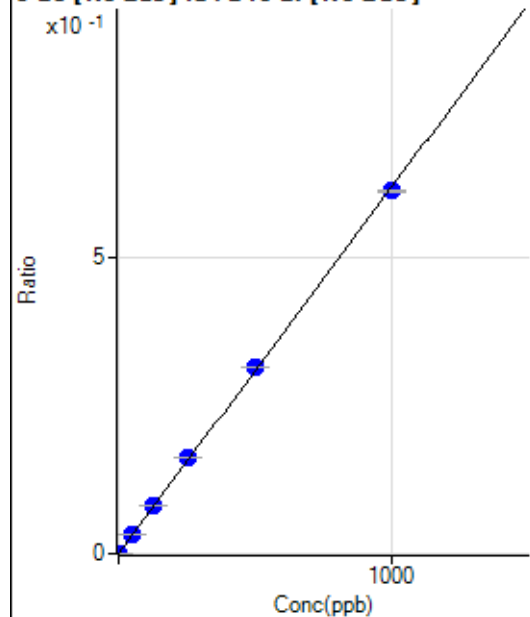


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7112423-MS.b\
 Analysis File: P7112423-MS.batch.bin
 DA Date-Time: 2023-11-24 08:58:13
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-11-24 08:28:51
2	005CALS.d	S02	2023-11-24 08:32:09
3	007CALS.d	S03	2023-11-24 08:38:47
4	008CALS.d	S04	2023-11-24 08:42:04
5	009CALS.d	S05	2023-11-24 08:45:10
6	010CALS.d	S06	2023-11-24 08:48:11
7	011CALS.d	S07	2023-11-24 08:51:03
8	012CALS.d	S08	2023-11-24 08:53:54

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	73.33	0.0001	P	16.3
2	☐	1.000	1.090	713.36	0.0008	P	6.3
3	☐	50.000	53.755	31298.20	0.0333	P	2.5
4	☐	125.000	132.752	75647.03	0.0822	P	0.9
5	☐	250.000	261.836	145368.40	0.1621	P	0.2
6	☐	500.000	510.784	278074.88	0.3162	P	0.2
7	☐	1000.000	990.492	531780.62	0.6131	P	0.8
8	☐			453.35	0.0006	P	7.4

$$y = 6.1894\text{E-}004 * x + 7.7608\text{E-}005$$

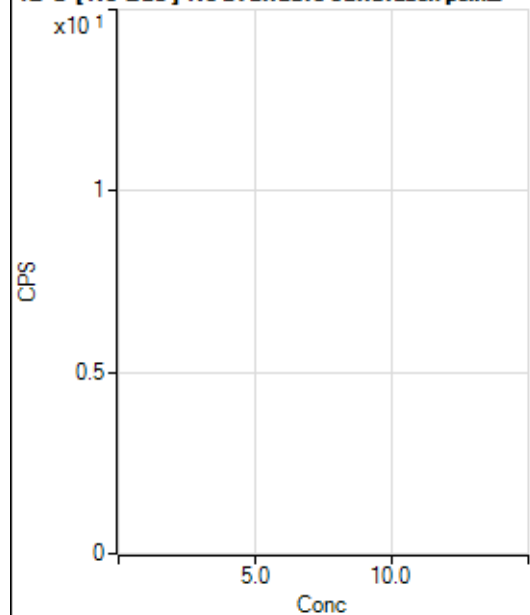
$$R = 0.9998$$

$$DL = 0.06125$$

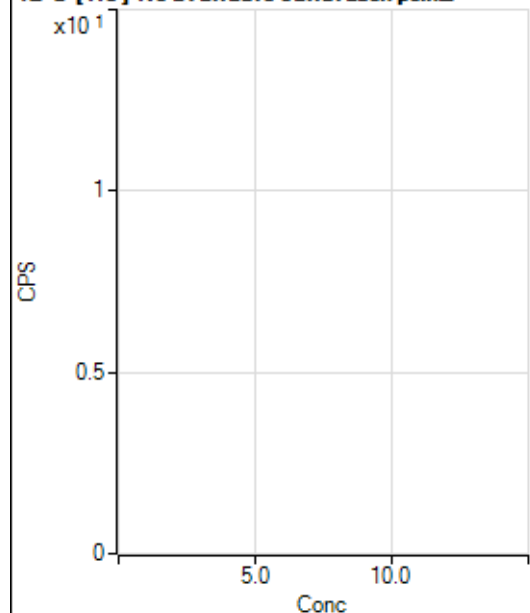
$$BEC = 0.1254$$

Weight: <None>

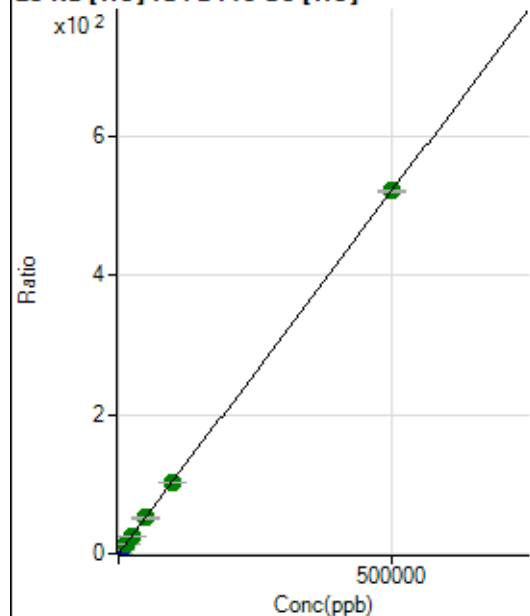
Min Conc: 0

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	7159.49	0.0363	P	3.2
2	☐	500.000	533.627	112735.44	0.5931	P	5.0
3	☐	5000.000	5247.256	1066148.17	5.5115	P	0.6
4	☐	12500.000	13058.398	2431336.53	13.6620	A	8.7
5	☐	25000.000	24923.900	4680398.19	26.0430	A	0.2
6	☐	50000.000	49329.464	9152567.02	51.5089	A	3.7
7	☐	100000.00	97964.389	17808549.18	102.2568	A	0.7
8	☐	500000.00	500461.51	84584683.74	522.2406	A	0.8

$$y = 0.0010 * x + 0.0363$$

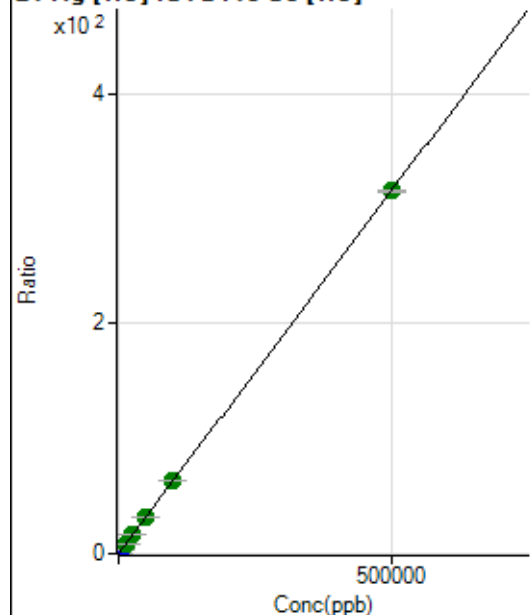
$$R = 1.0000$$

$$DL = 3.292$$

$$BEC = 34.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	642.25	0.0033	P	3.9
2	☐	500.000	549.891	66609.87	0.3504	P	4.4
3	☐	5000.000	5428.247	663451.91	3.4298	P	0.6
4	☐	12500.000	13646.287	1532219.47	8.6173	A	10.3
5	☐	25000.000	25868.343	2935246.93	16.3324	A	0.5
6	☐	50000.000	50642.794	5680851.02	31.9710	A	3.8
7	☐	100000.00	100304.14	11027363.59	63.3191	A	0.5
8	☐	500000.00	499798.48	51099185.35	315.4955	A	0.2

$$y = 6.3124\text{E-}004 * x + 0.0033$$

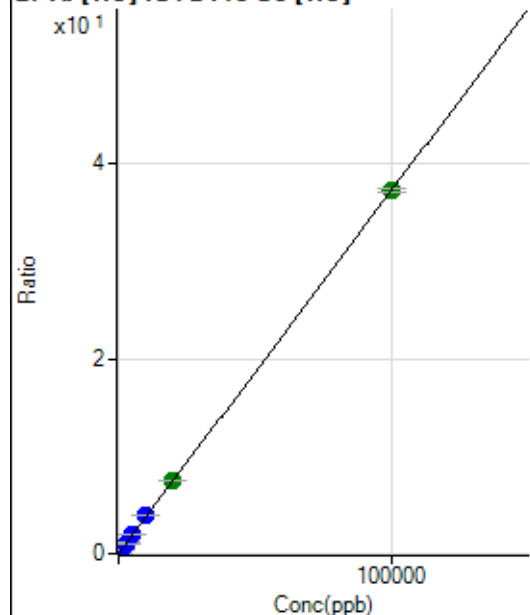
$$R = 1.0000$$

$$DL = 0.611$$

$$BEC = 5.161$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	148.89	0.0008	P	23.7
2	☐	20.000	21.268	1647.88	0.0087	P	9.5
3	☐	1000.000	1078.677	77930.77	0.4029	P	0.8
4	☐	2500.000	2809.017	186361.01	1.0479	P	9.9
5	☐	5000.000	5351.281	358639.47	1.9956	P	0.7
6	☐	10000.000	10545.926	698743.55	3.9320	P	3.3
7	☐	20000.000	20153.655	1308564.05	7.5136	A	2.0
8	☐	100000.00	99888.600	6030908.24	37.2370	A	0.9

$$y = 3.7278\text{E-}004 * x + 7.5484\text{E-}004$$

$$R = 1.0000$$

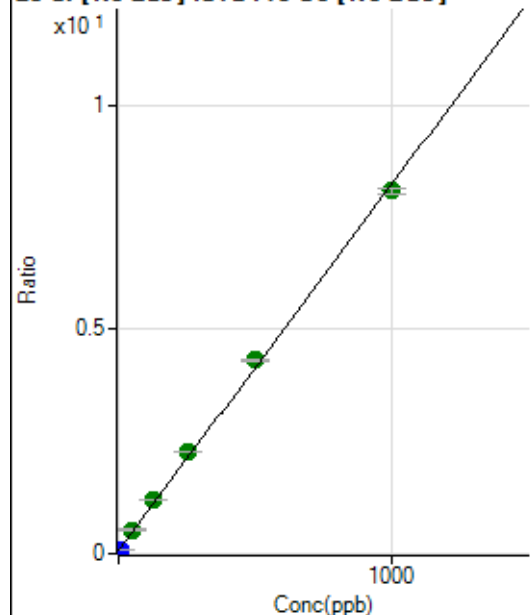
$$DL = 1.441$$

$$BEC = 2.025$$

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	153485.62	0.0687	P	1.0
2	☐	10.000	0.455	163407.59	0.0724	P	0.7
3	☐	50.000	56.688	1190903.38	0.5308	A	2.9
4	☐	125.000	139.204	2609934.48	1.2036	A	2.1
5	☐	250.000	269.034	4732437.71	2.2621	A	0.0
6	☐	500.000	520.665	8899936.47	4.3136	A	0.6
7	☐	1000.000	982.894	16505966.56	8.0821	A	1.3
8	☐			307188.92	0.1592	P	4.7

$$y = 0.0082 * x + 0.0687$$

$$R = 0.9993$$

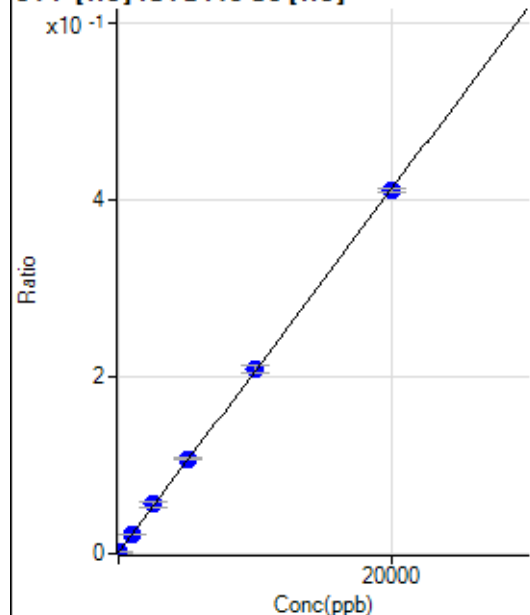
$$DL = 0.2514$$

$$BEC = 8.42$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.850	176.67	0.0009	P	21.3
2	☐	0.000	15.850	294.45	0.0015	P	4.0
3	☐	1000.000	1020.378	4289.53	0.0222	P	3.6
4	☐	2500.000	2680.490	9999.99	0.0563	P	11.2
5	☐	5000.000	5151.602	19232.17	0.1070	P	1.8
6	☐	10000.000	10082.828	37006.91	0.2083	P	4.0
7	☐	20000.000	19897.105	71375.11	0.4098	P	1.2
8	☐			176.67	0.0011	P	22.1

$$y = 2.0536E-005 * x + 0.0012$$

$$R = 0.9999$$

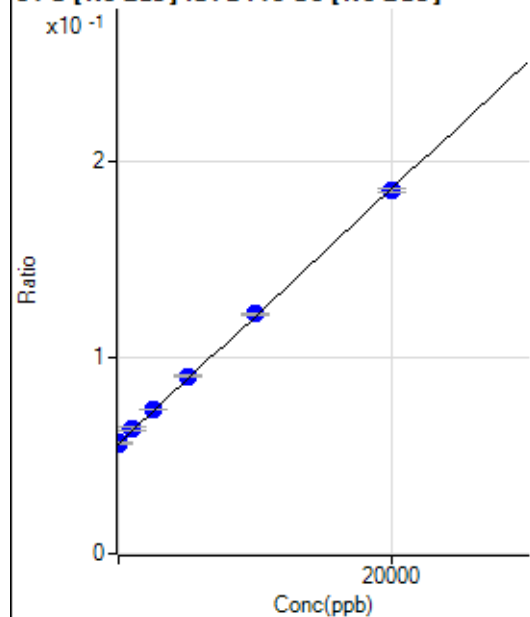
$$DL = 18.49$$

$$BEC = 59.49$$

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	-43.806	125029.28	0.0559	P	1.2
2	☐	0.000	43.806	127571.49	0.0565	P	0.6
3	☐	1000.000	1150.620	142921.80	0.0637	P	2.0
4	☐	2500.000	2724.219	160327.49	0.0739	P	0.2
5	☐	5000.000	5270.483	189312.35	0.0905	P	0.8
6	☐	10000.000	10149.447	252190.15	0.1222	P	0.3
7	☐	20000.000	19822.097	378136.34	0.1852	P	0.9
8	☐			110531.39	0.0573	P	1.0

$$y = 6.5050E-006 * x + 0.0562$$

R = 0.9998

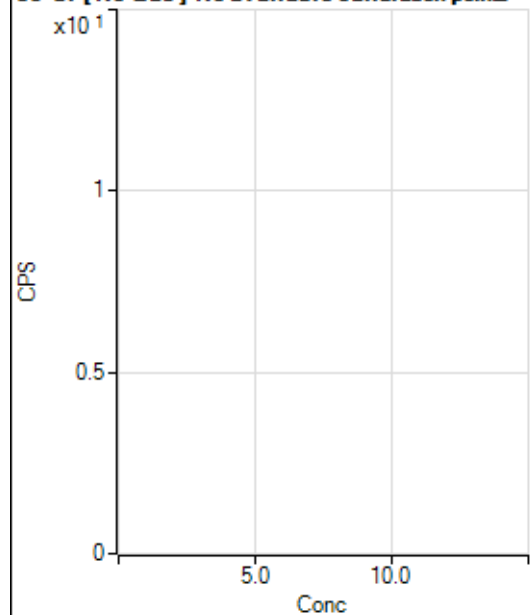
DL = 222.8

BEC = 8641

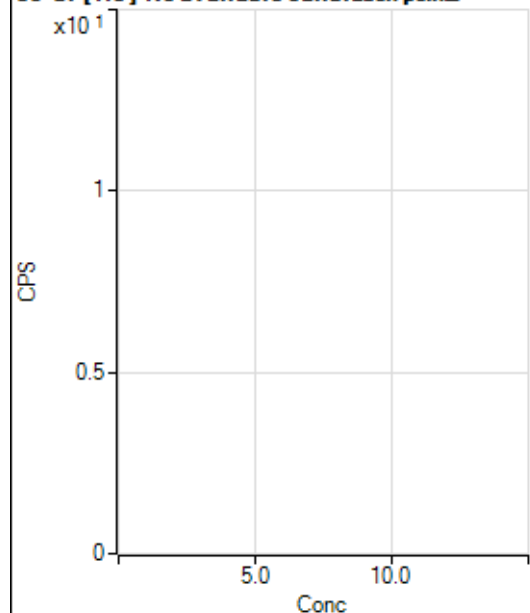
Weight: <None>

Min Conc: 0

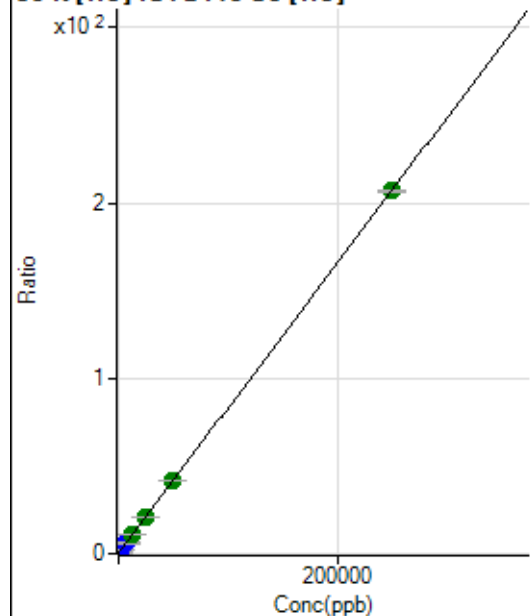
35 Cl [No Gas] No available calibration points



	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	42785.48	0.2170	P	1.1
2	☐	500.000	559.665	129138.49	0.6795	P	5.4
3	☐	2500.000	2734.854	479152.57	2.4770	P	0.3
4	☐	6250.000	7206.164	1097780.90	6.1720	P	9.7
5	☐	12500.000	12766.139	1934894.07	10.7665	A	1.0
6	☐	25000.000	25046.526	3716929.80	20.9147	A	2.9
7	☐	50000.000	49667.459	7185685.66	41.2606	A	0.7
8	☐	250000.00	250022.17	33498114.50	206.8274	A	0.6

$$y = 8.2637E-004 * x + 0.2170$$

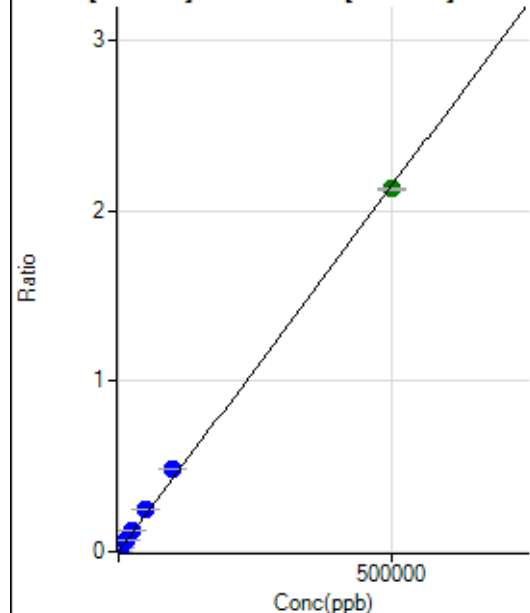
$$R = 1.0000$$

$$DL = 8.943$$

$$BEC = 262.6$$

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	361.12	0.0002	P	10.4
2	☐	500.000	528.903	5492.15	0.0024	P	3.2
3	☐	5000.000	5828.769	56520.33	0.0252	P	1.8
4	☐	12500.000	14572.061	136035.06	0.0627	P	0.8
5	☐	25000.000	28994.825	260782.72	0.1247	P	1.0
6	☐	50000.000	57398.003	508827.28	0.2466	P	0.8
7	☐	100000.00	113671.47	997127.55	0.4882	P	1.1
8	☐	500000.00	496266.04	4113510.18	2.1310	A	0.9

$$y = 4.2937\text{E-}006 * x + 1.6147\text{E-}004$$

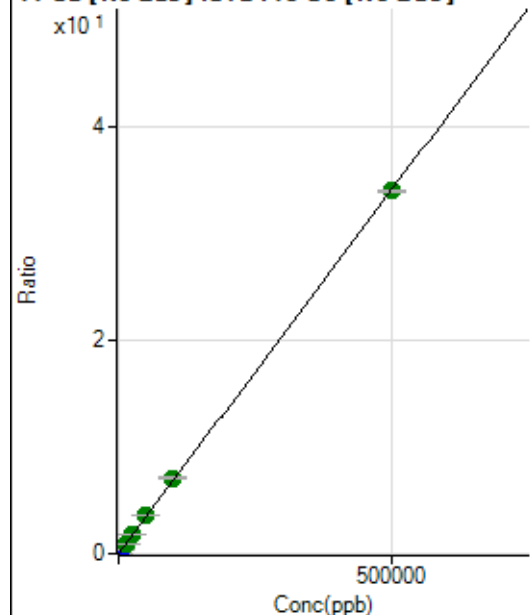
$$R = 0.9995$$

$$DL = 11.7$$

$$BEC = 37.61$$

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	7140.69	0.0032	P	3.4
2	☐	500.000	529.778	88884.97	0.0394	P	1.6
3	☐	5000.000	5629.656	869476.72	0.3875	P	2.6
4	☐	12500.000	13254.966	1969070.13	0.9081	A	2.2
5	☐	25000.000	26441.520	3783136.02	1.8084	A	1.0
6	☐	50000.000	52318.603	7376236.90	3.5751	A	0.2
7	☐	100000.00	103963.72	14501851.04	7.1010	A	1.9
8	☐	500000.00	498878.11	65750553.46	34.0625	A	0.6

$$y = 6.8272\text{E-}005 * x + 0.0032$$

$$R = 1.0000$$

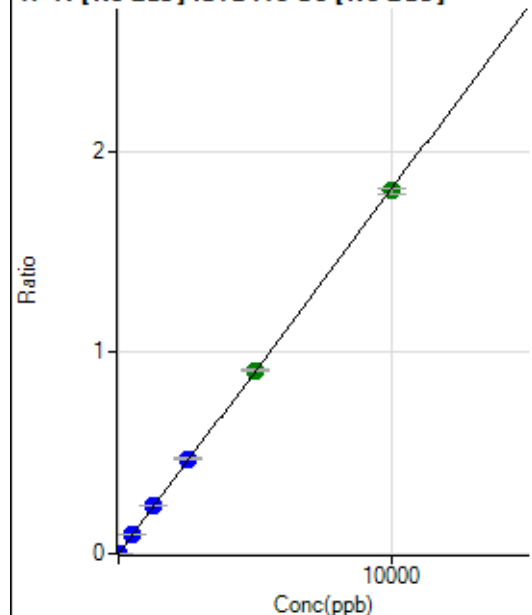
$$DL = 4.78$$

$$BEC = 46.79$$

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	96.66	0.0000	P	5.1
2	☐	5.000	5.237	2241.30	0.0010	P	5.2
3	☐	500.000	519.465	211401.52	0.0942	P	2.2
4	☐	1250.000	1310.653	515363.45	0.2377	P	0.8
5	☐	2500.000	2607.237	988921.17	0.4727	P	0.6
6	☐	5000.000	5033.158	1882743.12	0.9125	A	0.6
7	☐	10000.000	9948.057	3683259.63	1.8035	A	1.9
8	☐			806.70	0.0004	P	16.6

$$y = 1.8129E-004 * x + 4.3222E-005$$

$$R = 0.9999$$

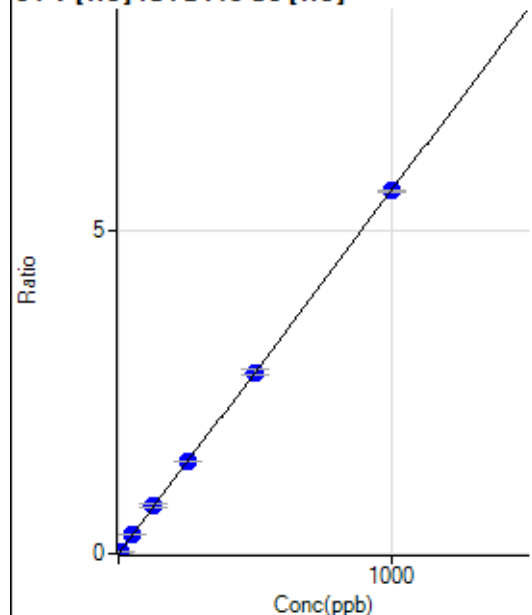
$$DL = 0.03679$$

$$BEC = 0.2384$$

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	16.67	0.0001	P	80.0
2	☐	5.000	5.218	5589.97	0.0294	P	3.2
3	☐	50.000	50.451	54823.49	0.2834	P	0.6
4	☐	125.000	132.040	131968.39	0.7416	P	8.8
5	☐	250.000	252.434	254788.85	1.4177	P	0.7
6	☐	500.000	499.149	498188.47	2.8033	P	3.0
7	☐	1000.000	998.913	976987.77	5.6099	P	0.6
8	☐			260.01	0.0016	P	10.8

$$y = 0.0056 * x + 8.4431E-005$$

$$R = 1.0000$$

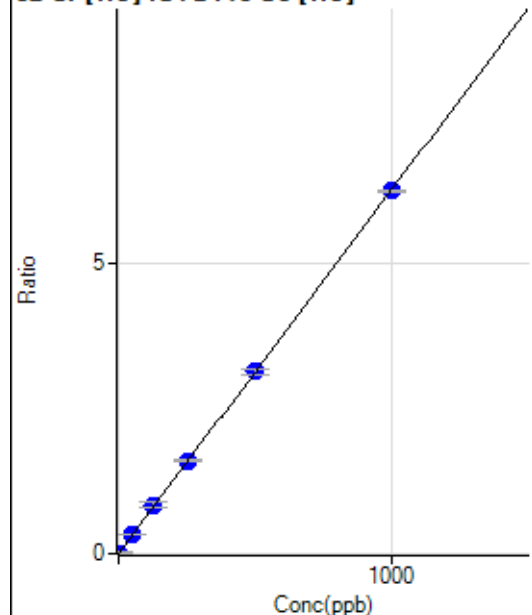
$$DL = 0.03609$$

$$BEC = 0.01503$$

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	493.35	0.0025	P	5.6
2	☐	2.000	2.211	3107.02	0.0164	P	6.4
3	☐	50.000	50.847	62082.43	0.3209	P	0.9
4	☐	125.000	134.015	149711.81	0.8418	P	9.9
5	☐	250.000	255.260	287748.12	1.6011	P	0.7
6	☐	500.000	499.855	556738.54	3.1330	P	3.3
7	☐	1000.000	997.588	1088473.22	6.2501	P	0.5
8	☐			3153.69	0.0195	P	4.3

$$y = 0.0063 * x + 0.0025$$

$$R = 1.0000$$

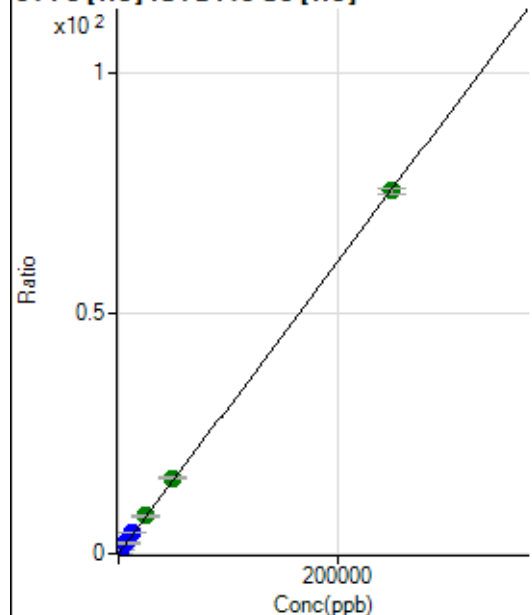
$$DL = 0.0672$$

$$BEC = 0.3996$$

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	915.59	0.0046	P	3.8
2	☐	50.000	60.053	4337.33	0.0228	P	3.9
3	☐	2500.000	2843.745	167309.74	0.8649	P	0.3
4	☐	6250.000	7513.557	405199.75	2.2776	P	9.2
5	☐	12500.000	14230.480	774501.27	4.3096	P	0.4
6	☐	25000.000	26165.984	1407383.66	7.9202	A	3.5
7	☐	50000.000	52075.087	2744374.51	15.7581	A	0.8
8	☐	250000.00	249346.83	12217438.29	75.4355	A	1.4

$$y = 3.0251E-004 * x + 0.0046$$

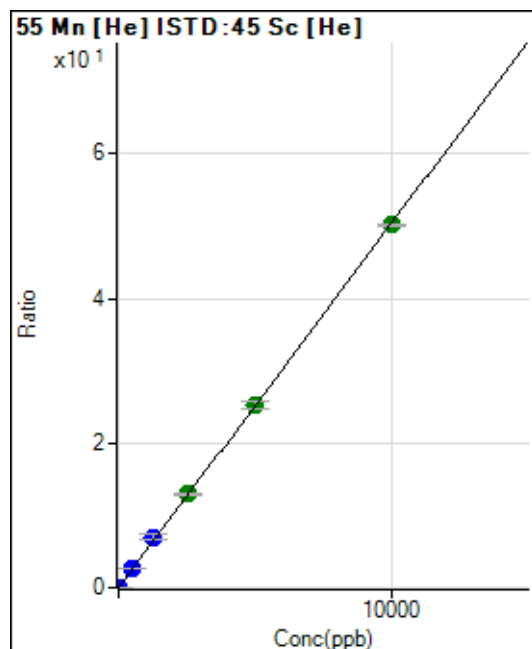
$$R = 0.9999$$

$$DL = 1.731$$

$$BEC = 15.35$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0010	P	17.0
2	☐	1.000	1.099	1237.84	0.0065	P	10.9
3	☐	500.000	524.688	511299.75	2.6432	P	0.6
4	☐	1250.000	1389.336	1245054.17	6.9974	P	9.0
5	☐	2500.000	2563.282	2319960.99	12.9092	A	1.1
6	☐	5000.000	5014.985	4487917.26	25.2555	A	3.3
7	☐	10000.000	9958.035	8733320.08	50.1477	A	0.8
8	☐			4630.76	0.0286	P	2.0

$$y = 0.0050 * x + 9.8656E-004$$

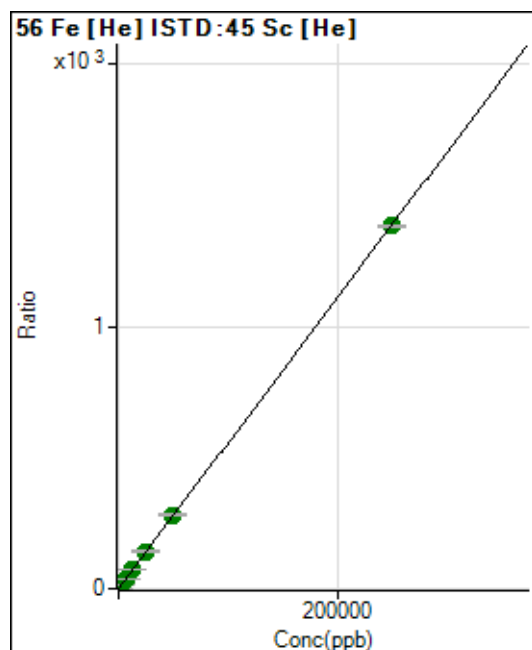
$$R = 0.9999$$

$$DL = 0.09971$$

$$BEC = 0.1959$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7286.28	0.0370	P	1.3
2	☐	50.000	58.055	68081.83	0.3583	P	5.8
3	☐	2500.000	2611.655	2803361.83	14.4921	A	0.6
4	☐	6250.000	6838.094	6740857.05	37.8849	A	9.0
5	☐	12500.000	13132.542	13069842.86	72.7237	A	0.0
6	☐	25000.000	25547.928	25131985.46	141.4412	A	3.8
7	☐	50000.000	50822.357	48995082.05	281.3316	A	1.0
8	☐	250000.00	249733.28	223877474.4	1,382.275	A	0.3

$$y = 0.0055 * x + 0.0370$$

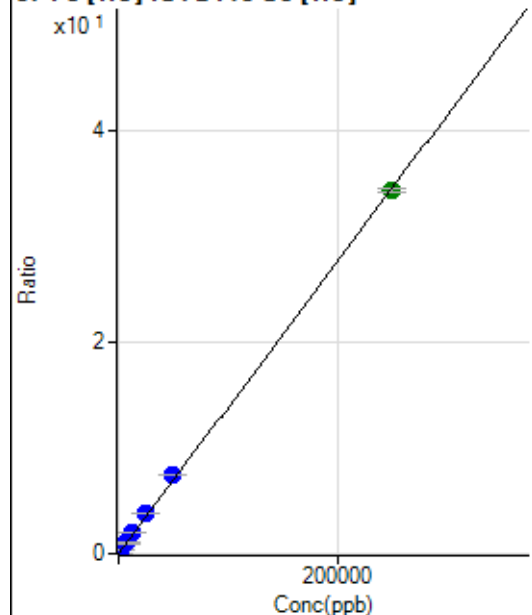
$$R = 1.0000$$

$$DL = 0.2579$$

$$BEC = 6.677$$

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	381.12	0.0019	P	10.2
2	☐	50.000	62.382	2002.38	0.0106	P	9.4
3	☐	2500.000	2822.108	75793.97	0.3918	P	1.0
4	☐	6250.000	7362.876	181272.45	1.0191	P	9.7
5	☐	12500.000	14082.951	350006.41	1.9476	P	0.7
6	☐	25000.000	27518.436	675928.94	3.8037	P	3.3
7	☐	50000.000	54453.499	1310484.02	7.5249	P	0.4
8	☐	250000.00	248747.26	5566129.43	34.3675	A	1.2

$$y = 1.3815E-004 * x + 0.0019$$

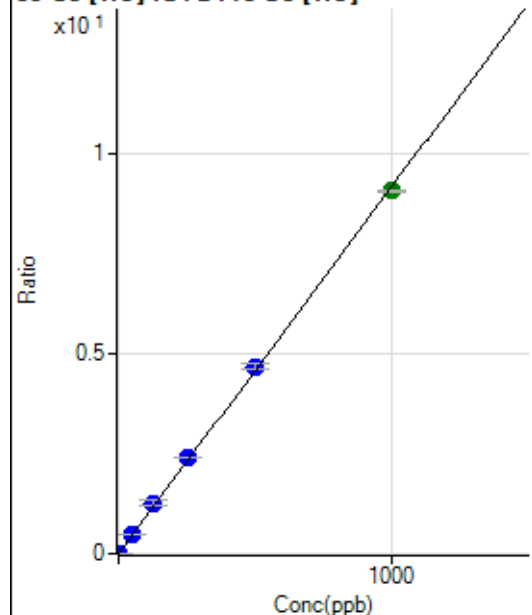
R = 0.9998

DL = 4.296

BEC = 13.99

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	43.33	0.0002	P	23.4
2	☐	1.000	1.155	2051.27	0.0108	P	3.8
3	☐	50.000	52.595	93069.37	0.4811	P	0.3
4	☐	125.000	138.370	225142.21	1.2654	P	9.1
5	☐	250.000	261.621	429956.97	2.3924	P	0.0
6	☐	500.000	511.270	830715.30	4.6751	P	3.6
7	☐	1000.000	989.658	1575961.82	9.0493	A	0.3
8	☐			4457.37	0.0275	P	3.5

$$y = 0.0091 * x + 2.1990E-004$$

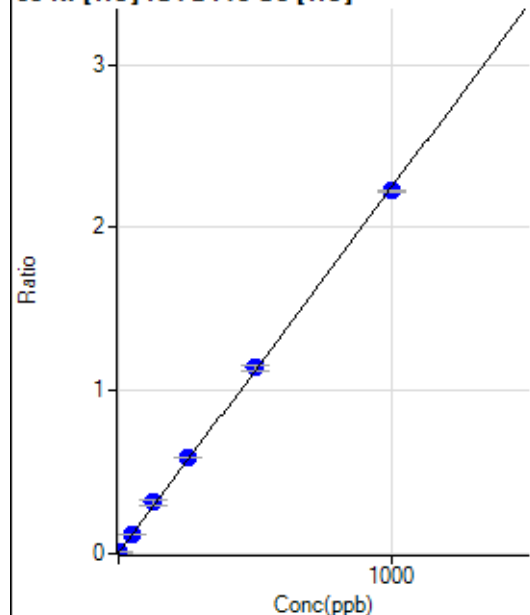
R = 0.9998

DL = 0.01691

BEC = 0.02405

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	716.69	0.0036	P	4.1
2	☐	1.000	1.200	1201.17	0.0063	P	8.2
3	☐	50.000	52.714	23564.13	0.1218	P	2.1
4	☐	125.000	139.275	56165.68	0.3159	P	10.4
5	☐	250.000	262.884	106580.68	0.5930	P	0.6
6	☐	500.000	507.992	203043.79	1.1426	P	3.2
7	☐	1000.000	990.863	387520.64	2.2252	P	0.3
8	☐			1750.12	0.0108	P	2.9

$$y = 0.0022 * x + 0.0036$$

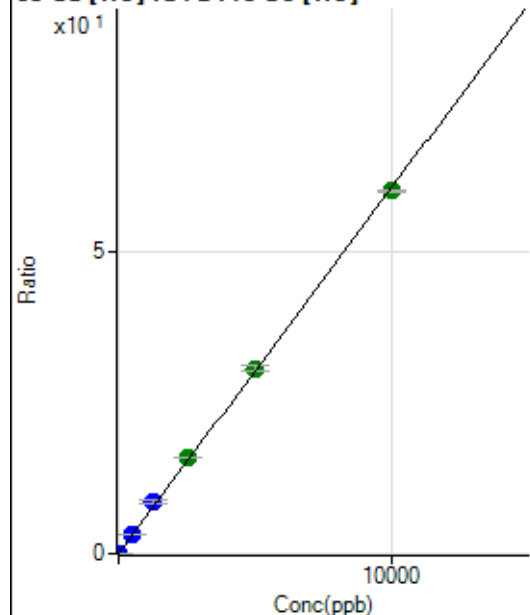
$$R = 0.9998$$

$$DL = 0.2009$$

$$BEC = 1.621$$

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	922.26	0.0047	P	9.4
2	☐	2.000	2.233	3461.54	0.0182	P	7.8
3	☐	500.000	538.989	633664.51	3.2758	P	0.8
4	☐	1250.000	1406.478	1519525.22	8.5406	P	9.1
5	☐	2500.000	2626.812	2865957.56	15.9468	A	0.4
6	☐	5000.000	5058.765	5457196.73	30.7063	A	2.8
7	☐	10000.000	9917.405	10482859.08	60.1934	A	0.2
8	☐			4032.81	0.0249	P	2.5

$$y = 0.0061 * x + 0.0047$$

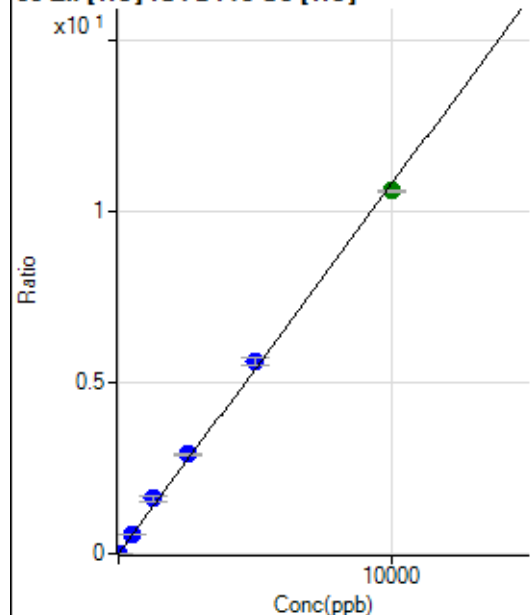
$$R = 0.9998$$

$$DL = 0.218$$

$$BEC = 0.7707$$

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	206.67	0.0010	P	21.7
2	☐	2.000	2.130	636.69	0.0034	P	7.9
3	☐	500.000	537.696	112630.26	0.5823	P	0.9
4	☐	1250.000	1485.581	285906.50	1.6068	P	9.0
5	☐	2500.000	2684.387	521658.08	2.9027	P	0.4
6	☐	5000.000	5206.776	1000365.11	5.6292	P	3.1
7	☐	10000.000	9819.183	1848593.06	10.6148	A	0.5
8	☐			2071.27	0.0128	P	3.7

$$y = 0.0011 * x + 0.0010$$

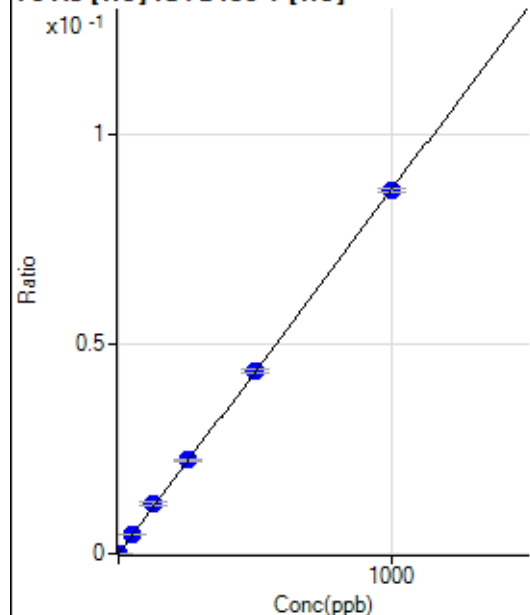
$$R = 0.9993$$

$$DL = 0.6312$$

$$BEC = 0.9702$$

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	2.22	0.0000	P	173.
2	☐	1.000	1.089	161.11	0.0001	P	7.0
3	☐	50.000	52.867	7819.91	0.0046	P	1.8
4	☐	125.000	137.587	18647.35	0.0119	P	9.7
5	☐	250.000	256.924	36201.86	0.0223	P	1.3
6	☐	500.000	499.961	69665.73	0.0434	P	2.2
7	☐	1000.000	996.571	135822.23	0.0865	P	1.1
8	☐			77.78	0.0001	P	20.6

$$y = 8.6783E-005 * x + 1.2536E-006$$

$$R = 0.9999$$

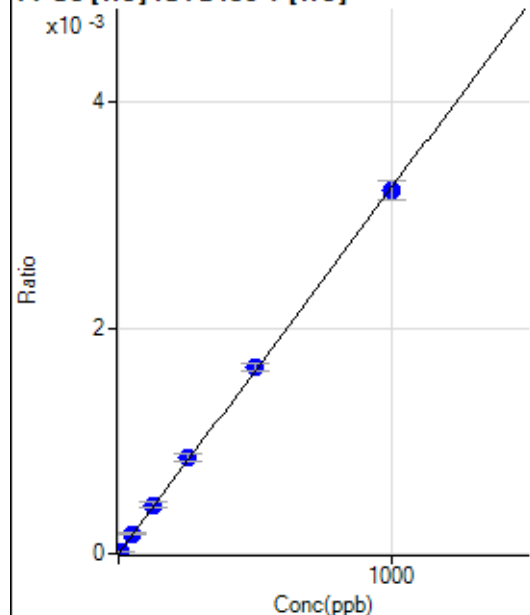
$$DL = 0.07506$$

$$BEC = 0.01445$$

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	5.302	28.89	0.0000	P	24.4
3	☐	50.000	54.141	298.90	0.0002	P	6.7
4	☐	125.000	133.379	674.47	0.0004	P	12.1
5	☐	250.000	261.349	1375.63	0.0008	P	7.8
6	☐	500.000	508.599	2648.05	0.0016	P	4.3
7	☐	1000.000	991.607	5046.46	0.0032	P	5.2
8	☐			23.33	0.0000	P	13.9

$$y = 3.2413\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

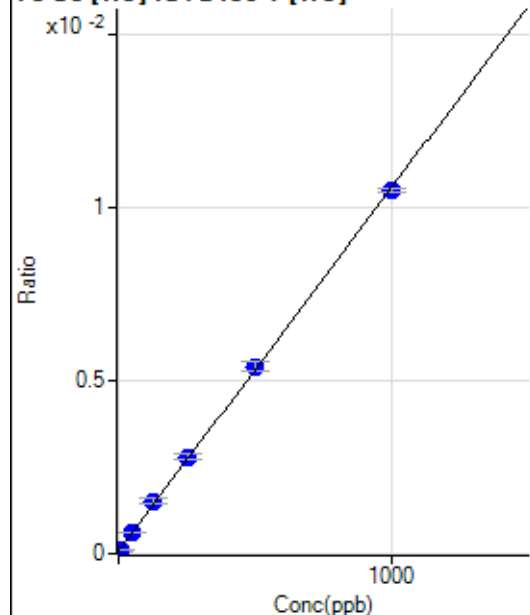
$$DL = 0$$

$$BEC = 0$$

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	125.56	0.0001	P	5.8
2	☐	5.000	5.792	223.34	0.0001	P	6.7
3	☐	50.000	51.362	1040.05	0.0006	P	7.2
4	☐	125.000	137.827	2370.22	0.0015	P	9.5
5	☐	250.000	260.331	4548.51	0.0028	P	4.4
6	☐	500.000	508.667	8674.84	0.0054	P	5.3
7	☐	1000.000	991.408	16438.12	0.0105	P	0.9
8	☐			172.23	0.0001	P	15.9

$$y = 1.0485\text{E-}005 * x + 7.2106\text{E-}005$$

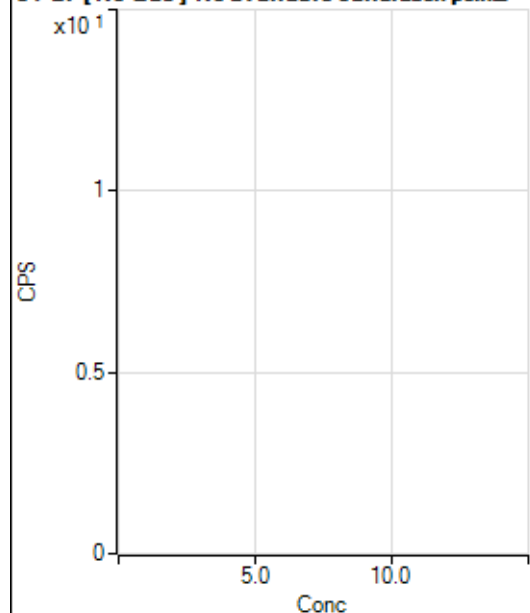
$$R = 0.9998$$

$$DL = 1.191$$

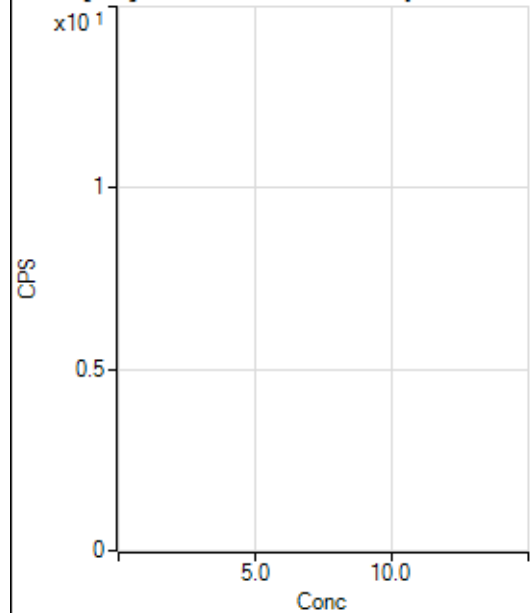
$$BEC = 6.877$$

Weight: <None>

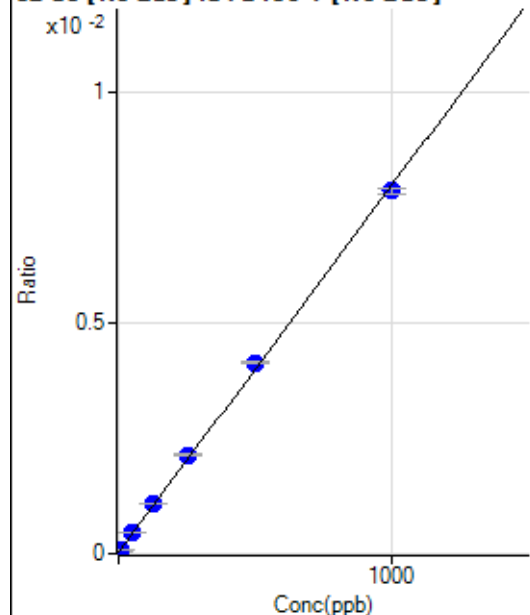
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22233.53		P	0.0
2	☐			22392.64		P	2.0
3	☐			22444.98		P	0.9
4	☐			20989.45		P	0.4
5	☐			20292.96		P	2.4
6	☐			19909.10		P	1.8
7	☐			19871.24		P	1.5
8	☐			19973.62		P	1.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	24.8
2	☐			46.67		P	7.1
3	☐			60.00		P	20.0
4	☐			37.78		P	22.2
5	☐			40.00		P	22.0
6	☐			52.22		P	22.4
7	☐			63.34		P	39.7
8	☐			298.89		P	5.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	191.57	0.0000	P	15.9
2	☐	5.000	5.109	469.56	0.0001	P	13.4
3	☐	50.000	52.546	3071.94	0.0004	P	3.2
4	☐	125.000	134.267	7296.11	0.0011	P	1.6
5	☐	250.000	266.035	13820.15	0.0021	P	0.5
6	☐	500.000	517.459	26729.39	0.0041	P	1.0
7	☐	1000.000	985.975	51033.80	0.0079	P	1.6
8	☐			465.08	0.0001	P	8.9

$$y = 7.9522\text{E-}006 * x + 2.7647\text{E-}005$$

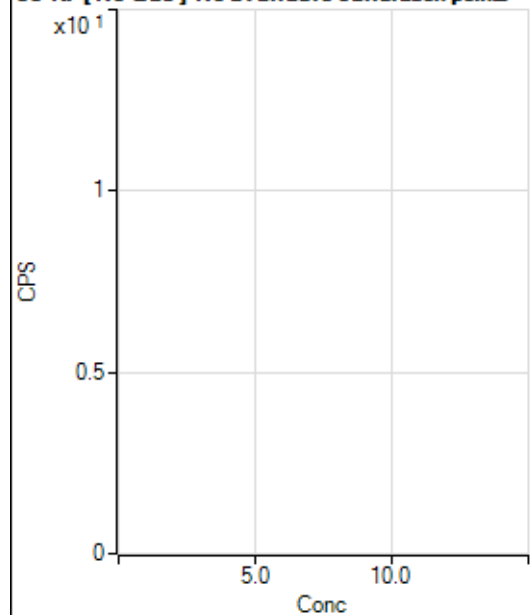
$$R = 0.9996$$

$$DL = 1.655$$

$$BEC = 3.477$$

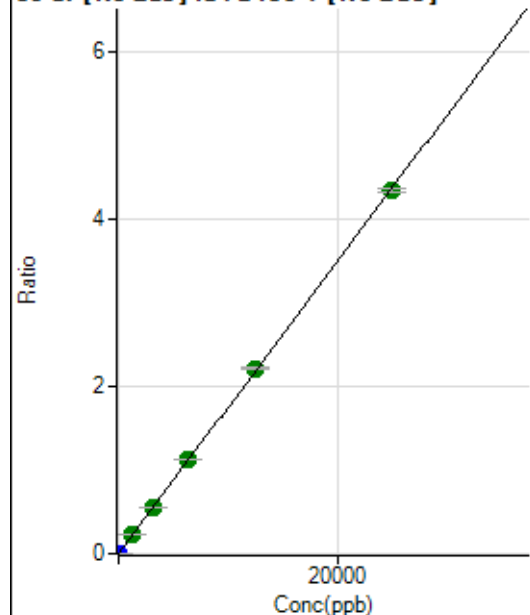
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			38.89		P	19.8
2	☐			55.55		P	48.1
3	☐			44.44		P	42.7
4	☐			52.22		P	47.9
5	☐			37.78		P	31.0
6	☐			51.11		P	22.9
7	☐			50.00		P	13.3
8	☐			74.44		P	13.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.56	0.0000	P	21.4
2	☐	1.000	0.982	1281.18	0.0002	P	2.4
3	☐	1250.000	1261.096	1515422.13	0.2197	A	1.2
4	☐	3125.000	3203.450	3717865.57	0.5581	A	0.7
5	☐	6250.000	6417.414	7209710.51	1.1181	A	0.0
6	☐	12500.000	12673.166	14246940.07	2.2080	A	0.9
7	☐	25000.000	24861.202	28094199.86	4.3314	A	1.2
8	☐			6034.65	0.0010	P	15.1

$$y = 1.7422\text{E-}004 * x + 1.5225\text{E-}005$$

$$R = 0.9999$$

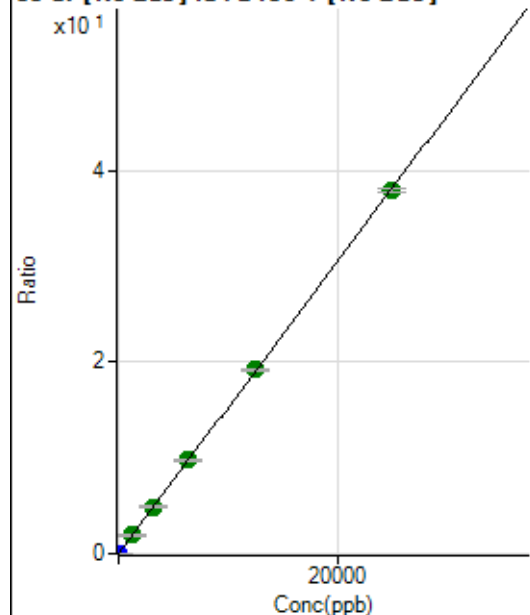
$$DL = 0.05606$$

$$BEC = 0.08739$$

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	300.01	0.0000	P	20.1
2	☐	1.000	1.003	10809.61	0.0016	P	3.3
3	☐	1250.000	1262.861	13273671.33	1.9247	A	1.8
4	☐	3125.000	3218.402	32672226.18	4.9050	A	1.0
5	☐	6250.000	6424.397	63133179.61	9.7910	A	0.9
6	☐	12500.000	12625.719	124153982.6	19.2420	A	1.4
7	☐	25000.000	24881.223	245955271.8	37.9197	A	0.9
8	☐			51751.08	0.0087	P	14.9

$$y = 0.0015 * x + 4.3305\text{E-}005$$

$$R = 1.0000$$

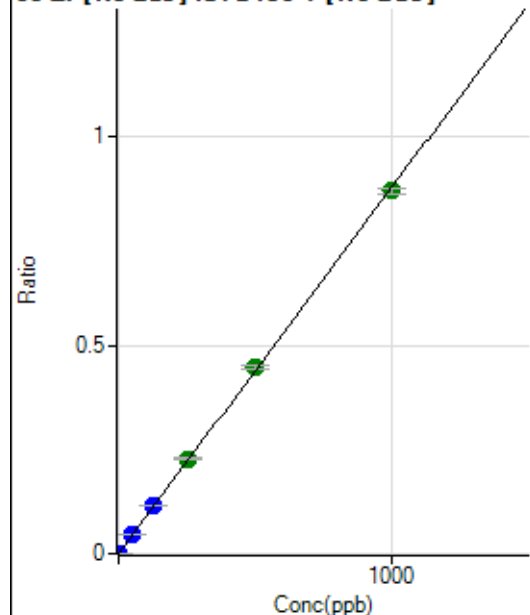
$$DL = 0.01717$$

$$BEC = 0.02841$$

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	255.56	0.0000	P	10.4
2	☐	1.000	0.974	6132.44	0.0009	P	1.2
3	☐	50.000	51.508	312221.38	0.0453	P	1.5
4	☐	125.000	130.733	765027.96	0.1148	P	0.8
5	☐	250.000	259.897	1472020.13	0.2283	A	0.5
6	☐	500.000	510.484	2892763.88	0.4484	A	2.2
7	☐	1000.000	991.492	5647815.47	0.8708	A	1.7
8	☐			3042.57	0.0005	P	7.1

$$y = 8.7822\text{E-}004 * x + 3.6880\text{E-}005$$

$$R = 0.9999$$

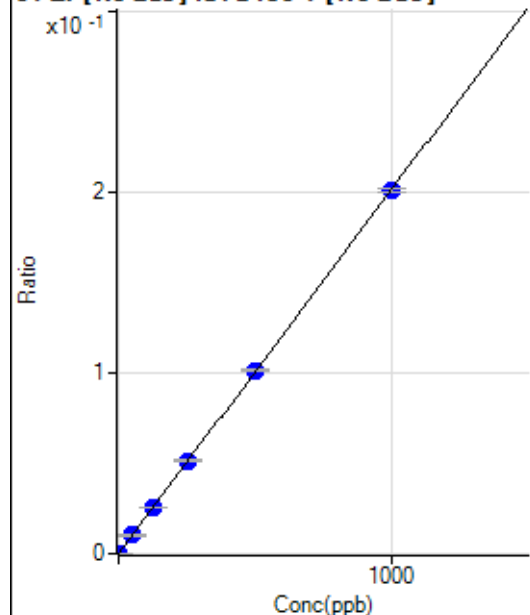
$$DL = 0.01306$$

$$BEC = 0.04199$$

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	50.00	0.0000	P	23.5
2	☐	1.000	0.950	1363.41	0.0002	P	3.1
3	☐	50.000	50.389	69976.68	0.0101	P	1.6
4	☐	125.000	127.241	170598.23	0.0256	P	1.1
5	☐	250.000	255.560	331642.90	0.0514	P	0.9
6	☐	500.000	503.794	654138.79	0.1014	P	1.6
7	☐	1000.000	996.414	1300528.75	0.2005	P	1.1
8	☐			701.14	0.0001	P	11.4

$$y = 2.0122\text{E-}004 * x + 7.2074\text{E-}006$$

$$R = 1.0000$$

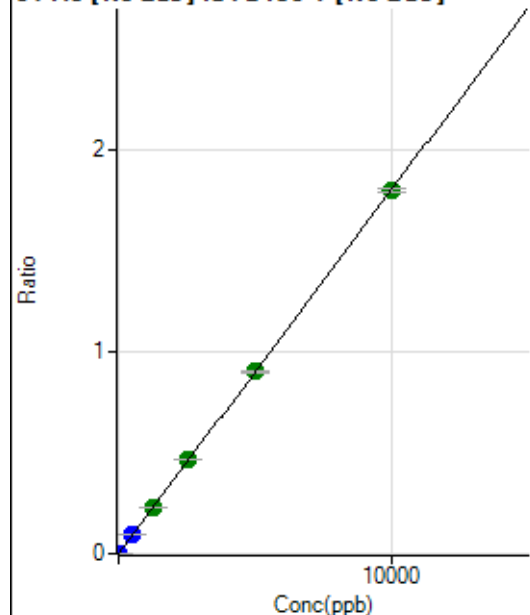
$$DL = 0.0252$$

$$BEC = 0.03582$$

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	142.22	0.0000	P	5.3
2	☐	5.000	5.617	7107.35	0.0010	P	2.8
3	☐	500.000	508.393	632631.95	0.0917	P	1.6
4	☐	1250.000	1283.529	1542486.92	0.2316	A	0.9
5	☐	2500.000	2580.336	3001586.31	0.4655	A	0.8
6	☐	5000.000	5013.969	5836330.47	0.9045	A	0.8
7	☐	10000.000	9968.320	11663840.66	1.7983	A	1.0
8	☐			4003.91	0.0007	P	8.8

$$y = 1.8040\text{E-}004 * x + 2.0521\text{E-}005$$

$$R = 1.0000$$

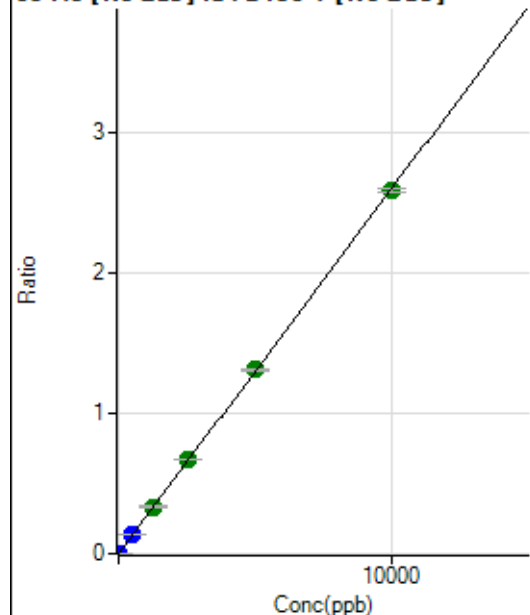
$$DL = 0.01797$$

$$BEC = 0.1138$$

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	356.67	0.0001	P	6.0
2	☐	5.000	4.785	8903.91	0.0013	P	0.6
3	☐	500.000	512.512	918916.63	0.1332	P	1.5
4	☐	1250.000	1290.081	2233504.01	0.3353	A	1.4
5	☐	2500.000	2587.098	4335619.31	0.6724	A	1.3
6	☐	5000.000	5051.098	8470127.86	1.3127	A	1.0
7	☐	10000.000	9947.041	16767221.14	2.5851	A	1.0
8	☐			4681.92	0.0008	P	11.1

$$y = 2.5988\text{E-}004 * x + 5.1446\text{E-}005$$

$$R = 0.9999$$

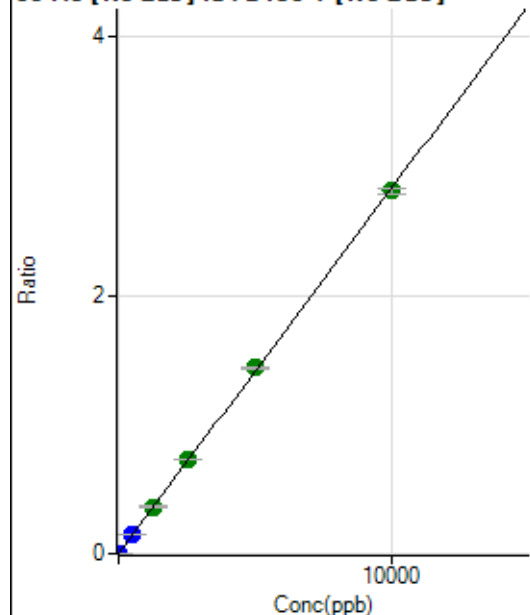
$$DL = 0.03592$$

$$BEC = 0.198$$

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	93.34	0.0000	P	6.7
2	☐	5.000	4.898	9611.02	0.0014	P	0.7
3	☐	500.000	512.915	999906.50	0.1450	P	0.9
4	☐	1250.000	1286.550	2421962.55	0.3636	A	1.9
5	☐	2500.000	2580.895	4703651.77	0.7294	A	1.0
6	☐	5000.000	5084.468	9272451.67	1.4370	A	1.0
7	☐	10000.000	9932.328	18206930.98	2.8072	A	1.7
8	☐			9783.37	0.0016	P	5.6

$$y = 2.8263E-004 * x + 1.3469E-005$$

$$R = 0.9999$$

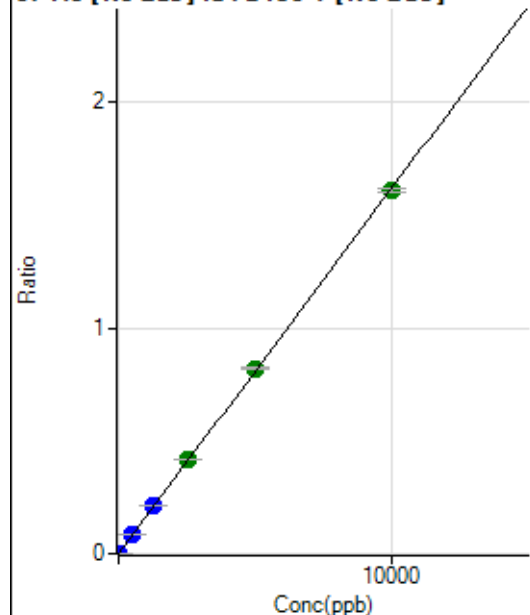
$$DL = 0.00961$$

$$BEC = 0.04766$$

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	61.11	0.0000	P	22.5
2	☐	5.000	4.853	5453.29	0.0008	P	0.6
3	☐	500.000	514.250	573298.01	0.0831	P	1.2
4	☐	1250.000	1306.374	1406482.50	0.2112	P	1.2
5	☐	2500.000	2572.916	2681655.08	0.4159	A	1.0
6	☐	5000.000	5075.841	5293520.86	0.8204	A	1.0
7	☐	10000.000	9936.091	10416340.61	1.6059	A	1.2
8	☐			2713.62	0.0005	P	9.6

$$y = 1.6163E-004 * x + 8.8231E-006$$

$$R = 0.9999$$

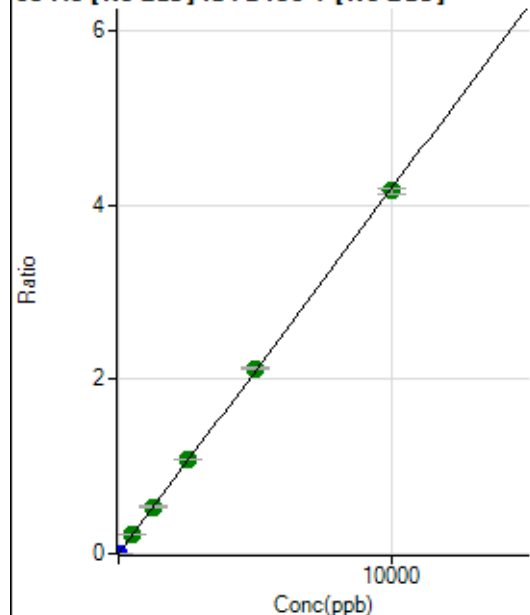
$$DL = 0.03684$$

$$BEC = 0.05459$$

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	67.78	0.0000	P	10.8
2	☐	5.000	4.831	13981.21	0.0020	P	1.0
3	☐	500.000	505.998	1461834.49	0.2120	A	0.9
4	☐	1250.000	1282.811	3579138.87	0.5373	A	1.2
5	☐	2500.000	2577.285	6960998.58	1.0795	A	0.6
6	☐	5000.000	5078.801	13726027.02	2.1273	A	1.4
7	☐	10000.000	9936.877	26995829.87	4.1621	A	1.3
8	☐			6763.90	0.0011	P	15.0

$$y = 4.1886\text{E-}004 * x + 9.7740\text{E-}006$$

$$R = 0.9999$$

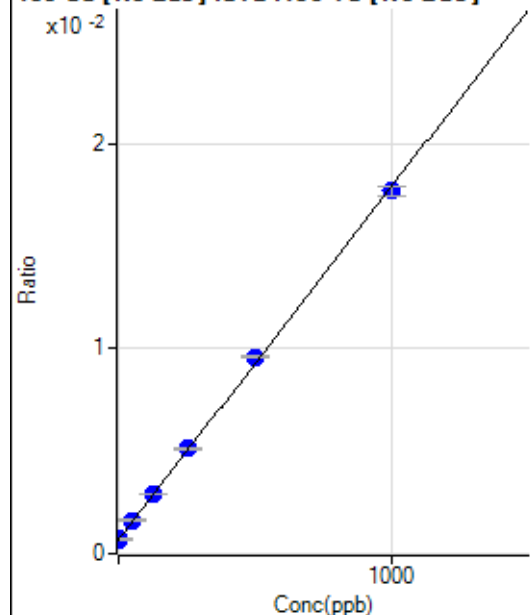
$$DL = 0.007543$$

$$BEC = 0.02333$$

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	3929.47	0.0007	P	2.4
2	☐	1.000	1.753	4113.95	0.0007	P	2.1
3	☐	50.000	55.556	9552.10	0.0016	P	2.1
4	☐	125.000	131.461	17013.40	0.0029	P	0.6
5	☐	250.000	257.892	29473.25	0.0051	P	0.9
6	☐	500.000	517.973	54645.49	0.0096	P	0.9
7	☐	1000.000	987.954	101647.75	0.0177	P	2.3
8	☐			3449.34	0.0006	P	3.5

$$y = 1.7233\text{E-}005 * x + 6.7645\text{E-}004$$

$$R = 0.9997$$

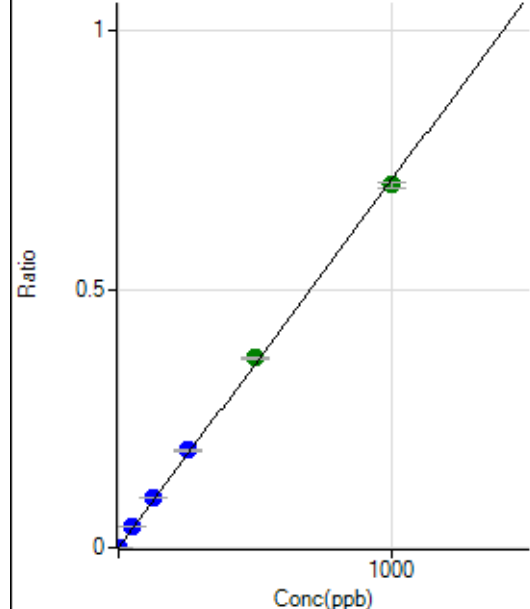
$$DL = 2.88$$

$$BEC = 39.25$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	11.5
2	☐	1.000	1.049	4402.93	0.0008	P	2.9
3	☐	50.000	55.708	231530.92	0.0396	P	0.7
4	☐	125.000	137.121	563599.70	0.0975	P	0.7
5	☐	250.000	264.651	1082658.34	0.1881	P	1.0
6	☐	500.000	515.325	2084215.32	0.3662	A	0.3
7	☐	1000.000	986.874	4027889.21	0.7014	A	1.6
8	☐			1045.61	0.0002	P	19.1

$$y = 7.1069\text{E-}004 * x + 1.0714\text{E-}005$$

$$R = 0.9997$$

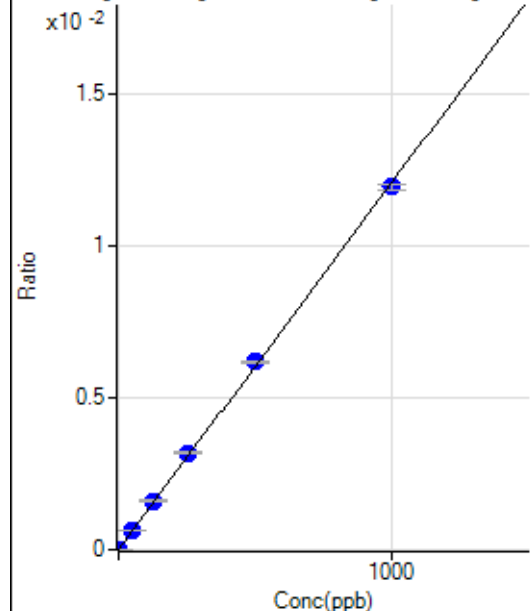
$$DL = 0.005197$$

$$BEC = 0.01508$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.7
2	☐	1.000	1.012	87.78	0.0000	P	26.8
3	☐	50.000	51.934	3678.28	0.0006	P	2.7
4	☐	125.000	132.114	9228.56	0.0016	P	3.0
5	☐	250.000	264.464	18373.93	0.0032	P	0.9
6	☐	500.000	511.884	35143.66	0.0062	P	1.0
7	☐	1000.000	989.456	68539.58	0.0119	P	1.7
8	☐			58.89	0.0000	P	2.8

$$y = 1.2059\text{E-}005 * x + 2.8697\text{E-}006$$

$$R = 0.9998$$

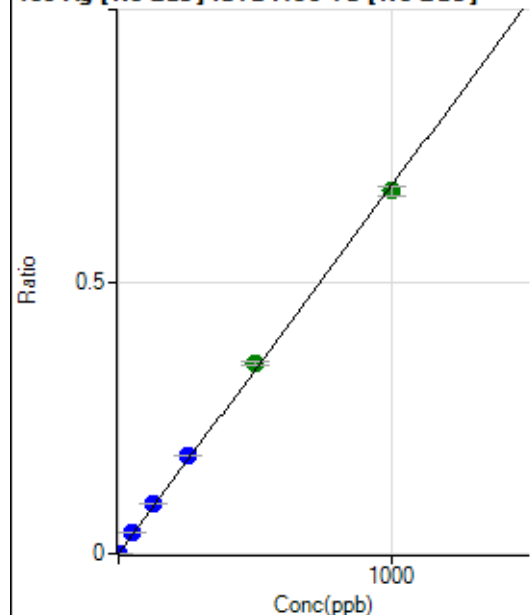
$$DL = 0.2479$$

$$BEC = 0.238$$

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	23.33	0.0000	P	28.3
2	☐	1.000	1.069	4230.66	0.0007	P	2.4
3	☐	50.000	55.935	221112.09	0.0378	P	0.6
4	☐	125.000	137.773	538660.93	0.0931	P	0.6
5	☐	250.000	265.691	1033935.97	0.1796	P	0.5
6	☐	500.000	515.960	1985019.26	0.3488	A	1.8
7	☐	1000.000	986.204	3828310.60	0.6667	A	3.0
8	☐			1016.72	0.0002	P	15.3

$$y = 6.7607\text{E-}004 * x + 4.0143\text{E-}006$$

$$R = 0.9996$$

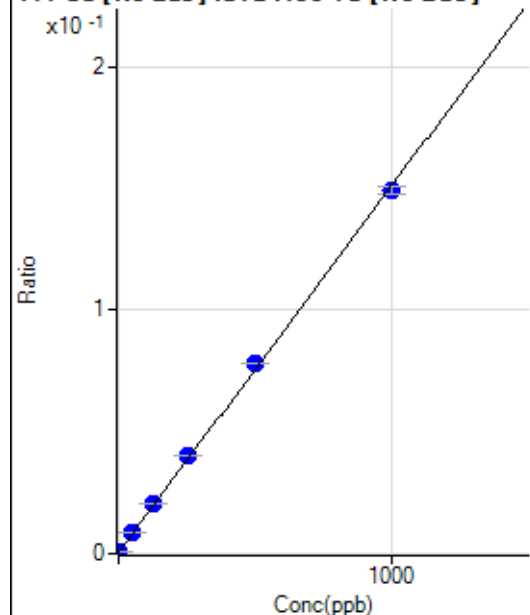
$$DL = 0.005039$$

$$BEC = 0.005938$$

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	2752.29	0.0005	P	2.6
2	☐	1.000	1.157	3771.70	0.0006	P	0.5
3	☐	50.000	54.268	50495.66	0.0086	P	1.4
4	☐	125.000	135.083	120242.09	0.0208	P	1.1
5	☐	250.000	263.732	231073.19	0.0401	P	0.6
6	☐	500.000	516.865	445140.33	0.0782	P	0.7
7	☐	1000.000	986.661	855013.98	0.1489	P	2.0
8	☐			2876.65	0.0005	P	3.0

$$y = 1.5042\text{E-}004 * x + 4.7380\text{E-}004$$

$$R = 0.9997$$

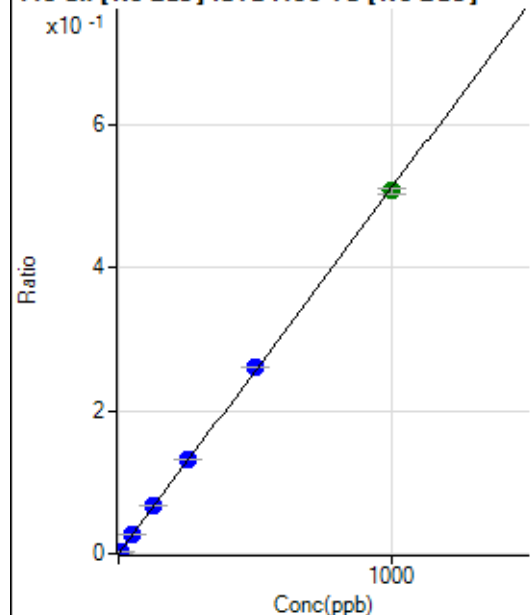
$$DL = 0.2454$$

$$BEC = 3.15$$

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	441.12	0.0001	P	10.7
2	☐	5.000	5.179	15871.07	0.0027	P	0.3
3	☐	50.000	52.814	158464.65	0.0271	P	1.0
4	☐	125.000	131.357	389190.27	0.0673	P	0.6
5	☐	250.000	256.953	757355.03	0.1316	P	0.2
6	☐	500.000	510.243	1486439.89	0.2612	P	0.4
7	☐	1000.000	992.204	2916450.62	0.5079	A	1.9
8	☐			1692.34	0.0003	P	8.1

$$y = 5.1178\text{E-}004 * x + 7.5923\text{E-}005$$

$$R = 0.9999$$

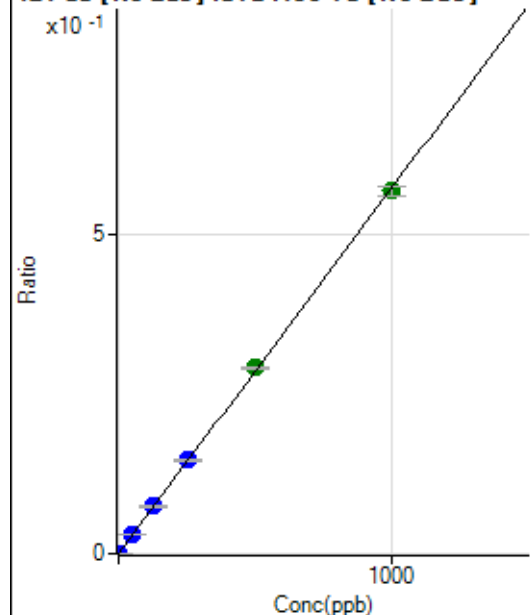
$$DL = 0.04759$$

$$BEC = 0.1484$$

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	22.22	0.0000	P	23.1
2	☐	2.000	1.987	6628.26	0.0011	P	2.8
3	☐	50.000	51.959	173509.10	0.0297	P	0.5
4	☐	125.000	129.411	427399.82	0.0739	P	1.1
5	☐	250.000	255.356	839425.67	0.1458	P	0.3
6	☐	500.000	509.905	1657135.79	0.2912	A	1.0
7	☐	1000.000	993.059	3256662.49	0.5671	A	2.4
8	☐			2363.55	0.0004	P	0.4

$$y = 5.7110\text{E-}004 * x + 3.8268\text{E-}006$$

$$R = 0.9999$$

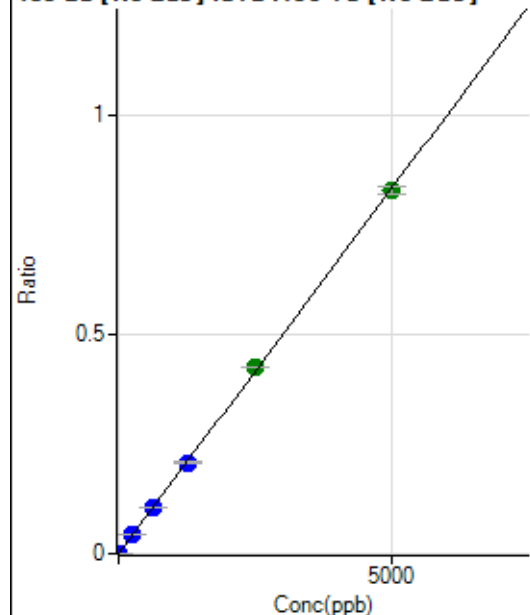
$$DL = 0.004648$$

$$BEC = 0.006701$$

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	13.33	0.0000	P	43.2
2	☐	10.000	9.916	9635.57	0.0017	P	1.9
3	☐	250.000	252.663	246247.41	0.0421	P	0.3
4	☐	625.000	634.285	611444.71	0.1057	P	0.2
5	☐	1250.000	1250.476	1199815.40	0.2084	P	0.4
6	☐	2500.000	2556.489	2425049.34	0.4261	A	0.5
7	☐	5000.000	4970.343	4757611.28	0.8285	A	2.2
8	☐			2971.45	0.0006	P	9.9

$$y = 1.6669\text{E-}004 * x + 2.2945\text{E-}006$$

$$R = 0.9999$$

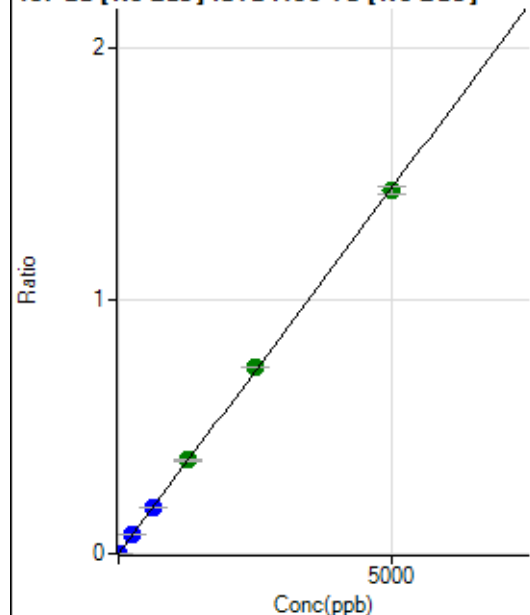
$$DL = 0.01783$$

$$BEC = 0.01377$$

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	40.00	0.0000	P	33.2
2	☐	10.000	10.081	16981.32	0.0029	P	2.3
3	☐	250.000	253.803	428398.47	0.0733	P	0.3
4	☐	625.000	632.683	1056228.97	0.1826	P	0.6
5	☐	1250.000	1278.664	2124771.52	0.3691	A	0.8
6	☐	2500.000	2552.890	4193898.44	0.7370	A	0.5
7	☐	5000.000	4965.239	8231129.18	1.4334	A	2.0
8	☐			5008.70	0.0009	P	0.9

$$y = 2.8868\text{E-}004 * x + 6.8847\text{E-}006$$

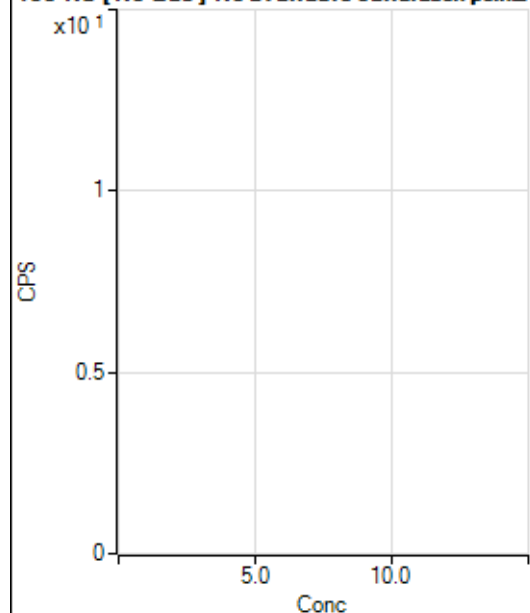
$$R = 0.9999$$

$$DL = 0.02376$$

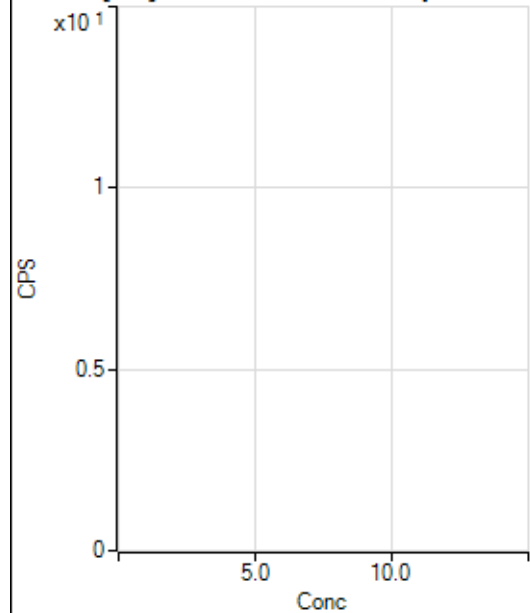
$$BEC = 0.02385$$

Weight: <None>

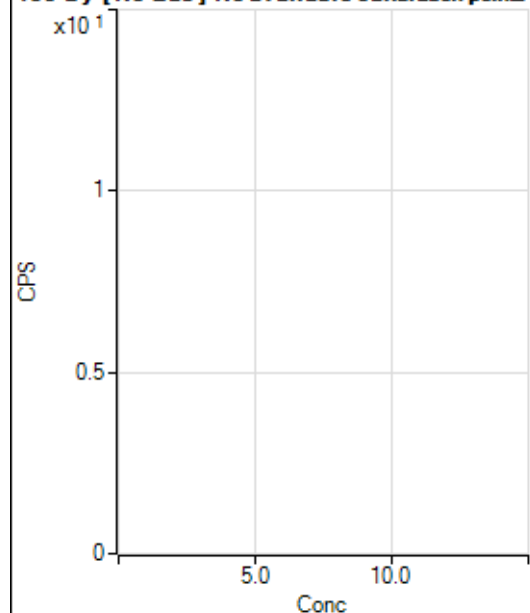
Min Conc: 0

150 Nd [No Gas] No available calibration points

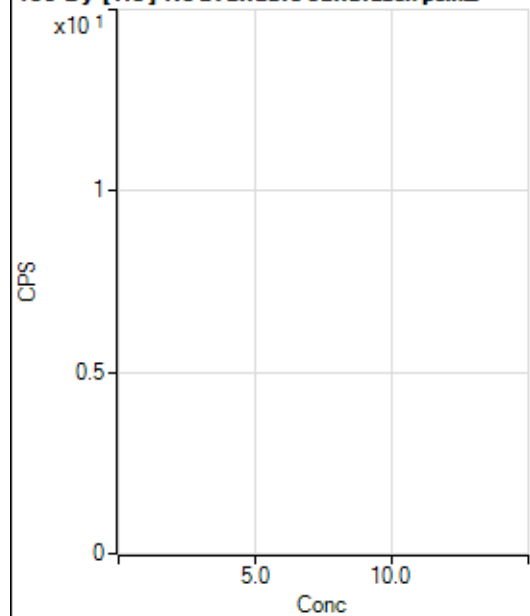
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			8.89		P	94.4
3	☐			44.44		P	37.0
4	☐			141.12		P	11.2
5	☐			241.12		P	12.5
6	☐			491.12		P	10.9
7	☐			1034.49		P	1.3
8	☐			168.89		P	7.5

150 Nd [He] No available calibration points

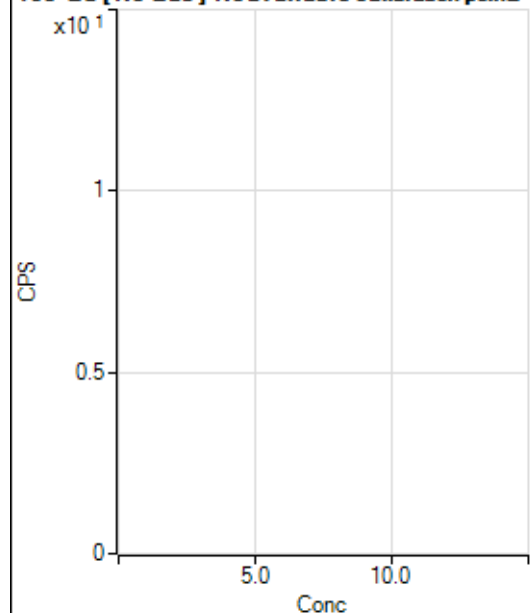
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			0.00		P	
3	☐			7.78		P	24.7
4	☐			24.45		P	28.4
5	☐			63.33		P	21.1
6	☐			87.78		P	17.9
7	☐			210.00		P	8.4
8	☐			87.78		P	24.1

156 Dy [No Gas] No available calibration points

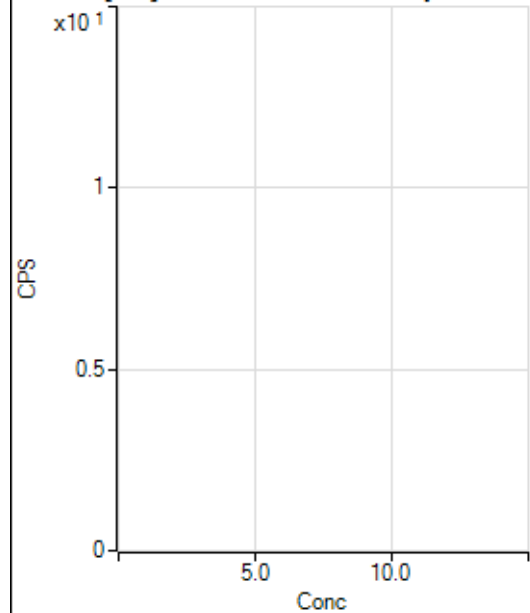
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			7.78		P	49.5
3	☐			27.78		P	18.3
4	☐			47.78		P	56.0
5	☐			85.56		P	28.7
6	☐			186.67		P	7.8
7	☐			360.01		P	11.2
8	☐			855.59		P	3.0

156 Dy [He] No available calibration points

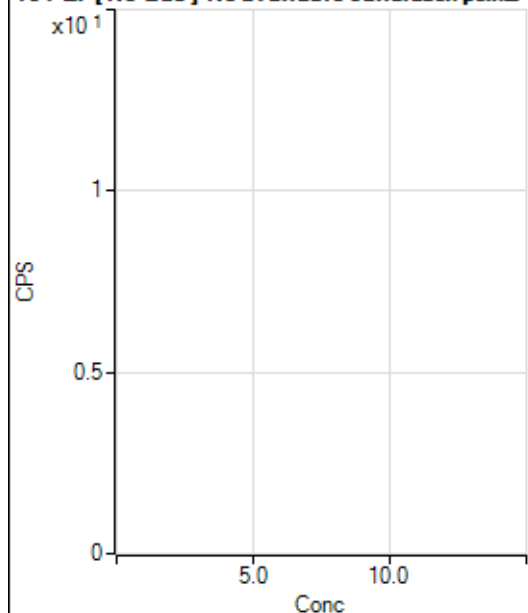
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.45		P	86.6
3	☐			18.89		P	20.4
4	☐			60.00		P	34.7
5	☐			76.67		P	19.9
6	☐			158.89		P	15.5
7	☐			338.90		P	2.3
8	☐			568.91		P	16.3

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

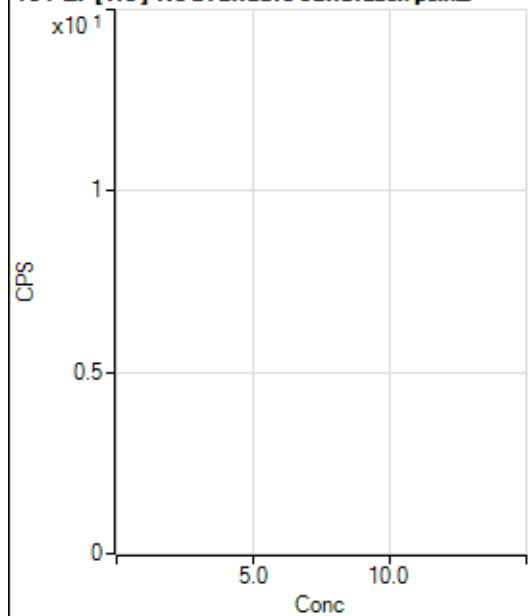
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	10.0
2	☐			28.89		P	74.2
3	☐			41.11		P	16.9
4	☐			56.67		P	0.0
5	☐			75.56		P	22.6
6	☐			125.56		P	15.3
7	☐			254.45		P	4.6
8	☐			873.37		P	4.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			187.78		P	21.2
2	☐			182.22		P	32.9
3	☐			203.34		P	5.9
4	☐			216.67		P	15.2
5	☐			196.67		P	3.4
6	☐			274.45		P	1.9
7	☐			330.01		P	8.0
8	☐			691.14		P	6.0

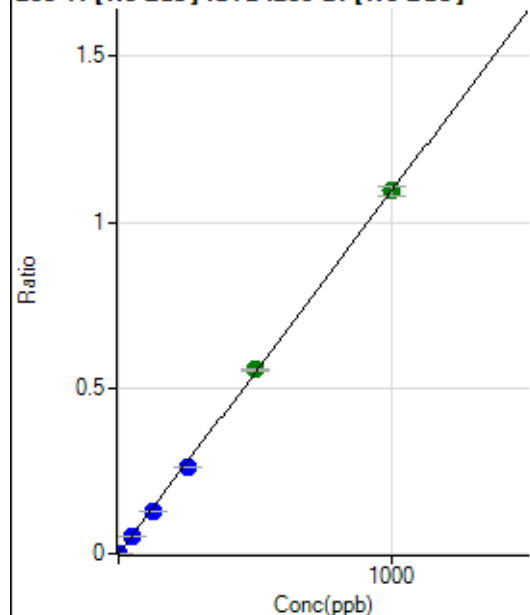
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	43.7
2	☐			71.11		P	19.5
3	☐			53.33		P	39.0
4	☐			50.00		P	23.1
5	☐			54.45		P	12.7
6	☐			91.11		P	11.8
7	☐			120.00		P	18.2
8	☐			137.78		P	2.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	29.6
2	☐			36.67		P	55.3
3	☐			43.34		P	26.6
4	☐			45.55		P	23.5
5	☐			50.00		P	24.0
6	☐			43.33		P	15.4
7	☐			67.78		P	40.1
8	☐			80.00		P	15.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0000	P	20.6
2	☐	1.000	0.863	3378.23	0.0010	P	1.2
3	☐	50.000	46.430	177383.74	0.0508	P	1.0
4	☐	125.000	118.610	448052.34	0.1297	P	1.0
5	☐	250.000	236.360	890094.99	0.2585	P	0.1
6	☐	500.000	507.636	1867376.33	0.5552	A	0.5
7	☐	1000.000	1000.569	3656511.82	1.0944	A	2.4
8	☐			884.48	0.0003	P	12.6

$$y = 0.0011 * x + 1.9263E-005$$

$$R = 0.9999$$

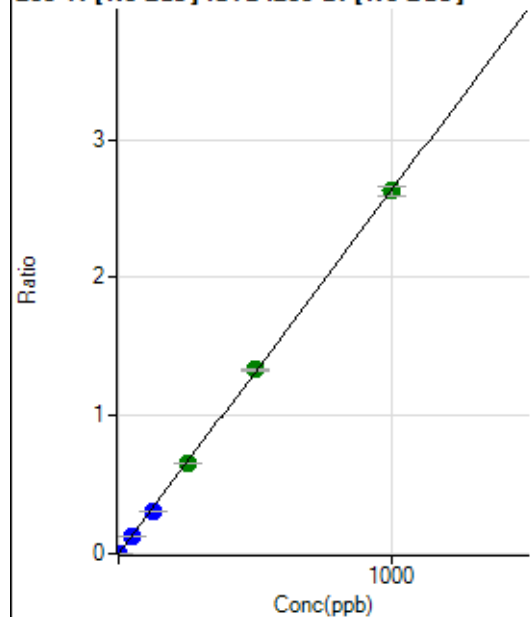
$$DL = 0.0109$$

$$BEC = 0.01761$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0001	P	13.6
2	☐	1.000	0.862	8142.50	0.0023	P	2.4
3	☐	50.000	46.322	425694.59	0.1219	P	0.6
4	☐	125.000	117.832	1070634.85	0.3100	P	1.2
5	☐	250.000	248.243	2248669.40	0.6531	A	0.9
6	☐	500.000	506.047	4477503.68	1.3313	A	1.1
7	☐	1000.000	998.496	8776219.31	2.6268	A	2.8
8	☐			1952.38	0.0007	P	11.5

$$y = 0.0026 * x + 5.3982E-005$$

$$R = 0.9999$$

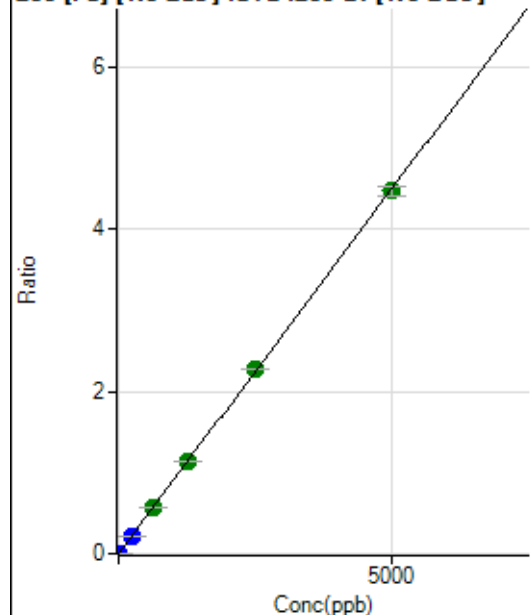
$$DL = 0.008351$$

$$BEC = 0.02052$$

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	235.56	0.0001	P	12.8
2	☐	1.000	0.889	3037.04	0.0009	P	4.7
3	☐	250.000	234.505	736494.72	0.2109	P	0.8
4	☐	625.000	636.447	1976338.44	0.5723	A	1.7
5	☐	1250.000	1266.182	3919980.91	1.1386	A	0.6
6	☐	2500.000	2533.841	7662656.00	2.2784	A	0.6
7	☐	5000.000	4978.378	14955918.11	4.4764	A	2.7
8	☐			7299.81	0.0026	P	2.6

$$y = 8.9916\text{E-}004 * x + 6.6934\text{E-}005$$

$$R = 0.9999$$

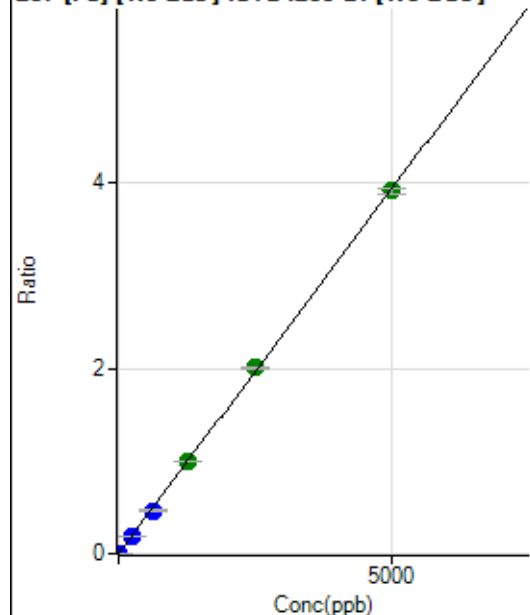
$$DL = 0.02854$$

$$BEC = 0.07444$$

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	182.22	0.0001	P	7.3
2	☐	1.000	0.869	2576.94	0.0007	P	2.1
3	☐	250.000	233.042	639811.35	0.1832	P	1.8
4	☐	625.000	593.415	1611045.20	0.4665	P	1.1
5	☐	1250.000	1261.500	3414068.91	0.9917	A	1.0
6	☐	2500.000	2550.753	6743381.29	2.0052	A	1.4
7	☐	5000.000	4976.545	13071899.81	3.9121	A	1.8
8	☐			6210.37	0.0022	P	2.4

$$y = 7.8610\text{E-}004 * x + 5.1776\text{E-}005$$

$$R = 0.9999$$

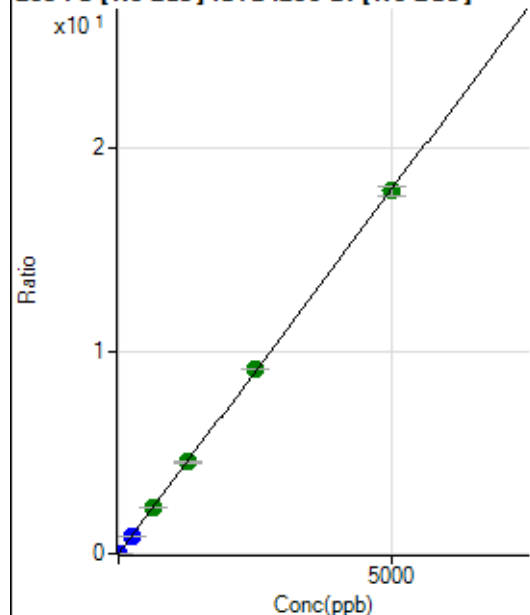
$$DL = 0.01441$$

$$BEC = 0.06586$$

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	1255.60	0.0004	P	5.1
2	☐	1.000	0.882	12356.82	0.0035	P	2.4
3	☐	250.000	233.855	2934646.12	0.8405	P	1.2
4	☐	625.000	624.616	7749997.33	2.2443	A	1.2
5	☐	1250.000	1258.310	15563709.91	4.5208	A	0.9
6	☐	2500.000	2534.784	30626073.85	9.1065	A	0.6
7	☐	5000.000	4981.386	59793594.39	17.8959	A	2.4
8	☐			28906.80	0.0103	P	4.1

$$y = 0.0036 * x + 3.5676E-004$$

$$R = 1.0000$$

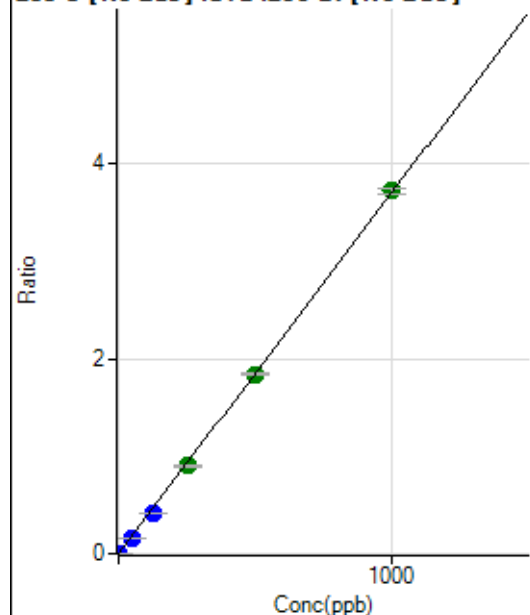
$$DL = 0.01513$$

$$BEC = 0.09931$$

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	17.78	0.0000	P	60.0
2	☐	1.000	0.850	11049.10	0.0032	P	1.6
3	☐	50.000	43.321	559592.67	0.1603	P	1.9
4	☐	125.000	112.002	1430879.87	0.4144	P	1.0
5	☐	250.000	242.821	3092731.45	0.8983	A	0.3
6	☐	500.000	496.728	6179987.27	1.8376	A	0.8
7	☐	1000.000	1005.390	12428792.59	3.7194	A	1.7
8	☐			2612.51	0.0009	P	12.2

$$y = 0.0037 * x + 5.0464E-006$$

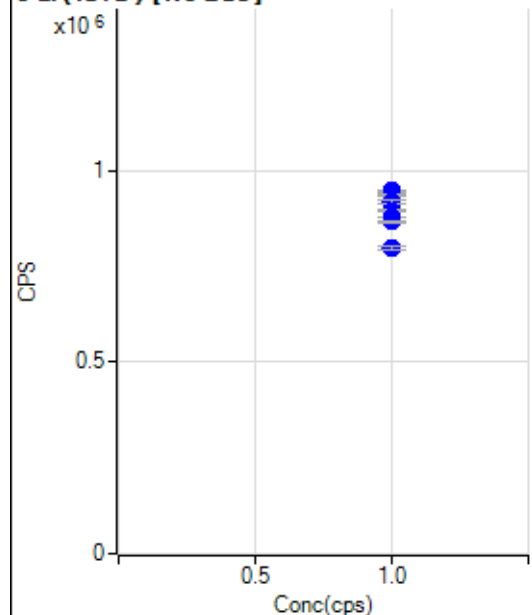
$$R = 0.9999$$

$$DL = 0.002456$$

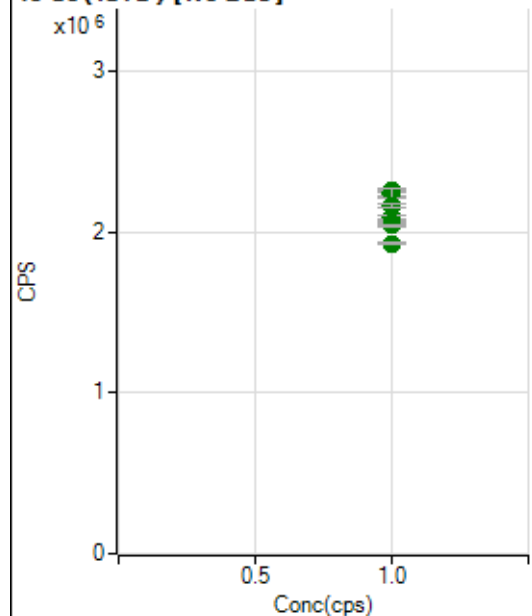
$$BEC = 0.001364$$

Weight: <None>

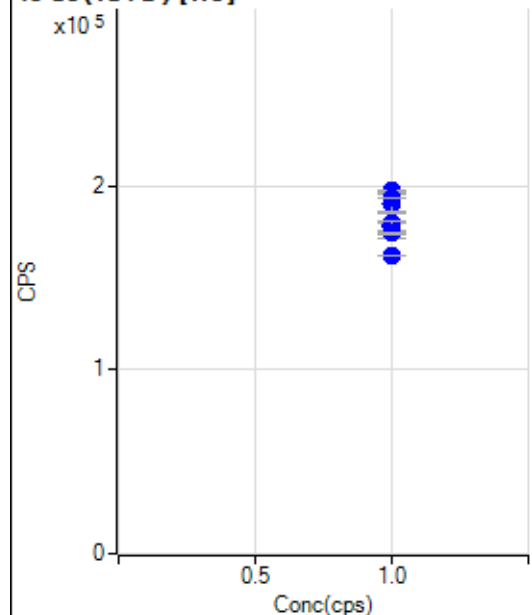
Min Conc: 0

6 Li (ISTD) [No Gas]

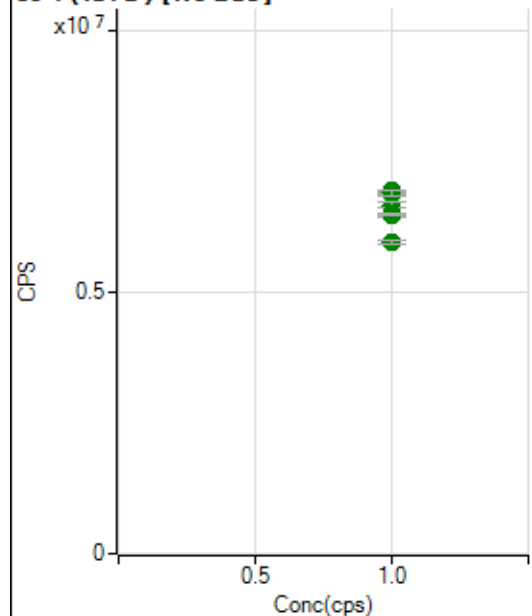
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		944785.97		P	0.7
2	☐	1.000		948065.94		P	0.7
3	☐	1.000		938577.52		P	0.7
4	☐	1.000		919839.49		P	0.7
5	☐	1.000		896570.60		P	0.4
6	☐	1.000		879371.61		P	0.2
7	☐	1.000		867345.56		P	0.6
8	☐	1.000		798809.50		P	1.2

45 Sc (ISTD) [No Gas]

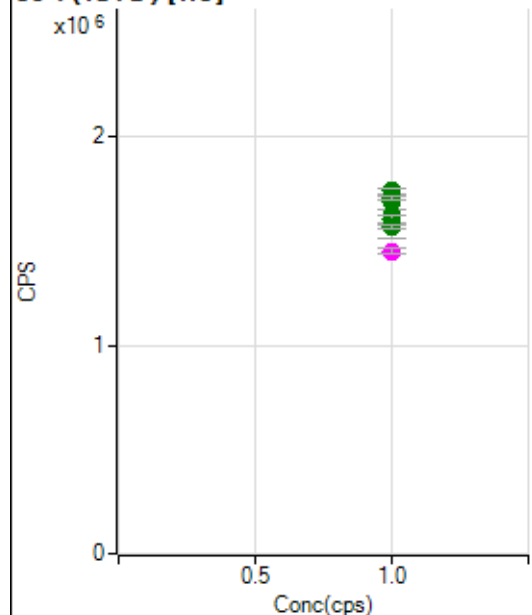
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2235844.91		A	0.9
2	☐	1.000		2258201.91		A	0.7
3	☐	1.000		2244547.62		A	2.5
4	☐	1.000		2168685.17		A	1.4
5	☐	1.000		2092079.95		A	0.9
6	☐	1.000		2063239.15		A	0.2
7	☐	1.000		2042386.34		A	0.6
8	☐	1.000		1930222.92		A	0.9

45 Sc (ISTD) [He]

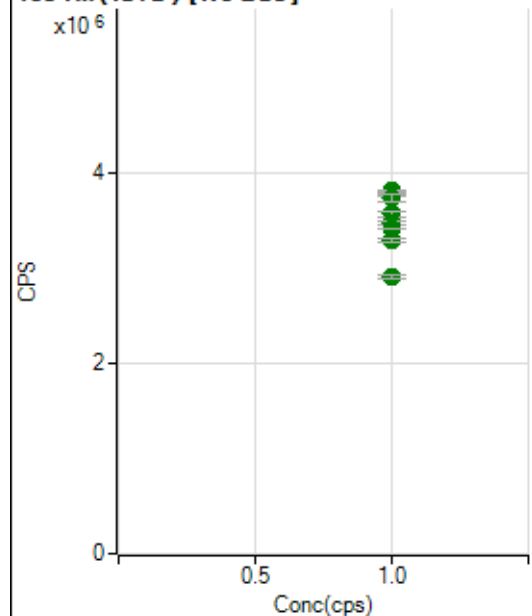
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		197159.96		P	0.4
2	☐	1.000		190403.91		P	5.2
3	☐	1.000		193440.78		P	0.3
4	☐	1.000		178797.30		P	8.1
5	☐	1.000		179719.19		P	0.5
6	☐	1.000		177823.80		P	3.1
7	☐	1.000		174153.97		P	0.4
8	☐	1.000		161964.21		P	0.4

89 Y (ISTD) [No Gas]

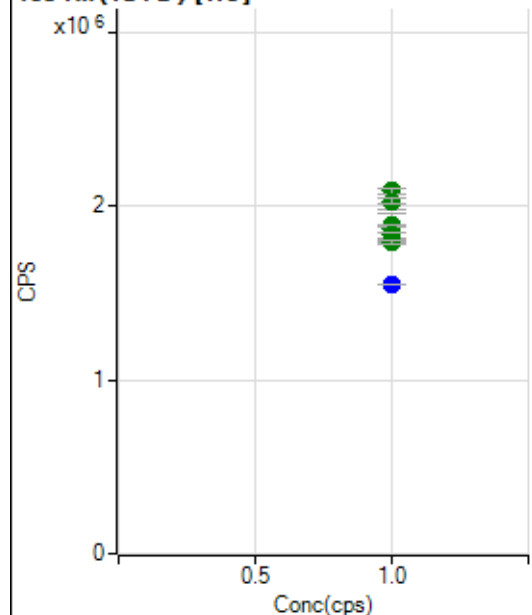
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6931610.38		A	0.6
2	☐	1.000		6875564.06		A	0.4
3	☐	1.000		6897506.49		A	1.4
4	☐	1.000		6661649.14		A	1.3
5	☐	1.000		6448255.95		A	0.6
6	☐	1.000		6452690.11		A	0.8
7	☐	1.000		6486565.67		A	0.9
8	☐	1.000		5950094.08		A	1.2

89 Y (ISTD) [He]

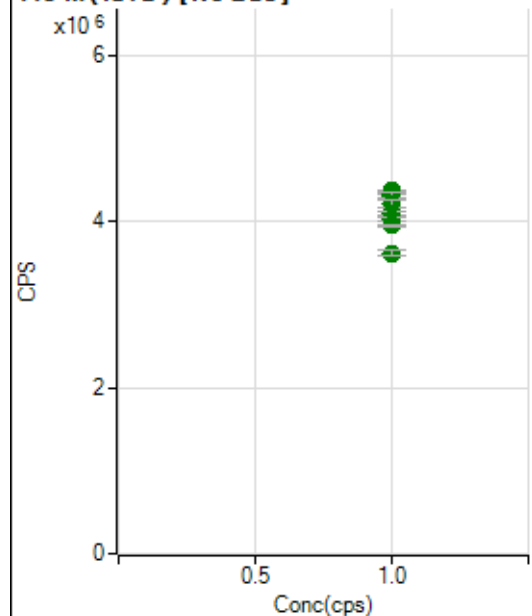
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1740845.77		A	1.7
2	☐	1.000		1684403.64		A	4.4
3	☐	1.000		1703966.23		A	1.0
4	☐	1.000		1569017.93		A	7.6
5	☐	1.000		1623591.59		A	0.4
6	☐	1.000		1606167.20		A	2.5
7	☐	1.000		1570537.11		A	1.0
8	☐	1.000		1448993.42		M	1.9

103 Rh (ISTD) [No Gas]

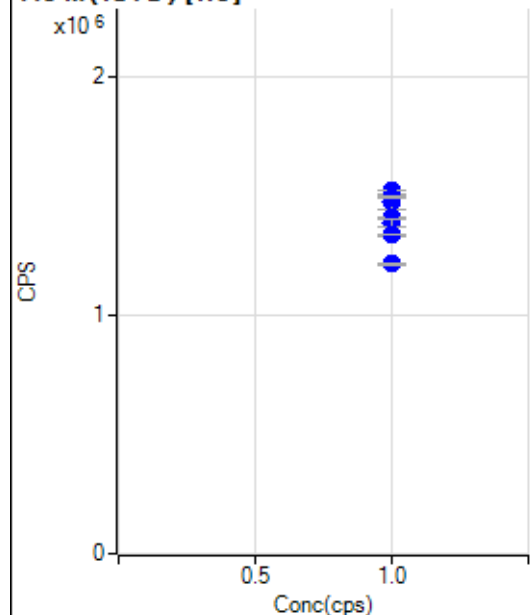
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3793129.53		A	1.0
2	☐	1.000		3818335.81		A	0.6
3	☐	1.000		3744605.85		A	2.0
4	☐	1.000		3573027.48		A	1.5
5	☐	1.000		3481898.80		A	1.0
6	☐	1.000		3416853.60		A	0.1
7	☐	1.000		3300968.84		A	0.9
8	☐	1.000		2915271.31		A	1.2

103 Rh (ISTD) [He]

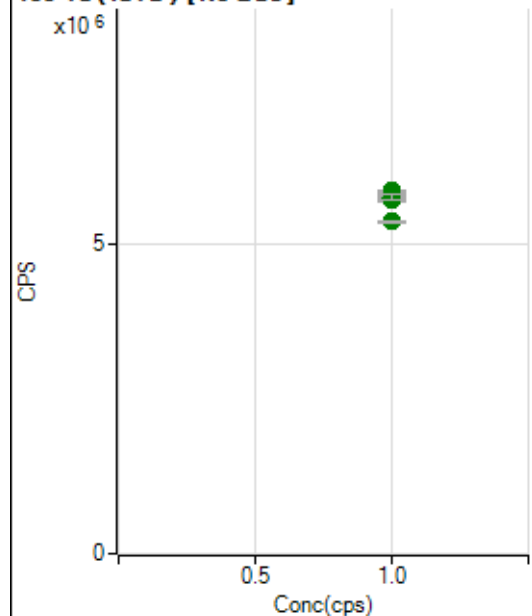
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2085895.77		A	1.8
2	☐	1.000		2022912.25		A	4.8
3	☐	1.000		2027403.74		A	1.3
4	☐	1.000		1872783.39		A	8.7
5	☐	1.000		1886319.80		A	0.9
6	☐	1.000		1832264.00		A	1.9
7	☐	1.000		1793833.38		A	1.4
8	☐	1.000		1547999.06		P	0.3

115 In (ISTD) [No Gas]

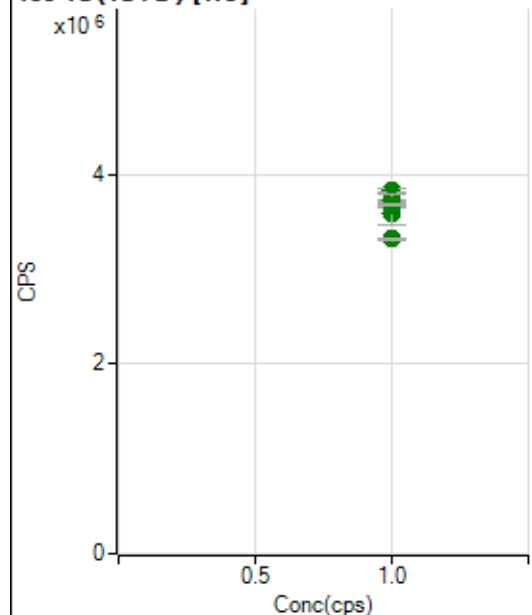
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4308171.96		A	1.2
2	☐	1.000		4367784.15		A	0.5
3	☐	1.000		4317926.08		A	1.2
4	☐	1.000		4212449.34		A	1.8
5	☐	1.000		4093435.18		A	1.1
6	☐	1.000		4024560.48		A	1.3
7	☐	1.000		3948969.37		A	1.1
8	☐	1.000		3614557.92		A	1.9

115 In (ISTD) [He]

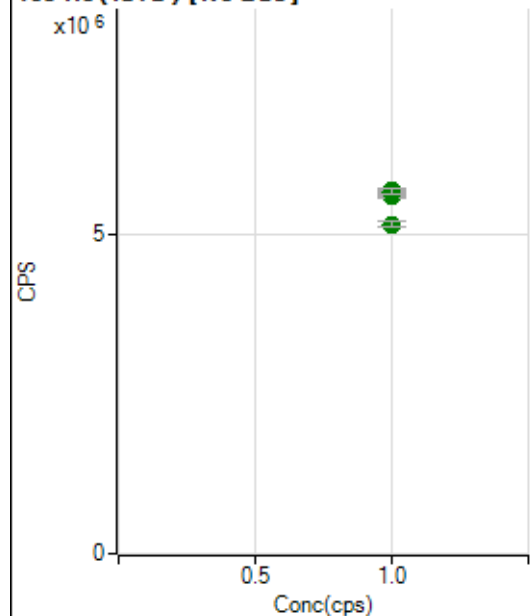
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1518511.87		P	0.1
2	☐	1.000		1472358.11		P	4.2
3	☐	1.000		1490879.61		P	0.4
4	☐	1.000		1385456.62		P	8.3
5	☐	1.000		1408596.65		P	0.4
6	☐	1.000		1385682.25		P	2.1
7	☐	1.000		1335839.96		P	0.3
8	☐	1.000		1211689.88		P	0.2

159 Tb (ISTD) [No Gas]

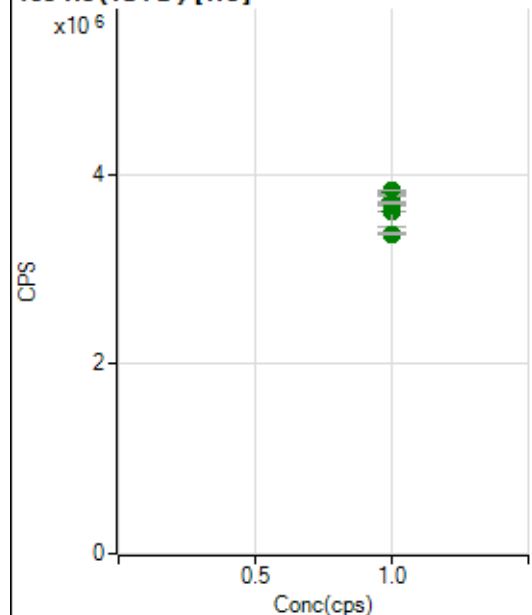
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5809184.36		A	0.3
2	☐	1.000		5821577.14		A	0.4
3	☐	1.000		5846525.47		A	0.3
4	☐	1.000		5783040.47		A	1.0
5	☐	1.000		5755976.65		A	0.8
6	☐	1.000		5690764.01		A	0.7
7	☐	1.000		5743997.00		A	1.9
8	☐	1.000		5345974.51		A	1.0

159 Tb (ISTD) [He]

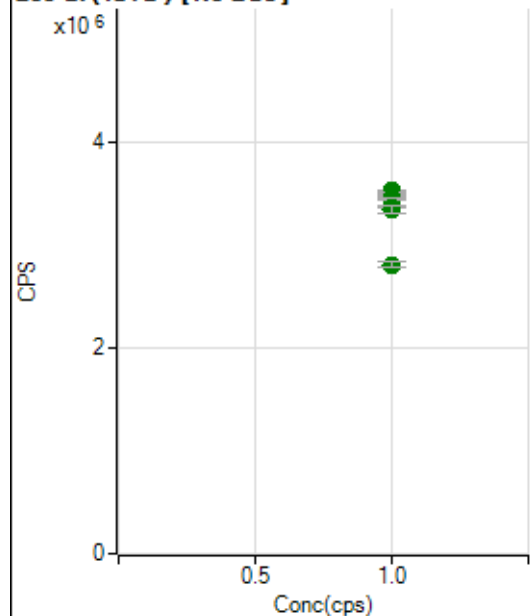
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3823435.29		A	1.6
2	☐	1.000		3730676.89		A	4.6
3	☐	1.000		3791626.99		A	0.5
4	☐	1.000		3587902.86		A	7.3
5	☐	1.000		3693761.30		A	1.3
6	☐	1.000		3730088.55		A	2.8
7	☐	1.000		3673119.18		A	0.7
8	☐	1.000		3317063.35		A	0.6

165 Ho (ISTD) [No Gas]

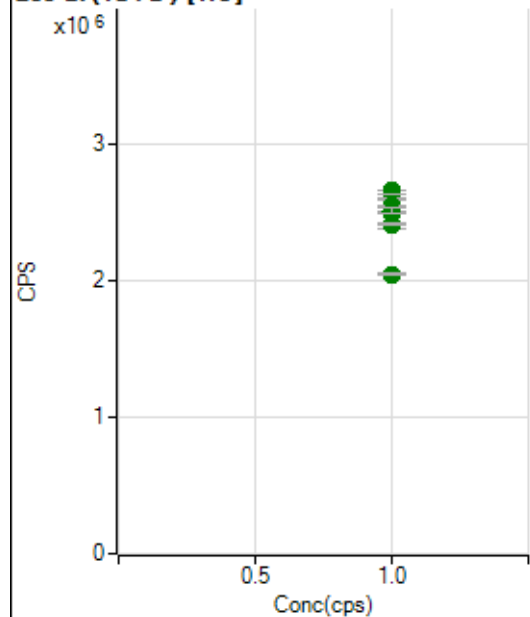
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5636147.35		A	0.5
2	☐	1.000		5687731.93		A	0.3
3	☐	1.000		5658247.76		A	0.5
4	☐	1.000		5653107.14		A	1.7
5	☐	1.000		5637532.69		A	1.3
6	☐	1.000		5603321.03		A	0.5
7	☐	1.000		5681288.60		A	1.1
8	☐	1.000		5162304.78		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3828015.50		A	0.5
2	☐	1.000		3696430.05		A	4.2
3	☐	1.000		3815827.93		A	1.0
4	☐	1.000		3609947.62		A	9.3
5	☐	1.000		3682412.34		A	0.2
6	☐	1.000		3734861.05		A	1.9
7	☐	1.000		3698959.01		A	0.7
8	☐	1.000		3374544.88		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3519309.15		A	0.2
2	☐	1.000		3507009.25		A	0.8
3	☐	1.000		3491844.29		A	0.7
4	☐	1.000		3453459.95		A	0.9
5	☐	1.000		3442825.08		A	1.0
6	☐	1.000		3363108.14		A	0.8
7	☐	1.000		3342178.25		A	1.9
8	☐	1.000		2807240.44		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2656216.80		A	0.0
2	☐	1.000		2553303.14		A	3.3
3	☐	1.000		2635081.49		A	0.1
4	☐	1.000		2495238.56		A	8.8
5	☐	1.000		2548124.32		A	0.4
6	☐	1.000		2507303.80		A	1.8
7	☐	1.000		2412802.01		A	0.2
8	☐	1.000		2046221.51		A	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7112423-MS.b
Acq. Date-Time 2023-11-24 07:49:38
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		5270	52704.89			0.574	5.000
24		32412	324115.79			0.782	5.000
25		4144	41444.67			0.865	5.000
26		4673	46730.00			0.908	5.000
59		39023	390226.98			0.743	5.000
113		6486	64855.97			1.005	5.000
115		79924	799242.67			1.066	5.000
206		17578	175782.72			0.769	5.000
207		16142	161419.38			0.493	5.000
208		37833	378325.44			0.515	5.000
220		0	0.90			106.863	

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

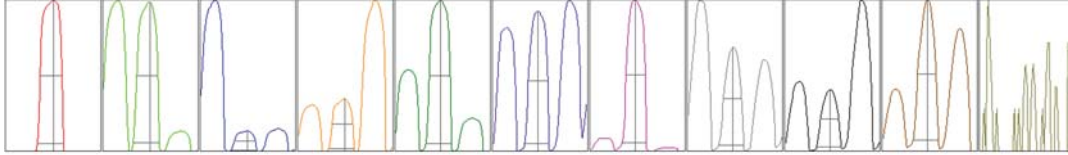
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5313	5284	5255	5233	5267
24	32796	32320	32328	32118	32496
25	4173	4148	4142	4086	4174
26	4733	4637	4689	4628	4677
59	39424	39011	38977	38612	39090
113	6577	6488	6486	6393	6484
115	81108	80162	79901	78741	79709
206	17712	17560	17608	17358	17653
207	16252	16133	16164	16030	16131
208	37981	37925	37806	37505	37947

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7876.30	9.05	8.90 - 9.10	
24	50055.37	24.00	23.90 - 24.10	
25	6525.24	25.00	24.90 - 25.10	
26	7312.53	26.00	25.90 - 26.10	
59	60398.53	58.95	58.90 - 59.10	
113	10948.14	112.95	112.90 - 113.10	
115	136596.57	114.95	114.90 - 115.10	
206	31724.04	205.95	205.90 - 206.10	
207	28017.49	206.95	206.90 - 207.10	
208	67995.86	207.95	207.90 - 208.10	
220	0.00	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.69	0.824	0.900	
24	0.68	0.826	0.900	
25	0.67	0.794	0.900	
26	0.66	0.793	0.900	
59	0.67	0.810	0.900	
113	0.61	0.774	0.900	
115	0.60	0.773	0.900	
206	0.56	0.791	0.900	
207	0.57	0.782	0.900	
208	0.58	0.807	0.900	
220	0.23	0.225		

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	8.4 V	Deflect	15.0 V
Extract 2	-85.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-50 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	133	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.16		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2296 V	Pulse HV	1376 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11736	117357.61			4.973	
89		19982	198959.09			4.081	
205		18915	189145.50			4.721	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12003	12009	10693	11940	12033
89	20466	20305	18529	20281	20329
205	19375	19357	17320	19235	19286

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	8.7 V	Deflect	0.8 V
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US EPA Tune Check Report

Extract 2	-90.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-50 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	133	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.16		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2296 V	Pulse HV	1376 V
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