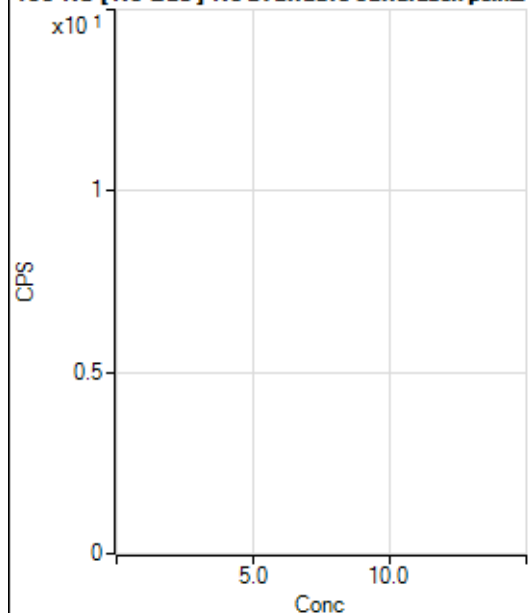
$$R = 0.9999$$

$$DL = 0.004015$$

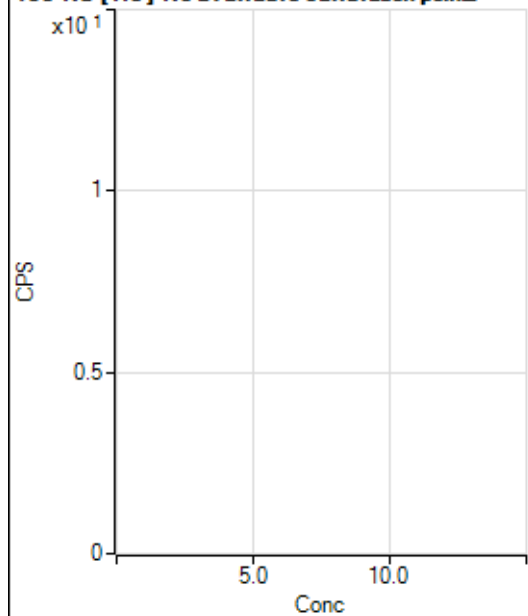
$$BEC = 0.02527$$

Weight: <None>

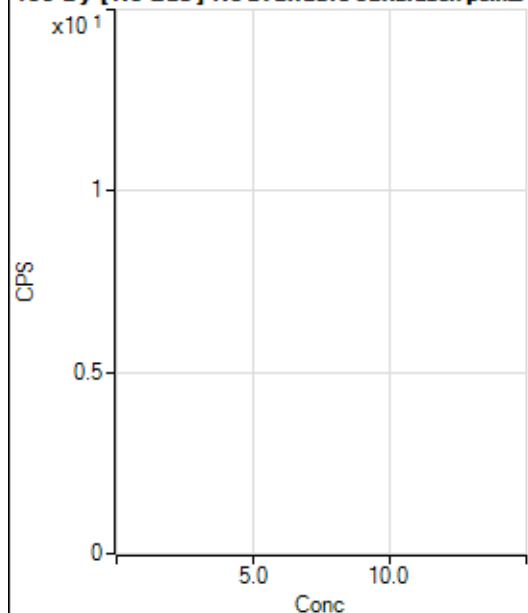
Min Conc: 0

150 Nd [No Gas] No available calibration points

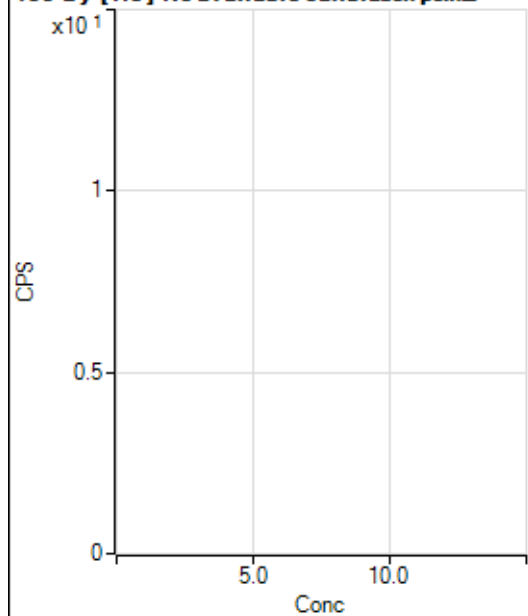
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.45		P	48.0
2	☐			17.78		P	39.0
3	☐			48.89		P	21.9
4	☐			93.33		P	7.1
5	☐			157.78		P	21.7
6	☐			342.23		P	6.6
7	☐			593.35		P	4.8
8	☐			192.22		P	7.0

150 Nd [He] No available calibration points

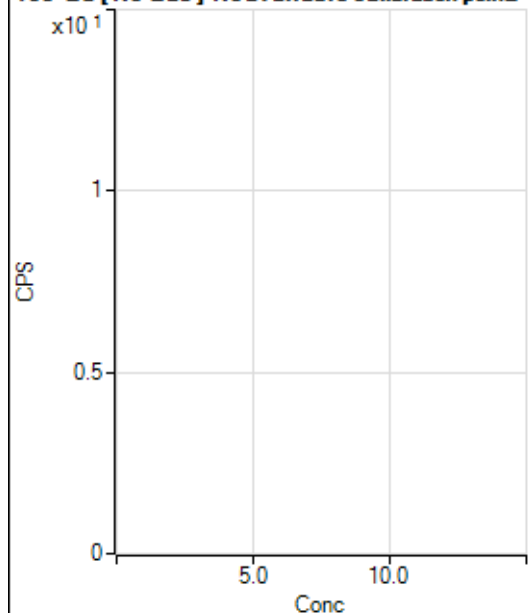
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			8.89		P	114.
3	☐			25.56		P	45.8
4	☐			27.78		P	48.5
5	☐			45.56		P	27.7
6	☐			94.45		P	17.4
7	☐			180.00		P	11.1
8	☐			125.56		P	12.0

156 Dy [No Gas] No available calibration points

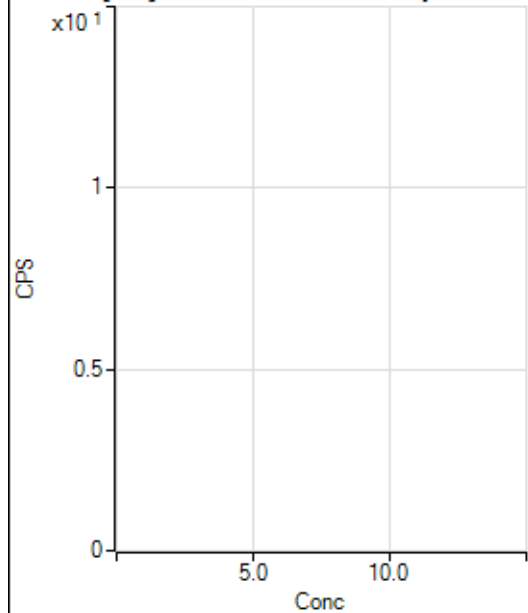
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	28.6
2	☐			26.67		P	0.0
3	☐			42.22		P	40.5
4	☐			68.89		P	5.6
5	☐			83.33		P	4.0
6	☐			141.11		P	8.3
7	☐			340.01		P	6.4
8	☐			352.23		P	9.5

156 Dy [He] No available calibration points

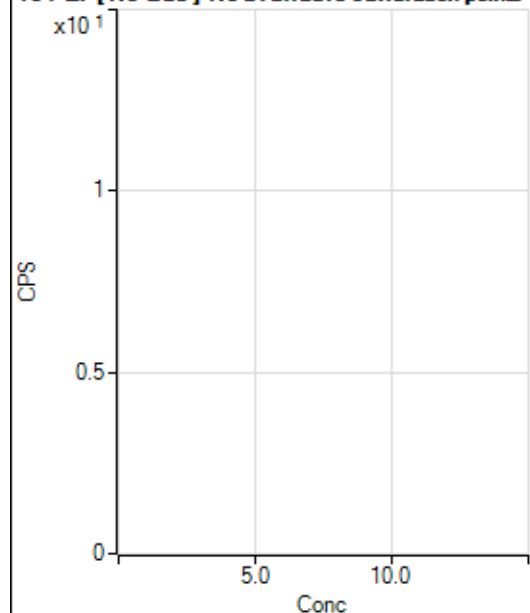
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	45.8
2	☐			8.89		P	21.6
3	☐			45.55		P	8.5
4	☐			82.22		P	27.0
5	☐			161.12		P	9.8
6	☐			320.01		P	9.4
7	☐			566.69		P	22.6
8	☐			264.45		P	8.4

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

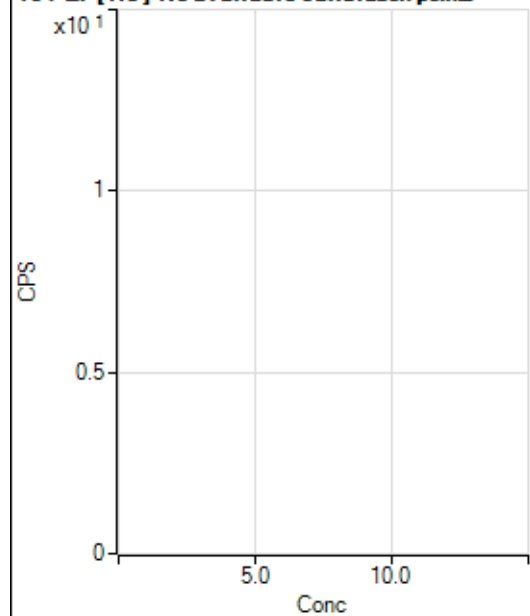
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	31.2
2	☐			54.44		P	47.6
3	☐			73.33		P	16.4
4	☐			67.78		P	18.6
5	☐			114.45		P	4.4
6	☐			106.67		P	23.6
7	☐			214.45		P	11.2
8	☐			378.90		P	10.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			400.01		P	9.8
2	☐			400.01		P	6.6
3	☐			420.01		P	13.2
4	☐			401.12		P	11.1
5	☐			386.67		P	17.2
6	☐			463.35		P	3.8
7	☐			498.90		P	9.6
8	☐			557.80		P	3.7

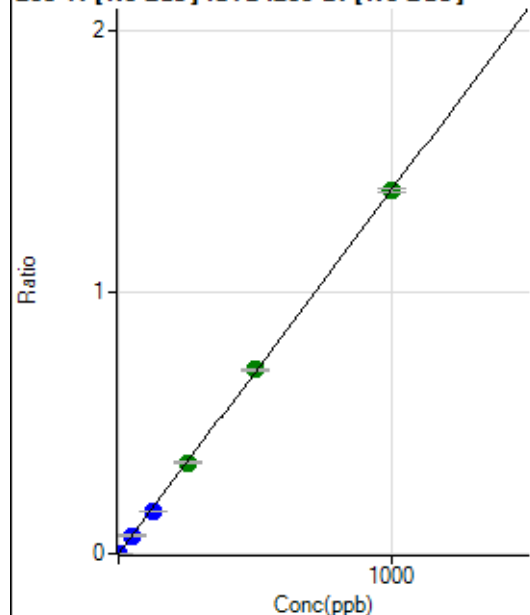
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			327.79		P	10.9
2	☐			287.79		P	17.7
3	☐			362.24		P	10.6
4	☐			292.23		P	8.4
5	☐			438.90		P	7.5
6	☐			457.79		P	2.9
7	☐			554.47		P	4.0
8	☐			581.13		P	6.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			64.44		P	18.2
2	☐			77.78		P	25.8
3	☐			102.23		P	28.1
4	☐			113.34		P	39.6
5	☐			111.11		P	31.2
6	☐			182.23		P	5.3
7	☐			216.67		P	7.1
8	☐			236.67		P	7.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.56	0.0000	P	8.7
2	☐	1.000	0.903	7847.88	0.0013	P	2.1
3	☐	50.000	49.095	402880.16	0.0682	P	9.7
4	☐	125.000	115.118	1025196.18	0.1598	P	1.6
5	☐	250.000	250.901	2259065.17	0.3482	A	1.6
6	☐	500.000	506.236	4538948.89	0.7026	A	1.4
7	☐	1000.000	997.937	9084797.02	1.3850	A	1.0
8	☐			965.60	0.0002	P	12.8

$$y = 0.0014 * x + 2.8940E-005$$

$$R = 0.9999$$

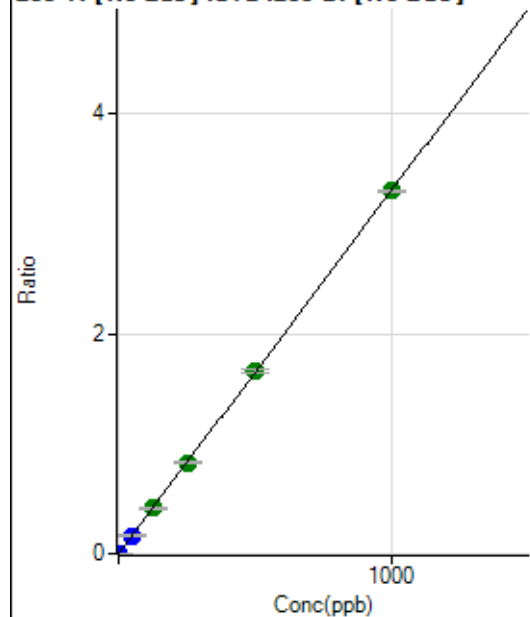
$$DL = 0.005432$$

$$BEC = 0.02085$$

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	410.01	0.0001	P	6.1
2	☐	1.000	0.896	18523.80	0.0030	P	1.1
3	☐	50.000	49.149	959672.75	0.1624	P	9.5
4	☐	125.000	124.722	2642597.37	0.4119	A	0.8
5	☐	250.000	250.419	5364375.13	0.8269	A	1.0
6	☐	500.000	502.096	10710428.59	1.6580	A	1.6
7	☐	1000.000	998.925	21636400.23	3.2985	A	0.7
8	☐			2373.56	0.0004	P	13.0

$$y = 0.0033 * x + 6.7533E-005$$

$$R = 1.0000$$

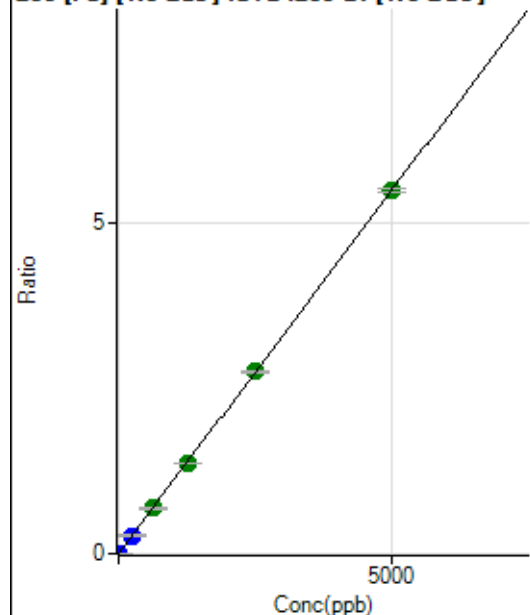
$$DL = 0.003764$$

$$BEC = 0.02045$$

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	835.59	0.0001	P	1.1
2	☐	1.000	0.875	6715.04	0.0011	P	0.5
3	☐	250.000	246.221	1598013.07	0.2702	P	8.4
4	☐	625.000	623.300	4386481.08	0.6837	A	0.6
5	☐	1250.000	1243.637	8848280.84	1.3640	A	1.3
6	☐	2500.000	2507.642	17767305.71	2.7502	A	1.1
7	☐	5000.000	4998.171	35955809.46	5.4816	A	0.9
8	☐			15255.30	0.0027	P	2.2

$$y = 0.0011 * x + 1.3768E-004$$

$$R = 1.0000$$

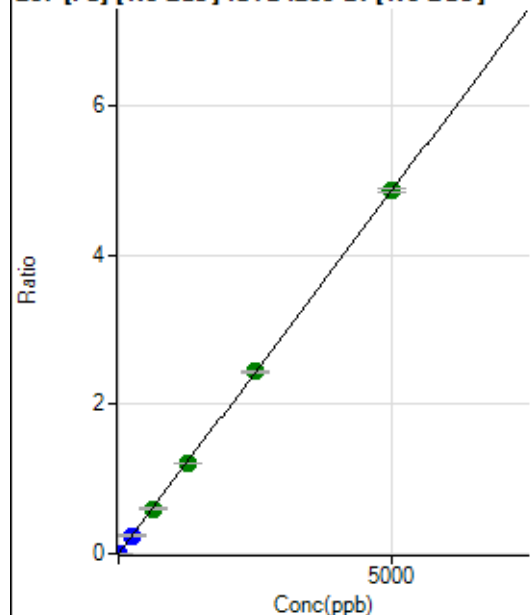
$$DL = 0.004096$$

$$BEC = 0.1255$$

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	728.91	0.0001	P	4.9
2	☐	1.000	0.903	6105.87	0.0010	P	0.6
3	☐	250.000	243.599	1399519.46	0.2367	P	9.1
4	☐	625.000	621.179	3871474.46	0.6034	A	1.8
5	☐	1250.000	1241.544	7822927.04	1.2059	A	1.4
6	☐	2500.000	2505.153	15719039.21	2.4332	A	1.5
7	☐	5000.000	5000.335	31856368.97	4.8566	A	1.1
8	☐			13416.73	0.0024	P	0.6

$$y = 9.7123E-004 * x + 1.2008E-004$$

$$R = 1.0000$$

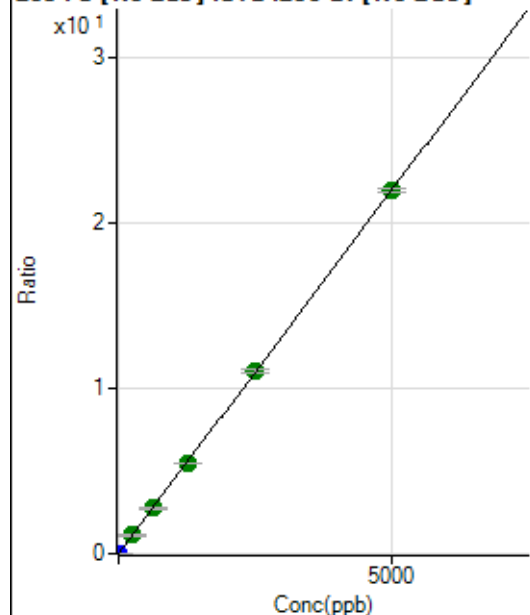
$$DL = 0.01825$$

$$BEC = 0.1236$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4181.48	0.0007	P	4.4
2	☐	1.000	0.892	28209.78	0.0046	P	0.9
3	☐	250.000	255.521	6638053.44	1.1230	A	9.5
4	☐	625.000	623.451	17572750.33	2.7390	A	0.9
5	☐	1250.000	1245.382	35488185.79	5.4706	A	0.8
6	☐	2500.000	2512.376	71290673.24	11.0355	A	1.5
7	☐	5000.000	4994.884	143906296.7	21.9391	A	1.1
8	☐			62345.97	0.0110	P	0.6

$$y = 0.0044 * x + 6.8915E-004$$

$$R = 1.0000$$

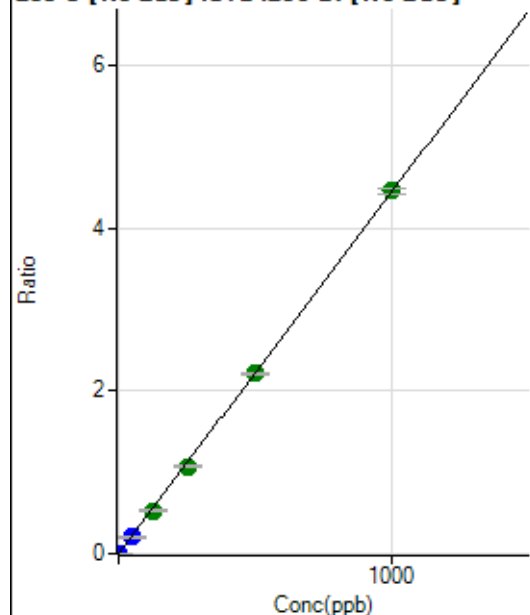
$$DL = 0.02054$$

$$BEC = 0.1569$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.56	0.0000	P	64.6
2	☐	1.000	0.815	22186.35	0.0036	P	1.8
3	☐	50.000	45.379	1191721.84	0.2016	P	9.1
4	☐	125.000	119.582	3407626.86	0.5311	A	1.8
5	☐	250.000	241.780	6965724.90	1.0739	A	2.8
6	☐	500.000	498.902	14315231.45	2.2159	A	1.4
7	☐	1000.000	1003.513	29235390.95	4.4571	A	1.6
8	☐			1434.54	0.0003	P	3.4

$$y = 0.0044 * x + 2.5536E-006$$

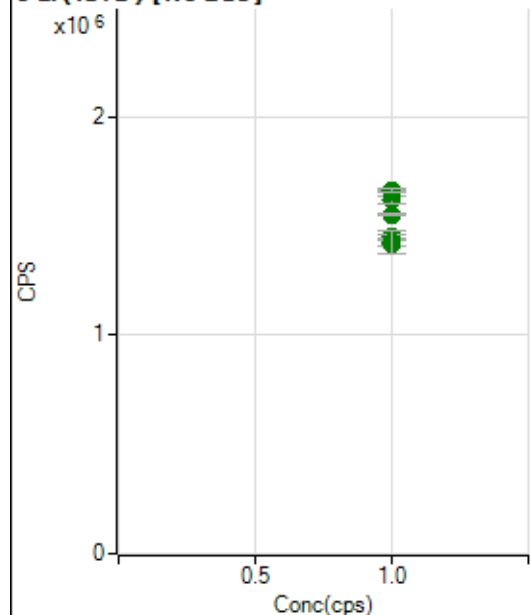
$$R = 1.0000$$

$$DL = 0.001114$$

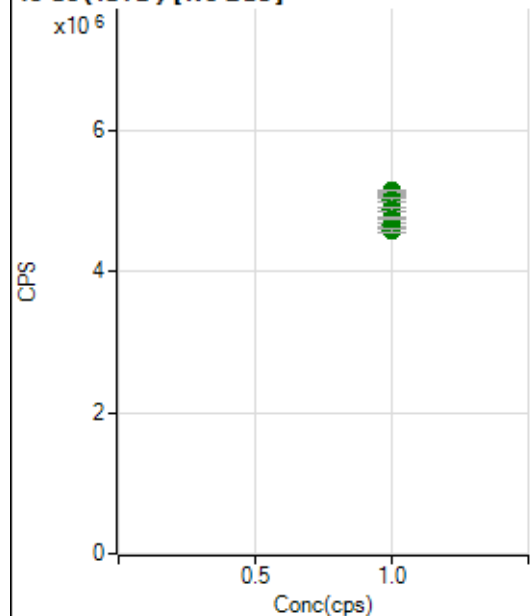
$$BEC = 0.0005749$$

Weight: <None>

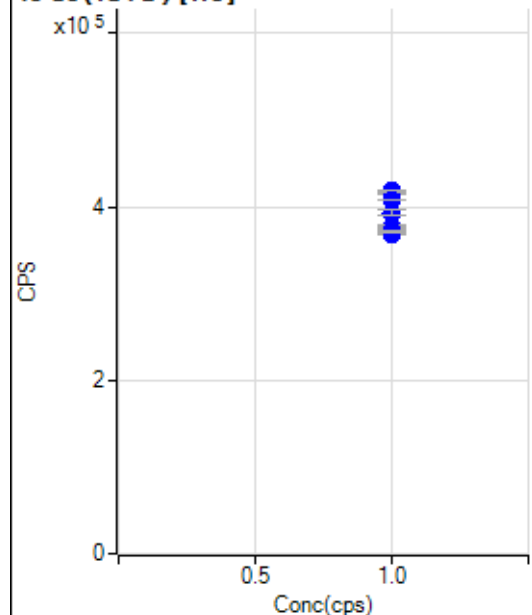
Min Conc: 0

6 Li (ISTD) [No Gas]

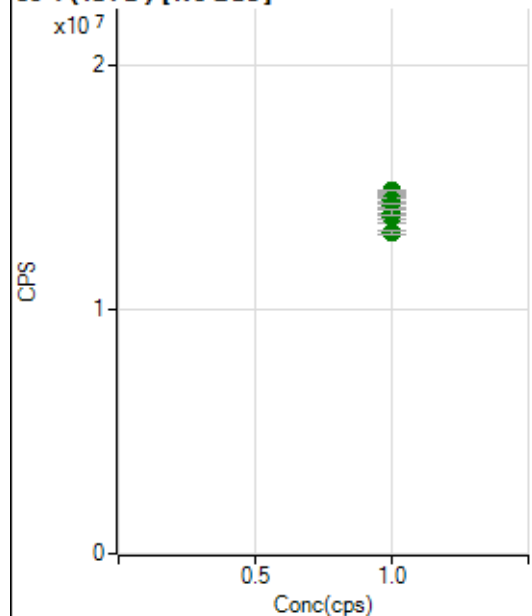
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1421104.94		A	1.5
2	☐	1.000		1454280.76		A	1.3
3	☐	1.000		1428244.03		A	7.1
4	☐	1.000		1552705.01		A	0.7
5	☐	1.000		1621167.44		A	2.1
6	☐	1.000		1660334.28		A	0.4
7	☐	1.000		1661916.38		A	1.0
8	☐	1.000		1551515.74		A	0.6

45 Sc (ISTD) [No Gas]

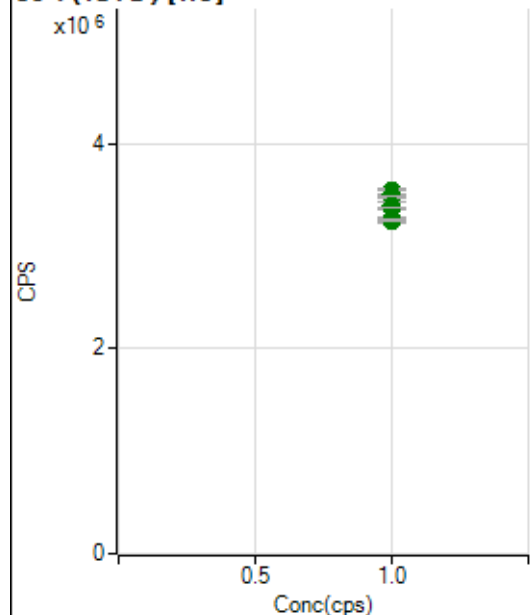
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5065687.25		A	1.5
2	☐	1.000		5140540.65		A	0.3
3	☐	1.000		4903129.54		A	6.8
4	☐	1.000		5008295.24		A	1.1
5	☐	1.000		4870014.44		A	0.9
6	☐	1.000		4656814.79		A	1.3
7	☐	1.000		4749989.17		A	0.7
8	☐	1.000		4584904.24		A	1.4

45 Sc (ISTD) [He]

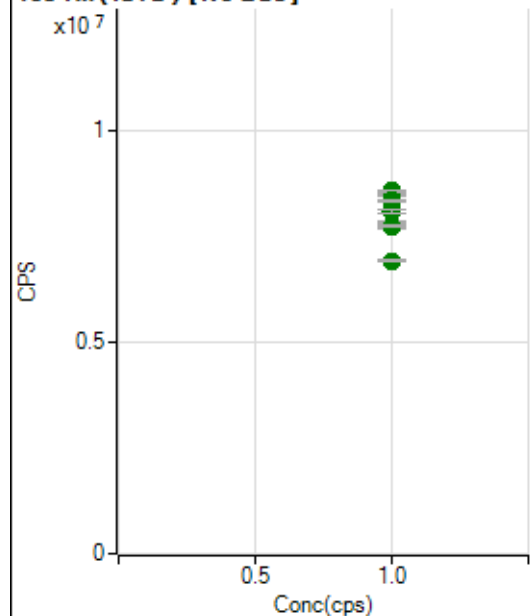
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		415059.24		P	0.4
2	☐	1.000		418272.66		P	0.6
3	☐	1.000		408645.79		P	0.1
4	☐	1.000		392794.29		P	1.7
5	☐	1.000		373244.48		P	0.6
6	☐	1.000		368126.96		P	0.4
7	☐	1.000		377405.38		P	0.5
8	☐	1.000		371366.71		P	0.6

89 Y (ISTD) [No Gas]

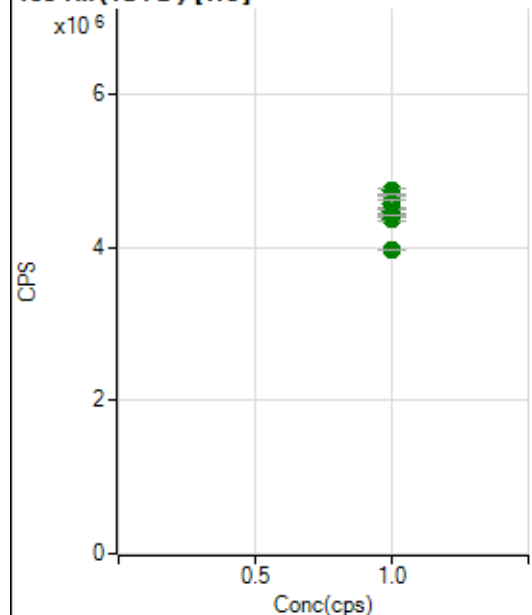
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14692220.61		A	0.7
2	☐	1.000		14880943.53		A	0.3
3	☐	1.000		14157047.71		A	8.5
4	☐	1.000		14535802.98		A	1.3
5	☐	1.000		14275411.45		A	1.4
6	☐	1.000		13822606.74		A	1.9
7	☐	1.000		13992131.46		A	1.4
8	☐	1.000		13153502.16		A	1.3

89 Y (ISTD) [He]

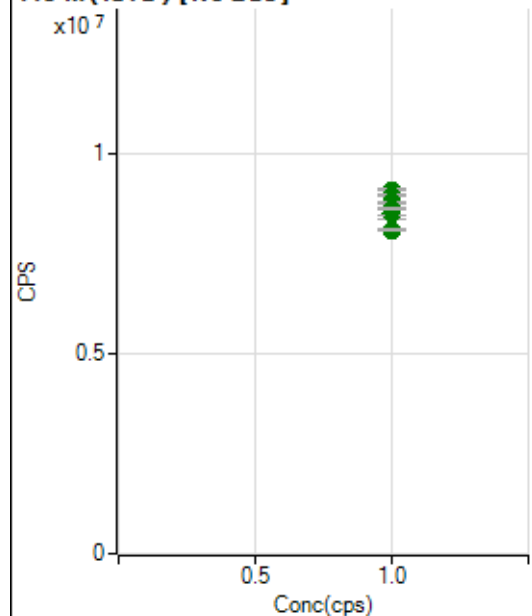
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3535387.48		A	1.4
2	☐	1.000		3512521.20		A	1.6
3	☐	1.000		3476439.50		A	0.7
4	☐	1.000		3393592.72		A	2.5
5	☐	1.000		3267708.63		A	1.2
6	☐	1.000		3247988.74		A	1.9
7	☐	1.000		3372106.72		A	0.2
8	☐	1.000		3251906.62		A	1.1

103 Rh (ISTD) [No Gas]

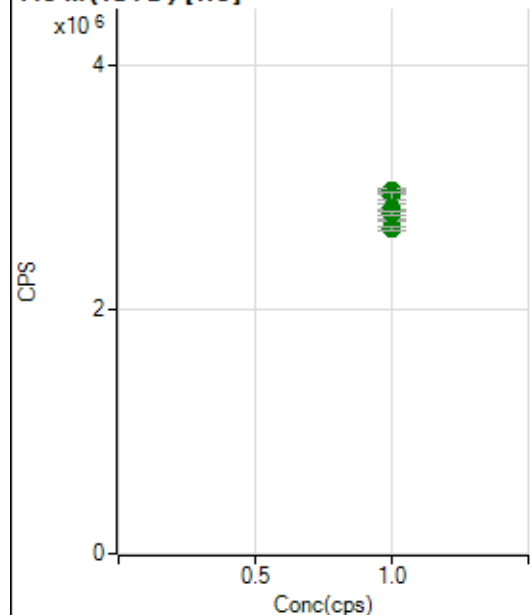
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8482217.86		A	0.6
2	☐	1.000		8567697.02		A	0.4
3	☐	1.000		8136452.73		A	7.9
4	☐	1.000		8344150.29		A	0.7
5	☐	1.000		8090882.31		A	1.0
6	☐	1.000		7758784.81		A	2.0
7	☐	1.000		7736871.13		A	0.3
8	☐	1.000		6907121.42		A	0.6

103 Rh (ISTD) [He]

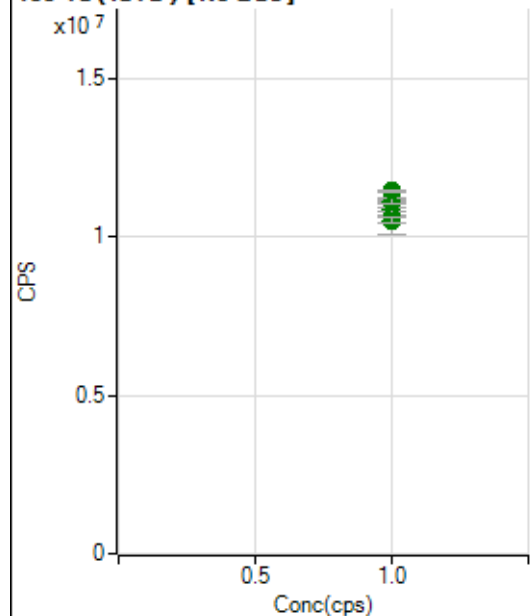
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4743495.35		A	1.5
2	☐	1.000		4740512.71		A	1.4
3	☐	1.000		4693228.96		A	0.2
4	☐	1.000		4564682.57		A	2.2
5	☐	1.000		4474916.53		A	0.9
6	☐	1.000		4376927.75		A	1.2
7	☐	1.000		4430235.21		A	0.3
8	☐	1.000		3976743.79		A	0.3

115 In (ISTD) [No Gas]

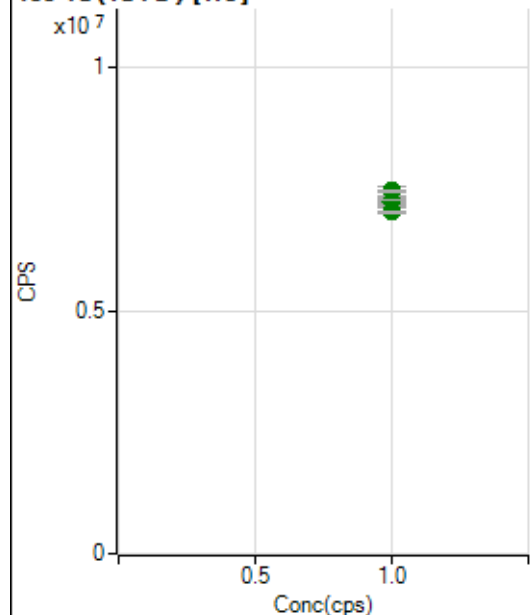
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8949705.86		A	0.4
2	☐	1.000		9052155.25		A	1.3
3	☐	1.000		8716462.54		A	8.0
4	☐	1.000		8945025.18		A	0.4
5	☐	1.000		8758718.75		A	0.5
6	☐	1.000		8501909.67		A	1.5
7	☐	1.000		8596541.96		A	0.7
8	☐	1.000		8069982.13		A	0.4

115 In (ISTD) [He]

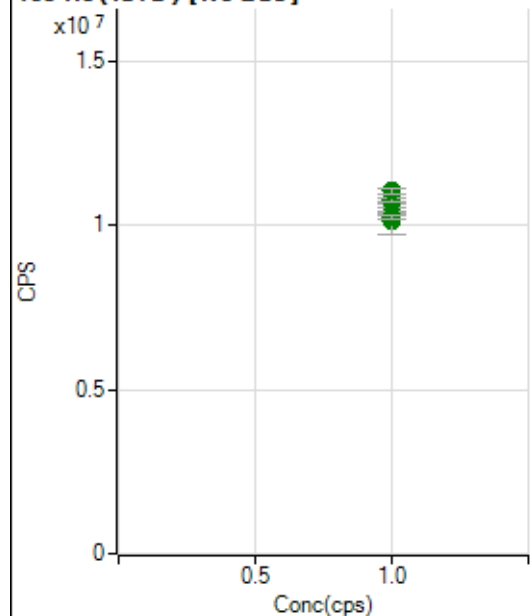
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2952221.97		A	1.2
2	☐	1.000		2965407.08		A	1.6
3	☐	1.000		2923461.90		A	1.7
4	☐	1.000		2829137.87		A	2.3
5	☐	1.000		2806713.91		A	0.4
6	☐	1.000		2723496.51		A	0.7
7	☐	1.000		2783437.19		A	0.7
8	☐	1.000		2656420.18		A	0.8

159 Tb (ISTD) [No Gas]

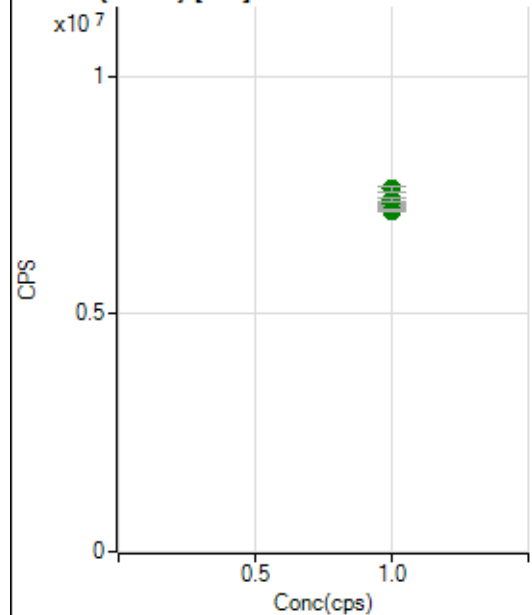
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10651816.37		A	0.5
2	☐	1.000		10866431.09		A	0.9
3	☐	1.000		10623106.30		A	9.7
4	☐	1.000		11130035.25		A	1.4
5	☐	1.000		11173992.20		A	0.4
6	☐	1.000		11142215.11		A	1.5
7	☐	1.000		11460573.02		A	0.5
8	☐	1.000		10519494.77		A	1.6

159 Tb (ISTD) [He]

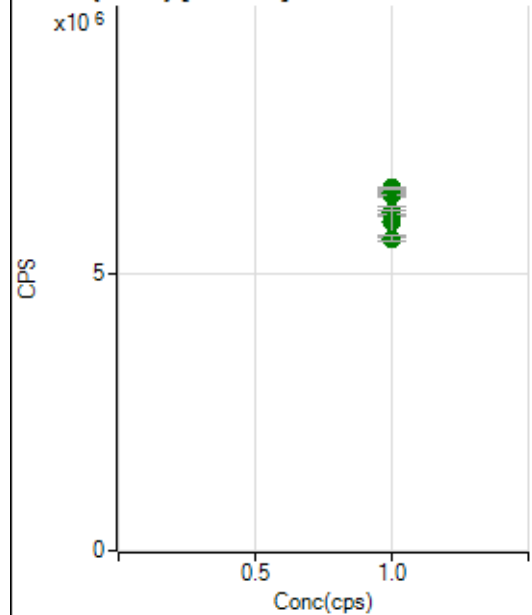
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7176331.42		A	0.6
2	☐	1.000		7160001.84		A	1.5
3	☐	1.000		7256215.10		A	0.7
4	☐	1.000		7226365.86		A	2.0
5	☐	1.000		7274410.03		A	0.5
6	☐	1.000		7460508.85		A	2.9
7	☐	1.000		7461178.50		A	0.6
8	☐	1.000		7026603.72		A	0.8

165 Ho (ISTD) [No Gas]

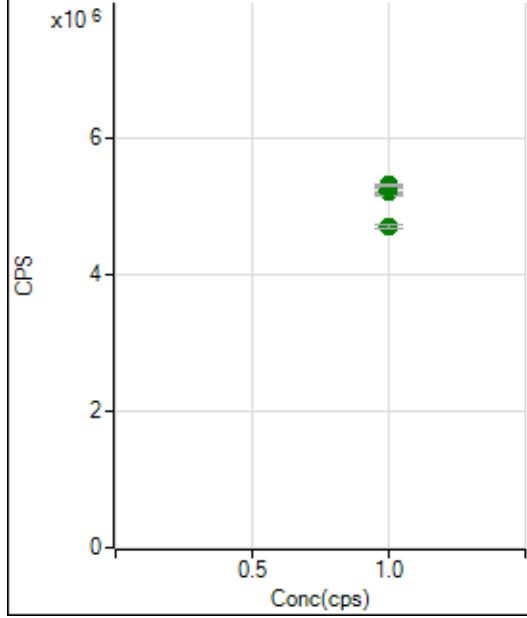
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10341594.78		A	0.6
2	☐	1.000		10402386.58		A	0.7
3	☐	1.000		10149713.04		A	8.0
4	☐	1.000		10717904.84		A	0.5
5	☐	1.000		10774814.15		A	0.8
6	☐	1.000		10766693.31		A	1.2
7	☐	1.000		11054347.75		A	1.7
8	☐	1.000		10269263.39		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7251438.02		A	0.4
2	☐	1.000		7225283.57		A	0.9
3	☐	1.000		7339426.56		A	0.6
4	☐	1.000		7269382.53		A	3.0
5	☐	1.000		7332500.38		A	0.9
6	☐	1.000		7419052.60		A	1.0
7	☐	1.000		7637349.40		A	1.3
8	☐	1.000		7171036.70		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6069105.26		A	0.9
2	☐	1.000		6122203.59		A	0.8
3	☐	1.000		5944253.94		A	8.9
4	☐	1.000		6415729.00		A	0.2
5	☐	1.000		6487259.84		A	0.6
6	☐	1.000		6460842.54		A	1.3
7	☐	1.000		6559567.75		A	0.4
8	☐	1.000		5645386.72		A	1.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5247759.58		A	0.7
2	☐	1.000		5237013.67		A	1.6
3	☐	1.000		5277721.94		A	0.2
4	☐	1.000		5222334.23		A	1.9
5	☐	1.000		5282515.72		A	0.8
6	☐	1.000		5289702.67		A	0.4
7	☐	1.000		5319817.70		A	0.6
8	☐	1.000		4706848.78		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7080824MS1.b

Acq. Date-Time 2024-08-08 13:05:13

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		7562	75617.94			0.393	5.000
24		114007	1140068.80			1.288	5.000
25		15345	153452.07			1.408	5.000
26		18536	185357.78			1.041	5.000
59		86180	861797.67			0.383	5.000
113		12672	126722.21			0.872	5.000
115		152149	1521491.39			0.749	5.000
206		28554	285536.23			0.424	5.000
207		25843	258429.70			0.719	5.000
208		60879	608790.82			0.473	5.000
220		1	10.30			14.804	

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

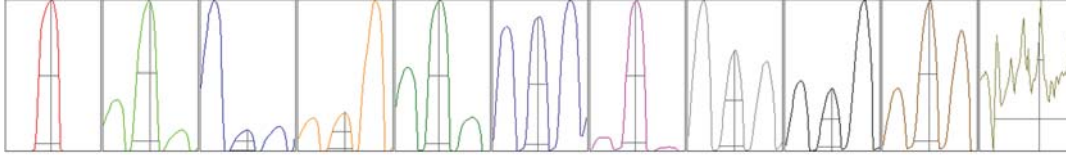
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7597	7587	7557	7533	7534
24	112379	112597	114362	115712	114985
25	14999	15271	15451	15516	15489
26	18219	18492	18640	18702	18626
59	85943	86146	86546	86479	85785
113	12750	12666	12753	12707	12485
115	153375	151436	153263	151896	150777
206	28482	28473	28717	28649	28447
207	25689	25796	26085	25985	25660
208	60995	60476	61034	61193	60698

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12294.68	8.95	8.90 - 9.10	
24	194327.36	24.00	23.90 - 24.10	
25	26562.86	25.00	24.90 - 25.10	
26	31121.32	26.00	25.90 - 26.10	
59	140961.06	58.90	58.90 - 59.10	
113	22653.89	112.95	112.90 - 113.10	
115	271704.70	114.95	114.90 - 115.10	
206	53430.81	206.00	205.90 - 206.10	
207	47605.81	207.00	206.90 - 207.10	
208	113617.38	208.00	207.90 - 208.10	
220	1.45	220.40	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.63	0.843	0.900	
25	0.60	0.782	0.900	
26	0.60	0.782	0.900	
59	0.65	0.787	0.900	
113	0.56	0.764	0.900	
115	0.57	0.776	0.900	
206	0.55	0.774	0.900	
207	0.55	0.769	0.900	
208	0.55	0.787	0.900	
220	0.19	2.512		

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	7.2 V	Deflect	16.4 V
Extract 2	-120.0 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	136	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2323 V	Pulse HV	1462 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28381	283809.95			0.616	
89		29343	293427.66			0.806	
205		32219	322189.64			0.865	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28633	28481	28251	28328	28212
89	29655	29483	29323	29207	29046
205	32703	32133	32048	32022	32188

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	9.7 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 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	136	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2323 V	Pulse HV	1462 V
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