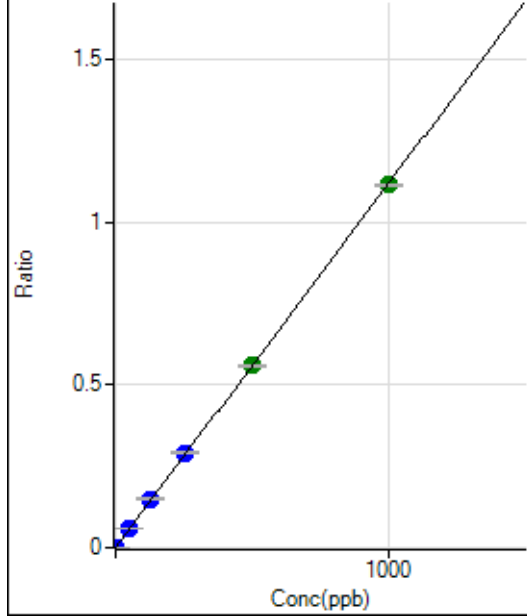


Calibration for 104SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7042424-MS3.b\
 Analysis File: P7042424-MS3.batch.bin
 DA Date-Time: 2024-04-24 22:13:37
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2024-04-24 12:23:11
2	006CALS.d	S02	2024-04-24 12:36:16
3	007CALS.d	S03	2024-04-24 12:39:31
4	008CALS.d	S04	2024-04-24 12:42:31
5	009CALS.d	S05	2024-04-24 12:45:20
6	010CALS.d	S06	2024-04-24 12:48:08
7	011CALS.d	S07	2024-04-24 12:50:54
8	012CALS.d	S08	2024-04-24 12:53:41

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0000	P	12.0
2	☐	1.000	1.042	3229.25	0.0012	P	3.1
3	☐	50.000	54.047	160637.54	0.0605	P	0.6
4	☐	125.000	134.570	395228.93	0.1506	P	1.7
5	☐	250.000	260.017	765589.23	0.2910	P	1.8
6	☐	500.000	499.472	1422260.22	0.5590	A	1.8
7	☐	1000.000	996.361	2726198.47	1.1150	A	0.6
8	☐			1215.62	0.0005	P	14.6

$$y = 0.0011 * x + 4.8887E-005$$

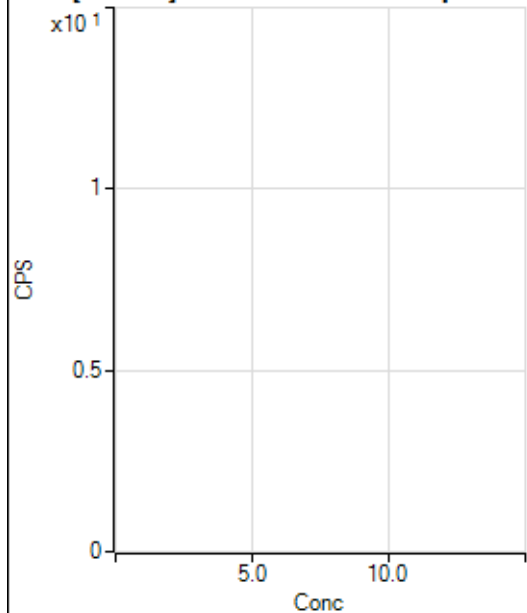
$$R = 0.9999$$

$$DL = 0.01576$$

$$BEC = 0.04369$$

Weight: <None>

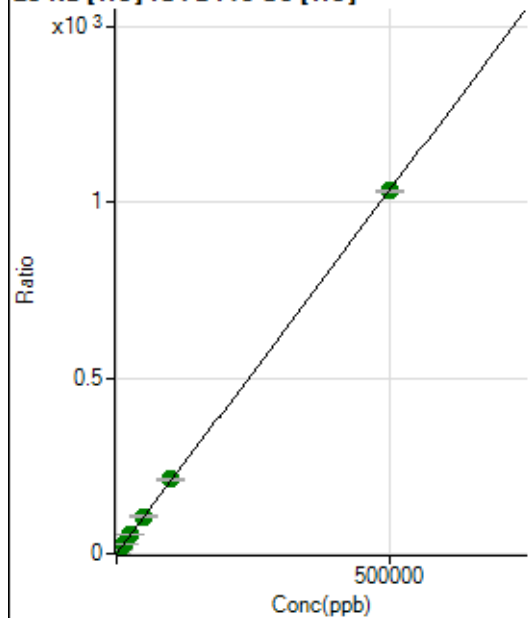
Min Conc: 0

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	26972.56	0.0564	P	1.6
2	☐	500.000	490.375	513517.13	1.0699	P	0.4
3	☐	5000.000	5093.028	5013849.23	10.5830	A	9.1
4	☐	12500.000	12794.228	12207085.79	26.5002	A	0.4
5	☐	25000.000	25927.692	23714289.09	53.6452	A	0.8
6	☐	50000.000	51503.393	46373398.75	106.5066	A	0.4
7	☐	100000.00	102303.52	91926087.52	211.5031	A	1.1
8	☐	500000.00	499334.29	452416717.7	1,032.108	A	0.3

$$y = 0.0021 * x + 0.0564$$

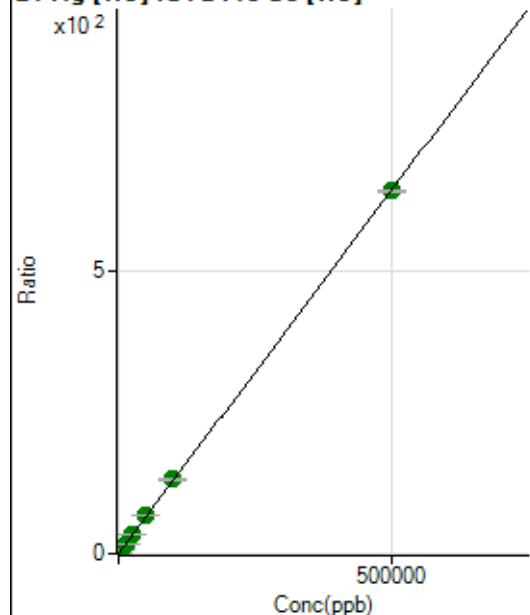
$$R = 1.0000$$

$$DL = 1.281$$

$$BEC = 27.29$$

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	916.70	0.0019	P	3.0
2	☐	500.000	495.548	306582.57	0.6388	P	0.6
3	☐	5000.000	5263.633	3207374.81	6.7667	A	8.3
4	☐	12500.000	12924.580	7652394.40	16.6125	A	0.8
5	☐	25000.000	26228.345	14902097.14	33.7105	A	0.4
6	☐	50000.000	52160.826	29188336.79	67.0388	A	1.3
7	☐	100000.00	102268.65	57127129.71	131.4372	A	1.0
8	☐	500000.00	499255.52	281257878.0	641.6433	A	0.6

$$y = 0.0013 * x + 0.0019$$

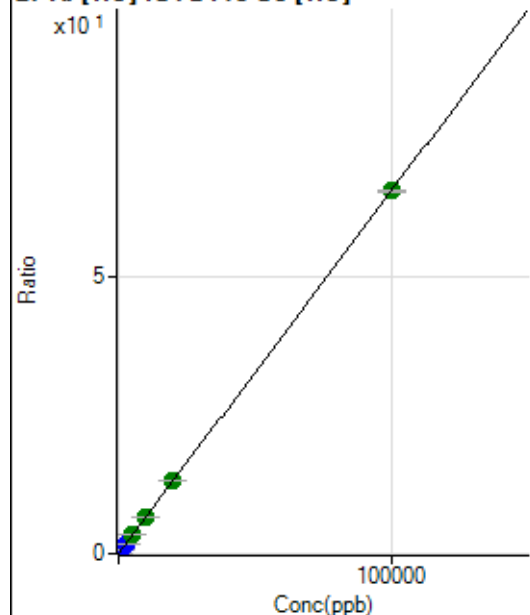
$$R = 1.0000$$

$$DL = 0.1325$$

$$BEC = 1.492$$

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	284.45	0.0006	P	6.2
2	☐	20.000	20.109	6604.80	0.0138	P	1.9
3	☐	1000.000	1074.533	333768.79	0.7042	P	8.4
4	☐	2500.000	2633.045	794475.48	1.7247	P	0.5
5	☐	5000.000	5155.831	1492717.65	3.3767	A	0.6
6	☐	10000.000	10171.749	2900298.05	6.6612	A	0.6
7	☐	20000.000	20102.160	5721411.86	13.1637	A	1.2
8	☐	100000.00	99950.530	28689080.40	65.4494	A	0.7

$$y = 6.5481E-004 * x + 5.9497E-004$$

$$R = 1.0000$$

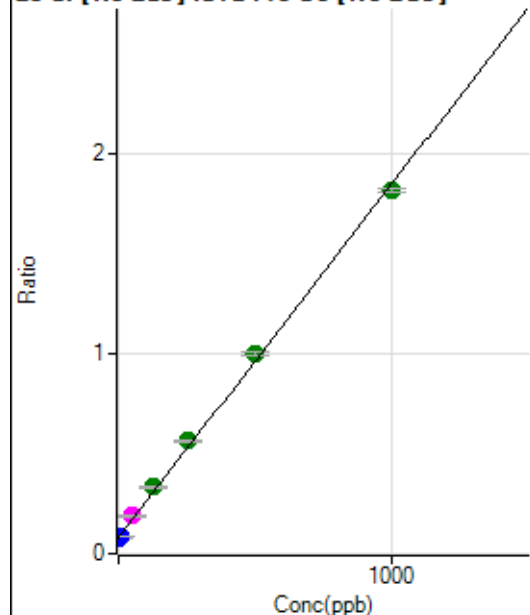
$$DL = 0.1685$$

$$BEC = 0.9086$$

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	484844.39	0.0816	P	2.9
2	☐	10.000	2.729	527631.08	0.0864	P	0.4
3	☐	50.000	61.397	1156963.15	0.1901	M	6.3
4	☐	125.000	142.575	1961394.90	0.3337	A	1.6
5	☐	250.000	273.287	3273388.18	0.5649	A	2.1
6	☐	500.000	520.596	5667948.53	1.0024	A	1.4
7	☐	1000.000	981.186	10035018.53	1.8170	A	0.9
8	☐			1015590.82	0.1827	P	4.2

$$y = 0.0018 * x + 0.0816$$

$$R = 0.9992$$

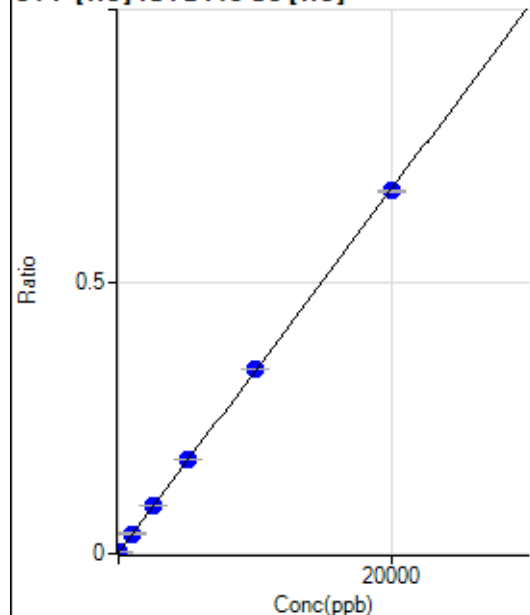
$$DL = 4.001$$

$$BEC = 46.11$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.633	504.46	0.0011	P	13.3
2	☐	0.000	15.633	1008.93	0.0021	P	5.2
3	☐	1000.000	1037.532	17216.45	0.0363	P	7.1
4	☐	2500.000	2572.907	40386.56	0.0877	P	1.3
5	☐	5000.000	5149.438	76873.87	0.1739	P	0.1
6	☐	10000.000	10113.078	148038.64	0.3400	P	0.2
7	☐	20000.000	19895.111	290053.68	0.6673	P	0.9
8	☐			572.24	0.0013	P	16.5

$$y = 3.3464E-005 * x + 0.0016$$

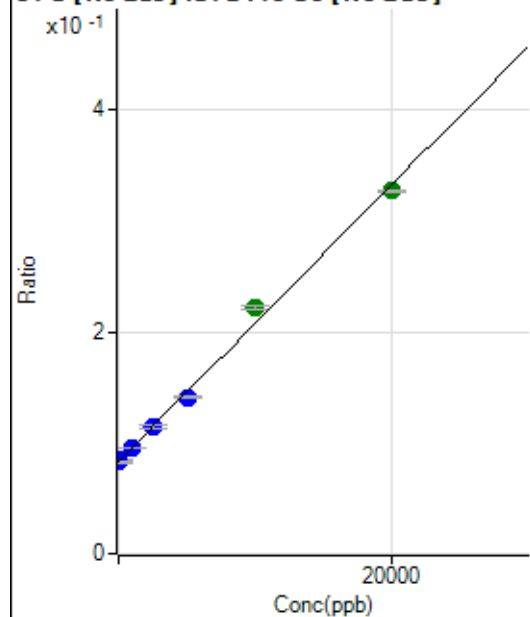
$$R = 0.9999$$

$$DL = 11.18$$

$$BEC = 47.17$$

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	76.753	501135.07	0.0843	P	3.0
2	☐	0.000	-76.753	503215.63	0.0824	P	0.3
3	☐	1000.000	975.267	581005.62	0.0955	P	0.8
4	☐	2500.000	2503.814	673003.39	0.1145	P	2.7
5	☐	5000.000	4592.412	814467.73	0.1406	P	1.3
6	☐	10000.000	11119.019	1254568.79	0.2219	A	1.3
7	☐	20000.000	19543.147	1804965.22	0.3268	A	0.6
8	☐			470557.80	0.0847	P	1.9

$$y = 1.2459\text{E-}005 * x + 0.0833$$

$$R = 0.9975$$

$$DL = 333.6$$

$$BEC = 6689$$

Weight: <None>

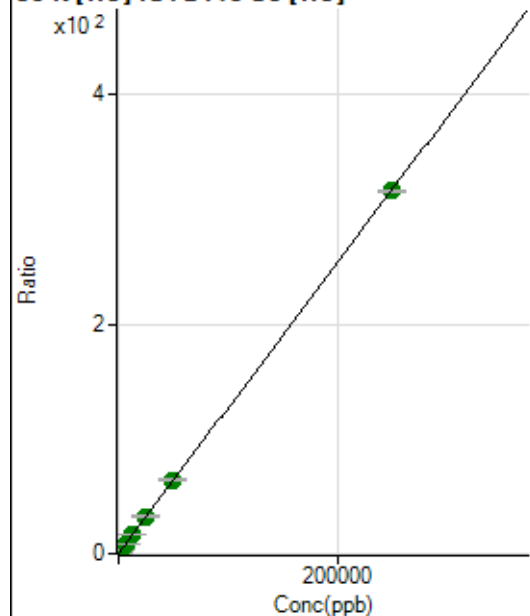
Min Conc: 0

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	95348.34	0.1994	P	0.5
2	☐	500.000	503.313	401277.78	0.8361	P	0.5
3	☐	2500.000	2647.670	1682223.24	3.5487	A	8.1
4	☐	6250.000	6433.827	3840719.77	8.3381	A	1.6
5	☐	12500.000	12943.769	7326310.93	16.5730	A	0.4
6	☐	25000.000	25647.107	14212345.34	32.6425	A	1.2
7	☐	50000.000	50727.793	27977382.36	64.3691	A	0.7
8	☐	250000.00	249761.46	138578331.2	316.1430	A	0.5

$$y = 0.0013 * x + 0.1994$$

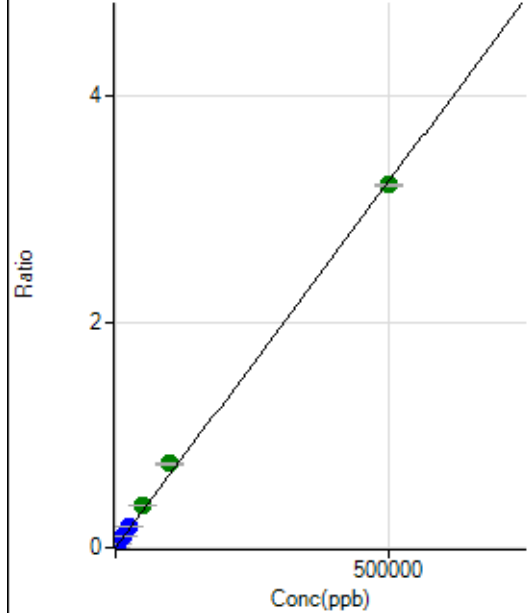
$$R = 1.0000$$

$$DL = 2.129$$

$$BEC = 157.6$$

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	448.90	0.0001	P	10.4
2	☐	500.000	505.607	20485.03	0.0034	P	1.2
3	☐	5000.000	6039.781	238715.41	0.0392	P	0.5
4	☐	12500.000	15268.898	582215.60	0.0991	P	1.7
5	☐	25000.000	29906.518	1123940.64	0.1940	P	1.7
6	☐	50000.000	58384.576	2140864.86	0.3786	A	0.9
7	☐	100000.00	115109.84	4121709.48	0.7464	A	1.7
8	☐	500000.00	495814.62	17868494.73	3.2146	A	0.7

$$y = 6.4833\text{E-}006 * x + 7.5604\text{E-}005$$

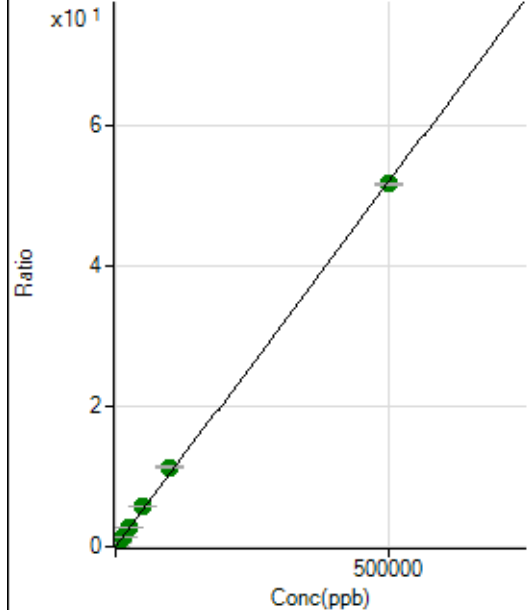
$$R = 0.9994$$

$$DL = 3.649$$

$$BEC = 11.66$$

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	16224.32	0.0027	P	4.4
2	☐	500.000	507.363	338781.67	0.0555	P	0.6
3	☐	5000.000	5499.802	3494735.71	0.5744	A	0.9
4	☐	12500.000	13768.435	8425133.14	1.4338	A	2.4
5	☐	25000.000	27204.905	16399333.09	2.8303	A	2.2
6	☐	50000.000	54685.339	32154720.91	5.6865	A	1.5
7	☐	100000.00	109372.59	62791531.84	11.3704	A	1.9
8	☐	500000.00	497509.98	287441422.3	51.7115	A	0.7

$$y = 1.0394\text{E-}004 * x + 0.0027$$

$$R = 0.9998$$

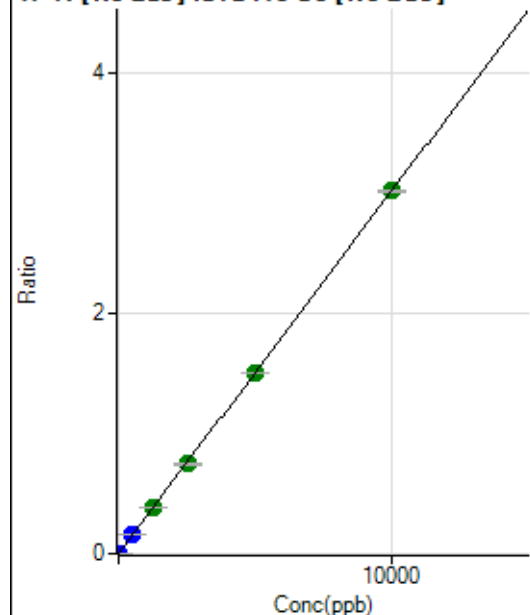
$$DL = 3.49$$

$$BEC = 26.26$$

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	104.45	0.0000	P	15.3
2	☐	5.000	4.917	9161.73	0.0015	P	2.3
3	☐	500.000	509.059	934060.76	0.1535	P	0.9
4	☐	1250.000	1266.083	2243672.78	0.3818	A	1.8
5	☐	2500.000	2488.062	4347200.39	0.7502	A	2.0
6	☐	5000.000	4987.044	8503430.43	1.5038	A	0.8
7	☐	10000.000	10006.999	16664836.00	3.0175	A	0.6
8	☐			3472.66	0.0006	P	8.0

$$y = 3.0153\text{E-}004 * x + 1.7518\text{E-}005$$

$$R = 1.0000$$

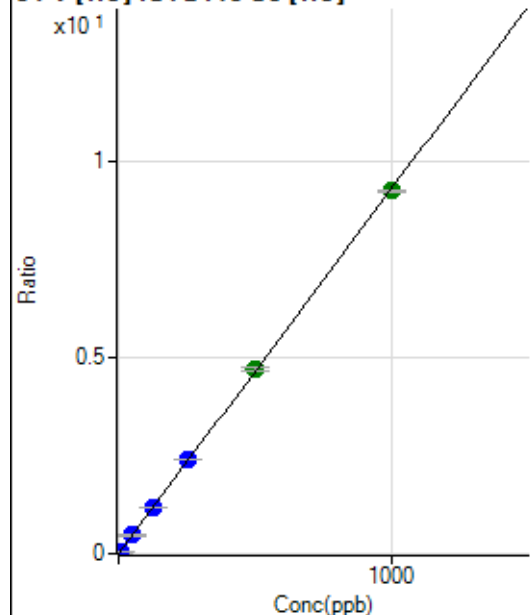
$$DL = 0.02666$$

$$BEC = 0.05809$$

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	42.22	0.0001	P	36.9
2	☐	5.000	4.923	21992.77	0.0458	P	1.8
3	☐	50.000	51.940	228749.52	0.4826	P	8.4
4	☐	125.000	127.240	544531.26	1.1821	P	0.8
5	☐	250.000	258.052	1059783.08	2.3974	P	0.9
6	☐	500.000	506.877	2050225.02	4.7089	A	1.7
7	☐	1000.000	994.172	4014281.61	9.2359	A	0.9
8	☐			1588.99	0.0036	P	4.6

$$y = 0.0093 * x + 8.8233\text{E-}005$$

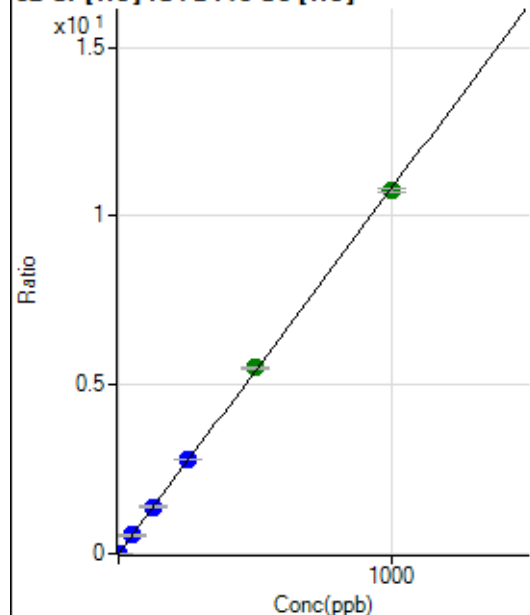
$$R = 0.9999$$

$$DL = 0.01052$$

$$BEC = 0.009498$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	965.60	0.0020	P	2.9
2	☐	2.000	1.992	11306.55	0.0236	P	1.5
3	☐	50.000	52.130	268051.98	0.5658	P	9.1
4	☐	125.000	128.291	639995.95	1.3894	P	0.8
5	☐	250.000	257.690	1232792.17	2.7887	P	0.6
6	☐	500.000	508.893	2396987.38	5.5053	A	1.2
7	☐	1000.000	993.113	4668704.17	10.7418	A	1.1
8	☐			95277.14	0.2174	P	0.5

$$y = 0.0108 * x + 0.0020$$

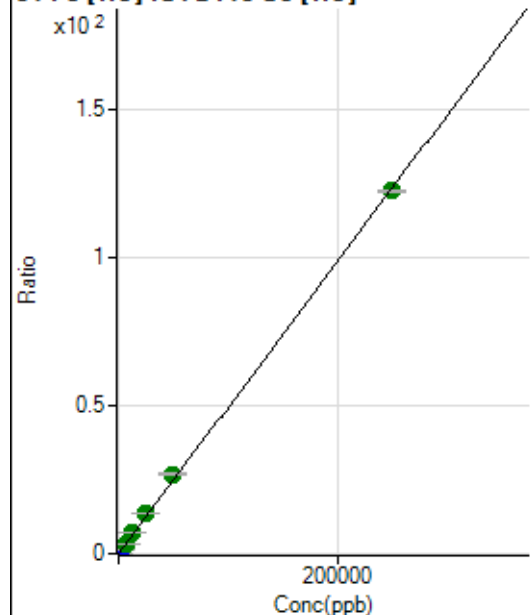
$$R = 0.9999$$

$$DL = 0.01643$$

$$BEC = 0.1867$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2540.25	0.0053	P	1.2
2	☐	50.000	55.323	15622.62	0.0326	P	1.4
3	☐	2500.000	2967.843	695264.42	1.4666	P	8.0
4	☐	6250.000	6976.892	1584889.26	3.4406	A	0.6
5	☐	12500.000	14124.003	3076651.73	6.9598	A	0.3
6	☐	25000.000	27624.731	5924758.52	13.6074	A	0.1
7	☐	50000.000	54423.833	11649329.13	26.8029	A	1.2
8	☐	250000.00	248748.70	53690686.42	122.4858	A	0.4

$$y = 4.9239E-004 * x + 0.0053$$

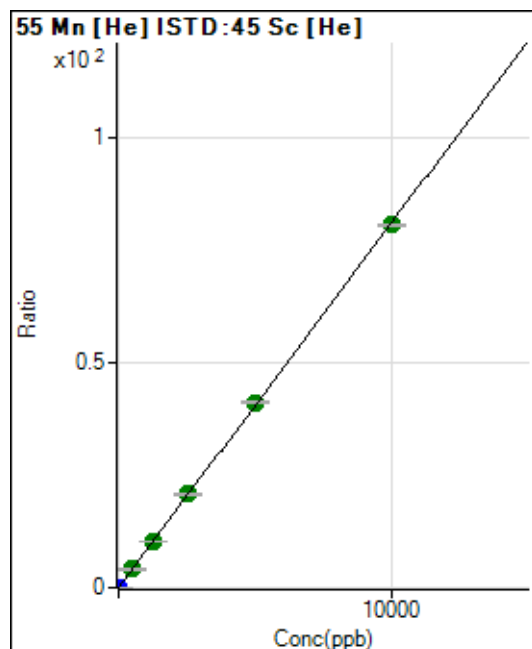
$$R = 0.9998$$

$$DL = 0.3845$$

$$BEC = 10.79$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	337.79	0.0007	P	7.2
2	☐	1.000	0.945	4019.47	0.0084	P	3.0
3	☐	500.000	518.451	1995616.24	4.2089	A	7.7
4	☐	1250.000	1270.449	4750432.88	10.3127	A	0.2
5	☐	2500.000	2559.819	9185398.27	20.7783	A	0.7
6	☐	5000.000	5071.508	17923397.51	41.1653	A	1.2
7	☐	10000.000	9945.812	35087920.87	80.7292	A	0.9
8	☐			28013.92	0.0639	P	1.1

$$y = 0.0081 * x + 7.0655E-004$$

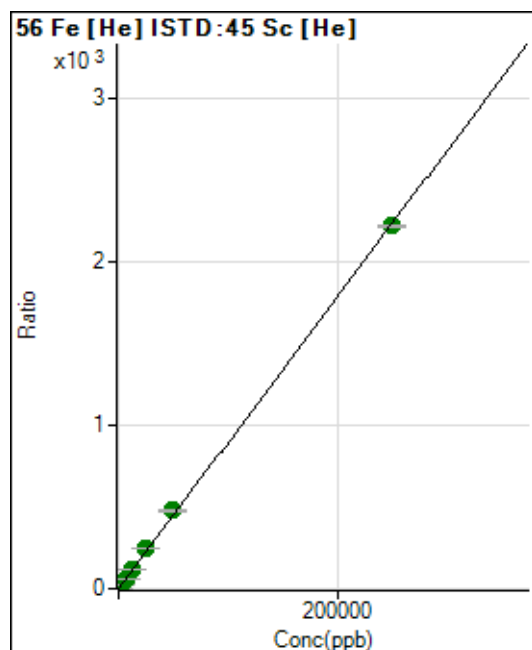
$$R = 0.9999$$

$$DL = 0.01881$$

$$BEC = 0.08705$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16658.19	0.0348	P	1.0
2	☐	50.000	54.486	250266.96	0.5215	P	1.0
3	☐	2500.000	2794.936	11849890.10	24.9970	A	8.0
4	☐	6250.000	6817.798	28064947.08	60.9260	A	0.4
5	☐	12500.000	13809.597	54537686.96	123.3713	A	0.4
6	☐	25000.000	27279.268	106094686.1	243.6717	A	0.7
7	☐	50000.000	53573.781	207978061.3	478.5135	A	1.1
8	☐	250000.00	248974.69	974724243.2	2,223.680	A	0.3

$$y = 0.0089 * x + 0.0348$$

$$R = 0.9999$$

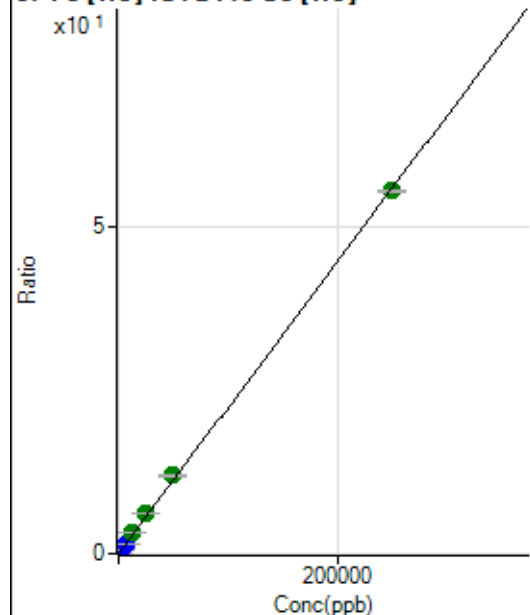
$$DL = 0.114$$

$$BEC = 3.901$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	845.59	0.0018	P	5.8
2	☐	50.000	55.864	6823.82	0.0142	P	0.4
3	☐	2500.000	2938.607	311133.00	0.6566	P	9.0
4	☐	6250.000	7200.854	739995.15	1.6065	P	0.5
5	☐	12500.000	14022.461	1382151.44	3.1266	A	1.1
6	☐	25000.000	27407.005	2660009.39	6.1094	A	0.9
7	☐	50000.000	53671.080	5198777.91	11.9622	A	2.5
8	☐	250000.00	248920.80	24316258.53	55.4732	A	0.5

$$y = 2.2285E-004 * x + 0.0018$$

R = 0.9999

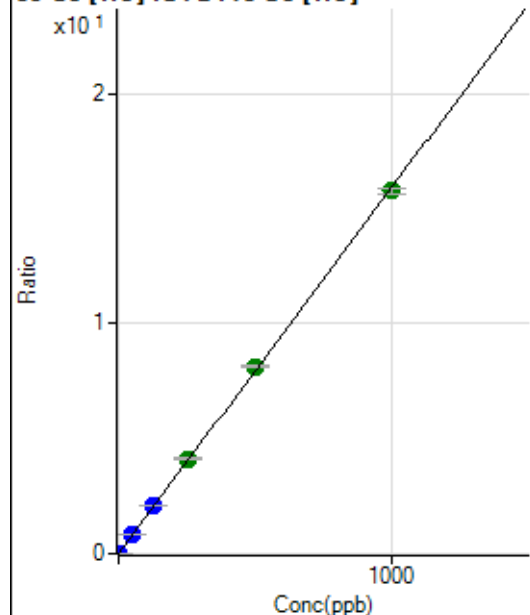
DL = 1.391

BEC = 7.937

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	161.11	0.0003	P	14.9
2	☐	1.000	1.004	7823.21	0.0163	P	3.1
3	☐	50.000	52.777	398018.27	0.8398	P	8.5
4	☐	125.000	129.796	951189.75	2.0649	P	0.4
5	☐	250.000	258.939	1820894.44	4.1192	A	1.2
6	☐	500.000	510.949	3538835.33	8.1278	A	1.1
7	☐	1000.000	991.553	6855185.46	15.7726	A	1.5
8	☐			20734.43	0.0473	P	1.3

$$y = 0.0159 * x + 3.3702E-004$$

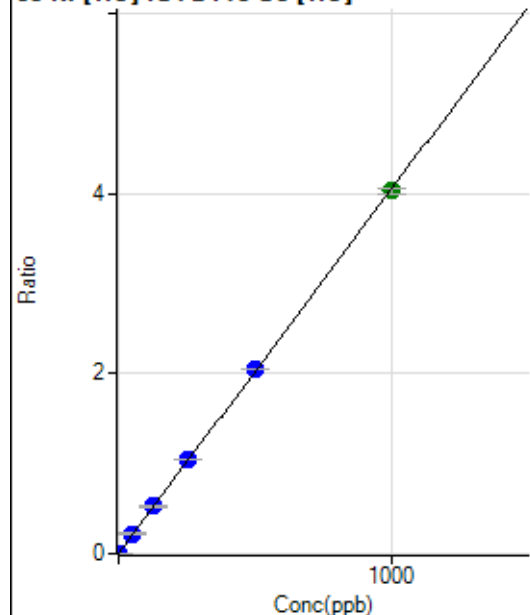
R = 0.9999

DL = 0.009475

BEC = 0.02119

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	797.81	0.0017	P	8.8
2	☐	1.000	0.957	2661.37	0.0055	P	5.0
3	☐	50.000	52.903	102344.82	0.2159	P	8.2
4	☐	125.000	129.015	241437.85	0.5241	P	0.4
5	☐	250.000	256.658	460205.02	1.0410	P	0.8
6	☐	500.000	505.387	891836.54	2.0483	P	0.6
7	☐	1000.000	994.995	1752051.80	4.0311	A	1.4
8	☐			25430.49	0.0580	P	1.2

$$y = 0.0040 * x + 0.0017$$

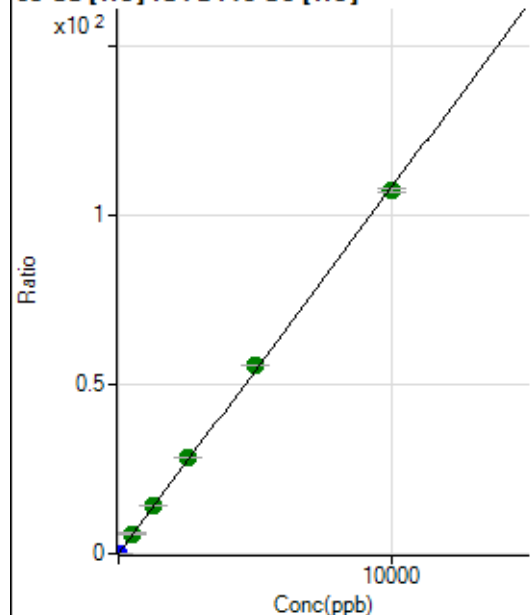
$$R = 1.0000$$

$$DL = 0.1091$$

$$BEC = 0.4121$$

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	1111.16	0.0023	P	5.4
2	☐	2.000	1.957	11289.89	0.0235	P	1.2
3	☐	500.000	541.104	2778198.67	5.8628	A	8.8
4	☐	1250.000	1301.431	6493831.64	14.0977	A	0.8
5	☐	2500.000	2608.887	12491991.48	28.2583	A	0.1
6	☐	5000.000	5121.073	24150767.14	55.4670	A	0.1
7	☐	10000.000	9903.758	46621812.08	107.2666	A	0.9
8	☐			14550.55	0.0332	P	2.8

$$y = 0.0108 * x + 0.0023$$

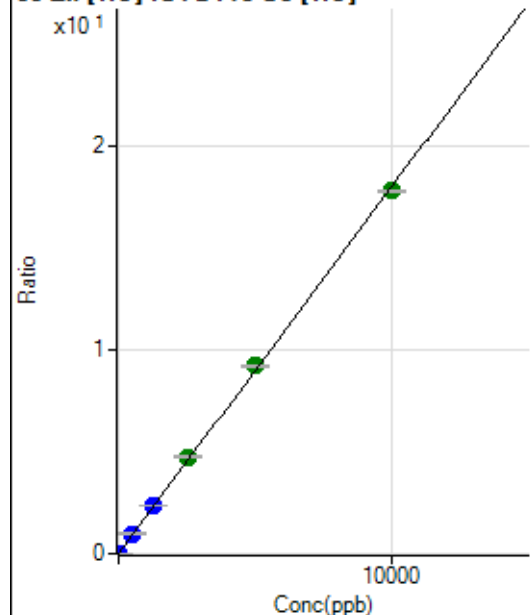
$$R = 0.9998$$

$$DL = 0.03492$$

$$BEC = 0.2146$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	843.37	0.0018	P	8.4
2	☐	5.000	5.073	5227.64	0.0109	P	0.8
3	☐	500.000	531.657	454097.96	0.9584	P	8.9
4	☐	1250.000	1315.905	1091472.86	2.3695	P	0.4
5	☐	2500.000	2643.219	2103179.90	4.7577	A	1.1
6	☐	5000.000	5115.370	4008308.31	9.2059	A	0.3
7	☐	10000.000	9896.689	7740463.77	17.8090	A	0.8
8	☐			7633.14	0.0174	P	0.9

$$y = 0.0018 * x + 0.0018$$

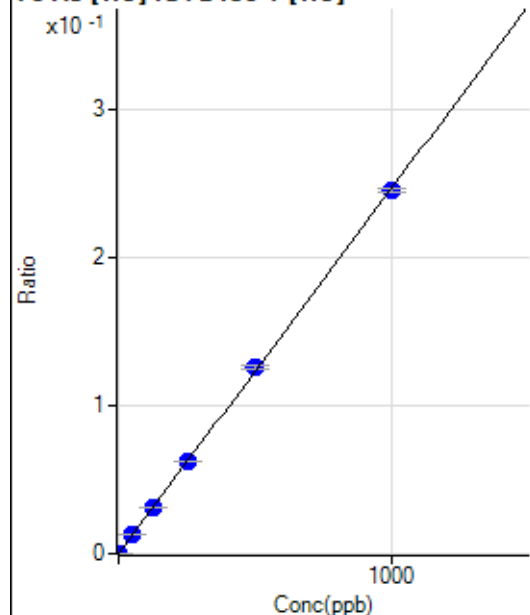
$$R = 0.9998$$

$$DL = 0.247$$

$$BEC = 0.9805$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	74.8
2	☐	1.000	1.090	597.79	0.0003	P	6.8
3	☐	50.000	53.435	28131.14	0.0132	P	5.4
4	☐	125.000	128.271	66890.80	0.0317	P	0.2
5	☐	250.000	254.441	129774.38	0.0629	P	0.5
6	☐	500.000	509.989	252414.85	0.1260	P	1.4
7	☐	1000.000	993.315	494324.19	0.2454	P	1.0
8	☐			362.23	0.0002	P	15.1

$$y = 2.4708E-004 * x + 5.0471E-006$$

$$R = 0.9999$$

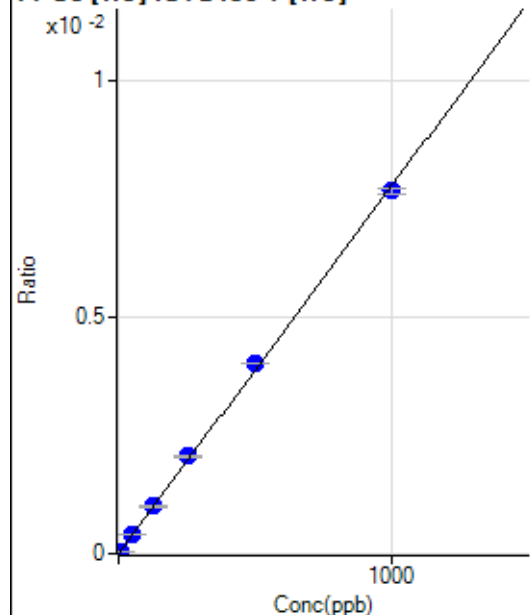
$$DL = 0.04583$$

$$BEC = 0.02043$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.121	86.67	0.0000	P	14.2
3	☐	50.000	53.772	891.15	0.0004	P	1.9
4	☐	125.000	129.575	2123.51	0.0010	P	3.4
5	☐	250.000	264.907	4247.32	0.0021	P	1.3
6	☐	500.000	516.788	8041.13	0.0040	P	0.4
7	☐	1000.000	987.118	15441.46	0.0077	P	1.4
8	☐			8.89	0.0000	P	43.1

$$y = 7.7668\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

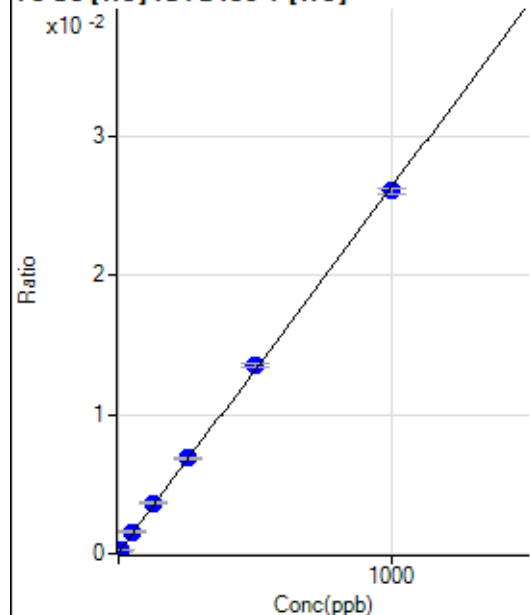
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	208.89	0.0001	P	7.0
2	☐	5.000	4.730	477.79	0.0002	P	11.2
3	☐	50.000	54.629	3249.28	0.0015	P	9.0
4	☐	125.000	133.981	7614.24	0.0036	P	3.1
5	☐	250.000	258.785	14203.56	0.0069	P	1.6
6	☐	500.000	514.009	27188.35	0.0136	P	2.0
7	☐	1000.000	989.447	52446.88	0.0260	P	1.3
8	☐			212.23	0.0001	P	19.4

$$y = 2.6222\text{E-}005 * x + 9.5328\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.7656$$

$$BEC = 3.635$$

Weight: <None>

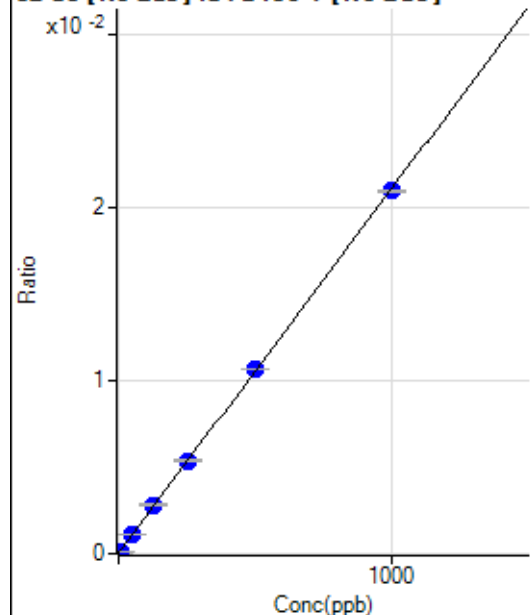
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22678.63		P	2.5
2	☐			22912.40		P	1.2
3	☐			23073.71		P	0.7
4	☐			22195.71		P	0.9
5	☐			20679.07		P	1.7
6	☐			20436.47		P	0.9
7	☐			19695.49		P	1.3
8	☐			19800.07		P	2.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			180.00		P	0.0
2	☐			144.45		P	31.3
3	☐			111.11		P	33.0
4	☐			105.56		P	9.1
5	☐			92.23		P	31.2
6	☐			110.00		P	19.9
7	☐			84.45		P	23.1
8	☐			95.55		P	4.0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	320.42	0.0000	P	6.1
2	☐	5.000	4.988	1350.17	0.0001	P	2.6
3	☐	50.000	51.006	10797.59	0.0011	P	0.7
4	☐	125.000	132.183	26331.52	0.0028	P	1.4
5	☐	250.000	254.189	50780.29	0.0054	P	1.2
6	☐	500.000	506.826	98168.47	0.0107	P	0.4
7	☐	1000.000	994.592	188740.73	0.0210	P	0.8
8	☐			349.43	0.0000	P	4.8

$$y = 2.1035\text{E-}005 * x + 3.3567\text{E-}005$$

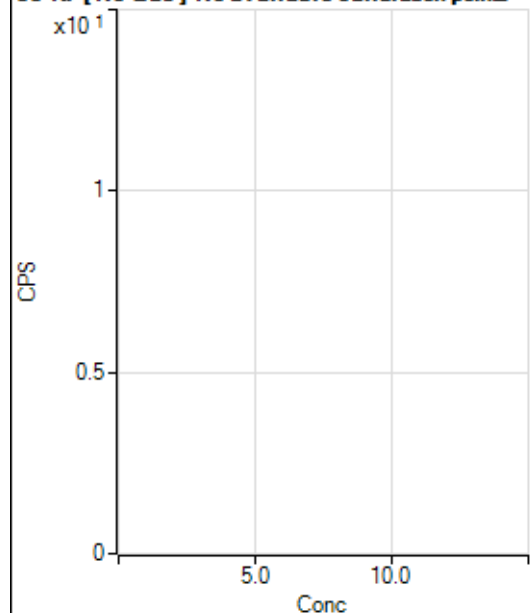
$$R = 0.9999$$

$$DL = 0.2944$$

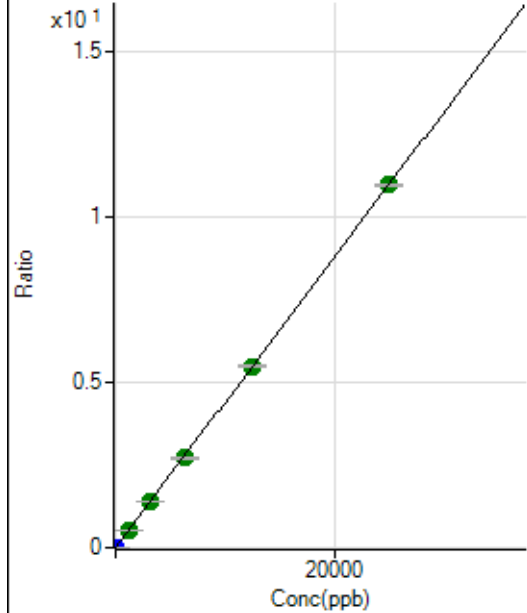
$$BEC = 1.596$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			213.34		P	12.4
2	☐			198.89		P	12.8
3	☐			204.45		P	2.5
4	☐			185.56		P	8.9
5	☐			183.34		P	8.3
6	☐			182.23		P	19.0
7	☐			225.56		P	9.0
8	☐			207.78		P	3.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	378.90	0.0000	P	18.1
2	☐	1.000	0.952	4461.83	0.0005	P	1.8
3	☐	1250.000	1248.961	5351487.77	0.5484	A	0.8
4	☐	3125.000	3185.482	13087318.14	1.3987	A	1.9
5	☐	6250.000	6178.716	25602474.34	2.7130	A	1.9
6	☐	12500.000	12477.873	50289138.69	5.4788	A	0.9
7	☐	25000.000	25021.376	98954651.86	10.9864	A	0.6
8	☐			18234.80	0.0021	P	8.7

$$y = 4.3908\text{E-}004 * x + 3.9759\text{E-}005$$

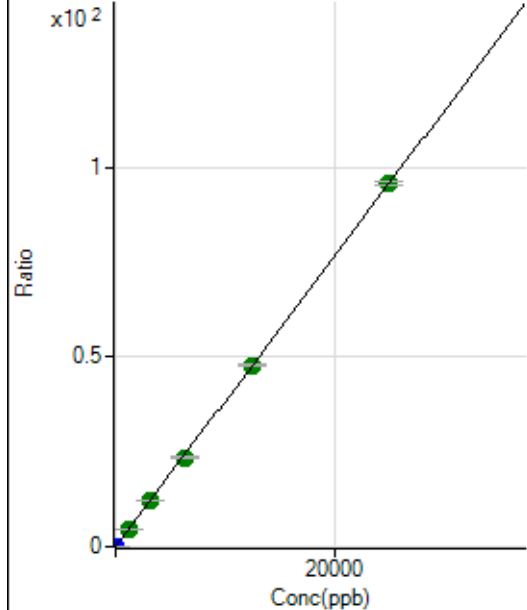
$$R = 1.0000$$

$$DL = 0.04917$$

$$BEC = 0.09055$$

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	600.02	0.0001	P	10.8
2	☐	1.000	0.949	35979.56	0.0037	P	0.1
3	☐	1250.000	1244.589	46438970.97	4.7591	A	0.3
4	☐	3125.000	3170.581	113435119.4	12.1236	A	1.7
5	☐	6250.000	6158.253	222222250.0	23.5477	A	1.8
6	☐	12500.000	12480.196	438028140.1	47.7213	A	1.0
7	☐	25000.000	25027.412	861942387.1	95.6987	A	0.9
8	☐			158473.82	0.0181	P	7.9

$$y = 0.0038 * x + 6.2912\text{E-}005$$

$$R = 1.0000$$

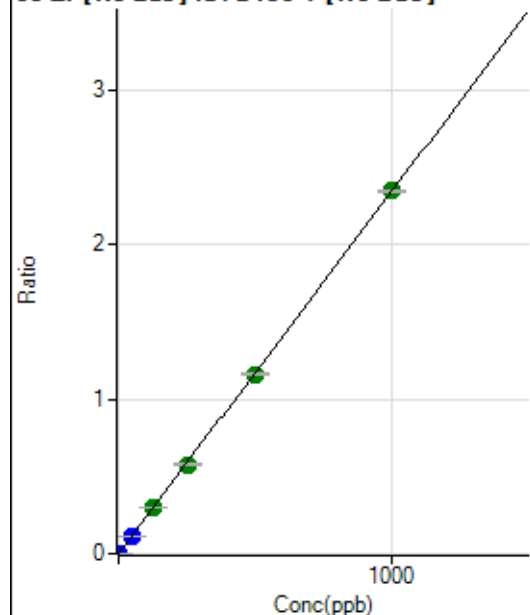
$$DL = 0.005353$$

$$BEC = 0.01645$$

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	646.69	0.0001	P	16.8
2	☐	1.000	0.924	21728.37	0.0022	P	0.9
3	☐	50.000	50.205	1146707.25	0.1175	P	0.8
4	☐	125.000	127.983	2801839.57	0.2995	A	2.2
5	☐	250.000	246.090	5433712.14	0.5758	A	1.5
6	☐	500.000	496.605	10664709.98	1.1618	A	0.2
7	☐	1000.000	1002.292	21120116.77	2.3448	A	0.6
8	☐			11517.93	0.0013	P	3.4

$$y = 0.0023 * x + 6.7847E-005$$

$$R = 1.0000$$

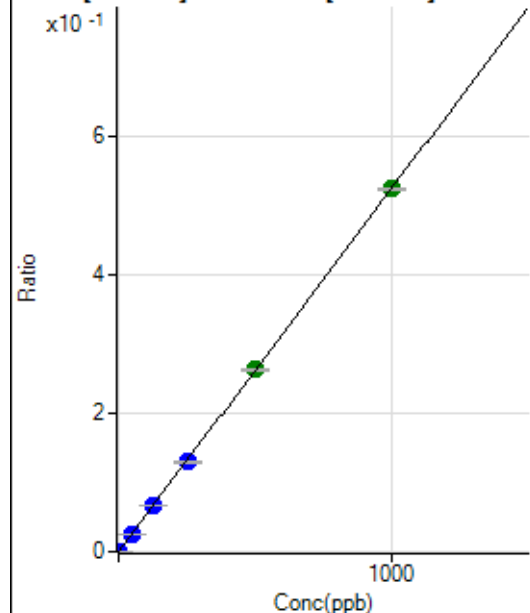
$$DL = 0.01458$$

$$BEC = 0.029$$

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	132.23	0.0000	P	8.1
2	☐	1.000	0.928	4891.98	0.0005	P	2.1
3	☐	50.000	49.788	255404.30	0.0262	P	1.0
4	☐	125.000	128.167	630286.60	0.0674	P	1.0
5	☐	250.000	246.921	1224512.66	0.1298	P	1.9
6	☐	500.000	501.903	2420860.38	0.2637	A	0.7
7	☐	1000.000	999.433	4730075.55	0.5252	A	0.6
8	☐			2455.79	0.0003	P	1.9

$$y = 5.2544E-004 * x + 1.3851E-005$$

$$R = 1.0000$$

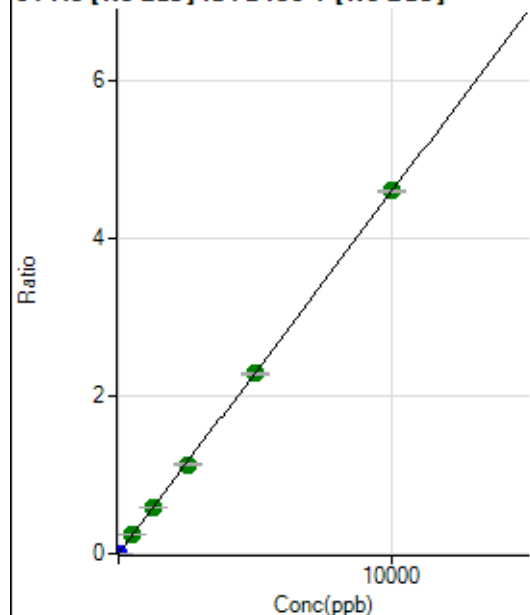
$$DL = 0.006375$$

$$BEC = 0.02636$$

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	266.67	0.0000	P	10.5
2	☐	5.000	5.618	25449.95	0.0026	P	0.9
3	☐	500.000	506.265	2271019.58	0.2327	A	0.3
4	☐	1250.000	1271.901	5470700.13	0.5846	A	1.1
5	☐	2500.000	2454.427	10646860.88	1.1282	A	1.8
6	☐	5000.000	4973.719	20985627.88	2.2862	A	0.9
7	☐	10000.000	10021.482	41489459.10	4.6063	A	0.5
8	☐			19771.20	0.0023	P	4.0

$$y = 4.5964\text{E-}004 * x + 2.7907\text{E-}005$$

$$R = 1.0000$$

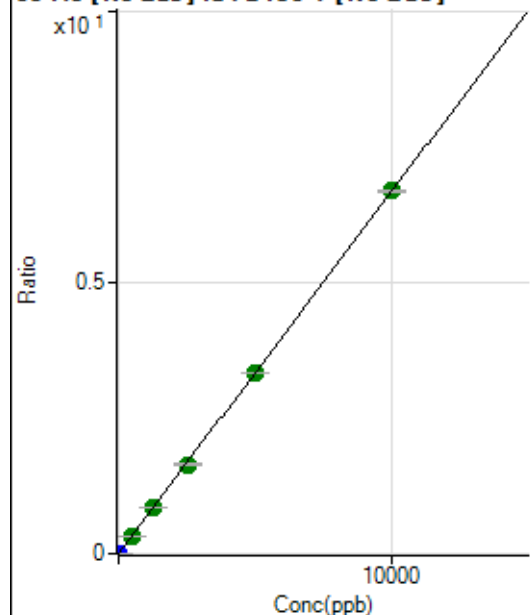
$$DL = 0.01908$$

$$BEC = 0.06071$$

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	106.67	0.0000	P	21.1
2	☐	5.000	4.682	30615.33	0.0031	P	2.6
3	☐	500.000	500.227	3262189.08	0.3343	A	1.3
4	☐	1250.000	1268.968	7936026.90	0.8481	A	1.1
5	☐	2500.000	2446.744	15431851.44	1.6352	A	2.1
6	☐	5000.000	4983.060	30569912.32	3.3303	A	0.2
7	☐	10000.000	10019.402	60314062.99	6.6963	A	0.4
8	☐			27658.43	0.0032	P	2.7

$$y = 6.6833\text{E-}004 * x + 1.1185\text{E-}005$$

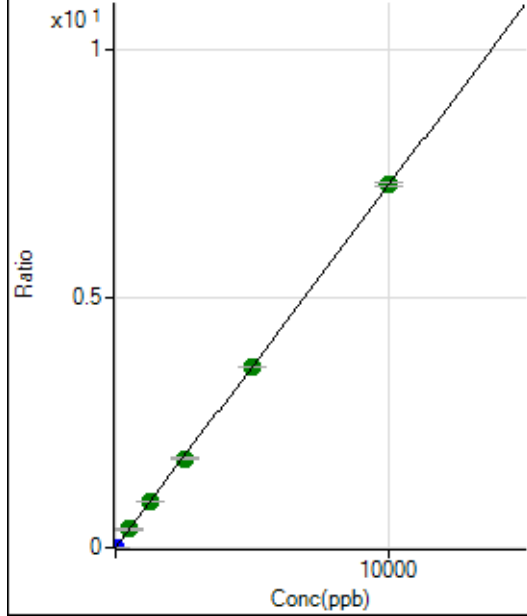
$$R = 1.0000$$

$$DL = 0.01061$$

$$BEC = 0.01674$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	3.0
2	☐	5.000	4.747	33757.81	0.0035	P	1.1
3	☐	500.000	504.454	3575600.33	0.3664	A	1.0
4	☐	1250.000	1269.487	8628302.65	0.9221	A	1.4
5	☐	2500.000	2460.846	16869232.80	1.7875	A	1.9
6	☐	5000.000	4985.496	33240169.78	3.6214	A	0.8
7	☐	10000.000	10014.382	65516900.69	7.2742	A	1.0
8	☐			35688.00	0.0041	P	4.6

$$y = 7.2638\text{E-}004 * x + 1.4547\text{E-}005$$

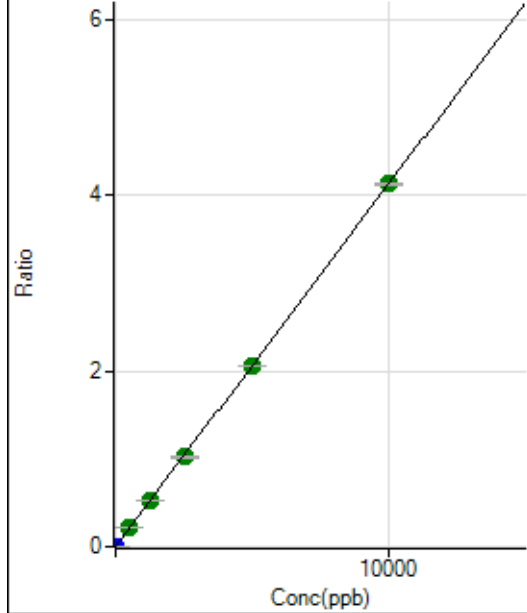
$$R = 1.0000$$

$$DL = 0.001809$$

$$BEC = 0.02003$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0000	P	5.7
2	☐	5.000	4.726	19069.15	0.0020	P	1.3
3	☐	500.000	507.014	2041378.93	0.2092	A	0.6
4	☐	1250.000	1271.932	4910743.89	0.5248	A	1.2
5	☐	2500.000	2477.042	9645447.22	1.0221	A	1.5
6	☐	5000.000	4987.735	18890479.58	2.0580	A	0.8
7	☐	10000.000	10008.780	37195790.56	4.1297	A	0.9
8	☐			16916.55	0.0019	P	2.5

$$y = 4.1261\text{E-}004 * x + 5.7054\text{E-}006$$

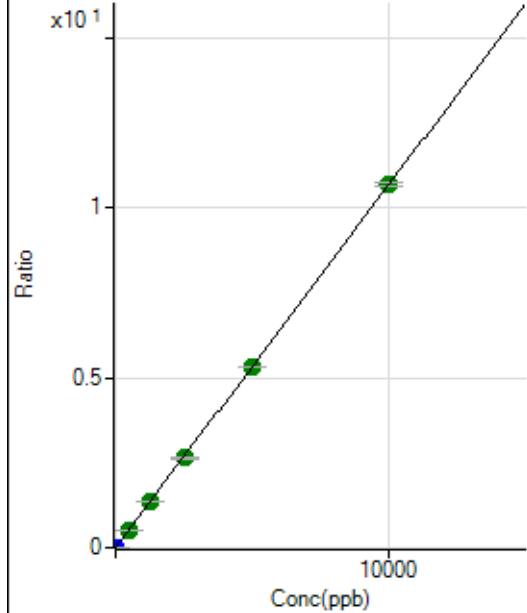
$$R = 1.0000$$

$$DL = 0.002347$$

$$BEC = 0.01383$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0000	P	11.9
2	☐	5.000	4.715	49223.57	0.0050	P	1.4
3	☐	500.000	495.118	5159393.92	0.5288	A	1.0
4	☐	1250.000	1274.622	12737439.95	1.3612	A	0.8
5	☐	2500.000	2478.088	24973960.46	2.6464	A	2.0
6	☐	5000.000	4988.024	48894277.05	5.3268	A	0.6
7	☐	10000.000	10008.633	96265907.45	10.6883	A	1.1
8	☐			42605.41	0.0049	P	4.5

$$y = 0.0011 * x + 1.3251E-005$$

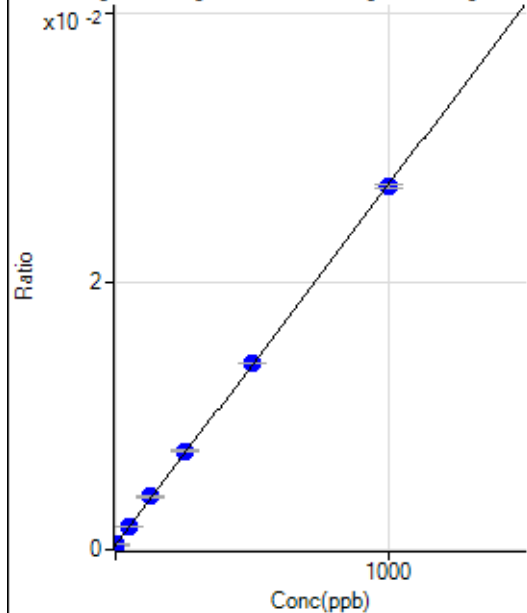
$$R = 1.0000$$

$$DL = 0.004423$$

$$BEC = 0.01241$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4256.22	0.0003	P	3.1
2	☐	1.000	1.556	4925.33	0.0004	P	3.2
3	☐	50.000	53.317	22895.87	0.0018	P	1.2
4	☐	125.000	134.097	49815.04	0.0040	P	1.4
5	☐	250.000	260.572	93382.82	0.0074	P	1.4
6	☐	500.000	505.657	176386.57	0.0140	P	0.4
7	☐	1000.000	993.225	335735.15	0.0271	P	1.2
8	☐			4437.39	0.0004	P	1.8

$$y = 2.6921E-005 * x + 3.4349E-004$$

$$R = 0.9999$$

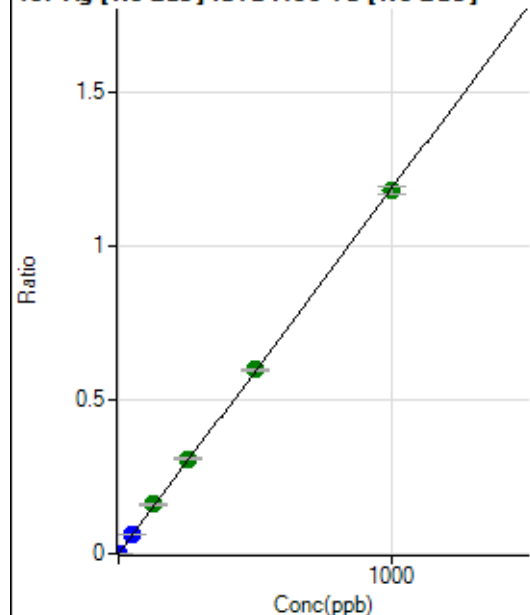
$$DL = 1.197$$

$$BEC = 12.76$$

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	73.33	0.0000	P	11.3
2	☐	1.000	0.972	14796.51	0.0012	P	0.9
3	☐	50.000	54.313	828613.61	0.0644	P	0.7
4	☐	125.000	135.251	2019859.03	0.1603	A	1.3
5	☐	250.000	259.359	3900848.79	0.3074	A	1.8
6	☐	500.000	503.531	7541757.73	0.5968	A	1.2
7	☐	1000.000	994.398	14609108.67	1.1785	A	2.0
8	☐			3158.16	0.0003	P	9.9

$$y = 0.0012 * x + 5.9256E-006$$

$$R = 0.9999$$

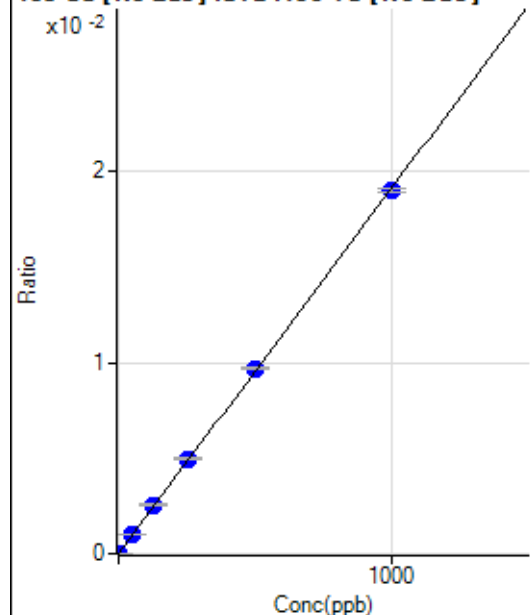
$$DL = 0.001689$$

$$BEC = 0.005$$

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	10.00	0.0000	P	33.5
2	☐	1.000	0.962	245.56	0.0000	P	10.1
3	☐	50.000	54.087	13329.57	0.0010	P	0.3
4	☐	125.000	133.628	32223.58	0.0026	P	1.0
5	☐	250.000	259.132	62923.48	0.0050	P	1.7
6	☐	500.000	506.456	122460.21	0.0097	P	0.7
7	☐	1000.000	993.206	235569.17	0.0190	P	1.0
8	☐			151.11	0.0000	P	7.9

$$y = 1.9131E-005 * x + 8.0825E-007$$

$$R = 0.9999$$

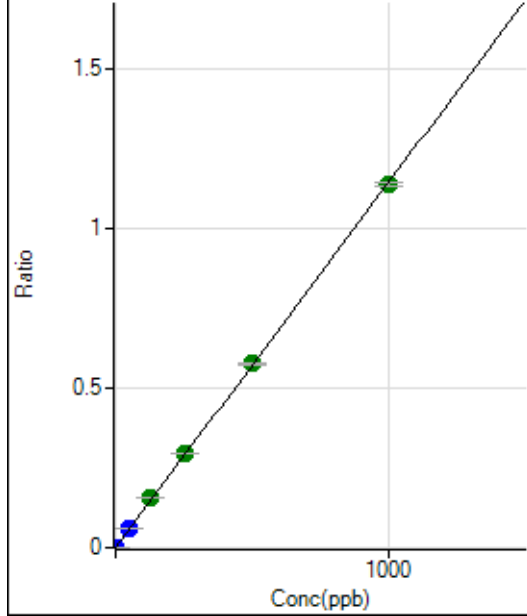
$$DL = 0.04244$$

$$BEC = 0.04225$$

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	41.5
2	☐	1.000	0.983	14377.22	0.0011	P	1.6
3	☐	50.000	53.652	788632.73	0.0613	P	0.4
4	☐	125.000	137.295	1975213.69	0.1568	A	2.1
5	☐	250.000	258.681	3748778.87	0.2954	A	1.1
6	☐	500.000	504.808	7285062.25	0.5764	A	0.9
7	☐	1000.000	993.706	14066846.32	1.1347	A	1.0
8	☐			3087.02	0.0003	P	10.7

$$y = 0.0011 * x + 2.7597E-006$$

$$R = 0.9999$$

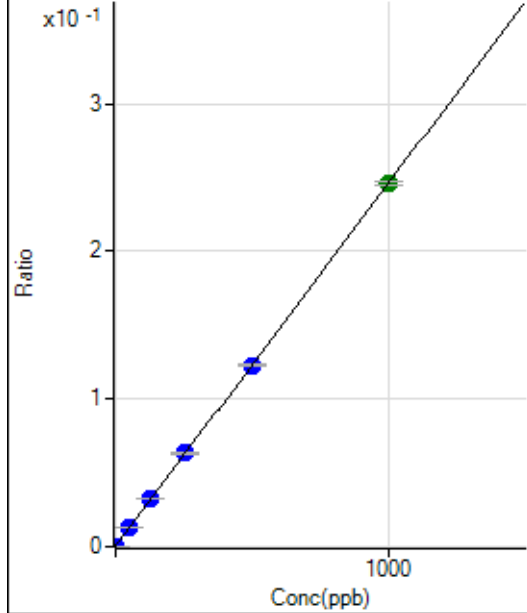
$$DL = 0.003012$$

$$BEC = 0.002417$$

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	3011.24	0.0002	P	3.1
2	☐	1.000	1.064	6450.67	0.0005	P	0.8
3	☐	50.000	52.922	170598.92	0.0133	P	0.7
4	☐	125.000	132.391	413184.55	0.0328	P	1.3
5	☐	250.000	257.050	805075.17	0.0634	P	1.5
6	☐	500.000	498.123	1550801.88	0.1227	P	0.7
7	☐	1000.000	998.106	3045033.77	0.2456	A	1.1
8	☐			3758.20	0.0003	P	4.4

$$y = 2.4585E-004 * x + 2.4300E-004$$

$$R = 1.0000$$

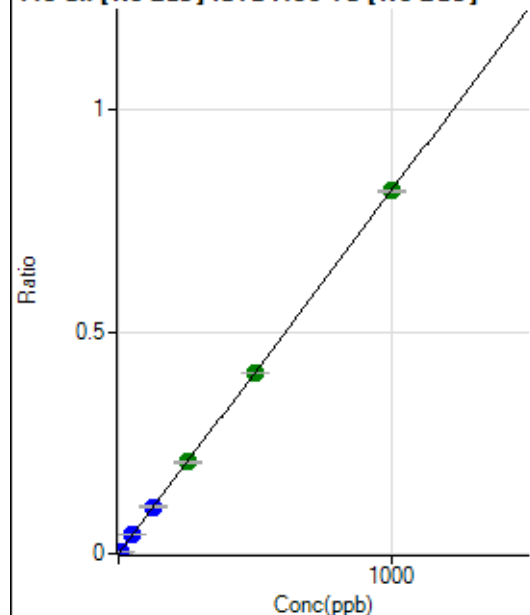
$$DL = 0.09136$$

$$BEC = 0.9884$$

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	2521.38	0.0002	P	5.6
2	☐	5.000	4.923	54093.72	0.0042	P	0.2
3	☐	50.000	51.211	542020.26	0.0421	P	0.7
4	☐	125.000	128.978	1332485.70	0.1057	P	1.1
5	☐	250.000	253.181	2631844.20	0.2074	A	2.0
6	☐	500.000	498.805	5161079.33	0.4084	A	0.6
7	☐	1000.000	999.245	10139826.52	0.8179	A	0.7
8	☐			11680.38	0.0010	P	3.0

$$y = 8.1831\text{E-}004 * x + 2.0337\text{E-}004$$

$$R = 1.0000$$

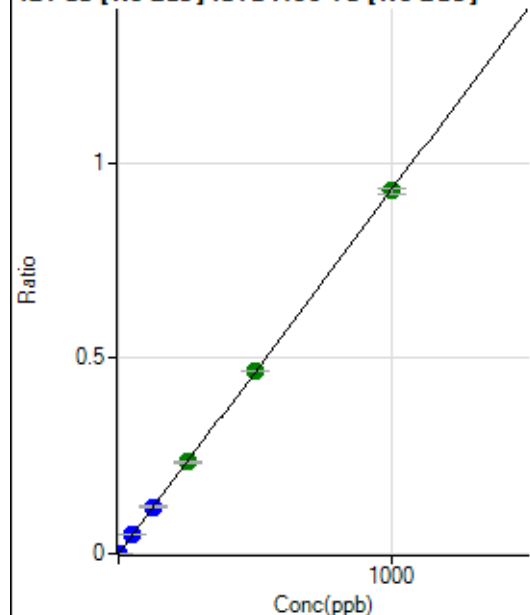
$$DL = 0.04138$$

$$BEC = 0.2485$$

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	111.11	0.0000	P	17.7
2	☐	2.000	1.959	23389.09	0.0018	P	1.3
3	☐	50.000	51.154	612255.60	0.0476	P	1.0
4	☐	125.000	128.745	1508257.13	0.1197	P	1.5
5	☐	250.000	251.995	2973166.90	0.2343	A	2.5
6	☐	500.000	502.570	5905189.91	0.4673	A	0.3
7	☐	1000.000	997.691	11498637.33	0.9276	A	1.5
8	☐			7897.80	0.0007	P	4.3

$$y = 9.2971\text{E-}004 * x + 8.9776\text{E-}006$$

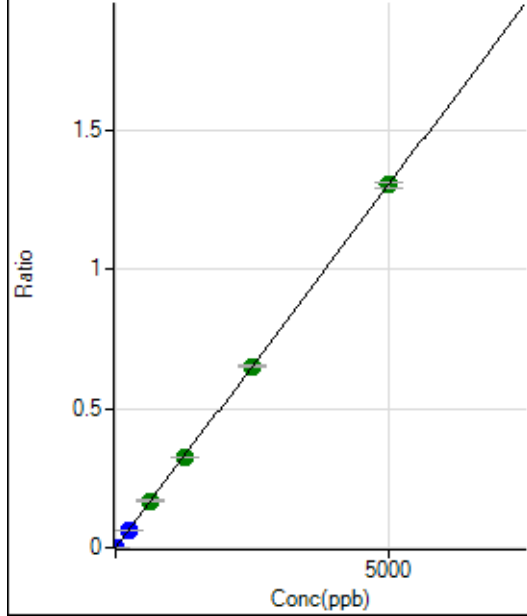
$$R = 1.0000$$

$$DL = 0.005116$$

$$BEC = 0.009656$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	146.67	0.0000	P	17.5
2	☐	10.000	9.387	31371.22	0.0025	P	1.3
3	☐	250.000	246.681	826347.59	0.0642	P	1.0
4	☐	625.000	646.069	2118556.53	0.1681	A	1.2
5	☐	1250.000	1250.402	4129367.93	0.3254	A	1.0
6	☐	2500.000	2493.830	8201121.06	0.6489	A	1.2
7	☐	5000.000	5000.518	16130006.43	1.3012	A	1.7
8	☐			7101.83	0.0006	P	3.4

$$y = 2.6021\text{E-}004 * x + 1.1854\text{E-}005$$

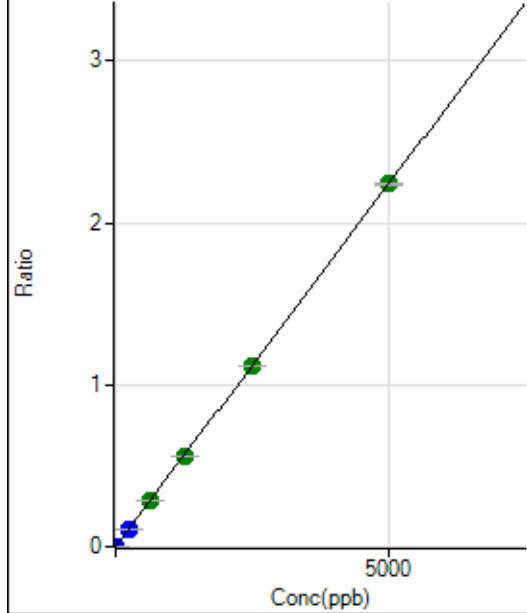
$$R = 1.0000$$

$$DL = 0.02396$$

$$BEC = 0.04555$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	255.56	0.0000	P	14.0
2	☐	10.000	9.292	53437.63	0.0042	P	0.5
3	☐	250.000	247.314	1425529.44	0.1107	P	0.6
4	☐	625.000	641.096	3617017.80	0.2871	A	1.4
5	☐	1250.000	1245.035	7074235.59	0.5575	A	1.8
6	☐	2500.000	2491.891	14100474.10	1.1157	A	0.6
7	☐	5000.000	5003.419	27772259.87	2.2402	A	0.7
8	☐			12141.94	0.0010	P	1.6

$$y = 4.4773\text{E-}004 * x + 2.0667\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01935$$

$$BEC = 0.04616$$

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	☐			15.55		P	24.8
3	☐			102.22		P	7.5
4	☐			202.22		P	9.7
5	☐			473.35		P	7.7
6	☐			832.26		P	13.5
7	☐			1819.03		P	4.4
8	☐			260.00		P	4.6

150 Nd [He] No available calibration points

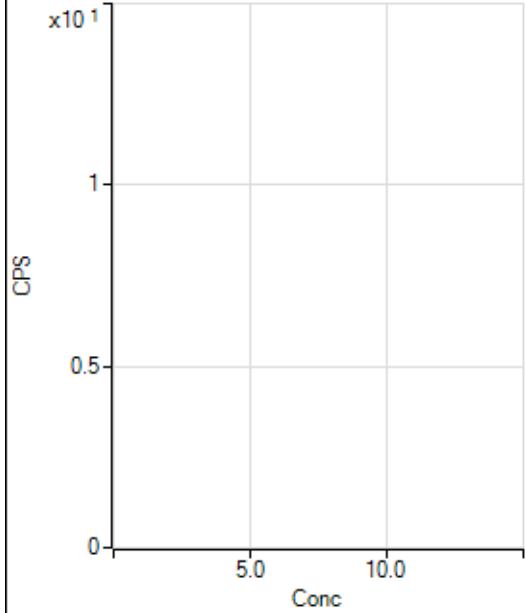
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			3.33		P	100.
3	☐			14.44		P	13.4
4	☐			38.89		P	13.1
5	☐			87.78		P	12.2
6	☐			147.78		P	9.4
7	☐			285.56		P	10.8
8	☐			136.67		P	12.9

156 Dy [No Gas] No available calibration points

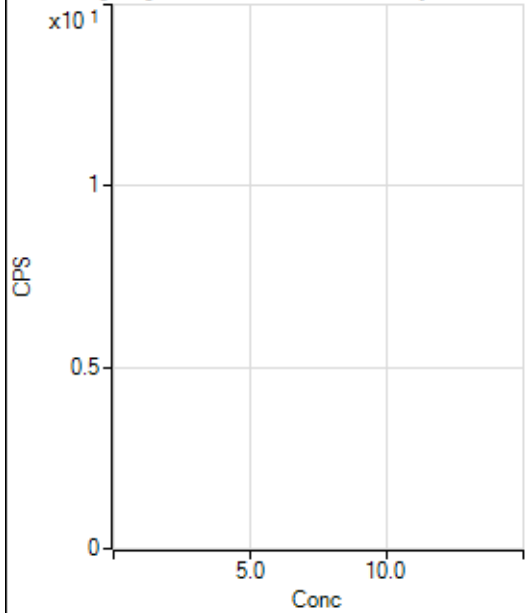
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	83.3
2	☐			11.11		P	105.
3	☐			33.33		P	55.7
4	☐			63.33		P	5.3
5	☐			96.67		P	42.4
6	☐			157.78		P	19.5
7	☐			384.46		P	6.1
8	☐			464.46		P	4.2

156 Dy [He] No available calibration points

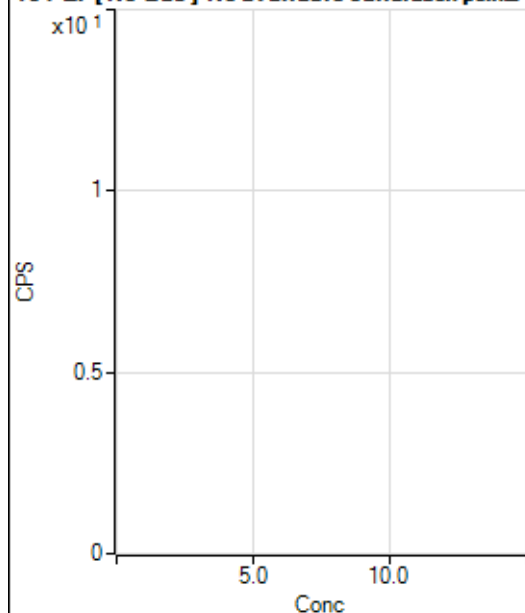
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			13.33		P	66.1
3	☐			43.33		P	27.7
4	☐			82.22		P	36.8
5	☐			215.56		P	17.0
6	☐			367.79		P	6.0
7	☐			656.69		P	4.9
8	☐			314.45		P	4.4

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

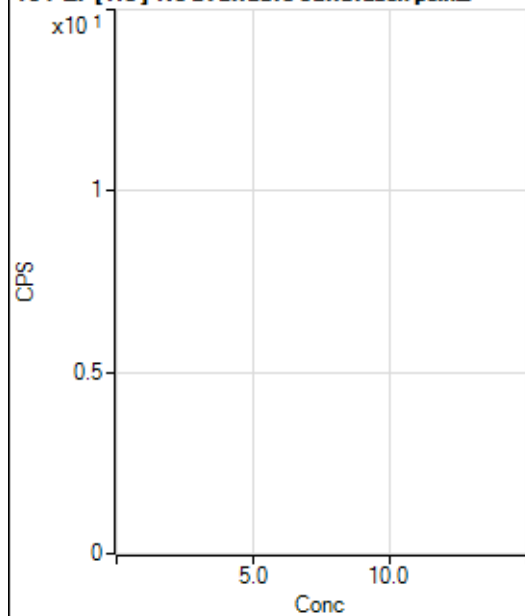
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.22		P	18.4
2	☐			77.78		P	26.2
3	☐			94.45		P	4.1
4	☐			96.66		P	15.8
5	☐			98.89		P	19.8
6	☐			134.45		P	17.4
7	☐			200.00		P	24.2
8	☐			434.46		P	4.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			405.57		P	15.3
2	☐			395.56		P	8.2
3	☐			366.67		P	13.8
4	☐			411.12		P	8.0
5	☐			453.35		P	9.6
6	☐			415.57		P	4.6
7	☐			435.57		P	9.7
8	☐			636.69		P	2.6

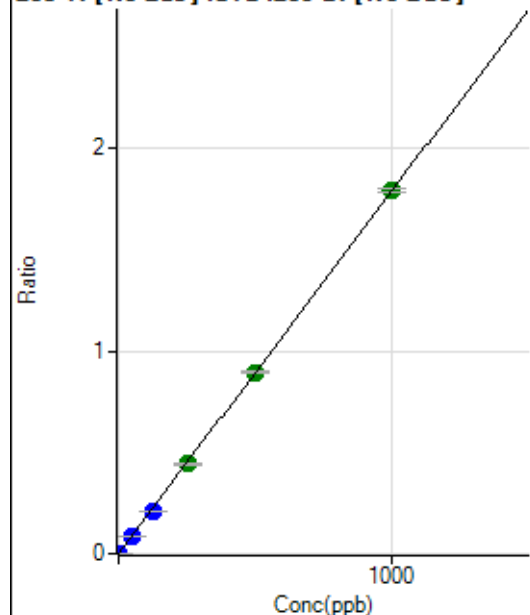
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			101.11		P	5.0
2	☐			96.67		P	9.1
3	☐			81.11		P	13.2
4	☐			103.34		P	14.8
5	☐			115.56		P	10.1
6	☐			156.67		P	3.7
7	☐			210.01		P	11.0
8	☐			482.23		P	9.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	21.3
2	☐			64.44		P	18.2
3	☐			62.22		P	22.3
4	☐			58.89		P	8.6
5	☐			82.22		P	20.4
6	☐			90.00		P	17.0
7	☐			145.56		P	8.7
8	☐			296.67		P	16.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	235.56	0.0000	P	22.0
2	☐	1.000	0.852	11752.95	0.0016	P	1.2
3	☐	50.000	46.159	621935.48	0.0825	P	0.7
4	☐	125.000	117.127	1541708.52	0.2092	P	2.7
5	☐	250.000	247.184	3286355.19	0.4415	A	1.5
6	☐	500.000	500.417	6531224.21	0.8939	A	1.0
7	☐	1000.000	1001.672	12699558.70	1.7892	A	1.0
8	☐			3877.26	0.0006	P	5.7

$$y = 0.0018 * x + 3.1819E-005$$

$$R = 1.0000$$

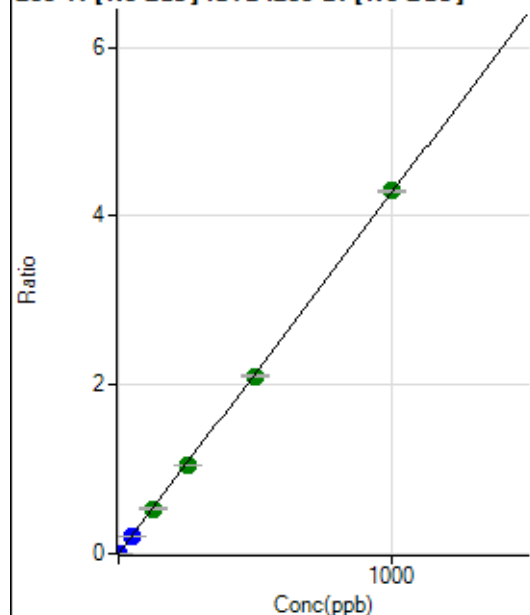
$$DL = 0.01174$$

$$BEC = 0.01781$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	612.24	0.0001	P	6.0
2	☐	1.000	0.835	27645.95	0.0037	P	0.8
3	☐	50.000	45.394	1464460.33	0.1942	P	0.3
4	☐	125.000	124.198	3914540.67	0.5312	A	2.2
5	☐	250.000	244.614	7786661.34	1.0462	A	1.7
6	☐	500.000	492.502	15390497.27	2.1063	A	0.4
7	☐	1000.000	1005.426	30522822.04	4.2999	A	0.3
8	☐			9170.96	0.0015	P	7.6

$$y = 0.0043 * x + 8.2526E-005$$

$$R = 0.9999$$

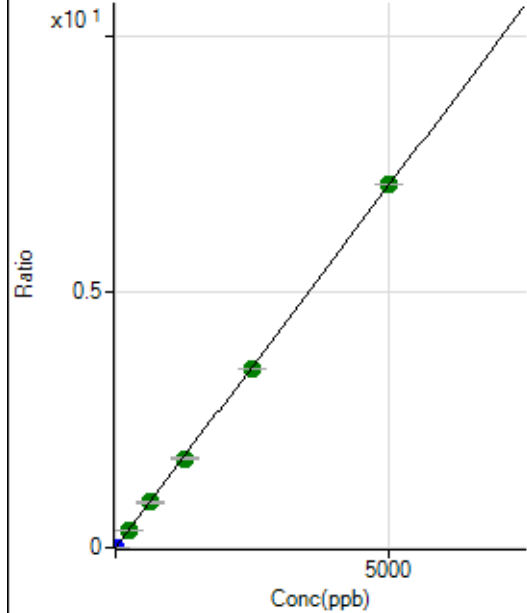
$$DL = 0.003456$$

$$BEC = 0.0193$$

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	1180.06	0.0002	P	7.5
2	☐	1.000	0.849	10297.33	0.0014	P	1.3
3	☐	250.000	248.666	2654583.99	0.3520	A	1.1
4	☐	625.000	625.881	6528418.24	0.8858	A	1.6
5	☐	1250.000	1233.983	12997539.39	1.7463	A	1.7
6	☐	2500.000	2480.635	25649936.84	3.5104	A	0.2
7	☐	5000.000	5013.643	50362937.58	7.0948	A	0.1
8	☐			28652.47	0.0046	P	2.5

$$y = 0.0014 * x + 1.5918E-004$$

$$R = 1.0000$$

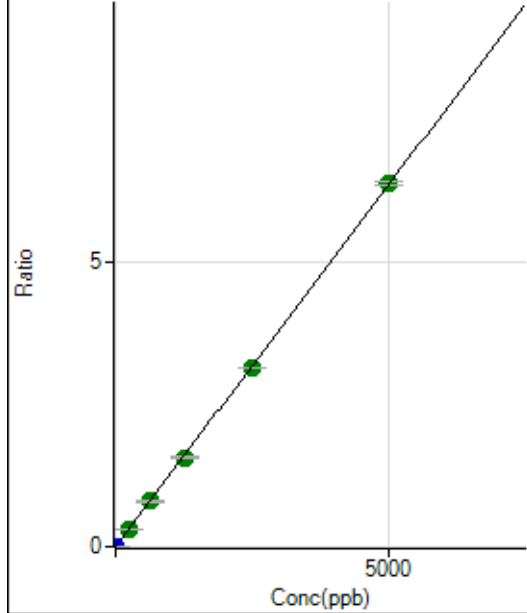
$$DL = 0.02547$$

$$BEC = 0.1125$$

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	1080.05	0.0001	P	9.1
2	☐	1.000	0.832	9119.81	0.0012	P	1.1
3	☐	250.000	249.057	2394174.29	0.3175	A	0.6
4	☐	625.000	625.741	5877521.44	0.7975	A	1.6
5	☐	1250.000	1229.844	11664934.55	1.5673	A	1.7
6	☐	2500.000	2476.750	23061354.93	3.1562	A	0.2
7	☐	5000.000	5016.618	45375138.77	6.3926	A	0.9
8	☐			25165.57	0.0041	P	1.9

$$y = 0.0013 * x + 1.4573E-004$$

$$R = 1.0000$$

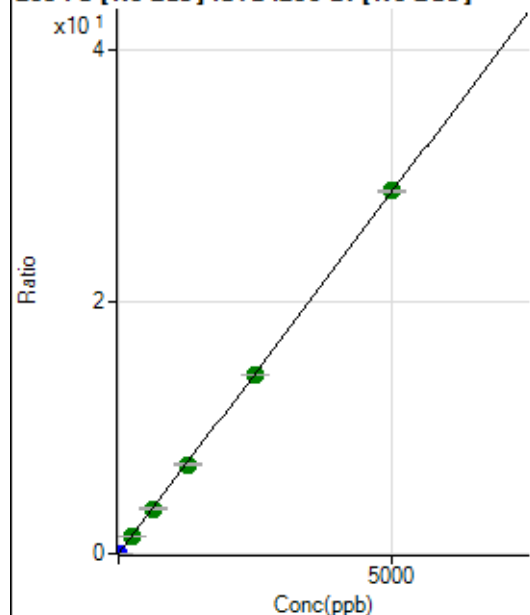
$$DL = 0.03115$$

$$BEC = 0.1144$$

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	4777.04	0.0006	P	3.1
2	☐	1.000	0.843	41491.81	0.0055	P	1.1
3	☐	250.000	246.432	10679109.65	1.4162	A	0.3
4	☐	625.000	623.799	26412508.36	3.5840	A	1.7
5	☐	1250.000	1229.028	52551182.42	7.0606	A	1.5
6	☐	2500.000	2468.323	103606785.9	14.1795	A	0.4
7	☐	5000.000	5021.410	204749500.2	28.8453	A	0.6
8	☐			114822.07	0.0186	P	2.7

$$y = 0.0057 * x + 6.4391E-004$$

$$R = 1.0000$$

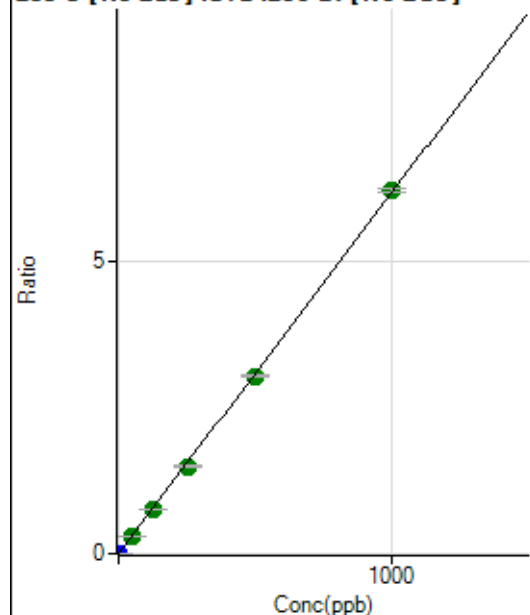
$$DL = 0.01049$$

$$BEC = 0.1121$$

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	274.45	0.0000	P	11.8
2	☐	1.000	0.786	36886.42	0.0049	P	1.0
3	☐	50.000	47.362	2197975.12	0.2915	A	0.4
4	☐	125.000	121.687	5519255.34	0.7489	A	1.8
5	☐	250.000	241.269	11050154.14	1.4847	A	2.5
6	☐	500.000	493.030	22169009.67	3.0340	A	1.3
7	☐	1000.000	1006.214	43949911.01	6.1920	A	1.2
8	☐			7387.68	0.0012	P	8.3

$$y = 0.0062 * x + 3.6905E-005$$

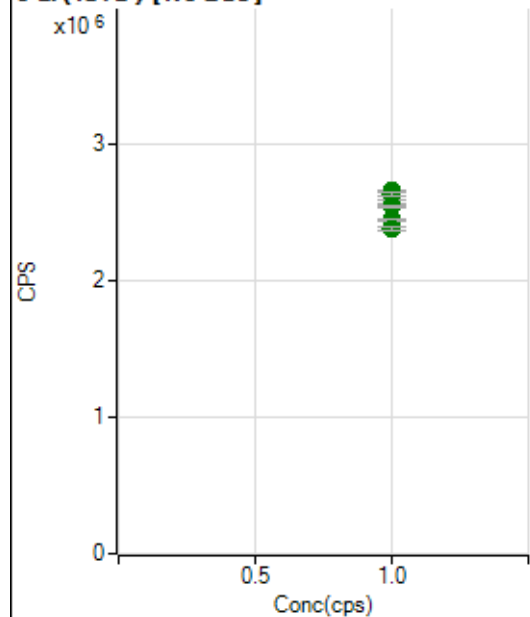
$$R = 0.9999$$

$$DL = 0.002127$$

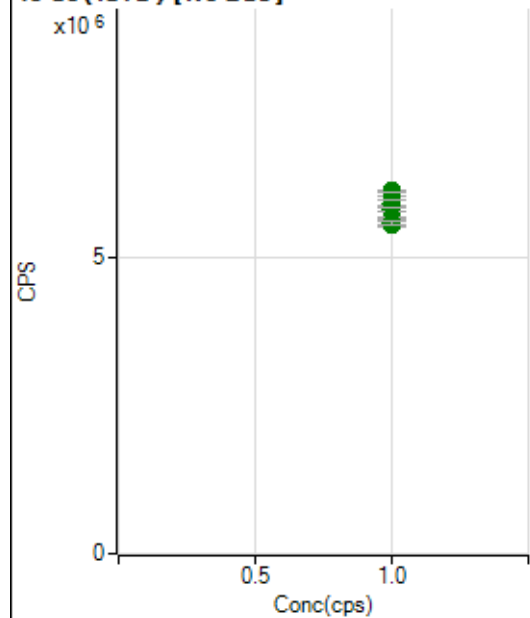
$$BEC = 0.005997$$

Weight: <None>

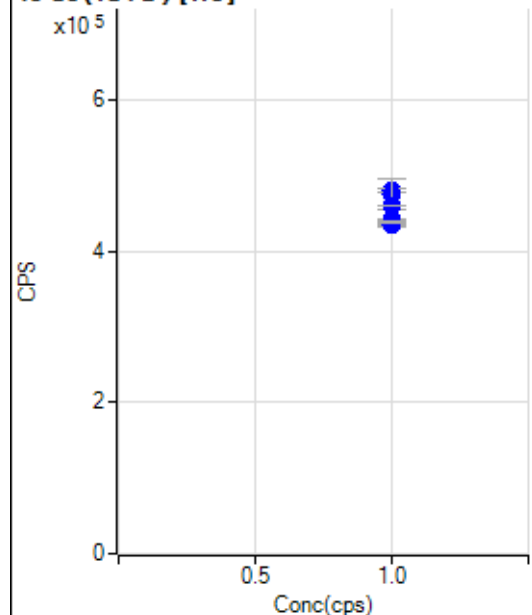
Min Conc: 0

6 Li (ISTD) [No Gas]

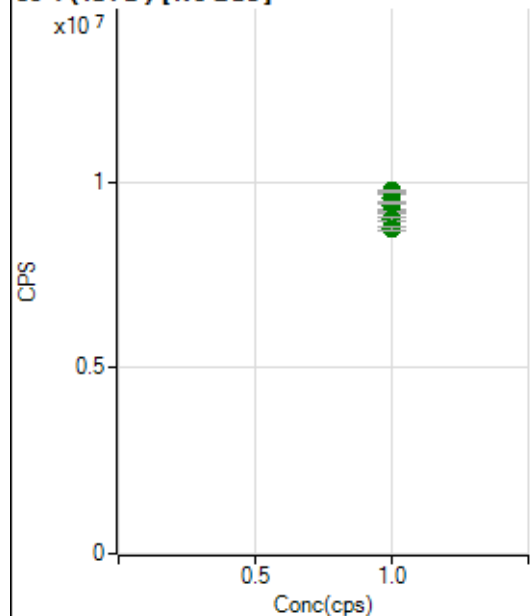
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2590995.19		A	2.0
2	☐	1.000		2658432.63		A	0.6
3	☐	1.000		2653968.43		A	0.5
4	☐	1.000		2624401.40		A	2.2
5	☐	1.000		2631111.92		A	1.1
6	☐	1.000		2544567.81		A	0.5
7	☐	1.000		2445124.02		A	0.9
8	☐	1.000		2382175.71		A	1.4

45 Sc (ISTD) [No Gas]

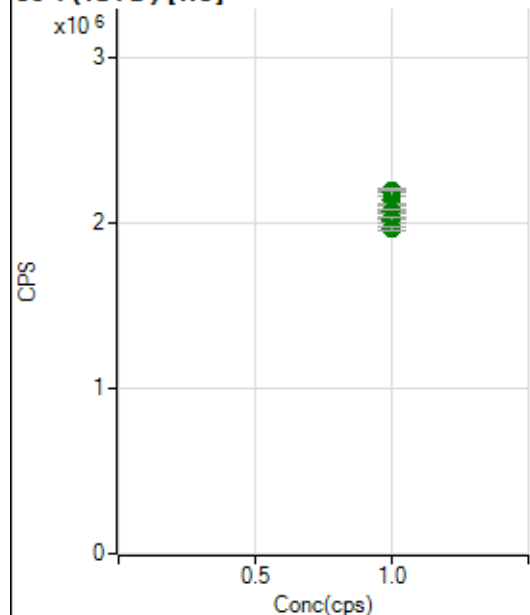
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5948312.34		A	2.8
2	☐	1.000		6108398.80		A	0.7
3	☐	1.000		6084579.70		A	0.3
4	☐	1.000		5878312.34		A	2.1
5	☐	1.000		5795246.58		A	1.2
6	☐	1.000		5654910.61		A	0.6
7	☐	1.000		5523034.08		A	1.1
8	☐	1.000		5558919.29		A	1.3

45 Sc (ISTD) [He]

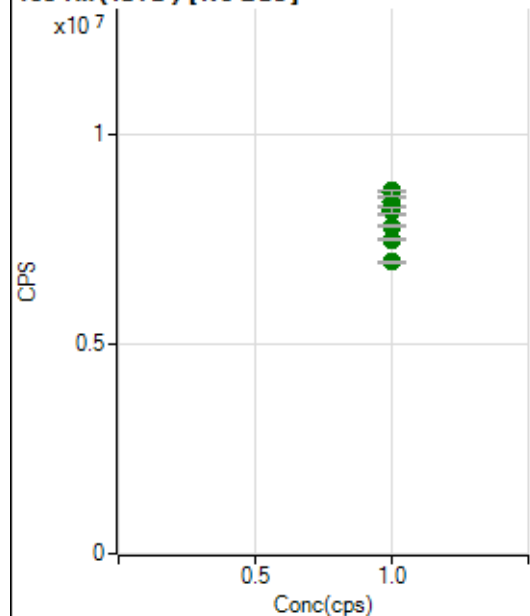
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		478147.89		P	0.4
2	☐	1.000		479956.41		P	0.9
3	☐	1.000		476162.89		P	8.3
4	☐	1.000		460639.40		P	0.3
5	☐	1.000		442064.93		P	0.4
6	☐	1.000		435409.18		P	0.4
7	☐	1.000		434658.49		P	0.9
8	☐	1.000		438340.39		P	0.2

89 Y (ISTD) [No Gas]

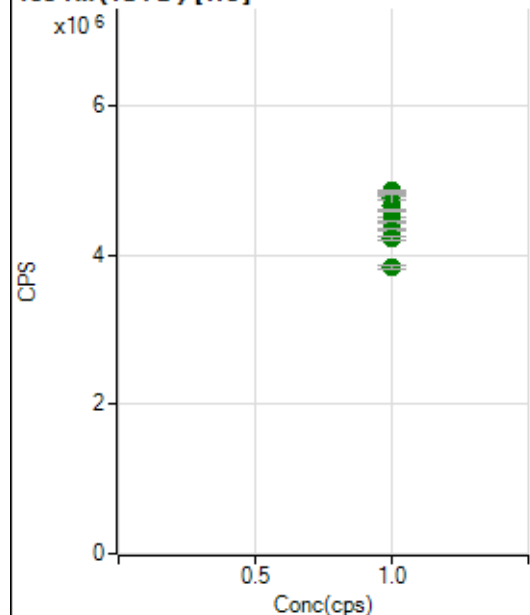
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9549928.82		A	2.1
2	☐	1.000		9749601.17		A	0.8
3	☐	1.000		9758159.72		A	0.9
4	☐	1.000		9358358.61		A	1.7
5	☐	1.000		9438156.87		A	1.0
6	☐	1.000		9179286.53		A	0.9
7	☐	1.000		9007398.20		A	1.2
8	☐	1.000		8739453.13		A	1.2

89 Y (ISTD) [He]

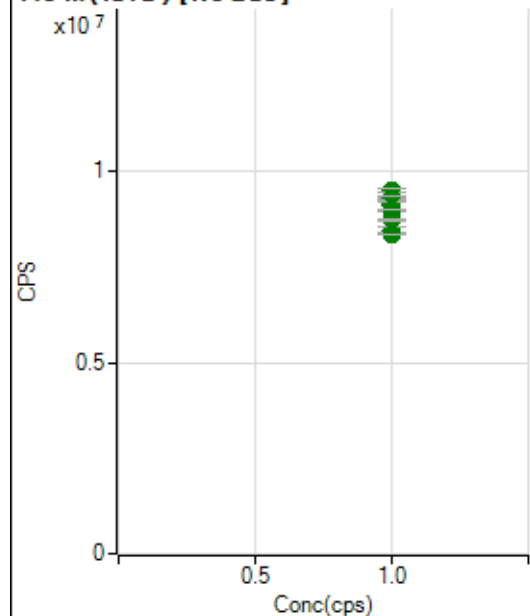
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2190287.80		A	1.0
2	☐	1.000		2180198.15		A	1.6
3	☐	1.000		2134897.07		A	6.5
4	☐	1.000		2110252.85		A	0.5
5	☐	1.000		2064162.99		A	0.9
6	☐	1.000		2003318.83		A	1.2
7	☐	1.000		2014238.08		A	1.2
8	☐	1.000		1963468.34		A	1.2

103 Rh (ISTD) [No Gas]

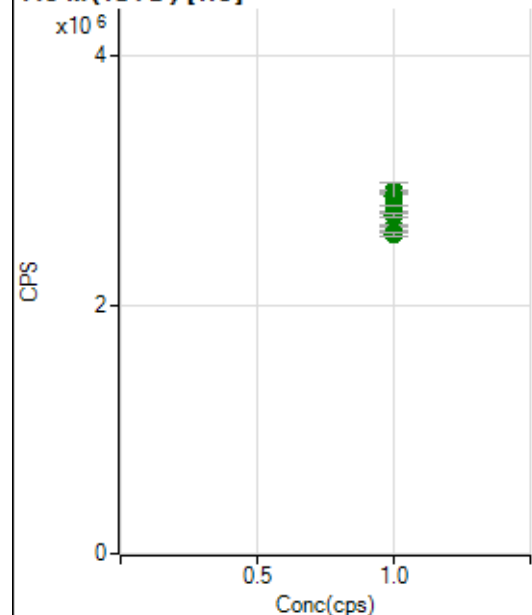
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8387270.15		A	2.2
2	☐	1.000		8652322.44		A	0.7
3	☐	1.000		8603477.23		A	1.2
4	☐	1.000		8184912.03		A	2.5
5	☐	1.000		8194298.56		A	1.4
6	☐	1.000		7801255.51		A	0.6
7	☐	1.000		7485270.10		A	0.4
8	☐	1.000		6948252.61		A	1.1

103 Rh (ISTD) [He]

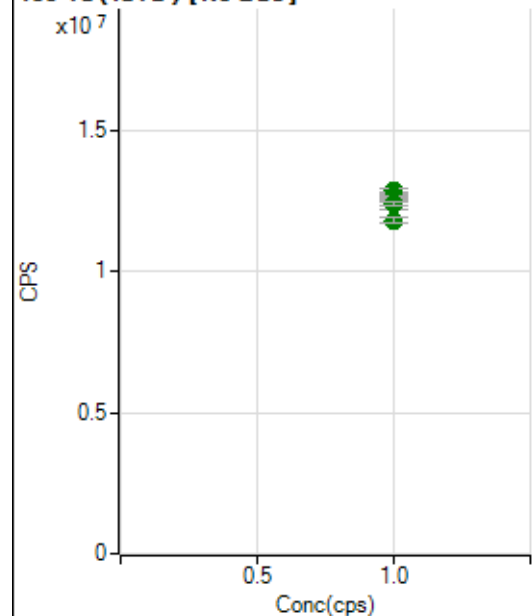
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4776210.97		A	1.5
2	☐	1.000		4868468.40		A	0.4
3	☐	1.000		4666408.51		A	6.7
4	☐	1.000		4602989.10		A	0.3
5	☐	1.000		4459664.06		A	0.6
6	☐	1.000		4345592.33		A	0.4
7	☐	1.000		4232421.22		A	1.5
8	☐	1.000		3847489.80		A	0.8

115 In (ISTD) [No Gas]

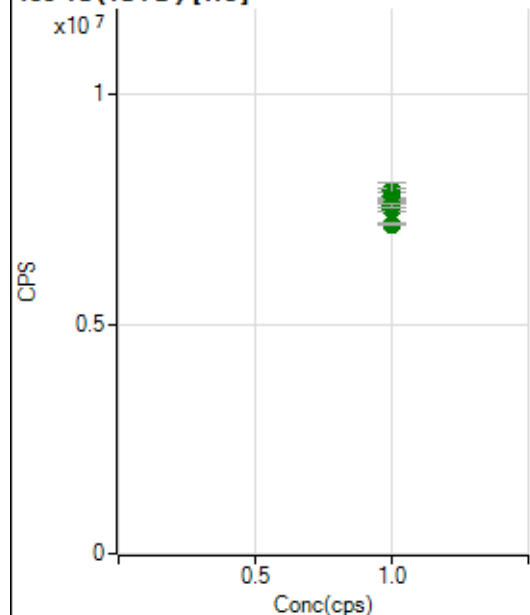
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9173662.45		A	3.3
2	☐	1.000		9503169.52		A	1.0
3	☐	1.000		9309166.74		A	1.1
4	☐	1.000		9100275.25		A	2.4
5	☐	1.000		9018188.40		A	0.4
6	☐	1.000		8739806.43		A	0.6
7	☐	1.000		8480028.75		A	1.7
8	☐	1.000		8361305.47		A	0.6

115 In (ISTD) [He]

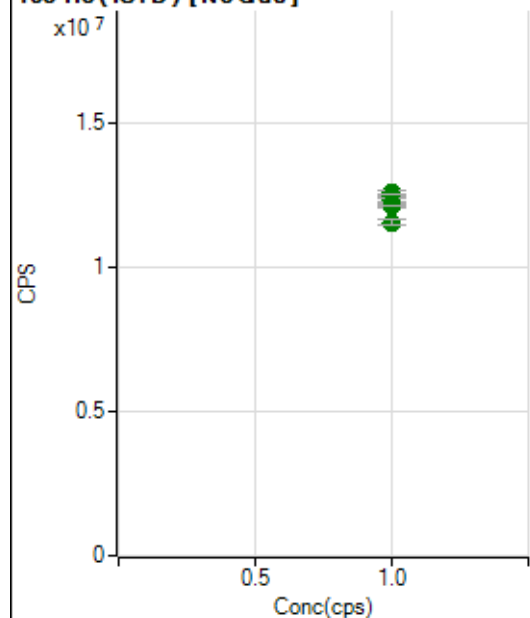
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2899725.28		A	0.5
2	☐	1.000		2914410.77		A	0.3
3	☐	1.000		2867567.82		A	8.1
4	☐	1.000		2795896.01		A	0.0
5	☐	1.000		2716860.74		A	0.8
6	☐	1.000		2629932.73		A	0.3
7	☐	1.000		2572073.29		A	2.2
8	☐	1.000		2561718.94		A	0.9

159 Tb (ISTD) [No Gas]

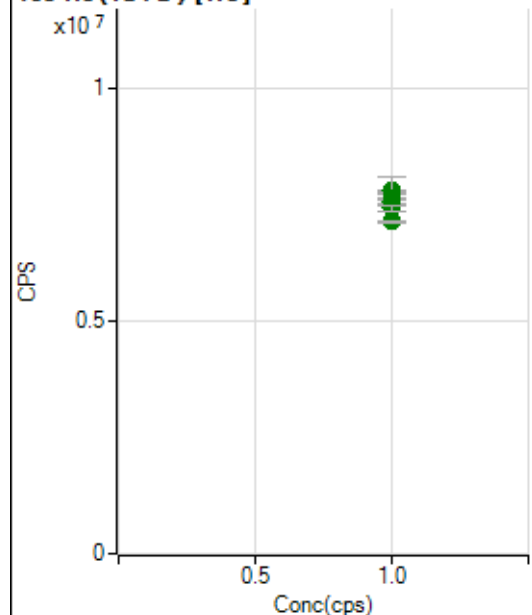
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12395761.62		A	2.6
2	☐	1.000		12781729.11		A	0.7
3	☐	1.000		12872096.47		A	1.0
4	☐	1.000		12602490.09		A	2.1
5	☐	1.000		12691862.45		A	1.1
6	☐	1.000		12638203.70		A	0.7
7	☐	1.000		12398089.95		A	1.3
8	☐	1.000		11815301.91		A	1.6

159 Tb (ISTD) [He]

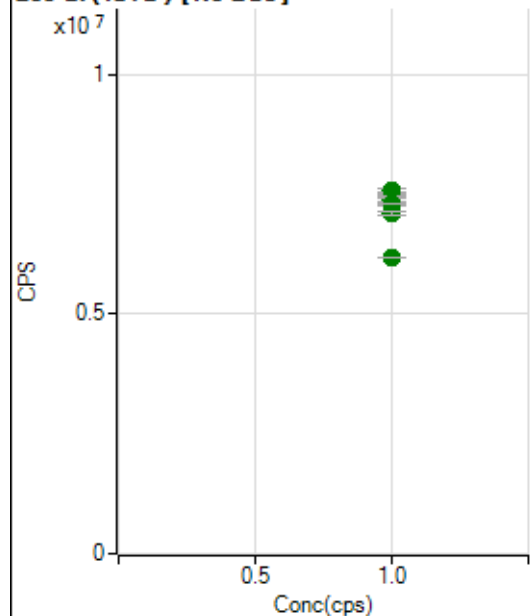
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7745249.47		A	0.2
2	☐	1.000		7907795.64		A	1.1
3	☐	1.000		7812033.01		A	7.1
4	☐	1.000		7728062.31		A	0.9
5	☐	1.000		7697862.73		A	0.6
6	☐	1.000		7502750.72		A	0.9
7	☐	1.000		7588455.24		A	1.6
8	☐	1.000		7178165.38		A	0.7

165 Ho (ISTD) [No Gas]

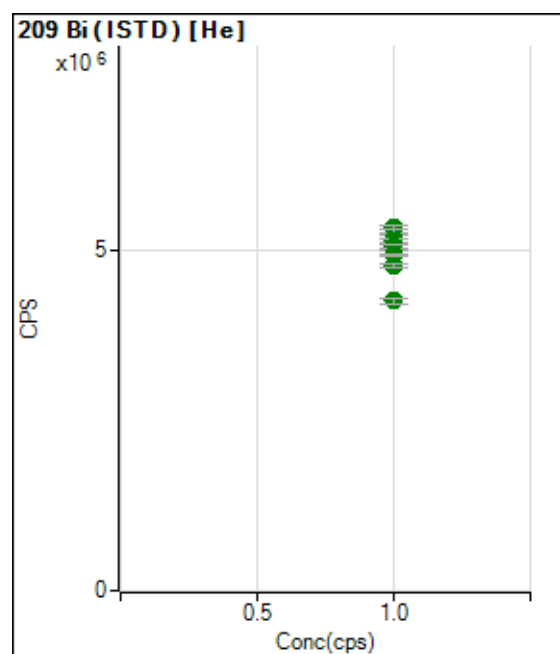
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12127454.68		A	1.8
2	☐	1.000		12471255.79		A	0.8
3	☐	1.000		12557592.31		A	1.1
4	☐	1.000		12280390.93		A	1.7
5	☐	1.000		12447141.07		A	0.6
6	☐	1.000		12211891.07		A	0.3
7	☐	1.000		12107698.99		A	0.3
8	☐	1.000		11531164.27		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7778097.80		A	0.5
2	☐	1.000		7809183.15		A	0.5
3	☐	1.000		7805917.11		A	7.9
4	☐	1.000		7667799.33		A	0.3
5	☐	1.000		7582689.33		A	0.9
6	☐	1.000		7520124.61		A	0.3
7	☐	1.000		7449229.40		A	1.7
8	☐	1.000		7141330.10		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7422336.07		A	2.4
2	☐	1.000		7565134.12		A	0.9
3	☐	1.000		7540471.83		A	0.3
4	☐	1.000		7372352.60		A	3.2
5	☐	1.000		7443501.76		A	0.8
6	☐	1.000		7306801.76		A	0.1
7	☐	1.000		7098501.29		A	1.2
8	☐	1.000		6169620.19		A	0.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5253087.42		A	0.8
2	☐	1.000		5337917.14		A	1.0
3	☐	1.000		5175077.18		A	6.1
4	☐	1.000		5154174.99		A	1.3
5	☐	1.000		5061103.74		A	1.1
6	☐	1.000		4946672.39		A	0.5
7	☐	1.000		4791470.35		A	1.3
8	☐	1.000		4258828.86		A	1.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7042424-MS3.b

Acq. Date-Time 2024-04-24 11:52:00

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		15384	153837.96			0.327	5.000
24		99899	998988.26			0.905	5.000
25		13665	136646.02			0.594	5.000
26		16111	161114.89			0.308	5.000
59		120528	1205280.15			0.803	5.000
113		16039	160385.68			0.398	5.000
115		196019	1960191.15			0.401	5.000
206		43868	438683.24			0.368	5.000
207		40416	404159.52			0.563	5.000
208		103711	1037107.18			0.782	5.000
220		0	3.90			49.155	

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

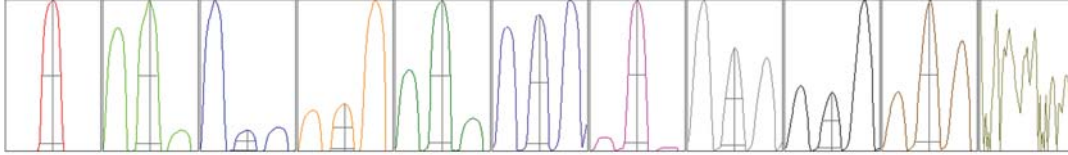
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15352	15431	15433	15317	15385
24	98999	99120	101164	99814	100397
25	13545	13630	13728	13746	13674
26	16041	16080	16149	16128	16159
59	119891	120523	121301	119293	121633
113	16105	16023	16090	15944	16030
115	195091	197037	195374	196292	196302
206	43752	43922	44091	43675	43901
207	40458	40445	40559	40025	40593
208	104978	102920	103171	103516	103968

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	27335.69	9.00	8.90 - 9.10	
24	172613.59	24.00	23.90 - 24.10	
25	23152.36	25.00	24.90 - 25.10	
26	26828.27	26.00	25.90 - 26.10	
59	205731.19	59.00	58.90 - 59.10	
113	29789.42	113.00	112.90 - 113.10	
115	363161.20	115.00	114.90 - 115.10	
206	85498.77	206.00	205.90 - 206.10	
207	77166.16	207.00	206.90 - 207.10	
208	196588.46	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.754	0.900	
24	0.62	0.780	0.900	
25	0.62	0.739	0.900	
26	0.63	0.744	0.900	
59	0.61	0.737	0.900	
113	0.55	0.727	0.900	
115	0.55	0.751	0.900	
206	0.53	0.776	0.900	
207	0.54	0.741	0.900	
208	0.54	0.807	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.3 V	Deflect	14.4 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2302 V	Pulse HV	1348 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		37394	373938.13			0.672	
89		35466	354659.43			0.746	
205		43250	432497.54			0.531	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	37567	37716	37318	37296	37072
89	35551	35796	35499	35419	35066
205	43256	43643	43135	43142	43072

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	8.1 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-135.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2302 V	Pulse HV	1348 V
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