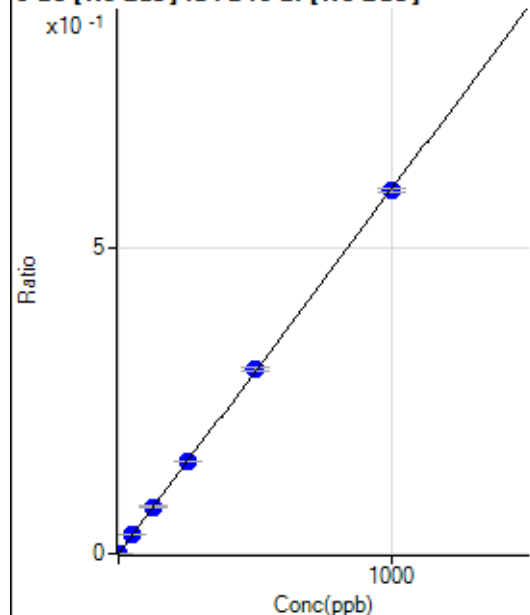


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7081421MS.b\
Analysis File: P7081421MS.batch.bin
DA Date-Time: 2021-08-15 08:36:36
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-08-14 07:16:57
2	003CALS.d	S02	2021-08-14 07:20:01
3	004CALS.d	S03	2021-08-14 07:23:06
4	005CALS.d	S04	2021-08-14 07:26:09
5	006CALS.d	S05	2021-08-14 07:29:10
6	007CALS.d	S06	2021-08-14 07:32:09
7	008CALS.d	S07	2021-08-14 07:35:01
8	009CALS.d	S08	2021-08-14 07:37:53

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.52	0.0000	P	32.9
2	☐	1.000	1.062	1813.10	0.0007	P	7.7
3	☐	50.000	51.840	85325.24	0.0310	P	1.6
4	☐	125.000	129.140	206131.41	0.0771	P	0.9
5	☐	250.000	252.518	401325.50	0.1507	P	0.7
6	☐	500.000	506.400	760743.07	0.3022	P	1.4
7	☐	1000.000	995.561	1412023.71	0.5941	P	0.9
8	☐			337.05	0.0001	P	18.5

$$y = 5.9672\text{E-}004 * x + 2.5199\text{E-}005$$

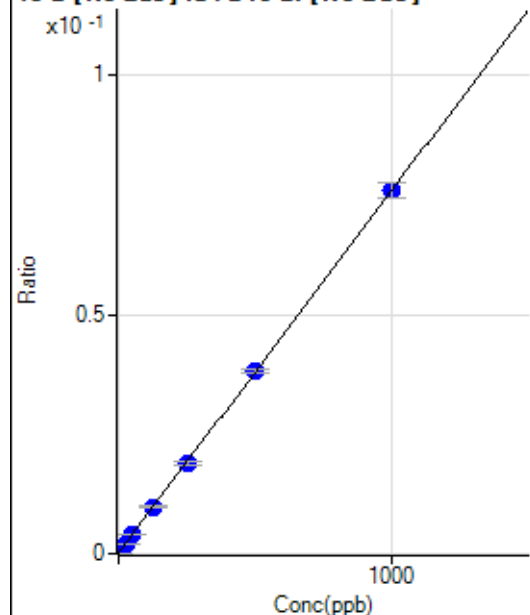
$$R = 1.0000$$

$$DL = 0.04165$$

$$BEC = 0.04223$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	508.35	0.0002	P	4.8
2	☐	25.000	23.815	5476.14	0.0020	P	4.6
3	☐	50.000	49.563	10859.71	0.0039	P	4.5
4	☐	125.000	126.012	26025.62	0.0097	P	4.1
5	☐	250.000	246.776	50264.40	0.0189	P	5.0
6	☐	500.000	501.828	96159.88	0.0382	P	1.9
7	☐	1000.000	999.817	180395.13	0.0759	P	4.2
8	☐			7510.37	0.0033	P	9.3

$$y = 7.5737\text{E-}005 * x + 1.8689\text{E-}004$$

$$R = 1.0000$$

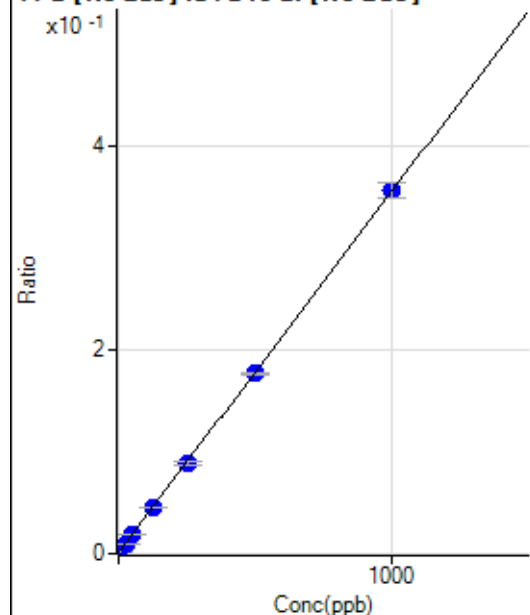
$$DL = 0.3551$$

$$BEC = 2.468$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2611.41	0.0010	P	2.2
2	☐	25.000	25.446	27439.23	0.0100	P	4.0
3	☐	50.000	50.510	51947.86	0.0188	P	4.0
4	☐	125.000	125.512	121456.63	0.0454	P	2.2
5	☐	250.000	248.618	237035.14	0.0890	P	3.7
6	☐	500.000	495.751	444485.54	0.1765	P	1.5
7	☐	1000.000	1002.369	846033.61	0.3560	P	4.2
8	☐			35049.54	0.0154	P	7.7

$$y = 3.5419\text{E-}004 * x + 9.6009\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.181$$

$$BEC = 2.711$$

Weight: <None>

Min Conc: 0

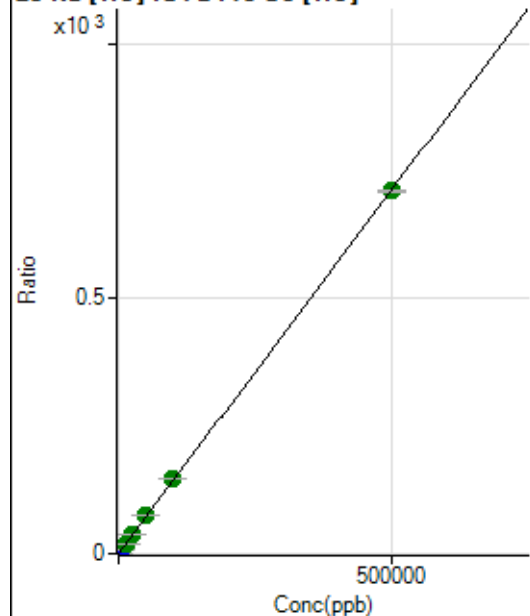
12 C [No Gas] No available calibration points



	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	11362.86	0.0361	P	3.8
2	☐	500.000	565.391	264176.28	0.8417	P	0.7
3	☐	5000.000	5483.143	2425231.32	7.8481	P	0.9
4	☐	12500.000	13156.375	5714862.24	18.7803	A	1.6
5	☐	25000.000	26290.734	10924672.81	37.4931	A	0.2
6	☐	50000.000	51888.316	20834940.57	73.9625	A	0.3
7	☐	100000.00	103433.75	40411051.25	147.4003	A	0.1
8	☐	500000.00	499038.57	200341278.0	711.0264	A	0.9

$$y = 0.0014 * x + 0.0361$$

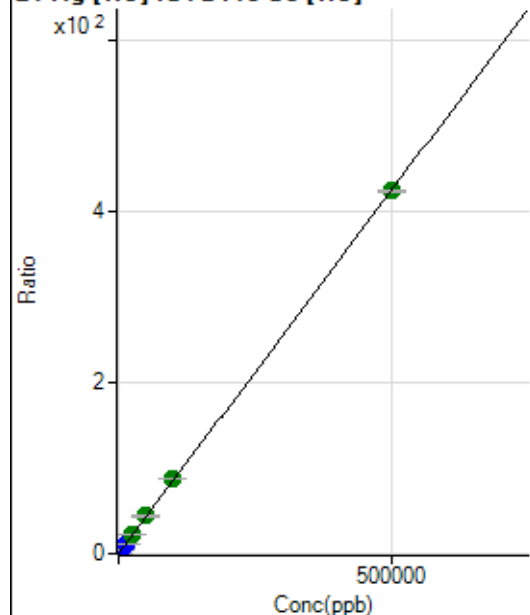
$$R = 1.0000$$

$$DL = 2.891$$

$$BEC = 25.36$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	394.46	0.0013	P	13.4
2	☐	500.000	555.086	148250.55	0.4723	P	0.3
3	☐	5000.000	5527.769	1449980.24	4.6922	P	1.0
4	☐	12500.000	13670.282	3530567.66	11.6021	P	1.3
5	☐	25000.000	26295.644	6502329.10	22.3161	A	0.7
6	☐	50000.000	51603.052	12336260.95	43.7924	A	0.5
7	☐	100000.00	102802.66	23917925.36	87.2412	A	0.4
8	☐	500000.00	499179.78	119359609.6	423.6130	A	0.8

$$y = 8.4862E-004 * x + 0.0013$$

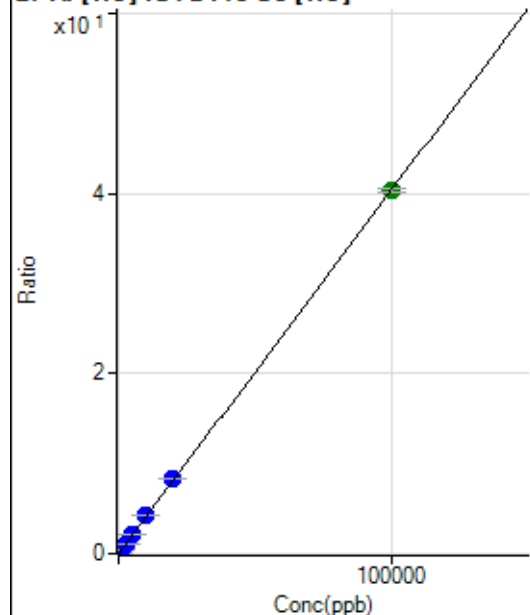
$$R = 1.0000$$

$$DL = 0.5918$$

$$BEC = 1.478$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	108.34	0.0003	P	27.3
2	☐	20.000	22.758	2992.05	0.0095	P	2.5
3	☐	1000.000	1078.524	134684.39	0.4358	P	0.1
4	☐	2500.000	2680.362	329432.16	1.0826	P	2.1
5	☐	5000.000	5314.183	625319.21	2.1461	P	0.2
6	☐	10000.000	10465.194	1190419.51	4.2259	P	0.5
7	☐	20000.000	20781.989	2300618.69	8.3916	P	0.7
8	☐	100000.00	99776.079	11351482.89	40.2874	A	1.0

$$y = 4.0377E-004 * x + 3.4420E-004$$

$$R = 1.0000$$

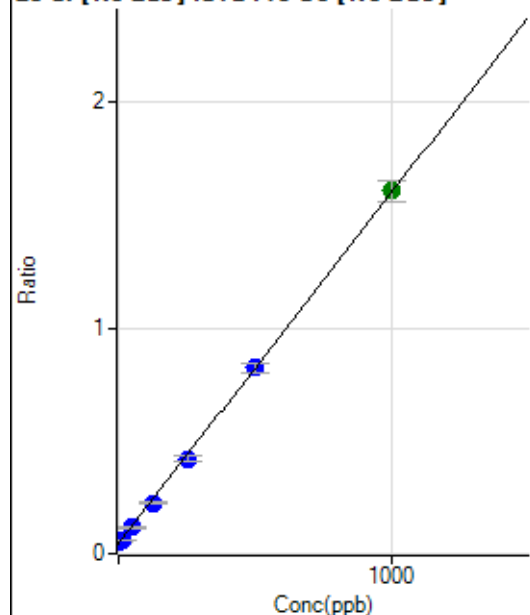
$$DL = 0.6973$$

$$BEC = 0.8524$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	222409.87	0.0482	P	0.9
2	☐	10.000	6.150	267952.02	0.0578	P	0.1
3	☐	50.000	43.691	538555.32	0.1160	P	5.1
4	☐	125.000	113.460	1008152.27	0.2244	P	5.1
5	☐	250.000	240.244	1878735.94	0.4212	P	7.1
6	☐	500.000	499.933	3474425.73	0.8244	P	5.2
7	☐	1000.000	1004.269	6427872.36	1.6074	A	5.8
8	☐			574718.08	0.1473	P	6.4

$$y = 0.0016 * x + 0.0482$$

$$R = 0.9999$$

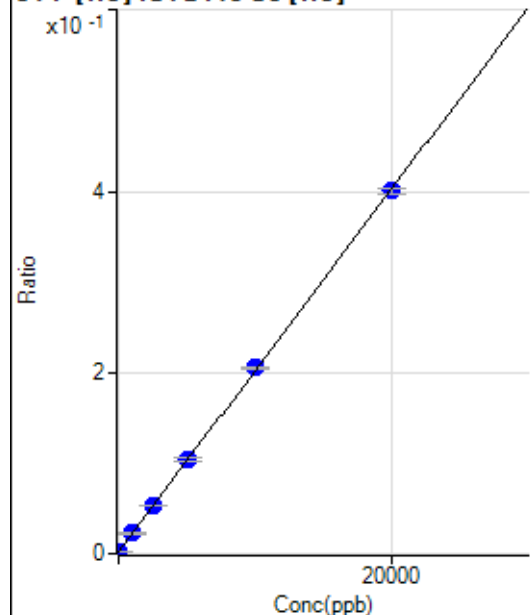
$$DL = 0.8553$$

$$BEC = 31.05$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	9.632	677.81	0.0022	P	11.9
2	☐	0.000	-9.632	555.58	0.0018	P	18.7
3	☐	1000.000	1018.640	6912.89	0.0224	P	1.0
4	☐	2500.000	2582.084	16339.81	0.0537	P	1.2
5	☐	5000.000	5100.089	30345.24	0.1041	P	2.5
6	☐	10000.000	10131.953	57731.48	0.2049	P	1.5
7	☐	20000.000	19897.809	109826.78	0.4006	P	1.3
8	☐			541.69	0.0019	P	7.6

$$y = 2.0034E-005 * x + 0.0020$$

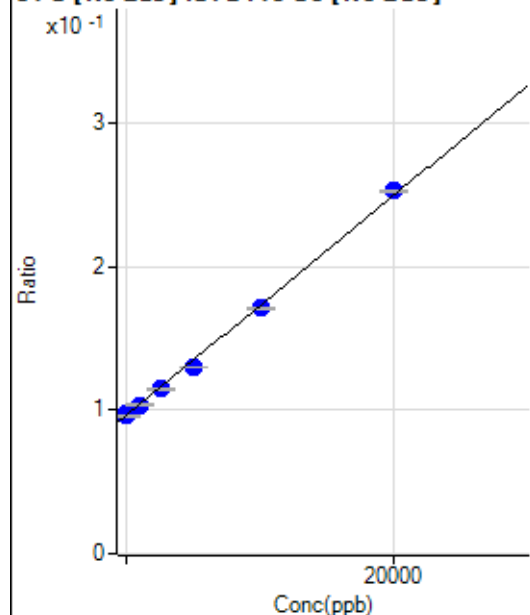
$$R = 0.9999$$

$$DL = 43.97$$

$$BEC = 97.92$$

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	118.708	452382.49	0.0980	P	0.8
2	☐	0.000	-118.708	446433.86	0.0962	P	0.8
3	☐	1000.000	814.943	479971.27	0.1034	P	1.3
4	☐	2500.000	2339.715	517099.71	0.1151	P	1.6
5	☐	5000.000	4357.112	582480.39	0.1305	P	0.3
6	☐	10000.000	9674.555	721987.27	0.1713	P	1.2
7	☐	20000.000	20352.733	1012501.81	0.2532	P	0.7
8	☐			358908.28	0.0920	P	0.9

$$y = 7.6673\text{E-}006 * x + 0.0971$$

$$R = 0.9992$$

$$DL = 317.6$$

$$BEC = 1.267\text{E}+04$$

Weight: <None>

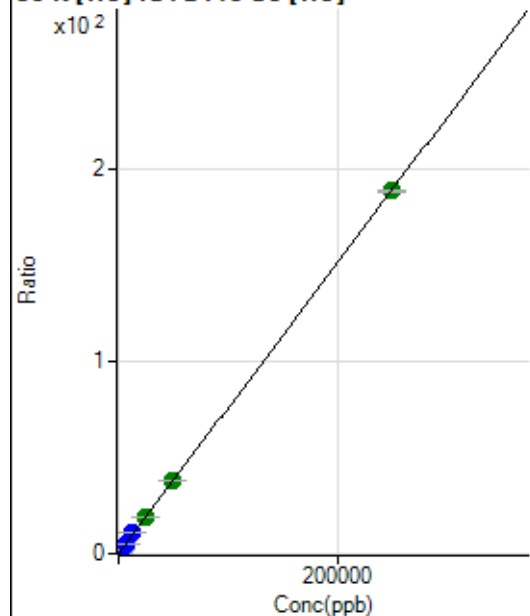
Min Conc: 0

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	38082.76	0.1211	P	0.6
2	☐	500.000	574.700	173843.36	0.5538	P	0.5
3	☐	2500.000	2843.095	699012.90	2.2620	P	0.1
4	☐	6250.000	7023.492	1646234.26	5.4098	P	1.3
5	☐	12500.000	14085.943	3125833.60	10.7279	P	0.5
6	☐	25000.000	25338.003	5408898.69	19.2007	A	0.5
7	☐	50000.000	50018.333	10359089.12	37.7851	A	0.4
8	☐	250000.00	249860.31	53048817.51	188.2671	A	0.5

$$y = 7.5300E-004 * x + 0.1211$$

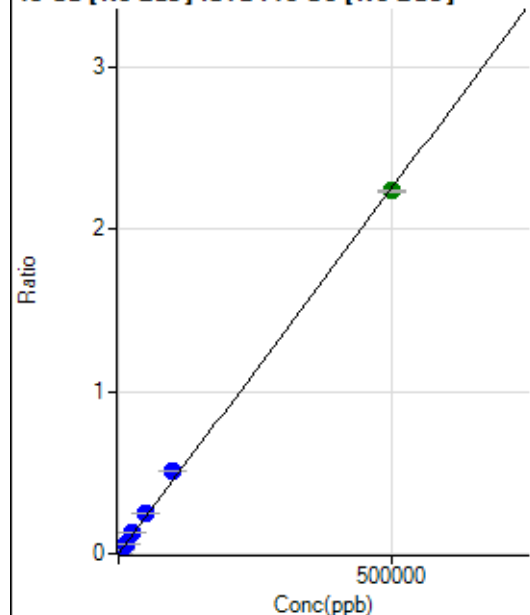
$$R = 1.0000$$

$$DL = 2.713$$

$$BEC = 160.8$$

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	111.12	0.0000	P	18.4
2	☐	500.000	571.175	12033.01	0.0026	P	3.8
3	☐	5000.000	5695.187	119069.65	0.0256	P	0.8
4	☐	12500.000	14042.064	283988.72	0.0632	P	0.2
5	☐	25000.000	28053.574	563276.07	0.1262	P	0.3
6	☐	50000.000	55977.764	1061470.13	0.2519	P	1.1
7	☐	100000.00	112800.71	2029520.69	0.5075	P	1.2
8	☐	500000.00	496643.82	8717035.96	2.2345	A	0.2

$$y = 4.4991\text{E-}006 * x + 2.4070\text{E-}005$$

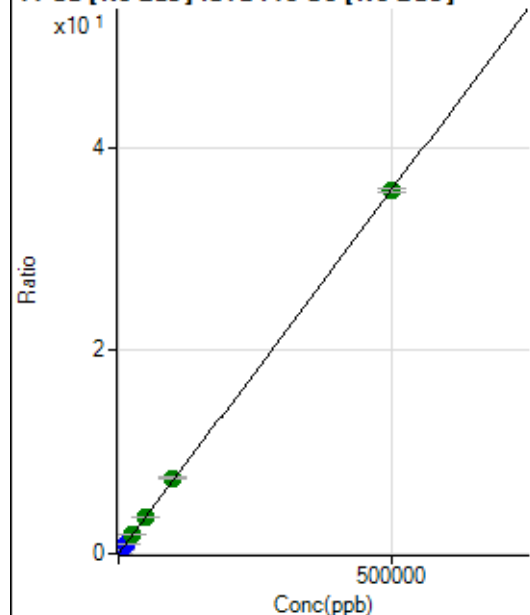
$$R = 0.9996$$

$$DL = 2.956$$

$$BEC = 5.35$$

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	5551.18	0.0012	P	4.7
2	☐	500.000	583.093	199181.44	0.0429	P	0.4
3	☐	5000.000	5647.709	1882071.61	0.4054	P	0.3
4	☐	12500.000	14006.311	4509384.78	1.0036	P	0.2
5	☐	25000.000	25505.936	8149702.00	1.8265	A	0.2
6	☐	50000.000	51258.694	15464420.31	3.6695	A	0.8
7	☐	100000.00	104191.30	29822459.70	7.4575	A	0.8
8	☐	500000.00	498966.35	139301179.5	35.7092	A	1.0

$$y = 7.1564\text{E-}005 * x + 0.0012$$

$$R = 1.0000$$

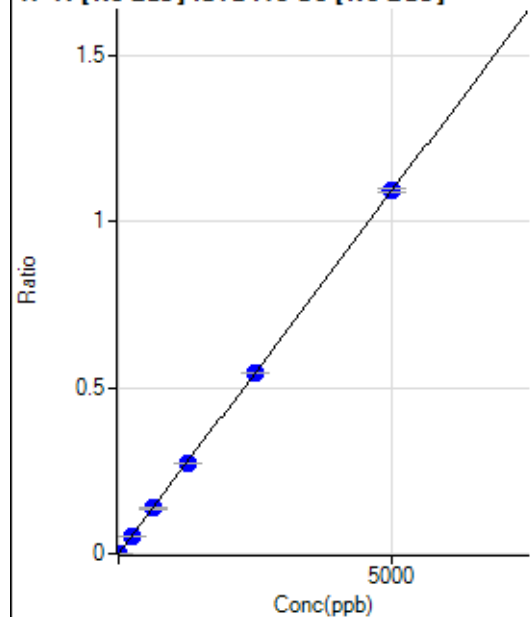
$$DL = 2.373$$

$$BEC = 16.82$$

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	77.78	0.0000	P	13.0
2	☐	5.000	5.282	5428.91	0.0012	P	2.9
3	☐	250.000	248.806	252260.36	0.0543	P	1.0
4	☐	625.000	623.784	611968.83	0.1362	P	0.6
5	☐	1250.000	1239.766	1207688.35	0.2707	P	0.5
6	☐	2500.000	2492.897	2293594.37	0.5442	P	0.8
7	☐	5000.000	5006.322	4370674.58	1.0929	P	0.9
8	☐			969.51	0.0002	P	7.3

$$y = 2.1831\text{E-}004 * x + 1.6869\text{E-}005$$

$$R = 1.0000$$

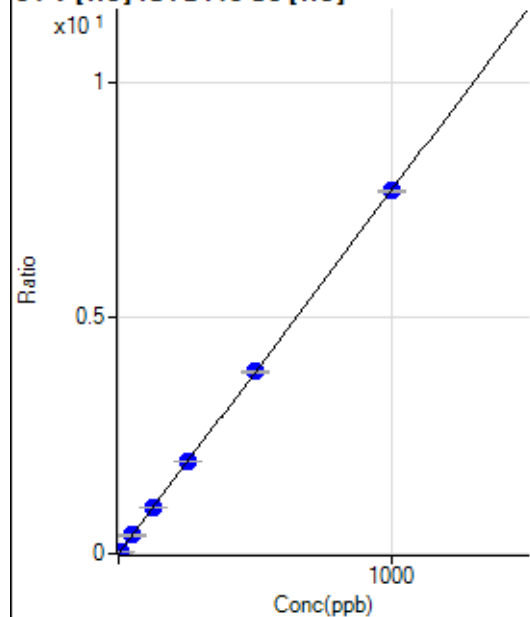
$$DL = 0.03012$$

$$BEC = 0.07727$$

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	14.44	0.0000	P	12.9
2	☐	5.000	5.367	12988.01	0.0414	P	2.3
3	☐	50.000	50.568	120353.41	0.3895	P	1.5
4	☐	125.000	126.495	296461.98	0.9742	P	0.8
5	☐	250.000	252.321	566204.69	1.9432	P	0.2
6	☐	500.000	501.068	1086991.05	3.8588	P	0.7
7	☐	1000.000	998.669	2108505.54	7.6909	P	0.8
8	☐			592.24	0.0021	P	4.6

$$y = 0.0077 * x + 4.5907\text{E-}005$$

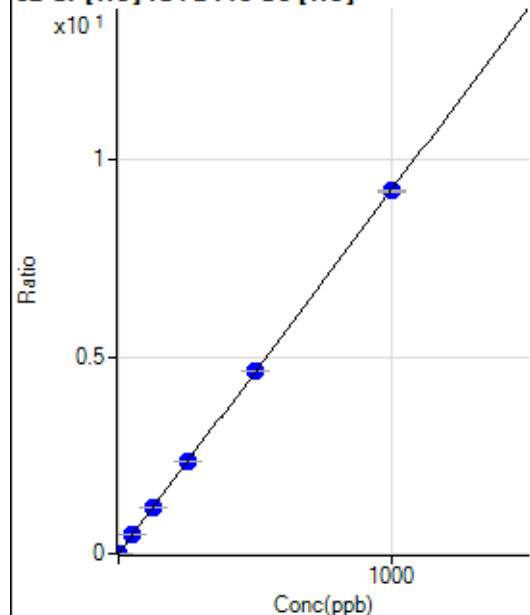
$$R = 1.0000$$

$$DL = 0.002304$$

$$BEC = 0.005961$$

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	1335.63	0.0042	P	3.1
2	☐	2.000	2.106	7437.49	0.0237	P	2.3
3	☐	50.000	51.173	147328.96	0.4768	P	0.5
4	☐	125.000	127.985	360909.84	1.1860	P	1.0
5	☐	250.000	254.733	686570.41	2.3563	P	0.6
6	☐	500.000	501.462	1305508.74	4.6345	P	0.5
7	☐	1000.000	997.654	2526651.45	9.2161	P	0.7
8	☐			5531.09	0.0196	P	1.5

$$y = 0.0092 * x + 0.0042$$

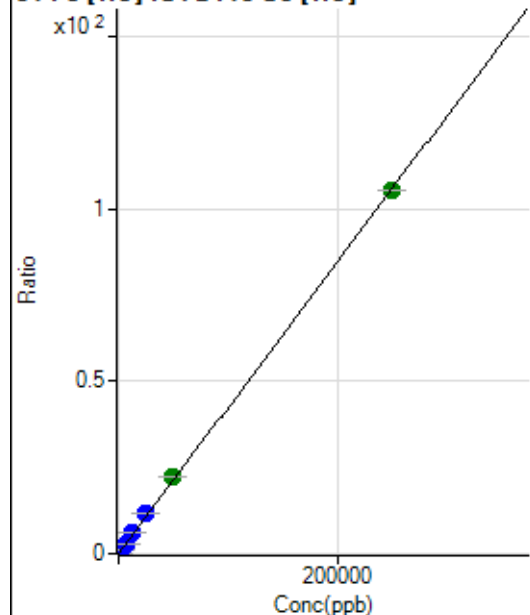
$$R = 1.0000$$

$$DL = 0.04216$$

$$BEC = 0.4599$$

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	930.99	0.0030	P	6.7
2	☐	50.000	60.419	8941.94	0.0285	P	1.6
3	☐	2500.000	2883.958	377504.94	1.2216	P	0.2
4	☐	6250.000	7130.489	917784.18	3.0159	P	1.1
5	☐	12500.000	14274.779	1758378.05	6.0347	P	0.5
6	☐	25000.000	28136.920	3349859.87	11.8921	P	0.9
7	☐	50000.000	52460.491	6078069.37	22.1699	A	0.3
8	☐	250000.00	249079.61	29657841.17	105.2505	A	0.1

$$y = 4.2255E-004 * x + 0.0030$$

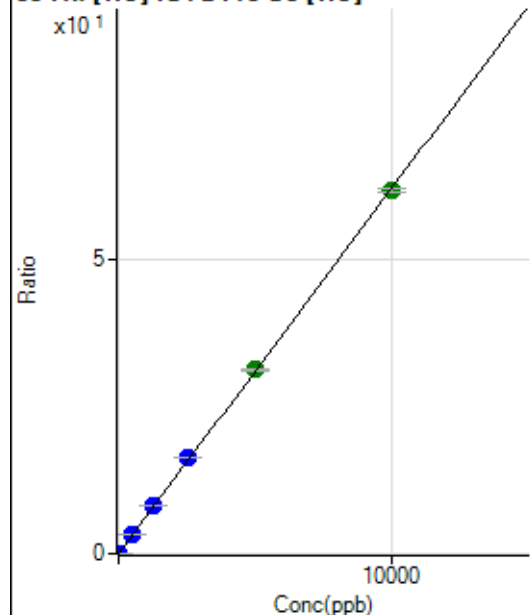
$$R = 0.9999$$

$$DL = 1.404$$

$$BEC = 7.004$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0004	P	18.2
2	☐	1.000	1.090	2240.20	0.0071	P	6.4
3	☐	500.000	529.058	1013757.94	3.2805	P	0.4
4	☐	1250.000	1311.603	2474713.99	8.1322	P	0.8
5	☐	2500.000	2628.466	4748407.19	16.2966	P	0.7
6	☐	5000.000	5039.253	8800995.98	31.2432	A	0.6
7	☐	10000.000	9939.104	16893986.00	61.6217	A	0.9
8	☐			9293.01	0.0330	P	2.0

$$y = 0.0062 * x + 3.8152E-004$$

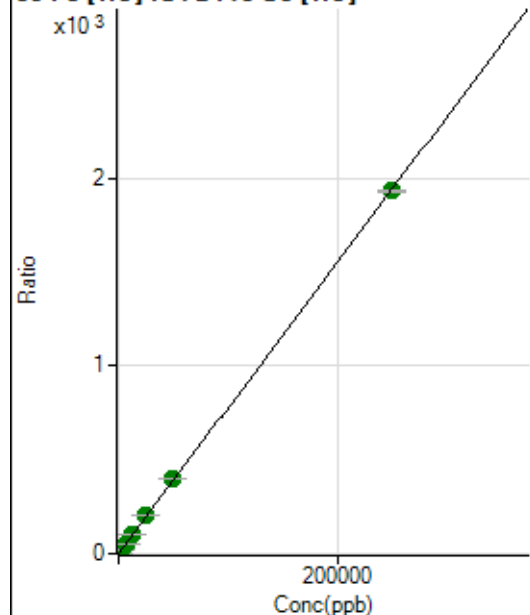
$$R = 0.9999$$

$$DL = 0.03354$$

$$BEC = 0.06154$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5493.73	0.0175	P	2.3
2	☐	50.000	59.957	151372.86	0.4823	P	0.3
3	☐	2500.000	2673.021	6408845.45	20.7394	A	1.1
4	☐	6250.000	6620.592	15623983.45	51.3420	A	0.8
5	☐	12500.000	13264.575	29967887.71	102.8478	A	0.1
6	☐	25000.000	26295.017	57424989.24	203.8631	A	1.2
7	☐	50000.000	51906.462	110323299.6	402.4095	A	1.0
8	☐	250000.00	249439.98	544870493.6	1933.739	A	0.6

$$y = 0.0078 * x + 0.0175$$

$$R = 1.0000$$

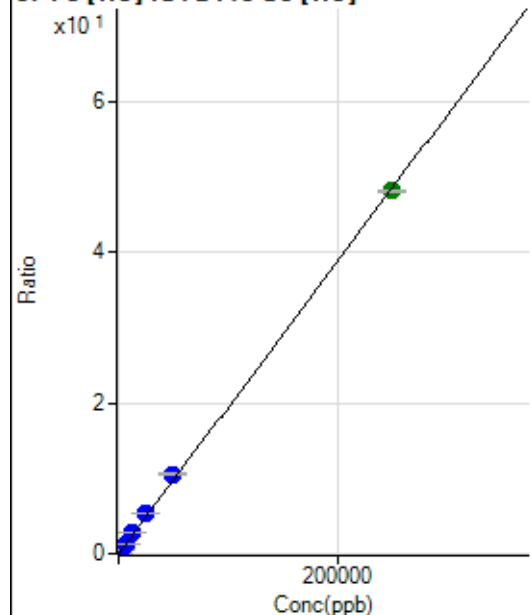
$$DL = 0.1533$$

$$BEC = 2.253$$

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	172.23	0.0005	P	16.2
2	☐	50.000	58.930	3756.10	0.0120	P	3.5
3	☐	2500.000	2803.746	168038.56	0.5438	P	0.3
4	☐	6250.000	6988.116	412177.32	1.3545	P	0.8
5	☐	12500.000	14003.858	790705.93	2.7137	P	0.6
6	☐	25000.000	27604.678	1506735.49	5.3488	P	0.7
7	☐	50000.000	54565.356	2898466.30	10.5723	P	0.5
8	☐	250000.00	248729.77	13578427.85	48.1905	A	0.8

$$y = 1.9374\text{E-}004 * x + 5.4764\text{E-}004$$

$$R = 0.9998$$

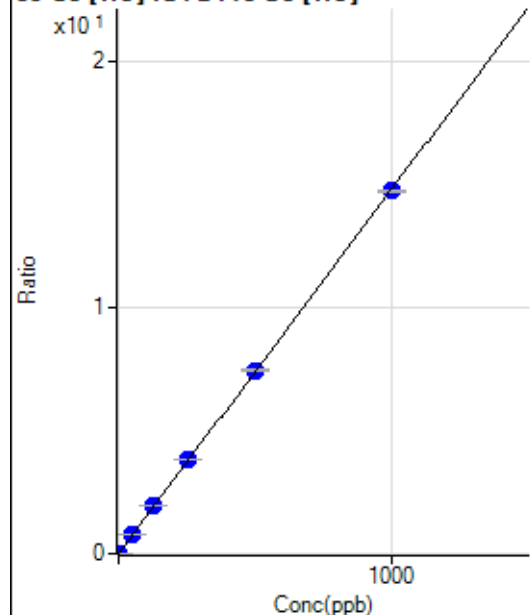
$$DL = 1.375$$

$$BEC = 2.827$$

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	76.67	0.0002	P	4.4
2	☐	1.000	1.127	5321.01	0.0170	P	2.3
3	☐	50.000	52.315	239792.14	0.7760	P	0.9
4	☐	125.000	129.924	586327.40	1.9267	P	0.6
5	☐	250.000	256.703	1109146.30	3.8066	P	0.4
6	☐	500.000	503.281	2102183.16	7.4628	P	0.9
7	☐	1000.000	995.953	4048745.25	14.7680	P	0.6
8	☐			5926.80	0.0210	P	2.7

$$y = 0.0148 * x + 2.4378\text{E-}004$$

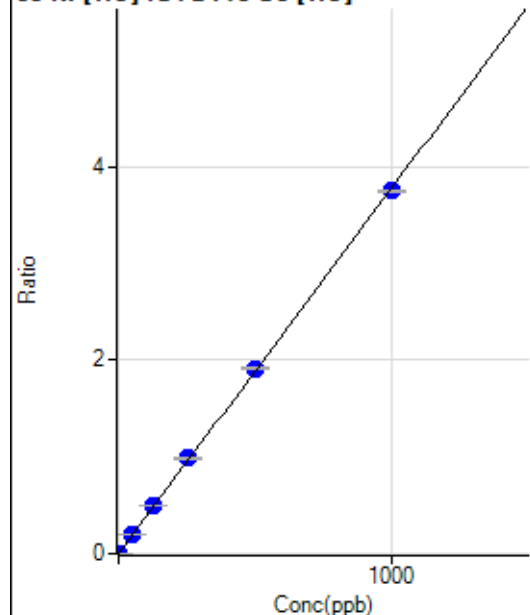
$$R = 1.0000$$

$$DL = 0.002181$$

$$BEC = 0.01644$$

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	240.00	0.0008	P	18.1
2	☐	1.000	1.094	1536.76	0.0049	P	3.1
3	☐	50.000	53.217	62372.76	0.2018	P	0.9
4	☐	125.000	130.981	150837.04	0.4957	P	0.7
5	☐	250.000	260.478	286990.34	0.9850	P	0.4
6	☐	500.000	506.639	539449.73	1.9150	P	0.7
7	☐	1000.000	993.152	1028991.36	3.7533	P	0.5
8	☐			1797.91	0.0064	P	2.9

$$y = 0.0038 * x + 7.6344E-004$$

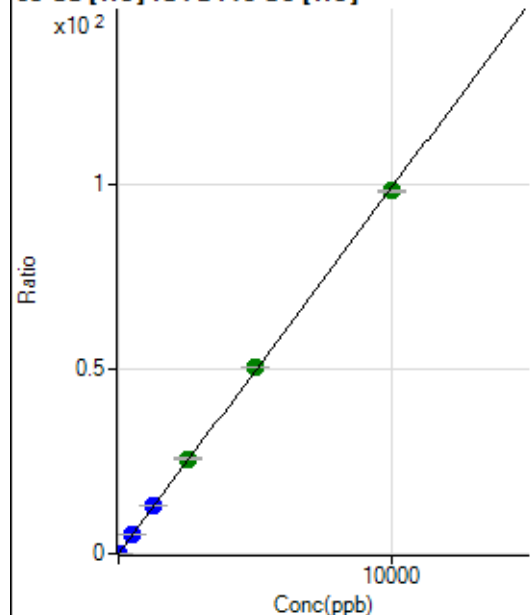
$$R = 0.9999$$

$$DL = 0.1096$$

$$BEC = 0.2021$$

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	764.47	0.0024	P	6.9
2	☐	2.000	2.179	7545.35	0.0240	P	1.5
3	☐	500.000	539.687	1654587.08	5.3542	P	0.7
4	☐	1250.000	1330.455	4015649.80	13.1959	P	0.8
5	☐	2500.000	2599.228	7511139.89	25.7776	A	0.4
6	☐	5000.000	5094.405	14231249.37	50.5210	A	0.8
7	☐	10000.000	9915.949	26959004.60	98.3338	A	0.3
8	☐			6651.57	0.0236	P	2.1

$$y = 0.0099 * x + 0.0024$$

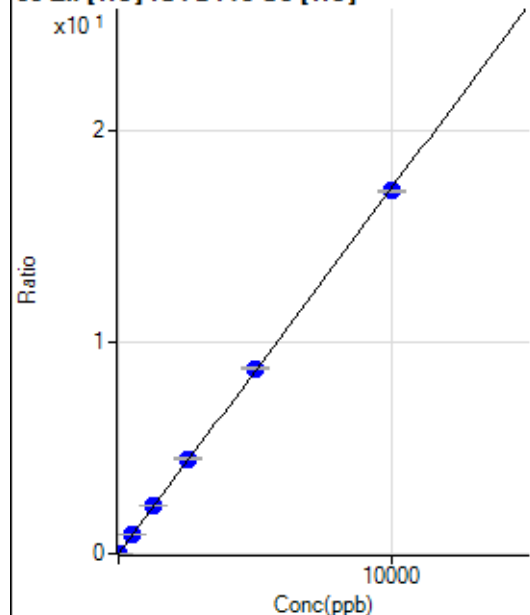
$$R = 0.9999$$

$$DL = 0.05086$$

$$BEC = 0.2451$$

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	356.68	0.0011	P	13.5
2	☐	2.000	2.339	1626.77	0.0052	P	4.3
3	☐	500.000	522.715	279955.43	0.9059	P	1.0
4	☐	1250.000	1302.251	686303.18	2.2553	P	1.2
5	☐	2500.000	2596.416	1309857.80	4.4955	P	0.7
6	☐	5000.000	5077.417	2476099.13	8.7900	P	0.5
7	☐	10000.000	9929.520	4712488.78	17.1889	P	0.2
8	☐			7654.30	0.0272	P	3.0

$$y = 0.0017 * x + 0.0011$$

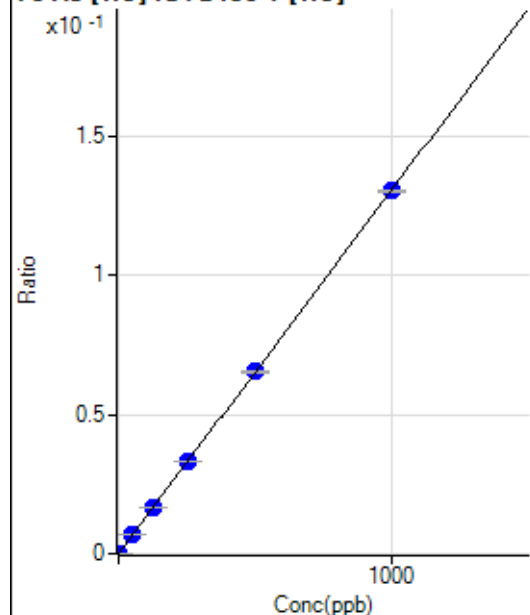
$$R = 0.9999$$

$$DL = 0.2653$$

$$BEC = 0.6554$$

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	13.58	0.0000	P	34.9
2	☐	1.000	1.052	345.68	0.0001	P	14.6
3	☐	50.000	51.023	16076.19	0.0067	P	0.6
4	☐	125.000	126.841	39284.90	0.0166	P	0.7
5	☐	250.000	253.662	75808.78	0.0331	P	0.8
6	☐	500.000	500.976	145237.38	0.0655	P	0.9
7	☐	1000.000	998.315	281589.25	0.1304	P	0.9
8	☐			114.20	0.0001	P	6.3

$$y = 1.3065E-004 * x + 5.6348E-006$$

$$R = 1.0000$$

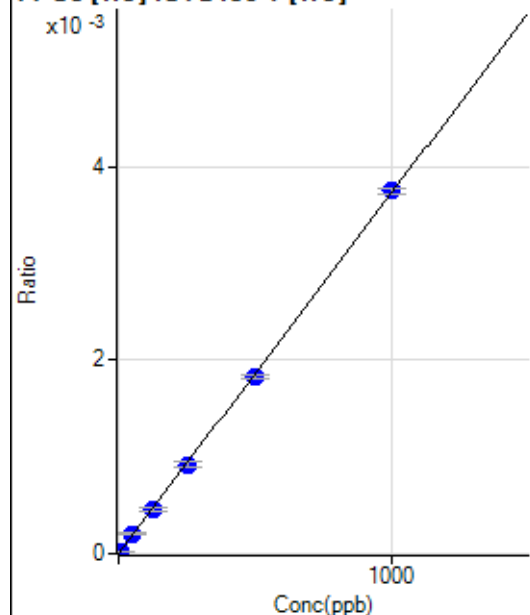
$$DL = 0.0451$$

$$BEC = 0.04313$$

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	4.568	41.11	0.0000	P	33.1
3	☐	50.000	54.447	488.90	0.0002	P	10.2
4	☐	125.000	123.223	1087.83	0.0005	P	7.9
5	☐	250.000	247.103	2105.73	0.0009	P	5.6
6	☐	500.000	489.857	4049.50	0.0018	P	1.4
7	☐	1000.000	1005.798	8090.11	0.0037	P	1.7
8	☐			2.22	0.0000	P	86.6

$$y = 3.7255\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

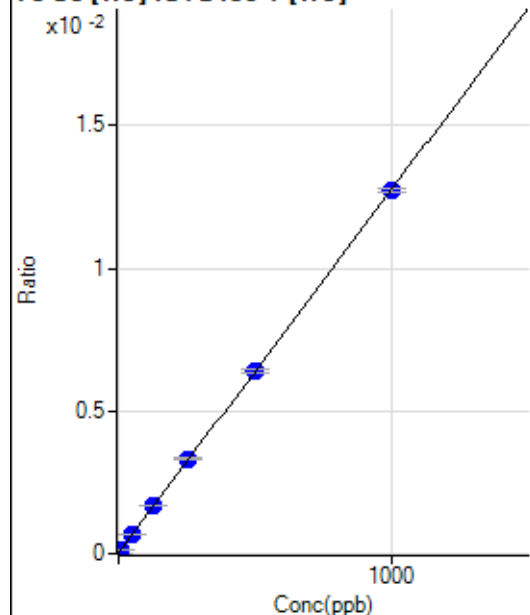
$$DL = 0$$

$$BEC = 0$$

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	74.69	0.0000	P	9.9
2	☐	5.000	6.180	264.82	0.0001	P	3.7
3	☐	50.000	51.274	1646.40	0.0007	P	2.5
4	☐	125.000	129.581	3979.57	0.0017	P	2.7
5	☐	250.000	258.604	7595.23	0.0033	P	1.2
6	☐	500.000	501.408	14221.80	0.0064	P	2.1
7	☐	1000.000	996.503	27435.15	0.0127	P	1.2
8	☐			90.12	0.0000	P	17.6

$$y = 1.2722\text{E-}005 * x + 3.0948\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.7255$$

$$BEC = 2.433$$

Weight: <None>

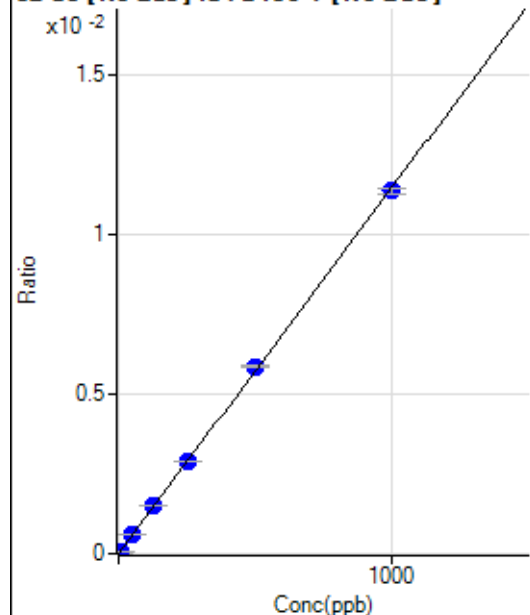
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8210.90		P	3.1
2	☐			8322.10		P	2.8
3	☐			7982.97		P	2.0
4	☐			8361.00		P	2.9
5	☐			7643.90		P	3.4
6	☐			6943.54		P	6.4
7	☐			6762.91		P	4.6
8	☐			6610.01		P	1.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.72		P	27.0
2	☐			36.70		P	68.6
3	☐			43.38		P	58.1
4	☐			33.37		P	34.6
5	☐			60.06		P	60.1
6	☐			43.38		P	26.6
7	☐			43.38		P	26.6
8	☐			70.07		P	42.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-9.88	0.0000	P	-669.
2	☐	5.000	4.816	626.38	0.0001	P	10.4
3	☐	50.000	52.240	6838.88	0.0006	P	1.5
4	☐	125.000	131.101	16754.01	0.0015	P	1.9
5	☐	250.000	252.958	32599.22	0.0029	P	0.3
6	☐	500.000	512.385	62847.04	0.0059	P	0.4
7	☐	1000.000	992.194	118731.59	0.0114	P	1.3
8	☐			-59.64	0.0000	P	-120.

$$y = 1.1452E-005 * x - 8.1182E-007$$

R = 0.9999

DL = 1.424

BEC = -0.07089

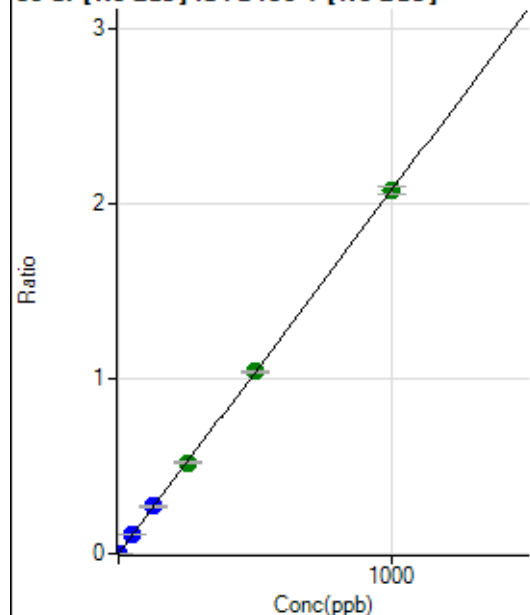
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			777.81		P	3.0
2	☐			844.48		P	0.8
3	☐			824.48		P	6.1
4	☐			768.92		P	1.4
5	☐			738.91		P	8.3
6	☐			708.91		P	7.5
7	☐			756.69		P	5.4
8	☐			763.36		P	8.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1291.76	0.0001	P	12.1
2	☐	1.000	0.117	4086.81	0.0004	P	0.6
3	☐	50.000	52.447	1246513.77	0.1089	P	0.4
4	☐	125.000	129.862	3008864.59	0.2695	P	0.9
5	☐	250.000	250.462	5848951.26	0.5196	A	0.8
6	☐	500.000	501.372	11140862.84	1.0400	A	0.6
7	☐	1000.000	998.469	21642049.96	2.0711	A	2.1
8	☐			6871.23	0.0007	P	4.2

$$y = 0.0021 * x + 1.1187E-004$$

$$R = 1.0000$$

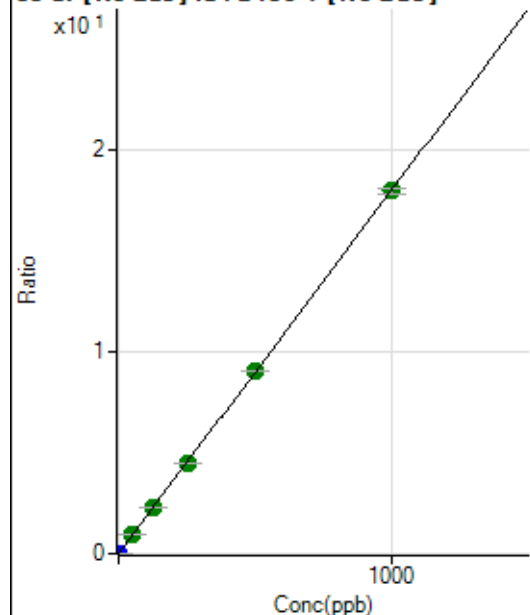
$$DL = 0.01951$$

$$BEC = 0.05393$$

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	305.57	0.0000	P	3.4
2	☐	1.000	0.120	25197.54	0.0022	P	1.2
3	☐	50.000	50.900	10484522.98	0.9159	A	0.1
4	☐	125.000	125.752	25266968.62	2.2628	A	0.3
5	☐	250.000	250.120	50661868.84	4.5006	A	0.6
6	☐	500.000	502.354	96829609.11	9.0393	A	0.3
7	☐	1000.000	998.655	187782387.5	17.9697	A	1.6
8	☐			51306.05	0.0052	P	0.6

$$y = 0.0180 * x + 2.6480E-005$$

$$R = 1.0000$$

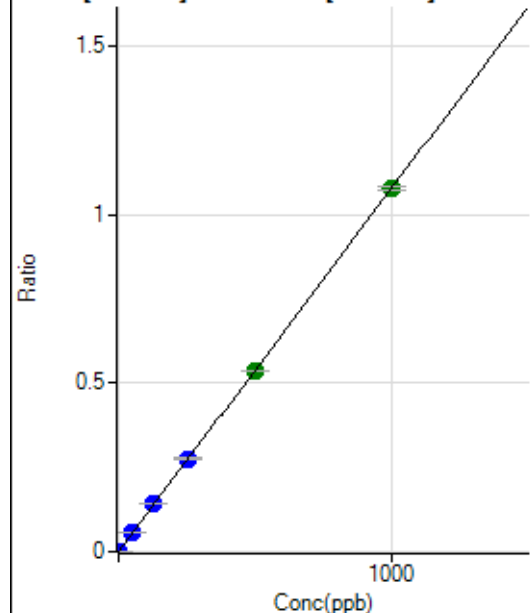
$$DL = 0.0001493$$

$$BEC = 0.001472$$

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	872.28	0.0001	P	5.7
2	☐	1.000	1.049	13923.75	0.0012	P	4.7
3	☐	50.000	52.282	646804.93	0.0565	P	0.3
4	☐	125.000	130.381	1572171.17	0.1408	P	0.8
5	☐	250.000	255.847	3109231.67	0.2762	P	0.9
6	☐	500.000	498.213	5761068.92	0.5378	A	0.7
7	☐	1000.000	998.645	11264933.33	1.0779	A	1.0
8	☐			2647.54	0.0003	P	5.8

$$y = 0.0011 * x + 7.5607E-005$$

$$R = 1.0000$$

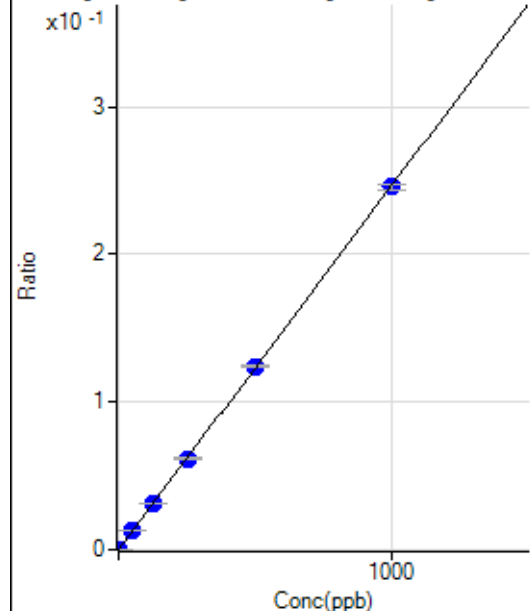
$$DL = 0.01195$$

$$BEC = 0.07005$$

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	169.45	0.0000	P	8.0
2	☐	1.000	1.054	3161.54	0.0003	P	7.0
3	☐	50.000	51.275	144724.02	0.0126	P	1.4
4	☐	125.000	127.440	350643.52	0.0314	P	0.2
5	☐	250.000	250.564	694821.91	0.0617	P	1.1
6	☐	500.000	504.415	1330947.66	0.1242	P	0.7
7	☐	1000.000	997.283	2566925.75	0.2456	P	1.4
8	☐			588.91	0.0001	P	9.0

$$y = 2.4629E-004 * x + 1.4687E-005$$

$$R = 1.0000$$

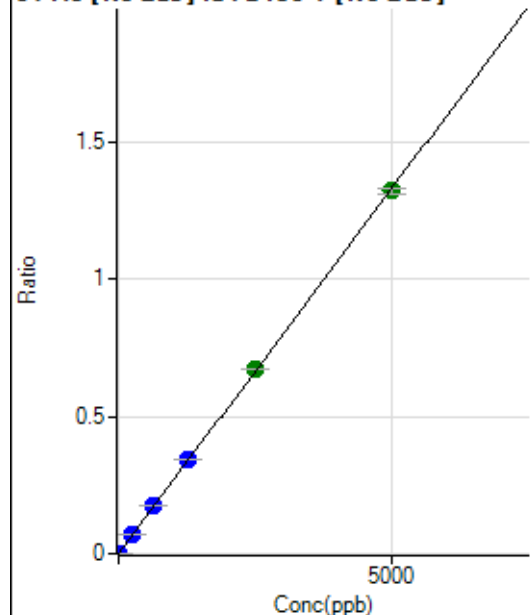
$$DL = 0.01426$$

$$BEC = 0.05963$$

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	313.90	0.0000	P	6.1
2	☐	5.000	5.247	16395.89	0.0014	P	2.3
3	☐	250.000	262.856	800642.65	0.0699	P	0.2
4	☐	625.000	656.488	1950059.22	0.1746	P	1.1
5	☐	1250.000	1290.771	3865036.24	0.3434	P	0.6
6	☐	2500.000	2525.250	7195398.34	0.6717	A	0.1
7	☐	5000.000	4972.603	13821946.57	1.3227	A	1.6
8	☐			3611.67	0.0004	P	3.8

$$y = 2.6599\text{E-}004 * x + 2.7193\text{E-}005$$

$$R = 0.9999$$

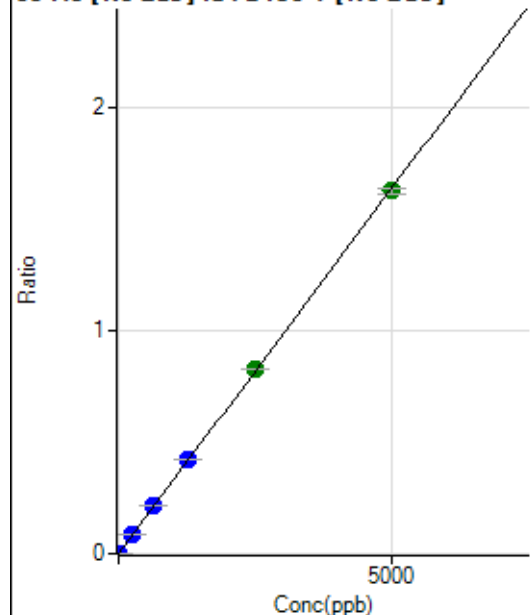
$$DL = 0.01859$$

$$BEC = 0.1022$$

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	52.78	0.0000	P	25.1
2	☐	5.000	5.544	20957.41	0.0018	P	1.5
3	☐	250.000	265.990	996291.69	0.0870	P	0.5
4	☐	625.000	657.723	2402989.85	0.2152	P	1.2
5	☐	1250.000	1296.329	4774564.47	0.4242	P	1.0
6	☐	2500.000	2527.206	8857772.07	0.8269	A	0.7
7	☐	5000.000	4969.925	16993833.89	1.6261	A	1.5
8	☐			4520.28	0.0005	P	5.5

$$y = 3.2720\text{E-}004 * x + 4.5799\text{E-}006$$

$$R = 0.9999$$

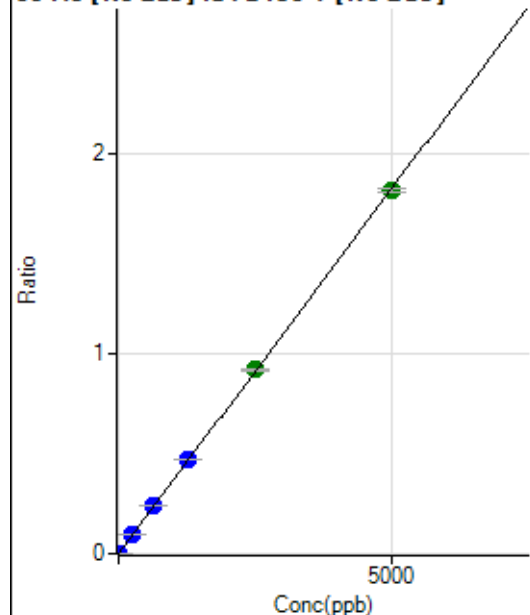
$$DL = 0.01054$$

$$BEC = 0.014$$

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	108.33	0.0000	P	57.1
2	☐	5.000	5.526	23286.08	0.0020	P	1.6
3	☐	250.000	264.773	1103038.89	0.0964	P	0.8
4	☐	625.000	655.873	2665166.12	0.2387	P	0.6
5	☐	1250.000	1295.623	5307347.25	0.4715	P	0.8
6	☐	2500.000	2520.839	9826676.43	0.9174	A	0.4
7	☐	5000.000	4973.577	18914645.56	1.8099	A	0.9
8	☐			6282.12	0.0006	P	3.9

$$y = 3.6390\text{E-}004 * x + 9.3607\text{E-}006$$

$$R = 0.9999$$

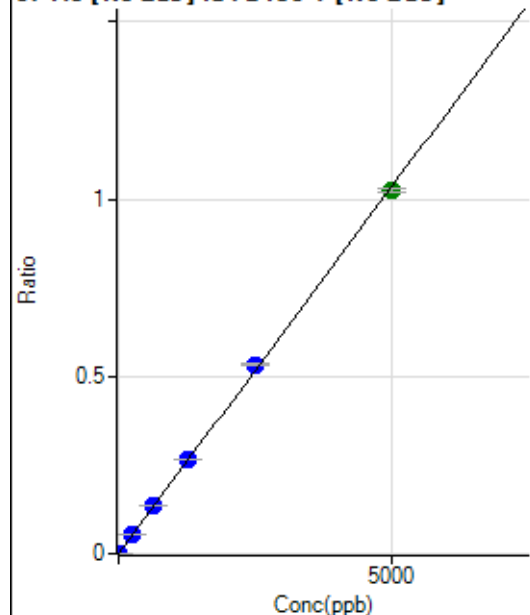
$$DL = 0.04406$$

$$BEC = 0.02572$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	70.4
2	☐	5.000	5.482	13089.69	0.0011	P	3.6
3	☐	250.000	263.367	623395.00	0.0545	P	0.9
4	☐	625.000	652.976	1507669.70	0.1350	P	0.4
5	☐	1250.000	1281.775	2983437.53	0.2650	P	0.5
6	☐	2500.000	2581.091	5717024.13	0.5337	P	0.5
7	☐	5000.000	4947.345	10690741.38	1.0230	A	0.9
8	☐			2797.57	0.0003	P	6.5

$$y = 2.0677\text{E-}004 * x + 2.4195\text{E-}006$$

$$R = 0.9998$$

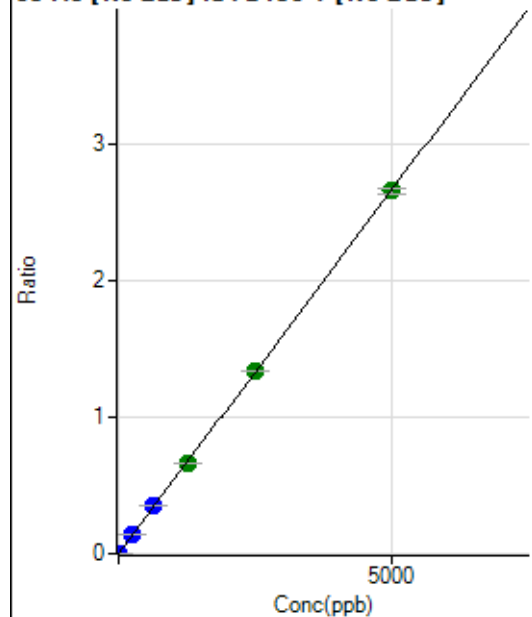
$$DL = 0.02473$$

$$BEC = 0.0117$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	39.6
2	☐	5.000	5.444	33481.41	0.0029	P	1.3
3	☐	250.000	265.979	1620511.35	0.1416	P	0.3
4	☐	625.000	663.100	3940737.85	0.3529	P	0.7
5	☐	1250.000	1240.840	7433961.62	0.6604	A	0.2
6	☐	2500.000	2510.985	14315524.97	1.3364	A	0.3
7	☐	5000.000	4991.236	27760172.84	2.6564	A	1.4
8	☐			6993.58	0.0007	P	6.9

$$y = 5.3222\text{E-}004 * x + 7.9408\text{E-}006$$

$$R = 1.0000$$

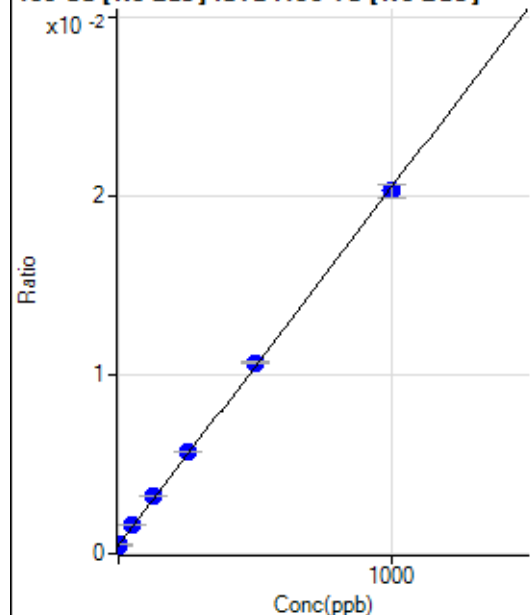
$$DL = 0.01771$$

$$BEC = 0.01492$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5476.22	0.0005	P	7.3
2	☐	1.000	1.876	5898.63	0.0005	P	5.0
3	☐	50.000	55.472	18315.10	0.0016	P	1.6
4	☐	125.000	137.616	36689.57	0.0032	P	2.0
5	☐	250.000	261.973	65869.42	0.0057	P	1.2
6	☐	500.000	510.099	119857.71	0.0107	P	0.6
7	☐	1000.000	990.106	222885.74	0.0203	P	3.4
8	☐			5045.46	0.0005	P	2.6

$$y = 1.9987\text{E-}005 * x + 4.7343\text{E-}004$$

$$R = 0.9998$$

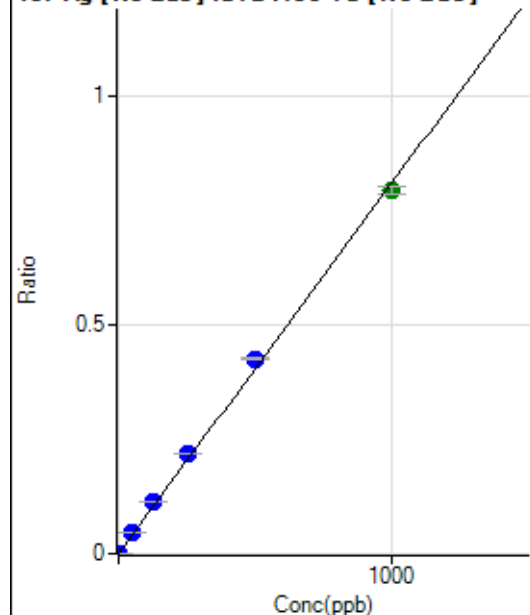
$$DL = 5.208$$

$$BEC = 23.69$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	83.34	0.0000	P	39.9
2	☐	1.000	1.154	10884.95	0.0009	P	6.4
3	☐	50.000	56.925	534274.24	0.0462	P	0.5
4	☐	125.000	139.454	1286585.31	0.1131	P	1.2
5	☐	250.000	269.834	2523750.94	0.2188	P	0.4
6	☐	500.000	526.071	4791152.89	0.4265	P	0.7
7	☐	1000.000	979.853	8738927.54	0.7943	A	2.1
8	☐			2022.41	0.0002	P	6.0

$$y = 8.1066\text{E-}004 * x + 7.2015\text{E-}006$$

$$R = 0.9992$$

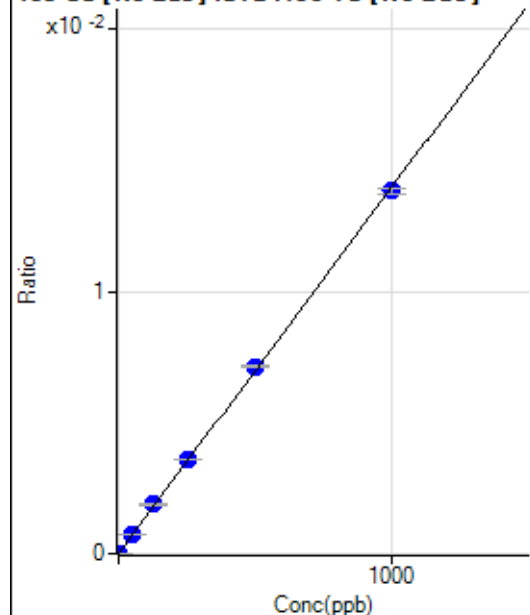
$$DL = 0.01063$$

$$BEC = 0.008884$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	68.05	0.0000	P	13.1
2	☐	1.000	0.922	216.67	0.0000	P	30.0
3	☐	50.000	53.862	8773.64	0.0008	P	1.1
4	☐	125.000	133.992	21356.39	0.0019	P	2.0
5	☐	250.000	257.487	41542.47	0.0036	P	1.3
6	☐	500.000	511.431	80284.61	0.0071	P	1.2
7	☐	1000.000	991.095	152299.71	0.0138	P	1.6
8	☐			204.17	0.0000	P	28.0

$$y = 1.3962\text{E-}005 * x + 5.8874\text{E-}006$$

$$R = 0.9998$$

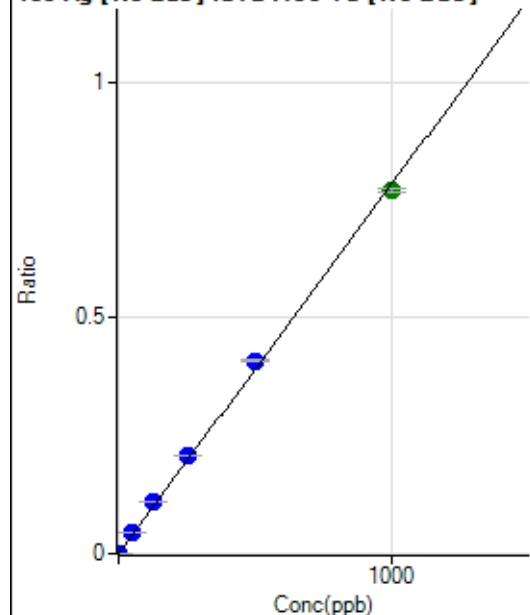
$$DL = 0.1663$$

$$BEC = 0.4217$$

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	11.11	0.0000	P	114.1
2	☐	1.000	1.161	10523.58	0.0009	P	3.0
3	☐	50.000	56.155	509583.78	0.0440	P	0.5
4	☐	125.000	138.468	1235283.65	0.1085	P	0.7
5	☐	250.000	266.998	2414816.18	0.2093	P	0.5
6	☐	500.000	522.881	4604906.44	0.4099	P	0.6
7	☐	1000.000	982.318	8472354.62	0.7700	A	1.1
8	☐			1980.74	0.0002	P	2.3

$$y = 7.8391\text{E-}004 * x + 9.5785\text{E-}007$$

$$R = 0.9994$$

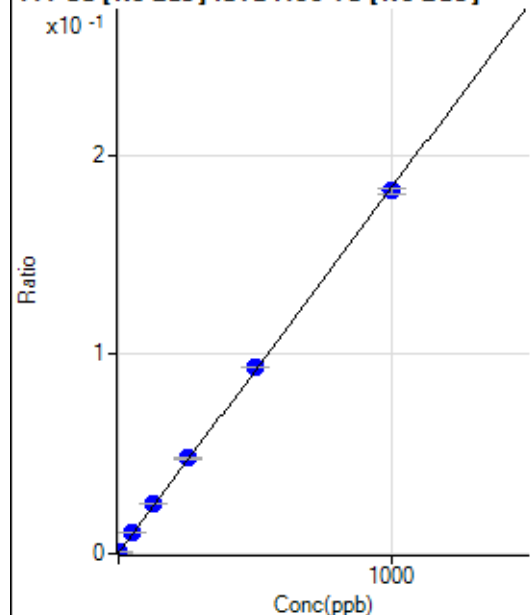
$$DL = 0.004184$$

$$BEC = 0.001222$$

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	3821.83	0.0003	P	6.9
2	☐	1.000	1.202	6359.55	0.0006	P	4.1
3	☐	50.000	53.963	118361.28	0.0102	P	0.4
4	☐	125.000	134.044	283449.11	0.0249	P	0.4
5	☐	250.000	259.206	552116.85	0.0479	P	0.3
6	☐	500.000	509.290	1052771.42	0.0937	P	0.5
7	☐	1000.000	991.724	2004120.66	0.1822	P	1.6
8	☐			3750.03	0.0004	P	3.5

$$y = 1.8335\text{E-}004 * x + 3.3041\text{E-}004$$

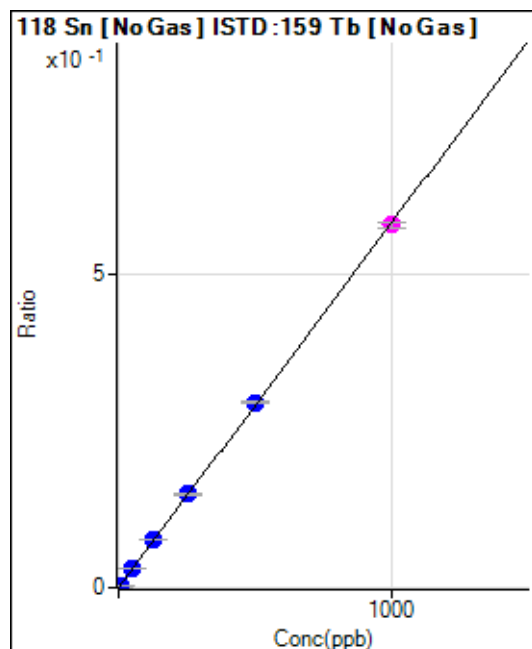
$$R = 0.9999$$

$$DL = 0.3741$$

$$BEC = 1.802$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1144.54	0.0001	P	7.6
2	☐	5.000	5.378	37288.73	0.0032	P	1.2
3	☐	50.000	52.865	357331.19	0.0309	P	0.8
4	☐	125.000	131.270	870638.17	0.0765	P	0.2
5	☐	250.000	255.623	1717641.05	0.1489	P	0.6
6	☐	500.000	506.125	3310605.58	0.2947	P	1.0
7	☐	1000.000	994.603	6369966.63	0.5790	M	1.6
8	☐			2553.08	0.0002	P	6.9

$$y = 5.8204\text{E-}004 * x + 9.8948\text{E-}005$$

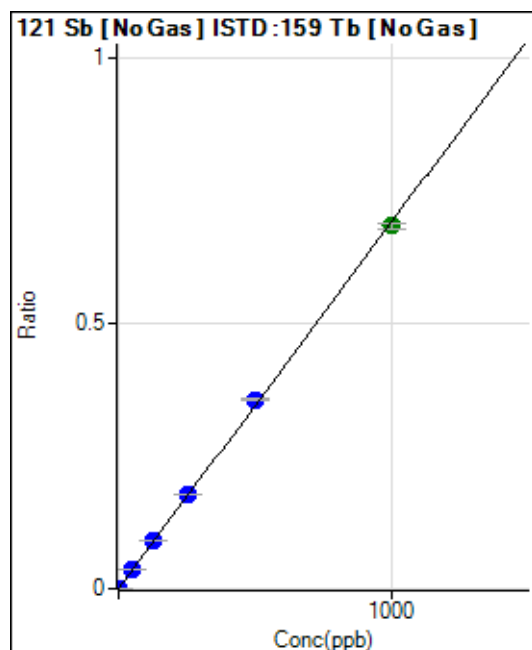
$$R = 0.9999$$

$$DL = 0.03889$$

$$BEC = 0.17$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	172.23	0.0000	P	28.0
2	☐	2.000	2.196	17678.20	0.0015	P	2.7
3	☐	50.000	52.831	422333.75	0.0365	P	0.4
4	☐	125.000	130.714	1027006.62	0.0902	P	0.4
5	☐	250.000	258.315	2057356.19	0.1783	P	0.5
6	☐	500.000	514.562	3990600.09	0.3552	P	0.9
7	☐	1000.000	989.784	7517203.38	0.6833	A	1.3
8	☐			6510.03	0.0006	P	2.8

$$y = 6.9029\text{E-}004 * x + 1.4905\text{E-}005$$

$$R = 0.9998$$

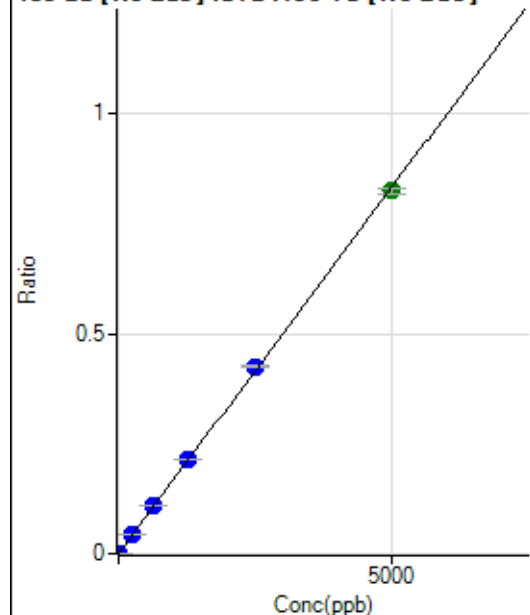
$$DL = 0.01813$$

$$BEC = 0.02159$$

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	41.67	0.0000	P	19.8
2	☐	10.000	11.074	21333.45	0.0018	P	0.5
3	☐	250.000	265.862	512532.09	0.0443	P	0.4
4	☐	625.000	652.574	1236695.69	0.1087	P	0.3
5	☐	1250.000	1288.022	2474567.66	0.2145	P	0.1
6	☐	2500.000	2558.036	4785435.39	0.4260	P	1.2
7	☐	5000.000	4957.234	9081554.80	0.8255	A	1.7
8	☐			2800.37	0.0003	P	4.1

$$y = 1.6652\text{E-}004 * x + 3.6020\text{E-}006$$

$$R = 0.9999$$

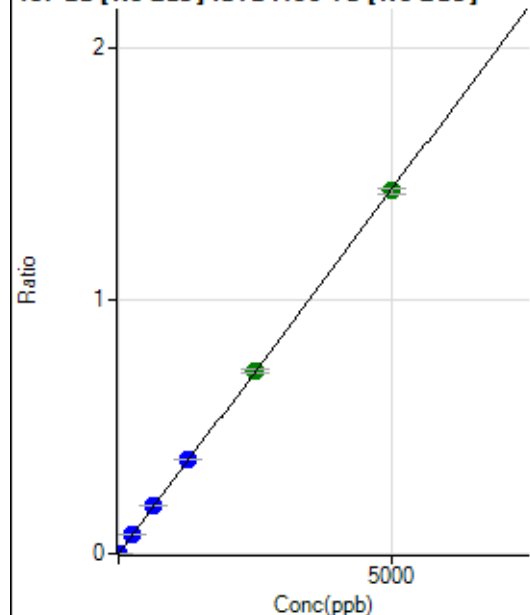
$$DL = 0.01285$$

$$BEC = 0.02163$$

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	38.89	0.0000	P	66.0
2	☐	10.000	11.098	36932.86	0.0032	P	2.3
3	☐	250.000	265.384	884589.99	0.0764	P	0.6
4	☐	625.000	659.102	2159657.49	0.1898	P	0.7
5	☐	1250.000	1291.180	4289068.11	0.3718	P	0.4
6	☐	2500.000	2505.569	8104578.39	0.7214	A	1.4
7	☐	5000.000	4981.887	15780427.61	1.4344	A	1.9
8	☐			4748.16	0.0004	P	2.8

$$y = 2.8793\text{E-}004 * x + 3.3687\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02315$$

$$BEC = 0.0117$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

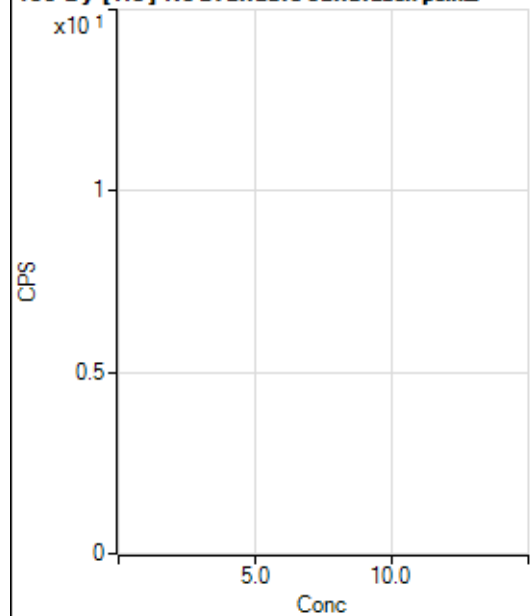
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			6.67		P	100.0
3	☐			46.67		P	62.3
4	☐			133.33		P	8.7
5	☐			200.01		P	20.3
6	☐			448.90		P	11.1
7	☐			722.26		P	10.4
8	☐			53.33		P	0.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			7.78		P	99.0
4	☐			16.67		P	69.3
5	☐			30.00		P	38.5
6	☐			62.22		P	22.3
7	☐			111.11		P	30.8
8	☐			13.33		P	43.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	69.3
2	☐			11.11		P	43.3
3	☐			38.89		P	44.6
4	☐			86.11		P	31.1
5	☐			161.12		P	26.0
6	☐			369.46		P	27.8
7	☐			711.15		P	6.9
8	☐			1344.54		P	0.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			3.33		P	100.1
3	☐			30.00		P	50.9
4	☐			61.11		P	3.1
5	☐			122.23		P	4.2
6	☐			206.67		P	18.6
7	☐			440.01		P	6.7
8	☐			920.04		P	6.3

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

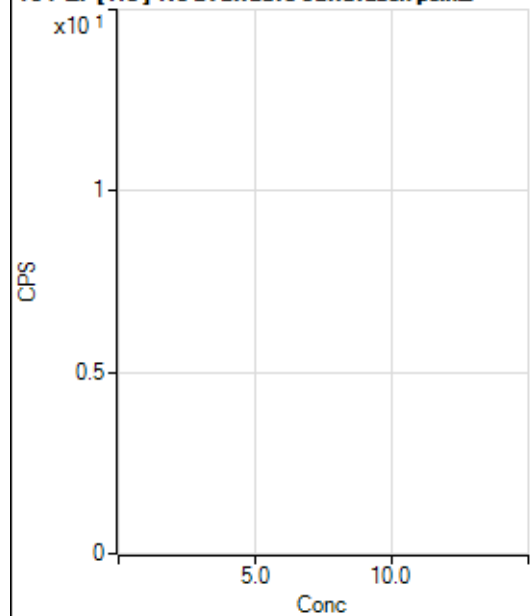
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	72.7
2	☐			66.67		P	12.5
3	☐			108.34		P	33.5
4	☐			116.67		P	12.4
5	☐			194.45		P	13.1
6	☐			338.91		P	32.7
7	☐			580.59		P	7.4
8	☐			1511.24		P	5.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			161.12		P	20.4
2	☐			151.11		P	3.4
3	☐			164.45		P	7.1
4	☐			192.23		P	14.0
5	☐			237.78		P	12.6
6	☐			322.23		P	8.4
7	☐			490.01		P	4.8
8	☐			1176.73		P	4.6

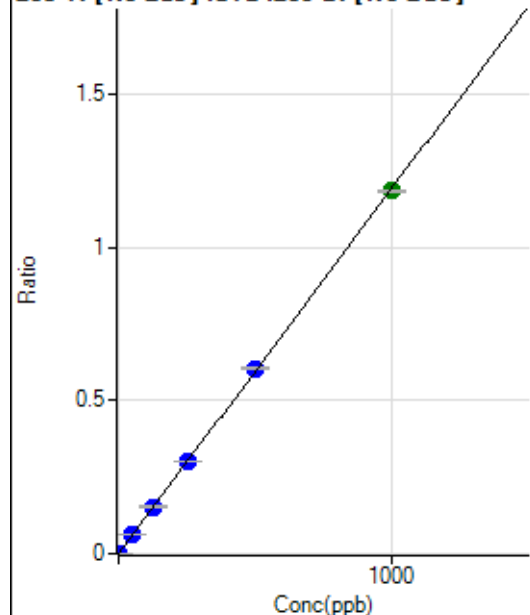
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.67		P	24.1
2	☐			80.56		P	26.0
3	☐			66.67		P	37.5
4	☐			83.34		P	10.0
5	☐			111.11		P	24.1
6	☐			116.67		P	12.4
7	☐			166.67		P	35.0
8	☐			288.90		P	10.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	17.6
2	☐			40.00		P	30.0
3	☐			54.44		P	17.7
4	☐			63.33		P	27.8
5	☐			75.55		P	9.2
6	☐			80.00		P	4.2
7	☐			108.89		P	17.4
8	☐			174.45		P	10.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	286.12	0.0000	P	6.3
2	☐	1.000	1.059	10476.61	0.0013	P	4.5
3	☐	50.000	51.722	498445.16	0.0616	P	0.8
4	☐	125.000	128.803	1218906.33	0.1533	P	0.6
5	☐	250.000	253.714	2431717.53	0.3019	P	0.9
6	☐	500.000	508.028	4758484.70	0.6045	P	0.8
7	☐	1000.000	994.496	9016161.57	1.1832	A	0.7
8	☐			3750.64	0.0005	P	11.0

$$y = 0.0012 * x + 3.5439E-005$$

$$R = 0.9999$$

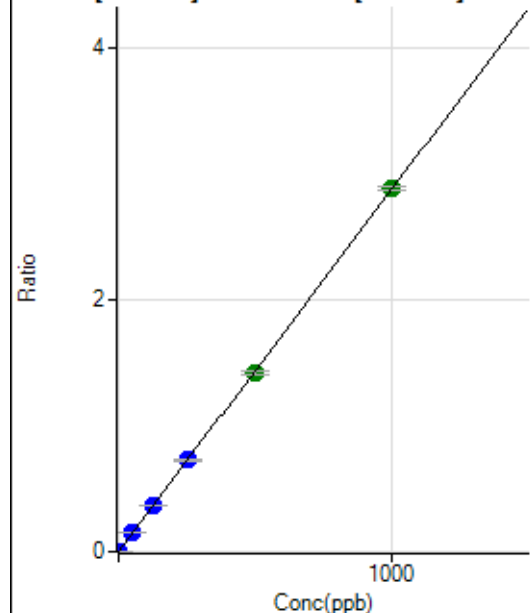
$$DL = 0.005619$$

$$BEC = 0.02979$$

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	652.81	0.0001	P	6.1
2	☐	1.000	1.085	25814.44	0.0032	P	1.8
3	☐	50.000	51.332	1193090.59	0.1474	P	0.5
4	☐	125.000	128.592	2934927.89	0.3691	P	0.3
5	☐	250.000	252.981	5847572.00	0.7260	P	1.2
6	☐	500.000	493.426	11145681.07	1.4159	A	1.5
7	☐	1000.000	1002.026	21908763.68	2.8753	A	1.1
8	☐			9381.38	0.0014	P	15.1

$$y = 0.0029 * x + 8.0838E-005$$

$$R = 1.0000$$

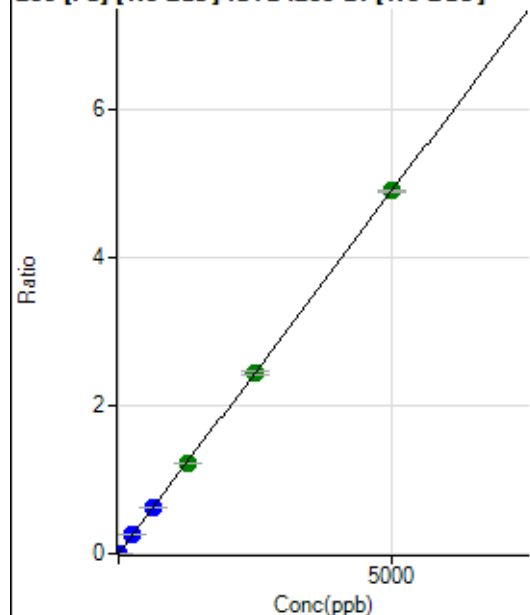
$$DL = 0.005185$$

$$BEC = 0.02817$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	990.80	0.0001	P	10.4
2	☐	1.000	1.078	9527.63	0.0012	P	3.2
3	☐	250.000	254.760	2021570.08	0.2497	P	0.5
4	☐	625.000	633.669	4937788.77	0.6209	P	0.5
5	☐	1250.000	1245.293	9827861.10	1.2201	A	1.3
6	☐	2500.000	2488.491	19191470.11	2.4381	A	2.1
7	☐	5000.000	5005.609	37369282.32	4.9041	A	0.6
8	☐			17869.58	0.0026	P	1.5

$$y = 9.7970\text{E-}004 * x + 1.2274\text{E-}004$$

$$R = 1.0000$$

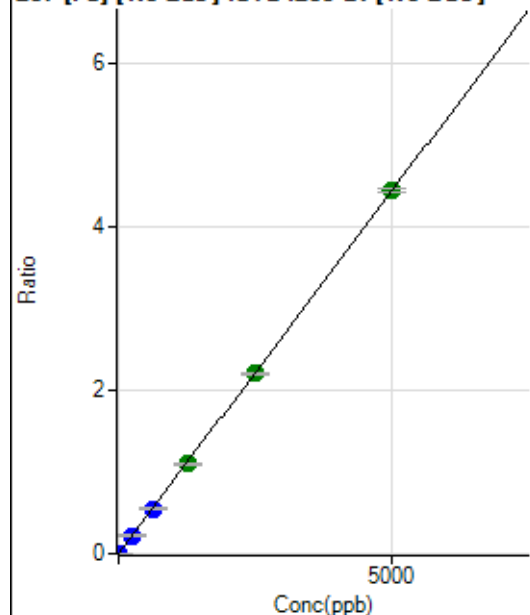
$$DL = 0.03912$$

$$BEC = 0.1253$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	848.19	0.0001	P	5.7
2	☐	1.000	1.072	8543.59	0.0011	P	2.0
3	☐	250.000	251.709	1810220.64	0.2236	P	1.2
4	☐	625.000	622.960	4399827.99	0.5533	P	0.3
5	☐	1250.000	1244.964	8904617.85	1.1056	A	2.4
6	☐	2500.000	2486.573	17381866.48	2.2081	A	1.3
7	☐	5000.000	5008.142	33886674.37	4.4472	A	1.0
8	☐			15859.66	0.0023	P	3.8

$$y = 8.8796\text{E-}004 * x + 1.0504\text{E-}004$$

$$R = 1.0000$$

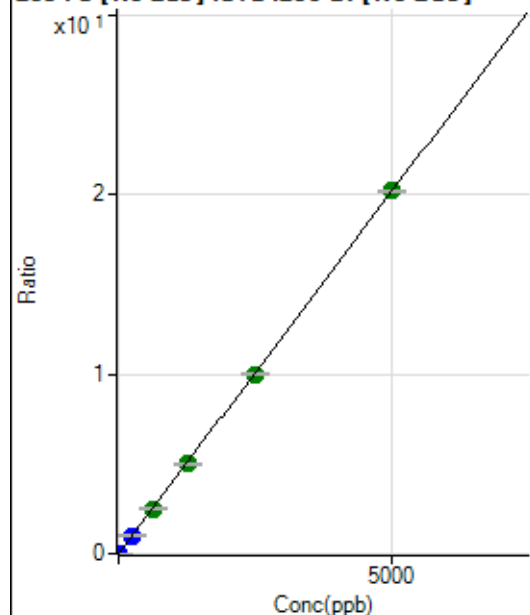
$$DL = 0.02025$$

$$BEC = 0.1183$$

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	4022.54	0.0005	P	5.0
2	☐	1.000	1.054	38325.76	0.0047	P	3.3
3	☐	250.000	251.920	8217933.44	1.0151	P	0.8
4	☐	625.000	623.135	19962145.35	2.5102	A	0.9
5	☐	1250.000	1240.318	40240230.12	4.9960	A	1.6
6	☐	2500.000	2475.920	78502455.11	9.9724	A	1.3
7	☐	5000.000	5014.597	153900552.0	20.1971	A	0.7
8	☐			71880.14	0.0105	P	1.2

$$y = 0.0040 * x + 4.9822E-004$$

$$R = 1.0000$$

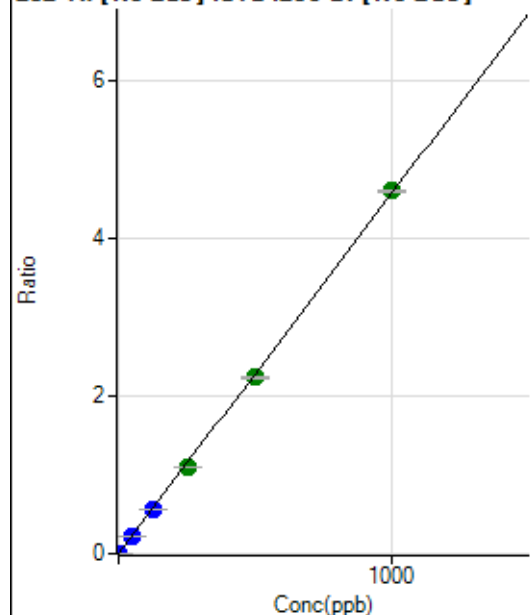
$$DL = 0.01846$$

$$BEC = 0.1237$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	453.72	0.0001	P	4.6
2	☐	1.000	-0.005	287.04	0.0000	P	5.4
3	☐	50.000	47.873	1771457.51	0.2188	P	1.0
4	☐	125.000	120.675	4385872.75	0.5515	P	0.7
5	☐	250.000	240.924	8868599.74	1.1010	A	0.9
6	☐	500.000	490.009	17627391.13	2.2393	A	1.3
7	☐	1000.000	1007.913	35097916.99	4.6060	A	0.4
8	☐			3670.95	0.0005	P	11.2

$$y = 0.0046 * x + 5.6197E-005$$

$$R = 0.9999$$

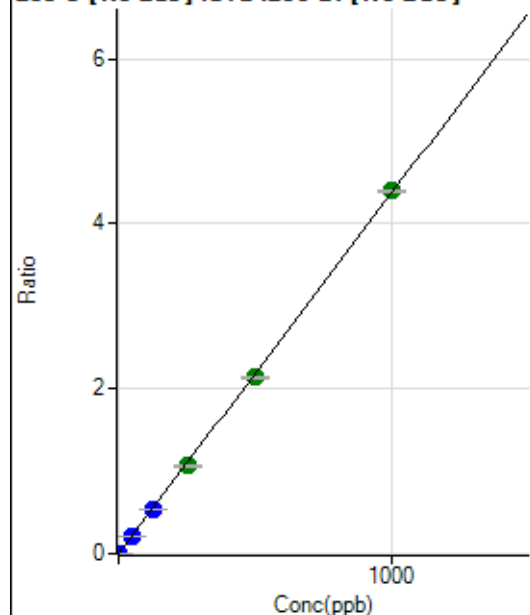
$$DL = 0.001696$$

$$BEC = 0.0123$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	141.67	0.0000	P	25.7
2	☐	1.000	1.007	35688.20	0.0044	P	1.2
3	☐	50.000	49.336	1744061.63	0.2155	P	2.0
4	☐	125.000	125.040	4342214.85	0.5460	P	0.4
5	☐	250.000	243.574	8566985.44	1.0636	A	1.5
6	☐	500.000	489.769	16835850.55	2.1387	A	0.9
7	☐	1000.000	1006.750	33498234.43	4.3961	A	0.8
8	☐			3775.65	0.0006	P	1.6

$$y = 0.0044 * x + 1.7549E-005$$

$$R = 0.9999$$

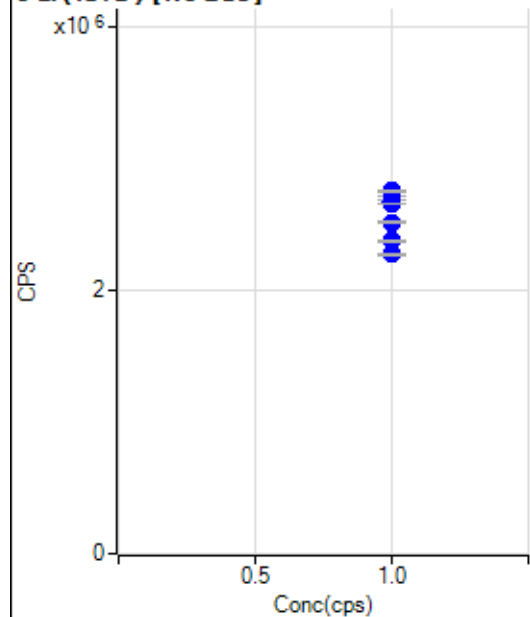
$$DL = 0.003101$$

$$BEC = 0.004019$$

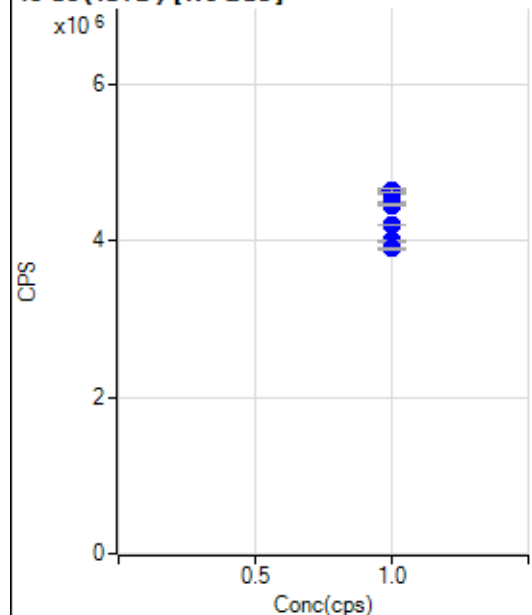
Weight: <None>

Min Conc: 0

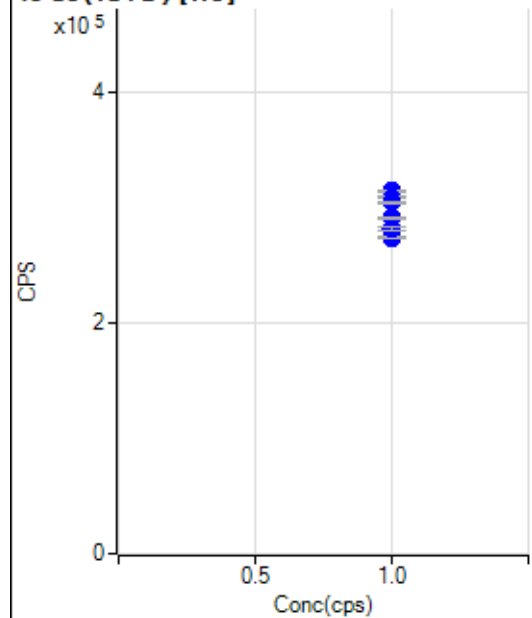
6 Li (ISTD) [No Gas]



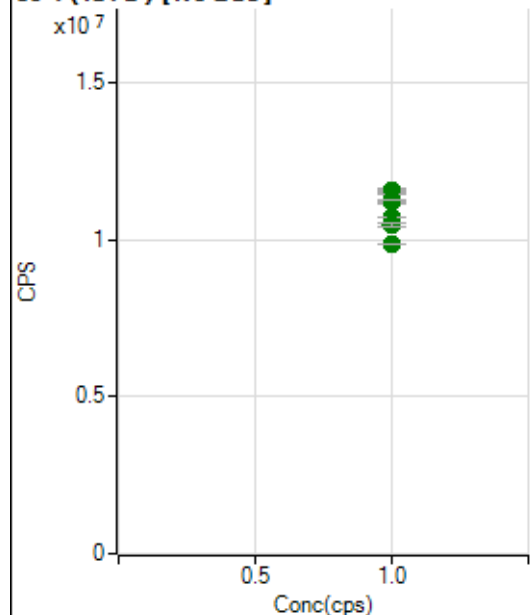
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2719996.90		P	0.1
2	☐	1.000		2751352.32		P	0.5
3	☐	1.000		2756191.63		P	0.4
4	☐	1.000		2674158.78		P	0.8
5	☐	1.000		2662930.59		P	0.2
6	☐	1.000		2517503.30		P	0.8
7	☐	1.000		2376892.39		P	0.9
8	☐	1.000		2272713.37		P	0.8

45 Sc (ISTD) [No Gas]

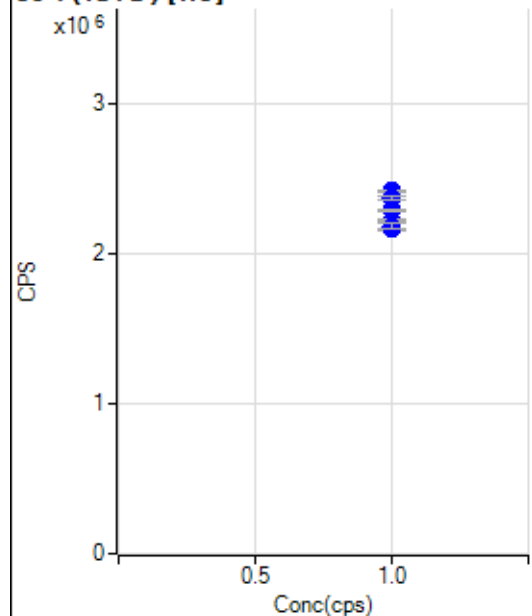
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4613631.91		P	0.9
2	☐	1.000		4639475.87		P	0.8
3	☐	1.000		4642896.63		P	1.2
4	☐	1.000		4493470.21		P	0.7
5	☐	1.000		4461920.67		P	0.9
6	☐	1.000		4214355.94		P	0.1
7	☐	1.000		3999154.87		P	1.0
8	☐	1.000		3901210.15		P	0.9

45 Sc (ISTD) [He]

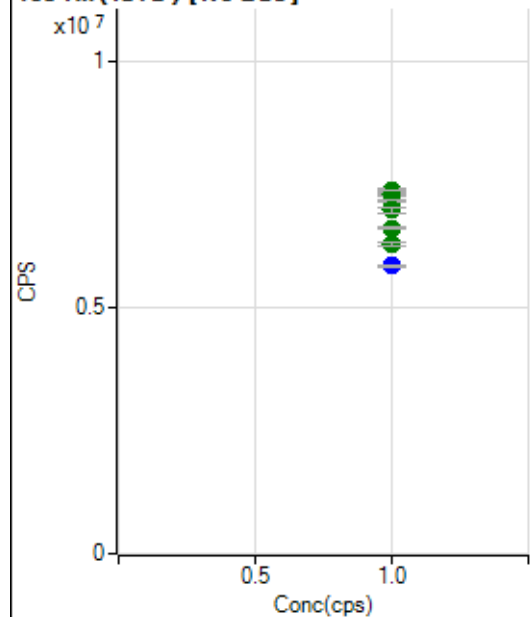
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		314505.18		P	0.4
2	☐	1.000		313882.11		P	0.6
3	☐	1.000		309031.74		P	0.6
4	☐	1.000		304322.64		P	0.7
5	☐	1.000		291379.66		P	0.5
6	☐	1.000		281700.71		P	0.8
7	☐	1.000		274158.92		P	0.2
8	☐	1.000		281783.87		P	1.3

89 Y (ISTD) [No Gas]

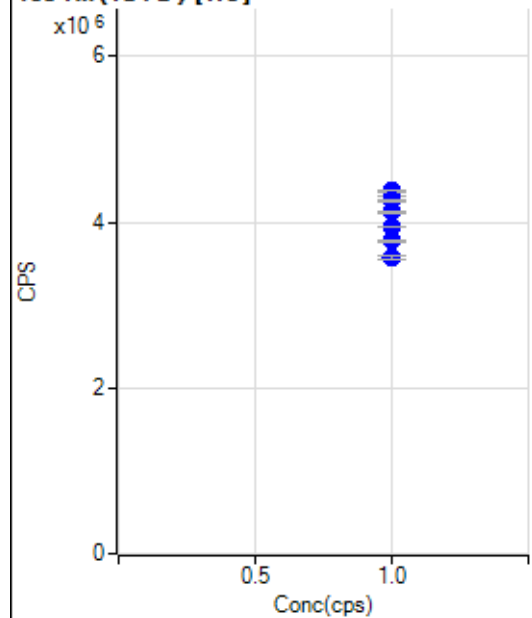
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11540908.30		A	1.3
2	☐	1.000		11524742.19		A	0.4
3	☐	1.000		11446965.38		A	0.1
4	☐	1.000		11166456.78		A	0.8
5	☐	1.000		11256650.39		A	0.4
6	☐	1.000		10712054.77		A	0.3
7	☐	1.000		10451478.46		A	1.4
8	☐	1.000		9859824.37		A	0.2

89 Y (ISTD) [He]

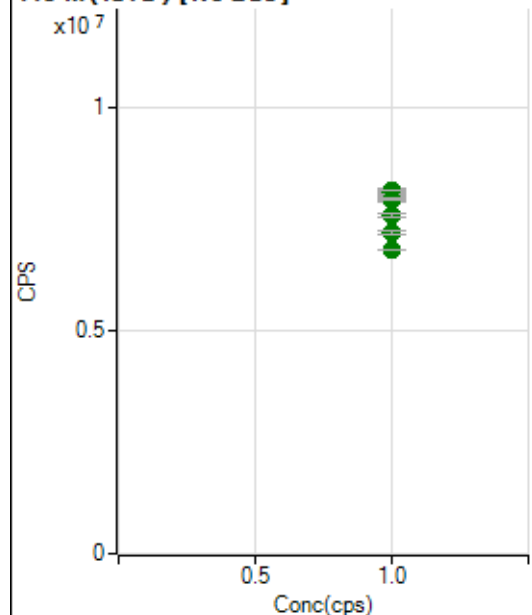
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2412800.88		P	0.5
2	☐	1.000		2416996.22		P	0.5
3	☐	1.000		2409662.06		P	0.6
4	☐	1.000		2369900.96		P	0.7
5	☐	1.000		2287190.38		P	0.7
6	☐	1.000		2218855.49		P	0.5
7	☐	1.000		2158925.11		P	0.5
8	☐	1.000		2181060.38		P	1.5

103 Rh (ISTD) [No Gas]

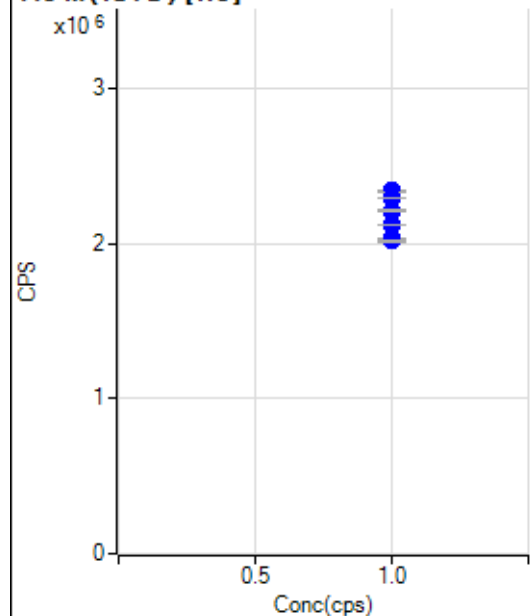
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7378482.39		A	1.2
2	☐	1.000		7322035.31		A	0.7
3	☐	1.000		7328355.38		A	1.5
4	☐	1.000		7178394.20		A	0.2
5	☐	1.000		6993978.30		A	1.9
6	☐	1.000		6618365.87		A	0.4
7	☐	1.000		6297531.30		A	1.7
8	☐	1.000		5854799.70		P	0.8

103 Rh (ISTD) [He]

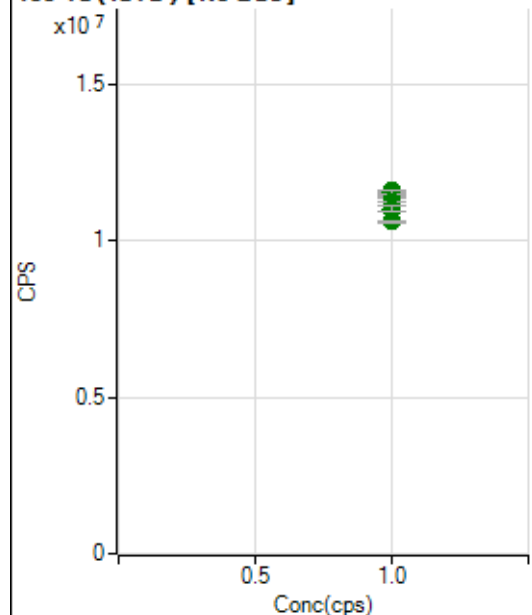
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4376967.99		P	0.6
2	☐	1.000		4356378.72		P	1.4
3	☐	1.000		4370841.95		P	0.6
4	☐	1.000		4264473.58		P	0.5
5	☐	1.000		4120877.23		P	0.7
6	☐	1.000		3946092.79		P	0.1
7	☐	1.000		3773363.24		P	0.6
8	☐	1.000		3575822.62		P	1.2

115 In (ISTD) [No Gas]

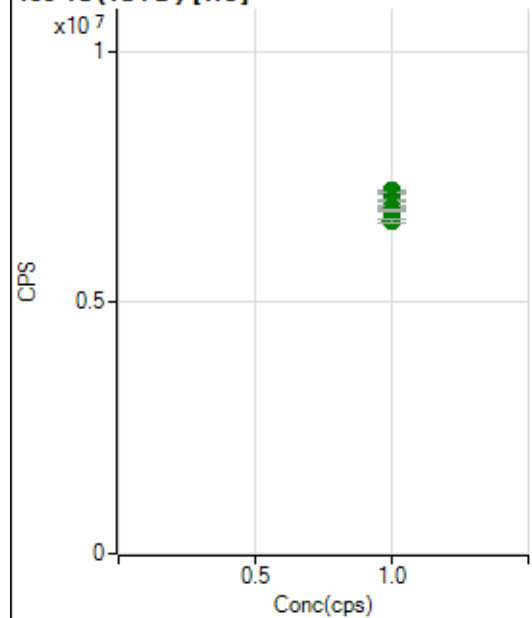
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8137096.36		A	1.0
2	☐	1.000		8089761.08		A	1.5
3	☐	1.000		8117346.86		A	0.9
4	☐	1.000		7942556.49		A	0.9
5	☐	1.000		7950223.88		A	0.3
6	☐	1.000		7577332.56		A	0.9
7	☐	1.000		7210078.65		A	1.3
8	☐	1.000		6814098.36		A	0.5

115 In (ISTD) [He]

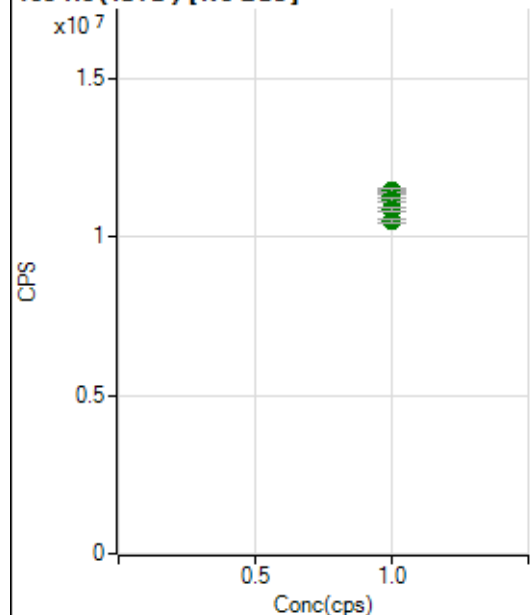
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2335458.62		P	0.4
2	☐	1.000		2338739.51		P	0.3
3	☐	1.000		2327409.98		P	0.1
4	☐	1.000		2290555.62		P	0.3
5	☐	1.000		2209548.89		P	0.8
6	☐	1.000		2122065.39		P	0.3
7	☐	1.000		2029173.70		P	0.3
8	☐	1.000		2015382.22		P	0.9

159 Tb (ISTD) [No Gas]

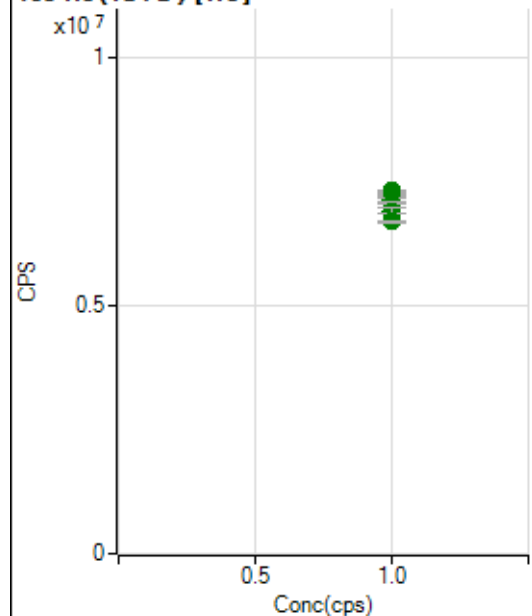
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11563740.24		A	0.6
2	☐	1.000		11546302.60		A	0.5
3	☐	1.000		11576202.05		A	0.7
4	☐	1.000		11380245.11		A	0.5
5	☐	1.000		11537189.41		A	0.8
6	☐	1.000		11234598.31		A	0.4
7	☐	1.000		11003422.20		A	1.5
8	☐	1.000		10599311.72		A	0.6

159 Tb (ISTD) [He]

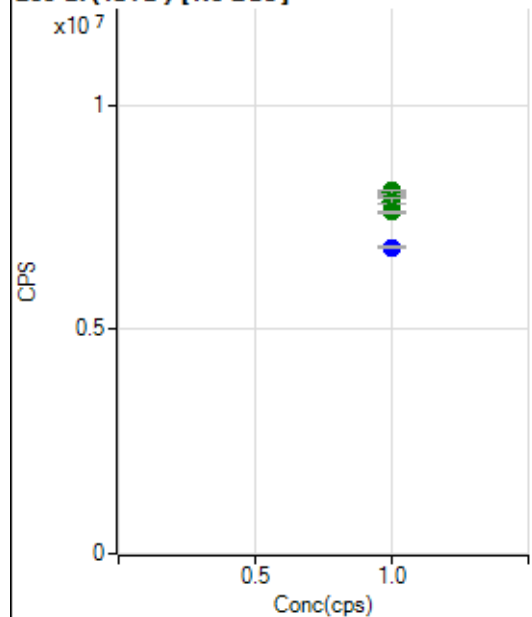
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7161793.16		A	0.3
2	☐	1.000		7198094.34		A	0.8
3	☐	1.000		7216679.96		A	0.6
4	☐	1.000		7186272.46		A	0.3
5	☐	1.000		7025598.78		A	0.5
6	☐	1.000		6900857.12		A	0.6
7	☐	1.000		6814073.23		A	0.4
8	☐	1.000		6629739.69		A	1.0

165 Ho (ISTD) [No Gas]

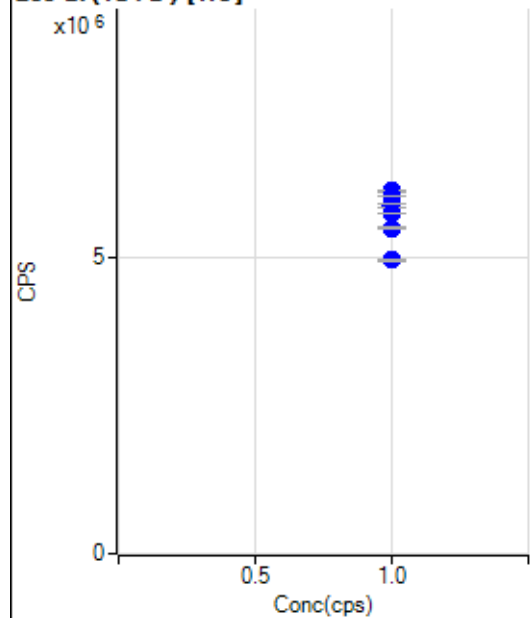
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11367711.36		A	0.7
2	☐	1.000		11415826.63		A	0.8
3	☐	1.000		11350383.44		A	0.1
4	☐	1.000		11270935.25		A	1.2
5	☐	1.000		11443518.86		A	1.2
6	☐	1.000		11168331.64		A	0.9
7	☐	1.000		10865763.73		A	1.4
8	☐	1.000		10501806.58		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7226875.80		A	0.9
2	☐	1.000		7314088.29		A	0.8
3	☐	1.000		7258920.17		A	0.5
4	☐	1.000		7201159.06		A	0.1
5	☐	1.000		7136981.21		A	1.3
6	☐	1.000		7067114.96		A	0.5
7	☐	1.000		6908407.05		A	1.6
8	☐	1.000		6700022.26		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8074506.41		A	0.3
2	☐	1.000		8083164.18		A	1.2
3	☐	1.000		8095821.89		A	0.9
4	☐	1.000		7952390.86		A	0.6
5	☐	1.000		8055438.84		A	1.1
6	☐	1.000		7872734.40		A	1.2
7	☐	1.000		7620259.47		A	1.0
8	☐	1.000		6834840.32		P	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6097811.92		P	0.7
2	☐	1.000		6108103.93		P	0.7
3	☐	1.000		6112232.41		P	0.7
4	☐	1.000		6026172.83		P	0.4
5	☐	1.000		5860254.43		P	1.3
6	☐	1.000		5735341.72		P	0.2
7	☐	1.000		5483204.09		P	0.8
8	☐	1.000		4948848.23		P	0.4

US EPA Tune Check Sample Report

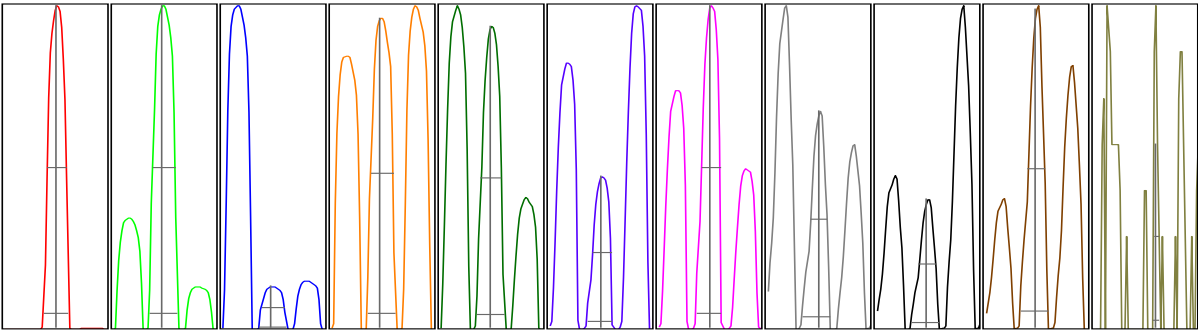
Batch Folder C:\Agilent\ICPMH\1\DATA\P7081421MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	8099	0.89	5.00	
24	98201	0.50	5.00	
25	13244	0.61	5.00	
26	14549	0.62	5.00	
59	18126	0.56	5.00	
113	11701	0.82	5.00	
115	33638	0.40	5.00	
206	17932	0.40	5.00	
207	15085	0.63	5.00	
208	37114	0.60	5.00	
220	0	83.85		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	8023	8178	8039	8084	8170
24	97581	98925	98237	97996	98266
25	13124	13323	13311	13216	13249
26	14455	14681	14562	14573	14473
59	18012	18278	18159	18117	18065
113	11642	11849	11599	11732	11683
115	33748	33816	33568	33498	33561
206	17929	18049	17909	17849	17926
207	15129	15212	14963	15031	15091
208	37154	37458	36888	36944	37126
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	14448	9.05	8.9 - 9.1		0.734	0.900	
24	154861	23.95	23.9 - 24.1		0.823	0.900	
25	20412	24.95	24.9 - 25.1		0.791	0.900	
26	23248	25.95	25.9 - 26.1		0.825	0.900	
59	31171	59.00	58.9 - 59.1		0.816	0.900	
113	21460	113.05	112.9 - 113.1		0.739	0.900	
115	61379	115.05	114.9 - 115.1		0.737	0.900	
206	35575	206.05	205.9 - 206.1		0.818	0.900	
207	29971	207.00	206.9 - 207.1		0.814	0.900	
208	74158	208.00	207.9 - 208.1		0.817	0.900	
220	0	220.35	-		0.196		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.9	V	Deflect	13.6	V
Extract 2	-130.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-70	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	170	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5827	0.64	
89	25883	0.45	
205	19084	0.64	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5845	5784	5788	5853	5863
89	26043	25791	25763	25952	25863
205	19295	19058	19040	19051	18976

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.1	V	Deflect	2.4	V
Extract 2	-140.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			