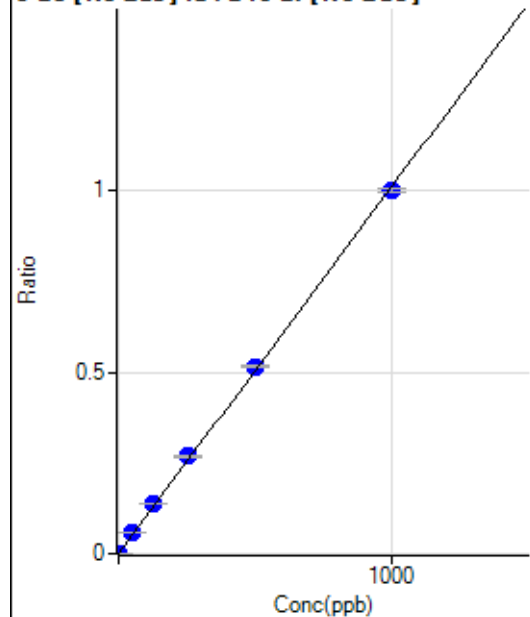


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7020425MS-4.b\
 Analysis File: P7020425MS-4.batch.bin
 DA Date-Time: 2025-02-06 01:37:54
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-02-04 17:25:15
2	005CALS.d	S02	2025-02-04 17:28:33
3	006CALS.d	S03	2025-02-04 17:31:52
4	007CALS.d	S04	2025-02-04 17:34:57
5	008CALS.d	S05	2025-02-04 17:37:54
6	009CALS.d	S06	2025-02-04 17:40:42
7	010CALS.d	S07	2025-02-04 17:43:28
8	011CALS.d	S08	2025-02-04 17:46:12

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64.44	0.0001	P	36.9
2	☐	1.000	1.153	1088.94	0.0012	P	2.0
3	☐	50.000	55.632	49706.91	0.0562	P	1.7
4	☐	125.000	136.051	122443.88	0.1374	P	0.4
5	☐	250.000	265.441	239721.38	0.2679	P	1.0
6	☐	500.000	510.012	459175.17	0.5147	P	0.9
7	☐	1000.000	989.471	882117.10	0.9985	P	1.0
8	☐			248.89	0.0003	P	23.4

$$y = 0.0010 * x + 7.3478E-005$$

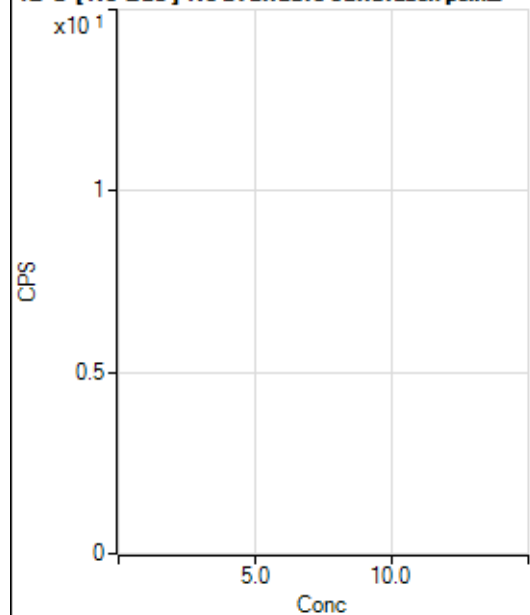
$$R = 0.9998$$

$$DL = 0.08064$$

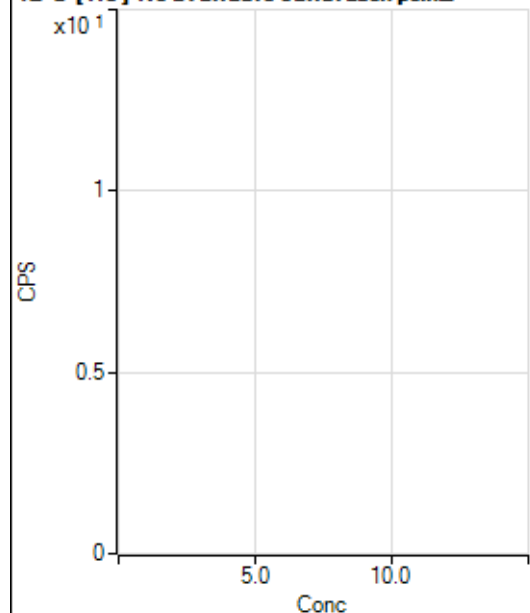
$$BEC = 0.07282$$

Weight: <None>

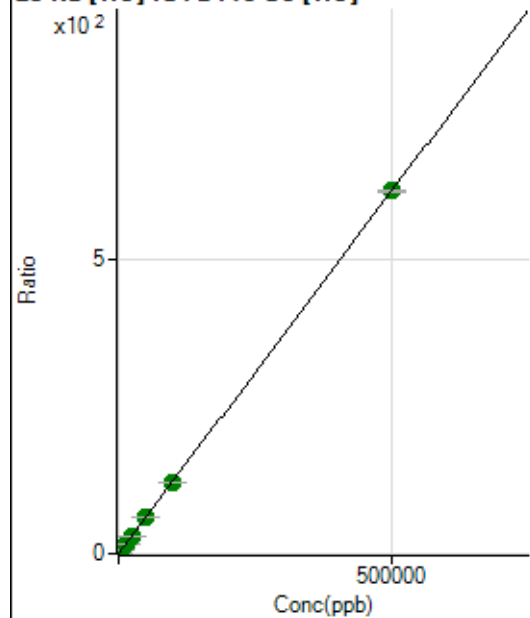
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13787.36	0.0309	P	1.2
2	☐	500.000	520.345	298519.77	0.6719	P	0.8
3	☐	5000.000	5101.122	2623725.41	6.3150	A	7.9
4	☐	12500.000	12311.906	6358853.93	15.1979	A	0.4
5	☐	25000.000	24022.521	12350060.65	29.6242	A	5.2
6	☐	50000.000	49752.279	24085527.14	61.3206	A	1.0
7	☐	100000.00	98544.396	47519513.18	121.4275	A	0.6
8	☐	500000.00	500368.43	245581300.7	616.4333	A	0.3

$$y = 0.0012 * x + 0.0309$$

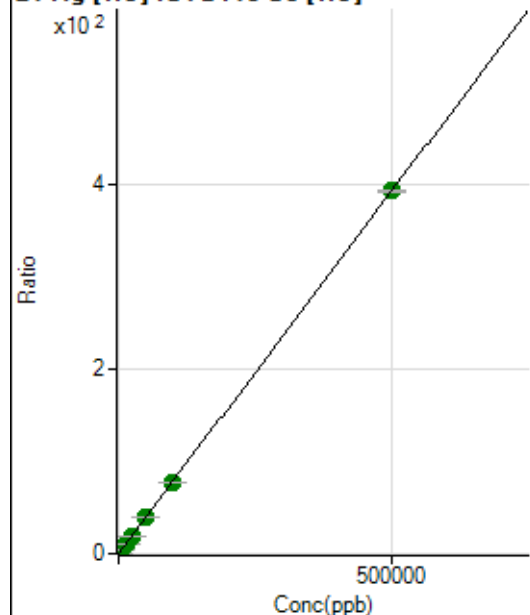
$$R = 1.0000$$

$$DL = 0.8811$$

$$BEC = 25.09$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	696.69	0.0016	P	5.9
2	☐	500.000	518.492	181329.01	0.4082	P	1.4
3	☐	5000.000	5153.346	1679679.93	4.0427	A	7.9
4	☐	12500.000	12247.398	4019077.96	9.6058	A	0.4
5	☐	25000.000	23803.792	7780407.52	18.6681	A	6.0
6	☐	50000.000	49614.156	15282904.91	38.9082	A	0.9
7	☐	100000.00	97548.839	29936506.78	76.4978	A	0.8
8	☐	500000.00	500593.39	156391155.4	392.5588	A	0.2

$$y = 7.8418\text{E-}004 * x + 0.0016$$

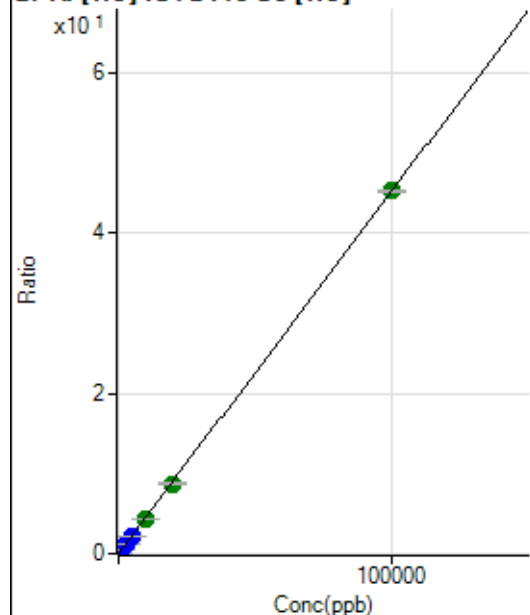
$$R = 1.0000$$

$$DL = 0.3553$$

$$BEC = 1.992$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	217.78	0.0005	P	5.6
2	☐	20.000	20.282	4286.19	0.0096	P	2.6
3	☐	1000.000	1013.772	190367.68	0.4583	P	8.4
4	☐	2500.000	2413.967	456326.01	1.0906	P	0.1
5	☐	5000.000	4693.717	883790.39	2.1202	P	5.5
6	☐	10000.000	9779.631	1734939.25	4.4170	A	0.5
7	☐	20000.000	19356.453	3420991.30	8.7419	A	1.4
8	☐	100000.00	100168.07	18021883.90	45.2366	A	0.4

$$y = 4.5160\text{E-}004 * x + 4.8815\text{E-}004$$

$$R = 1.0000$$

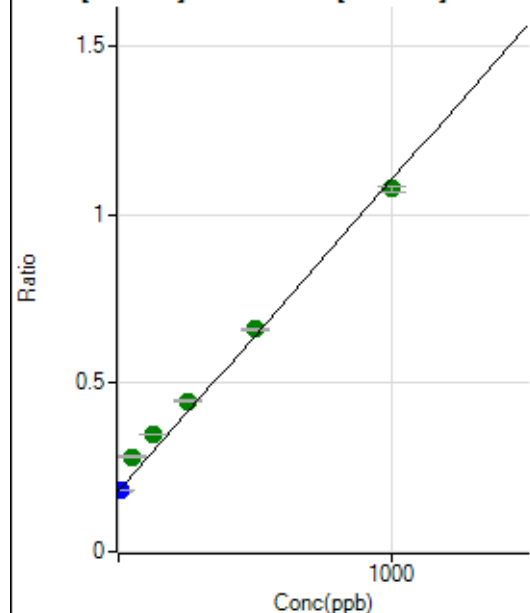
$$DL = 0.1819$$

$$BEC = 1.081$$

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	817274.45	0.1800	P	0.4
2	☐	10.000	4.366	836970.16	0.1840	P	0.7
3	☐	50.000	110.052	1261765.65	0.2816	A	2.0
4	☐	125.000	181.203	1475545.50	0.3473	A	0.8
5	☐	250.000	289.848	1821284.49	0.4476	A	0.4
6	☐	500.000	519.279	2577137.77	0.6594	A	0.9
7	☐	1000.000	970.427	4164694.52	1.0760	A	1.7
8	☐			620633.68	0.1611	P	1.5

$$y = 9.2336\text{E-}004 * x + 0.1800$$

$$R = 0.9966$$

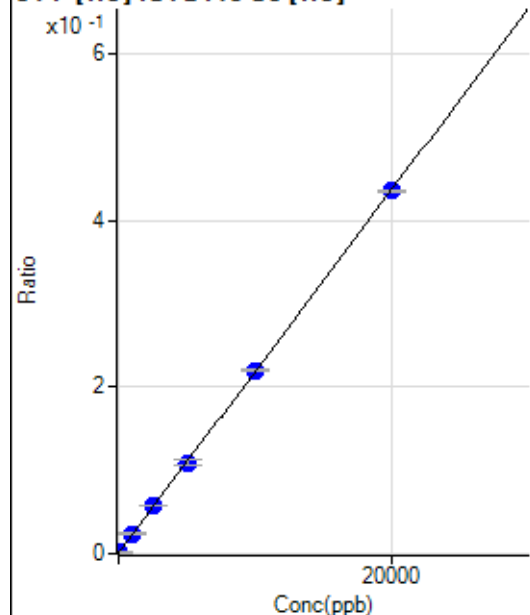
$$DL = 2.385$$

$$BEC = 194.9$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-17.668	200.00	0.0004	P	5.4
2	☐	0.000	17.668	541.13	0.0012	P	11.3
3	☐	1000.000	1069.070	10014.47	0.0241	P	7.9
4	☐	2500.000	2582.512	23868.68	0.0570	P	0.8
5	☐	5000.000	4987.877	45609.97	0.1094	P	5.2
6	☐	10000.000	10077.687	86490.02	0.2202	P	0.2
7	☐	20000.000	19950.420	170275.82	0.4351	P	0.3
8	☐			180.00	0.0005	P	5.0

$$y = 2.1767\text{E-}005 * x + 8.3295\text{E-}004$$

$$R = 1.0000$$

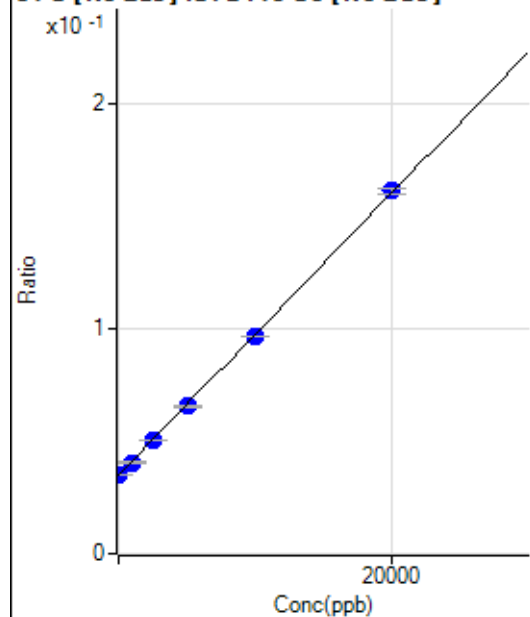
$$DL = 11.18$$

$$BEC = 38.27$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-33.661	158211.35	0.0348	P	0.6
2	☐	0.000	33.661	160397.15	0.0353	P	0.9
3	☐	1000.000	877.879	181779.22	0.0406	P	1.1
4	☐	2500.000	2427.677	213685.10	0.0503	P	0.4
5	☐	5000.000	4865.142	266957.16	0.0656	P	0.4
6	☐	10000.000	9813.079	377854.43	0.0967	P	0.6
7	☐	20000.000	20142.321	625291.63	0.1616	P	1.7
8	☐			122432.20	0.0318	P	0.7

$$y = 6.2812\text{E-}006 * x + 0.0350$$

R = 0.9999

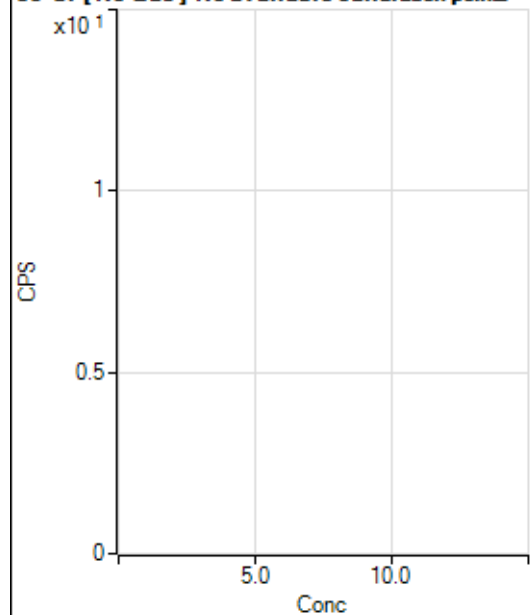
DL = 119.6

BEC = 5580

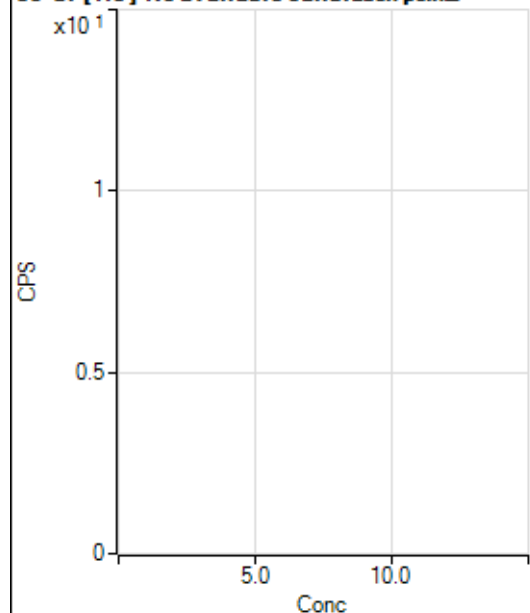
Weight: <None>

Min Conc: 0

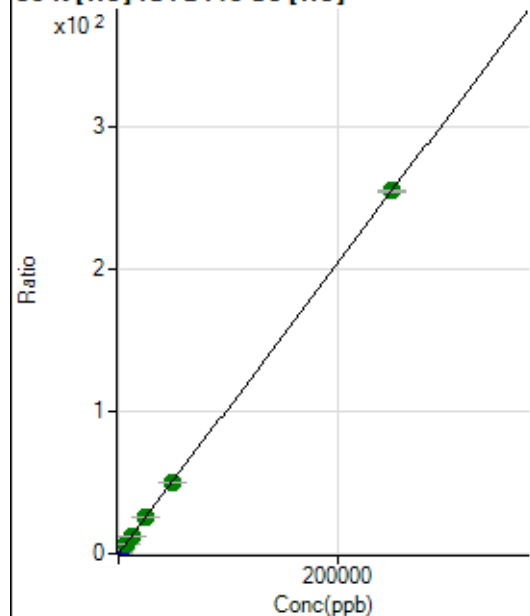
35 Cl [No Gas] No available calibration points



	R _j 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	52871.35	0.1185	P	1.1
2	☐	500.000	548.433	300952.19	0.6774	P	0.8
3	☐	2500.000	2718.516	1200225.28	2.8887	P	7.9
4	☐	6250.000	6270.880	2723190.65	6.5086	A	1.1
5	☐	12500.000	11920.552	5112816.48	12.2657	A	5.6
6	☐	25000.000	24585.440	9887051.80	25.1713	A	0.7
7	☐	50000.000	48819.846	19514848.60	49.8664	A	0.9
8	☐	250000.00	250303.65	101661569.6	255.1803	A	0.2

$$y = 0.0010 * x + 0.1185$$

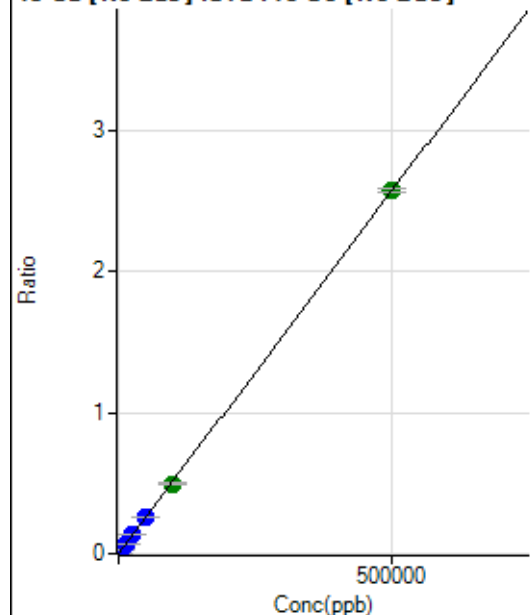
$$R = 1.0000$$

$$DL = 3.908$$

$$BEC = 116.3$$

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	305.56	0.0001	P	5.5
2	☐	500.000	548.100	13120.20	0.0029	P	0.4
3	☐	5000.000	5095.326	117656.86	0.0263	P	0.8
4	☐	12500.000	12808.201	279914.56	0.0659	P	1.3
5	☐	25000.000	25554.593	534640.05	0.1314	P	0.6
6	☐	50000.000	50445.326	1013402.31	0.2593	P	1.0
7	☐	100000.00	96546.262	1920468.36	0.4962	A	2.0
8	☐	500000.00	500609.77	9913660.62	2.5728	A	1.2

$$y = 5.1392\text{E-}006 * x + 6.7269\text{E-}005$$

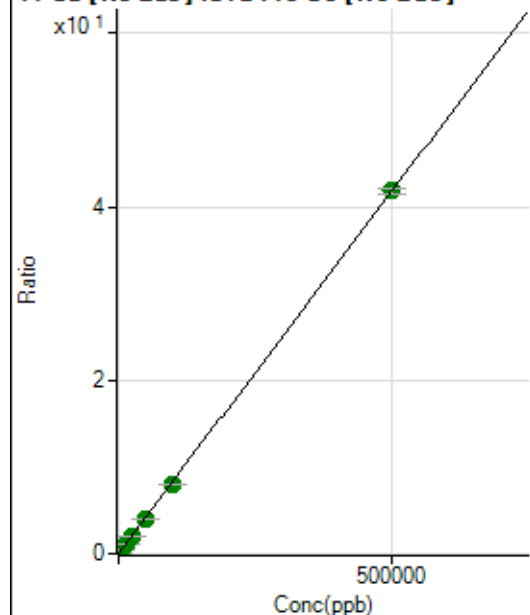
$$R = 1.0000$$

$$DL = 2.161$$

$$BEC = 13.09$$

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	6542.58	0.0014	P	3.2
2	☐	500.000	547.609	214518.05	0.0472	P	0.8
3	☐	5000.000	4864.740	1826317.61	0.4076	A	2.0
4	☐	12500.000	12199.349	4332308.23	1.0199	A	1.8
5	☐	25000.000	24373.762	8285473.97	2.0362	A	0.8
6	☐	50000.000	48313.319	15768072.82	4.0348	A	0.3
7	☐	100000.00	95846.800	30972593.15	8.0030	A	2.0
8	☐	500000.00	501039.44	161177210.9	41.8298	A	1.5

$$y = 8.3483\text{E-}005 * x + 0.0014$$

$$R = 1.0000$$

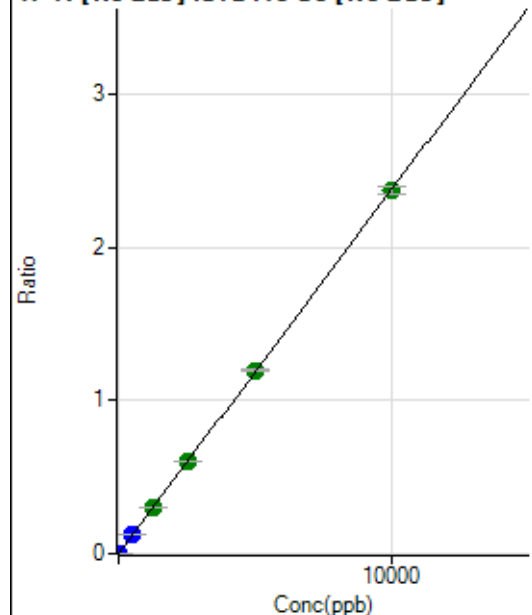
$$DL = 1.667$$

$$BEC = 17.26$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.11	0.0000	P	16.8
2	☐	5.000	5.591	6094.61	0.0013	P	0.8
3	☐	500.000	506.923	539879.63	0.1205	P	1.4
4	☐	1250.000	1268.932	1281087.01	0.3016	A	1.3
5	☐	2500.000	2534.626	2450804.22	0.6023	A	0.6
6	☐	5000.000	5037.776	4678434.10	1.1972	A	0.9
7	☐	10000.000	9969.742	9168759.58	2.3692	A	2.1
8	☐			640.02	0.0002	P	14.9

$$y = 2.3763\text{E-}004 * x + 1.1259\text{E-}005$$

$$R = 1.0000$$

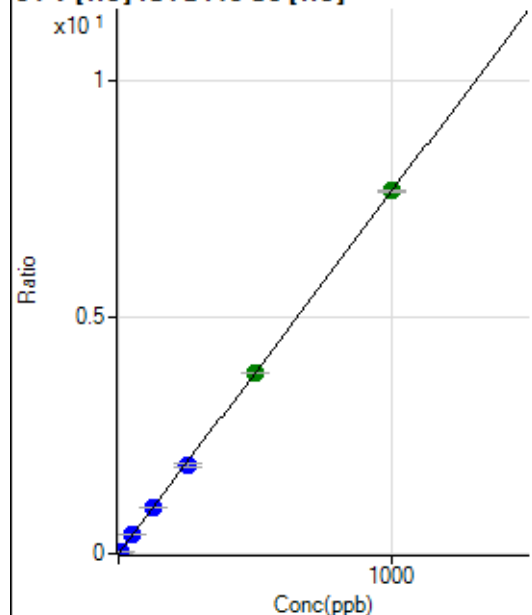
$$DL = 0.02391$$

$$BEC = 0.04738$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.55	0.0000	P	87.0
2	☐	5.000	5.534	18818.49	0.0424	P	1.0
3	☐	50.000	52.578	167066.05	0.4021	P	8.1
4	☐	125.000	125.688	402199.20	0.9613	P	0.5
5	☐	250.000	242.867	774334.61	1.8574	P	5.3
6	☐	500.000	499.873	1501625.60	3.8230	A	0.3
7	☐	1000.000	1001.629	2997926.14	7.6603	A	0.8
8	☐			838.92	0.0021	P	3.0

$$y = 0.0076 * x + 3.4880\text{E-}005$$

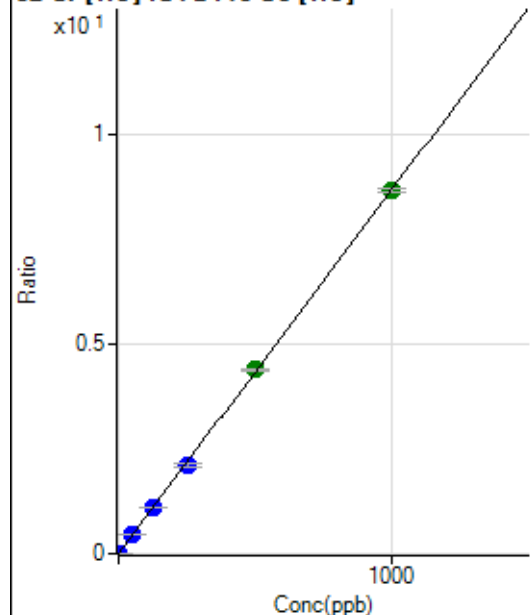
$$R = 1.0000$$

$$DL = 0.0119$$

$$BEC = 0.004561$$

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	786.70	0.0018	P	6.5
2	☐	2.000	2.213	9290.70	0.0209	P	1.2
3	☐	50.000	52.958	191089.67	0.4599	P	7.9
4	☐	125.000	126.326	458025.68	1.0947	P	0.4
5	☐	250.000	243.760	879866.90	2.1107	P	5.4
6	☐	500.000	506.669	1722474.63	4.3853	A	1.2
7	☐	1000.000	997.912	3379520.61	8.6354	A	0.9
8	☐			8646.19	0.0217	P	2.9

$$y = 0.0087 * x + 0.0018$$

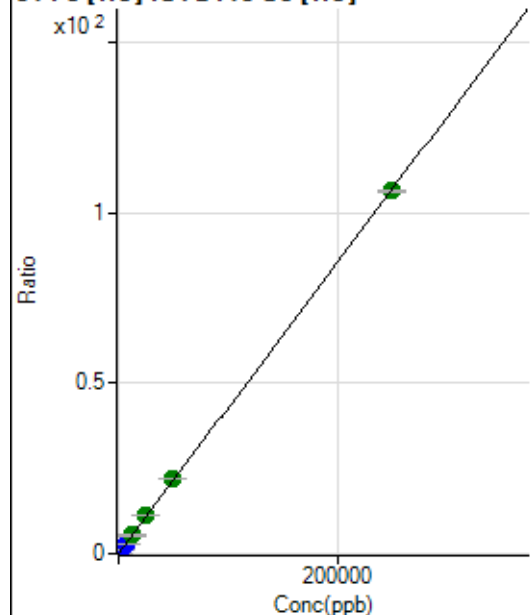
$$R = 0.9999$$

$$DL = 0.03965$$

$$BEC = 0.2039$$

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	2233.52	0.0050	P	4.0
2	☐	50.000	59.065	13404.92	0.0302	P	2.1
3	☐	2500.000	2820.956	501394.62	1.2069	P	8.0
4	☐	6250.000	6694.698	1195489.11	2.8573	P	0.1
5	☐	12500.000	12727.218	2262198.44	5.4274	A	5.8
6	☐	25000.000	26388.967	4418118.90	11.2480	A	0.6
7	☐	50000.000	51652.084	8614092.37	22.0113	A	0.1
8	☐	250000.00	249504.99	42351493.54	106.3064	A	0.2

$$y = 4.2605E-004 * x + 0.0050$$

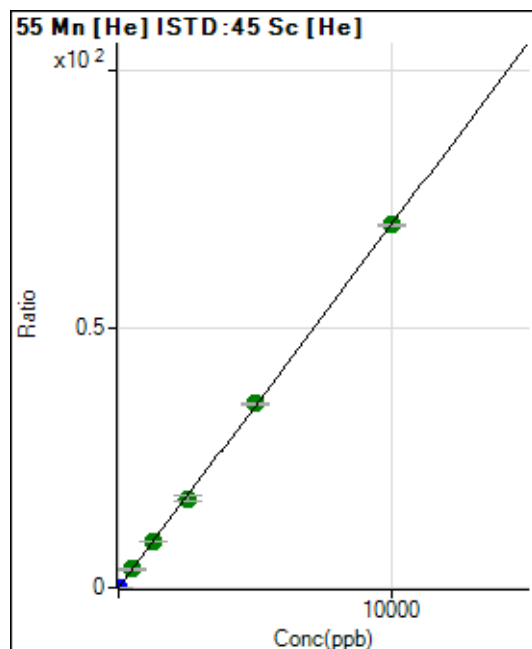
$$R = 1.0000$$

$$DL = 1.408$$

$$BEC = 11.76$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	211.11	0.0005	P	12.5
2	☐	1.000	1.091	3613.80	0.0081	P	2.6
3	☐	500.000	523.380	1527150.29	3.6765	A	8.4
4	☐	1250.000	1246.171	3662348.21	8.7532	A	0.4
5	☐	2500.000	2444.891	7156771.08	17.1726	A	6.3
6	☐	5000.000	5057.273	13952143.96	35.5211	A	0.6
7	☐	10000.000	9984.451	27443749.87	70.1279	A	0.8
8	☐			14158.97	0.0355	P	2.6

$$y = 0.0070 * x + 4.7354E-004$$

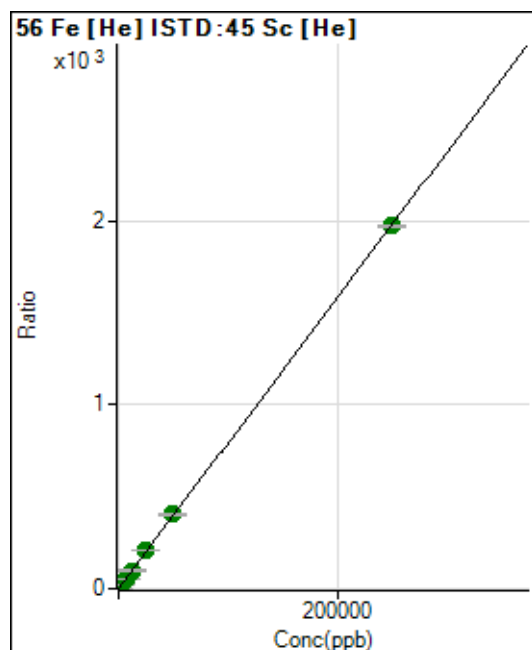
$$R = 1.0000$$

$$DL = 0.02526$$

$$BEC = 0.06742$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15598.16	0.0350	P	2.1
2	☐	50.000	57.183	216409.43	0.4871	P	0.6
3	☐	2500.000	2704.641	8899807.44	21.4197	A	7.8
4	☐	6250.000	6427.357	21277534.40	50.8540	A	0.7
5	☐	12500.000	12565.454	41423647.44	99.3859	A	5.9
6	☐	25000.000	25898.635	80445972.69	204.8070	A	0.3
7	☐	50000.000	51208.948	158460587.6	404.9273	A	1.2
8	☐	250000.00	249658.59	786424850.5	1,974.003	A	0.4

$$y = 0.0079 * x + 0.0350$$

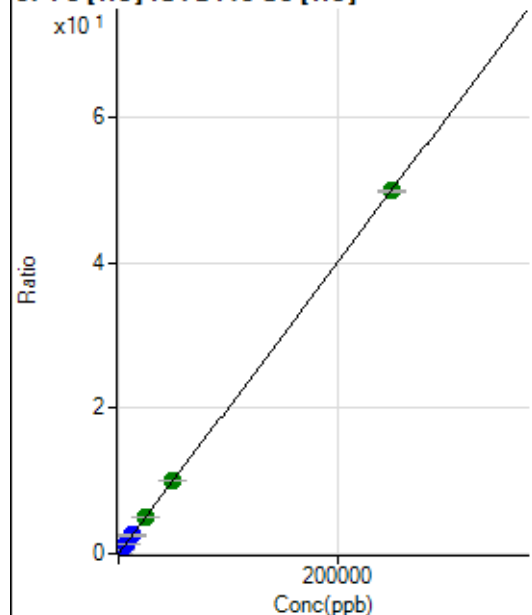
$$R = 1.0000$$

$$DL = 0.2851$$

$$BEC = 4.423$$

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	1300.07	0.0029	P	4.5
2	☐	50.000	58.596	6498.13	0.0146	P	1.5
3	☐	2500.000	2734.066	228215.41	0.5493	P	8.0
4	☐	6250.000	6520.716	546470.83	1.3061	P	0.4
5	☐	12500.000	12654.320	1055512.60	2.5319	P	5.2
6	☐	25000.000	25619.181	2012275.70	5.1229	A	1.1
7	☐	50000.000	50634.659	3961308.80	10.1223	A	1.0
8	☐	250000.00	249794.32	19889357.90	49.9247	A	0.7

$$y = 1.9985E-004 * x + 0.0029$$

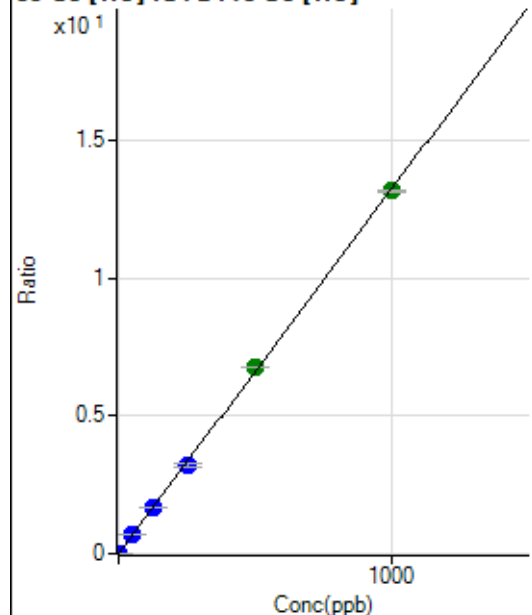
$$R = 1.0000$$

$$DL = 1.967$$

$$BEC = 14.58$$

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	122.22	0.0003	P	8.9
2	☐	1.000	1.164	6962.79	0.0157	P	3.7
3	☐	50.000	53.112	291973.84	0.7027	P	7.9
4	☐	125.000	126.512	700214.47	1.6735	P	0.6
5	☐	250.000	243.385	1341830.80	3.2193	P	5.8
6	☐	500.000	512.006	2660030.08	6.7722	A	0.4
7	☐	1000.000	995.306	5151814.02	13.1644	A	0.5
8	☐			14007.71	0.0352	P	1.6

$$y = 0.0132 * x + 2.7393E-004$$

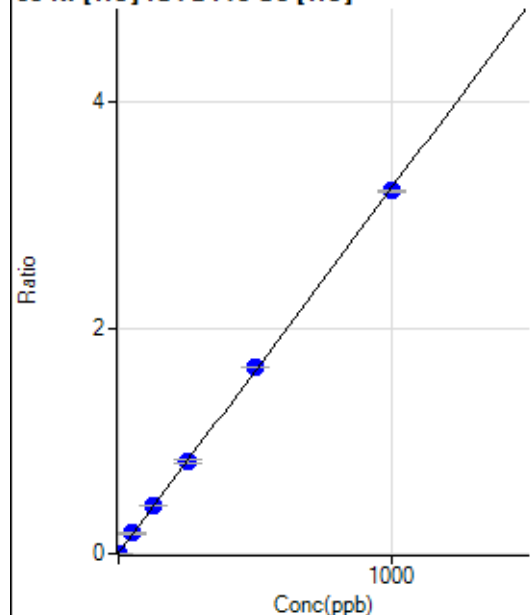
$$R = 0.9999$$

$$DL = 0.005546$$

$$BEC = 0.02071$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1595.66	0.0036	P	4.4
2	☐	1.000	1.173	3275.95	0.0074	P	3.1
3	☐	50.000	55.460	76071.55	0.1830	P	7.4
4	☐	125.000	131.162	179086.16	0.4280	P	0.3
5	☐	250.000	252.407	341974.45	0.8204	P	5.5
6	☐	500.000	511.540	651608.86	1.6589	P	0.2
7	☐	1000.000	992.585	1258416.74	3.2156	P	0.3
8	☐			6508.13	0.0163	P	1.2

$$y = 0.0032 * x + 0.0036$$

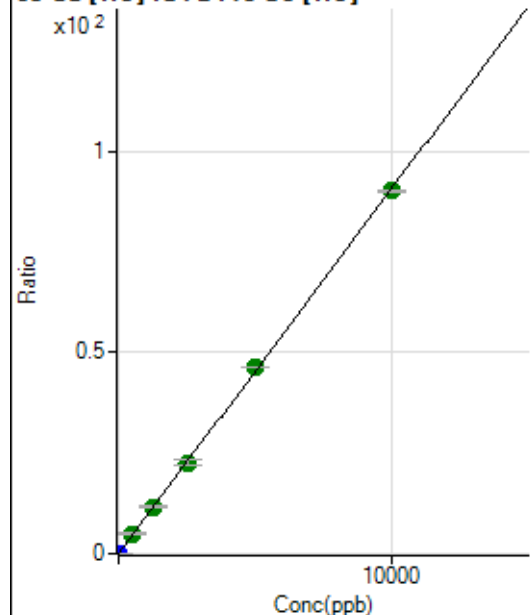
$$R = 0.9999$$

$$DL = 0.145$$

$$BEC = 1.106$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1456.75	0.0033	P	5.1
2	☐	2.000	2.189	10273.59	0.0231	P	1.7
3	☐	500.000	546.147	2060674.33	4.9573	A	6.9
4	☐	1250.000	1287.912	4889336.94	11.6857	A	1.0
5	☐	2500.000	2491.729	9423572.71	22.6053	A	5.3
6	☐	5000.000	5100.105	18172563.76	46.2654	A	0.3
7	☐	10000.000	9944.969	35304315.58	90.2123	A	0.2
8	☐			5461.04	0.0137	P	3.4

$$y = 0.0091 * x + 0.0033$$

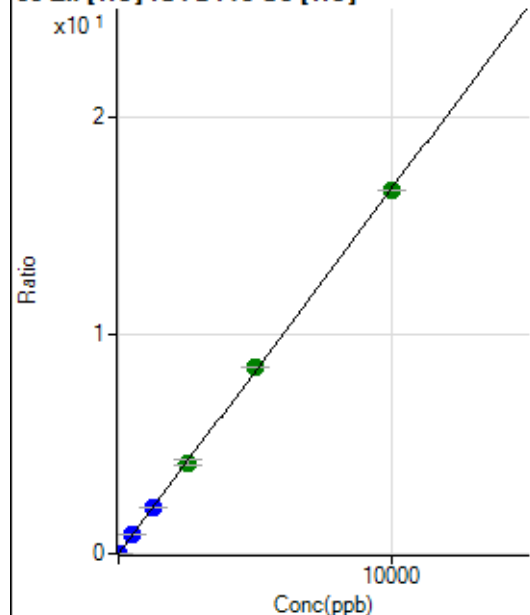
$$R = 0.9999$$

$$DL = 0.05557$$

$$BEC = 0.36$$

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	453.34	0.0010	P	7.5
2	☐	2.000	5.431	4480.71	0.0101	P	2.1
3	☐	500.000	521.428	362200.99	0.8718	P	7.9
4	☐	1250.000	1253.732	876407.46	2.0947	P	0.4
5	☐	2500.000	2496.501	1738658.64	4.1700	A	4.8
6	☐	5000.000	5108.720	3351385.02	8.5322	A	0.7
7	☐	10000.000	9944.976	6499722.75	16.6084	A	0.2
8	☐			3115.91	0.0078	P	6.6

$$y = 0.0017 * x + 0.0010$$

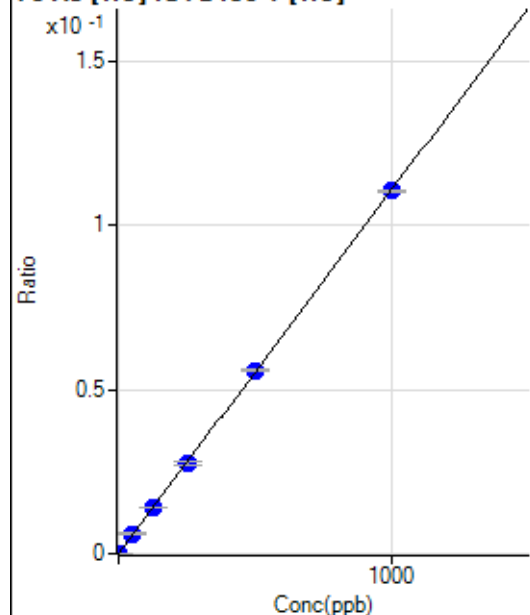
$$R = 0.9999$$

$$DL = 0.1371$$

$$BEC = 0.6084$$

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	10.00	0.0000	P	100.
2	☐	1.000	1.162	586.68	0.0001	P	5.3
3	☐	50.000	55.142	25793.56	0.0061	P	6.1
4	☐	125.000	128.248	61212.20	0.0142	P	1.1
5	☐	250.000	248.157	118060.44	0.0275	P	3.5
6	☐	500.000	504.081	229878.17	0.0559	P	0.7
7	☐	1000.000	997.757	452411.06	0.1106	P	0.8
8	☐			260.00	0.0001	P	4.3

$$y = 1.1084E-004 * x + 2.2207E-006$$

$$R = 1.0000$$

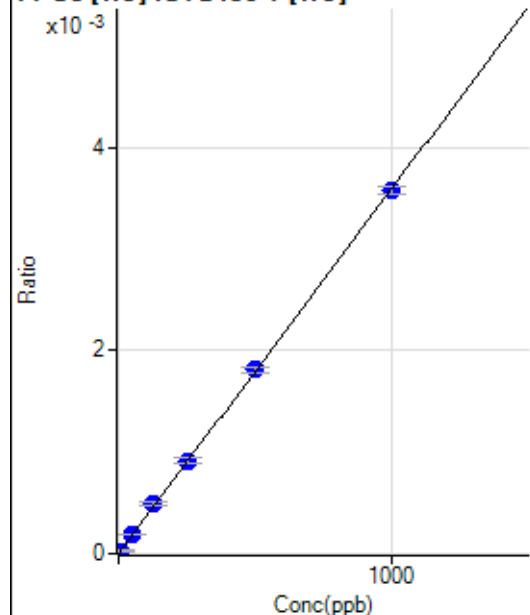
$$DL = 0.06037$$

$$BEC = 0.02003$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.532	121.12	0.0000	P	18.1
3	☐	50.000	52.301	792.25	0.0002	P	7.6
4	☐	125.000	136.108	2104.62	0.0005	P	7.7
5	☐	250.000	255.133	3931.68	0.0009	P	5.8
6	☐	500.000	504.656	7458.61	0.0018	P	3.2
7	☐	1000.000	994.873	14622.86	0.0036	P	2.1
8	☐			4.44	0.0000	P	115.

$$y = 3.5926\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

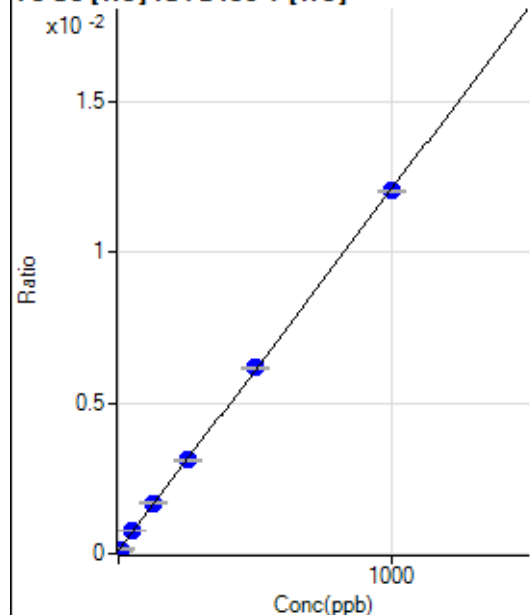
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	443.34	0.0001	P	7.3
2	☐	5.000	4.932	705.58	0.0002	P	6.2
3	☐	50.000	55.635	3234.83	0.0008	P	4.9
4	☐	125.000	132.489	7274.07	0.0017	P	1.4
5	☐	250.000	250.097	13314.95	0.0031	P	2.8
6	☐	500.000	506.702	25439.72	0.0062	P	1.0
7	☐	1000.000	995.408	49305.09	0.0121	P	0.3
8	☐			346.67	0.0001	P	8.4

$$y = 1.2009\text{E-}005 * x + 9.8306\text{E-}005$$

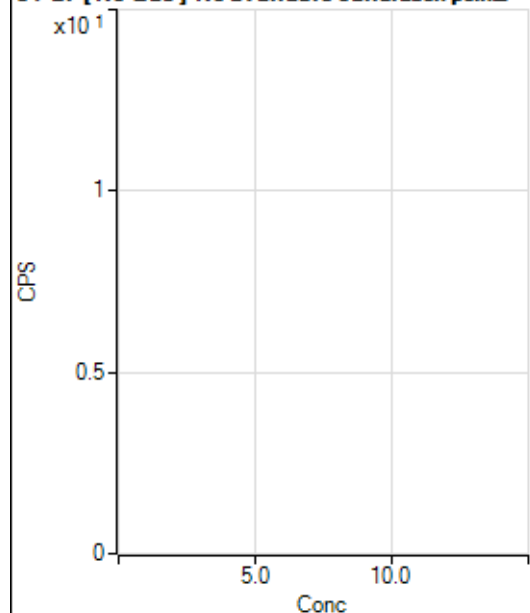
$$R = 0.9999$$

$$DL = 1.796$$

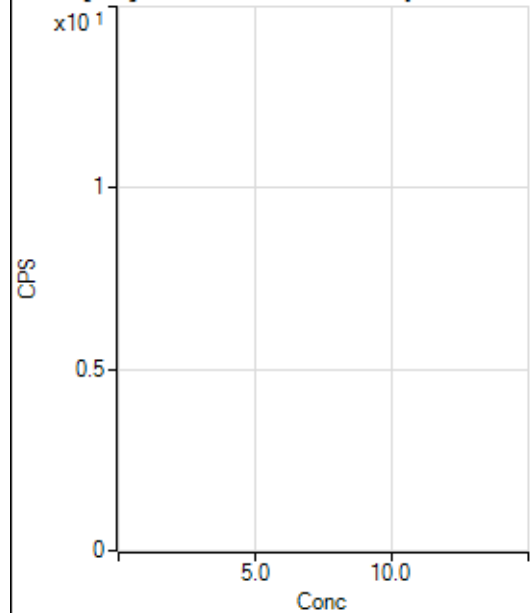
$$BEC = 8.186$$

Weight: <None>

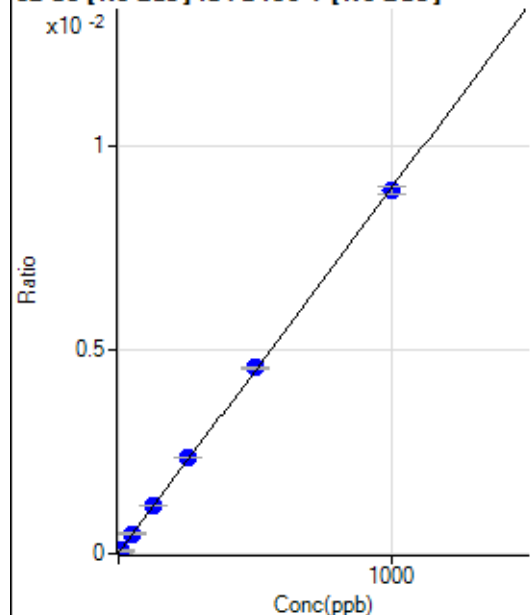
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15847.46		P	2.3
2	☐			16190.13		P	0.6
3	☐			14820.87		P	3.6
4	☐			13992.28		P	3.7
5	☐			13167.07		P	2.6
6	☐			12586.55		P	1.5
7	☐			13062.56		P	1.4
8	☐			13618.59		P	2.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			127.78		P	10.5
2	☐			112.22		P	17.4
3	☐			105.56		P	15.6
4	☐			103.33		P	28.7
5	☐			98.89		P	7.0
6	☐			101.11		P	31.2
7	☐			83.33		P	14.4
8	☐			107.78		P	4.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	297.05	0.0000	P	17.6
2	☐	5.000	5.768	1093.43	0.0001	P	4.8
3	☐	50.000	53.089	7557.97	0.0005	P	1.4
4	☐	125.000	128.615	17439.95	0.0012	P	0.2
5	☐	250.000	260.307	34027.71	0.0023	P	0.5
6	☐	500.000	508.073	64224.62	0.0046	P	0.7
7	☐	1000.000	992.777	124528.72	0.0089	P	2.0
8	☐			391.57	0.0000	P	9.1

$$y = 8.9390\text{E-}006 * x + 1.9303\text{E-}005$$

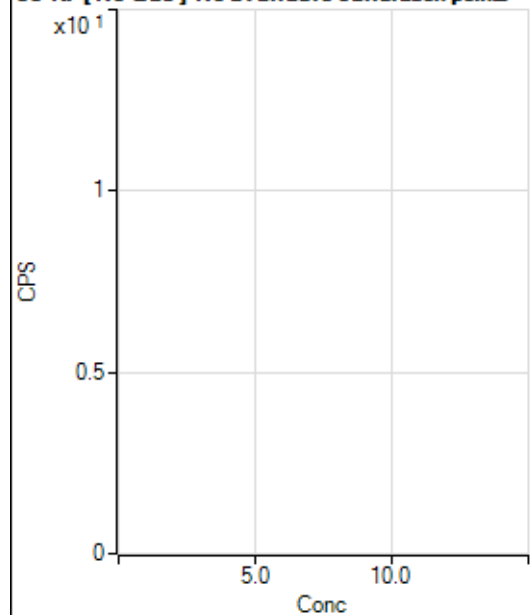
$$R = 0.9999$$

$$DL = 1.138$$

$$BEC = 2.159$$

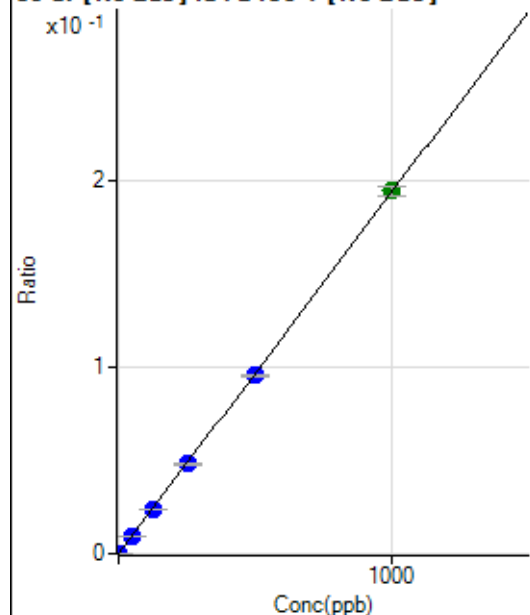
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			195.56		P	9.7
2	☐			192.23		P	18.0
3	☐			122.23		P	15.5
4	☐			176.67		P	1.9
5	☐			141.12		P	16.1
6	☐			164.45		P	10.0
7	☐			148.89		P	13.7
8	☐			194.45		P	14.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.12	0.0000	P	5.6
2	☐	1.000	1.053	3439.32	0.0002	P	2.4
3	☐	50.000	49.904	148180.73	0.0097	P	0.7
4	☐	125.000	123.288	356455.64	0.0239	P	0.8
5	☐	250.000	247.781	696190.33	0.0480	P	0.7
6	☐	500.000	492.521	1343324.83	0.0954	P	0.9
7	☐	1000.000	1004.513	2723941.28	0.1945	A	2.5
8	☐			9119.55	0.0007	P	3.2

$$y = 1.9365E-004 * x + 1.8921E-005$$

$$R = 1.0000$$

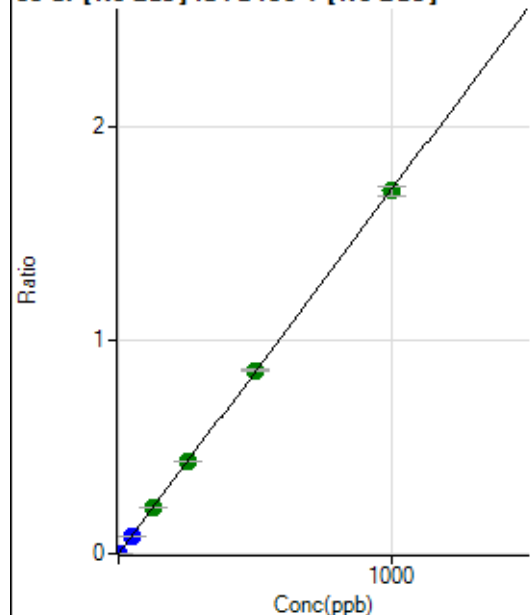
$$DL = 0.01653$$

$$BEC = 0.0977$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0000	P	3.7
2	☐	1.000	1.057	27959.99	0.0018	P	0.8
3	☐	50.000	49.064	1279765.81	0.0836	P	1.2
4	☐	125.000	125.722	3196845.23	0.2143	A	0.5
5	☐	250.000	253.501	6266407.34	0.4321	A	0.6
6	☐	500.000	504.375	12104962.87	0.8596	A	0.3
7	☐	1000.000	996.894	23788140.48	1.6991	A	2.6
8	☐			77560.65	0.0057	P	0.9

$$y = 0.0017 * x + 1.1481E-005$$

$$R = 1.0000$$

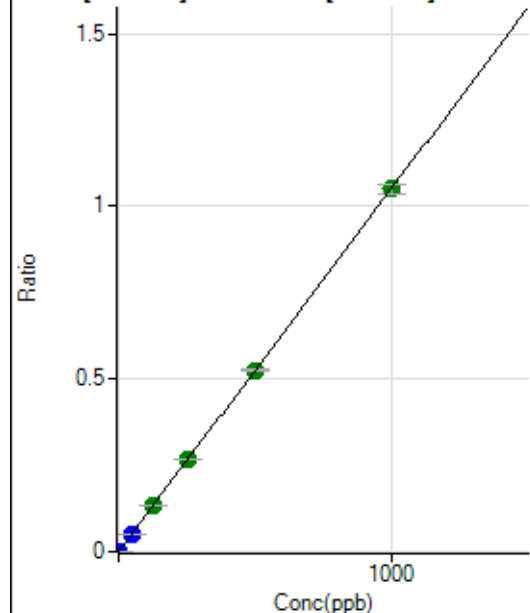
$$DL = 0.0007571$$

$$BEC = 0.006736$$

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	485.57	0.0000	P	12.9
2	☐	1.000	1.036	17294.75	0.0011	P	1.1
3	☐	50.000	49.096	790520.56	0.0517	P	0.9
4	☐	125.000	124.924	1960274.64	0.1314	A	0.3
5	☐	250.000	253.198	3862054.11	0.2663	A	0.7
6	☐	500.000	500.039	7404847.11	0.5259	A	0.4
7	☐	1000.000	999.236	14711494.92	1.0508	A	2.8
8	☐			25694.77	0.0019	P	0.4

$$y = 0.0011 * x + 3.1560E-005$$

$$R = 1.0000$$

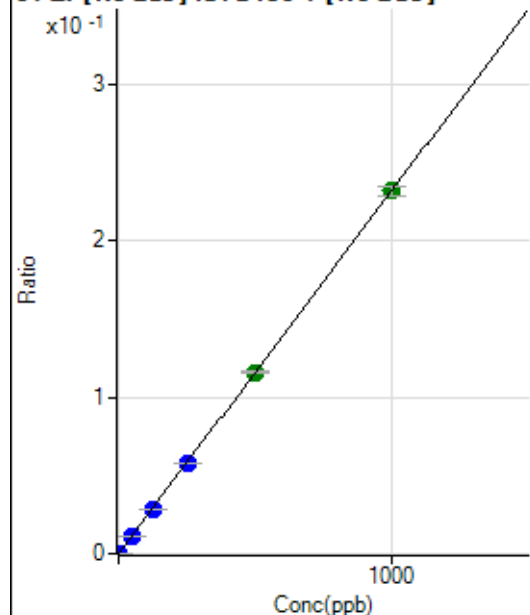
$$DL = 0.01163$$

$$BEC = 0.03001$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	84.44	0.0000	P	6.0
2	☐	1.000	1.024	3749.41	0.0002	P	1.3
3	☐	50.000	49.323	175148.32	0.0114	P	1.2
4	☐	125.000	123.396	427071.88	0.0286	P	0.4
5	☐	250.000	249.695	840070.14	0.0579	P	0.6
6	☐	500.000	500.107	1633509.66	0.1160	A	1.4
7	☐	1000.000	1000.257	3248307.97	0.2320	A	2.8
8	☐			5642.24	0.0004	P	2.0

$$y = 2.3195E-004 * x + 5.4878E-006$$

$$R = 1.0000$$

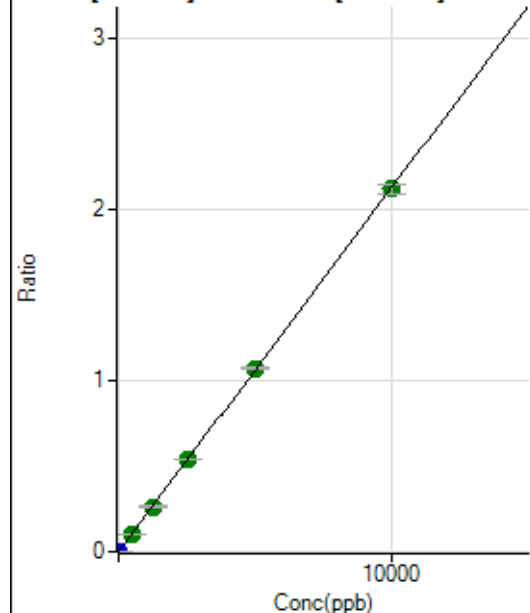
$$DL = 0.004293$$

$$BEC = 0.02366$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	218.90	0.0000	P	17.9
2	☐	5.000	6.237	20689.15	0.0013	P	0.8
3	☐	500.000	496.599	1616581.19	0.1056	A	1.2
4	☐	1250.000	1241.209	3938676.36	0.2640	A	0.3
5	☐	2500.000	2529.852	7804286.69	0.5381	A	0.4
6	☐	5000.000	5039.799	15094715.61	1.0720	A	0.6
7	☐	10000.000	9973.906	29699809.56	2.1214	A	3.0
8	☐			12641.08	0.0009	P	0.5

$$y = 2.1270\text{E-}004 * x + 1.4229\text{E-}005$$

$$R = 1.0000$$

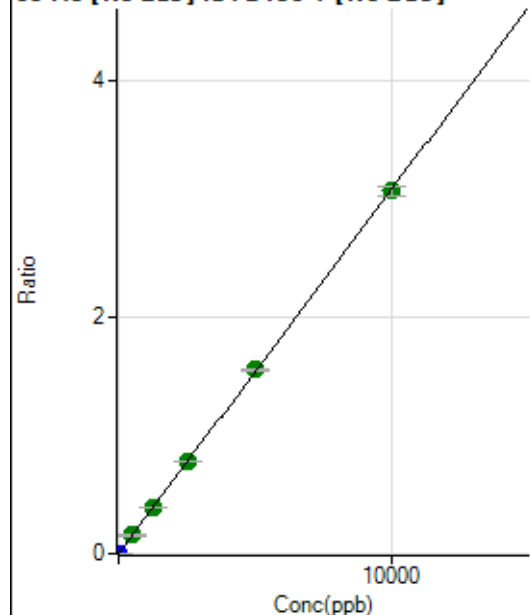
$$DL = 0.03586$$

$$BEC = 0.0669$$

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	100.00	0.0000	P	8.7
2	☐	5.000	5.258	25060.37	0.0016	P	0.9
3	☐	500.000	504.399	2374774.37	0.1552	A	1.7
4	☐	1250.000	1254.240	5756790.75	0.3859	A	0.4
5	☐	2500.000	2544.961	11355887.75	0.7830	A	0.3
6	☐	5000.000	5051.282	21883479.67	1.5541	A	0.3
7	☐	10000.000	9962.369	42911925.19	3.0650	A	2.6
8	☐			4944.21	0.0004	P	2.6

$$y = 3.0766\text{E-}004 * x + 6.4983\text{E-}006$$

$$R = 1.0000$$

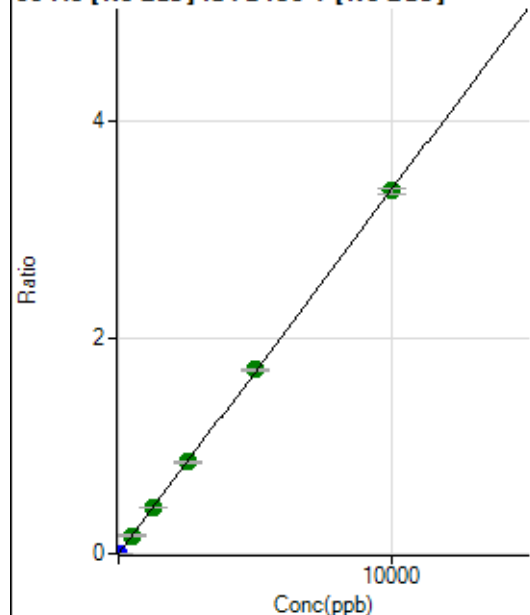
$$DL = 0.005521$$

$$BEC = 0.02112$$

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	175.56	0.0000	P	10.9
2	☐	5.000	5.309	27785.26	0.0018	P	1.3
3	☐	500.000	501.289	2585956.70	0.1690	A	1.5
4	☐	1250.000	1251.534	6293777.68	0.4219	A	0.9
5	☐	2500.000	2511.311	12277822.46	0.8465	A	0.3
6	☐	5000.000	5050.602	23973713.81	1.7025	A	0.7
7	☐	10000.000	9971.615	47066828.74	3.3613	A	1.8
8	☐			16517.19	0.0012	P	2.3

$$y = 3.3709\text{E-}004 * x + 1.1410\text{E-}005$$

$$R = 1.0000$$

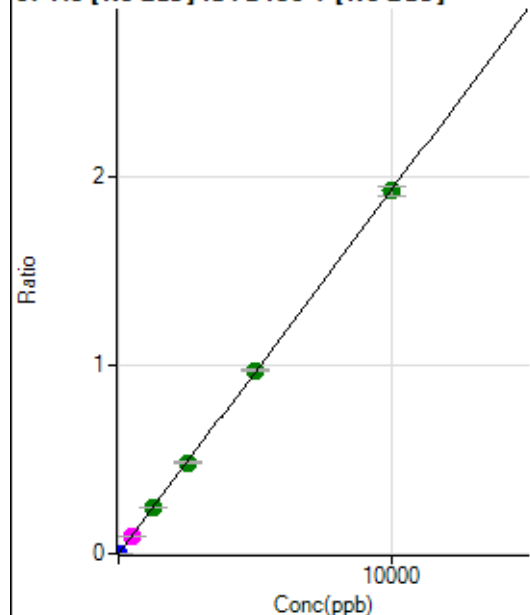
$$DL = 0.01109$$

$$BEC = 0.03385$$

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	74.45	0.0000	P	17.9
2	☐	5.000	5.254	15706.31	0.0010	P	0.3
3	☐	500.000	493.158	1455211.59	0.0951	M	1.0
4	☐	1250.000	1249.267	3593724.67	0.2409	A	0.7
5	☐	2500.000	2511.187	7022842.39	0.4842	A	0.5
6	☐	5000.000	5035.964	13673077.71	0.9710	A	1.0
7	☐	10000.000	9979.655	26940543.77	1.9242	A	2.6
8	☐			3183.71	0.0002	P	2.1

$$y = 1.9281\text{E-}004 * x + 4.8371\text{E-}006$$

$$R = 1.0000$$

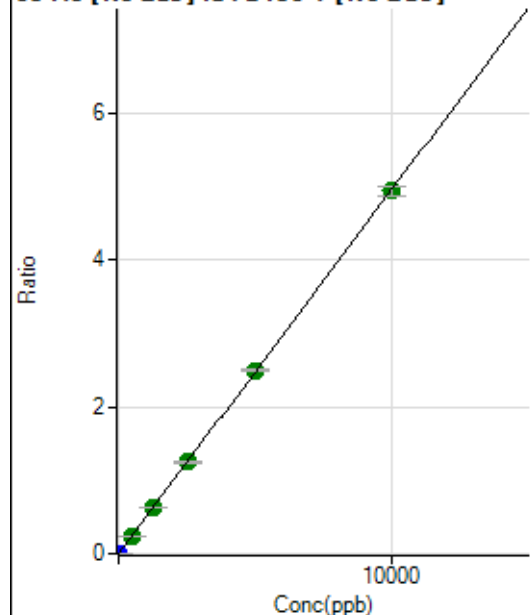
$$DL = 0.01349$$

$$BEC = 0.02509$$

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	164.45	0.0000	P	16.4
2	☐	5.000	5.272	40449.21	0.0026	P	1.2
3	☐	500.000	498.112	3775015.74	0.2467	A	0.5
4	☐	1250.000	1252.645	9254587.92	0.6203	A	0.5
5	☐	2500.000	2515.622	18068399.31	1.2458	A	0.4
6	☐	5000.000	5043.463	35169657.53	2.4976	A	1.1
7	☐	10000.000	9974.127	69155542.86	4.9394	A	2.5
8	☐			7435.28	0.0005	P	4.0

$$y = 4.9522\text{E-}004 * x + 1.0687\text{E-}005$$

$$R = 1.0000$$

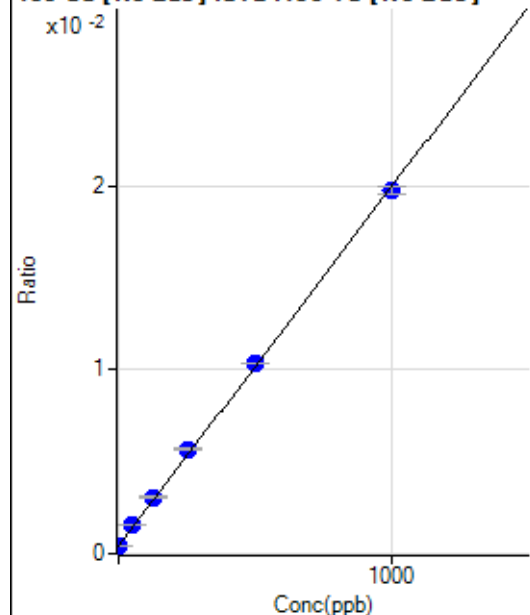
$$DL = 0.01062$$

$$BEC = 0.02158$$

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	4664.13	0.0004	P	3.3
2	☐	1.000	1.210	4972.01	0.0004	P	3.2
3	☐	50.000	57.764	17675.28	0.0015	P	1.3
4	☐	125.000	136.348	35309.51	0.0031	P	1.7
5	☐	250.000	269.621	64903.97	0.0057	P	2.8
6	☐	500.000	509.084	120796.52	0.0103	P	0.7
7	☐	1000.000	988.746	230895.96	0.0197	P	2.1
8	☐			4219.54	0.0004	P	1.9

$$y = 1.9515\text{E-}005 * x + 4.0973\text{E-}004$$

$$R = 0.9997$$

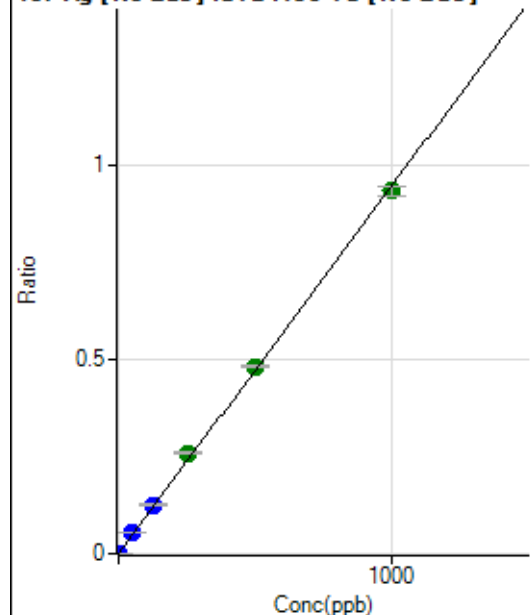
$$DL = 2.088$$

$$BEC = 21$$

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	83.34	0.0000	P	22.8
2	☐	1.000	1.190	12987.02	0.0011	P	1.2
3	☐	50.000	55.388	602059.12	0.0524	P	0.9
4	☐	125.000	133.000	1445843.71	0.1257	P	1.3
5	☐	250.000	273.918	2963790.20	0.2589	A	0.7
6	☐	500.000	510.294	5632884.78	0.4824	A	1.3
7	☐	1000.000	987.604	10938682.89	0.9336	A	2.3
8	☐			1018.94	0.0001	P	6.5

$$y = 9.4529E-004 * x + 7.3275E-006$$

$$R = 0.9996$$

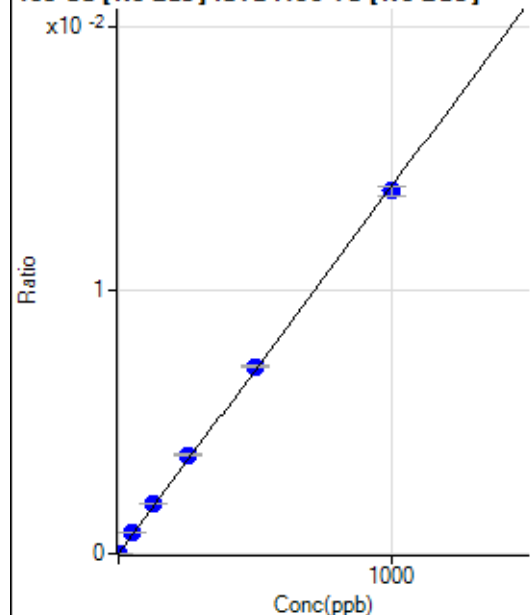
$$DL = 0.005313$$

$$BEC = 0.007752$$

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	11.11	0.0000	P	95.8
2	☐	1.000	1.105	187.78	0.0000	P	13.8
3	☐	50.000	57.204	9177.42	0.0008	P	0.9
4	☐	125.000	136.818	21935.53	0.0019	P	1.3
5	☐	250.000	269.313	42961.15	0.0038	P	1.8
6	☐	500.000	510.396	83062.36	0.0071	P	1.1
7	☐	1000.000	988.136	161337.62	0.0138	P	2.9
8	☐			94.45	0.0000	P	26.0

$$y = 1.3935E-005 * x + 9.7161E-007$$

$$R = 0.9997$$

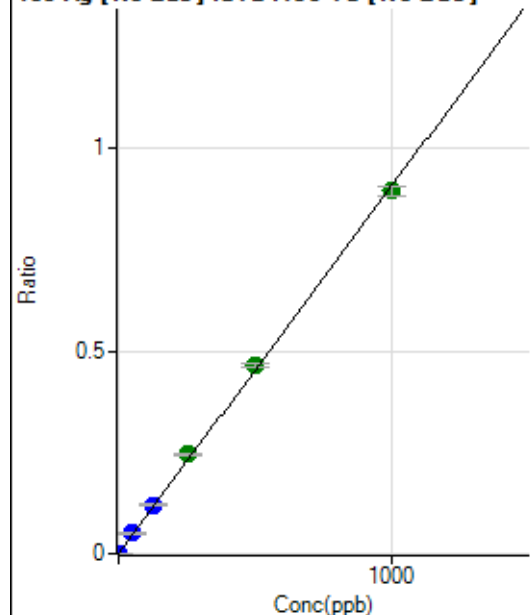
$$DL = 0.2004$$

$$BEC = 0.06973$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	34.44	0.0000	P	58.6
2	☐	1.000	1.137	11858.26	0.0010	P	1.2
3	☐	50.000	55.047	573718.22	0.0499	P	1.3
4	☐	125.000	133.321	1389765.71	0.1209	P	1.3
5	☐	250.000	271.013	2811830.51	0.2457	A	1.9
6	☐	500.000	512.160	5421034.02	0.4643	A	1.5
7	☐	1000.000	987.374	10486562.07	0.8950	A	2.6
8	☐			866.70	0.0001	P	16.6

$$y = 9.0647\text{E-}004 * x + 3.0262\text{E-}006$$

$$R = 0.9996$$

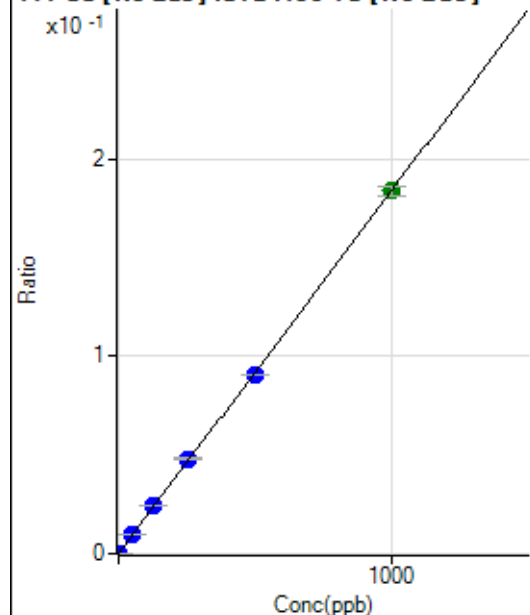
$$DL = 0.005868$$

$$BEC = 0.003338$$

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	939.50	0.0001	P	3.1
2	☐	1.000	1.181	3436.55	0.0003	P	4.7
3	☐	50.000	54.539	116121.64	0.0101	P	1.2
4	☐	125.000	132.157	280077.19	0.0244	P	1.8
5	☐	250.000	260.867	549333.54	0.0480	P	2.0
6	☐	500.000	492.802	1057933.37	0.0906	P	0.7
7	☐	1000.000	999.760	2152526.11	0.1837	A	2.6
8	☐			1058.91	0.0001	P	5.5

$$y = 1.8368\text{E-}004 * x + 8.2534\text{E-}005$$

$$R = 0.9999$$

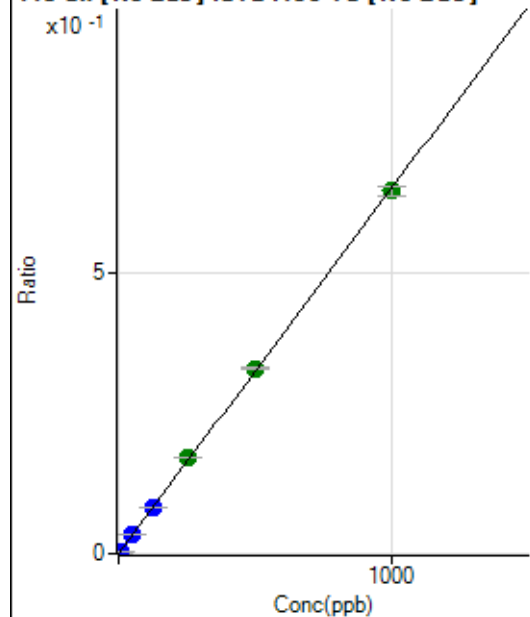
$$DL = 0.04164$$

$$BEC = 0.4493$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1092.27	0.0001	P	2.1
2	☐	5.000	5.590	42841.13	0.0037	P	1.1
3	☐	50.000	51.660	387594.18	0.0337	P	1.4
4	☐	125.000	126.911	950781.51	0.0827	P	1.4
5	☐	250.000	262.883	1959115.18	0.1712	A	0.6
6	☐	500.000	505.954	3845689.77	0.3293	A	1.0
7	☐	1000.000	993.477	7575331.42	0.6466	A	2.9
8	☐			2195.74	0.0002	P	3.4

$$y = 6.5073\text{E-}004 * x + 9.5942\text{E-}005$$

$$R = 0.9999$$

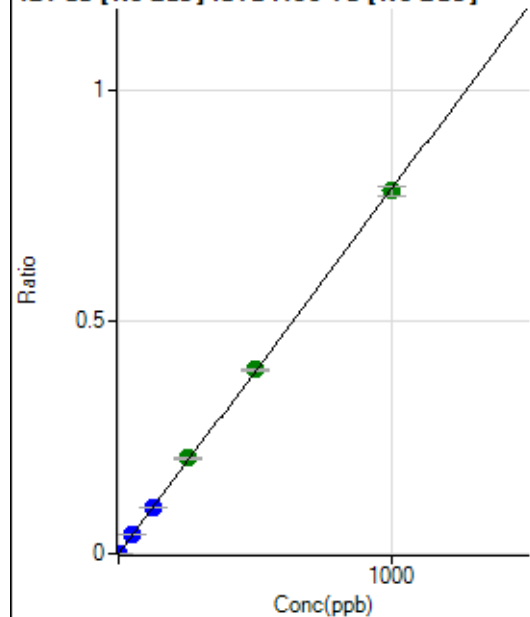
$$DL = 0.00932$$

$$BEC = 0.1474$$

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	33.33	0.0000	P	40.3
2	☐	2.000	2.200	19849.34	0.0017	P	2.3
3	☐	50.000	50.953	459946.25	0.0400	P	2.1
4	☐	125.000	125.339	1131651.31	0.0984	P	1.7
5	☐	250.000	261.113	2346555.83	0.2050	A	0.7
6	☐	500.000	504.203	4622662.08	0.3959	A	0.8
7	☐	1000.000	995.030	9153260.63	0.7812	A	2.7
8	☐			2642.49	0.0002	P	3.6

$$y = 7.8514\text{E-}004 * x + 2.9291\text{E-}006$$

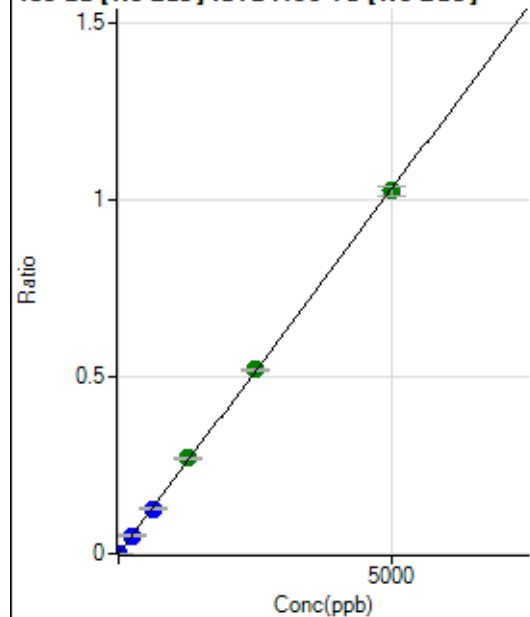
$$R = 0.9999$$

$$DL = 0.004506$$

$$BEC = 0.003731$$

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	37.78	0.0000	P	19.6
2	☐	10.000	10.787	25502.88	0.0022	P	1.7
3	☐	250.000	250.245	591945.78	0.0515	P	1.4
4	☐	625.000	618.700	1463755.83	0.1273	P	1.6
5	☐	1250.000	1307.649	3079382.49	0.2690	A	0.6
6	☐	2500.000	2522.566	6060117.55	0.5190	A	1.1
7	☐	5000.000	4975.079	11992875.38	1.0236	A	2.4
8	☐			4117.30	0.0004	P	0.3

$$y = 2.0574\text{E-}004 * x + 3.3155\text{E-}006$$

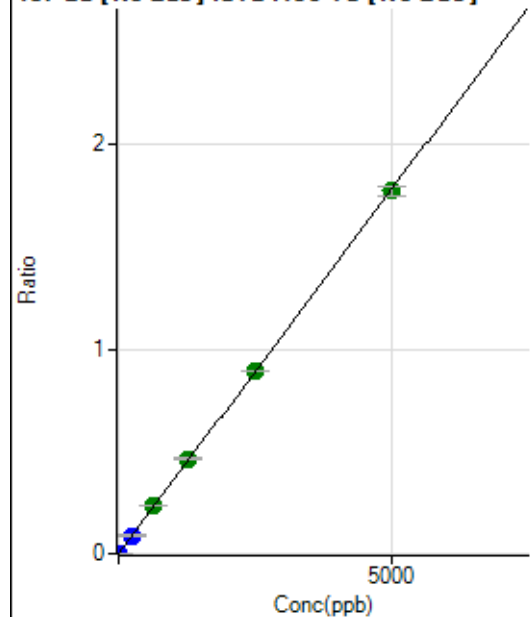
$$R = 0.9999$$

$$DL = 0.009493$$

$$BEC = 0.01612$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0000	P	21.2
2	☐	10.000	10.837	44363.37	0.0039	P	0.6
3	☐	250.000	250.152	1024788.90	0.0891	P	1.6
4	☐	625.000	654.558	2682225.45	0.2332	A	0.7
5	☐	1250.000	1299.478	5299294.09	0.4630	A	1.7
6	☐	2500.000	2505.507	10424797.28	0.8928	A	0.6
7	☐	5000.000	4981.173	20794614.42	1.7749	A	2.8
8	☐			7230.79	0.0007	P	2.6

$$y = 3.5631\text{E-}004 * x + 4.9776\text{E-}006$$

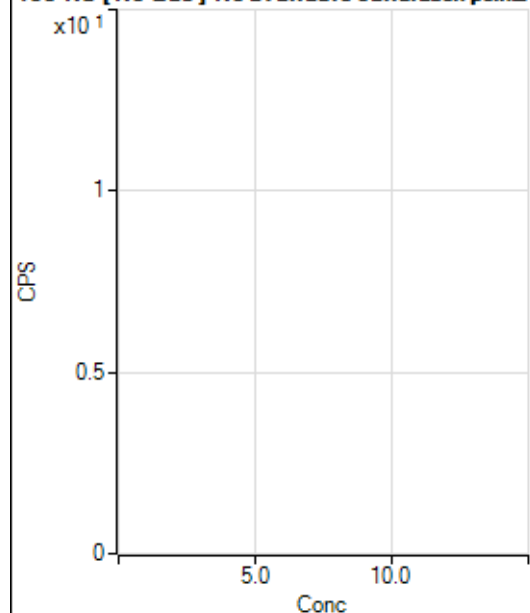
$$R = 0.9999$$

$$DL = 0.008899$$

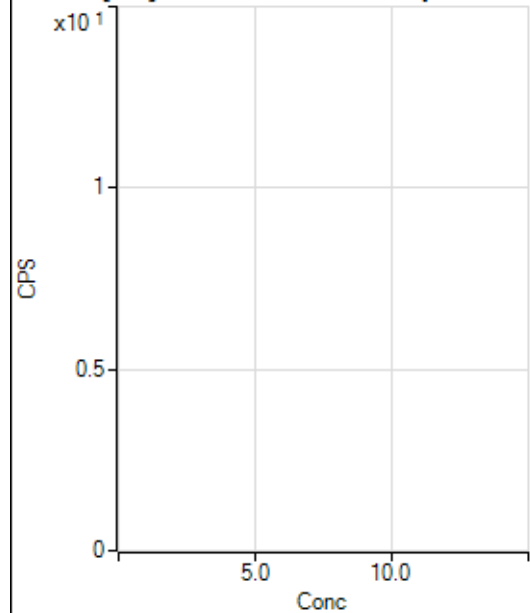
$$BEC = 0.01397$$

Weight: <None>

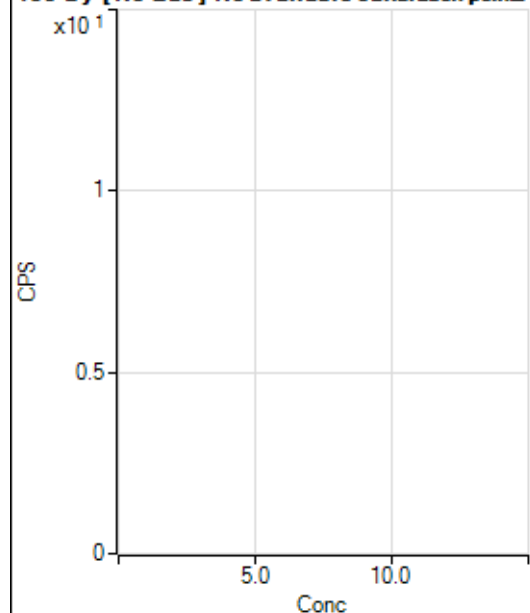
Min Conc: 0

150 Nd [No Gas] No available calibration points

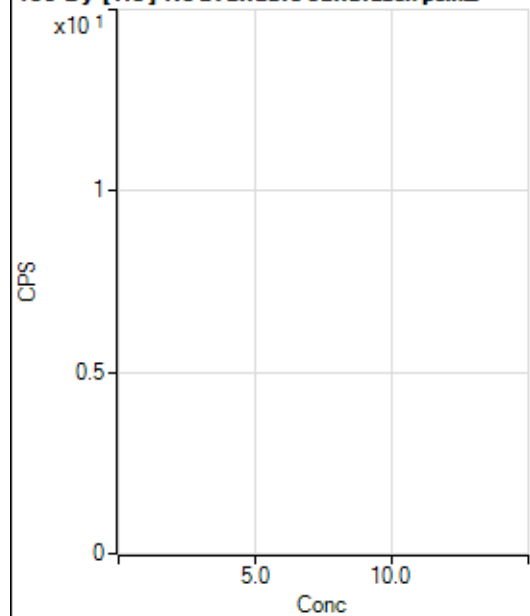
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			12.22		P	78.7
3	☐			38.89		P	19.8
4	☐			100.00		P	18.6
5	☐			170.00		P	23.8
6	☐			324.45		P	19.1
7	☐			716.69		P	2.6
8	☐			211.11		P	12.9

150 Nd [He] No available calibration points

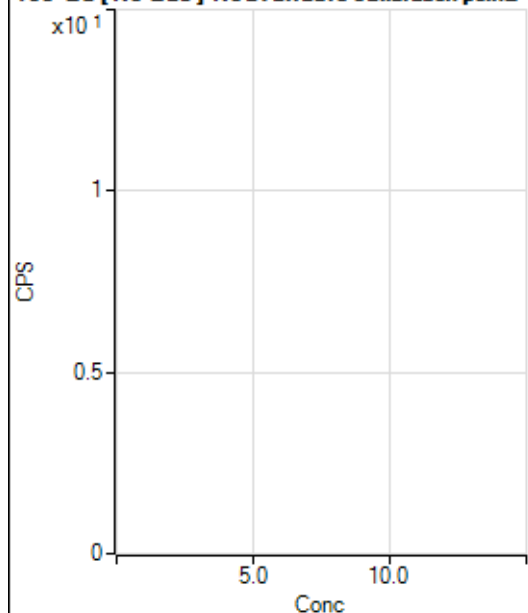
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			20.00		P	44.1
4	☐			27.78		P	27.7
5	☐			45.56		P	18.4
6	☐			80.00		P	12.5
7	☐			197.78		P	18.6
8	☐			130.00		P	11.2

156 Dy [No Gas] No available calibration points

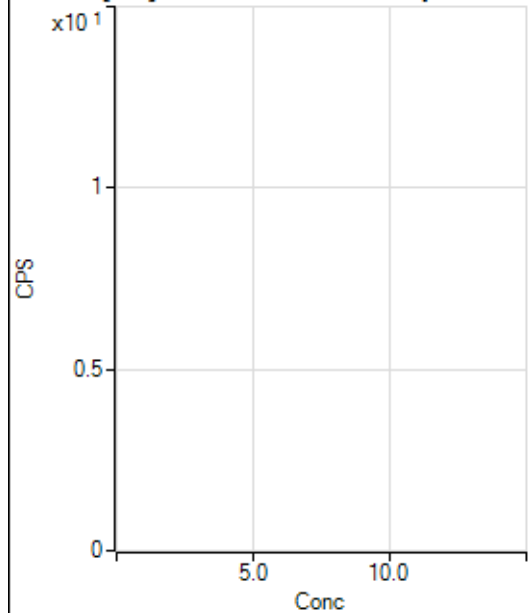
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			12.22		P	31.5
3	☐			22.22		P	22.9
4	☐			31.11		P	44.6
5	☐			67.78		P	10.2
6	☐			118.89		P	8.1
7	☐			232.23		P	9.8
8	☐			333.34		P	20.7

156 Dy [He] No available calibration points

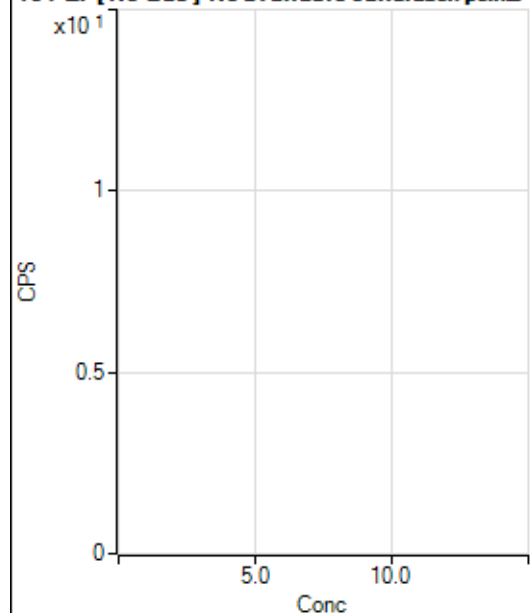
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			2.22		P	173.
3	☐			33.34		P	17.3
4	☐			83.33		P	20.0
5	☐			145.56		P	13.0
6	☐			314.45		P	7.1
7	☐			644.47		P	4.6
8	☐			286.67		P	4.2

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

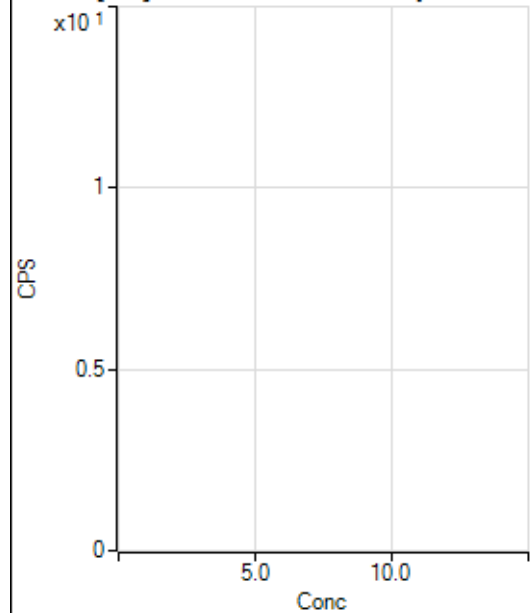
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.34		P	35.2
2	☐			45.56		P	33.8
3	☐			37.78		P	18.4
4	☐			43.33		P	46.8
5	☐			66.67		P	35.0
6	☐			96.67		P	12.4
7	☐			161.11		P	3.2
8	☐			338.90		P	2.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			403.34		P	3.6
2	☐			421.12		P	9.2
3	☐			377.79		P	11.0
4	☐			406.68		P	11.1
5	☐			435.57		P	10.9
6	☐			404.45		P	10.2
7	☐			460.01		P	2.6
8	☐			633.35		P	6.9

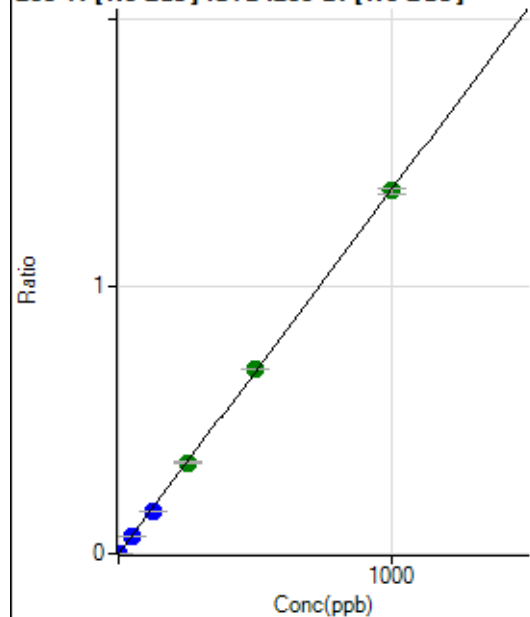
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	30.6
2	☐			50.00		P	30.5
3	☐			56.67		P	17.6
4	☐			66.67		P	15.0
5	☐			74.44		P	33.9
6	☐			92.22		P	15.0
7	☐			193.34		P	13.7
8	☐			433.35		P	8.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	36.4
2	☐			32.22		P	23.9
3	☐			40.00		P	22.0
4	☐			43.33		P	38.5
5	☐			60.00		P	5.5
6	☐			81.11		P	12.6
7	☐			150.00		P	17.4
8	☐			323.34		P	6.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	125.56	0.0000	P	31.5
2	☐	1.000	0.963	9425.55	0.0013	P	2.4
3	☐	50.000	45.503	439645.79	0.0619	P	1.5
4	☐	125.000	114.675	1106066.62	0.1560	P	1.1
5	☐	250.000	250.986	2457967.06	0.3414	A	0.7
6	☐	500.000	507.563	4957810.52	0.6905	A	0.2
7	☐	1000.000	997.487	9797283.74	1.3570	A	1.5
8	☐			566.68	0.0001	P	4.6

$$y = 0.0014 * x + 1.7609E-005$$

$$R = 0.9999$$

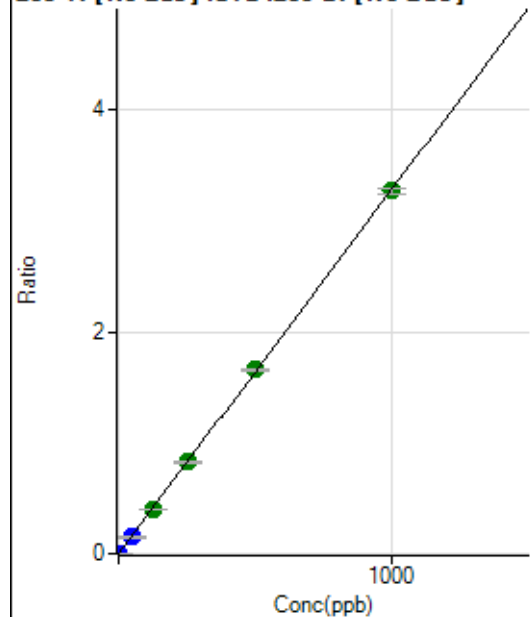
$$DL = 0.01222$$

$$BEC = 0.01294$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	320.01	0.0000	P	19.4
2	☐	1.000	0.971	22928.27	0.0032	P	1.0
3	☐	50.000	44.982	1047833.18	0.1476	P	1.3
4	☐	125.000	123.757	2877819.96	0.4059	A	0.7
5	☐	250.000	251.247	5931822.48	0.8241	A	1.6
6	☐	500.000	505.585	11906162.88	1.6582	A	0.7
7	☐	1000.000	997.302	23616263.54	3.2709	A	1.2
8	☐			1338.97	0.0002	P	7.6

$$y = 0.0033 * x + 4.4916E-005$$

$$R = 1.0000$$

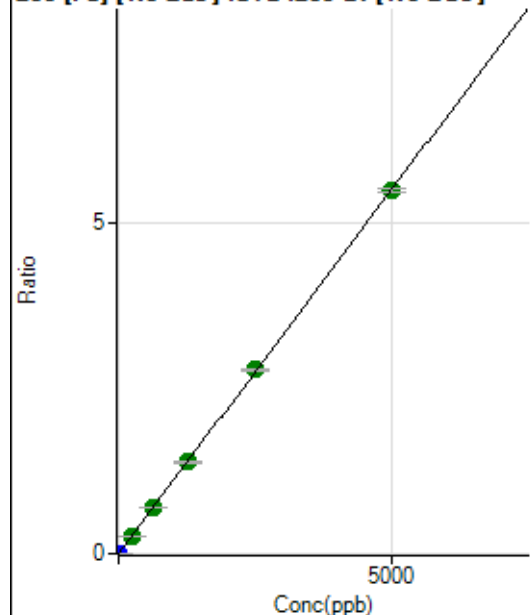
$$DL = 0.007959$$

$$BEC = 0.0137$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	555.57	0.0001	P	9.4
2	☐	1.000	0.965	8091.36	0.0011	P	3.3
3	☐	250.000	243.540	1902846.10	0.2680	A	1.2
4	☐	625.000	628.347	4900782.11	0.6913	A	1.6
5	☐	1250.000	1259.106	9971015.89	1.3851	A	0.8
6	☐	2500.000	2524.604	19940980.26	2.7772	A	1.0
7	☐	5000.000	4985.326	39596873.86	5.4841	A	1.1
8	☐			3511.60	0.0006	P	4.3

$$y = 0.0011 * x + 7.7922E-005$$

$$R = 1.0000$$

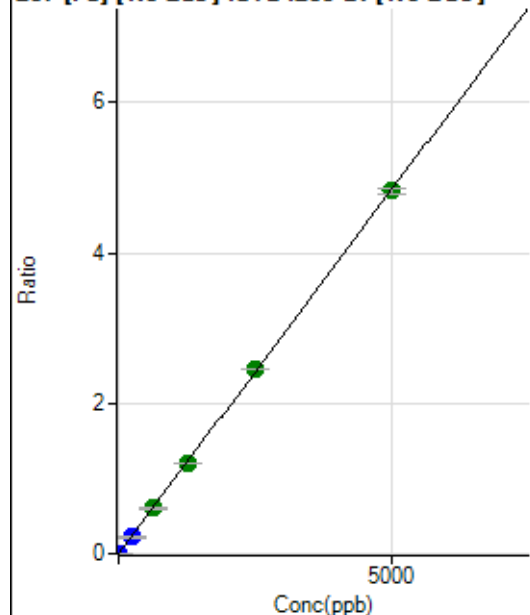
$$DL = 0.01995$$

$$BEC = 0.07084$$

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	430.01	0.0001	P	11.0
2	☐	1.000	0.965	7064.13	0.0010	P	2.8
3	☐	250.000	225.184	1548206.38	0.2180	P	1.2
4	☐	625.000	623.127	4276675.74	0.6032	A	1.6
5	☐	1250.000	1252.401	8727628.83	1.2124	A	0.3
6	☐	2500.000	2529.886	17584221.82	2.4490	A	0.1
7	☐	5000.000	4985.932	34846473.37	4.8265	A	1.6
8	☐			3121.51	0.0005	P	6.8

$$y = 9.6800E-004 * x + 6.0362E-005$$

$$R = 1.0000$$

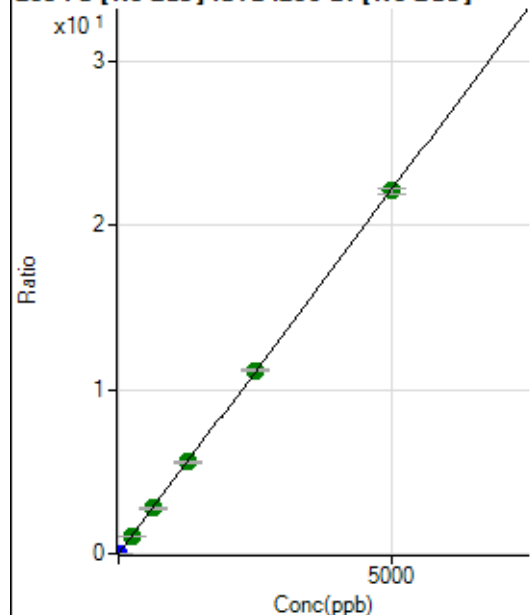
$$DL = 0.02066$$

$$BEC = 0.06236$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2095.64	0.0003	P	5.3
2	☐	1.000	0.961	32295.26	0.0045	P	2.3
3	☐	250.000	240.778	7572779.37	1.0665	A	0.5
4	☐	625.000	623.643	19579608.74	2.7618	A	1.0
5	☐	1250.000	1258.211	40108058.85	5.5717	A	0.8
6	☐	2500.000	2522.952	80216739.22	11.1720	A	0.3
7	☐	5000.000	4987.102	159436835.9	22.0833	A	1.8
8	☐			14164.16	0.0023	P	3.8

$$y = 0.0044 * x + 2.9399E-004$$

$$R = 1.0000$$

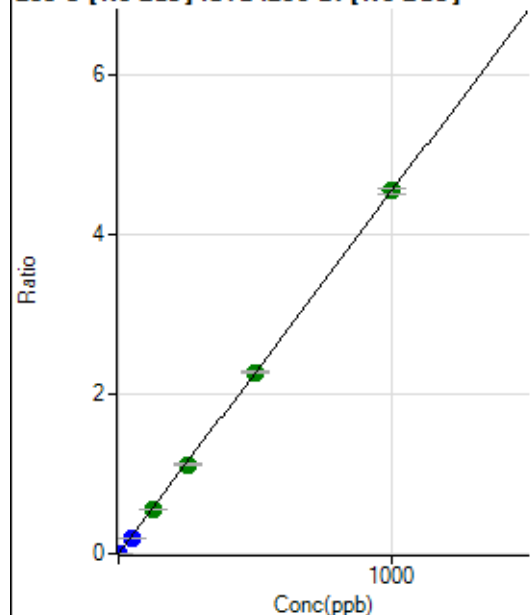
$$DL = 0.01061$$

$$BEC = 0.06639$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	32.3
2	☐	1.000	0.888	28623.03	0.0040	P	2.2
3	☐	50.000	43.026	1384856.78	0.1950	P	1.0
4	☐	125.000	121.717	3911438.76	0.5517	A	0.4
5	☐	250.000	246.238	8034573.63	1.1161	A	1.0
6	☐	500.000	500.746	16297475.45	2.2698	A	0.8
7	☐	1000.000	1001.327	32769990.07	4.5388	A	1.6
8	☐			836.70	0.0001	P	17.4

$$y = 0.0045 * x + 3.7361E-006$$

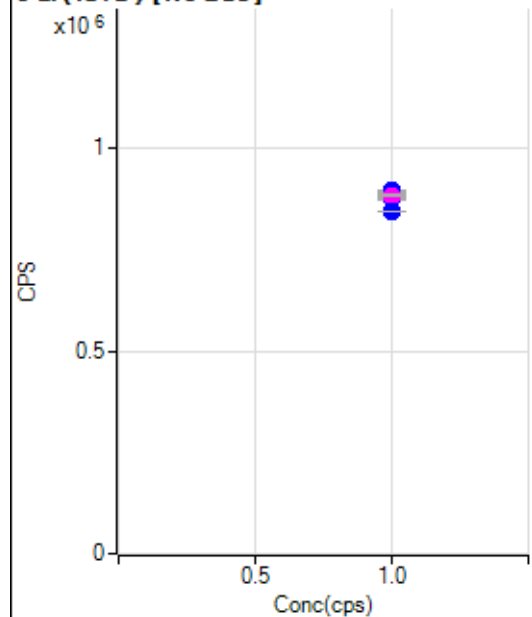
$$R = 1.0000$$

$$DL = 0.0007998$$

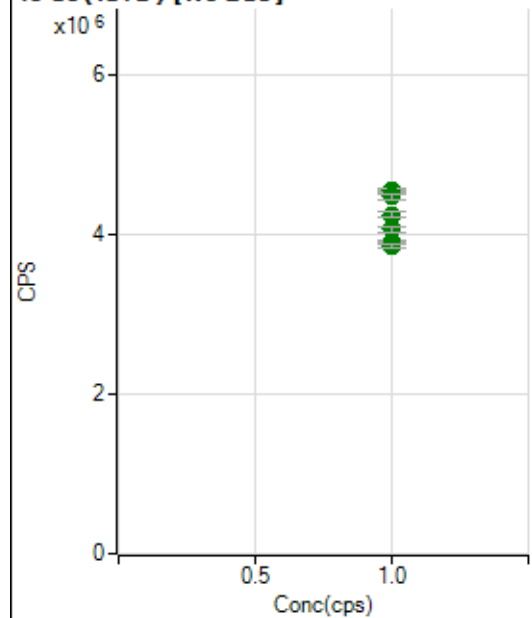
$$BEC = 0.0008242$$

Weight: <None>

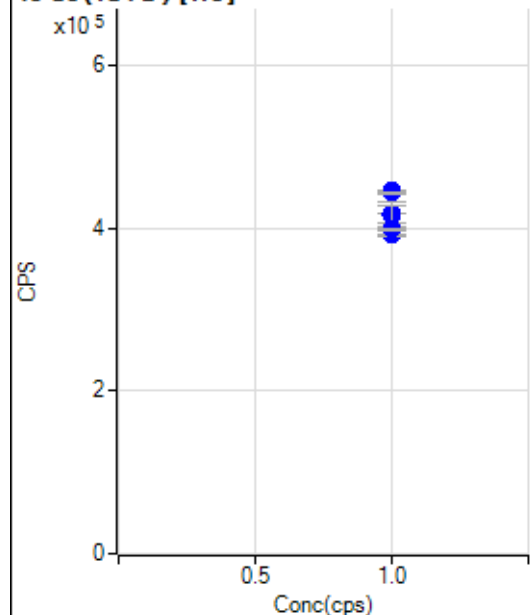
Min Conc: 0

6 Li (ISTD) [No Gas]

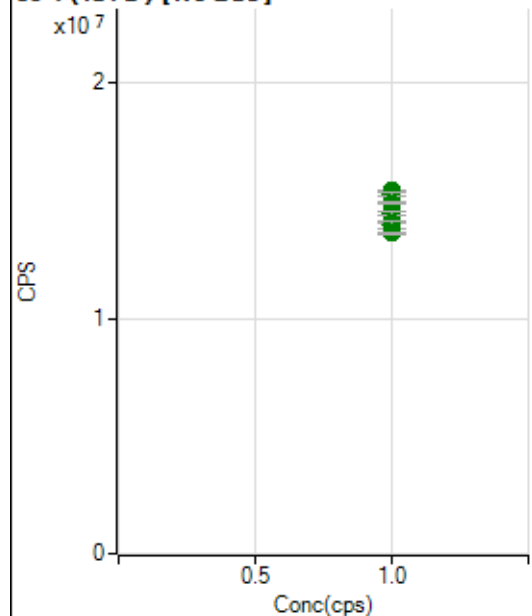
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		877252.13		P	0.7
2	☐	1.000		880238.97		P	0.4
3	☐	1.000		884335.39		M	0.5
4	☐	1.000		891403.23		P	0.4
5	☐	1.000		894737.81		P	0.3
6	☐	1.000		892087.93		P	0.3
7	☐	1.000		883446.37		M	0.7
8	☐	1.000		844107.28		P	0.5

45 Sc (ISTD) [No Gas]

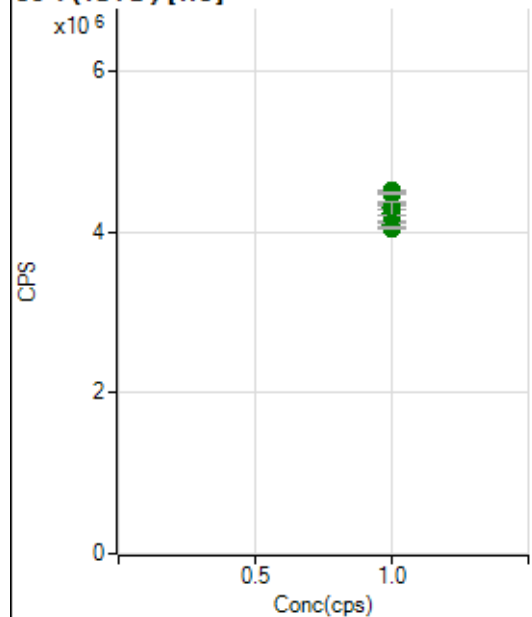
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4541554.27		A	0.5
2	☐	1.000		4549210.59		A	1.0
3	☐	1.000		4482050.84		A	1.7
4	☐	1.000		4248661.71		A	1.6
5	☐	1.000		4069165.78		A	1.5
6	☐	1.000		3908056.09		A	0.8
7	☐	1.000		3871007.75		A	1.8
8	☐	1.000		3853803.24		A	1.6

45 Sc (ISTD) [He]

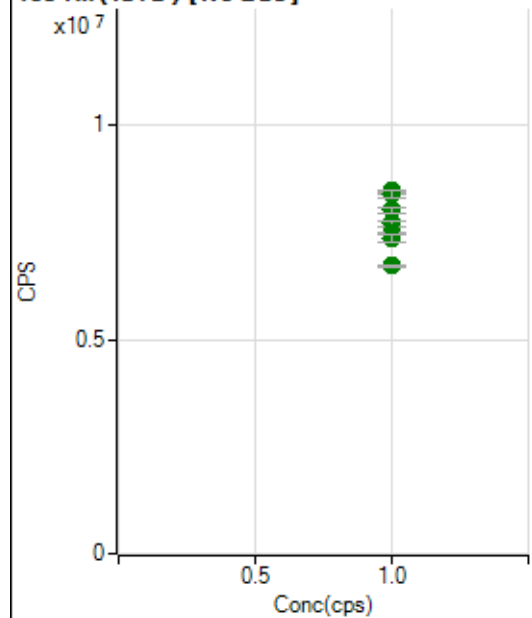
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		446017.85		P	0.8
2	☐	1.000		444286.53		P	0.6
3	☐	1.000		417054.70		P	7.2
4	☐	1.000		418401.19		P	0.2
5	☐	1.000		417579.65		P	4.8
6	☐	1.000		392788.04		P	0.3
7	☐	1.000		391348.96		P	0.6
8	☐	1.000		398389.83		P	0.2

89 Y (ISTD) [No Gas]

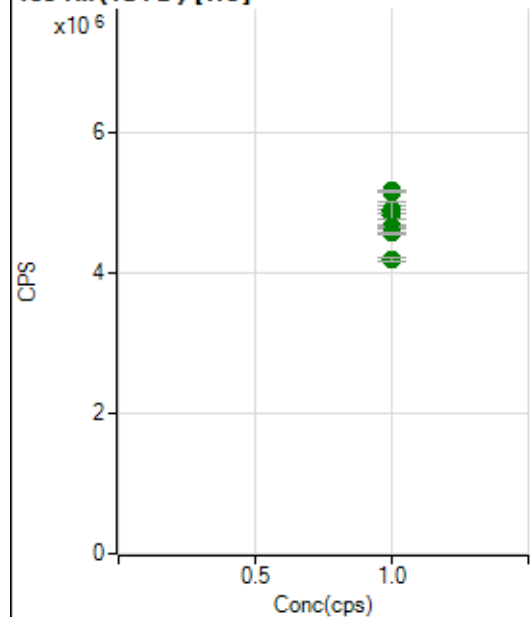
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15387625.88		A	0.3
2	☐	1.000		15429103.66		A	0.4
3	☐	1.000		15303757.69		A	1.3
4	☐	1.000		14918688.25		A	0.7
5	☐	1.000		14503677.42		A	1.0
6	☐	1.000		14081509.93		A	0.2
7	☐	1.000		14006259.79		A	2.3
8	☐	1.000		13620782.58		A	0.8

89 Y(ISTD) [He]

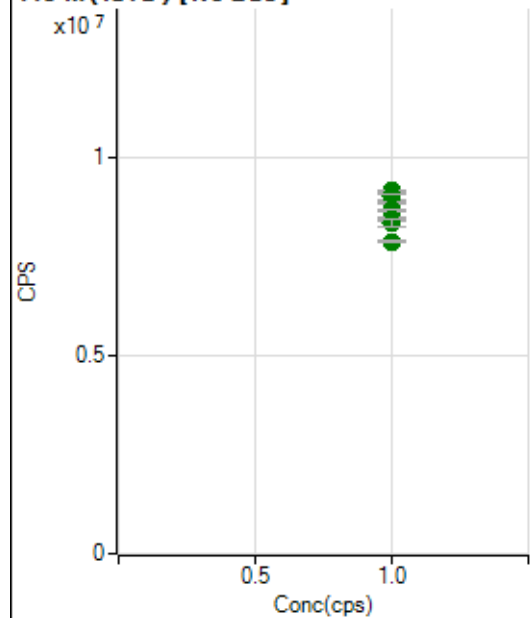
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4510002.64		A	0.7
2	☐	1.000		4480115.59		A	0.8
3	☐	1.000		4227939.94		A	5.4
4	☐	1.000		4305743.96		A	0.9
5	☐	1.000		4295560.70		A	3.8
6	☐	1.000		4114195.46		A	0.5
7	☐	1.000		4090905.32		A	0.9
8	☐	1.000		4051612.09		A	1.1

103 Rh(ISTD) [No Gas]

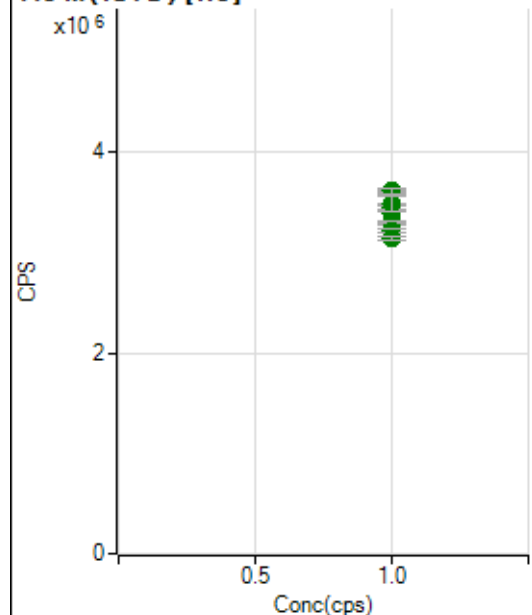
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8413067.16		A	0.4
2	☐	1.000		8466538.49		A	0.2
3	☐	1.000		8382614.95		A	1.9
4	☐	1.000		8015415.58		A	1.4
5	☐	1.000		7697090.79		A	1.6
6	☐	1.000		7472374.47		A	1.1
7	☐	1.000		7352039.20		A	2.5
8	☐	1.000		6709810.32		A	1.0

103 Rh (ISTD) [He]

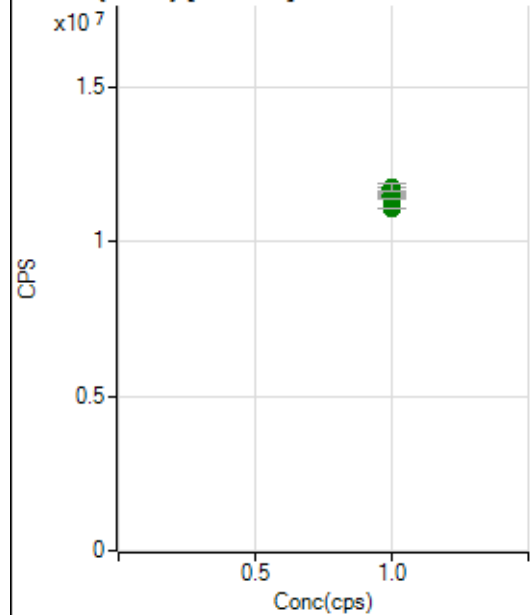
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5175248.60		A	0.8
2	☐	1.000		5164856.10		A	0.7
3	☐	1.000		4825097.19		A	5.5
4	☐	1.000		4882106.73		A	0.9
5	☐	1.000		4898751.04		A	5.2
6	☐	1.000		4653349.17		A	0.7
7	☐	1.000		4574835.31		A	0.4
8	☐	1.000		4200816.85		A	1.0

115 In (ISTD) [No Gas]

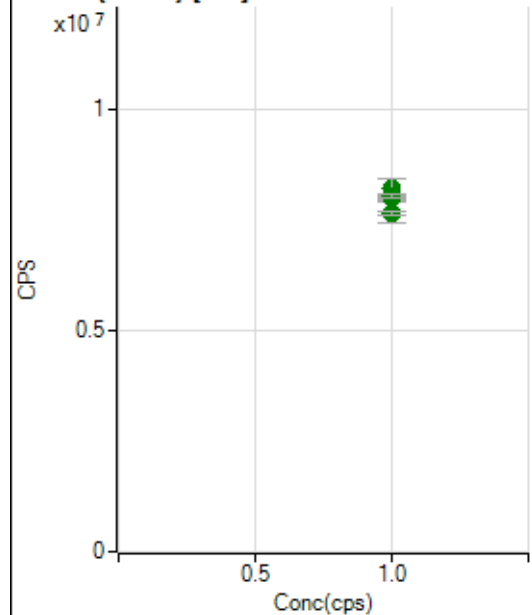
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9123721.66		A	0.6
2	☐	1.000		9153978.86		A	0.8
3	☐	1.000		9007518.99		A	1.3
4	☐	1.000		8849145.75		A	1.0
5	☐	1.000		8663568.67		A	0.6
6	☐	1.000		8445140.08		A	0.7
7	☐	1.000		8337642.20		A	2.2
8	☐	1.000		7877565.78		A	0.5

115 In (ISTD) [He]

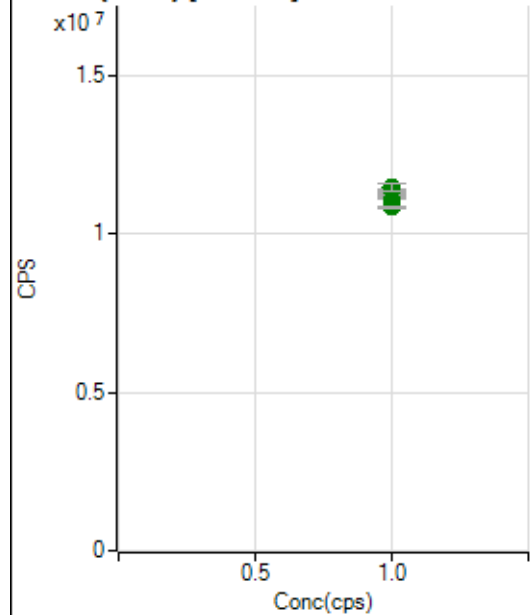
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3609434.91		A	0.3
2	☐	1.000		3612239.20		A	1.4
3	☐	1.000		3381949.02		A	6.5
4	☐	1.000		3446850.42		A	1.1
5	☐	1.000		3480772.23		A	4.6
6	☐	1.000		3300584.20		A	0.2
7	☐	1.000		3216215.11		A	0.8
8	☐	1.000		3143165.30		A	1.4

159 Tb (ISTD) [No Gas]

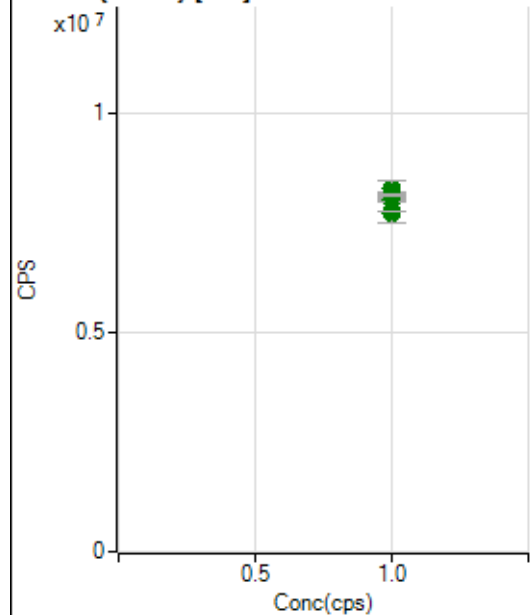
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11383731.50		A	0.7
2	☐	1.000		11474768.44		A	0.5
3	☐	1.000		11498383.72		A	1.4
4	☐	1.000		11500724.55		A	1.3
5	☐	1.000		11446590.38		A	1.4
6	☐	1.000		11677485.10		A	0.8
7	☐	1.000		11720941.08		A	2.2
8	☐	1.000		11062607.06		A	0.3

159 Tb (ISTD) [He]

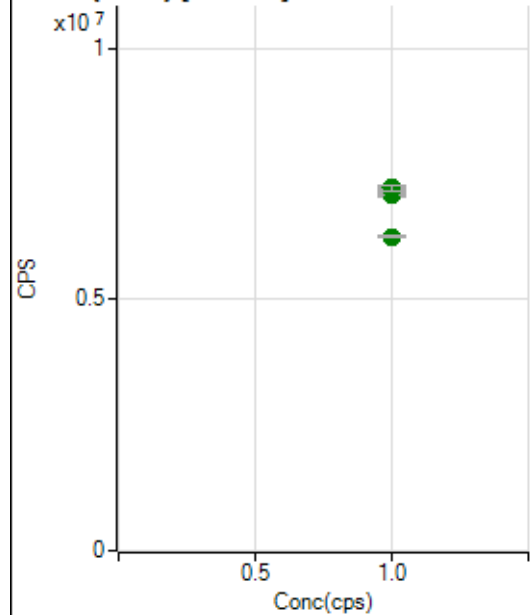
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8051903.01		A	0.7
2	☐	1.000		8024563.63		A	1.2
3	☐	1.000		7672182.04		A	6.0
4	☐	1.000		8023725.02		A	0.4
5	☐	1.000		8207808.35		A	5.7
6	☐	1.000		8062793.63		A	0.6
7	☐	1.000		8043534.67		A	1.5
8	☐	1.000		7659776.62		A	1.1

165 Ho (ISTD) [No Gas]

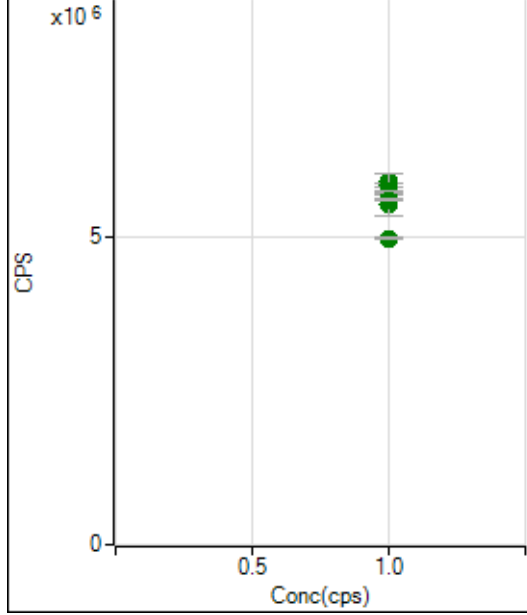
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11221726.78		A	0.5
2	☐	1.000		11183048.30		A	0.3
3	☐	1.000		11167835.94		A	0.7
4	☐	1.000		11190076.08		A	0.3
5	☐	1.000		11270642.75		A	0.4
6	☐	1.000		11416576.50		A	0.6
7	☐	1.000		11466947.19		A	2.0
8	☐	1.000		10850957.89		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8065015.02		A	1.0
2	☐	1.000		8040703.35		A	1.1
3	☐	1.000		7738631.13		A	6.1
4	☐	1.000		8029653.21		A	0.7
5	☐	1.000		8278959.18		A	4.9
6	☐	1.000		8184349.39		A	0.5
7	☐	1.000		8135929.46		A	0.4
8	☐	1.000		7768979.33		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7127041.42		A	0.7
2	☐	1.000		7102081.00		A	1.3
3	☐	1.000		7100998.78		A	0.7
4	☐	1.000		7089566.00		A	0.3
5	☐	1.000		7198787.46		A	0.6
6	☐	1.000		7180181.49		A	0.1
7	☐	1.000		7220993.78		A	1.4
8	☐	1.000		6255136.64		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5844349.43		A	1.0
2	☐	1.000		5722307.83		A	1.1
3	☐	1.000		5530546.17		A	6.1
4	☐	1.000		5727476.10		A	0.5
5	☐	1.000		5907035.26		A	5.1
6	☐	1.000		5753900.54		A	0.7
7	☐	1.000		5617776.10		A	0.3
8	☐	1.000		4992611.42		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7020425MS-4.b

Acq. Date-Time 2025-02-04 16:48:17

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		5678	56782.39			1.089	5.000
24		80174	801744.48			1.395	5.000
25		10306	103063.46			1.103	5.000
26		11771	117709.61			0.916	5.000
59		80922	809224.34			0.724	5.000
113		12012	120115.48			0.967	5.000
115		156996	1569961.10			0.789	5.000
206		33405	334051.29			0.895	5.000
207		28852	288515.17			0.837	5.000
208		68312	683116.77			0.644	5.000
220		0	3.00			52.705	

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

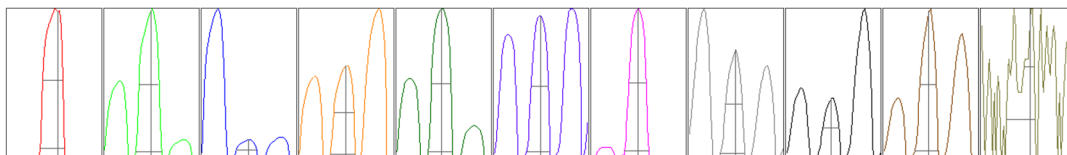
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5724	5573	5679	5695	5720
24	81187	78368	80882	79892	80544
25	10400	10117	10340	10382	10293
26	11880	11594	11829	11780	11772
59	81733	80226	81243	80830	80580
113	12166	11846	12056	11986	12005
115	158459	155916	158064	156835	155706
206	33765	32969	33503	33511	33278
207	29202	28522	28874	28833	28826
208	68526	67543	68528	68354	68608

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	1	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9267.91	9.15	8.90 - 9.10	Fail
24	134697.14	24.00	23.90 - 24.10	
25	17239.26	25.00	24.90 - 25.10	
26	19565.37	26.00	25.90 - 26.10	
59	137090.93	58.95	58.90 - 59.10	
113	22747.15	113.00	112.90 - 113.10	
115	296445.13	115.00	114.90 - 115.10	
206	66972.95	206.00	205.90 - 206.10	
207	56590.25	206.95	206.90 - 207.10	
208	137545.26	207.95	207.90 - 208.10	
220	0.45	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.769	0.900	
24	0.64	0.823	0.900	
25	0.63	0.756	0.900	
26	0.63	0.789	0.900	
59	0.61	0.776	0.900	
113	0.54	0.737	0.900	
115	0.54	0.766	0.900	
206	0.52	0.766	0.900	
207	0.51	0.732	0.900	
208	0.51	0.738	0.900	
220	0.33	0.901		

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	9.1 V	Deflect	15.4 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.16		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.2 mm
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EM

Discriminator	4.8 mV	Analog HV	2267 V	Pulse HV	1066 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		29355	293547.46			0.717	
89		73279	732788.59			1.438	
205		32619	326189.84			1.179	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	29687	29396	29340	29199	29153
89	74436	74391	72835	72413	72320
205	33252	32707	32430	32303	32402

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	8.8 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	139	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.16		
Hardware Settings					
Torch					
Torch H	0.1 mm	Torch V	0.2 mm		
EM					
Discriminator	4.8 mV	Analog HV	2267 V	Pulse HV	1066 V