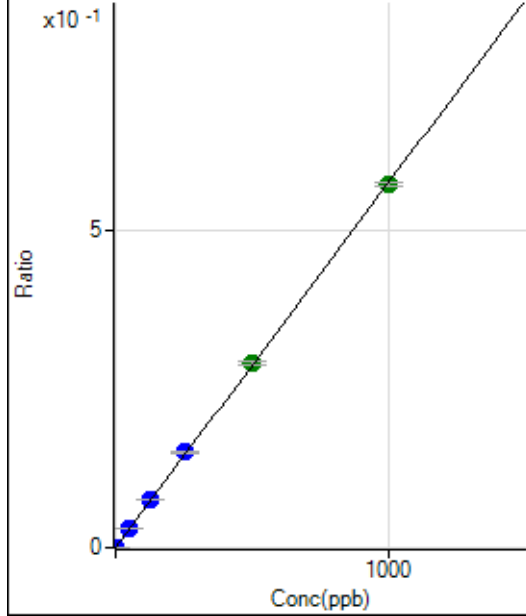


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7080223MS.b\
 Analysis File: P7080223MS.batch.bin
 DA Date-Time: 2023-08-03 16:14:43
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-08-02 09:57:30
2	006CALS.d	S02	2023-08-02 10:04:03
3	007CALS.d	S03	2023-08-02 10:07:19
4	008CALS.d	S04	2023-08-02 10:10:21
5	009CALS.d	S05	2023-08-02 10:13:11
6	010CALS.d	S06	2023-08-02 10:15:58
7	011CALS.d	S07	2023-08-02 10:18:45
8	012CALS.d	S08	2023-08-02 10:21:34

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.56	0.0000	P	10.9
2	☐	1.000	1.065	3102.56	0.0006	P	5.5
3	☐	50.000	52.735	157929.68	0.0304	P	1.7
4	☐	125.000	130.646	386037.72	0.0753	P	1.8
5	☐	250.000	260.877	756144.87	0.1503	P	2.3
6	☐	500.000	504.806	1458721.77	0.2907	A	1.6
7	☐	1000.000	994.035	2764543.24	0.5725	A	1.0
8	☐			730.03	0.0002	P	23.9

$$y = 5.7593\text{E-}004 * x + 1.5283\text{E-}005$$

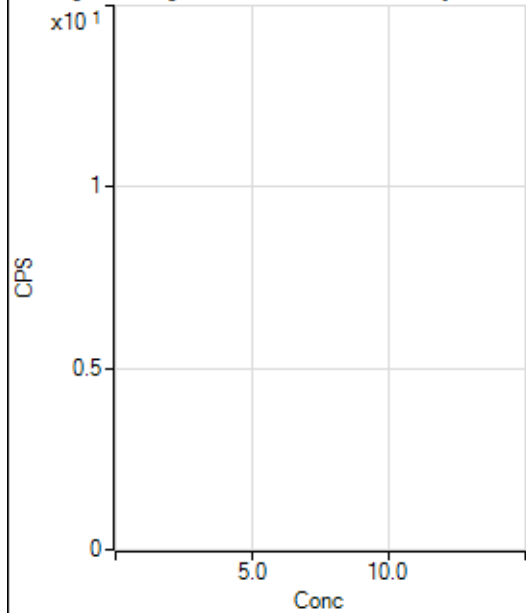
$$R = 0.9999$$

$$DL = 0.00868$$

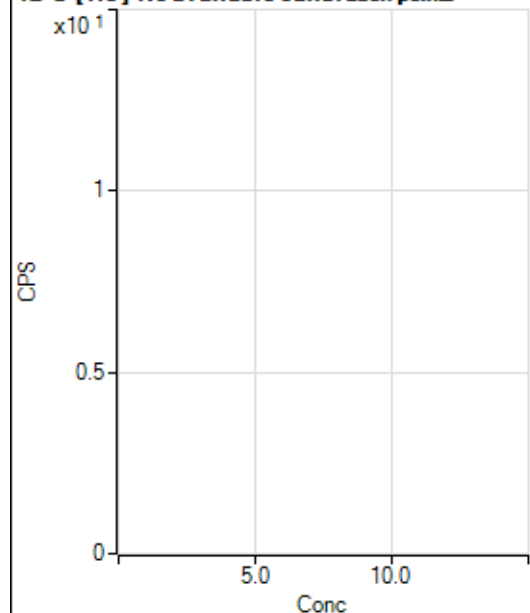
$$BEC = 0.02654$$

Weight: <None>

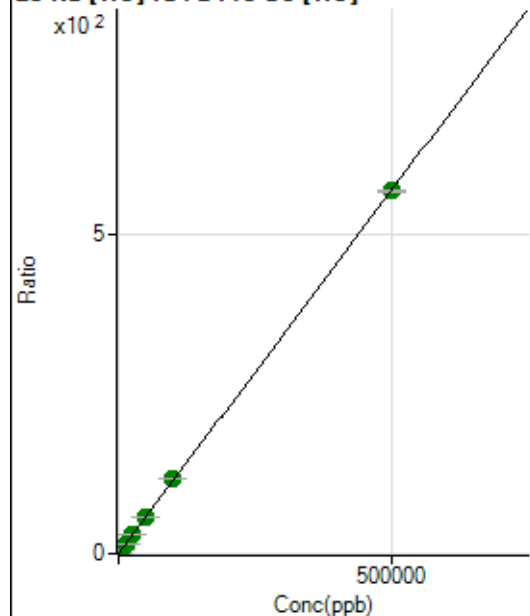
Min Conc: 0

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	30834.16	0.0355	P	1.1
2	☐	500.000	521.304	546305.30	0.6280	P	0.5
3	☐	5000.000	5202.659	5188004.50	5.9486	A	0.9
4	☐	12500.000	13028.552	12771843.14	14.8433	A	0.6
5	☐	25000.000	26178.087	24898912.68	29.7886	A	1.3
6	☐	50000.000	51114.723	49157668.16	58.1307	A	0.6
7	☐	100000.00	102696.96	97473596.32	116.7572	A	0.9
8	☐	500000.00	499274.96	474629397.37	567.4938	A	0.6

$$y = 0.0011 * x + 0.0355$$

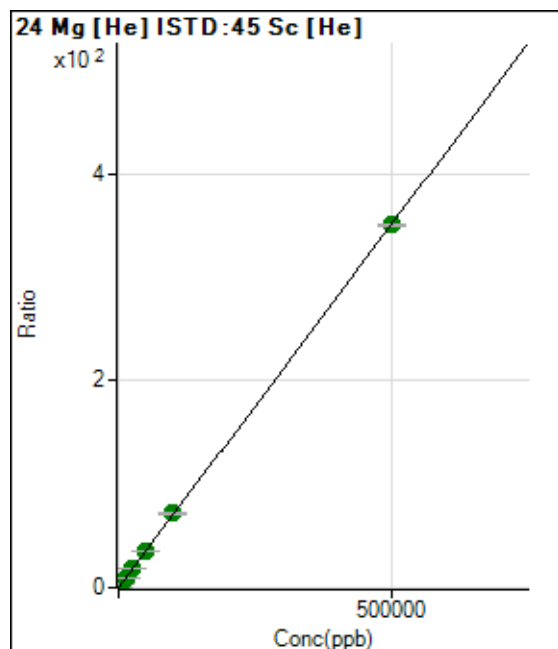
$$R = 1.0000$$

$$DL = 1.073$$

$$BEC = 31.23$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	561.13	0.0006	P	5.4
2	☐	500.000	517.771	316651.40	0.3640	P	0.6
3	☐	5000.000	5242.051	3208919.01	3.6794	A	0.4
4	☐	12500.000	13059.961	7886606.55	9.1657	A	0.8
5	☐	25000.000	26184.367	15359937.55	18.3760	A	1.1
6	☐	50000.000	51189.066	30378411.22	35.9235	A	0.3
7	☐	100000.00	101922.55	59713998.55	71.5267	A	0.7
8	☐	500000.00	499420.92	293123877.85	350.4786	A	0.8

$$y = 7.0177\text{E-}004 * x + 6.4582\text{E-}004$$

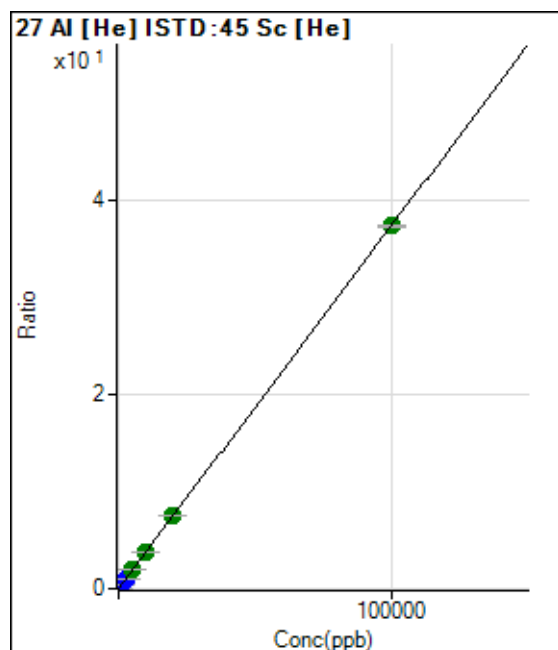
$$R = 1.0000$$

$$DL = 0.1477$$

$$BEC = 0.9203$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	286.67	0.0003	P	4.7
2	☐	20.000	21.738	7370.72	0.0085	P	3.6
3	☐	1000.000	1107.155	362018.10	0.4151	P	0.8
4	☐	2500.000	2648.959	854131.72	0.9927	P	0.5
5	☐	5000.000	5233.002	1638798.38	1.9607	A	1.7
6	☐	10000.000	10241.825	3244760.82	3.8370	A	0.0
7	☐	20000.000	20157.734	6304516.57	7.5517	A	0.1
8	☐	100000.00	99927.825	31308865.92	37.4345	A	0.3

$$y = 3.7461\text{E-}004 * x + 3.2996\text{E-}004$$

$$R = 1.0000$$

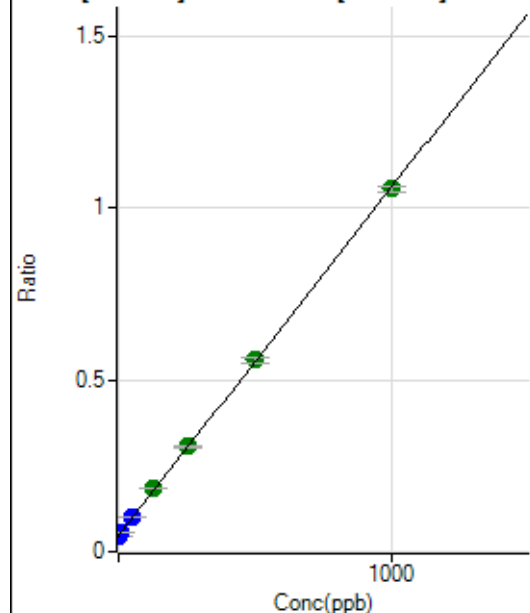
$$DL = 0.1239$$

$$BEC = 0.8808$$

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	448742.70	0.0470	P	1.4
2	☐	10.000	9.604	533138.60	0.0568	P	1.1
3	☐	50.000	53.526	995069.67	0.1012	P	2.6
4	☐	125.000	135.027	1784717.67	0.1837	A	2.2
5	☐	250.000	254.885	2868544.19	0.3051	A	3.0
6	☐	500.000	504.037	5259278.43	0.5573	A	3.2
7	☐	1000.000	995.334	9870652.70	1.0546	A	1.5
8	☐			1397647.42	0.1506	A	8.9

$$y = 0.0010 * x + 0.0470$$

$$R = 0.9999$$

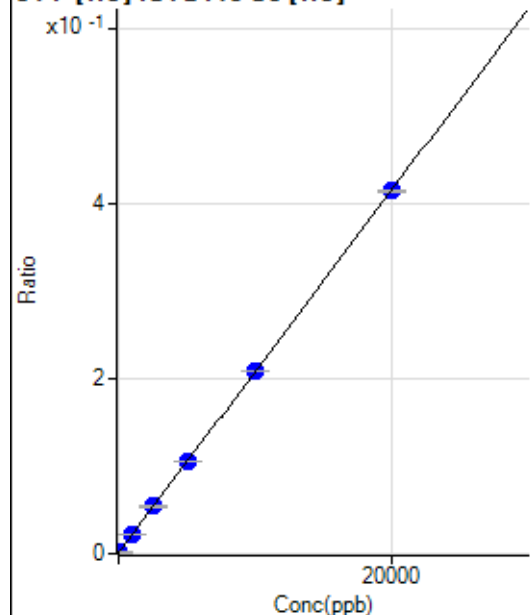
$$DL = 1.941$$

$$BEC = 46.47$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-8.714	663.36	0.0008	P	8.5
2	☐	0.000	8.714	978.93	0.0011	P	5.1
3	☐	1000.000	1009.848	19088.66	0.0219	P	2.6
4	☐	2500.000	2558.453	46476.88	0.0540	P	0.4
5	☐	5000.000	5055.065	88435.63	0.1058	P	1.3
6	☐	10000.000	10025.755	176662.23	0.2089	P	0.8
7	☐	20000.000	19965.557	346535.65	0.4151	P	0.3
8	☐			812.25	0.0010	P	2.2

$$y = 2.0743E-005 * x + 9.4437E-004$$

$$R = 1.0000$$

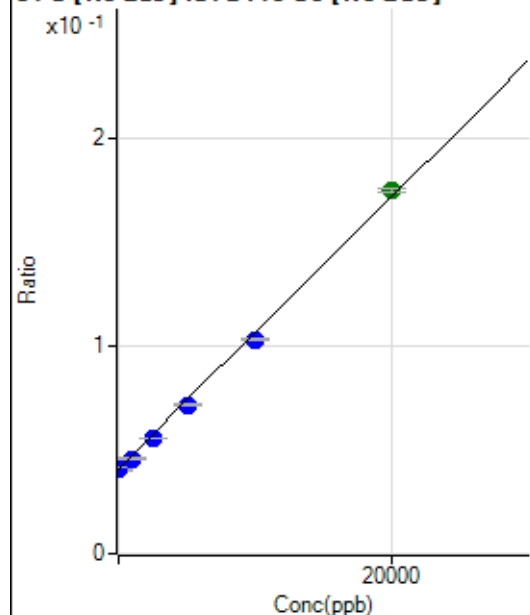
$$DL = 8.84$$

$$BEC = 45.53$$

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	-89.639	386473.78	0.0405	P	2.1
2	☐	0.000	89.639	391560.80	0.0417	P	1.7
3	☐	1000.000	698.985	449156.19	0.0457	P	1.4
4	☐	2500.000	2241.311	542037.33	0.0558	P	0.7
5	☐	5000.000	4645.759	672985.72	0.0716	P	0.8
6	☐	10000.000	9467.440	973749.50	0.1032	P	0.3
7	☐	20000.000	20402.227	1636637.46	0.1749	A	1.0
8	☐			332353.56	0.0358	P	3.3

$$y = 6.5556E-006 * x + 0.0411$$

R = 0.9993

DL = 361.1

BEC = 6270

Weight: <None>

Min Conc: 0

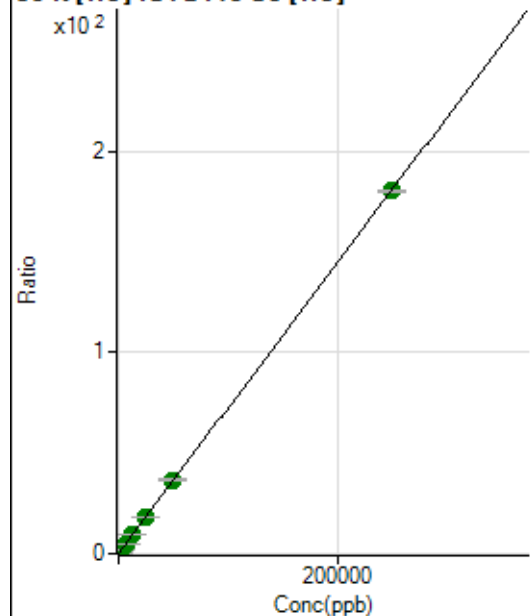
35 Cl [No Gas] No available calibration points



	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	91503.81	0.1053	P	0.8
2	☐	500.000	527.497	422469.44	0.4856	P	0.4
3	☐	2500.000	2596.706	1724427.41	1.9775	A	1.4
4	☐	6250.000	6433.680	4081834.63	4.7438	A	0.5
5	☐	12500.000	12731.671	7760554.47	9.2845	A	1.4
6	☐	25000.000	25315.385	15523421.30	18.3571	A	0.8
7	☐	50000.000	50850.148	30694642.60	36.7670	A	0.5
8	☐	250000.00	249781.23	150702356.64	180.1911	A	0.8

$$y = 7.2097E-004 * x + 0.1053$$

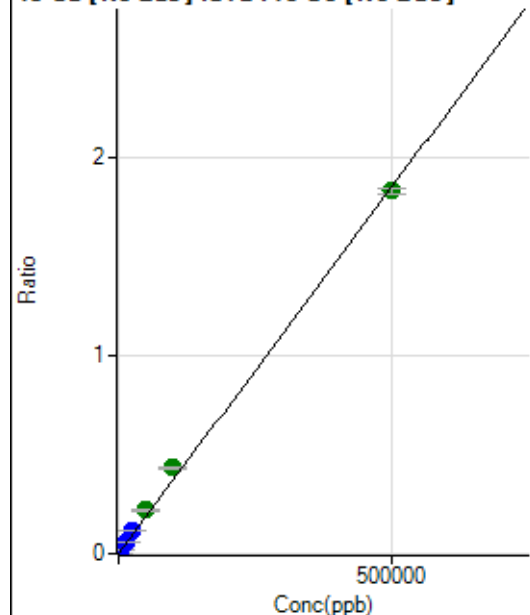
$$R = 1.0000$$

$$DL = 3.301$$

$$BEC = 146.1$$

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	245.56	0.0000	P	19.6
2	☐	500.000	516.604	18212.16	0.0019	P	1.6
3	☐	5000.000	6174.421	225017.39	0.0229	P	1.3
4	☐	12500.000	15462.789	556444.76	0.0573	P	0.5
5	☐	25000.000	30675.947	1068374.46	0.1136	P	1.6
6	☐	50000.000	59165.313	2067867.64	0.2191	A	1.3
7	☐	100000.00	117404.38	4069068.83	0.4347	A	1.5
8	☐	500000.00	495232.96	17023807.94	1.8337	A	1.3

$$y = 3.7027E-006 * x + 2.5788E-005$$

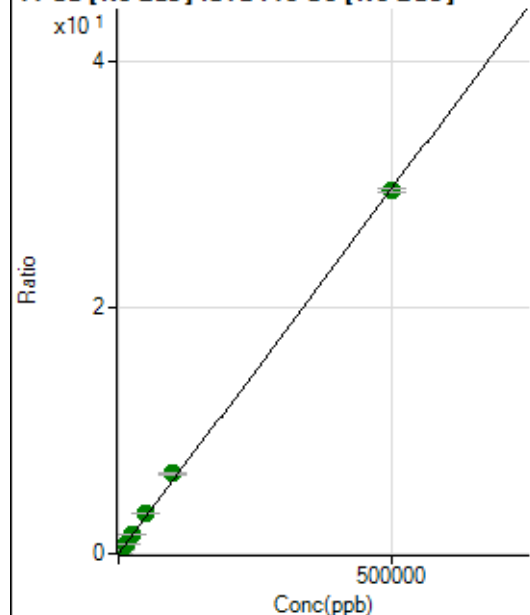
R = 0.9993

DL = 4.086

BEC = 6.965

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	14453.18	0.0015	P	1.5
2	☐	500.000	523.596	305192.31	0.0325	P	0.2
3	☐	5000.000	5607.445	3276072.66	0.3332	A	1.7
4	☐	12500.000	13835.571	7965734.95	0.8200	A	0.7
5	☐	25000.000	27321.456	15213227.27	1.6178	A	1.8
6	☐	50000.000	55118.218	30787821.21	3.2621	A	2.2
7	☐	100000.00	109916.69	60873975.21	6.5039	A	1.7
8	☐	500000.00	497349.27	273162900.38	29.4232	A	1.1

$$y = 5.9157E-005 * x + 0.0015$$

R = 0.9998

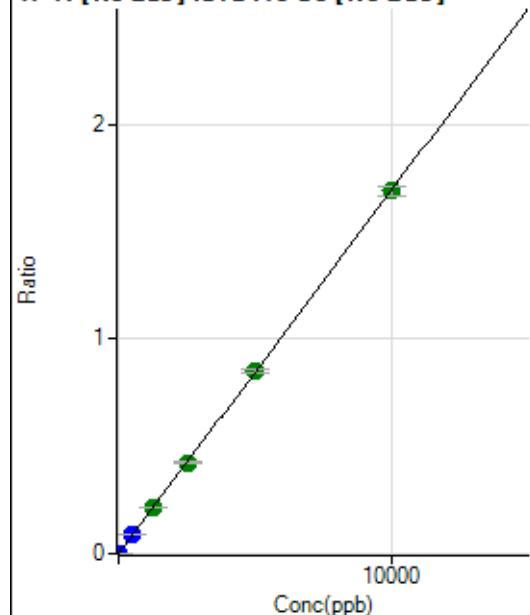
DL = 1.168

BEC = 25.61

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	176.67	0.0000	P	10.6
2	☐	5.000	5.252	8529.16	0.0009	P	2.5
3	☐	500.000	512.045	852934.20	0.0868	P	1.5
4	☐	1250.000	1267.824	2086526.04	0.2148	A	1.2
5	☐	2500.000	2511.992	4001940.39	0.4256	A	1.0
6	☐	5000.000	5024.769	8033751.69	0.8512	A	1.8
7	☐	10000.000	9981.787	15825877.68	1.6909	A	2.6
8	☐			2812.54	0.0003	P	34.5

$$y = 1.6940E-004 * x + 1.8512E-005$$

$$R = 1.0000$$

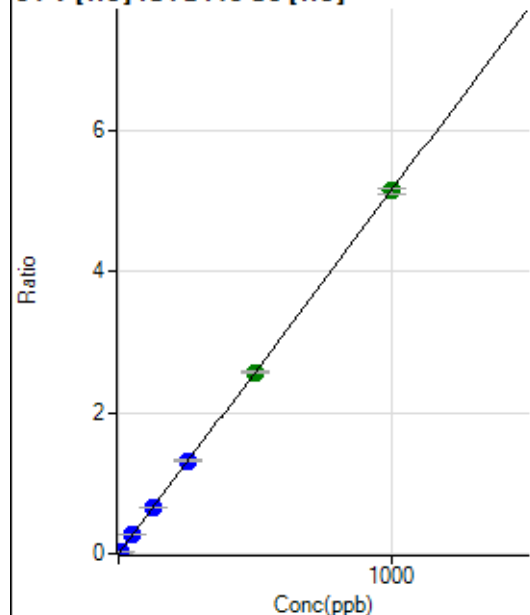
$$DL = 0.03486$$

$$BEC = 0.1093$$

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	14.44	0.0000	P	53.4
2	☐	5.000	4.932	22099.56	0.0254	P	1.1
3	☐	50.000	51.194	229852.97	0.2636	P	0.6
4	☐	125.000	127.283	563809.94	0.6553	P	0.3
5	☐	250.000	256.553	1103949.67	1.3207	P	1.0
6	☐	500.000	499.241	2173340.89	2.5700	A	0.6
7	☐	1000.000	998.396	4290672.02	5.1396	A	1.4
8	☐			1121.16	0.0013	P	8.2

$$y = 0.0051 * x + 1.6632E-005$$

$$R = 1.0000$$

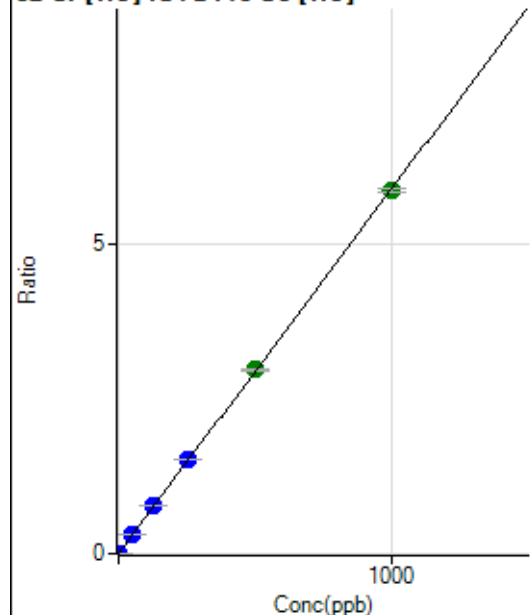
$$DL = 0.005179$$

$$BEC = 0.003231$$

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	2509.12	0.0029	P	2.4
2	☐	2.000	2.106	13295.95	0.0153	P	2.1
3	☐	50.000	52.138	270159.41	0.3098	P	1.2
4	☐	125.000	129.633	659085.79	0.7660	P	0.3
5	☐	250.000	259.435	1278949.01	1.5301	P	0.9
6	☐	500.000	503.603	2509336.86	2.9674	A	1.2
7	☐	1000.000	995.153	4892954.16	5.8609	A	0.9
8	☐			30408.37	0.0364	P	1.5

$$y = 0.0059 * x + 0.0029$$

$$R = 0.9999$$

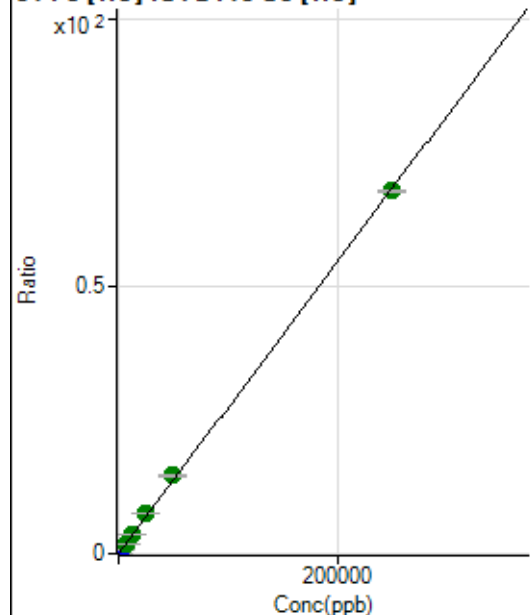
$$DL = 0.03595$$

$$BEC = 0.4906$$

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	2759.17	0.0032	P	1.9
2	☐	50.000	58.118	16555.86	0.0190	P	1.5
3	☐	2500.000	2955.694	706043.87	0.8096	P	0.0
4	☐	6250.000	6941.522	1632295.57	1.8970	A	0.5
5	☐	12500.000	13716.793	3130673.11	3.7455	A	1.4
6	☐	25000.000	27217.790	6282223.38	7.4289	A	0.9
7	☐	50000.000	53697.135	12232844.12	14.6532	A	1.4
8	☐	250000.00	248956.10	56809133.04	67.9252	A	0.8

$$y = 2.7283E-004 * x + 0.0032$$

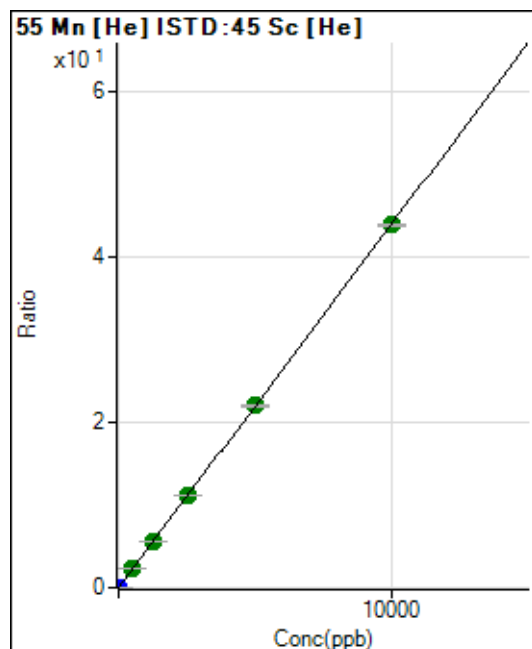
$$R = 0.9999$$

$$DL = 0.6477$$

$$BEC = 11.64$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	295.56	0.0003	P	23.8
2	☐	1.000	1.080	4420.69	0.0051	P	4.4
3	☐	500.000	517.161	1981171.67	2.2717	A	1.2
4	☐	1250.000	1277.157	4826775.80	5.6095	A	1.4
5	☐	2500.000	2540.378	9325939.65	11.1575	A	1.4
6	☐	5000.000	5009.489	18605401.94	22.0016	A	0.6
7	☐	10000.000	9980.908	36595598.90	43.8356	A	0.7
8	☐			27726.68	0.0332	P	1.0

$$y = 0.0044 * x + 3.4012E-004$$

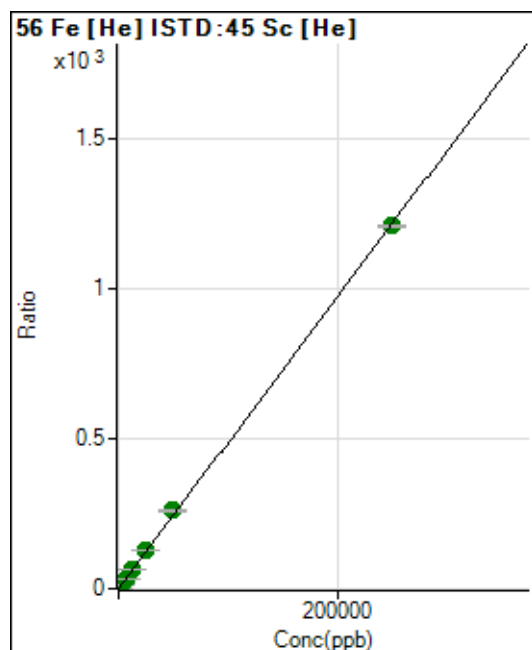
$$R = 1.0000$$

$$DL = 0.05529$$

$$BEC = 0.07744$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18855.26	0.0217	P	0.6
2	☐	50.000	57.121	260186.91	0.2991	P	0.8
3	☐	2500.000	2727.658	11571117.88	13.2678	A	1.0
4	☐	6250.000	6782.580	28360135.13	32.9594	A	1.0
5	☐	12500.000	13595.054	55200844.18	66.0422	A	1.5
6	☐	25000.000	26874.260	110380303.91	130.5288	A	1.2
7	☐	50000.000	53484.175	216850383.44	259.7522	A	0.8
8	☐	250000.00	249045.39	1011549229.3	1,209.439	A	0.8

$$y = 0.0049 * x + 0.0217$$

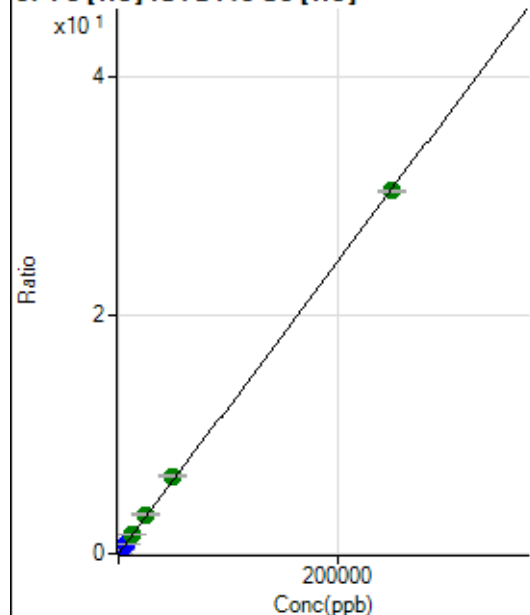
$$R = 0.9999$$

$$DL = 0.08277$$

$$BEC = 4.469$$

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	1031.16	0.0012	P	3.9
2	☐	50.000	58.390	7242.92	0.0083	P	0.9
3	☐	2500.000	2892.391	309389.84	0.3548	P	1.8
4	☐	6250.000	7178.822	756201.75	0.8788	P	0.3
5	☐	12500.000	13705.992	1401553.91	1.6768	A	1.8
6	☐	25000.000	26996.210	2792009.61	3.3017	A	0.6
7	☐	50000.000	53283.805	5439291.72	6.5155	A	1.3
8	☐	250000.00	249056.17	25467402.12	30.4499	A	0.7

$$y = 1.2226\text{E-}004 * x + 0.0012$$

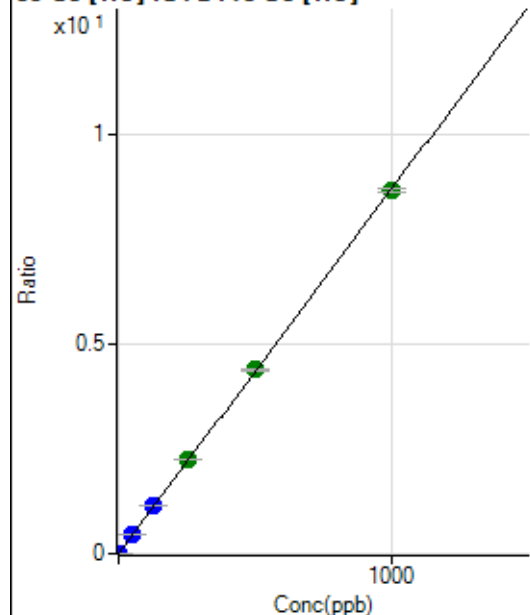
R = 0.9999

DL = 1.149

BEC = 9.708

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	83.33	0.0001	P	3.8
2	☐	1.000	1.053	8038.88	0.0092	P	1.4
3	☐	50.000	53.366	404310.62	0.4636	P	1.2
4	☐	125.000	131.556	983290.41	1.1428	P	0.3
5	☐	250.000	258.190	1874487.28	2.2427	A	1.9
6	☐	500.000	504.119	3702841.30	4.3788	A	1.5
7	☐	1000.000	994.905	7214293.78	8.6416	A	1.1
8	☐			19830.98	0.0237	P	1.4

$$y = 0.0087 * x + 9.5912\text{E-}005$$

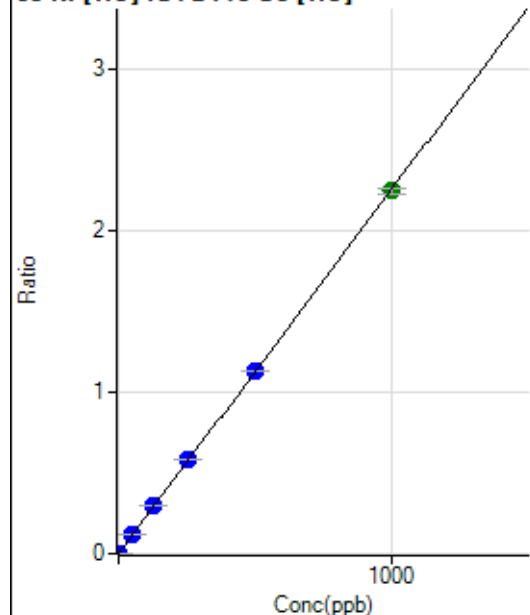
R = 0.9999

DL = 0.001268

BEC = 0.01104

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	151.11	0.0002	P	31.1
2	☐	1.000	1.075	2259.09	0.0026	P	6.9
3	☐	50.000	53.331	104970.54	0.1204	P	1.3
4	☐	125.000	130.085	252410.48	0.2933	P	0.3
5	☐	250.000	257.961	486102.31	0.5815	P	0.8
6	☐	500.000	501.777	956447.13	1.1310	P	0.3
7	☐	1000.000	996.319	1874659.18	2.2456	A	1.5
8	☐			13023.50	0.0156	P	0.5

$$y = 0.0023 * x + 1.7386E-004$$

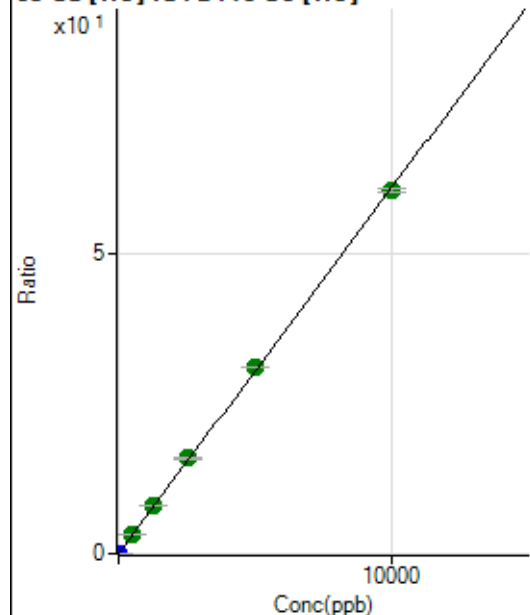
$$R = 1.0000$$

$$DL = 0.07204$$

$$BEC = 0.07715$$

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	1155.61	0.0013	P	6.9
2	☐	2.000	2.094	12231.73	0.0141	P	2.8
3	☐	500.000	533.735	2831196.73	3.2466	A	1.8
4	☐	1250.000	1307.089	6839448.51	7.9487	A	0.7
5	☐	2500.000	2604.827	13239062.72	15.8393	A	1.7
6	☐	5000.000	5088.117	26162675.44	30.9383	A	0.4
7	☐	10000.000	9920.912	50359256.47	60.3228	A	1.2
8	☐			38988.46	0.0466	P	0.4

$$y = 0.0061 * x + 0.0013$$

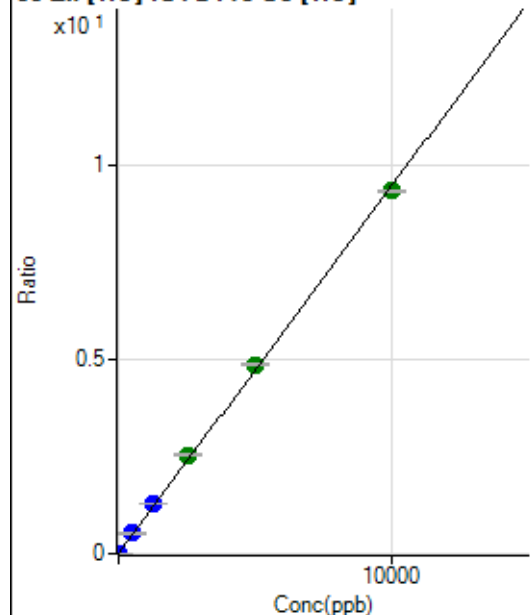
$$R = 0.9999$$

$$DL = 0.04498$$

$$BEC = 0.2187$$

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	4391.80	0.0051	P	4.9
2	☐	2.000	2.233	6233.57	0.0072	P	2.6
3	☐	500.000	546.880	455147.20	0.5220	P	2.1
4	☐	1250.000	1346.298	1099298.92	1.2776	P	0.6
5	☐	2500.000	2673.753	2116649.78	2.5323	A	1.5
6	☐	5000.000	5139.392	4112254.90	4.8629	A	0.6
7	☐	10000.000	9872.484	7794656.34	9.3366	A	0.5
8	☐			17968.68	0.0215	P	0.3

$$y = 9.4521\text{E-}004 * x + 0.0051$$

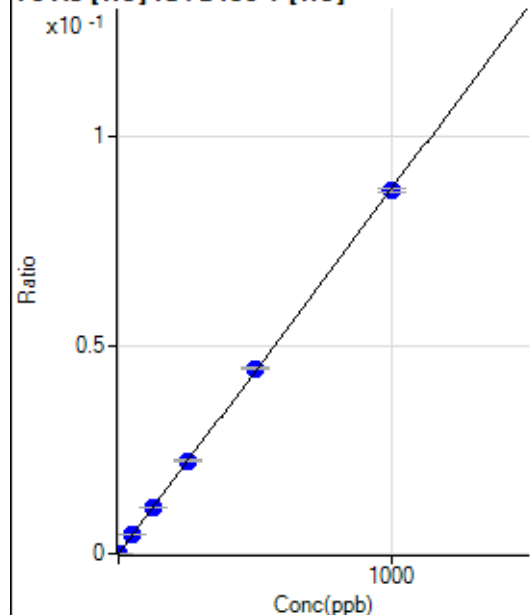
$$R = 0.9997$$

$$DL = 0.7896$$

$$BEC = 5.348$$

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	4.44	0.0000	P	42.6
2	☐	1.000	1.020	562.24	0.0001	P	9.4
3	☐	50.000	52.367	28546.40	0.0046	P	2.2
4	☐	125.000	128.154	69482.83	0.0112	P	1.1
5	☐	250.000	255.560	135854.10	0.0224	P	1.4
6	☐	500.000	506.768	273932.61	0.0444	P	1.2
7	☐	1000.000	994.713	534333.68	0.0871	P	1.1
8	☐			213.34	0.0000	P	21.5

$$y = 8.7558\text{E-}005 * x + 7.1504\text{E-}007$$

$$R = 0.9999$$

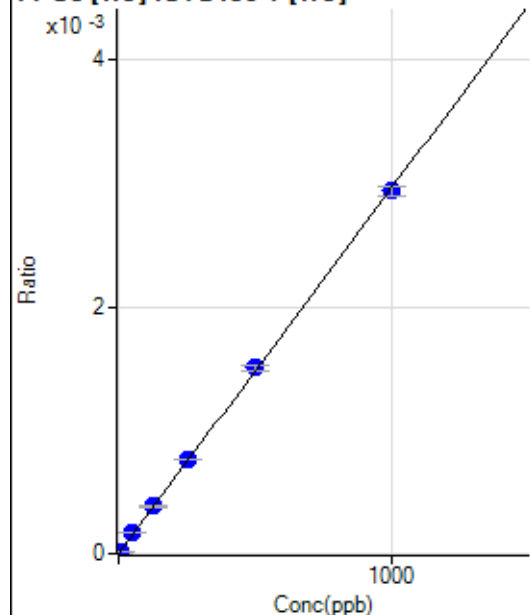
$$DL = 0.01043$$

$$BEC = 0.008166$$

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	2.22	0.0000	P	86.6
2	☐	5.000	4.745	90.00	0.0000	P	22.9
3	☐	50.000	56.314	1040.05	0.0002	P	2.2
4	☐	125.000	129.922	2383.55	0.0004	P	2.9
5	☐	250.000	257.151	4624.10	0.0008	P	0.6
6	☐	500.000	509.130	9306.33	0.0015	P	2.8
7	☐	1000.000	992.718	18029.94	0.0029	P	2.4
8	☐			96.67	0.0000	P	6.5

$$y = 2.9603\text{E-}006 * x + 3.5752\text{E-}007$$

$$R = 0.9999$$

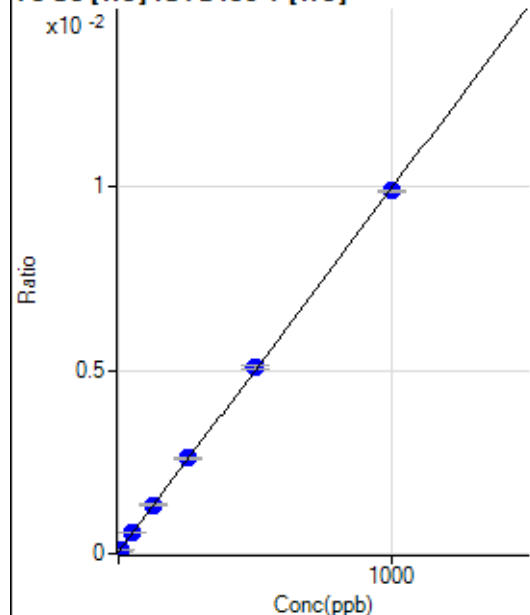
$$DL = 0.3138$$

$$BEC = 0.1208$$

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	291.12	0.0000	P	14.1
2	☐	5.000	4.519	573.35	0.0001	P	1.9
3	☐	50.000	52.064	3508.22	0.0006	P	3.7
4	☐	125.000	129.187	8225.68	0.0013	P	3.8
5	☐	250.000	257.430	15788.54	0.0026	P	2.1
6	☐	500.000	509.048	31465.68	0.0051	P	1.6
7	☐	1000.000	992.994	60725.00	0.0099	P	0.2
8	☐			562.24	0.0001	P	6.6

$$y = 9.9201\text{E-}006 * x + 4.6956\text{E-}005$$

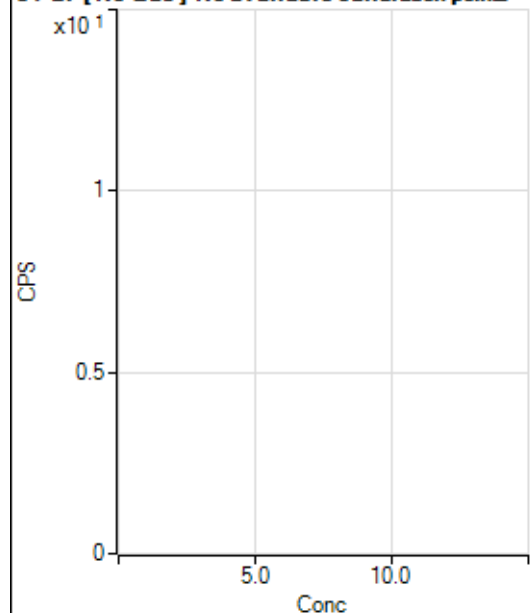
$$R = 0.9999$$

$$DL = 2.002$$

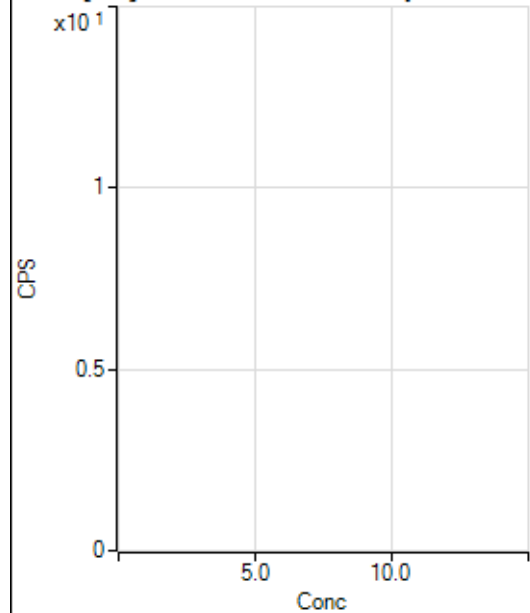
$$BEC = 4.733$$

Weight: <None>

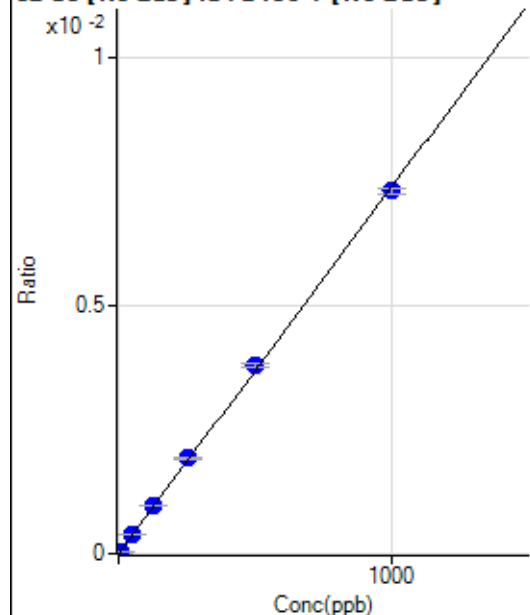
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23577.85		P	1.1
2	☐			23462.14		P	1.2
3	☐			22572.93		P	1.2
4	☐			22074.44		P	0.6
5	☐			21885.24		P	2.9
6	☐			22191.22		P	0.7
7	☐			23022.52		P	0.9
8	☐			26203.33		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			223.34		P	9.3
2	☐			228.89		P	7.5
3	☐			103.34		P	11.6
4	☐			104.45		P	12.1
5	☐			122.23		P	17.7
6	☐			135.56		P	9.9
7	☐			161.11		P	16.1
8	☐			678.91		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	842.
2	☐	5.000	5.243	963.46	0.0000	P	11.2
3	☐	50.000	54.557	10398.71	0.0004	P	0.9
4	☐	125.000	131.617	25135.57	0.0010	P	1.8
5	☐	250.000	260.626	49090.27	0.0019	P	0.8
6	☐	500.000	512.619	97595.64	0.0038	P	1.8
7	☐	1000.000	989.978	189539.23	0.0073	P	1.5
8	☐			1157.14	0.0000	P	1.9

$$y = 7.3886\text{E-}006 * x + 8.6954\text{E-}008$$

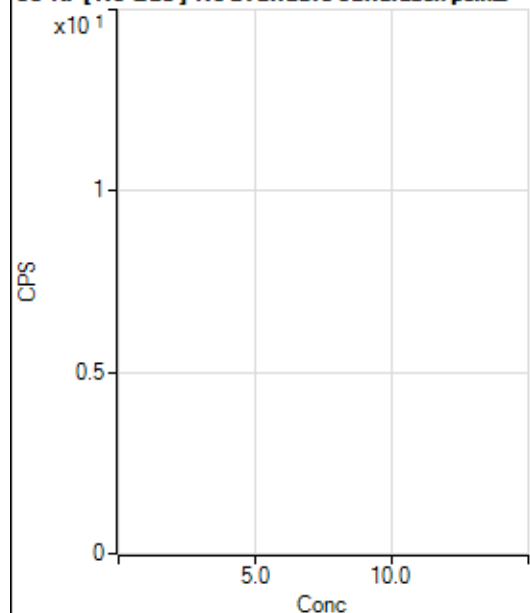
R = 0.9998

DL = 0.2974

BEC = 0.01177

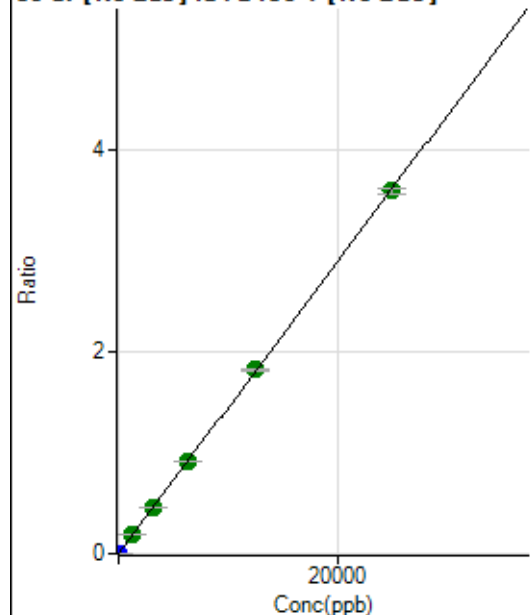
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			175.56		P	9.0
2	☐			174.45		P	11.5
3	☐			154.45		P	19.3
4	☐			163.34		P	10.6
5	☐			186.67		P	8.2
6	☐			195.56		P	18.8
7	☐			204.45		P	10.0
8	☐			198.89		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	324.45	0.0000	P	1.6
2	☐	1.000	1.008	3935.01	0.0002	P	3.8
3	☐	1250.000	1307.431	4870056.42	0.1888	A	1.3
4	☐	3125.000	3194.422	11923988.85	0.4614	A	0.7
5	☐	6250.000	6366.852	23440277.71	0.9195	A	0.2
6	☐	12500.000	12612.887	46937817.08	1.8216	A	0.8
7	☐	25000.000	24902.794	93193761.95	3.5965	A	1.8
8	☐			17258.85	0.0007	P	33.0

$$y = 1.4442\text{E-}004 * x + 1.2763\text{E-}005$$

$$R = 1.0000$$

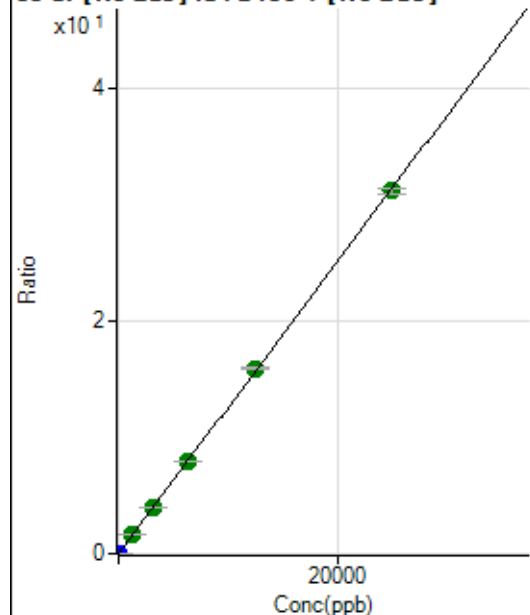
$$DL = 0.00431$$

$$BEC = 0.08837$$

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	265.56	0.0000	P	8.1
2	☐	1.000	1.046	32876.75	0.0013	P	1.5
3	☐	1250.000	1291.173	41773054.65	1.6197	A	0.7
4	☐	3125.000	3193.869	103562057.35	4.0066	A	1.0
5	☐	6250.000	6334.794	202580645.87	7.9468	A	0.2
6	☐	12500.000	12682.007	409941793.89	15.9092	A	1.2
7	☐	25000.000	24877.131	808664681.28	31.2076	A	1.4
8	☐			148727.86	0.0060	P	33.7

$$y = 0.0013 * x + 1.0441\text{E-}005$$

$$R = 1.0000$$

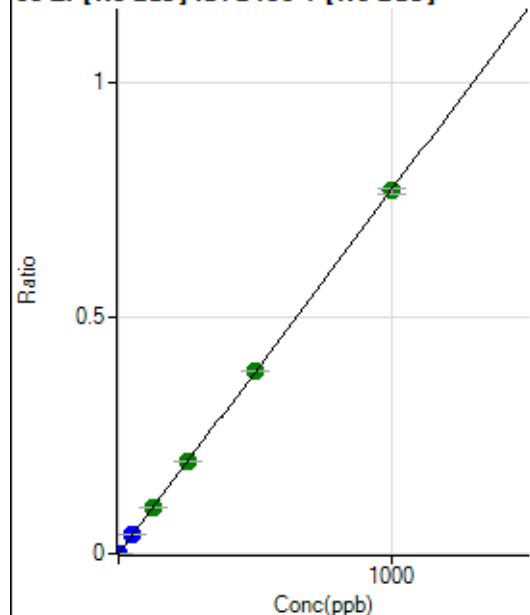
$$DL = 0.002027$$

$$BEC = 0.008323$$

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	898.93	0.0000	P	12.9
2	☐	1.000	0.966	19387.32	0.0008	P	2.6
3	☐	50.000	51.466	1024226.21	0.0397	P	1.0
4	☐	125.000	128.009	2551721.20	0.0987	A	0.5
5	☐	250.000	252.607	4965740.62	0.1948	A	1.0
6	☐	500.000	502.290	9979940.82	0.3873	A	0.4
7	☐	1000.000	997.754	19934526.93	0.7693	A	1.6
8	☐			10609.50	0.0004	P	8.1

$$y = 7.7100\text{E-}004 * x + 3.5338\text{E-}005$$

$$R = 1.0000$$

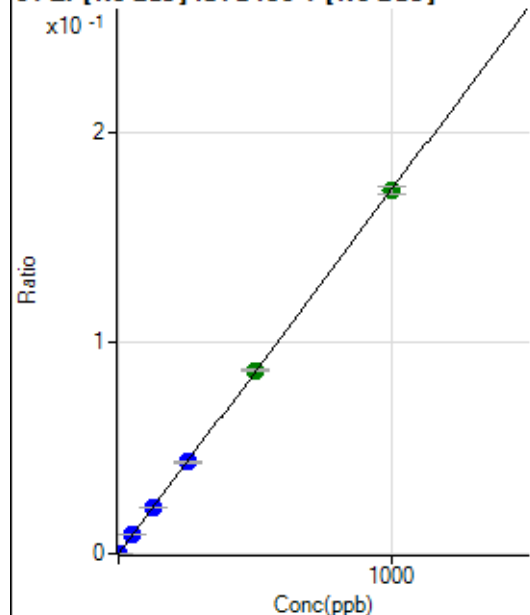
$$DL = 0.01772$$

$$BEC = 0.04583$$

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	161.11	0.0000	P	14.8
2	☐	1.000	0.968	4314.01	0.0002	P	2.2
3	☐	50.000	51.479	229492.77	0.0089	P	2.0
4	☐	125.000	127.581	569768.43	0.0220	P	1.7
5	☐	250.000	253.123	1114788.97	0.0437	P	1.9
6	☐	500.000	504.029	2243724.05	0.0871	A	0.4
7	☐	1000.000	996.808	4462043.40	0.1722	A	2.2
8	☐			2349.10	0.0001	P	9.2

$$y = 1.7274\text{E-}004 * x + 6.3328\text{E-}006$$

$$R = 1.0000$$

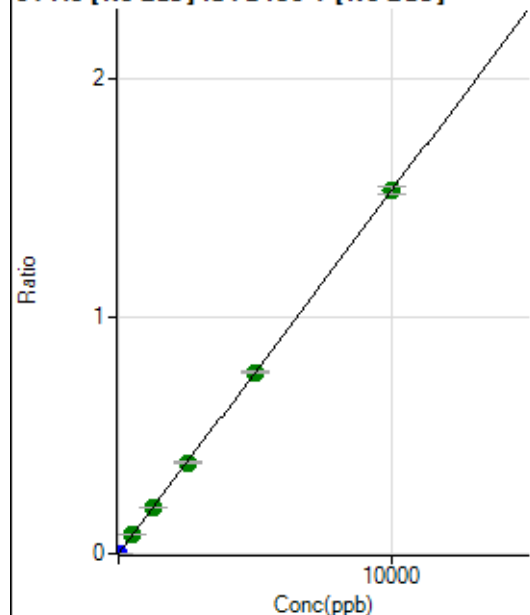
$$DL = 0.01624$$

$$BEC = 0.03666$$

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	301.12	0.0000	P	8.4
2	☐	5.000	6.030	23220.65	0.0009	P	2.1
3	☐	500.000	520.854	2055023.88	0.0797	A	1.2
4	☐	1250.000	1270.881	5024799.20	0.1944	A	0.6
5	☐	2500.000	2510.487	9789981.52	0.3840	A	0.6
6	☐	5000.000	4991.697	19675910.26	0.7636	A	1.1
7	☐	10000.000	9997.876	39629995.52	1.5294	A	2.2
8	☐			12839.20	0.0005	P	18.4

$$y = 1.5297\text{E-}004 * x + 1.1847\text{E-}005$$

$$R = 1.0000$$

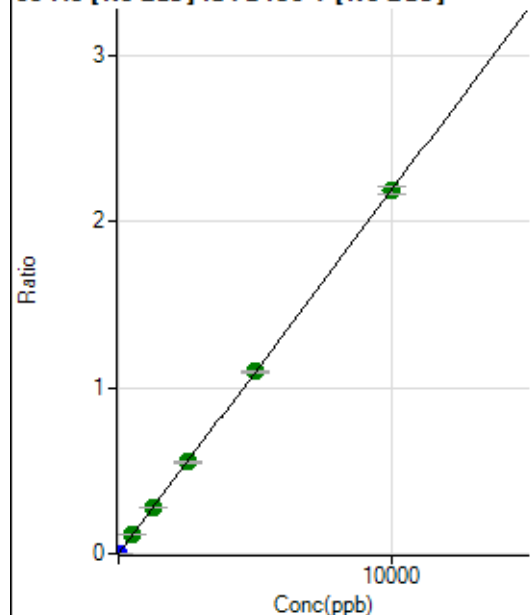
$$DL = 0.01957$$

$$BEC = 0.07745$$

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	36.67	0.0000	P	26.7
2	☐	5.000	5.154	28097.03	0.0011	P	1.6
3	☐	500.000	521.645	2946916.45	0.1143	A	0.3
4	☐	1250.000	1263.931	7155207.32	0.2769	A	1.2
5	☐	2500.000	2521.196	14078173.96	0.5523	A	0.7
6	☐	5000.000	5017.575	28320433.19	1.0991	A	1.4
7	☐	10000.000	9983.090	56663725.27	2.1868	A	2.0
8	☐			14850.15	0.0006	P	21.9

$$y = 2.1905\text{E-}004 * x + 1.4405\text{E-}006$$

$$R = 1.0000$$

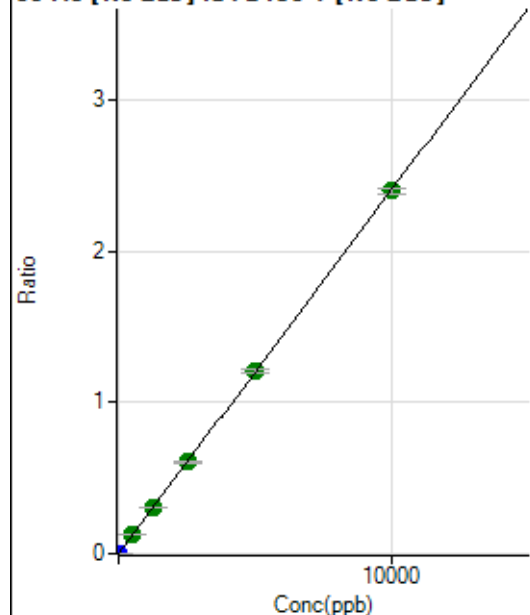
$$DL = 0.005262$$

$$BEC = 0.006576$$

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	108.89	0.0000	P	11.0
2	☐	5.000	5.232	31358.07	0.0013	P	1.4
3	☐	500.000	522.356	3236977.00	0.1255	A	0.7
4	☐	1250.000	1265.534	7858568.77	0.3041	A	1.5
5	☐	2500.000	2521.180	15442603.10	0.6058	A	1.1
6	☐	5000.000	5034.568	31170304.26	1.2097	A	1.7
7	☐	10000.000	9974.361	62102261.30	2.3966	A	1.3
8	☐			28382.42	0.0012	P	12.4

$$y = 2.4028\text{E-}004 * x + 4.2811\text{E-}006$$

$$R = 1.0000$$

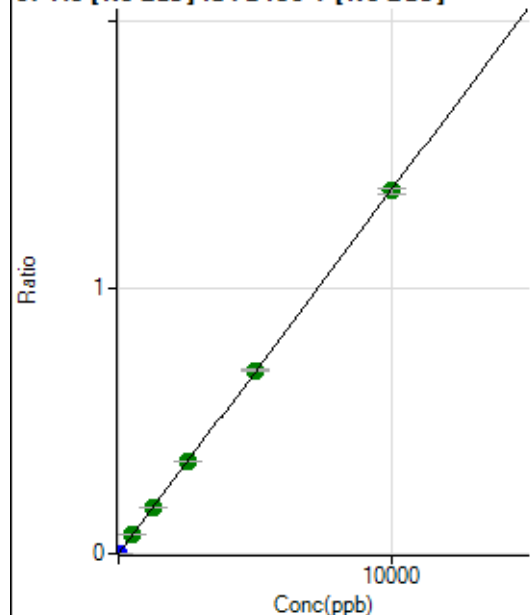
$$DL = 0.005853$$

$$BEC = 0.01782$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	21.11	0.0000	P	48.0
2	☐	5.000	5.166	17578.42	0.0007	P	0.8
3	☐	500.000	520.335	1834287.51	0.0711	A	2.1
4	☐	1250.000	1271.328	4491657.99	0.1738	A	0.7
5	☐	2500.000	2520.833	8784473.62	0.3446	A	0.6
6	☐	5000.000	5035.492	17736940.29	0.6883	A	1.3
7	☐	10000.000	9973.363	35327703.92	1.3634	A	1.6
8	☐			9324.30	0.0004	P	23.9

$$y = 1.3670\text{E-}004 * x + 8.3024\text{E-}007$$

$$R = 1.0000$$

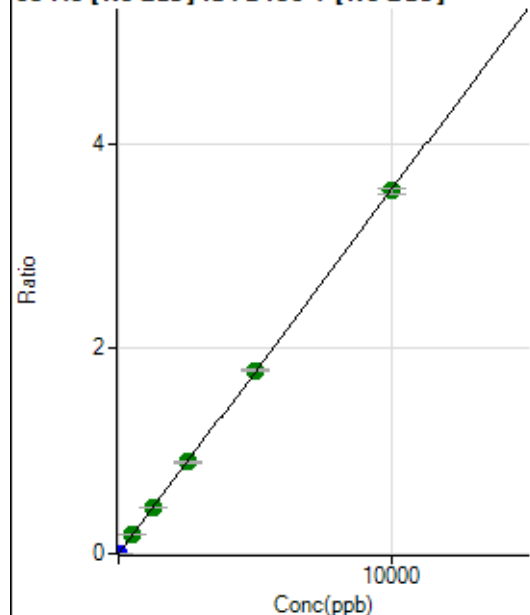
$$DL = 0.008741$$

$$BEC = 0.006073$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.33	0.0000	P	27.0
2	☐	5.000	5.175	45675.77	0.0018	P	0.2
3	☐	500.000	513.065	4690460.73	0.1819	A	0.8
4	☐	1250.000	1272.864	11661456.77	0.4512	A	1.5
5	☐	2500.000	2520.110	22773289.11	0.8933	A	1.0
6	☐	5000.000	5038.991	46026988.76	1.7863	A	1.3
7	☐	10000.000	9971.966	91598504.19	3.5349	A	1.4
8	☐			22877.85	0.0009	P	25.7

$$y = 3.5449\text{E-}004 * x + 2.4865\text{E-}006$$

$$R = 1.0000$$

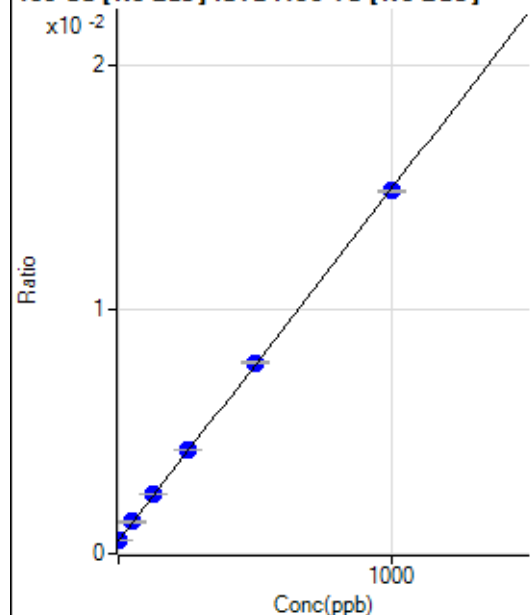
$$DL = 0.005683$$

$$BEC = 0.007014$$

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	10643.99	0.0005	P	2.1
2	☐	1.000	0.273	10638.42	0.0005	P	0.3
3	☐	50.000	54.570	27263.46	0.0013	P	2.2
4	☐	125.000	132.074	51090.70	0.0024	P	1.2
5	☐	250.000	258.597	88794.60	0.0043	P	0.6
6	☐	500.000	505.634	166002.50	0.0078	P	0.9
7	☐	1000.000	993.922	311423.07	0.0149	P	0.2
8	☐			10587.29	0.0005	P	0.8

$$y = 1.4417\text{E-}005 * x + 5.2458\text{E-}004$$

$$R = 0.9999$$

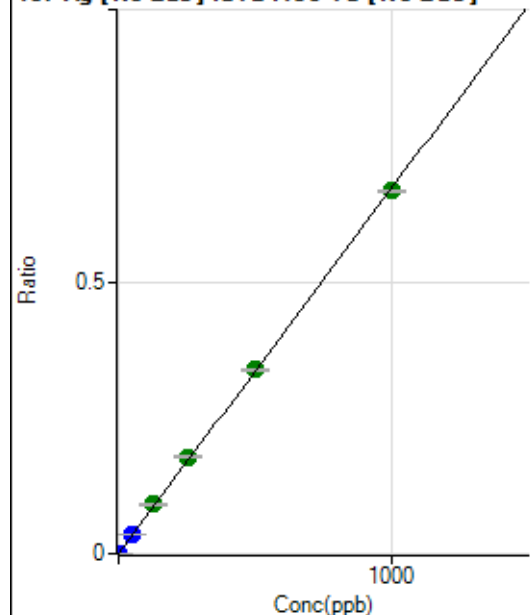
$$DL = 2.292$$

$$BEC = 36.39$$

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	111.11	0.0000	P	11.0
2	☐	1.000	1.054	14371.68	0.0007	P	1.3
3	☐	50.000	54.570	762618.35	0.0367	P	0.9
4	☐	125.000	134.624	1903284.97	0.0905	A	1.0
5	☐	250.000	265.487	3724982.20	0.1784	A	1.3
6	☐	500.000	503.242	7184017.88	0.3382	A	0.4
7	☐	1000.000	993.076	13991177.15	0.6673	A	0.3
8	☐			4026.18	0.0002	P	26.1

$$y = 6.7198\text{E-}004 * x + 5.4801\text{E-}006$$

$$R = 0.9998$$

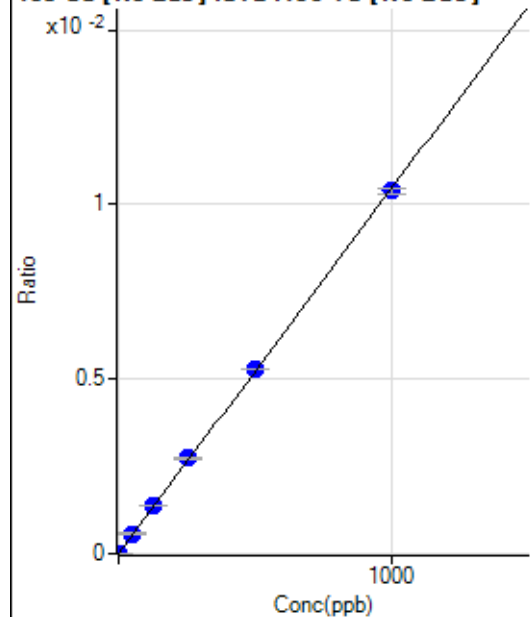
$$DL = 0.002694$$

$$BEC = 0.008155$$

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	16.67	0.0000	P	19.2
2	☐	1.000	1.062	240.00	0.0000	P	1.7
3	☐	50.000	55.078	11995.06	0.0006	P	1.5
4	☐	125.000	131.636	28981.19	0.0014	P	1.1
5	☐	250.000	261.430	57107.33	0.0027	P	1.2
6	☐	500.000	504.851	112188.53	0.0053	P	0.7
7	☐	1000.000	993.633	217906.03	0.0104	P	1.4
8	☐			198.89	0.0000	P	24.7

$$y = 1.0459\text{E-}005 * x + 8.2052\text{E-}007$$

$$R = 0.9999$$

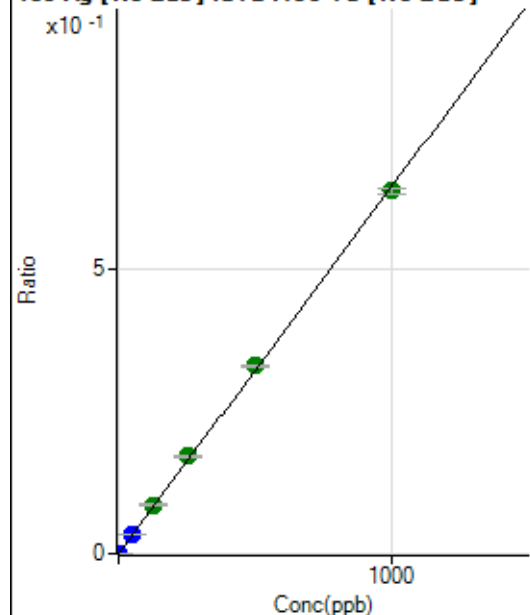
$$DL = 0.04509$$

$$BEC = 0.07845$$

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	45.56	0.0000	P	12.1
2	☐	1.000	1.059	13752.18	0.0007	P	3.6
3	☐	50.000	54.716	731574.61	0.0352	P	0.4
4	☐	125.000	133.278	1802826.10	0.0857	A	1.4
5	☐	250.000	265.259	3560991.23	0.1706	A	0.4
6	☐	500.000	511.902	6992185.03	0.3291	A	1.1
7	☐	1000.000	988.964	13331958.27	0.6359	A	1.4
8	☐			3696.09	0.0002	P	20.5

$$y = 6.4297\text{E-}004 * x + 2.2468\text{E-}006$$

$$R = 0.9998$$

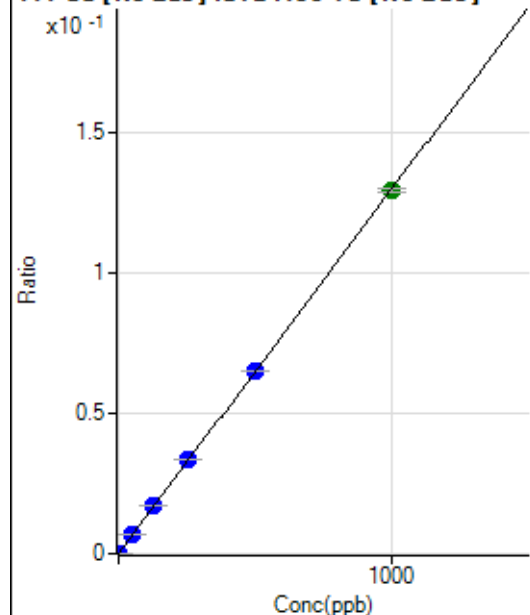
$$DL = 0.001273$$

$$BEC = 0.003494$$

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	1058.29	0.0001	P	2.4
2	☐	1.000	1.048	3789.49	0.0002	P	2.9
3	☐	50.000	53.788	146330.50	0.0070	P	1.3
4	☐	125.000	130.872	358642.35	0.0170	P	1.5
5	☐	250.000	258.529	702127.74	0.0336	P	1.0
6	☐	500.000	502.024	1386128.78	0.0652	P	0.6
7	☐	1000.000	995.932	2712897.01	0.1294	A	1.0
8	☐			2219.58	0.0001	P	8.7

$$y = 1.2987\text{E-}004 * x + 5.2158\text{E-}005$$

$$R = 0.9999$$

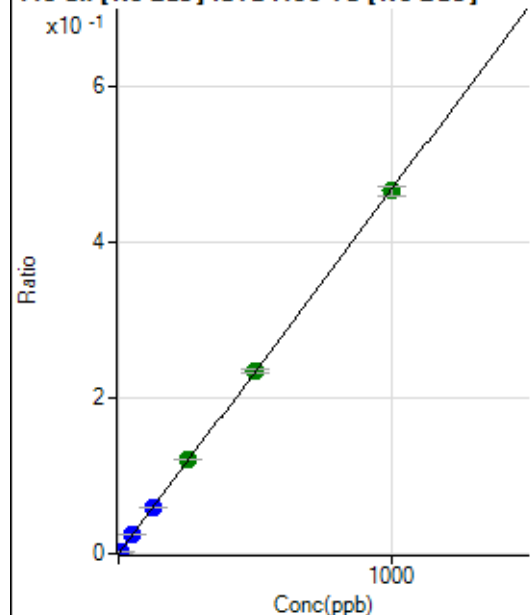
$$DL = 0.02905$$

$$BEC = 0.4016$$

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	1286.75	0.0001	P	4.8
2	☐	5.000	5.014	48435.62	0.0024	P	2.5
3	☐	50.000	52.593	512399.16	0.0246	P	0.8
4	☐	125.000	127.780	1257622.39	0.0598	P	1.1
5	☐	250.000	258.021	2519131.32	0.1206	A	1.0
6	☐	500.000	502.108	4986501.59	0.2347	A	1.8
7	☐	1000.000	996.463	9765447.84	0.4658	A	2.7
8	☐			7497.59	0.0004	P	6.9

$$y = 4.6735E-004 * x + 6.3434E-005$$

$$R = 1.0000$$

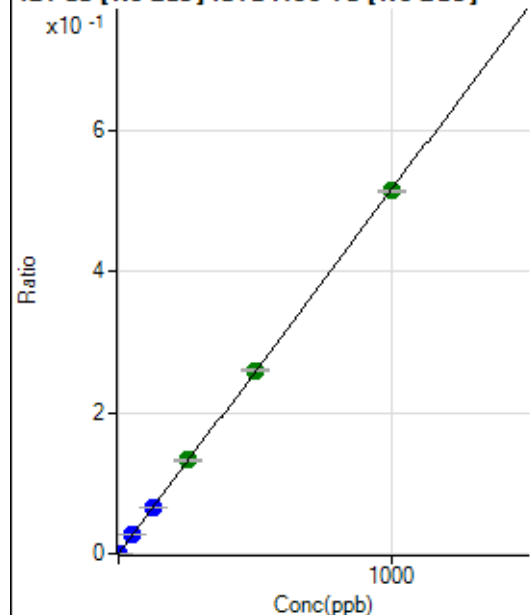
$$DL = 0.01954$$

$$BEC = 0.1357$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.78	0.0000	P	16.0
2	☐	2.000	2.010	20901.97	0.0010	P	0.6
3	☐	50.000	51.718	554451.50	0.0267	P	0.2
4	☐	125.000	125.982	1366448.96	0.0650	P	0.9
5	☐	250.000	257.082	2767435.41	0.1325	A	0.8
6	☐	500.000	502.725	5506040.96	0.2592	A	0.8
7	☐	1000.000	996.658	10773203.24	0.5138	A	0.8
8	☐			7329.73	0.0004	P	5.3

$$y = 5.1556E-004 * x + 2.3503E-006$$

$$R = 1.0000$$

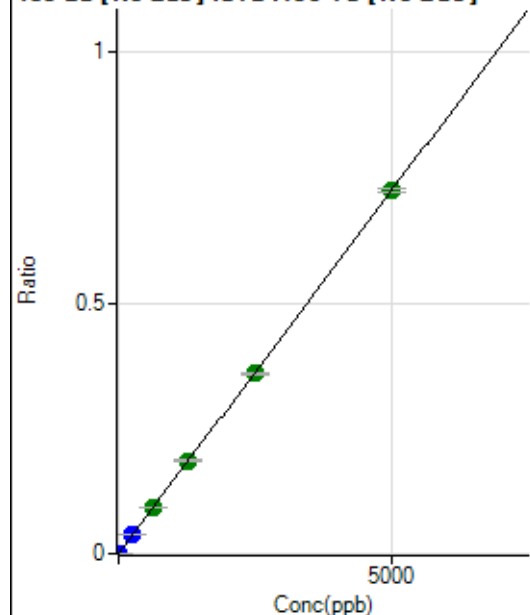
$$DL = 0.002186$$

$$BEC = 0.004559$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.00	0.0000	P	39.4
2	☐	10.000	9.706	28331.52	0.0014	P	1.2
3	☐	250.000	253.842	764753.29	0.0368	P	0.6
4	☐	625.000	643.684	1961976.59	0.0933	A	0.8
5	☐	1250.000	1279.439	3870484.42	0.1854	A	1.4
6	☐	2500.000	2483.669	7644692.11	0.3599	A	1.0
7	☐	5000.000	4998.279	15183974.78	0.7242	A	1.1
8	☐			10110.35	0.0005	P	8.4

$$y = 1.4489\text{E-}004 * x + 1.4740\text{E-}006$$

$$R = 1.0000$$

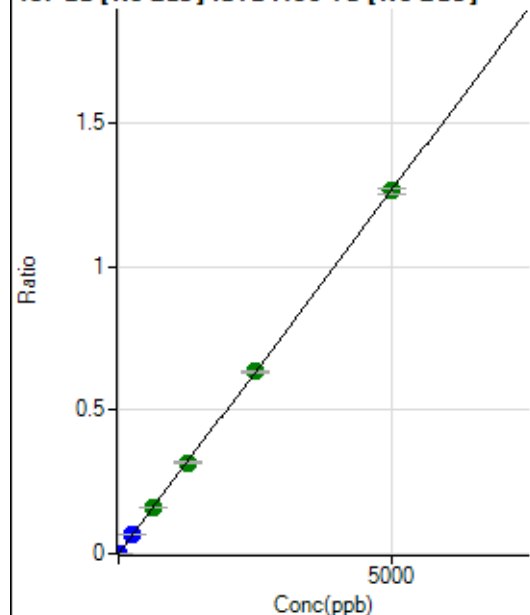
$$DL = 0.01204$$

$$BEC = 0.01017$$

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	43.33	0.0000	P	28.4
2	☐	10.000	9.577	48826.93	0.0024	P	1.0
3	☐	250.000	252.771	1330283.91	0.0640	P	0.5
4	☐	625.000	635.061	3381282.24	0.1607	A	1.4
5	☐	1250.000	1252.866	6621171.01	0.3171	A	1.2
6	☐	2500.000	2506.334	13476149.10	0.6344	A	0.7
7	☐	5000.000	4994.721	26505400.44	1.2642	A	1.4
8	☐			17796.85	0.0009	P	9.6

$$y = 2.5311\text{E-}004 * x + 2.1374\text{E-}006$$

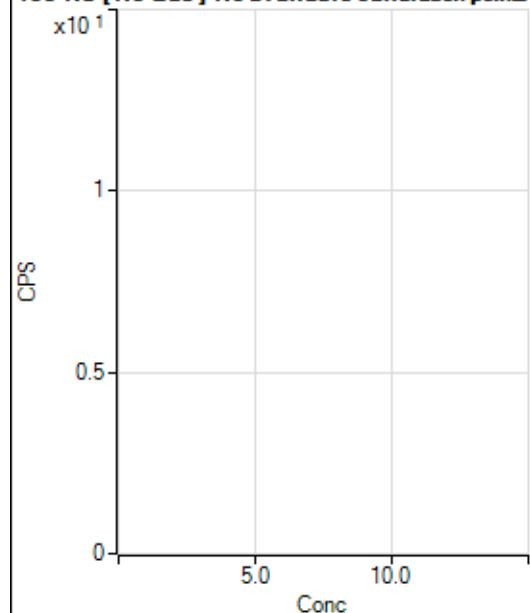
$$R = 1.0000$$

$$DL = 0.007184$$

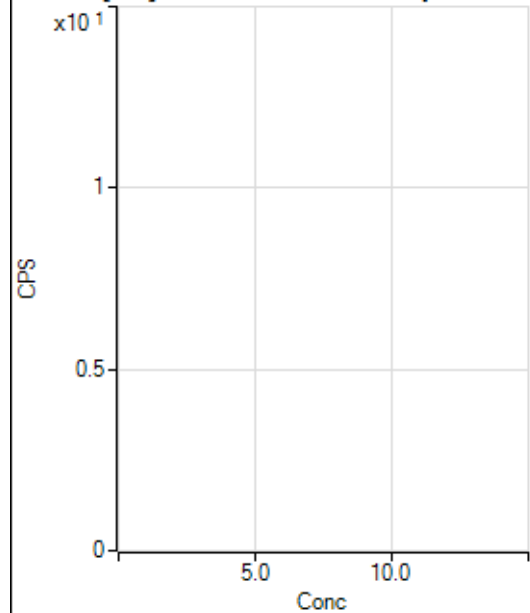
$$BEC = 0.008445$$

Weight: <None>

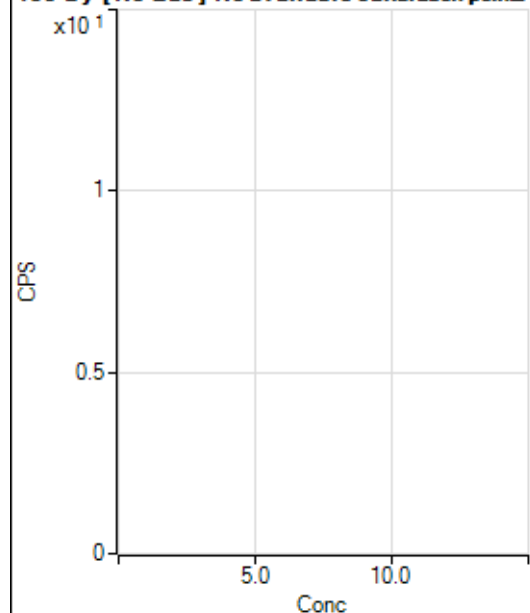
Min Conc: 0

150 Nd [No Gas] No available calibration points

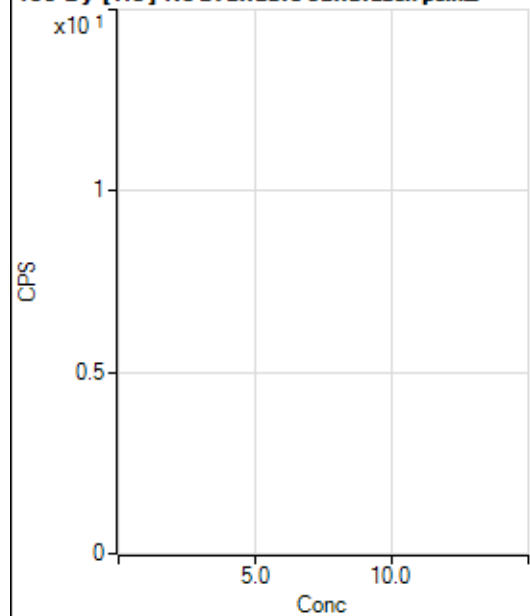
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	53.3
2	☐			11.11		P	17.3
3	☐			87.78		P	35.3
4	☐			184.45		P	7.3
5	☐			356.68		P	6.5
6	☐			721.14		P	5.1
7	☐			1390.08		P	4.2
8	☐			446.68		P	3.3

150 Nd [He] No available calibration points

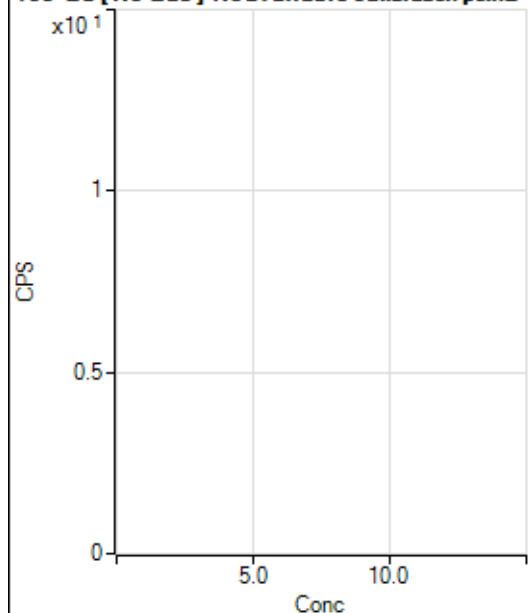
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			6.67		P	50.0
3	☐			23.33		P	24.7
4	☐			44.44		P	11.5
5	☐			90.00		P	3.7
6	☐			144.44		P	19.9
7	☐			274.45		P	7.3
8	☐			255.56		P	12.1

156 Dy [No Gas] No available calibration points

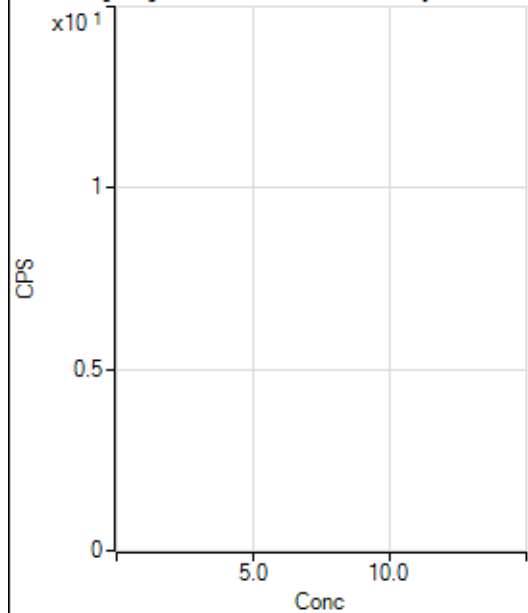
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.55		P	24.8
2	☐			24.44		P	41.7
3	☐			65.56		P	21.2
4	☐			132.23		P	7.7
5	☐			227.78		P	5.9
6	☐			396.68		P	21.5
7	☐			871.15		P	3.5
8	☐			2658.06		P	3.5

156 Dy [He] No available calibration points

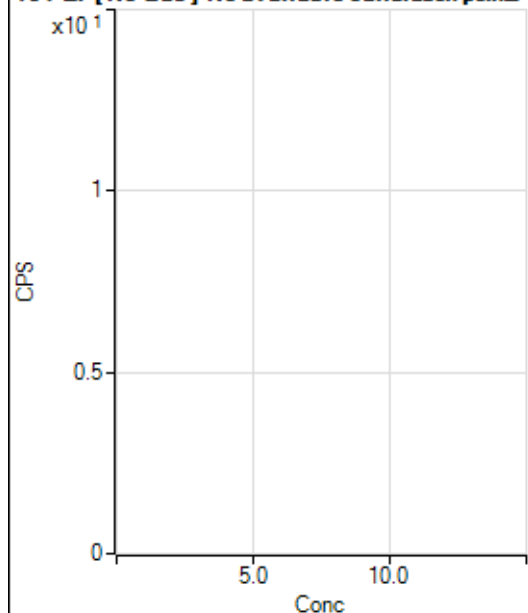
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	75.5
2	☐			13.33		P	66.2
3	☐			52.22		P	47.9
4	☐			120.00		P	7.3
5	☐			226.67		P	7.8
6	☐			455.57		P	14.7
7	☐			913.37		P	2.0
8	☐			1779.02		P	2.4

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

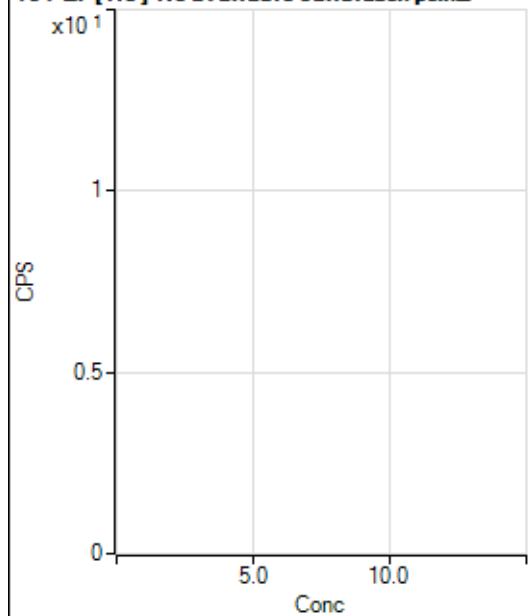
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			138.89		P	8.4
2	☐			150.00		P	11.8
3	☐			173.34		P	22.2
4	☐			233.34		P	8.0
5	☐			294.45		P	4.0
6	☐			486.68		P	10.6
7	☐			801.14		P	3.6
8	☐			2937.01		P	1.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			650.02		P	7.6
2	☐			604.46		P	6.3
3	☐			640.02		P	9.7
4	☐			695.58		P	3.6
5	☐			731.14		P	3.5
6	☐			861.15		P	9.3
7	☐			1007.83		P	5.6
8	☐			2562.48		P	4.7

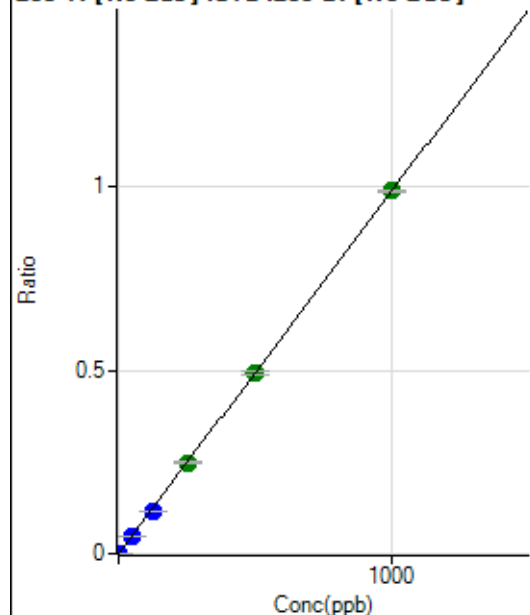
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			138.89		P	13.6
2	☐			146.67		P	33.6
3	☐			177.78		P	6.6
4	☐			152.23		P	3.3
5	☐			170.00		P	9.8
6	☐			201.12		P	13.3
7	☐			275.56		P	3.9
8	☐			483.35		P	6.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			87.78		P	25.3
2	☐			88.89		P	15.2
3	☐			106.67		P	20.5
4	☐			118.89		P	11.3
5	☐			135.56		P	12.4
6	☐			141.12		P	11.9
7	☐			182.22		P	11.2
8	☐			333.34		P	8.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	280.01	0.0000	P	12.1
2	☐	1.000	0.905	12370.17	0.0009	P	0.5
3	☐	50.000	46.398	650013.51	0.0459	P	0.6
4	☐	125.000	116.778	1631148.86	0.1154	P	1.5
5	☐	250.000	251.089	3465710.64	0.2481	A	1.0
6	☐	500.000	498.607	6921828.72	0.4926	A	1.7
7	☐	1000.000	1001.632	13491068.83	0.9895	A	0.6
8	☐			2606.96	0.0002	P	28.2

$$y = 9.8791\text{E-}004 * x + 2.0424\text{E-}005$$

$$R = 1.0000$$

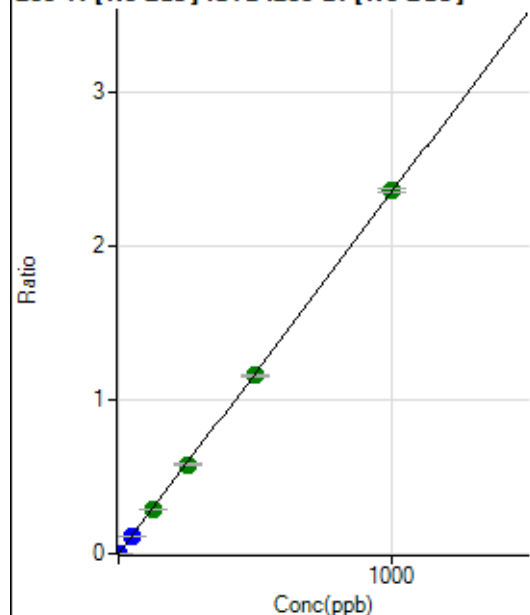
$$DL = 0.007486$$

$$BEC = 0.02067$$

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	681.13	0.0000	P	4.8
2	☐	1.000	0.898	29195.80	0.0022	P	1.0
3	☐	50.000	46.534	1549621.68	0.1093	P	1.3
4	☐	125.000	124.095	4120332.72	0.2915	A	1.4
5	☐	250.000	247.475	8119217.31	0.5812	A	2.2
6	☐	500.000	493.439	16283718.23	1.1588	A	1.1
7	☐	1000.000	1004.198	32152059.52	2.3582	A	1.2
8	☐			6451.69	0.0006	P	28.7

$$y = 0.0023 * x + 4.9663\text{E-}005$$

$$R = 1.0000$$

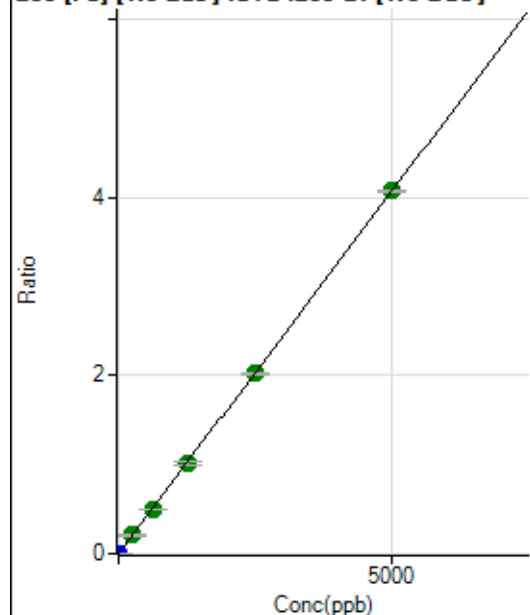
$$DL = 0.003057$$

$$BEC = 0.02115$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	760.03	0.0001	P	9.0
2	☐	1.000	0.893	10574.19	0.0008	P	3.6
3	☐	250.000	252.258	2908542.98	0.2052	A	1.4
4	☐	625.000	617.910	7104383.57	0.5026	A	1.5
5	☐	1250.000	1245.459	14149191.74	1.0129	A	2.6
6	☐	2500.000	2483.678	28383241.52	2.0199	A	1.1
7	☐	5000.000	5010.069	55549609.73	4.0744	A	0.6
8	☐			23762.16	0.0020	P	11.9

$$y = 8.1323\text{E-}004 * x + 5.5436\text{E-}005$$

$$R = 1.0000$$

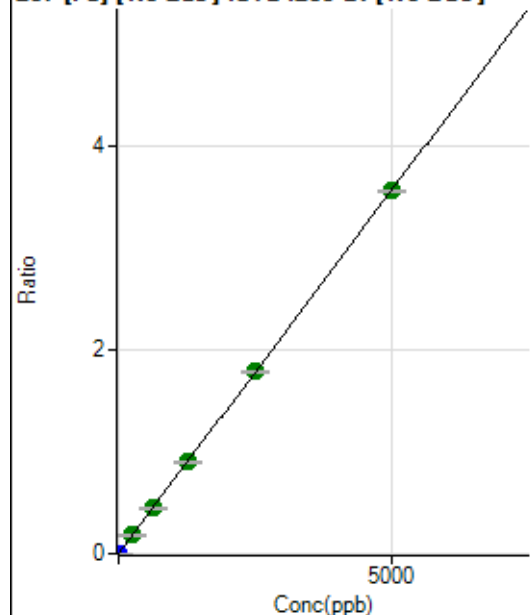
$$DL = 0.01845$$

$$BEC = 0.06817$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	667.80	0.0000	P	5.0
2	☐	1.000	0.881	9140.92	0.0007	P	0.9
3	☐	250.000	252.180	2545085.85	0.1796	A	0.7
4	☐	625.000	623.269	6272123.79	0.4437	A	2.4
5	☐	1250.000	1260.857	12538440.92	0.8975	A	1.8
6	☐	2500.000	2505.834	25064379.63	1.7837	A	1.5
7	☐	5000.000	4994.476	48469667.06	3.5551	A	0.6
8	☐			20249.78	0.0017	P	11.3

$$y = 7.1180\text{E-}004 * x + 4.8685\text{E-}005$$

$$R = 1.0000$$

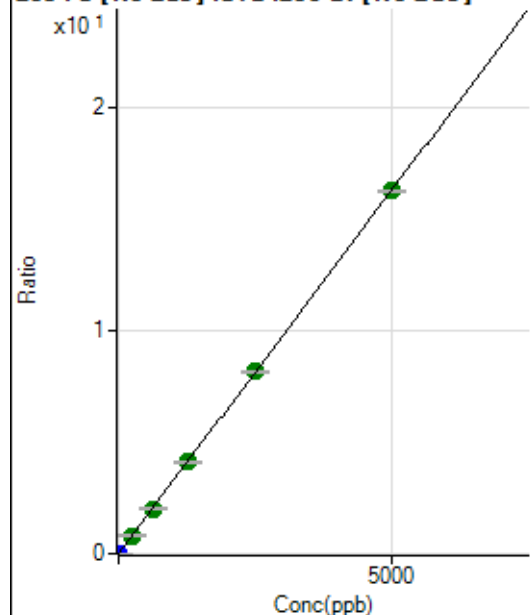
$$DL = 0.01029$$

$$BEC = 0.0684$$

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	3006.83	0.0002	P	3.3
2	☐	1.000	0.894	42308.43	0.0031	P	1.3
3	☐	250.000	251.171	11582774.64	0.8172	A	0.6
4	☐	625.000	620.580	28536594.22	2.0187	A	1.6
5	☐	1250.000	1259.224	57218764.71	4.0958	A	1.7
6	☐	2500.000	2504.471	114465600.80	8.1460	A	1.6
7	☐	5000.000	4995.952	221543179.48	16.2496	A	0.7
8	☐			94638.03	0.0082	P	11.7

$$y = 0.0033 * x + 2.1922E-004$$

$$R = 1.0000$$

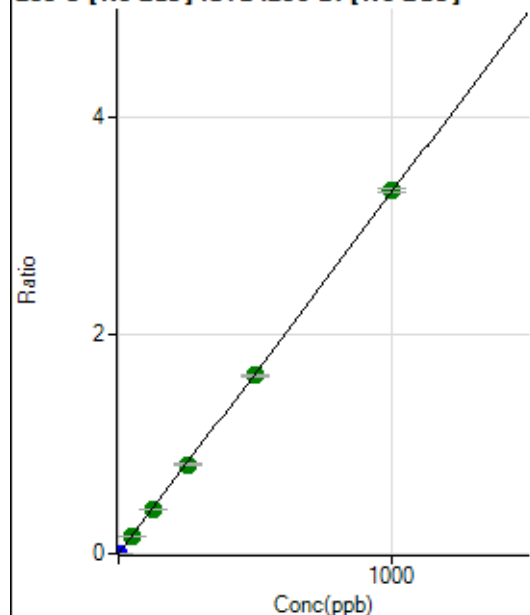
$$DL = 0.00665$$

$$BEC = 0.0674$$

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	24.71	0.0000	P	21.6
2	☐	1.000	0.894	39990.73	0.0030	P	0.7
3	☐	50.000	49.029	2298436.14	0.1622	A	1.8
4	☐	125.000	121.506	5680916.47	0.4019	A	2.3
5	☐	250.000	246.904	11407703.70	0.8166	A	1.9
6	☐	500.000	493.134	22917789.51	1.6310	A	1.9
7	☐	1000.000	1004.692	45303817.31	3.3229	A	1.2
8	☐			7653.51	0.0007	P	31.2

$$y = 0.0033 * x + 1.8034E-006$$

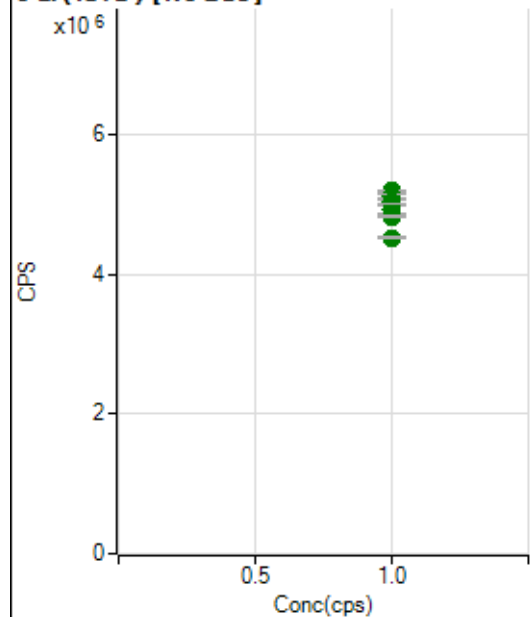
$$R = 1.0000$$

$$DL = 0.0003532$$

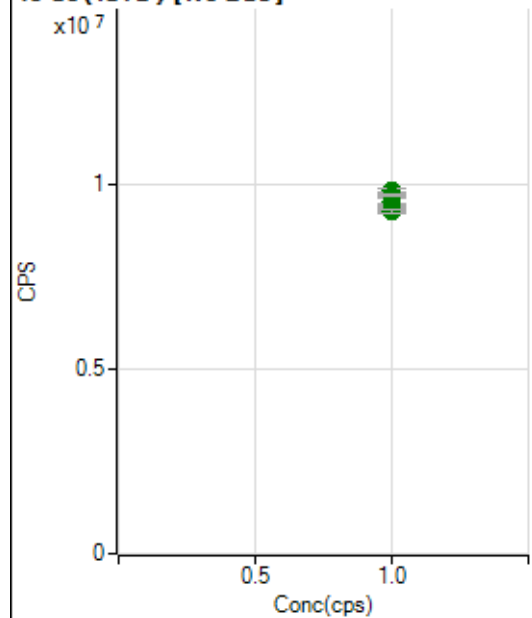
$$BEC = 0.0005453$$

Weight: <None>

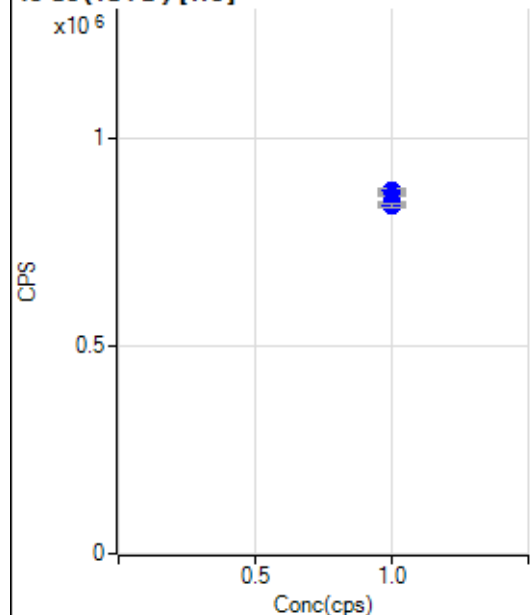
Min Conc: 0

6 Li (ISTD) [No Gas]

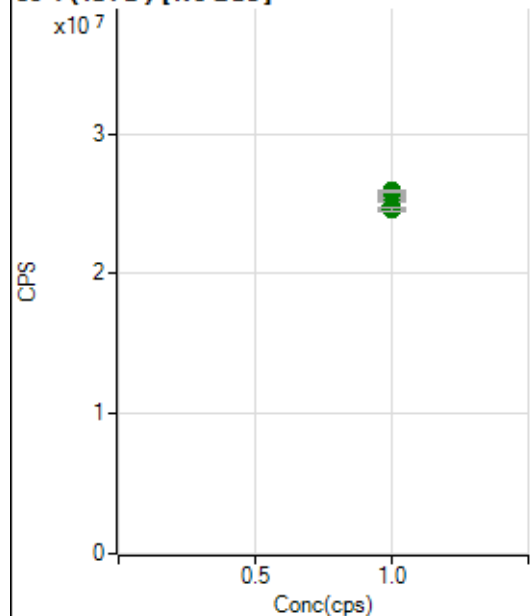
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4937646.77		A	2.0
2	☐	1.000		4932850.48		A	2.1
3	☐	1.000		5197575.58		A	0.6
4	☐	1.000		5129930.89		A	0.8
5	☐	1.000		5033397.81		A	1.6
6	☐	1.000		5017037.56		A	0.2
7	☐	1.000		4828999.75		A	0.6
8	☐	1.000		4530329.10		A	0.5

45 Sc (ISTD) [No Gas]

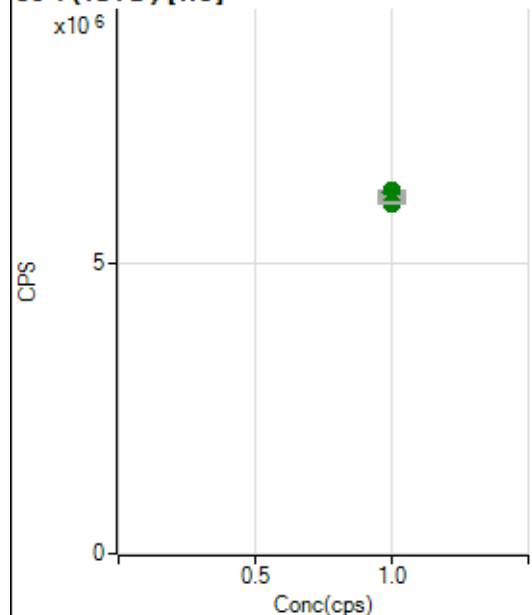
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9540805.83		A	1.9
2	☐	1.000		9393565.35		A	2.1
3	☐	1.000		9831881.24		A	1.1
4	☐	1.000		9714373.88		A	0.7
5	☐	1.000		9404692.43		A	0.8
6	☐	1.000		9438284.03		A	0.3
7	☐	1.000		9360455.07		A	0.8
8	☐	1.000		9284513.20		A	1.0

45 Sc (ISTD) [He]

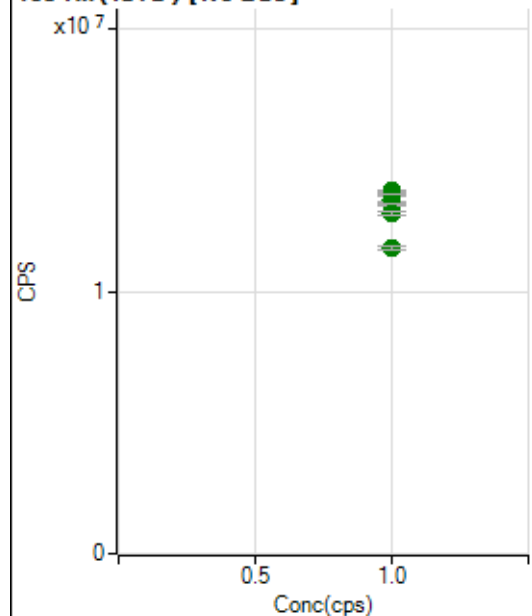
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		868813.37		P	0.2
2	☐	1.000		869938.52		P	0.5
3	☐	1.000		872124.53		P	1.3
4	☐	1.000		860451.01		P	0.2
5	☐	1.000		835929.11		P	1.0
6	☐	1.000		845641.28		P	0.1
7	☐	1.000		834850.38		P	0.4
8	☐	1.000		836375.31		P	0.7

89 Y (ISTD) [No Gas]

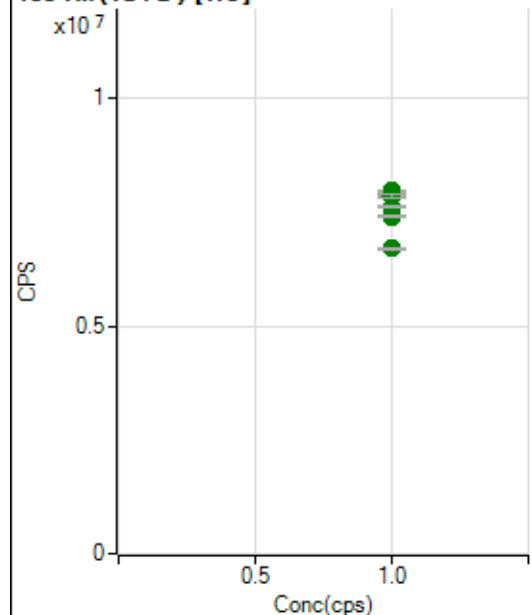
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		25423897.96		A	1.0
2	☐	1.000		24863130.46		A	2.6
3	☐	1.000		25790263.23		A	0.8
4	☐	1.000		25846124.62		A	1.0
5	☐	1.000		25492012.40		A	0.4
6	☐	1.000		25768114.34		A	0.3
7	☐	1.000		25913055.45		A	0.3
8	☐	1.000		24545747.13		A	1.1

89 Y(ISTD) [He]

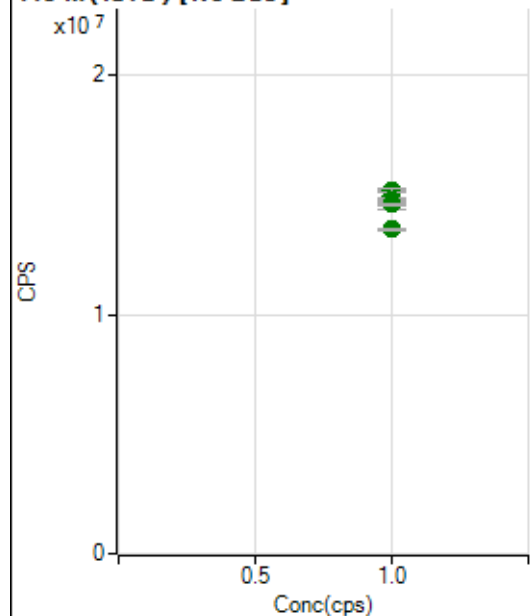
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6201226.37		A	0.7
2	☐	1.000		6246540.60		A	0.4
3	☐	1.000		6225526.99		A	0.8
4	☐	1.000		6191961.37		A	0.3
5	☐	1.000		6071505.88		A	0.7
6	☐	1.000		6173811.85		A	0.7
7	☐	1.000		6135382.62		A	0.9
8	☐	1.000		6034967.76		A	0.5

103 Rh(ISTD) [No Gas]

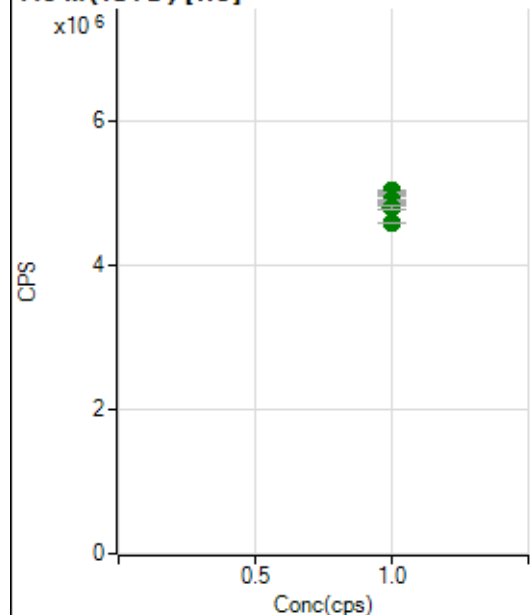
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13713130.77		A	1.3
2	☐	1.000		13516433.97		A	1.8
3	☐	1.000		13843308.82		A	0.1
4	☐	1.000		13720534.80		A	0.1
5	☐	1.000		13299186.05		A	0.2
6	☐	1.000		13317666.75		A	0.4
7	☐	1.000		12972018.14		A	1.0
8	☐	1.000		11639165.80		A	1.2

103 Rh (ISTD) [He]

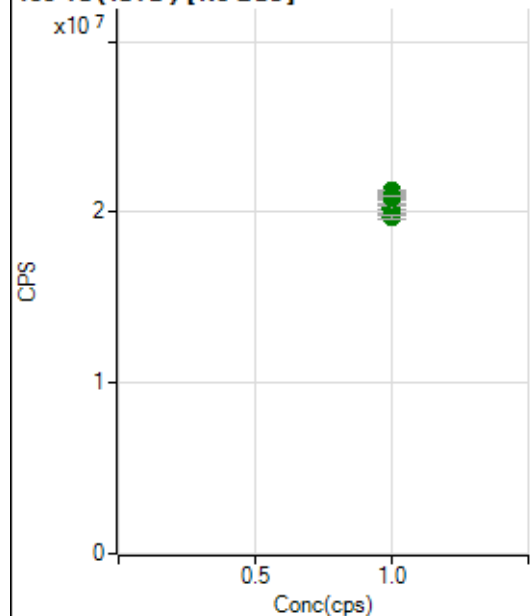
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7858311.76		A	0.3
2	☐	1.000		7970003.28		A	0.3
3	☐	1.000		7917532.10		A	0.9
4	☐	1.000		7866125.16		A	0.9
5	☐	1.000		7607827.66		A	0.5
6	☐	1.000		7622471.90		A	0.5
7	☐	1.000		7404492.87		A	0.5
8	☐	1.000		6698055.11		A	0.5

115 In (ISTD) [No Gas]

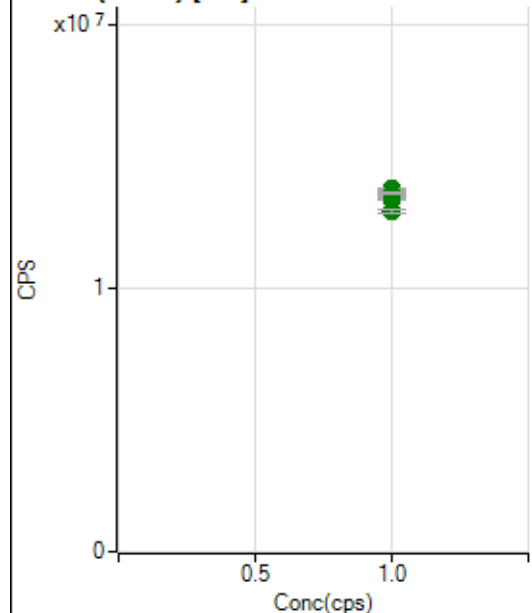
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14988852.04		A	1.5
2	☐	1.000		14658012.96		A	3.0
3	☐	1.000		15143129.66		A	0.5
4	☐	1.000		15177485.24		A	1.1
5	☐	1.000		14775669.53		A	1.1
6	☐	1.000		14832025.49		A	0.4
7	☐	1.000		14605470.44		A	0.8
8	☐	1.000		13555247.71		A	0.7

115 In (ISTD) [He]

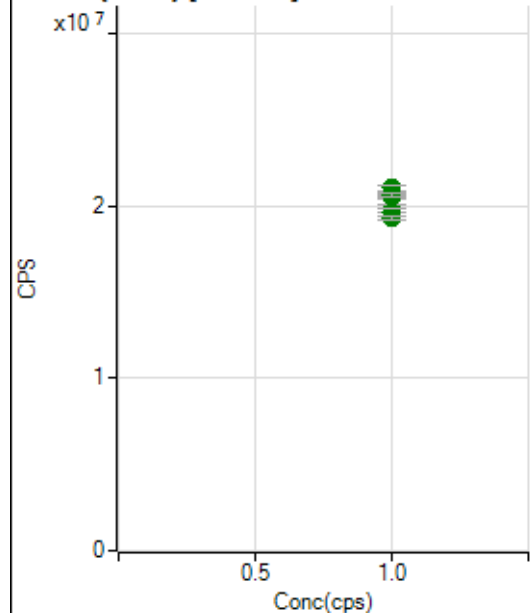
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4971887.84		A	0.8
2	☐	1.000		5035527.85		A	0.8
3	☐	1.000		5015623.92		A	1.0
4	☐	1.000		5008461.62		A	0.3
5	☐	1.000		4866531.61		A	0.6
6	☐	1.000		4904800.96		A	0.3
7	☐	1.000		4799048.61		A	1.0
8	☐	1.000		4595053.42		A	0.4

159 Tb (ISTD) [No Gas]

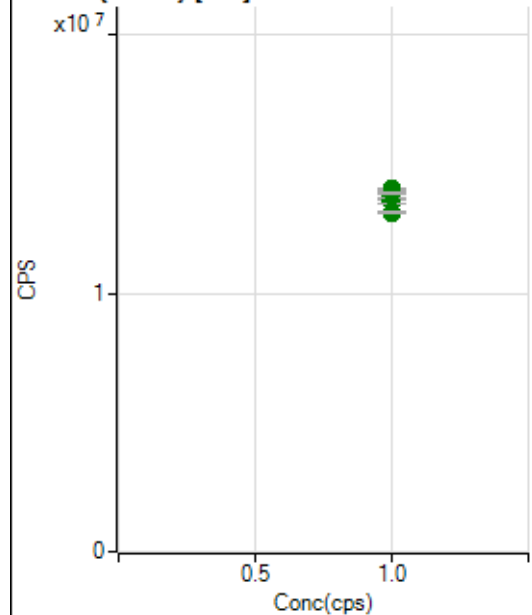
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20294963.72		A	1.6
2	☐	1.000		20128273.73		A	2.0
3	☐	1.000		20792848.30		A	1.0
4	☐	1.000		21036805.24		A	0.7
5	☐	1.000		20879197.47		A	0.7
6	☐	1.000		21243421.07		A	0.4
7	☐	1.000		20965940.94		A	0.2
8	☐	1.000		19675785.96		A	1.2

159 Tb (ISTD) [He]

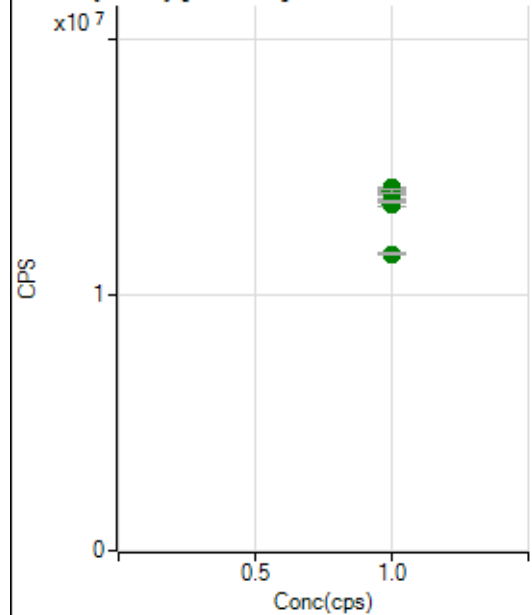
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13406934.52		A	0.1
2	☐	1.000		13524734.94		A	1.1
3	☐	1.000		13656186.32		A	1.1
4	☐	1.000		13790260.49		A	0.8
5	☐	1.000		13603009.94		A	1.3
6	☐	1.000		13790930.21		A	0.2
7	☐	1.000		13619239.66		A	0.8
8	☐	1.000		12961487.45		A	1.3

165 Ho (ISTD) [No Gas]

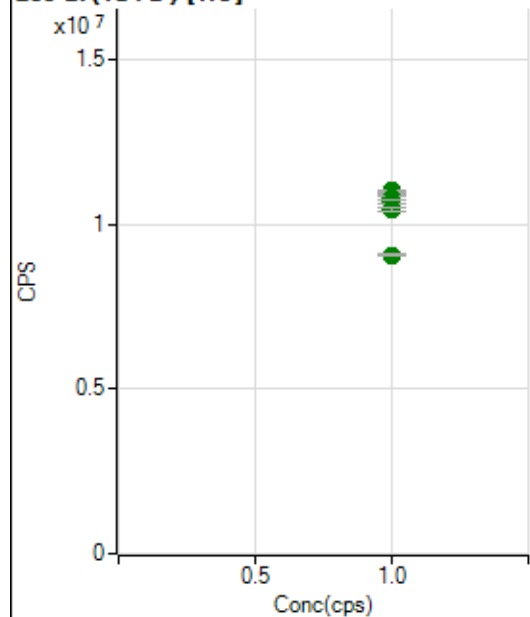
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19871493.45		A	1.8
2	☐	1.000		19646391.24		A	2.7
3	☐	1.000		20521776.92		A	0.3
4	☐	1.000		20749706.50		A	1.5
5	☐	1.000		20755616.36		A	0.8
6	☐	1.000		21070085.80		A	1.7
7	☐	1.000		20660854.14		A	1.2
8	☐	1.000		19322631.52		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		13531158.55		A	0.8
2	☐	1.000		13594740.21		A	1.4
3	☐	1.000		13892434.24		A	0.8
4	☐	1.000		14008108.54		A	0.6
5	☐	1.000		13753884.38		A	0.9
6	☐	1.000		14043076.60		A	0.7
7	☐	1.000		13907589.38		A	0.5
8	☐	1.000		13126006.33		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		13717945.21		A	1.0
2	☐	1.000		13524012.02		A	1.1
3	☐	1.000		14174900.48		A	0.6
4	☐	1.000		14136675.76		A	0.3
5	☐	1.000		13971587.99		A	1.2
6	☐	1.000		14052886.46		A	0.8
7	☐	1.000		13633725.91		A	0.2
8	☐	1.000		11587032.33		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10866867.75		A	0.5
2	☐	1.000		10912348.79		A	1.1
3	☐	1.000		10976089.14		A	0.6
4	☐	1.000		11021528.59		A	0.6
5	☐	1.000		10821941.51		A	0.9
6	☐	1.000		10679899.56		A	1.2
7	☐	1.000		10471280.26		A	1.2
8	☐	1.000		9070757.36		A	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7080223MS.b
Acq. Date-Time 2023-08-02 08:27:15
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		8893	88927.37			0.507	5.000
24		419394	4193939.86			0.479	5.000
25		56989	569890.11			0.111	5.000
26		65068	650683.29			0.186	5.000
59		68428	684282.63			0.270	5.000
113		7856	78556.93			0.613	5.000
115		100750	1007502.02			0.720	5.000
206		26003	260034.58			0.712	5.000
207		24060	240599.28			0.907	5.000
208		56007	560068.14			0.491	5.000
220		1	13.50			23.277	

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

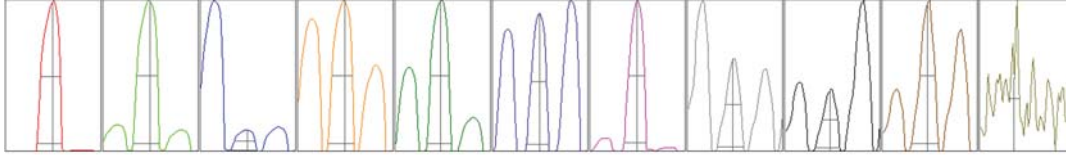
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8912	8893	8952	8829	8878
24	418278	418797	421984	420889	417022
25	57048	56887	56973	57026	57011
26	65052	65098	65254	64930	65008
59	68747	68313	68291	68415	68375
113	7905	7889	7855	7850	7780
115	101778	100621	101152	100213	99986
206	26214	26094	26083	25864	25762
207	24409	24076	23846	24059	23910
208	56157	56420	55804	55797	55856

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	2

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15092.85	9.00	8.90 - 9.10	
24	666113.86	24.00	23.90 - 24.10	
25	91607.74	25.00	24.90 - 25.10	
26	104802.26	26.00	25.90 - 26.10	
59	121377.09	58.95	58.90 - 59.10	
113	16337.77	113.00	112.90 - 113.10	
115	203984.48	115.00	114.90 - 115.10	
206	51837.00	205.95	205.90 - 206.10	
207	46088.54	206.95	206.90 - 207.10	
208	112404.49	207.95	207.90 - 208.10	
220	1.50	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.784	0.900	
24	0.67	0.831	0.900	
25	0.65	0.818	0.900	
26	0.66	0.826	0.900	
59	0.59	0.775	0.900	
113	0.49	0.712	0.900	
115	0.50	0.717	0.900	
206	0.49	0.827	0.900	
207	0.50	0.781	0.900	
208	0.48	0.844	0.900	
220	0.32			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	15.6 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 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	125	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2284 V	Pulse HV	1599 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		22196	221961.84			0.526	
89		134049	1340493.89			1.254	
205		30921	309205.95			0.368	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	22324	22217	22241	22007	22193
89	135643	131369	135196	134378	133661
205	30936	30869	30905	31100	30793

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	9.8 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-145.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	125	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2284 V	Pulse HV	1599 V
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