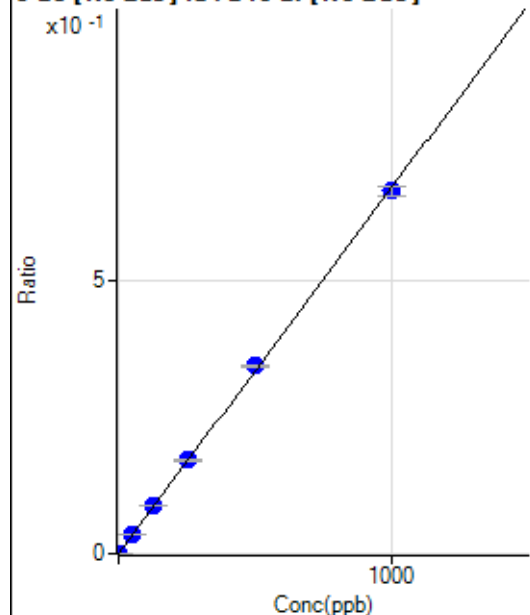


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050421MS.b\
Analysis File: P8050421MS.batch.bin
DA Date-Time: 2021-05-04 16:27:15
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-05-04 13:34:12
2	006CALS.d	S02	2021-05-04 13:40:16
3	007CALS.d	S03	2021-05-04 13:43:17
4	008CALS.d	S04	2021-05-04 13:46:19
5	009CALS.d	S05	2021-05-04 13:49:17
6	010CALS.d	S06	2021-05-04 13:52:17
7	012CALS.d	S07	2021-05-04 13:58:17
8	013CALS.d	S08	2021-05-04 14:01:15

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.66	0.0000	P	68.2
2	☐	1.000	1.039	677.22	0.0007	P	6.4
3	☐	50.000	51.480	31411.73	0.0345	P	1.8
4	☐	125.000	129.571	83323.89	0.0868	P	1.2
5	☐	250.000	255.076	158162.11	0.1708	P	2.0
6	☐	500.000	512.999	328568.94	0.3434	P	1.2
7	☐	1000.000	991.586	646157.56	0.6638	P	3.0
8	☐			71.99	0.0001	P	15.2

$$y = 6.6946\text{E-}004 * x + 1.5455\text{E-}005$$

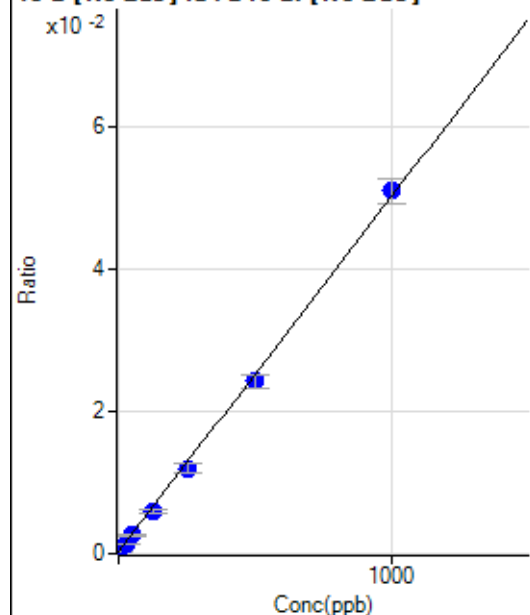
$$R = 0.9999$$

$$DL = 0.04721$$

$$BEC = 0.02309$$

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	287.95	0.0003	P	4.7
2	☐	25.000	22.101	1343.13	0.0014	P	8.3
3	☐	50.000	46.036	2374.40	0.0026	P	7.3
4	☐	125.000	112.631	5702.67	0.0059	P	10.5
5	☐	250.000	234.028	11107.37	0.0120	P	12.3
6	☐	500.000	479.021	23208.38	0.0242	P	8.2
7	☐	1000.000	1016.299	49779.29	0.0511	P	6.8
8	☐			8703.54	0.0100	P	6.6

$$y = 4.9985\text{E-}005 * x + 3.0537\text{E-}004$$

$$R = 0.9995$$

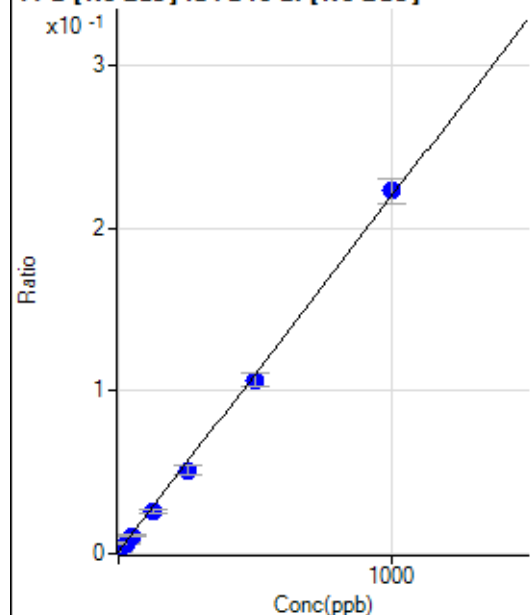
$$DL = 0.8574$$

$$BEC = 6.109$$

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	1195.82	0.0013	P	1.6
2	☐	25.000	23.468	6087.41	0.0064	P	9.2
3	☐	50.000	45.173	10133.50	0.0111	P	8.1
4	☐	125.000	115.522	25433.64	0.0265	P	9.0
5	☐	250.000	229.557	47527.23	0.0514	P	10.5
6	☐	500.000	482.503	101976.52	0.1065	P	8.0
7	☐	1000.000	1015.323	216956.79	0.2228	P	6.7
8	☐			37554.30	0.0431	P	6.3

$$y = 2.1818E-004 * x + 0.0013$$

R = 0.9996

DL = 0.2864

BEC = 5.812

Weight: <None>

Min Conc: 0

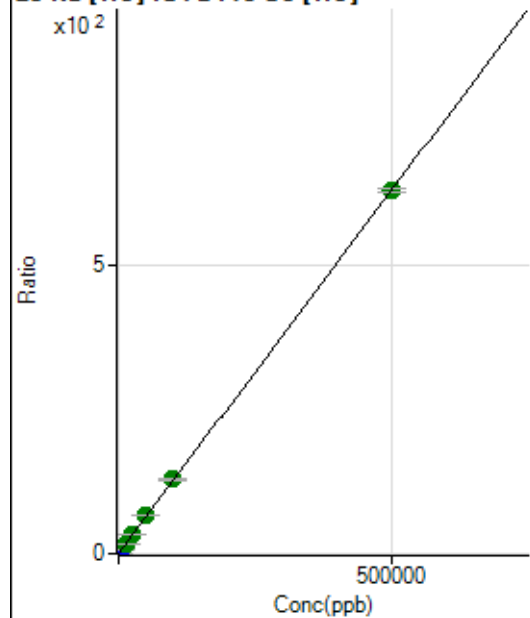
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2778390.25		A	0.6
2	☐			2802993.77		A	1.1
3	☐			3058998.51		A	1.9
4	☐			3175766.09		A	1.8
5	☐			3264299.53		A	1.5
6	☐			3368529.46		A	1.5
7	☐			3421399.64		A	1.4
8	☐			3247339.61		A	1.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32336.25		P	1.2
2	☐			33082.24		P	0.7
3	☐			36710.37		P	1.3
4	☐			39286.42		P	1.7
5	☐			39918.74		P	0.9
6	☐			41899.01		P	1.0
7	☐			43096.98		P	1.4
8	☐			42269.61		P	2.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25901.34	0.3609	P	1.8
2	☐	500.000	525.920	71533.96	1.0234	P	2.9
3	☐	5000.000	4983.240	494032.08	6.6386	P	4.7
4	☐	12500.000	13547.804	1253997.13	17.4279	A	0.7
5	☐	25000.000	26642.370	2325573.69	33.9239	A	4.6
6	☐	50000.000	51891.647	4712858.83	65.7319	A	0.4
7	☐	100000.00	102499.22	9229805.59	129.4853	A	1.7
8	☐	500000.00	499202.81	43681890.56	629.2365	A	0.9

$$y = 0.0013 * x + 0.3609$$

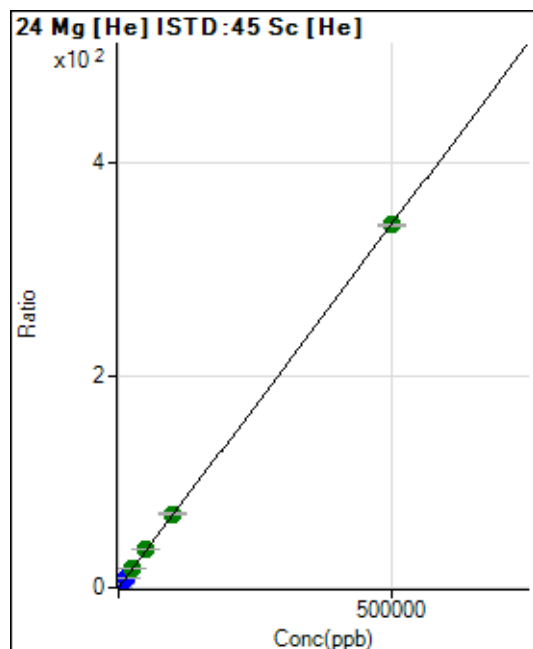
$$R = 1.0000$$

$$DL = 15.78$$

$$BEC = 286.5$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	313.90	0.0044	P	16.8
2	☐	500.000	514.015	24891.16	0.3563	P	6.4
3	☐	5000.000	5028.876	256468.33	3.4478	P	6.0
4	☐	12500.000	13208.244	651044.61	9.0485	P	0.8
5	☐	25000.000	26733.396	1255298.52	18.3096	A	4.3
6	☐	50000.000	52203.510	2563043.92	35.7499	A	1.8
7	☐	100000.00	101095.02	4934257.57	69.2276	A	2.2
8	☐	500000.00	499455.96	23742204.70	341.9988	A	0.7

$$y = 6.8473\text{E-}004 * x + 0.0044$$

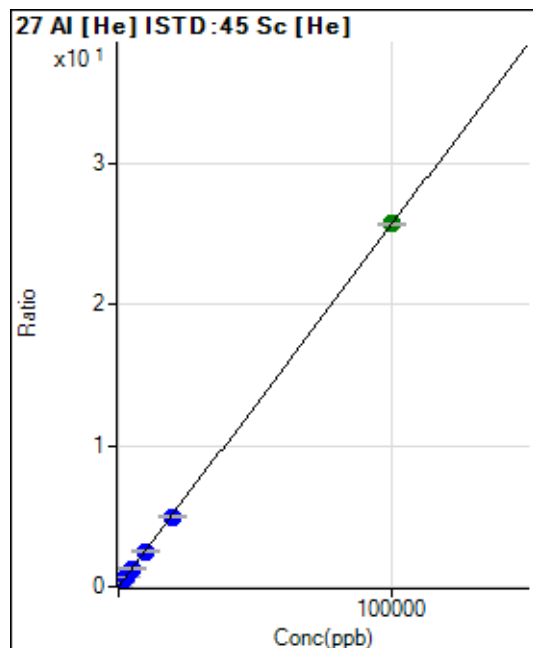
R = 1.0000

DL = 3.217

BEC = 6.385

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.14	0.0034	P	8.2
2	☐	20.000	20.915	613.27	0.0088	P	0.9
3	☐	1000.000	948.005	18337.56	0.2465	P	5.7
4	☐	2500.000	2533.489	46985.19	0.6530	P	1.1
5	☐	5000.000	4980.146	87797.10	1.2804	P	3.6
6	☐	10000.000	9759.259	179652.26	2.5058	P	1.1
7	☐	20000.000	19212.236	351366.08	4.9297	P	2.0
8	☐	100000.00	100182.30	1783638.12	25.6918	A	0.2

$$y = 2.5642\text{E-}004 * x + 0.0034$$

R = 1.0000

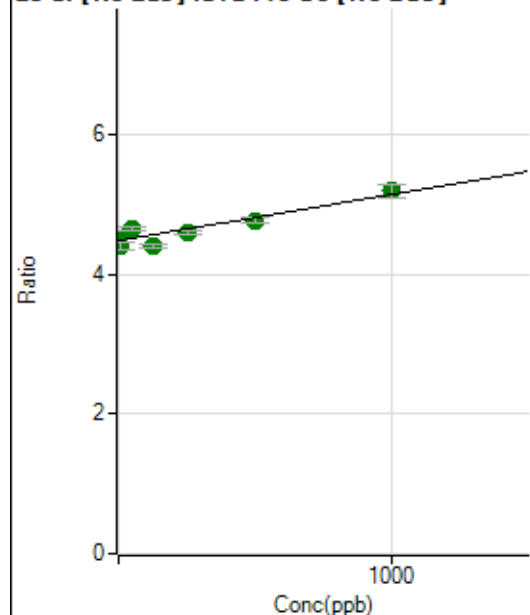
DL = 3.278

BEC = 13.27

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	7694577.95	4.4921	A	1.3
2	☐	10.000	-123.109	7724588.97	4.4107	A	2.1
3	☐	50.000	245.812	7778466.92	4.6544	A	1.3
4	☐	125.000	-131.302	7745689.23	4.4053	A	1.2
5	☐	250.000	182.047	7900186.29	4.6123	A	1.0
6	☐	500.000	431.268	8310541.24	4.7769	A	1.8
7	☐	1000.000	1074.932	9207494.47	5.2021	A	3.9
8	☐			7975810.42	4.7998	A	2.0

$$y = 6.6052E-004 * x + 4.4921$$

$$R = 0.9414$$

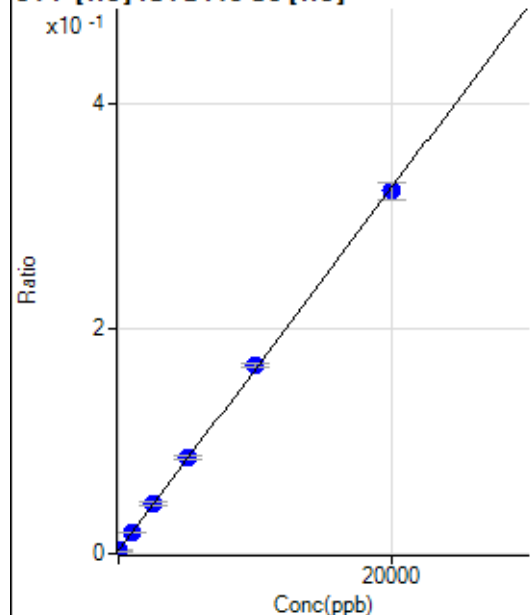
$$DL = 274.1$$

$$BEC = 6801$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	25.685	222.23	0.0031	P	23.8
2	☐	0.000	-25.685	158.34	0.0023	P	7.0
3	☐	1000.000	1004.995	1405.66	0.0189	P	5.3
4	☐	2500.000	2619.849	3230.99	0.0449	P	7.2
5	☐	5000.000	5145.055	5876.35	0.0856	P	3.4
6	☐	10000.000	10238.049	12027.52	0.1678	P	2.1
7	☐	20000.000	19829.481	22982.62	0.3224	P	4.6
8	☐			244.45	0.0035	P	36.0

$$y = 1.6125E-005 * x + 0.0027$$

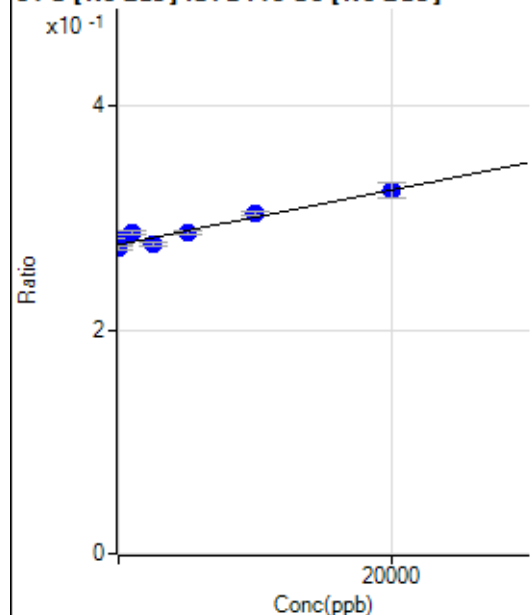
$$R = 0.9998$$

$$DL = 83.3$$

$$BEC = 166.2$$

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	1394.675	479690.47	0.2801	P	2.0
2	☐	0.000	-1394.675	478599.68	0.2733	P	1.5
3	☐	1000.000	4544.839	480886.16	0.2878	P	1.2
4	☐	2500.000	230.492	487452.26	0.2772	P	0.8
5	☐	5000.000	4364.534	492100.65	0.2873	P	1.6
6	☐	10000.000	11276.515	529195.04	0.3042	P	1.3
7	☐	20000.000	19627.056	574337.56	0.3245	P	4.3
8	☐			416306.06	0.2505	P	2.7

$$y = 2.4387E-006 * x + 0.2767$$

$$R = 0.9638$$

$$DL = 5928$$

$$BEC = 1.135E+05$$

Weight: <None>

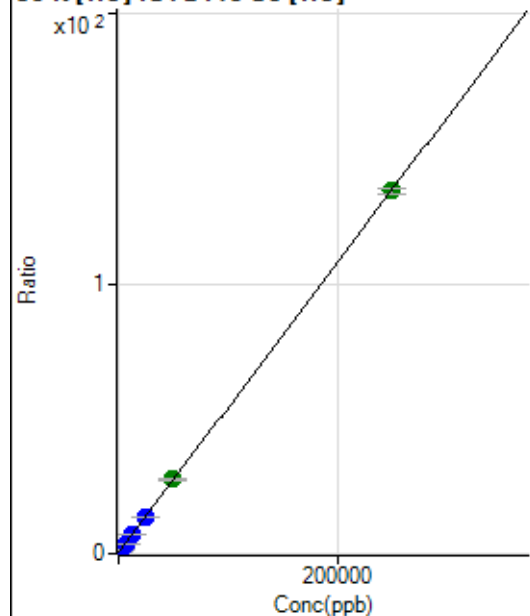
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			201559.91		P	0.4
2	☐			194140.74		P	0.2
3	☐			232805.88		P	2.7
4	☐			244527.26		P	1.4
5	☐			239111.61		P	1.6
6	☐			228970.54		P	2.2
7	☐			214622.40		P	1.6
8	☐			205124.26		P	1.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2069.66		P	3.1
2	☐			1925.18		P	4.9
3	☐			2619.75		P	6.9
4	☐			2717.01		P	12.4
5	☐			2486.39		P	1.1
6	☐			2314.13		P	2.8
7	☐			2330.82		P	3.2
8	☐			2203.01		P	6.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27376.57	0.3815	P	2.1
2	☐	500.000	514.315	45940.34	0.6572	P	2.4
3	☐	2500.000	2417.149	124831.54	1.6771	P	4.2
4	☐	6250.000	6348.201	272266.07	3.7842	P	1.5
5	☐	12500.000	12626.466	490214.73	7.1495	P	3.8
6	☐	25000.000	24881.073	983546.84	13.7182	P	0.4
7	☐	50000.000	50810.208	1968375.39	27.6167	A	2.3
8	☐	250000.00	249841.87	9322777.38	134.3011	A	1.7

$$y = 5.3602E-004 * x + 0.3815$$

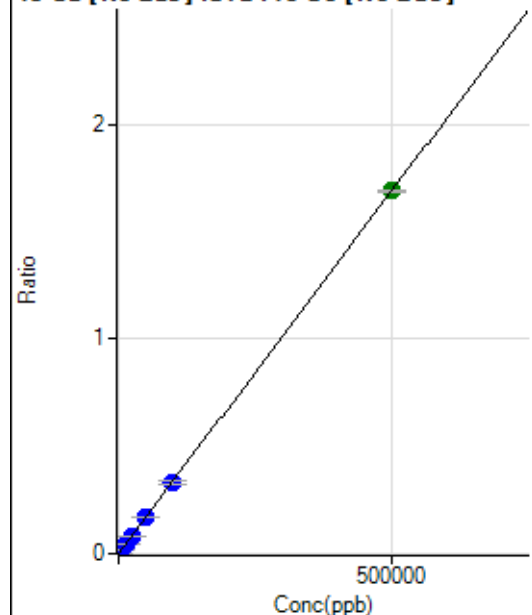
$$R = 1.0000$$

$$DL = 44.45$$

$$BEC = 711.7$$

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	174.15	0.0001	P	13.1
2	☐	500.000	466.145	2936.61	0.0017	P	2.6
3	☐	5000.000	4979.098	28286.17	0.0169	P	0.2
4	☐	12500.000	12641.110	75266.21	0.0428	P	2.5
5	☐	25000.000	24610.838	142600.86	0.0833	P	1.3
6	☐	50000.000	50408.611	296482.87	0.1704	P	1.2
7	☐	100000.00	98056.386	586747.87	0.3314	P	2.9
8	☐	500000.00	500364.03	2809716.16	1.6906	A	0.6

$$y = 3.3786E-006 * x + 1.0184E-004$$

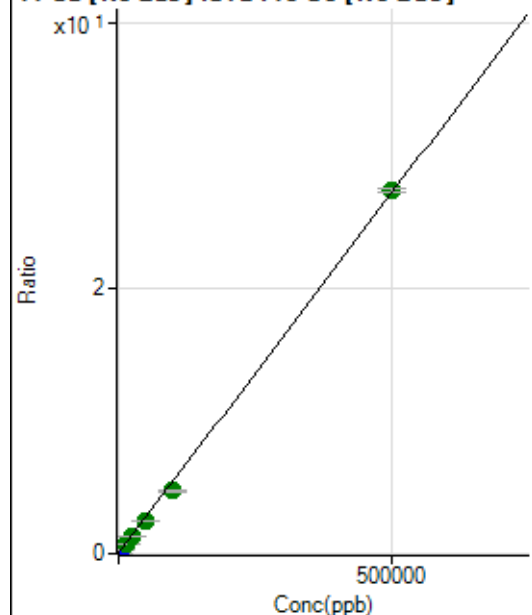
$$R = 1.0000$$

$$DL = 11.81$$

$$BEC = 30.14$$

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	57422.15	0.0335	P	2.5
2	☐	500.000	445.328	100990.77	0.0577	P	1.0
3	☐	5000.000	4289.978	444568.04	0.2660	P	0.3
4	☐	12500.000	11599.331	1163992.25	0.6621	A	2.4
5	☐	25000.000	22423.233	2138852.13	1.2486	A	0.8
6	☐	50000.000	44792.142	4281217.23	2.4607	A	2.0
7	☐	100000.00	86863.530	8391936.43	4.7405	A	3.2
8	☐	500000.00	503306.59	45379860.68	27.3066	A	1.1

$$y = 5.4188E-005 * x + 0.0335$$

$$R = 0.9996$$

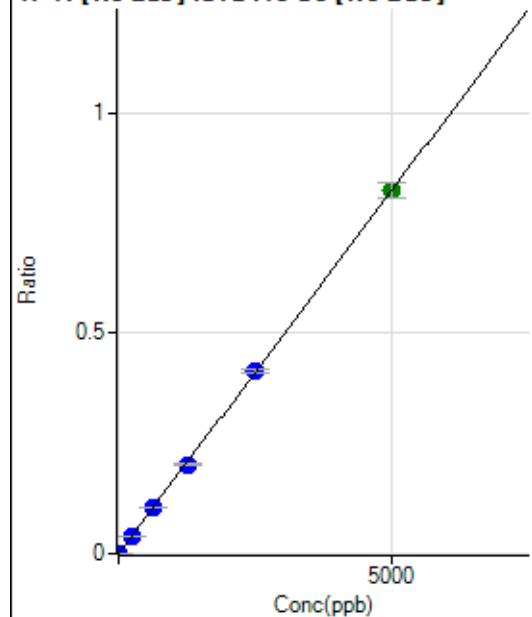
$$DL = 46.68$$

$$BEC = 618.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	261.12	0.0002	P	15.5
2	☐	5.000	4.996	1708.48	0.0010	P	5.6
3	☐	250.000	246.382	68044.99	0.0407	P	1.1
4	☐	625.000	632.129	183235.14	0.1042	P	2.6
5	☐	1250.000	1224.871	345721.00	0.2018	P	2.2
6	☐	2500.000	2511.190	719527.93	0.4136	P	1.6
7	☐	5000.000	4999.977	1457240.89	0.8233	A	4.1
8	☐			505.58	0.0003	P	6.1

$$y = 1.6463\text{E-}004 * x + 1.5252\text{E-}004$$

$$R = 1.0000$$

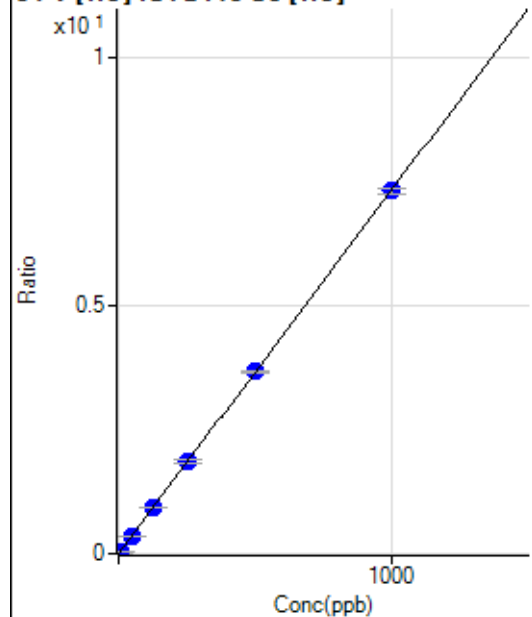
$$DL = 0.4299$$

$$BEC = 0.9264$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.67	0.0001	P	49.6
2	☐	5.000	5.282	2713.62	0.0388	P	5.5
3	☐	50.000	48.468	26448.98	0.3556	P	6.6
4	☐	125.000	128.404	67768.30	0.9419	P	0.9
5	☐	250.000	252.981	127236.89	1.8556	P	3.8
6	☐	500.000	501.554	263742.64	3.6788	P	1.3
7	☐	1000.000	998.128	521824.12	7.3210	P	1.4
8	☐			97.78	0.0014	P	15.9

$$y = 0.0073 * x + 9.2593\text{E-}005$$

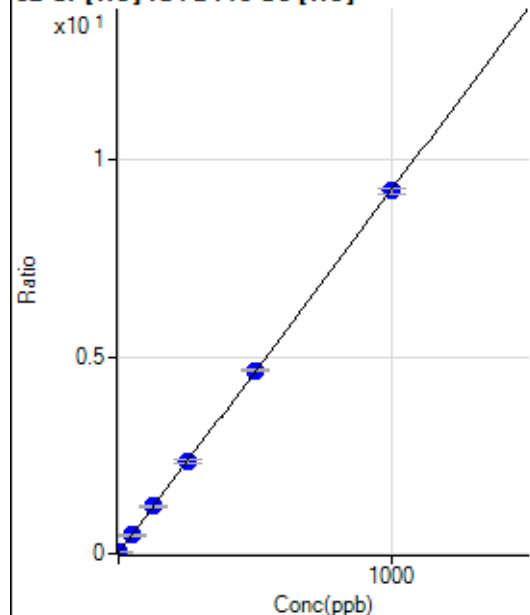
$$R = 1.0000$$

$$DL = 0.0188$$

$$BEC = 0.01262$$

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	991.16	0.0138	P	6.4
2	☐	2.000	2.162	2358.00	0.0337	P	3.9
3	☐	50.000	49.237	34804.50	0.4676	P	4.5
4	☐	125.000	128.862	86444.60	1.2015	P	1.1
5	☐	250.000	253.246	160972.15	2.3479	P	4.1
6	☐	500.000	503.046	333392.30	4.6502	P	0.9
7	☐	1000.000	997.220	656101.66	9.2048	P	1.6
8	☐			5002.02	0.0721	P	2.7

$$y = 0.0092 * x + 0.0138$$

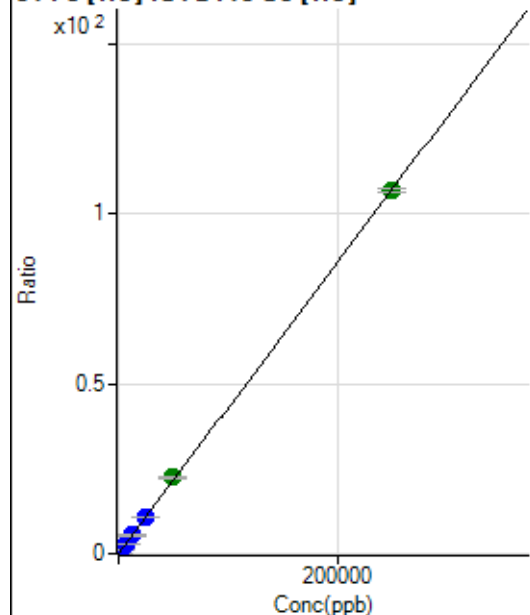
$$R = 1.0000$$

$$DL = 0.2892$$

$$BEC = 1.499$$

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	687.06	0.0096	P	5.6
2	☐	50.000	47.856	2098.34	0.0300	P	4.0
3	☐	2500.000	2434.756	78145.90	1.0504	P	5.6
4	☐	6250.000	6376.897	196822.29	2.7355	P	0.6
5	☐	12500.000	12634.473	370947.79	5.4104	P	4.0
6	☐	25000.000	24782.515	760218.82	10.6033	P	0.6
7	☐	50000.000	52241.245	1592221.69	22.3411	A	2.7
8	☐	250000.00	249564.25	7406367.06	106.6908	A	1.2

$$y = 4.2747E-004 * x + 0.0096$$

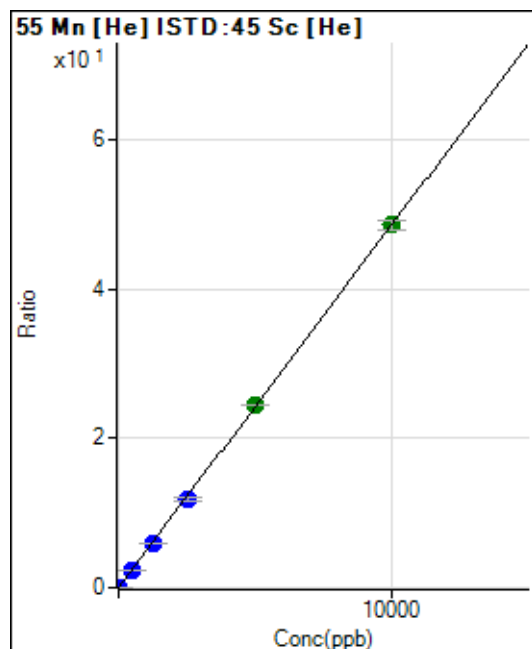
$$R = 1.0000$$

$$DL = 3.739$$

$$BEC = 22.38$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	110.00	0.0015	P	6.8
2	☐	1.000	1.061	467.79	0.0067	P	3.1
3	☐	500.000	470.840	170459.05	2.2913	P	5.8
4	☐	1250.000	1230.267	430582.35	5.9846	P	1.1
5	☐	2500.000	2435.771	812382.63	11.8473	P	3.5
6	☐	5000.000	5027.206	1753000.77	24.4500	A	0.3
7	☐	10000.000	10006.379	3468343.70	48.6649	A	2.6
8	☐			1865.69	0.0269	P	3.9

$$y = 0.0049 * x + 0.0015$$

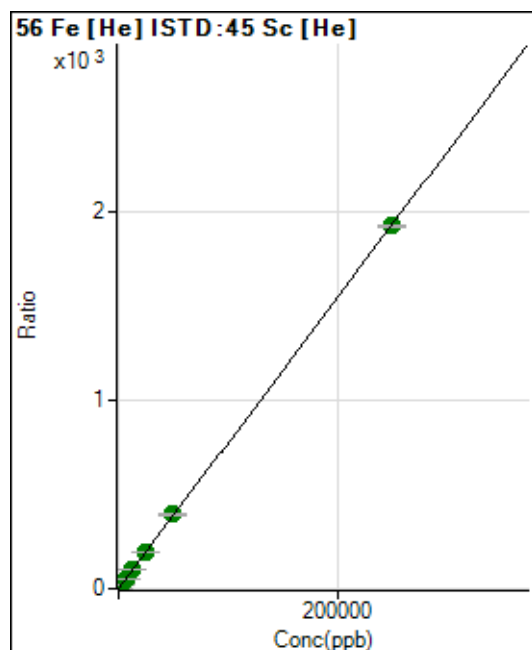
$$R = 1.0000$$

$$DL = 0.06416$$

$$BEC = 0.315$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2461.36	0.0343	P	4.9
2	☐	50.000	51.487	30193.27	0.4319	P	2.1
3	☐	2500.000	2533.275	1457611.58	19.5955	A	6.0
4	☐	6250.000	6639.532	3690994.15	51.3028	A	1.7
5	☐	12500.000	13076.692	6926154.78	101.0085	A	3.6
6	☐	25000.000	25523.427	14132411.08	197.1184	A	0.9
7	☐	50000.000	51078.111	28112473.31	394.4439	A	2.4
8	☐	250000.00	249693.12	133855256.6	1,928.088	A	0.3

$$y = 0.0077 * x + 0.0343$$

$$R = 1.0000$$

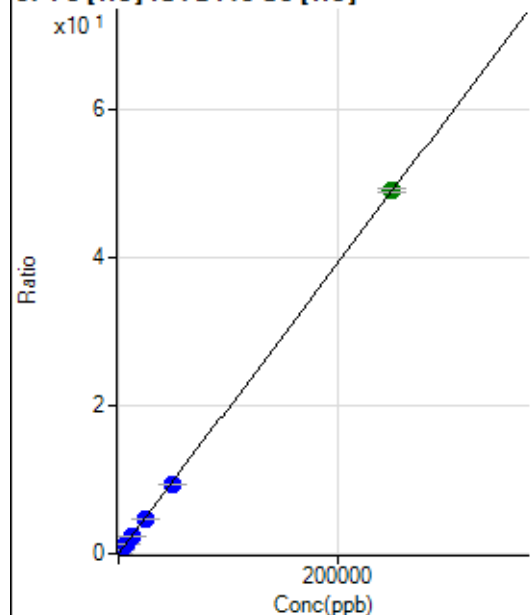
$$DL = 0.6518$$

$$BEC = 4.443$$

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	70.37	0.0010	P	46.9
2	☐	50.000	53.548	801.89	0.0115	P	6.1
3	☐	2500.000	2374.879	34603.13	0.4652	P	6.3
4	☐	6250.000	6190.618	87136.34	1.2112	P	2.0
5	☐	12500.000	12306.593	165024.68	2.4068	P	3.7
6	☐	25000.000	24240.902	339817.05	4.7397	P	0.6
7	☐	50000.000	47734.923	665177.52	9.3325	P	1.8
8	☐	250000.00	250541.33	3400105.37	48.9783	A	0.9

$$y = 1.9549\text{E-}004 * x + 9.8436\text{E-}004$$

$$R = 1.0000$$

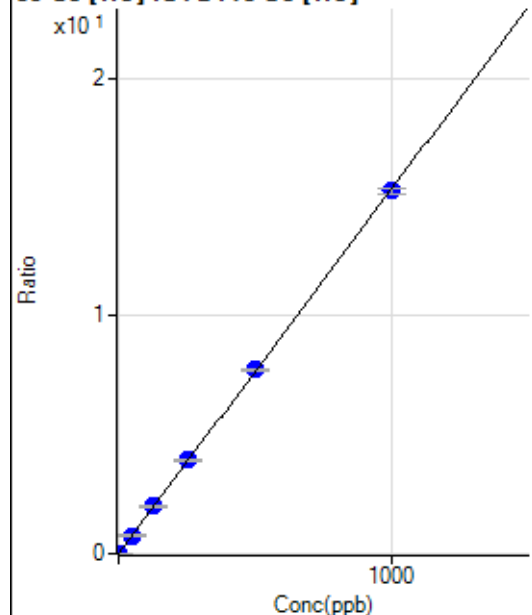
$$DL = 7.086$$

$$BEC = 5.035$$

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	52.22	0.0007	P	8.7
2	☐	1.000	1.052	1176.73	0.0169	P	9.9
3	☐	50.000	49.076	56034.16	0.7534	P	6.5
4	☐	125.000	129.271	142700.09	1.9834	P	1.4
5	☐	250.000	256.487	269789.71	3.9345	P	3.6
6	☐	500.000	505.268	555637.78	7.7501	P	0.9
7	☐	1000.000	995.257	1088087.27	15.2652	P	1.7
8	☐			1510.09	0.0218	P	1.2

$$y = 0.0153 * x + 7.2712\text{E-}004$$

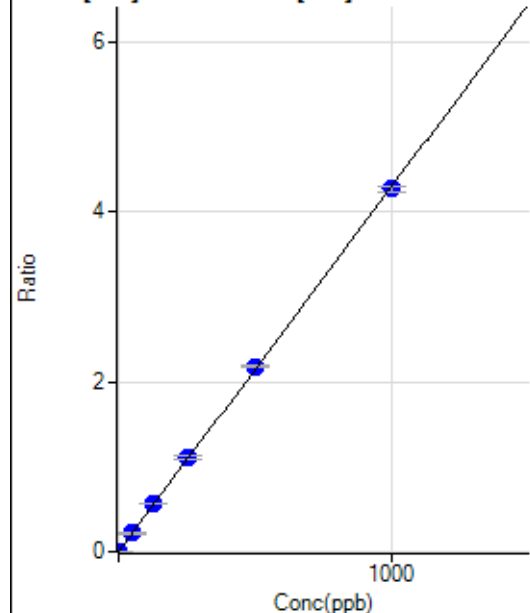
$$R = 0.9999$$

$$DL = 0.01238$$

$$BEC = 0.04741$$

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	74.44	0.0010	P	26.2
2	☐	1.000	1.124	410.01	0.0059	P	4.8
3	☐	50.000	50.020	16043.58	0.2155	P	4.3
4	☐	125.000	131.009	40495.31	0.5629	P	1.6
5	☐	250.000	256.960	75631.76	1.1030	P	3.6
6	☐	500.000	506.604	155834.04	2.1736	P	0.8
7	☐	1000.000	994.206	303977.68	4.2646	P	1.6
8	☐			1174.50	0.0169	P	8.9

$$y = 0.0043 * x + 0.0010$$

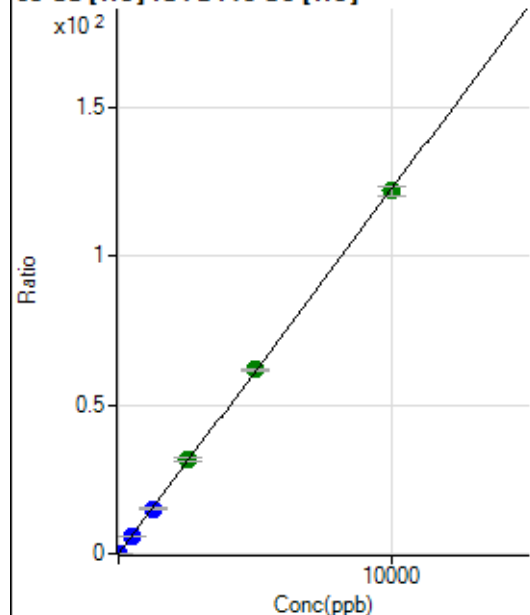
$$R = 0.9999$$

$$DL = 0.1898$$

$$BEC = 0.2414$$

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	164.45	0.0023	P	14.5
2	☐	2.000	2.000	1871.26	0.0268	P	0.8
3	☐	500.000	469.269	427255.02	5.7435	P	6.0
4	☐	1250.000	1230.670	1083396.25	15.0589	P	1.9
5	☐	2500.000	2601.156	2182019.20	31.8261	A	4.2
6	☐	5000.000	5052.796	4432073.96	61.8206	A	1.3
7	☐	10000.000	9952.266	8678316.12	121.7630	A	2.4
8	☐			4847.54	0.0698	P	2.7

$$y = 0.0122 * x + 0.0023$$

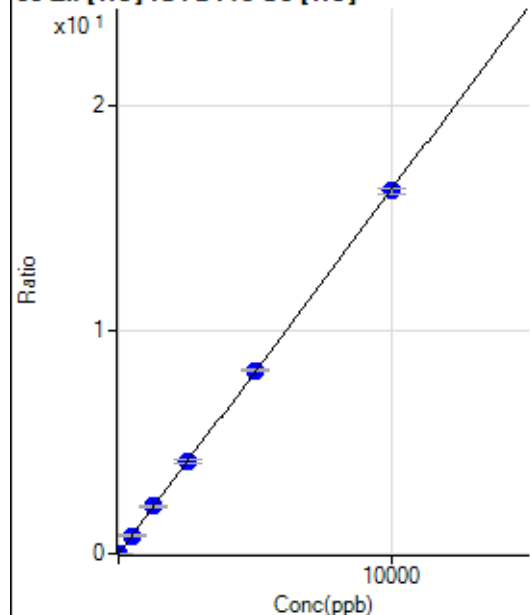
$$R = 0.9999$$

$$DL = 0.0812$$

$$BEC = 0.1871$$

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	142.22	0.0020	P	20.1
2	☐	2.000	2.010	366.67	0.0053	P	9.5
3	☐	500.000	491.132	59603.44	0.8008	P	4.5
4	☐	1250.000	1294.156	151590.18	2.1070	P	1.8
5	☐	2500.000	2549.979	284524.01	4.1497	P	3.9
6	☐	5000.000	5039.954	587899.47	8.1999	P	0.5
7	☐	10000.000	9962.452	1155170.33	16.2068	P	1.8
8	☐			2520.25	0.0363	P	1.9

$$y = 0.0016 * x + 0.0020$$

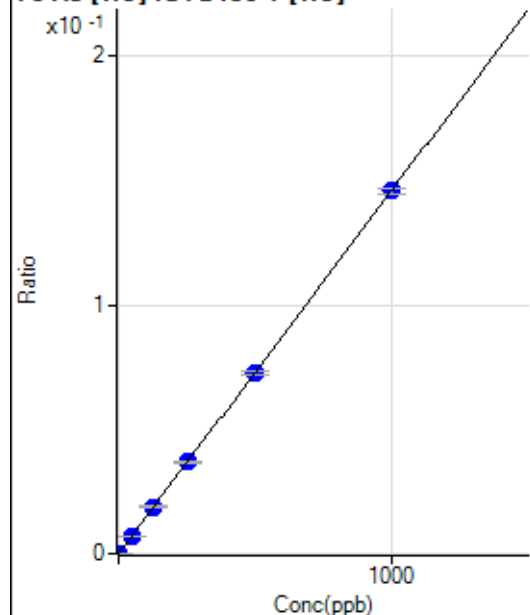
$$R = 1.0000$$

$$DL = 0.7333$$

$$BEC = 1.218$$

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	5.00	0.0000	P	52.7
2	☐	1.000	1.099	92.34	0.0002	P	6.4
3	☐	50.000	47.822	4079.67	0.0070	P	5.7
4	☐	125.000	128.091	10427.90	0.0187	P	4.0
5	☐	250.000	252.472	19580.82	0.0368	P	2.6
6	☐	500.000	498.474	40526.48	0.0727	P	1.6
7	☐	1000.000	999.867	80840.04	0.1459	P	1.3
8	☐			28.00	0.0001	P	13.7

$$y = 1.4588E-004 * x + 8.9662E-006$$

$$R = 1.0000$$

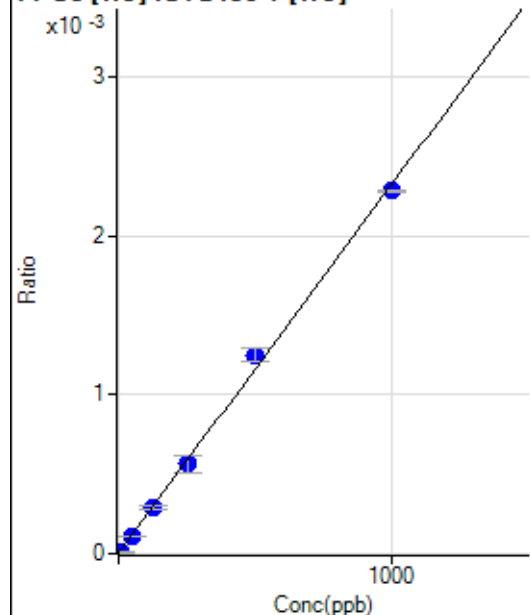
$$DL = 0.09718$$

$$BEC = 0.06146$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	0.956	3.33	0.0000	P	101.
3	☐	50.000	47.417	66.67	0.0001	P	1.7
4	☐	125.000	123.742	162.23	0.0003	P	7.1
5	☐	250.000	241.682	301.12	0.0006	P	18.7
6	☐	500.000	538.321	697.80	0.0013	P	7.5
7	☐	1000.000	983.225	1265.63	0.0023	P	0.5
8	☐			4.45	0.0000	P	86.6

$$y = 2.3183\text{E-}006 * x + 4.0160\text{E-}006$$

$$R = 0.9988$$

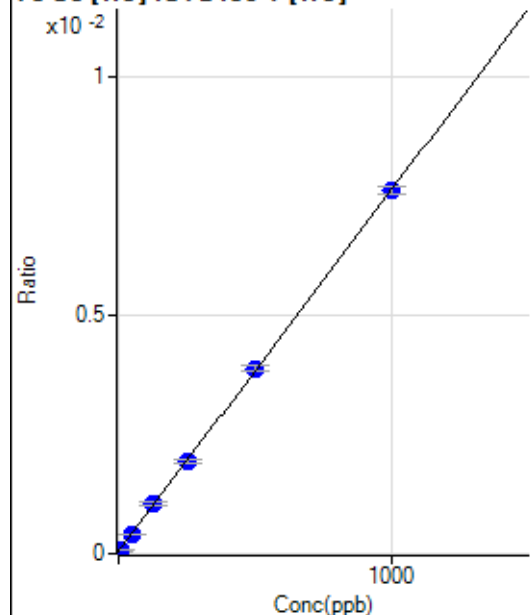
$$DL = 4.501$$

$$BEC = 1.732$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	28.33	0.0001	P	8.0
2	☐	5.000	5.070	48.67	0.0001	P	4.0
3	☐	50.000	47.051	238.36	0.0004	P	5.3
4	☐	125.000	132.772	588.41	0.0011	P	8.4
5	☐	250.000	249.050	1028.81	0.0019	P	3.5
6	☐	500.000	504.815	2156.39	0.0039	P	3.1
7	☐	1000.000	997.005	4208.72	0.0076	P	2.2
8	☐			30.33	0.0001	P	6.3

$$y = 7.5649\text{E-}006 * x + 5.0904\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.613$$

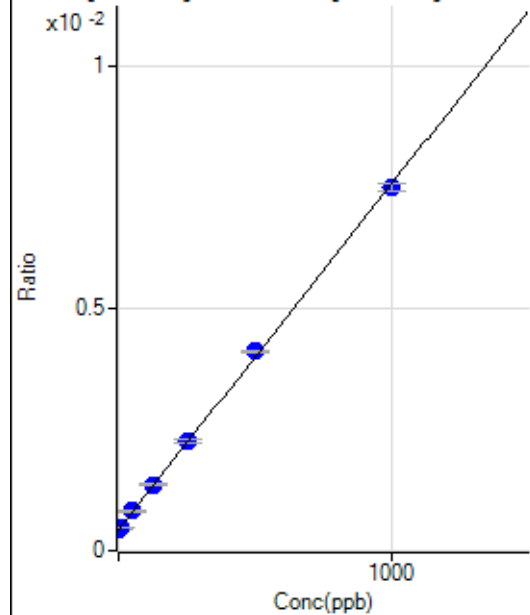
$$BEC = 6.729$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1598.41		P	5.3
2	☐			1548.34		P	1.3
3	☐			1301.41		P	8.9
4	☐			1284.72		P	7.2
5	☐			1224.65		P	11.6
6	☐			1131.21		P	7.7
7	☐			1391.51		P	5.0
8	☐			1438.22		P	6.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1587.24	0.0004	P	5.4
2	☐	5.000	5.164	1731.21	0.0005	P	0.9
3	☐	50.000	54.339	2923.56	0.0008	P	2.8
4	☐	125.000	130.473	5143.36	0.0014	P	2.7
5	☐	250.000	258.381	8427.06	0.0023	P	3.6
6	☐	500.000	516.733	15446.17	0.0041	P	1.0
7	☐	1000.000	988.637	29297.82	0.0075	P	2.2
8	☐			1541.10	0.0004	P	2.9

$$y = 7.1457E-006 * x + 4.3506E-004$$

$$R = 0.9997$$

$$DL = 9.92$$

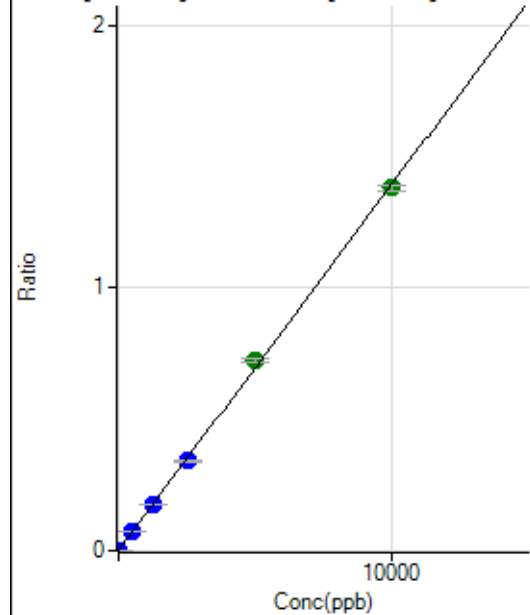
$$BEC = 60.88$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1779.02		P	5.9
2	☐			1664.56		P	5.8
3	☐			1726.79		P	4.7
4	☐			1741.24		P	5.6
5	☐			1772.35		P	6.9
6	☐			1670.12		P	5.6
7	☐			1674.56		P	4.4
8	☐			1660.12		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2705.90	0.0007	P	5.8
2	☐	1.000	1.206	3336.60	0.0009	P	3.7
3	☐	500.000	499.089	249477.98	0.0703	P	1.3
4	☐	1250.000	1254.033	659804.63	0.1754	P	0.9
5	☐	2500.000	2441.872	1259267.53	0.3409	P	2.5
6	☐	5000.000	5199.270	2712938.86	0.7250	A	1.6
7	☐	10000.000	9914.439	5398197.78	1.3817	A	1.7
8	☐			5681.88	0.0016	P	5.0

$$y = 1.3929E-004 * x + 7.4182E-004$$

$$R = 0.9997$$

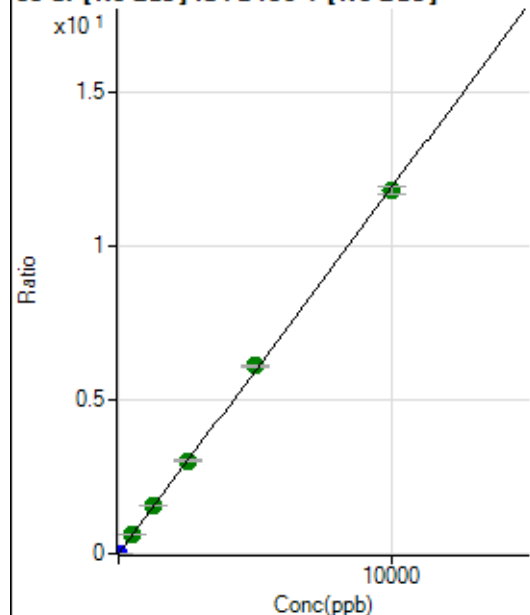
$$DL = 0.9308$$

$$BEC = 5.326$$

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	183.34	0.0001	P	22.2
2	☐	1.000	1.035	4700.91	0.0013	P	3.6
3	☐	500.000	520.058	2198642.67	0.6192	A	2.0
4	☐	1250.000	1299.803	5820481.25	1.5474	A	1.7
5	☐	2500.000	2535.196	11150493.57	3.0181	A	1.7
6	☐	5000.000	5142.220	22909584.02	6.1218	A	0.8
7	☐	10000.000	9912.863	46100569.78	11.8011	A	2.2
8	☐			26637.05	0.0074	P	1.9

$$y = 0.0012 * x + 5.0092E-005$$

$$R = 0.9998$$

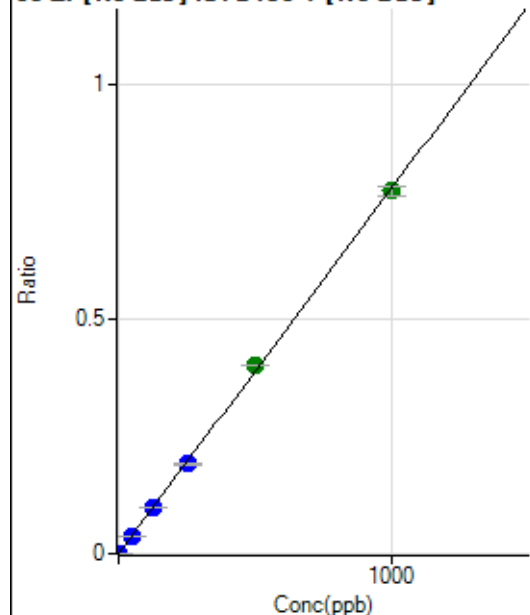
$$DL = 0.02807$$

$$BEC = 0.04208$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	205.56	0.0001	P	36.6
2	☐	1.000	0.971	2975.40	0.0008	P	4.8
3	☐	50.000	49.126	135837.83	0.0383	P	1.3
4	☐	125.000	124.804	365202.41	0.0971	P	0.7
5	☐	250.000	245.079	704180.33	0.1906	P	2.1
6	☐	500.000	516.038	1501736.44	0.4013	A	0.7
7	☐	1000.000	993.279	3016867.71	0.7724	A	2.8
8	☐			986.17	0.0003	P	16.4

$$y = 7.7752E-004 * x + 5.6243E-005$$

$$R = 0.9998$$

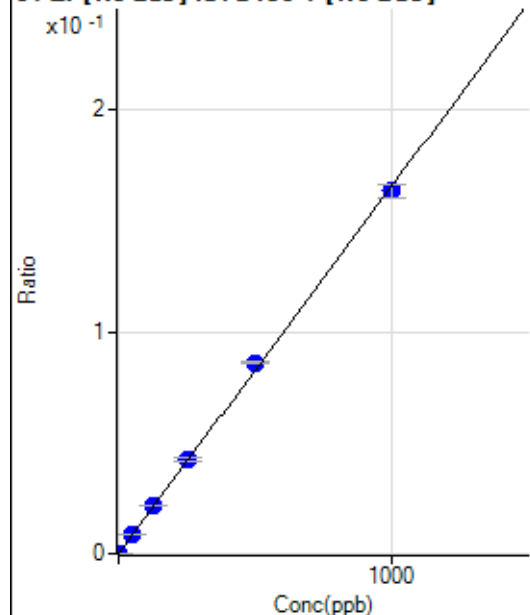
$$DL = 0.07948$$

$$BEC = 0.07234$$

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	75.00	0.0000	P	30.1
2	☐	1.000	0.966	661.14	0.0002	P	6.8
3	☐	50.000	51.936	30559.12	0.0086	P	2.8
4	☐	125.000	131.568	81868.30	0.0218	P	0.5
5	☐	250.000	254.503	155451.29	0.0421	P	3.9
6	☐	500.000	519.384	321326.78	0.0859	P	1.0
7	☐	1000.000	988.265	638054.00	0.1634	P	3.4
8	☐			291.68	0.0001	P	15.7

$$y = 1.6528\text{E-}004 * x + 2.0594\text{E-}005$$

$$R = 0.9997$$

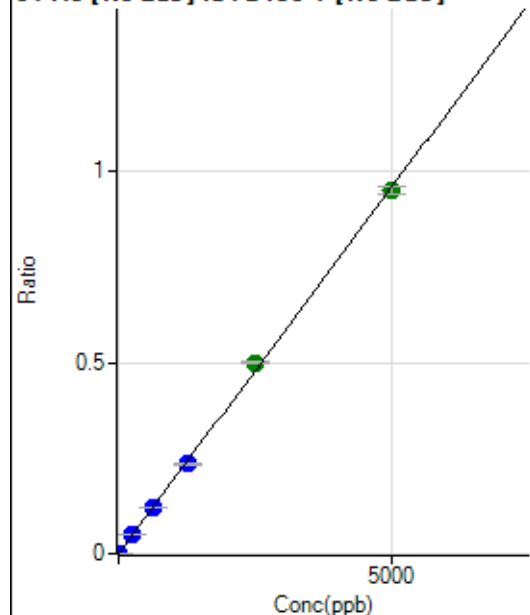
$$DL = 0.1124$$

$$BEC = 0.1246$$

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	111.12	0.0000	P	28.8
2	☐	5.000	5.027	3642.24	0.0010	P	7.0
3	☐	250.000	251.905	171539.93	0.0483	P	1.3
4	☐	625.000	629.281	453710.67	0.1206	P	1.0
5	☐	1250.000	1221.873	865200.56	0.2342	P	1.9
6	☐	2500.000	2605.794	1868916.06	0.4994	A	1.3
7	☐	5000.000	4953.504	3708913.28	0.9493	A	2.0
8	☐			1052.85	0.0003	P	7.9

$$y = 1.9164\text{E-}004 * x + 3.0362\text{E-}005$$

$$R = 0.9997$$

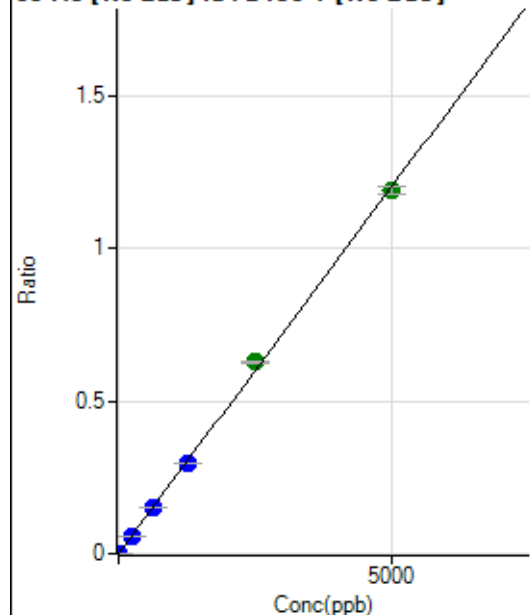
$$DL = 0.1367$$

$$BEC = 0.1584$$

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	22.22	0.0000	P	140.
2	☐	5.000	4.882	4331.35	0.0012	P	5.4
3	☐	250.000	248.204	211978.54	0.0597	P	0.4
4	☐	625.000	627.789	567894.74	0.1510	P	1.0
5	☐	1250.000	1229.553	1092487.57	0.2957	P	1.5
6	☐	2500.000	2615.181	2353673.36	0.6289	A	0.9
7	☐	5000.000	4947.263	4648634.31	1.1898	A	1.9
8	☐			1258.43	0.0004	P	11.4

$$y = 2.4049\text{E-}004 * x + 6.0301\text{E-}006$$

$$R = 0.9996$$

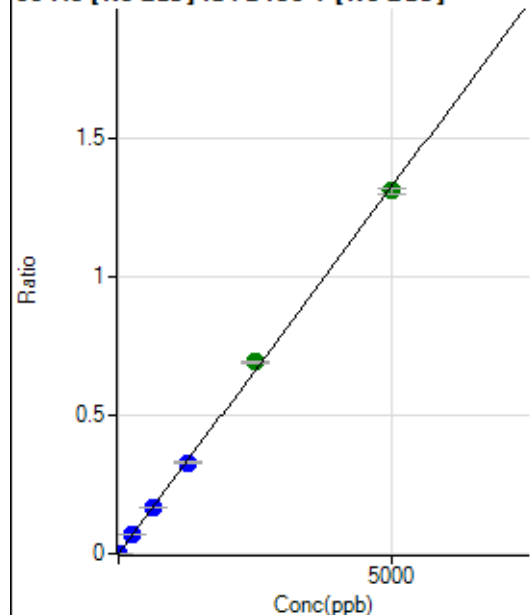
$$DL = 0.1058$$

$$BEC = 0.02507$$

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	83.34	0.0000	P	7.7
2	☐	5.000	5.018	4959.36	0.0014	P	0.9
3	☐	250.000	251.545	236695.03	0.0667	P	1.5
4	☐	625.000	634.236	632029.56	0.1680	P	1.4
5	☐	1250.000	1238.814	1212399.23	0.3282	P	2.5
6	☐	2500.000	2613.018	2590457.61	0.6922	A	1.3
7	☐	5000.000	4945.056	5118452.41	1.3100	A	1.7
8	☐			1530.68	0.0004	P	10.8

$$y = 2.6491\text{E-}004 * x + 2.2801\text{E-}005$$

$$R = 0.9996$$

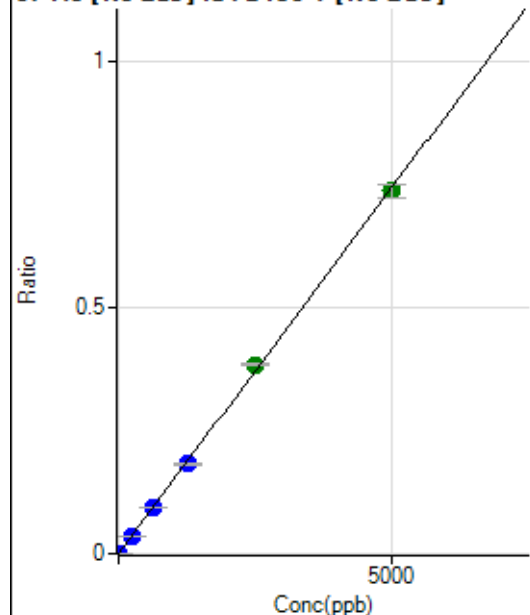
$$DL = 0.01993$$

$$BEC = 0.08607$$

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	27.78	0.0000	P	44.8
2	☐	5.000	4.730	2603.10	0.0007	P	7.6
3	☐	250.000	249.042	131194.55	0.0369	P	0.5
4	☐	625.000	631.565	352370.90	0.0937	P	2.4
5	☐	1250.000	1230.913	674470.16	0.1826	P	2.4
6	☐	2500.000	2585.640	1435169.98	0.3835	A	1.3
7	☐	5000.000	4961.179	2874210.40	0.7358	A	3.8
8	☐			763.93	0.0002	P	8.8

$$y = 1.4832\text{E-}004 * x + 7.6019\text{E-}006$$

$$R = 0.9998$$

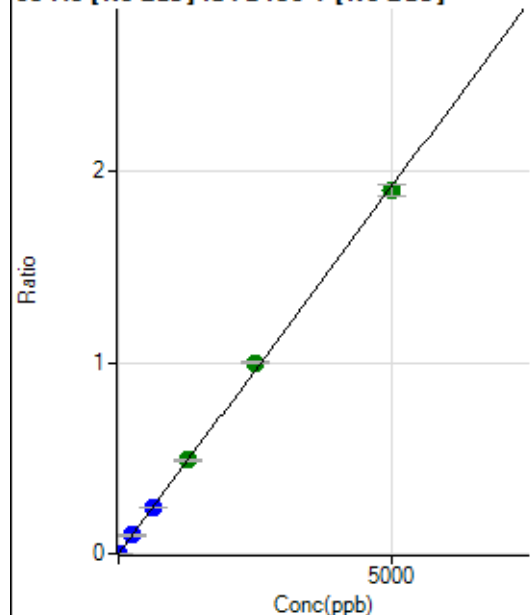
$$DL = 0.06886$$

$$BEC = 0.05125$$

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	27.78	0.0000	P	72.3
2	☐	5.000	4.805	6793.50	0.0019	P	3.8
3	☐	250.000	248.963	339463.64	0.0956	P	1.4
4	☐	625.000	623.941	901050.94	0.2396	P	1.4
5	☐	1250.000	1278.871	1814025.32	0.4910	A	2.0
6	☐	2500.000	2602.117	3738704.21	0.9991	A	1.0
7	☐	5000.000	4941.908	7412881.24	1.8974	A	3.2
8	☐			1955.75	0.0005	P	12.6

$$y = 3.8393\text{E-}004 * x + 7.7126\text{E-}006$$

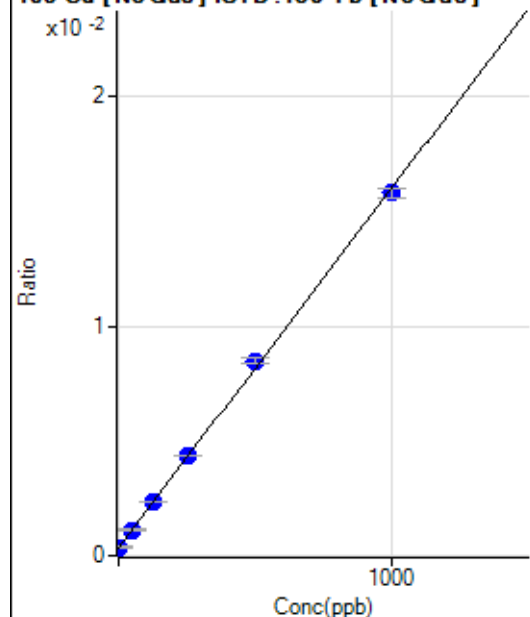
$$R = 0.9997$$

$$DL = 0.04356$$

$$BEC = 0.02009$$

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	847.27	0.0003	P	3.6
2	☐	1.000	0.308	863.94	0.0004	P	20.9
3	☐	50.000	49.802	2636.44	0.0011	P	7.4
4	☐	125.000	127.343	5873.65	0.0023	P	0.7
5	☐	250.000	258.228	10537.67	0.0044	P	0.4
6	☐	500.000	520.142	21169.52	0.0085	P	2.7
7	☐	1000.000	987.590	40652.29	0.0158	P	3.0
8	☐			938.95	0.0004	P	6.9

$$y = 1.5643\text{E-}005 * x + 3.4763\text{E-}004$$

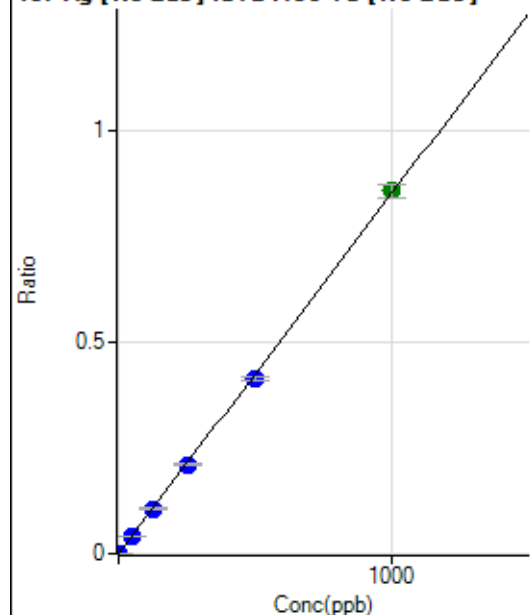
$$R = 0.9996$$

$$DL = 2.409$$

$$BEC = 22.22$$

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	19.44	0.0000	P	64.5
2	☐	1.000	0.926	1944.63	0.0008	P	10.3
3	☐	50.000	49.761	99015.99	0.0423	P	3.0
4	☐	125.000	124.513	265711.61	0.1058	P	2.0
5	☐	250.000	246.454	503139.96	0.2095	P	1.8
6	☐	500.000	485.430	1029569.92	0.4126	P	1.6
7	☐	1000.000	1008.245	2204388.59	0.8570	A	3.9
8	☐			597.25	0.0002	P	12.3

$$y = 8.4996\text{E-}004 * x + 7.9341\text{E-}006$$

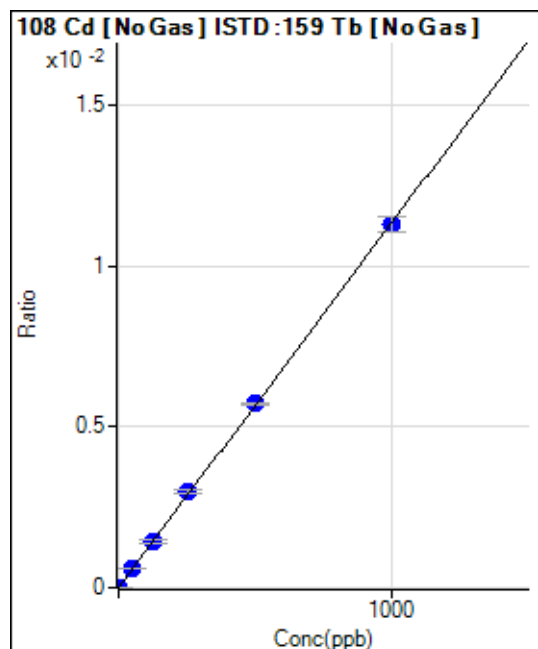
$$R = 0.9998$$

$$DL = 0.01806$$

$$BEC = 0.009335$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9.72	0.0000	P	64.9
2	☐	1.000	1.099	40.28	0.0000	P	10.7
3	☐	50.000	51.467	1376.48	0.0006	P	2.6
4	☐	125.000	125.892	3594.96	0.0014	P	5.9
5	☐	250.000	261.321	7128.30	0.0030	P	3.8
6	☐	500.000	503.595	14264.44	0.0057	P	1.3
7	☐	1000.000	995.188	29047.30	0.0113	P	4.3
8	☐			25.00	0.0000	P	34.5

$$y = 1.1343\text{E-}005 * x + 3.9734\text{E-}006$$

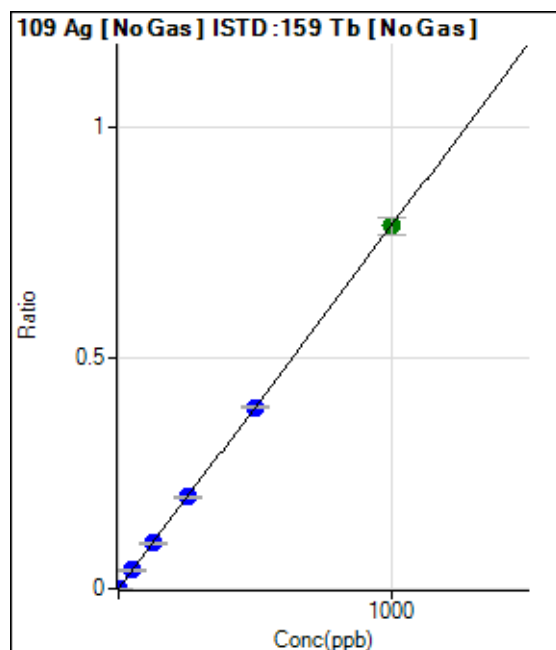
$$R = 0.9999$$

$$DL = 0.6821$$

$$BEC = 0.3503$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	71.0
2	☐	1.000	0.967	1877.96	0.0008	P	9.8
3	☐	50.000	50.576	93149.84	0.0398	P	1.4
4	☐	125.000	124.603	246098.37	0.0980	P	1.8
5	☐	250.000	252.971	477978.58	0.1990	P	2.2
6	☐	500.000	500.257	982045.76	0.3935	P	1.3
7	☐	1000.000	999.150	2021095.64	0.7860	A	5.1
8	☐			566.70	0.0002	P	15.4

$$y = 7.8668\text{E-}004 * x + 5.7418\text{E-}006$$

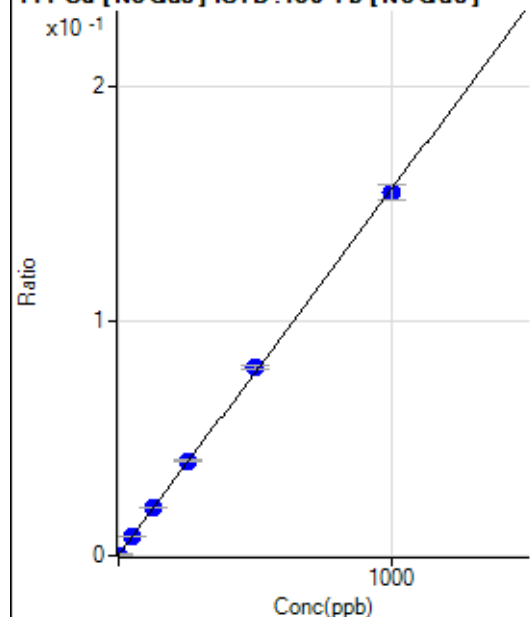
$$R = 1.0000$$

$$DL = 0.01555$$

$$BEC = 0.007299$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	594.62	0.0002	P	3.2
2	☐	1.000	0.927	951.58	0.0004	P	12.1
3	☐	50.000	51.721	19455.76	0.0083	P	5.6
4	☐	125.000	129.710	51412.73	0.0205	P	0.8
5	☐	250.000	257.339	97007.03	0.0404	P	1.6
6	☐	500.000	514.815	201003.59	0.0806	P	2.2
7	☐	1000.000	990.083	397939.10	0.1547	P	4.3
8	☐			845.32	0.0004	P	9.7

$$y = 1.5600\text{E-}004 * x + 2.4397\text{E-}004$$

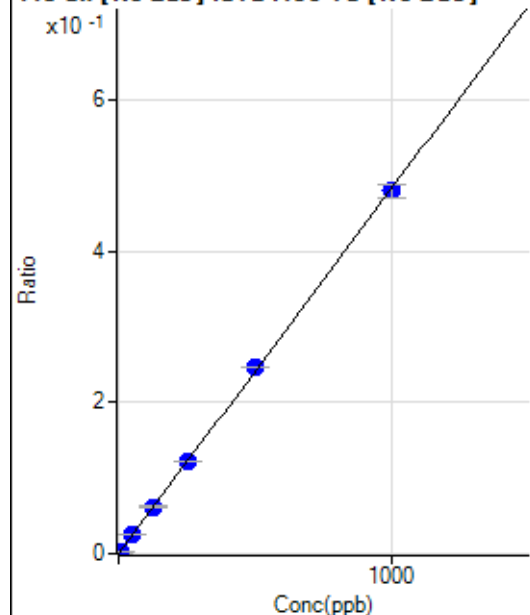
$$R = 0.9998$$

$$DL = 0.1522$$

$$BEC = 1.564$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	125.00	0.0001	P	33.5
2	☐	5.000	4.962	5979.25	0.0024	P	7.8
3	☐	50.000	51.604	58355.30	0.0249	P	1.5
4	☐	125.000	128.263	155383.15	0.0619	P	1.2
5	☐	250.000	253.168	293299.69	0.1221	P	1.2
6	☐	500.000	509.657	613351.66	0.2458	P	0.1
7	☐	1000.000	993.892	1232776.84	0.4793	P	3.9
8	☐			747.26	0.0003	P	1.7

$$y = 4.8215\text{E-}004 * x + 5.1126\text{E-}005$$

$$R = 0.9999$$

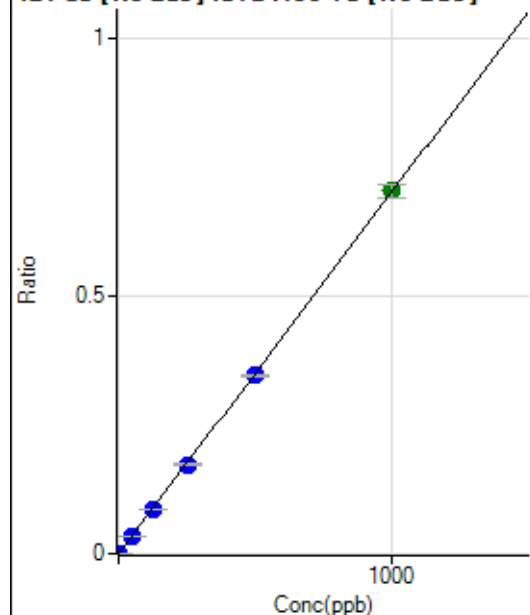
$$DL = 0.1066$$

$$BEC = 0.106$$

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	36.11	0.0000	P	12.8
2	☐	2.000	1.984	3439.43	0.0014	P	6.7
3	☐	50.000	49.851	81813.95	0.0350	P	1.5
4	☐	125.000	123.973	218188.54	0.0869	P	1.4
5	☐	250.000	246.476	414947.93	0.1728	P	2.2
6	☐	500.000	493.434	863045.07	0.3459	P	1.4
7	☐	1000.000	1004.300	1810974.06	0.7039	A	3.5
8	☐			1094.52	0.0005	P	12.1

$$y = 7.0090\text{E-}004 * x + 1.4815\text{E-}005$$

$$R = 1.0000$$

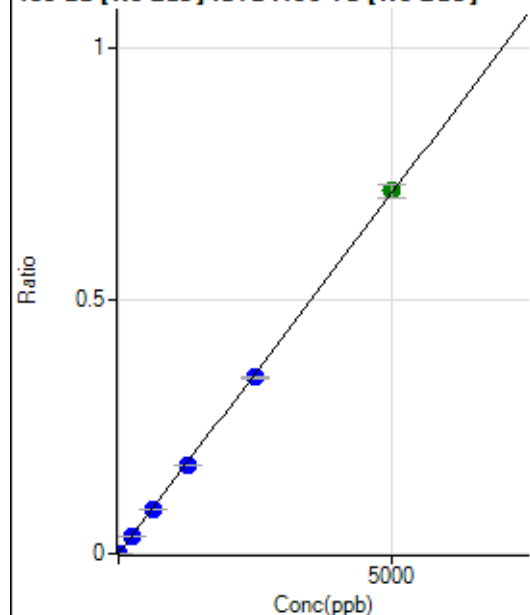
$$DL = 0.008116$$

$$BEC = 0.02114$$

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	8.33	0.0000	P	99.2
2	☐	10.000	9.993	3495.00	0.0014	P	2.4
3	☐	250.000	245.941	82011.74	0.0350	P	2.3
4	☐	625.000	612.104	218948.11	0.0872	P	2.2
5	☐	1250.000	1223.942	418827.71	0.1744	P	1.6
6	☐	2500.000	2447.266	870039.02	0.3487	P	1.6
7	☐	5000.000	5034.697	1845399.96	0.7173	A	3.4
8	☐			644.48	0.0003	P	2.1

$$y = 1.4247\text{E-}004 * x + 3.4264\text{E-}006$$

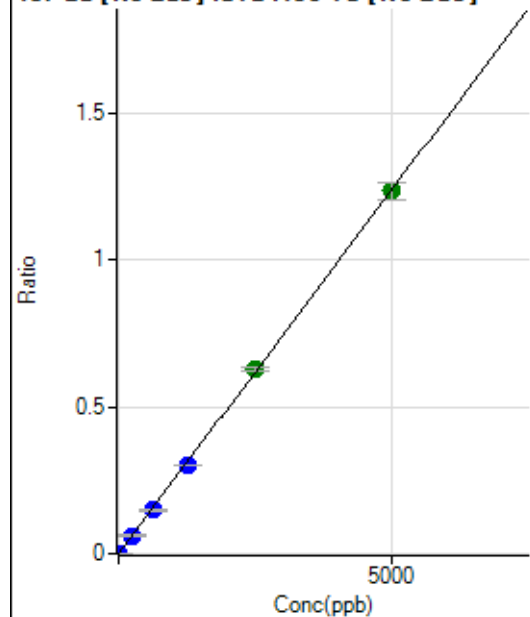
$$R = 0.9999$$

$$DL = 0.07157$$

$$BEC = 0.02405$$

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	11.11	0.0000	P	45.1
2	☐	10.000	9.716	5887.58	0.0024	P	5.8
3	☐	250.000	248.049	143475.60	0.0613	P	3.0
4	☐	625.000	600.451	372567.63	0.1484	P	2.0
5	☐	1250.000	1220.271	724356.81	0.3016	P	1.1
6	☐	2500.000	2538.660	1565581.80	0.6274	A	1.4
7	☐	5000.000	4991.269	3172580.26	1.2335	A	4.5
8	☐			1066.74	0.0004	P	19.5

$$y = 2.4714E-004 * x + 4.5813E-006$$

$$R = 0.9999$$

$$DL = 0.02508$$

$$BEC = 0.01854$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	100.
3	☐			13.33		P	50.0
4	☐			6.67		P	173.
5	☐			15.55		P	24.8
6	☐			24.45		P	15.8
7	☐			71.11		P	44.3
8	☐			13.34		P	86.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			1.11		P	173.
3	☐			2.22		P	173.
4	☐			1.11		P	173.
5	☐			2.22		P	86.6
6	☐			0.00		P	
7	☐			4.45		P	86.6
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			0.00		P	
3	☐			16.66		P	86.6
4	☐			8.33		P	100.
5	☐			27.78		P	34.6
6	☐			50.00		P	16.7
7	☐			113.89		P	18.4
8	☐			380.57		P	18.9

156 Dy [He] No available calibration points

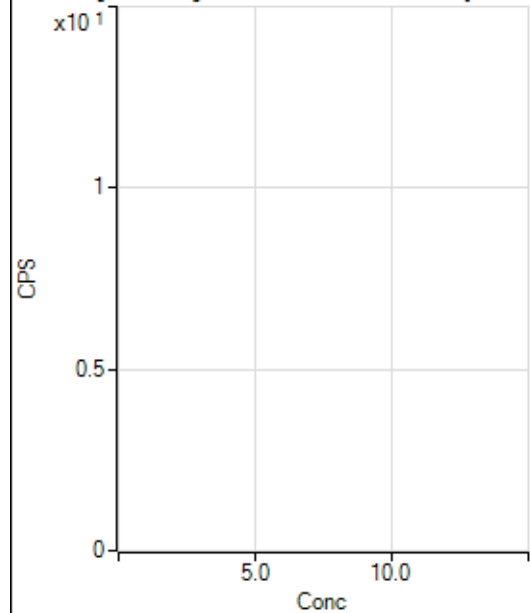
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			6.67		P	50.0
5	☐			16.67		P	40.0
6	☐			37.78		P	22.2
7	☐			43.34		P	13.3
8	☐			266.67		P	11.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	33.3
2	☐			38.89		P	53.9
3	☐			22.22		P	78.1
4	☐			52.78		P	45.6
5	☐			52.78		P	39.7
6	☐			80.56		P	15.8
7	☐			158.34		P	9.1
8	☐			422.24		P	19.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			5.56		P	91.6
3	☐			15.56		P	61.9
4	☐			12.22		P	68.7
5	☐			22.22		P	37.8
6	☐			51.11		P	32.8
7	☐			77.78		P	17.8
8	☐			311.12		P	3.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			11.11		P	43.3
3	☐			13.89		P	91.6
4	☐			22.22		P	78.1
5	☐			22.22		P	78.1
6	☐			25.00		P	33.3
7	☐			30.55		P	15.7
8	☐			83.34		P	26.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	17.3
2	☐			10.00		P	57.8
3	☐			11.11		P	45.8
4	☐			6.67		P	50.0
5	☐			12.22		P	56.8
6	☐			8.89		P	78.1
7	☐			12.22		P	41.7
8	☐			31.11		P	24.7

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			16.66		P	86.6
3	☐			5.56		P	173.
4	☐			0.00		P	
5	☐			11.11		P	43.3
6	☐			19.45		P	24.7
7	☐			16.67		P	50.0
8	☐			16.67		P	100.

172 Yb [He] No available calibration points

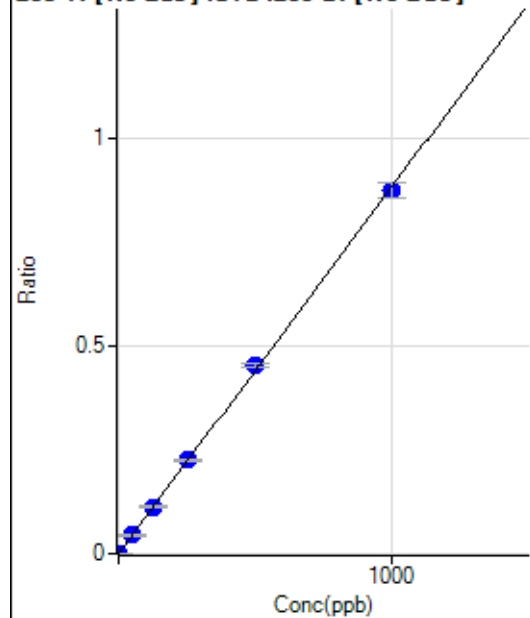
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.85		P	173.
2	☐			5.56		P	100.
3	☐			9.26		P	91.7
4	☐			9.26		P	34.6
5	☐			7.41		P	43.2
6	☐			3.71		P	86.6
7	☐			16.67		P	66.6
8	☐			11.11		P	50.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			252.79		P	31.7
2	☐			250.01		P	17.3
3	☐			283.34		P	5.1
4	☐			294.46		P	32.8
5	☐			311.13		P	14.8
6	☐			291.68		P	15.9
7	☐			355.57		P	12.9
8	☐			266.67		P	33.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.23		P	10.0
2	☐			162.97		P	18.8
3	☐			164.82		P	33.9
4	☐			172.23		P	16.1
5	☐			175.93		P	20.5
6	☐			150.00		P	19.6
7	☐			144.45		P	20.0
8	☐			179.63		P	13.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	75.00	0.0001	P	49.1
2	☐	1.000	1.000	1247.32	0.0009	P	5.8
3	☐	50.000	50.288	57419.42	0.0443	P	3.1
4	☐	125.000	128.134	153835.15	0.1129	P	1.8
5	☐	250.000	255.461	296318.51	0.2251	P	2.5
6	☐	500.000	515.898	613235.21	0.4544	P	1.9
7	☐	1000.000	990.280	1222911.94	0.8723	P	4.2
8	☐			544.47	0.0004	P	10.9

$$y = 8.8076E-004 * x + 5.6100E-005$$

$$R = 0.9998$$

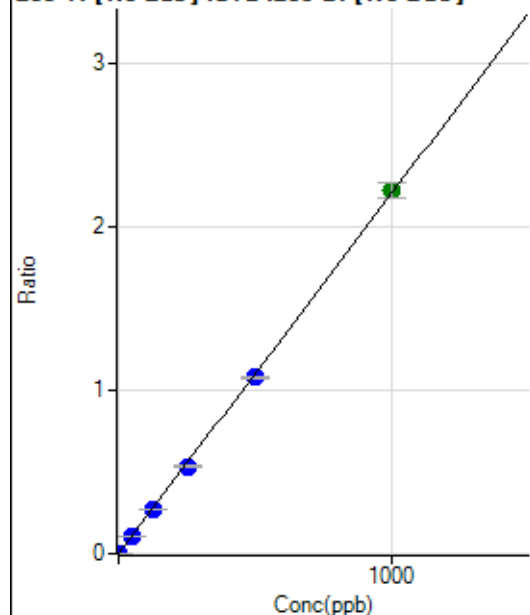
$$DL = 0.09387$$

$$BEC = 0.0637$$

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	175.01	0.0001	P	6.6
2	☐	1.000	0.962	3000.44	0.0023	P	4.4
3	☐	50.000	48.544	138854.75	0.1072	P	2.7
4	☐	125.000	122.528	368490.71	0.2705	P	0.9
5	☐	250.000	242.279	704020.94	0.5347	P	1.1
6	☐	500.000	489.425	1457441.19	1.0800	P	1.3
7	☐	1000.000	1007.599	3117049.36	2.2233	A	4.3
8	☐			1316.78	0.0010	P	7.4

$$y = 0.0022 * x + 1.3067E-004$$

$$R = 0.9999$$

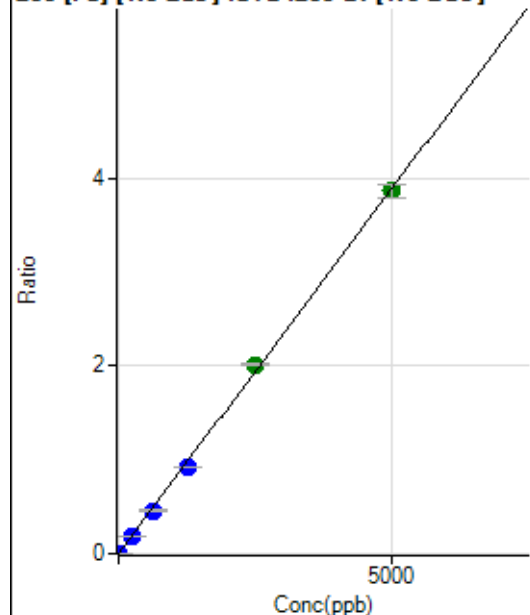
$$DL = 0.01164$$

$$BEC = 0.05923$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.37	0.0002	P	23.6
2	☐	1.000	0.912	1163.04	0.0009	P	11.3
3	☐	250.000	235.210	236858.66	0.1829	P	2.1
4	☐	625.000	592.717	627601.79	0.4607	P	1.0
5	☐	1250.000	1187.692	1215190.64	0.9229	P	1.7
6	☐	2500.000	2589.652	2715414.38	2.0122	A	1.4
7	☐	5000.000	4975.526	5419928.65	3.8658	A	3.9
8	☐			32882.62	0.0261	P	2.4

$$y = 7.7694E-004 * x + 1.6452E-004$$

$$R = 0.9997$$

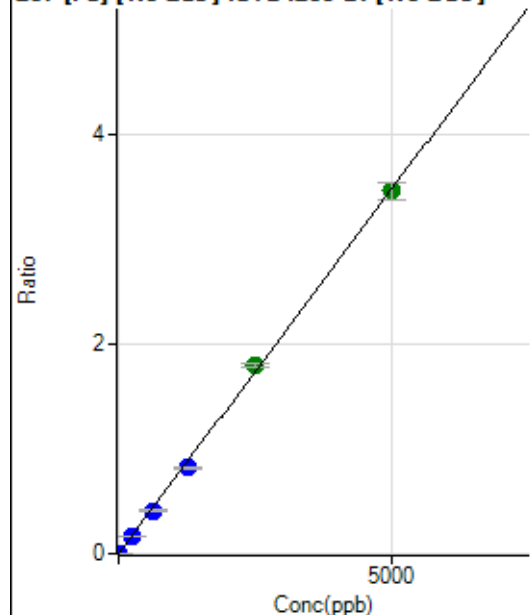
$$DL = 0.1501$$

$$BEC = 0.2118$$

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	240.75	0.0002	P	17.2
2	☐	1.000	0.866	1040.80	0.0008	P	4.8
3	☐	250.000	233.035	210236.53	0.1623	P	2.7
4	☐	625.000	593.167	562631.05	0.4130	P	1.5
5	☐	1250.000	1179.045	1080569.52	0.8207	P	1.5
6	☐	2500.000	2586.025	2428659.23	1.7998	A	2.5
7	☐	5000.000	4979.554	4857024.94	3.4655	A	5.1
8	☐			29610.00	0.0235	P	2.5

$$y = 6.9590E-004 * x + 1.7915E-004$$

$$R = 0.9997$$

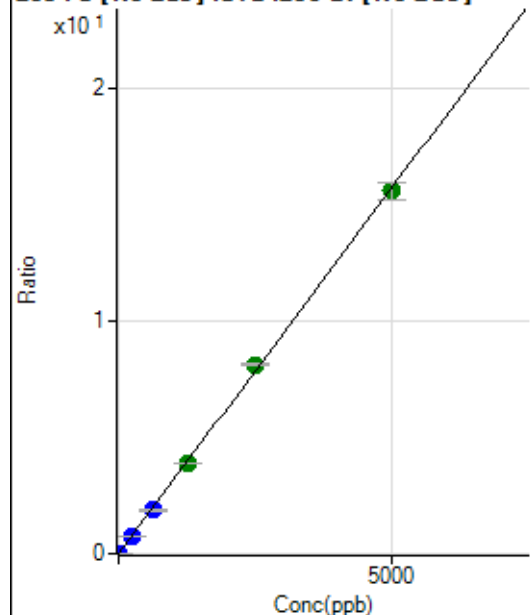
$$DL = 0.1326$$

$$BEC = 0.2574$$

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	1025.96	0.0008	P	11.4
2	☐	1.000	0.894	4756.00	0.0036	P	3.0
3	☐	250.000	234.318	953382.48	0.7363	P	2.7
4	☐	625.000	591.985	2532634.64	1.8589	P	1.5
5	☐	1250.000	1236.513	5111394.30	3.8821	A	1.9
6	☐	2500.000	2588.572	10966049.61	8.1260	A	1.4
7	☐	5000.000	4963.997	21841594.35	15.5822	A	4.5
8	☐			132661.21	0.1053	P	1.1

$$y = 0.0031 * x + 7.6416E-004$$

$$R = 0.9997$$

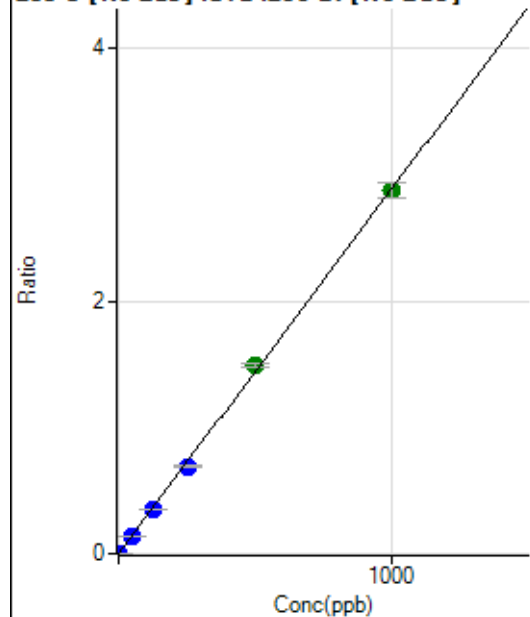
$$DL = 0.083$$

$$BEC = 0.2434$$

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	16.67	0.0000	P	51.8
2	☐	1.000	0.938	3622.85	0.0027	P	1.1
3	☐	50.000	47.790	178586.18	0.1379	P	2.0
4	☐	125.000	120.179	472446.47	0.3468	P	1.0
5	☐	250.000	239.971	911719.45	0.6924	P	0.7
6	☐	500.000	515.576	2007533.32	1.4877	A	1.7
7	☐	1000.000	995.432	4025907.64	2.8722	A	4.2
8	☐			494.47	0.0004	P	18.1

$$y = 0.0029 * x + 1.2501E-005$$

$$R = 0.9998$$

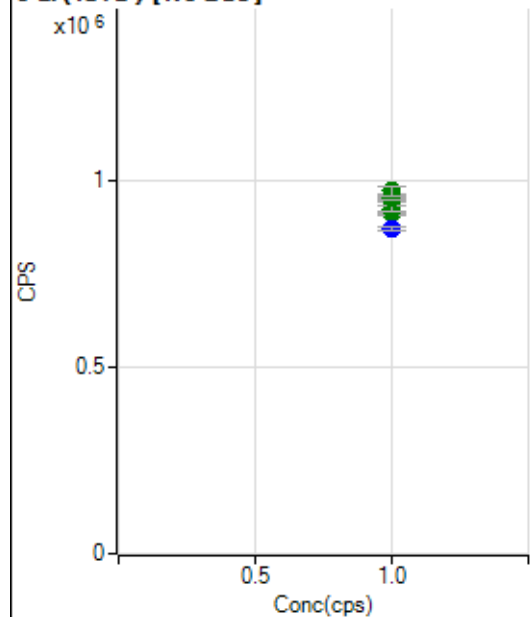
$$DL = 0.006732$$

$$BEC = 0.004333$$

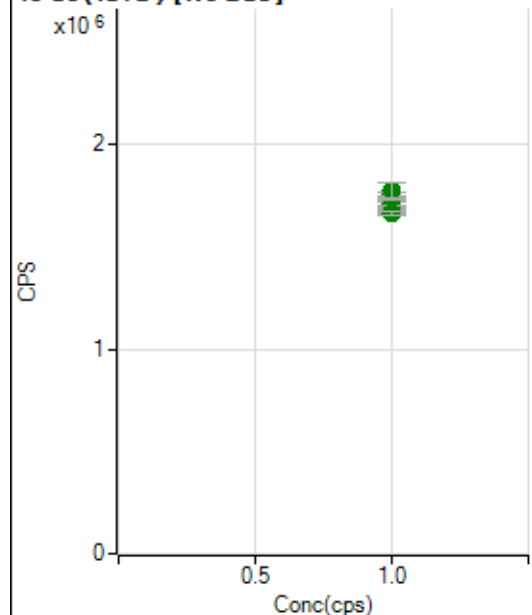
Weight: <None>

Min Conc: 0

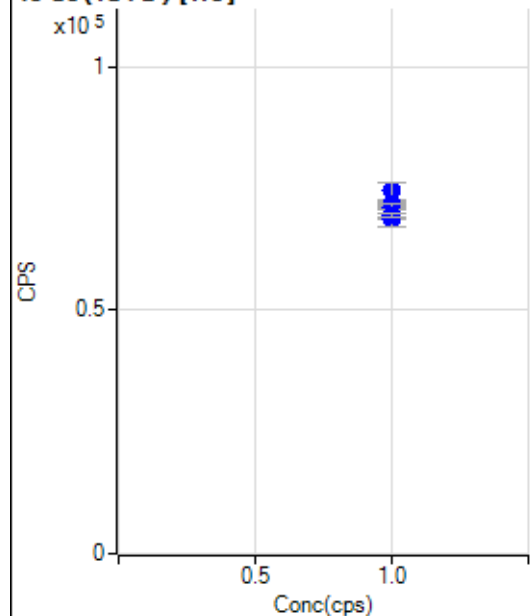
6 Li (ISTD) [No Gas]



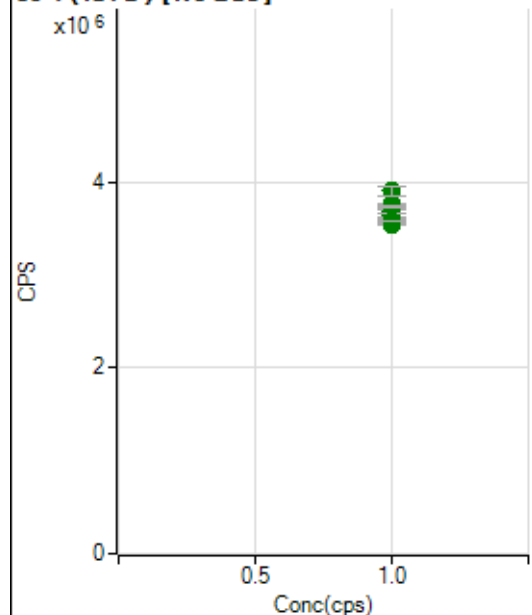
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		943241.96		A	2.2
2	☐	1.000		953493.68		A	1.9
3	☐	1.000		911065.34		A	0.4
4	☐	1.000		960377.12		A	0.7
5	☐	1.000		926275.72		A	1.6
6	☐	1.000		956718.33		A	1.3
7	☐	1.000		973784.11		A	2.6
8	☐	1.000		871555.04		P	1.6

45 Sc (ISTD) [No Gas]

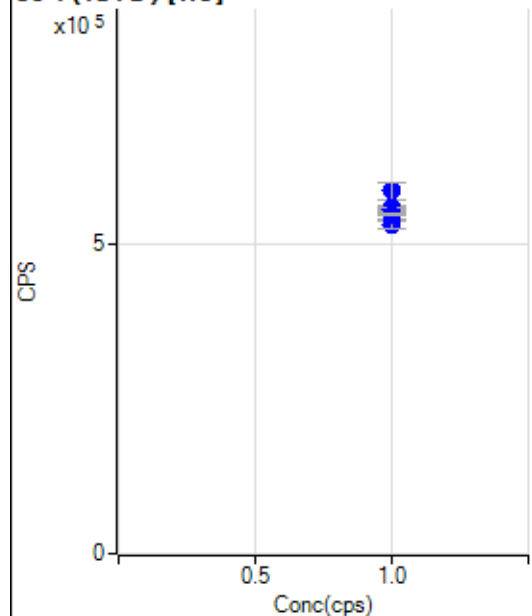
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1713319.94		A	2.5
2	☐	1.000		1751592.74		A	1.2
3	☐	1.000		1671341.42		A	1.2
4	☐	1.000		1758352.63		A	0.9
5	☐	1.000		1712965.67		A	1.2
6	☐	1.000		1739977.82		A	1.2
7	☐	1.000		1771874.91		A	4.2
8	☐	1.000		1661955.29		A	1.2

45 Sc (ISTD) [He]

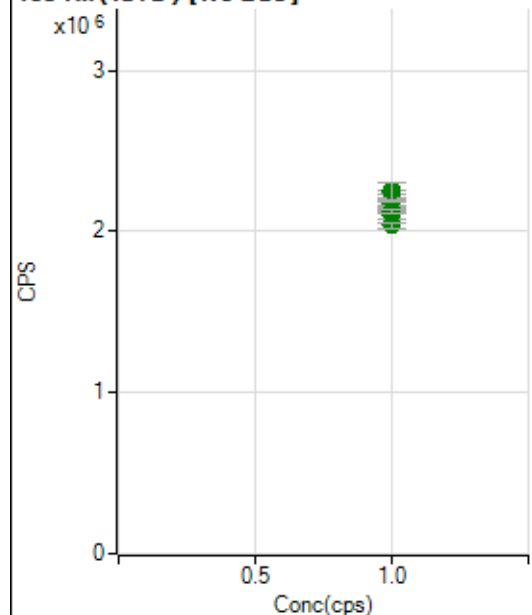
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		71778.97		P	1.7
2	☐	1.000		69947.58		P	3.7
3	☐	1.000		74538.13		P	5.1
4	☐	1.000		71954.56		P	1.2
5	☐	1.000		68635.05		P	4.0
6	☐	1.000		71697.76		P	0.8
7	☐	1.000		71289.02		P	1.6
8	☐	1.000		69425.50		P	1.2

89 Y (ISTD) [No Gas]

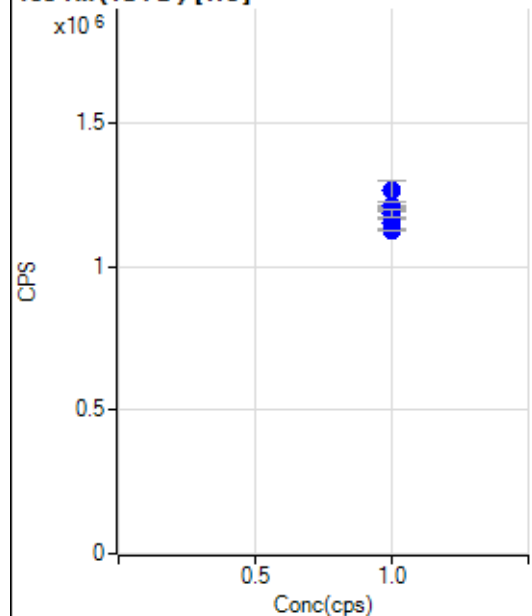
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3650853.83		A	2.8
2	☐	1.000		3668457.58		A	1.9
3	☐	1.000		3550954.64		A	0.9
4	☐	1.000		3761191.33		A	0.9
5	☐	1.000		3694975.64		A	1.3
6	☐	1.000		3742375.99		A	0.5
7	☐	1.000		3907832.93		A	2.5
8	☐	1.000		3581699.53		A	0.3

89 Y (ISTD) [He]

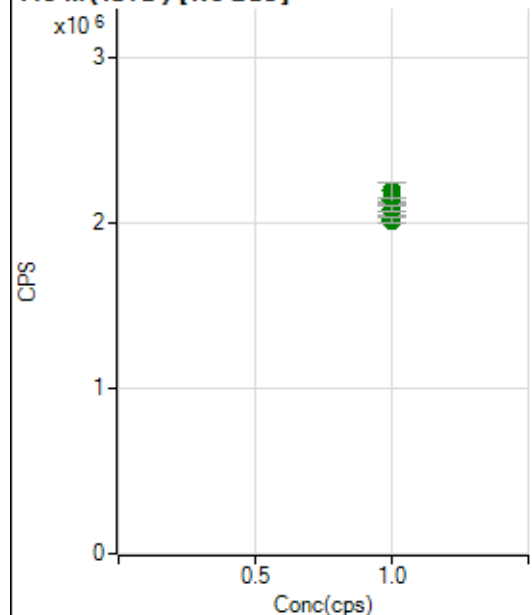
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		556367.20		P	1.2
2	☐	1.000		545461.36		P	3.0
3	☐	1.000		585163.26		P	5.1
4	☐	1.000		558021.41		P	1.5
5	☐	1.000		531830.82		P	3.4
6	☐	1.000		557301.42		P	1.0
7	☐	1.000		554262.72		P	1.6
8	☐	1.000		547204.15		P	0.6

103 Rh (ISTD) [No Gas]

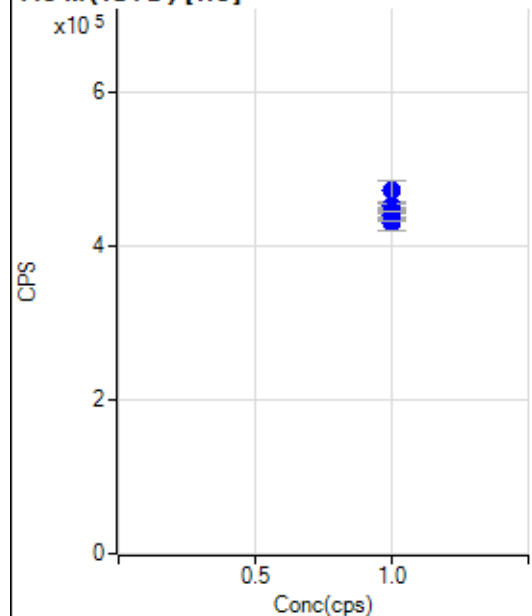
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2171434.34		A	1.7
2	☐	1.000		2171156.56		A	1.3
3	☐	1.000		2100856.08		A	2.2
4	☐	1.000		2243862.01		A	1.2
5	☐	1.000		2123243.84		A	1.0
6	☐	1.000		2197215.89		A	1.4
7	☐	1.000		2252607.75		A	5.1
8	☐	1.000		2039435.16		A	1.6

103 Rh (ISTD) [He]

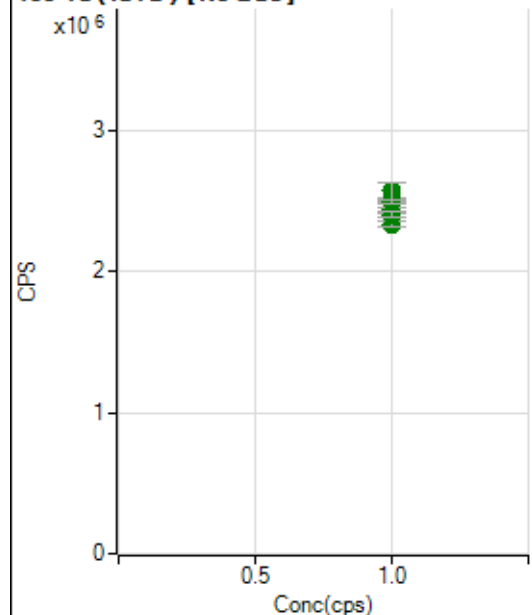
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1207654.42		P	0.7
2	☐	1.000		1184087.74		P	3.1
3	☐	1.000		1263515.57		P	6.0
4	☐	1.000		1212270.43		P	2.5
5	☐	1.000		1152147.72		P	3.2
6	☐	1.000		1193870.16		P	0.4
7	☐	1.000		1187426.87		P	2.4
8	☐	1.000		1124985.17		P	0.2

115 In (ISTD) [No Gas]

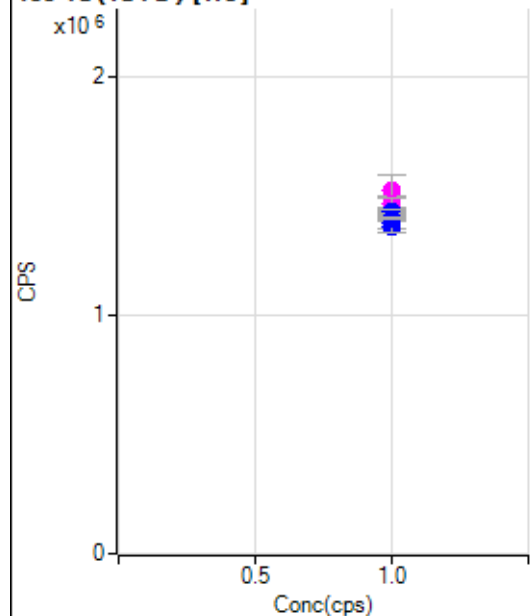
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2126844.69		A	2.1
2	☐	1.000		2109111.11		A	1.1
3	☐	1.000		2018627.54		A	1.7
4	☐	1.000		2131533.96		A	1.2
5	☐	1.000		2035211.83		A	0.4
6	☐	1.000		2082113.72		A	1.6
7	☐	1.000		2190694.25		A	4.3
8	☐	1.000		2010151.49		A	1.9

115 In (ISTD) [He]

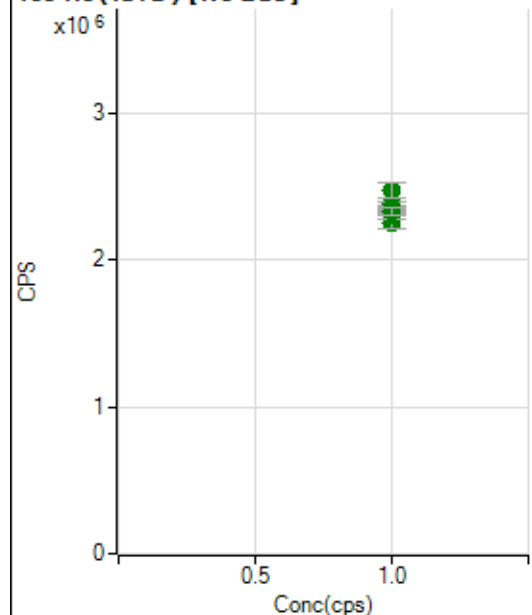
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		448787.30		P	0.7
2	☐	1.000		440024.97		P	2.8
3	☐	1.000		471240.64		P	5.6
4	☐	1.000		451860.78		P	1.5
5	☐	1.000		428441.37		P	3.6
6	☐	1.000		443632.74		P	0.7
7	☐	1.000		440185.72		P	2.1
8	☐	1.000		432500.37		P	0.3

159 Tb (ISTD) [No Gas]

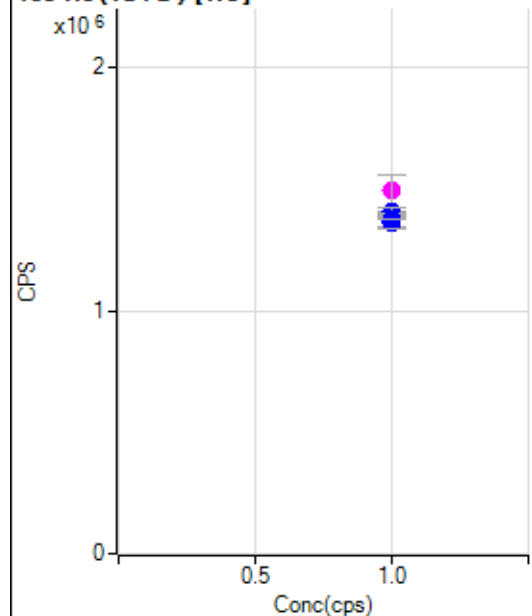
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2436536.84		A	1.6
2	☐	1.000		2448420.95		A	1.2
3	☐	1.000		2341010.28		A	2.1
4	☐	1.000		2510500.26		A	0.8
5	☐	1.000		2401975.61		A	0.8
6	☐	1.000		2495522.88		A	0.9
7	☐	1.000		2575378.44		A	4.6
8	☐	1.000		2405009.06		A	1.9

159 Tb (ISTD) [He]

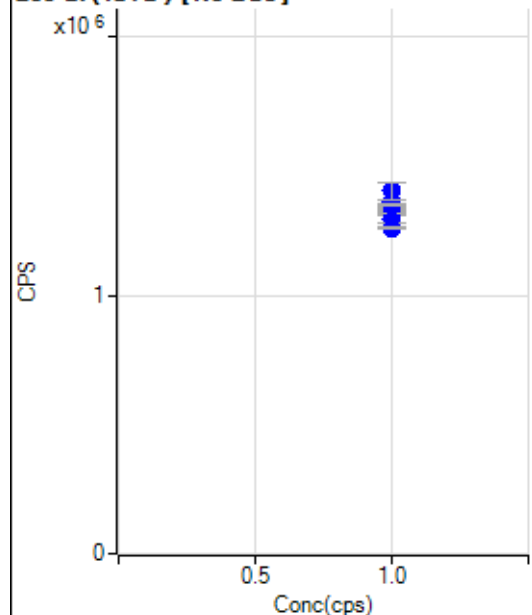
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1412017.29		P	0.7
2	☐	1.000		1386196.38		P	3.3
3	☐	1.000		1519887.03		M	9.1
4	☐	1.000		1465080.17		M	4.2
5	☐	1.000		1370471.13		P	3.3
6	☐	1.000		1465620.74		M	3.7
7	☐	1.000		1435017.97		P	1.2
8	☐	1.000		1402693.33		P	0.5

165 Ho (ISTD) [No Gas]

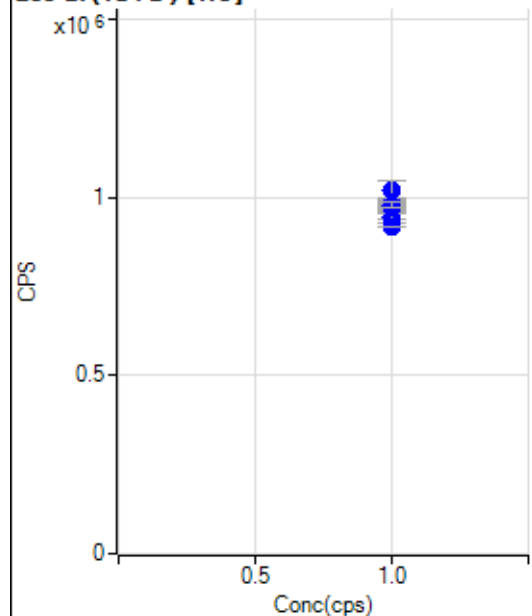
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2321229.33		A	0.6
2	☐	1.000		2322531.13		A	2.1
3	☐	1.000		2245429.28		A	2.7
4	☐	1.000		2375813.68		A	1.1
5	☐	1.000		2303659.56		A	2.0
6	☐	1.000		2348786.79		A	1.0
7	☐	1.000		2468024.40		A	4.1
8	☐	1.000		2323736.58		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1385729.65		P	1.0
2	☐	1.000		1365043.33		P	3.2
3	☐	1.000		1491682.08		M	9.3
4	☐	1.000		1408198.87		P	1.7
5	☐	1.000		1356765.28		P	3.4
6	☐	1.000		1403546.70		P	0.4
7	☐	1.000		1411162.22		P	1.5
8	☐	1.000		1376520.08		P	0.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1340356.92		P	2.3
2	☐	1.000		1331753.26		P	0.5
3	☐	1.000		1295253.24		P	1.9
4	☐	1.000		1362333.10		P	0.7
5	☐	1.000		1316702.36		P	0.2
6	☐	1.000		1349575.73		P	0.8
7	☐	1.000		1403337.67		P	4.4
8	☐	1.000		1259401.48		P	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		970108.41		P	1.7
2	☐	1.000		951973.15		P	2.7
3	☐	1.000		1017299.00		P	5.2
4	☐	1.000		988207.79		P	1.6
5	☐	1.000		941371.50		P	3.1
6	☐	1.000		971039.29		P	0.2
7	☐	1.000		976876.82		P	1.5
8	☐	1.000		917378.48		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8050421MS.b
Acq. Date-Time 2021-05-04 12:54:06
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3986	39863.71			2.829	5.000
24		25414	254142.92			2.283	5.000
25		3521	35208.75			2.442	5.000
26		4117	41165.19			2.596	5.000
59		16802	168022.29			2.961	5.000
113		2105	21049.59			3.524	5.000
115		12641	126413.55			2.981	5.000
206		3685	36848.17			2.693	5.000
207		3209	32086.94			2.844	5.000
208		7744	77439.32			3.065	5.000
220		0	4.00			29.315	

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

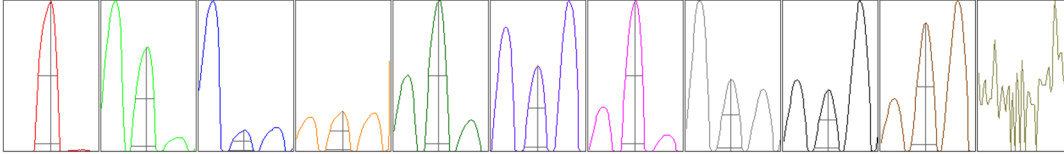
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3906	4159	4030	3877	3960
24	25046	26203	25778	24748	25297
25	3478	3648	3563	3427	3488
26	4041	4266	4187	4009	4080
59	16607	17390	17227	16179	16608
113	2072	2214	2148	2037	2054
115	12459	13156	12873	12190	12529
206	3644	3819	3734	3554	3674
207	3155	3344	3244	3105	3195
208	7599	8084	7857	7470	7710

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7054.22	9.00	8.90 - 9.10	
24	45232.53	23.95	23.90 - 24.10	
25	6117.41	24.95	24.90 - 25.10	
26	7150.67	26.00	25.90 - 26.10	
59	31120.00	58.95	58.90 - 59.10	
113	4133.03	113.00	112.90 - 113.10	
115	24568.20	115.00	114.90 - 115.10	
206	7002.69	205.95	205.90 - 206.10	
207	6032.06	206.95	206.90 - 207.10	
208	14815.76	207.95	207.90 - 208.10	
220	0.00	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.784	0.900	
24	0.60	0.784	0.900	
25	0.60	0.773	0.900	
26	0.61	0.785	0.900	
59	0.57	0.777	0.900	
113	0.53	0.729	0.900	
115	0.53	0.732	0.900	
206	0.54	0.791	0.900	
207	0.54	0.791	0.900	
208	0.54	0.813	0.900	
220	0.30	0.300		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.48 L/min Dilution Gas 0.44 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	15.4 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2193 V	Pulse HV	1415 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4459	44586.34			2.484	
89		7633	76333.19			2.402	
205		5502	55017.13			3.013	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4442	4323	4386	4575	4567
89	7606	7429	7490	7800	7842
205	5558	5296	5360	5616	5678

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.48 L/min	Dilution Gas	0.44 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.9 mV	Analog HV	2193 V	Pulse HV	1415 V