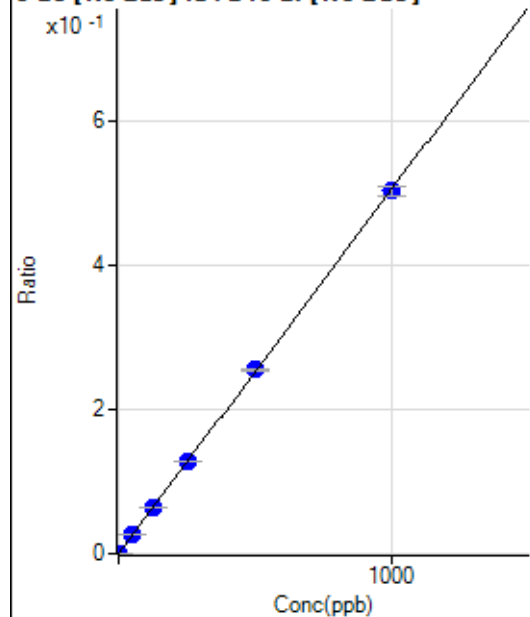


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8010521MS2.b\
Analysis File: P8010521MS2.batch.bin
DA Date-Time: 2021-01-08 14:38:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-05 15:40:52
2	004CAL.S.d	S02	2021-01-05 15:44:04
3	005CAL.S.d	S03	2021-01-05 15:47:13
4	006CAL.S.d	S04	2021-01-05 15:50:24
5	007CAL.S.d	S05	2021-01-05 15:53:28
6	008CAL.S.d	S06	2021-01-05 15:56:28
7	009CAL.S.d	S07	2021-01-05 15:59:26
8	010CAL.S.d	S08	2021-01-05 16:02:27

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	112.65	0.0001	P	17.5
2	☐	1.000	0.964	925.85	0.0006	P	2.7
3	☐	50.000	51.364	42069.24	0.0260	P	2.5
4	☐	125.000	126.431	108351.41	0.0639	P	3.5
5	☐	250.000	254.063	216812.17	0.1283	P	0.4
6	☐	500.000	505.173	437125.28	0.2551	P	1.4
7	☐	1000.000	996.151	847508.50	0.5030	P	2.8
8	☐			811.87	0.0005	P	17.7

$$y = 5.0483\text{E-}004 * x + 7.3540\text{E-}005$$

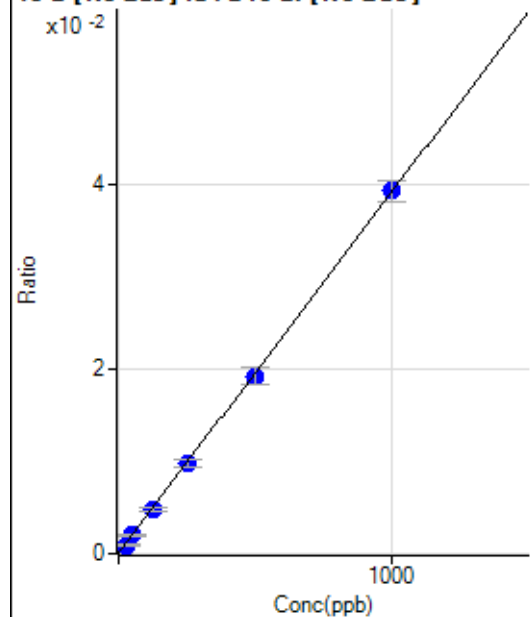
$$R = 1.0000$$

$$DL = 0.07666$$

$$BEC = 0.1457$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	67.99	0.0000	P	16.6
2	☐	25.000	22.074	1498.45	0.0009	P	8.1
3	☐	50.000	50.887	3291.73	0.0020	P	5.6
4	☐	125.000	122.402	8174.01	0.0048	P	11.4
5	☐	250.000	250.012	16590.74	0.0098	P	7.2
6	☐	500.000	491.368	32985.08	0.0193	P	9.1
7	☐	1000.000	1004.667	66360.36	0.0393	P	5.6
8	☐			10665.11	0.0064	P	8.1

$$y = 3.9096\text{E-}005 * x + 4.4372\text{E-}005$$

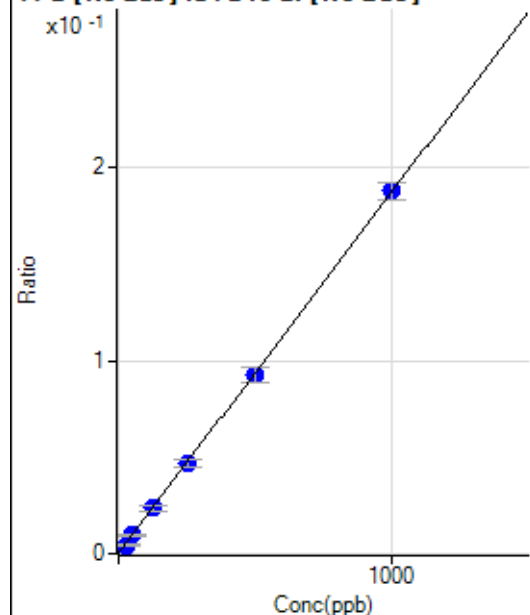
$$R = 0.9999$$

$$DL = 0.5654$$

$$BEC = 1.135$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	335.27	0.0002	P	8.4
2	☐	25.000	21.854	7115.68	0.0043	P	11.5
3	☐	50.000	50.575	15678.60	0.0097	P	8.0
4	☐	125.000	124.723	39879.33	0.0236	P	12.0
5	☐	250.000	248.534	78985.76	0.0467	P	7.6
6	☐	500.000	493.328	158584.74	0.0926	P	8.6
7	☐	1000.000	1003.787	317440.95	0.1881	P	4.7
8	☐			50737.87	0.0303	P	8.7

$$y = 1.8721E-004 * x + 2.1804E-004$$

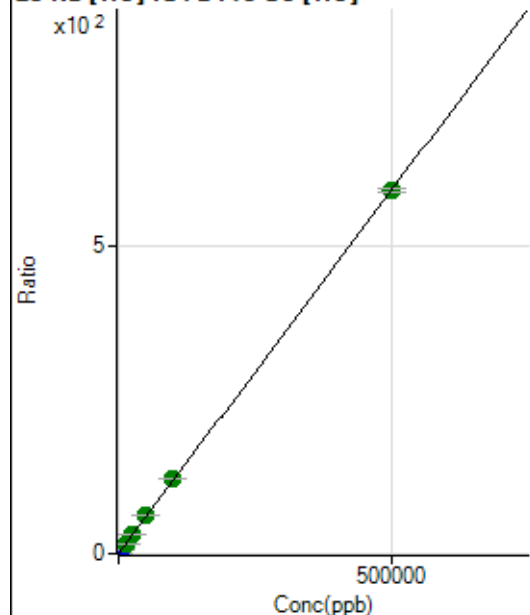
$$R = 1.0000$$

$$DL = 0.2922$$

$$BEC = 1.165$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27495.85	0.3151	P	1.4
2	☐	500.000	515.002	80100.01	0.9225	P	3.6
3	☐	5000.000	5485.002	585656.66	6.7842	P	2.1
4	☐	12500.000	13214.761	1421288.64	15.9009	A	0.7
5	☐	25000.000	26537.369	2740756.66	31.6140	A	1.3
6	☐	50000.000	52367.046	5544714.32	62.0782	A	1.8
7	☐	100000.00	102912.69	11014190.18	121.6930	A	1.2
8	☐	500000.00	499081.15	52597560.20	588.9446	A	1.1

$$y = 0.0012 * x + 0.3151$$

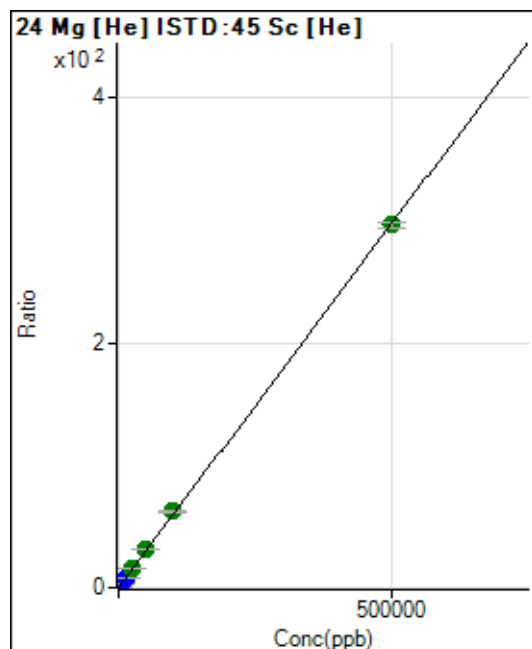
$$R = 1.0000$$

$$DL = 11.18$$

$$BEC = 267.1$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	411.13	0.0047	P	15.3
2	☐	500.000	524.797	27476.47	0.3166	P	5.8
3	☐	5000.000	5581.573	286735.78	3.3216	P	2.0
4	☐	12500.000	13624.313	724075.52	8.1010	P	1.4
5	☐	25000.000	27345.807	1409283.62	16.2549	A	0.2
6	☐	50000.000	53294.360	2829495.79	31.6749	A	0.5
7	☐	100000.00	104659.93	5629511.89	62.1988	A	1.4
8	☐	500000.00	498587.33	26459669.69	296.2901	A	1.6

$$y = 5.9425\text{E-}004 * x + 0.0047$$

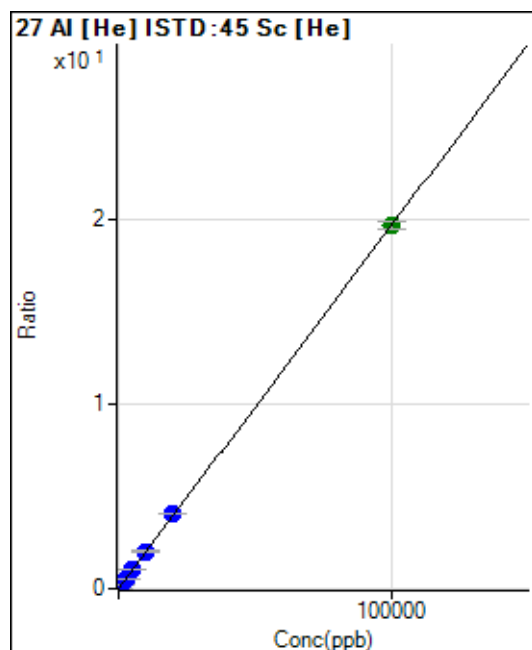
$$R = 0.9999$$

$$DL = 3.636$$

$$BEC = 7.924$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	299.97	0.0034	P	4.8
2	☐	20.000	22.471	682.01	0.0079	P	4.3
3	☐	1000.000	1057.797	18257.05	0.2114	P	0.4
4	☐	2500.000	2586.746	45771.89	0.5121	P	0.3
5	☐	5000.000	5230.386	89469.66	1.0320	P	0.7
6	☐	10000.000	10297.833	181194.11	2.0284	P	0.7
7	☐	20000.000	20556.311	366180.92	4.0457	P	0.6
8	☐	100000.00	99844.688	1753536.84	19.6372	A	2.0

$$y = 1.9664\text{E-}004 * x + 0.0034$$

$$R = 1.0000$$

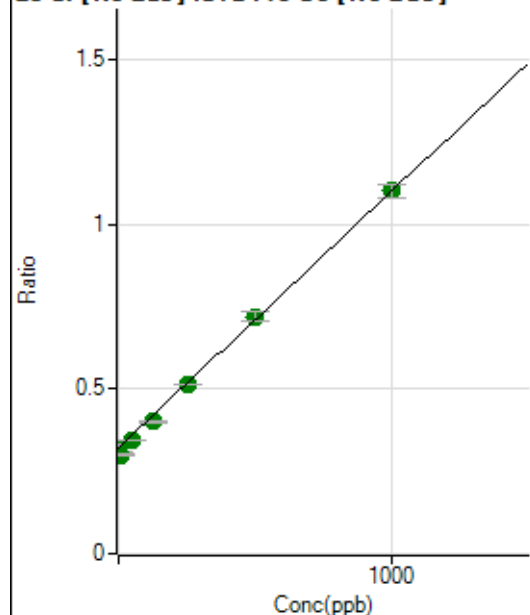
$$DL = 2.498$$

$$BEC = 17.48$$

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	867325.00	0.3224	A	7.1
2	☐	10.000	-27.860	881249.75	0.3006	A	2.8
3	☐	50.000	28.572	971026.65	0.3446	A	1.1
4	☐	125.000	100.166	1181424.92	0.4005	A	2.8
5	☐	250.000	243.988	1499212.89	0.5127	A	0.4
6	☐	500.000	510.874	2157469.62	0.7208	A	3.7
7	☐	1000.000	1000.620	3258896.69	1.1028	A	3.4
8	☐			1295116.49	0.4403	A	5.1

$$y = 7.7999\text{E-}004 * x + 0.3224$$

R = 0.9993

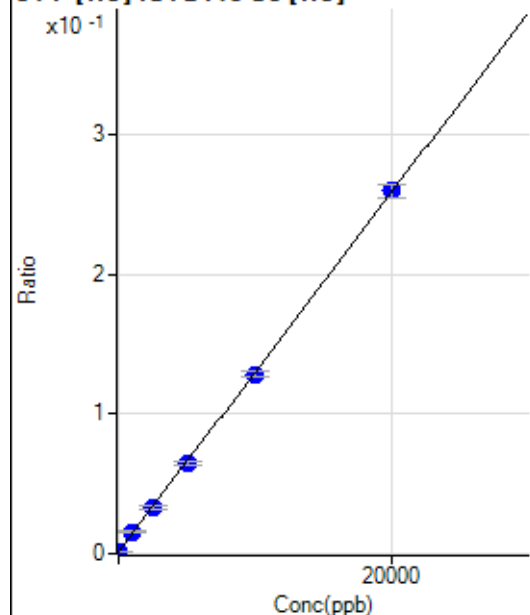
DL = 88.31

BEC = 413.3

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-9.867	113.89	0.0013	P	76.0
2	☐	0.000	9.867	136.12	0.0016	P	16.0
3	☐	1000.000	1083.403	1327.87	0.0154	P	7.8
4	☐	2500.000	2459.641	2955.94	0.0331	P	6.6
5	☐	5000.000	4929.749	5623.45	0.0649	P	2.7
6	☐	10000.000	9868.480	11468.71	0.1284	P	2.7
7	☐	20000.000	20084.197	23514.03	0.2598	P	3.8
8	☐			163.89	0.0018	P	24.7

$$y = 1.2866\text{E-}005 * x + 0.0014$$

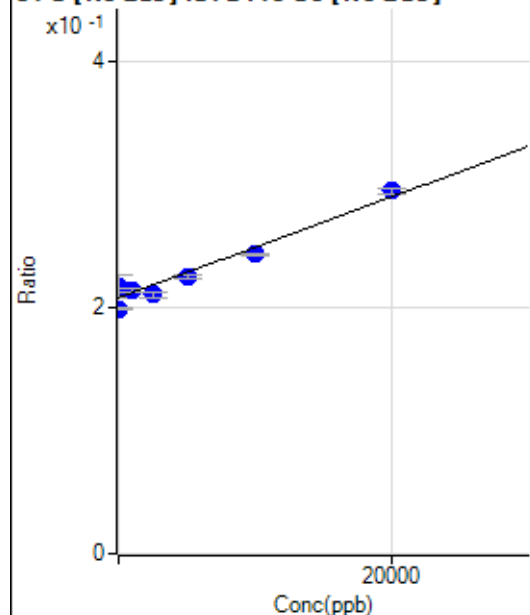
R = 0.9999

DL = 145.1

BEC = 111.5

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	2169.626	584181.19	0.2173	P	8.4
2	☐	0.000	-2169.626	584794.42	0.1995	P	1.3
3	☐	1000.000	1539.558	604831.66	0.2147	P	1.6
4	☐	2500.000	568.278	621609.75	0.2107	P	1.8
5	☐	5000.000	4172.495	659354.86	0.2255	P	1.3
6	☐	10000.000	8538.774	728658.64	0.2434	P	0.6
7	☐	20000.000	21151.977	872185.69	0.2952	P	1.7
8	☐			546210.12	0.1856	P	2.1

$$y = 4.1050\text{E-}006 * x + 0.2084$$

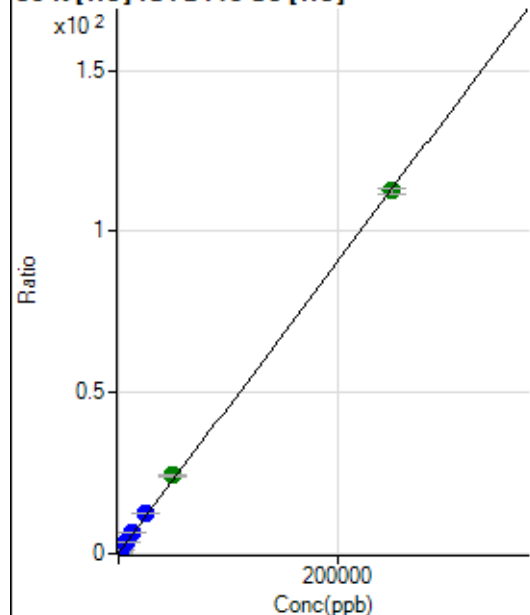
$$R = 0.9777$$

$$DL = 7637$$

$$BEC = 5.076\text{E}+04$$

Weight: <None>

Min Conc: 0

39 K [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19143.71	0.2194	P	3.0
2	☐	500.000	538.698	40159.26	0.4625	P	3.5
3	☐	2500.000	2797.395	127918.79	1.4817	P	1.3
4	☐	6250.000	6826.422	294936.82	3.2998	P	0.8
5	☐	12500.000	13730.721	556186.12	6.4153	P	1.0
6	☐	25000.000	26957.094	1106150.55	12.3836	P	1.1
7	☐	50000.000	53095.951	2188440.31	24.1786	A	0.8
8	☐	250000.00	249106.10	10057573.75	112.6271	A	1.9

$$y = 4.5124\text{E-}004 * x + 0.2194$$

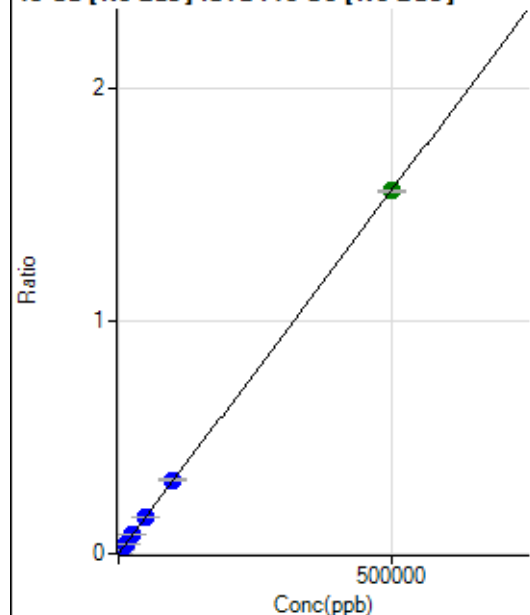
$$R = 0.9999$$

$$DL = 43.14$$

$$BEC = 486.2$$

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	260.39	0.0001	P	3.2
2	☐	500.000	480.954	4688.94	0.0016	P	0.2
3	☐	5000.000	5151.372	45610.82	0.0162	P	1.5
4	☐	12500.000	12581.358	116245.99	0.0394	P	1.4
5	☐	25000.000	25537.635	233566.86	0.0799	P	1.0
6	☐	50000.000	50509.149	472608.30	0.1579	P	1.5
7	☐	100000.00	101670.18	938748.22	0.3177	P	1.7
8	☐	500000.00	499584.63	4593250.38	1.5608	A	0.7

$$y = 3.1240\text{E-}006 * x + 9.6572\text{E-}005$$

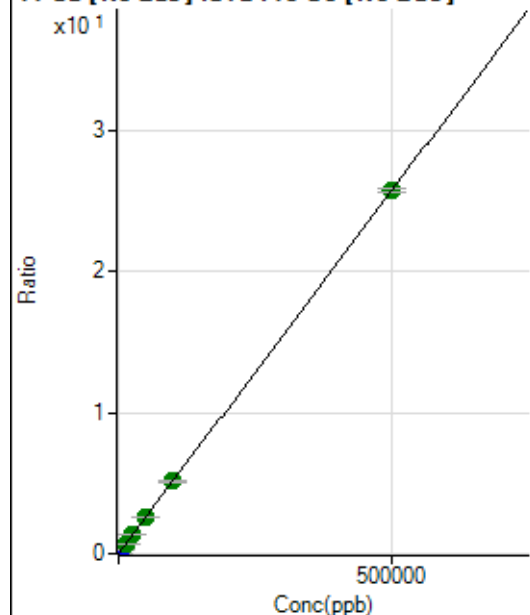
$$R = 1.0000$$

$$DL = 2.972$$

$$BEC = 30.91$$

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	14938.09	0.0056	P	8.2
2	☐	500.000	477.457	88278.22	0.0301	P	1.6
3	☐	5000.000	5186.147	767095.54	0.2723	P	1.4
4	☐	12500.000	12619.395	1931175.17	0.6546	A	1.5
5	☐	25000.000	25716.191	3883226.53	1.3281	A	2.5
6	☐	50000.000	49987.322	7712454.24	2.5764	A	0.4
7	☐	100000.00	99786.340	15179503.63	5.1376	A	1.6
8	☐	500000.00	500003.36	75690529.64	25.7208	A	1.0

$$y = 5.1430\text{E-}005 * x + 0.0056$$

$$R = 1.0000$$

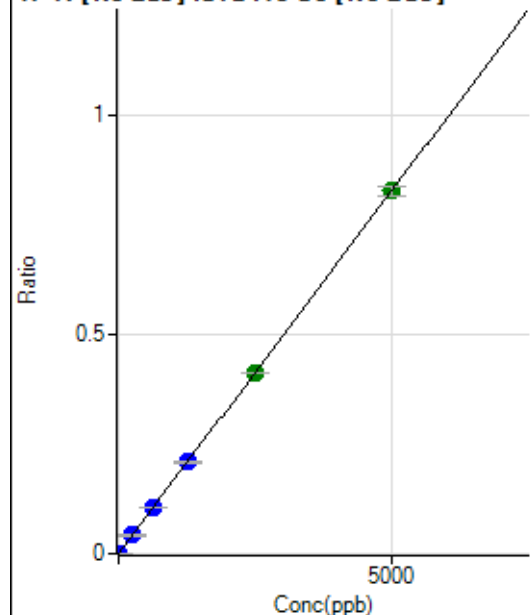
$$DL = 26.58$$

$$BEC = 108$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	322.23	0.0001	P	13.8
2	☐	5.000	4.499	2536.41	0.0009	P	4.9
3	☐	250.000	253.617	118655.63	0.0421	P	2.1
4	☐	625.000	624.960	305716.78	0.1036	P	0.7
5	☐	1250.000	1269.280	614969.33	0.2103	P	1.7
6	☐	2500.000	2485.846	1232673.38	0.4118	A	0.1
7	☐	5000.000	5002.082	2447945.21	0.8285	A	2.3
8	☐			1464.00	0.0005	P	13.0

$$y = 1.6560E-004 * x + 1.1972E-004$$

$$R = 1.0000$$

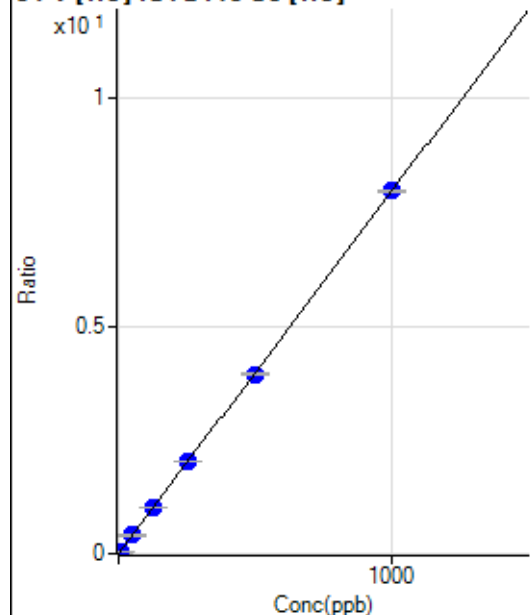
$$DL = 0.3002$$

$$BEC = 0.7229$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.55	0.0001	P	125.
2	☐	5.000	4.957	3428.23	0.0395	P	4.0
3	☐	50.000	50.498	34669.70	0.4016	P	1.5
4	☐	125.000	125.462	89168.76	0.9976	P	0.3
5	☐	250.000	253.182	174538.40	2.0131	P	0.3
6	☐	500.000	495.029	351585.22	3.9361	P	1.3
7	☐	1000.000	1001.607	720827.33	7.9639	P	0.7
8	☐			278.90	0.0031	P	23.1

$$y = 0.0080 * x + 6.3387E-005$$

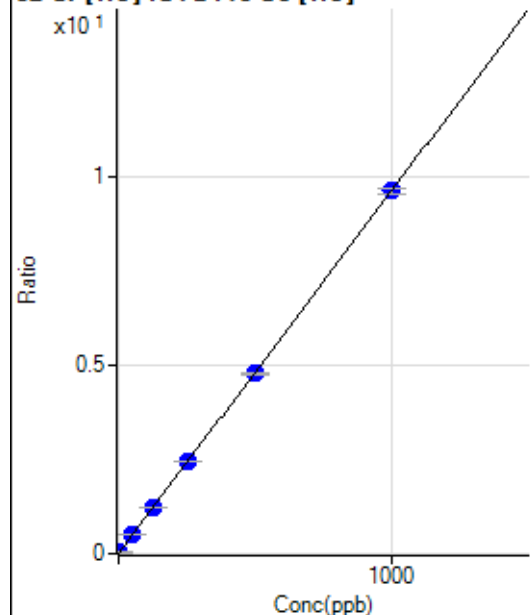
$$R = 1.0000$$

$$DL = 0.0299$$

$$BEC = 0.007972$$

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	567.79	0.0065	P	2.3
2	☐	2.000	1.977	2213.53	0.0255	P	6.4
3	☐	50.000	51.634	43396.81	0.5027	P	2.2
4	☐	125.000	125.259	108160.51	1.2102	P	0.8
5	☐	250.000	254.736	212794.57	2.4543	P	0.2
6	☐	500.000	497.095	427253.45	4.7832	P	1.1
7	☐	1000.000	1000.154	870422.37	9.6172	P	1.4
8	☐			4086.58	0.0457	P	3.9

$$y = 0.0096 * x + 0.0065$$

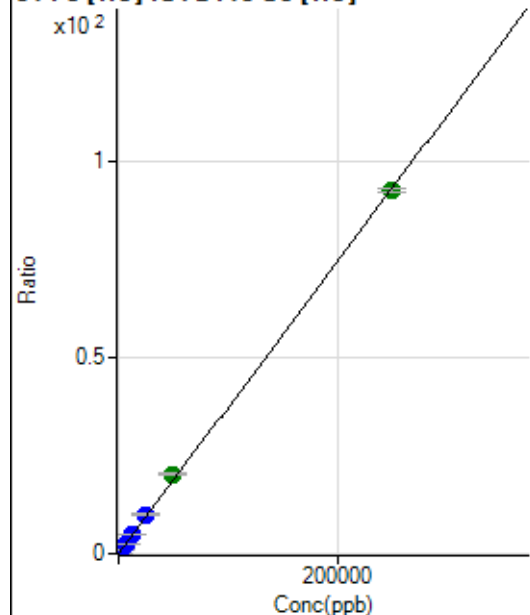
$$R = 1.0000$$

$$DL = 0.04678$$

$$BEC = 0.6771$$

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	253.71	0.0029	P	8.1
2	☐	50.000	51.764	1918.68	0.0221	P	5.1
3	☐	2500.000	2770.133	88906.22	1.0301	P	3.7
4	☐	6250.000	6740.364	223661.36	2.5023	P	0.4
5	☐	12500.000	13735.421	441856.54	5.0962	P	0.7
6	☐	25000.000	26872.105	890269.36	9.9674	P	1.8
7	☐	50000.000	54479.911	1828664.73	20.2047	A	1.4
8	☐	250000.00	248840.07	8240761.76	92.2759	A	1.2

$$y = 3.7081E-004 * x + 0.0029$$

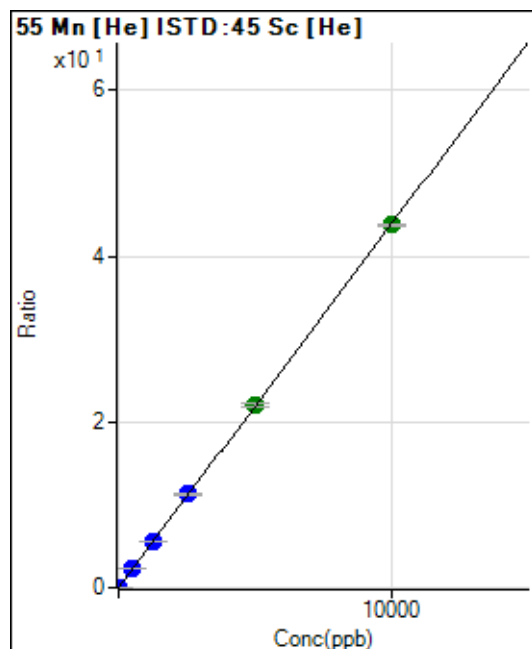
$$R = 0.9998$$

$$DL = 1.894$$

$$BEC = 7.836$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80.00	0.0009	P	3.6
2	☐	1.000	0.907	425.57	0.0049	P	12.9
3	☐	500.000	517.728	196215.81	2.2730	P	2.1
4	☐	1250.000	1256.905	493090.42	5.5169	P	0.9
5	☐	2500.000	2566.786	976640.47	11.2654	P	0.7
6	☐	5000.000	5009.924	1964020.82	21.9872	A	1.9
7	☐	10000.000	9976.592	3963015.39	43.7836	A	0.6
8	☐			3307.11	0.0370	P	3.6

$$y = 0.0044 * x + 9.1656E-004$$

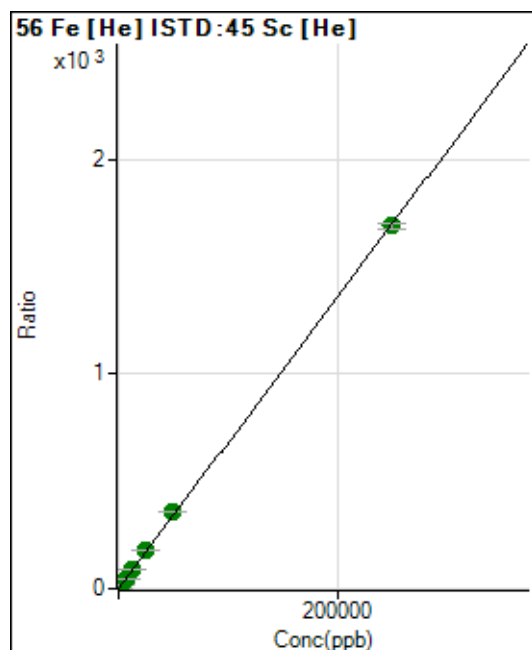
$$R = 1.0000$$

$$DL = 0.02236$$

$$BEC = 0.2089$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2013.14	0.0231	P	3.4
2	☐	50.000	53.126	33290.94	0.3834	P	3.4
3	☐	2500.000	2736.534	1604273.79	18.5832	A	1.6
4	☐	6250.000	6653.146	4035210.42	45.1470	A	1.2
5	☐	12500.000	13446.609	7909011.11	91.2225	A	0.6
6	☐	25000.000	26279.570	15923386.12	178.2600	A	1.5
7	☐	50000.000	52811.014	32421545.63	358.2052	A	0.7
8	☐	250000.00	249250.06	150961375.6	1,690.521	A	1.8

$$y = 0.0068 * x + 0.0231$$

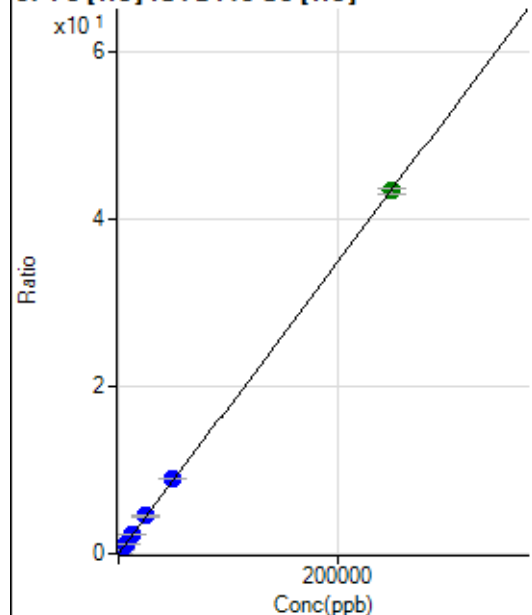
$$R = 0.9999$$

$$DL = 0.3432$$

$$BEC = 3.4$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0009	P	12.1
2	☐	50.000	50.333	835.22	0.0096	P	14.6
3	☐	2500.000	2659.565	39976.61	0.4631	P	2.6
4	☐	6250.000	6458.670	100408.63	1.1234	P	2.2
5	☐	12500.000	13245.945	199675.97	2.3031	P	0.5
6	☐	25000.000	25857.422	401497.69	4.4949	P	1.3
7	☐	50000.000	51762.941	814330.70	8.9973	P	1.2
8	☐	250000.00	249517.56	3872664.76	43.3673	A	1.7

$$y = 1.7380E-004 * x + 8.9103E-004$$

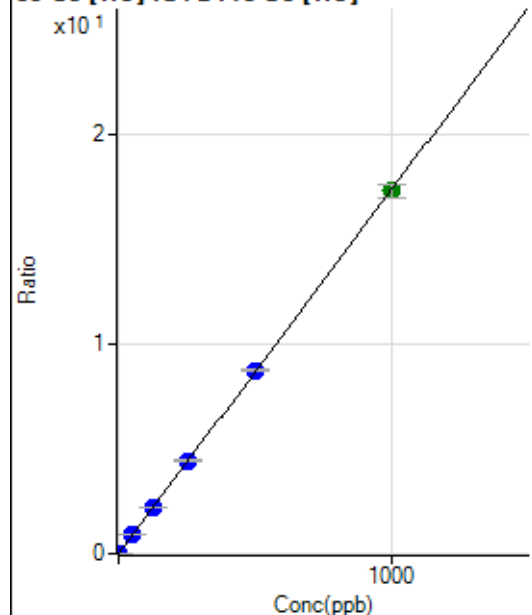
$$R = 1.0000$$

$$DL = 1.86$$

$$BEC = 5.127$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	48.89	0.0006	P	15.1
2	☐	1.000	1.063	1647.89	0.0190	P	6.1
3	☐	50.000	51.508	77129.56	0.8934	P	1.5
4	☐	125.000	126.427	195931.51	2.1921	P	0.6
5	☐	250.000	255.917	384629.48	4.4367	P	1.2
6	☐	500.000	502.809	778591.78	8.7165	P	1.2
7	☐	1000.000	996.863	1563765.53	17.2806	A	3.8
8	☐			2545.82	0.0285	P	2.7

$$y = 0.0173 * x + 5.6068E-004$$

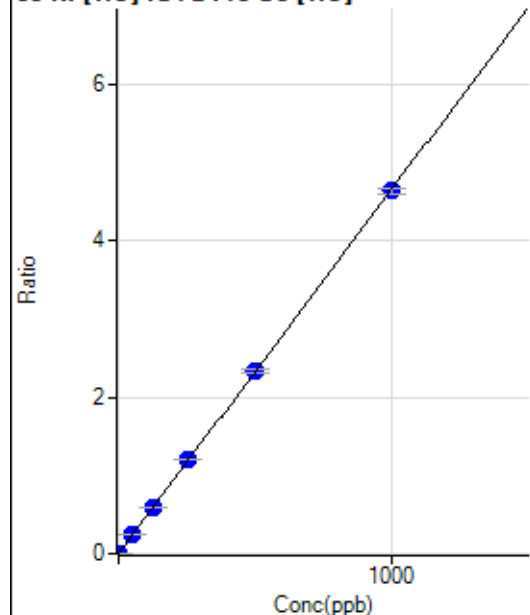
$$R = 1.0000$$

$$DL = 0.01465$$

$$BEC = 0.03235$$

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	175.56	0.0020	P	8.0
2	☐	1.000	0.989	574.46	0.0066	P	10.3
3	☐	50.000	52.423	21251.52	0.2462	P	2.3
4	☐	125.000	127.420	53225.78	0.5955	P	1.5
5	☐	250.000	258.117	104401.82	1.2042	P	0.6
6	☐	500.000	502.364	209167.22	2.3417	P	1.7
7	☐	1000.000	996.365	420181.06	4.6425	P	1.3
8	☐			1383.42	0.0155	P	4.7

$$y = 0.0047 * x + 0.0020$$

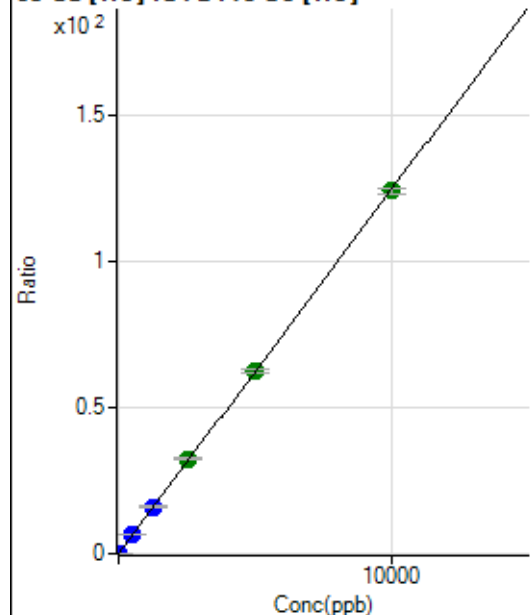
$$R = 1.0000$$

$$DL = 0.1036$$

$$BEC = 0.432$$

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	598.08	0.0069	P	10.0
2	☐	2.000	2.098	2862.19	0.0330	P	7.1
3	☐	500.000	528.494	568908.36	6.5900	P	1.6
4	☐	1250.000	1285.920	1432306.57	16.0249	P	1.2
5	☐	2500.000	2602.580	2811063.04	32.4258	A	1.1
6	☐	5000.000	5018.177	5584003.05	62.5156	A	1.3
7	☐	10000.000	9959.352	11228823.24	124.0651	A	1.3
8	☐			8638.77	0.0968	P	5.4

$$y = 0.0125 * x + 0.0069$$

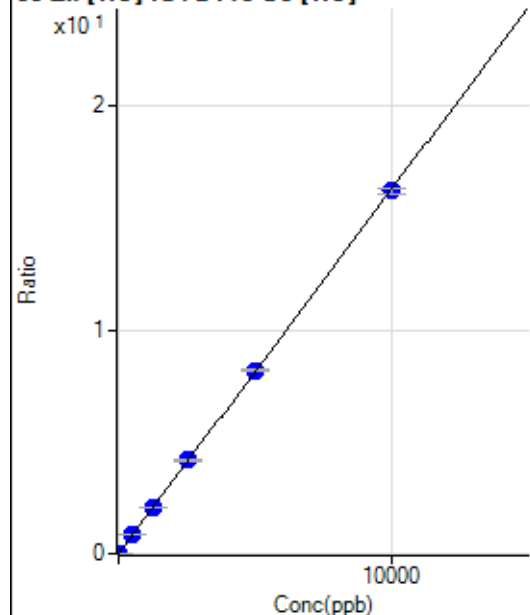
$$R = 0.9999$$

$$DL = 0.1652$$

$$BEC = 0.5505$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	121.11	0.0014	P	2.4
2	☐	2.000	2.003	403.34	0.0046	P	11.7
3	☐	500.000	523.843	73761.72	0.8544	P	1.4
4	☐	1250.000	1271.202	185136.20	2.0714	P	0.7
5	☐	2500.000	2574.544	363584.94	4.1937	P	1.2
6	☐	5000.000	5036.873	732765.54	8.2033	P	0.7
7	☐	10000.000	9959.085	1467863.97	16.2184	P	1.5
8	☐			1996.83	0.0224	P	5.9

$$y = 0.0016 * x + 0.0014$$

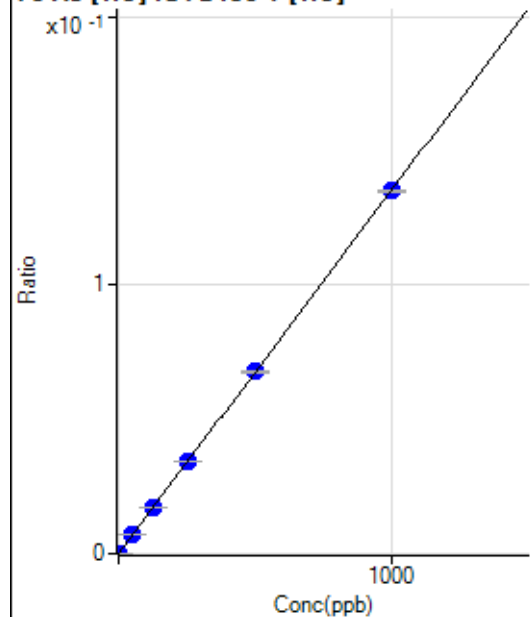
$$R = 1.0000$$

$$DL = 0.06254$$

$$BEC = 0.8524$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.00	0.0000	P	35.7
2	☐	1.000	0.969	105.34	0.0001	P	5.3
3	☐	50.000	50.427	5288.19	0.0068	P	0.5
4	☐	125.000	125.698	13494.79	0.0170	P	1.0
5	☐	250.000	253.530	26690.09	0.0343	P	0.7
6	☐	500.000	501.109	53698.68	0.0679	P	1.4
7	☐	1000.000	998.454	109319.34	0.1352	P	0.5
8	☐			74.34	0.0001	P	5.2

$$y = 1.3543E-004 * x + 6.4074E-006$$

$$R = 1.0000$$

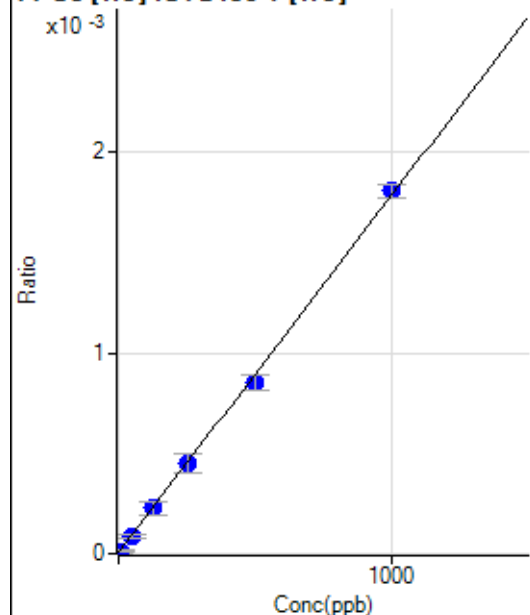
$$DL = 0.05065$$

$$BEC = 0.04731$$

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	4.44	0.0000	P	44.4
2	☐	5.000	4.119	10.00	0.0000	P	32.1
3	☐	50.000	46.858	68.89	0.0001	P	24.8
4	☐	125.000	124.728	180.00	0.0002	P	28.7
5	☐	250.000	247.761	347.79	0.0004	P	21.9
6	☐	500.000	476.083	674.47	0.0009	P	10.1
7	☐	1000.000	1012.714	1461.21	0.0018	P	3.6
8	☐			3.33	0.0000	P	99.0

$$y = 1.7791\text{E-}006 * x + 5.6972\text{E-}006$$

$$R = 0.9996$$

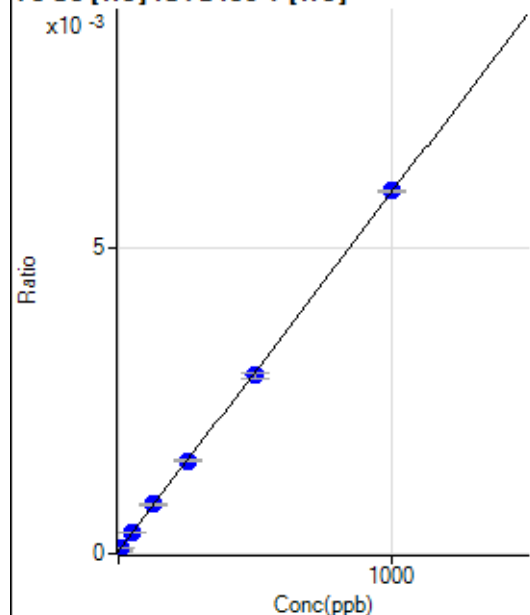
$$DL = 4.27$$

$$BEC = 3.202$$

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	35.33	0.0000	P	9.4
2	☐	5.000	6.277	62.68	0.0001	P	3.1
3	☐	50.000	51.894	270.03	0.0003	P	2.6
4	☐	125.000	130.009	639.08	0.0008	P	4.8
5	☐	250.000	251.314	1178.50	0.0015	P	3.2
6	☐	500.000	488.944	2301.76	0.0029	P	2.9
7	☐	1000.000	1004.472	4791.97	0.0059	P	0.7
8	☐			42.67	0.0001	P	8.9

$$y = 5.8563\text{E-}006 * x + 4.5201\text{E-}005$$

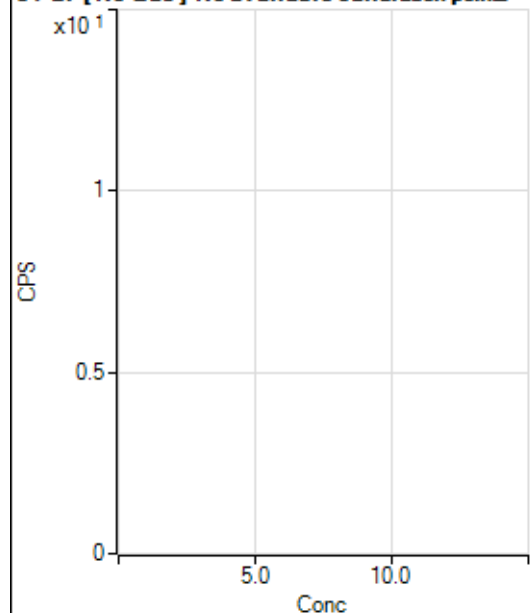
$$R = 0.9999$$

$$DL = 2.183$$

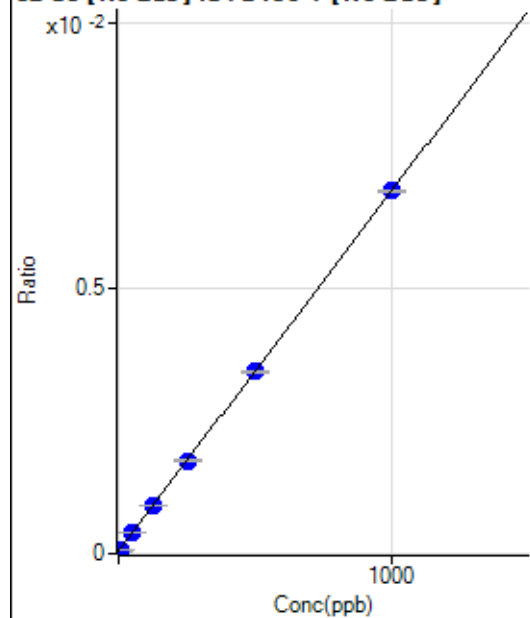
$$BEC = 7.718$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3197.02		P	9.4
2	☐			3347.20		P	2.8
3	☐			3213.70		P	5.1
4	☐			3270.42		P	4.4
5	☐			3160.29		P	3.5
6	☐			3290.43		P	7.1
7	☐			3564.15		P	5.0
8	☐			3771.09		P	7.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	358.27	0.0001	P	5.6
2	☐	5.000	5.022	648.21	0.0001	P	8.4
3	☐	50.000	52.862	2978.94	0.0004	P	0.8
4	☐	125.000	125.760	6871.30	0.0009	P	0.7
5	☐	250.000	250.597	13302.87	0.0017	P	1.4
6	☐	500.000	498.370	26575.24	0.0034	P	1.4
7	☐	1000.000	1000.428	52406.46	0.0068	P	0.5
8	☐			353.58	0.0000	P	14.8

$$y = 6.7785E-006 * x + 5.1039E-005$$

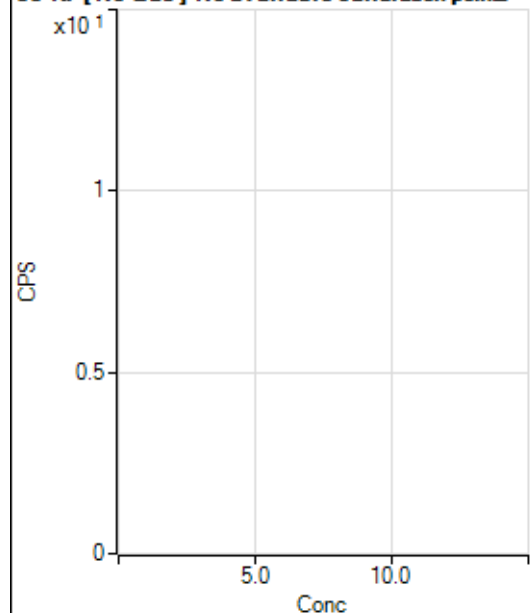
$$R = 1.0000$$

$$DL = 1.269$$

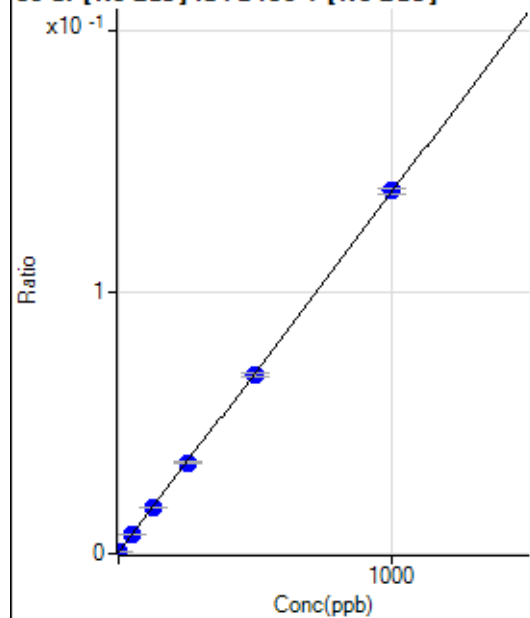
$$BEC = 7.53$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1787.91		P	3.7
2	☐			1805.69		P	1.9
3	☐			1782.35		P	1.4
4	☐			1760.13		P	7.3
5	☐			1865.70		P	5.2
6	☐			1702.35		P	4.7
7	☐			1819.03		P	1.6
8	☐			1832.36		P	5.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2783.70	0.0004	P	4.9
2	☐	1.000	0.933	4014.58	0.0005	P	2.8
3	☐	50.000	50.696	53689.90	0.0074	P	0.7
4	☐	125.000	125.064	133969.03	0.0176	P	1.9
5	☐	250.000	250.520	265264.20	0.0349	P	1.6
6	☐	500.000	492.109	528124.44	0.0682	P	2.0
7	☐	1000.000	1003.773	1063042.24	0.1386	P	1.6
8	☐			8605.65	0.0011	P	5.4

$$y = 1.3768E-004 * x + 3.9858E-004$$

$$R = 1.0000$$

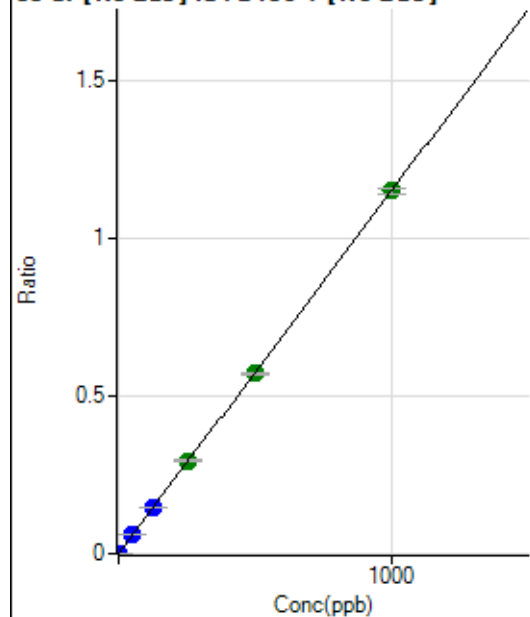
$$DL = 0.4296$$

$$BEC = 2.895$$

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	119.45	0.0000	P	26.5
2	☐	1.000	0.995	8836.33	0.0012	P	3.7
3	☐	50.000	52.236	436842.51	0.0600	P	0.6
4	☐	125.000	127.484	1113965.05	0.1465	P	1.6
5	☐	250.000	255.700	2233763.29	0.2938	A	1.9
6	☐	500.000	496.354	4419628.57	0.5703	A	1.6
7	☐	1000.000	999.975	8811914.95	1.1489	A	1.8
8	☐			51967.04	0.0068	P	2.9

$$y = 0.0011 * x + 1.7292E-005$$

$$R = 1.0000$$

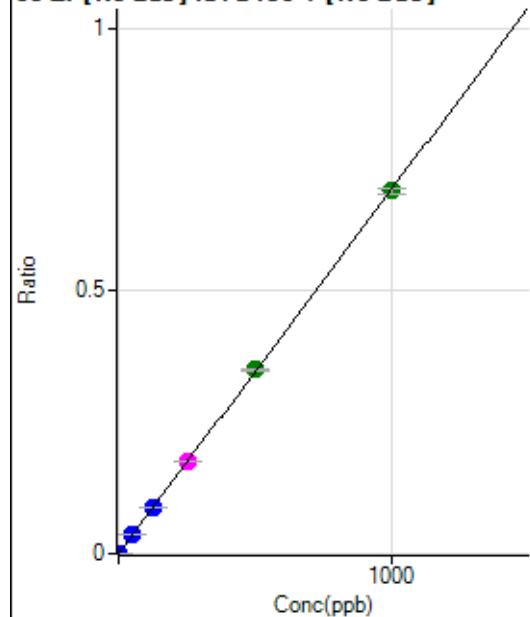
$$DL = 0.01197$$

$$BEC = 0.01505$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	305.57	0.0000	P	9.0
2	☐	1.000	0.928	5234.47	0.0007	P	5.9
3	☐	50.000	51.637	260686.41	0.0358	P	1.0
4	☐	125.000	128.417	676995.91	0.0890	P	0.7
5	☐	250.000	253.927	1338114.65	0.1760	M	1.0
6	☐	500.000	504.449	2709272.80	0.3496	A	1.2
7	☐	1000.000	996.285	5294849.90	0.6904	A	1.9
8	☐			3795.07	0.0005	P	12.2

$$y = 6.9290E-004 * x + 4.3873E-005$$

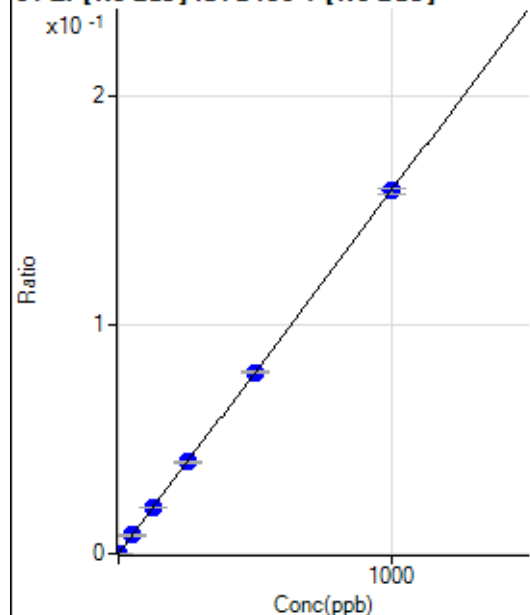
$$R = 1.0000$$

$$DL = 0.01704$$

$$BEC = 0.06332$$

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	55.56	0.0000	P	46.8
2	☐	1.000	0.935	1188.97	0.0002	P	5.8
3	☐	50.000	50.379	58230.46	0.0080	P	1.6
4	☐	125.000	125.370	151346.42	0.0199	P	0.6
5	☐	250.000	251.647	303665.80	0.0399	P	0.6
6	☐	500.000	500.350	615368.90	0.0794	P	1.1
7	☐	1000.000	999.348	1216320.06	0.1586	P	1.7
8	☐			811.16	0.0001	P	9.1

$$y = 1.5868\text{E-}004 * x + 7.7236\text{E-}006$$

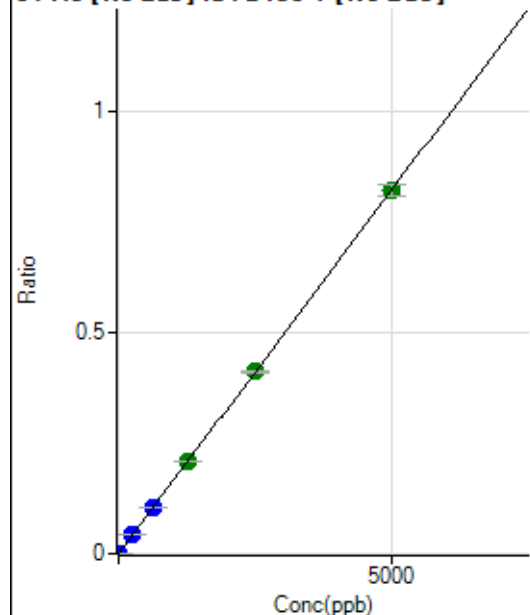
$$R = 1.0000$$

$$DL = 0.0683$$

$$BEC = 0.04867$$

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	111.11	0.0000	P	58.4
2	☐	5.000	4.830	6168.20	0.0008	P	3.8
3	☐	250.000	261.790	313446.36	0.0431	P	1.3
4	☐	625.000	641.413	802463.77	0.1055	P	1.1
5	☐	1250.000	1265.618	1582856.70	0.2082	A	1.0
6	☐	2500.000	2504.601	3192799.97	0.4120	A	1.1
7	☐	5000.000	4991.154	6296148.01	0.8210	A	3.0
8	☐			4250.76	0.0006	P	9.0

$$y = 1.6448\text{E-}004 * x + 1.5322\text{E-}005$$

$$R = 1.0000$$

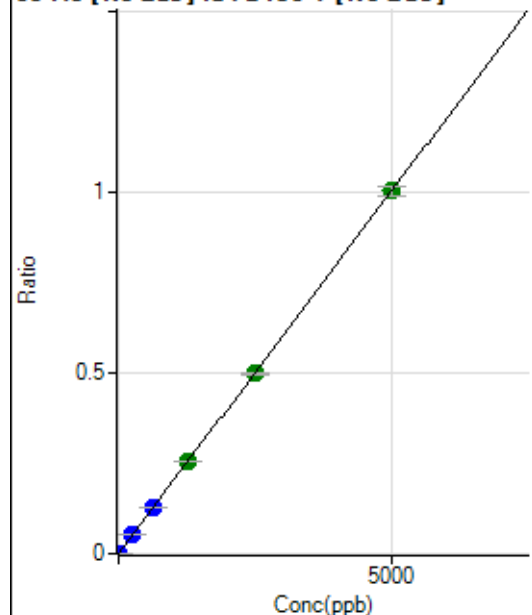
$$DL = 0.1632$$

$$BEC = 0.09315$$

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	16.66	0.0000	P	81.9
2	☐	5.000	4.720	7221.55	0.0009	P	3.3
3	☐	250.000	261.090	380801.70	0.0523	P	0.5
4	☐	625.000	636.137	969632.43	0.1275	P	0.8
5	☐	1250.000	1274.098	1941610.22	0.2554	A	0.1
6	☐	2500.000	2479.491	3851158.59	0.4970	A	1.8
7	☐	5000.000	5002.284	7689281.42	1.0026	A	2.3
8	☐			5077.15	0.0007	P	8.0

$$y = 2.0043\text{E-}004 * x + 2.3296\text{E-}006$$

$$R = 1.0000$$

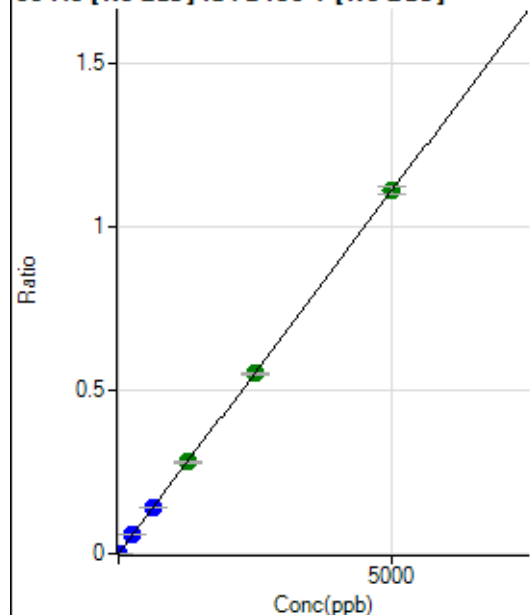
$$DL = 0.02856$$

$$BEC = 0.01162$$

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	75.00	0.0000	P	69.3
2	☐	5.000	4.962	8463.91	0.0011	P	6.1
3	☐	250.000	258.116	416534.64	0.0572	P	0.7
4	☐	625.000	638.249	1076263.15	0.1415	P	1.0
5	☐	1250.000	1262.284	2128180.47	0.2799	A	1.3
6	☐	2500.000	2483.565	4267729.22	0.5507	A	1.1
7	☐	5000.000	5003.085	8508108.26	1.1093	A	2.1
8	☐			5932.01	0.0008	P	6.9

$$y = 2.2173\text{E-}004 * x + 1.1196\text{E-}005$$

$$R = 1.0000$$

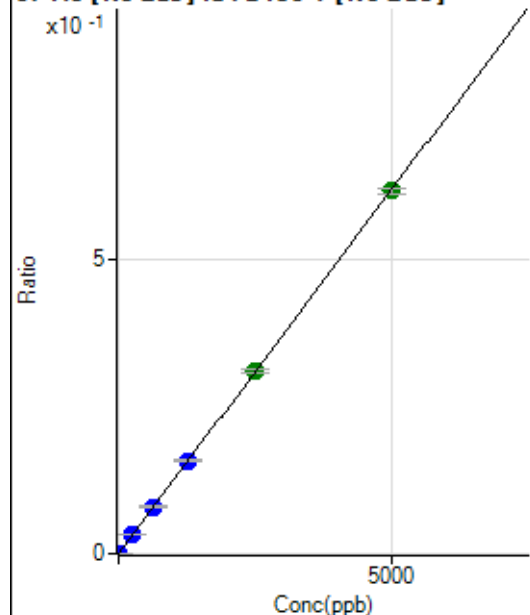
$$DL = 0.105$$

$$BEC = 0.0505$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.
2	☐	5.000	4.974	4684.24	0.0006	P	2.7
3	☐	250.000	260.414	234003.00	0.0322	P	0.5
4	☐	625.000	641.761	602609.75	0.0792	P	1.7
5	☐	1250.000	1279.115	1200869.98	0.1579	P	1.2
6	☐	2500.000	2512.636	2404448.69	0.3103	A	1.3
7	☐	5000.000	4983.788	4720021.90	0.6154	A	1.9
8	☐			2955.96	0.0004	P	12.2

$$y = 1.2348\text{E-}004 * x + 7.5505\text{E-}007$$

$$R = 1.0000$$

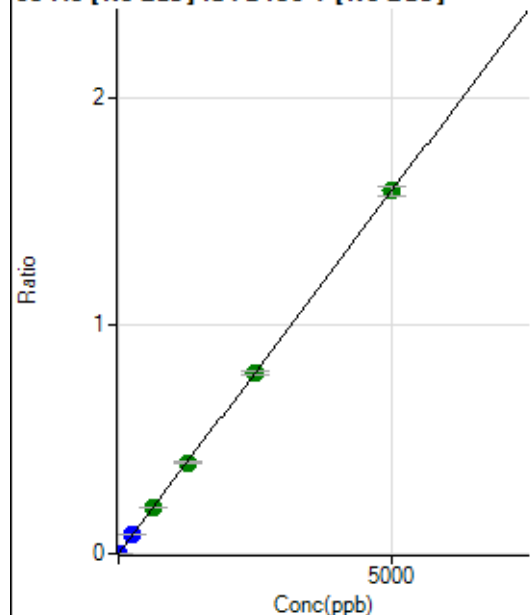
$$DL = 0.03177$$

$$BEC = 0.006115$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	87.6
2	☐	5.000	5.144	12467.03	0.0016	P	1.2
3	☐	250.000	261.320	603893.25	0.0830	P	0.7
4	☐	625.000	633.742	1530453.79	0.2013	A	1.4
5	☐	1250.000	1257.714	3036712.74	0.3994	A	1.2
6	☐	2500.000	2485.210	6116039.55	0.7892	A	1.7
7	☐	5000.000	5003.807	12186927.35	1.5891	A	2.7
8	☐			7491.11	0.0010	P	11.2

$$y = 3.1757\text{E-}004 * x + 3.3559\text{E-}006$$

$$R = 1.0000$$

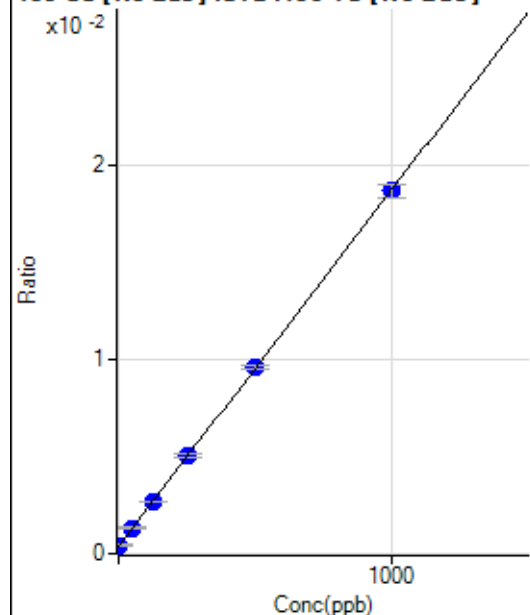
$$DL = 0.02778$$

$$BEC = 0.01057$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1447.33	0.0004	P	11.2
2	☐	1.000	3.233	1819.62	0.0004	P	13.1
3	☐	50.000	51.014	5292.83	0.0013	P	4.0
4	☐	125.000	126.341	11332.71	0.0027	P	1.7
5	☐	250.000	251.977	21191.82	0.0050	P	3.9
6	☐	500.000	503.105	41170.25	0.0096	P	1.6
7	☐	1000.000	997.733	78789.18	0.0186	P	3.8
8	☐			1816.85	0.0004	P	2.6

$$y = 1.8302\text{E-}005 * x + 3.7988\text{E-}004$$

$$R = 1.0000$$

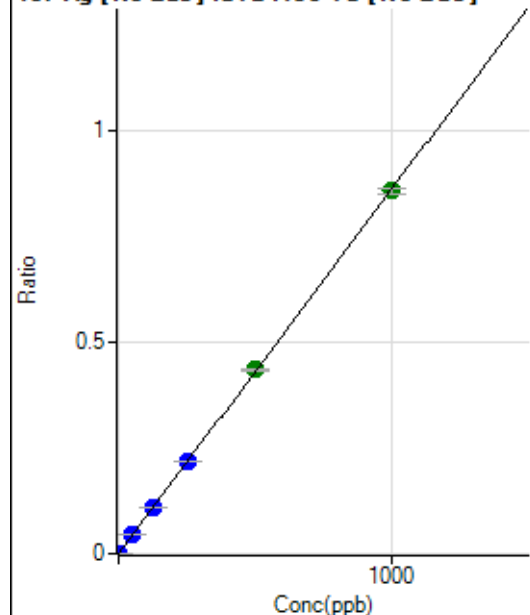
$$DL = 6.989$$

$$BEC = 20.76$$

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	58.34	0.0000	P	36.2
2	☐	1.000	0.972	3533.87	0.0009	P	6.5
3	☐	50.000	52.253	181556.04	0.0450	P	0.3
4	☐	125.000	128.447	466067.84	0.1107	P	0.5
5	☐	250.000	253.019	925958.42	0.2181	P	0.6
6	☐	500.000	505.477	1870757.81	0.4357	A	0.8
7	☐	1000.000	995.963	3628649.78	0.8584	A	1.9
8	☐			2514.18	0.0006	P	1.3

$$y = 8.6187\text{E-}004 * x + 1.4950\text{E-}005$$

$$R = 1.0000$$

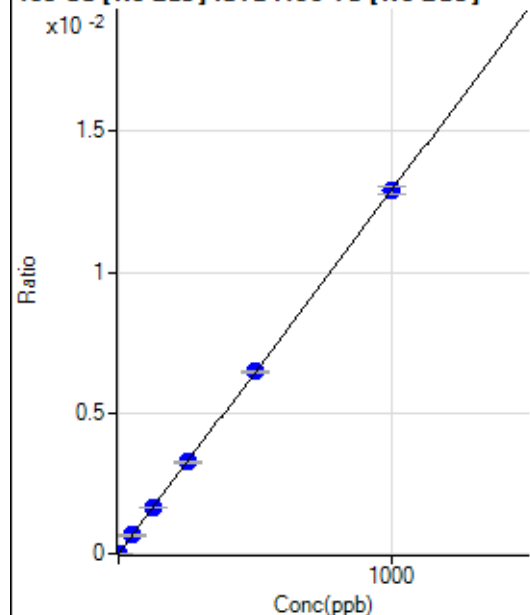
$$DL = 0.01884$$

$$BEC = 0.01735$$

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	13.89	0.0000	P	27.8
2	☐	1.000	1.142	76.39	0.0000	P	22.5
3	☐	50.000	50.109	2619.72	0.0006	P	1.0
4	☐	125.000	125.963	6854.57	0.0016	P	1.2
5	☐	250.000	251.315	13777.87	0.0032	P	2.8
6	☐	500.000	501.075	27766.91	0.0065	P	1.0
7	☐	1000.000	999.008	54483.39	0.0129	P	2.1
8	☐			90.28	0.0000	P	23.9

$$y = 1.2898E-005 * x + 3.6926E-006$$

$$R = 1.0000$$

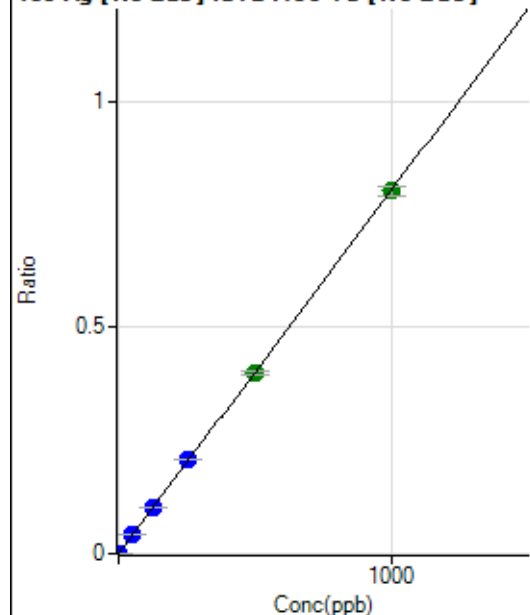
$$DL = 0.2391$$

$$BEC = 0.2863$$

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	36.11	0.0000	P	18.7
2	☐	1.000	1.015	3419.97	0.0008	P	2.0
3	☐	50.000	52.377	169680.49	0.0421	P	0.9
4	☐	125.000	127.981	433009.99	0.1029	P	0.8
5	☐	250.000	257.855	879925.90	0.2072	P	0.8
6	☐	500.000	498.977	1721922.59	0.4010	A	1.8
7	☐	1000.000	998.056	3390762.29	0.8021	A	2.4
8	☐			2211.37	0.0005	P	14.8

$$y = 8.0368E-004 * x + 9.3268E-006$$

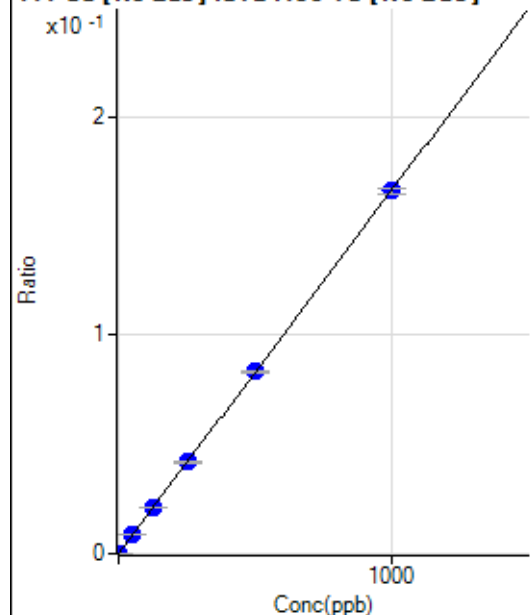
$$R = 1.0000$$

$$DL = 0.006498$$

$$BEC = 0.01161$$

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	19.74	0.0000	P	52.7
2	☐	1.000	1.154	816.78	0.0002	P	6.4
3	☐	50.000	51.716	34690.76	0.0086	P	1.2
4	☐	125.000	126.690	88735.07	0.0211	P	1.1
5	☐	250.000	251.707	177806.38	0.0419	P	0.5
6	☐	500.000	500.445	357492.17	0.0833	P	0.6
7	☐	1000.000	999.053	702546.49	0.1662	P	1.8
8	☐			522.30	0.0001	P	10.6

$$y = 1.6635E-004 * x + 5.1511E-006$$

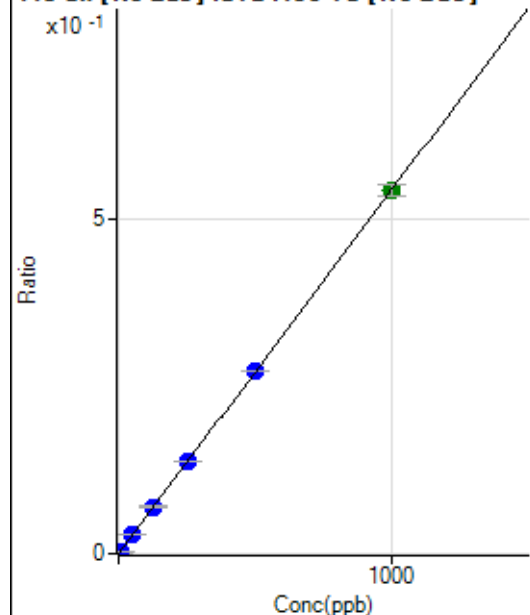
$$R = 1.0000$$

$$DL = 0.04899$$

$$BEC = 0.03097$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	177.79	0.0000	P	13.5
2	☐	5.000	4.964	11363.37	0.0027	P	2.9
3	☐	50.000	52.256	114552.27	0.0284	P	0.5
4	☐	125.000	128.054	292921.94	0.0696	P	2.4
5	☐	250.000	253.039	583644.33	0.1375	P	0.2
6	☐	500.000	501.764	1170261.55	0.2725	P	0.4
7	☐	1000.000	997.864	2290718.04	0.5419	A	3.1
8	☐			1883.52	0.0004	P	10.8

$$y = 5.4305E-004 * x + 4.6673E-005$$

$$R = 1.0000$$

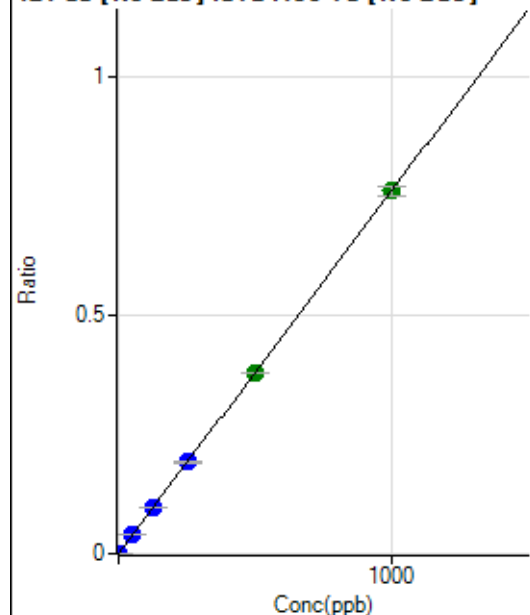
$$DL = 0.03489$$

$$BEC = 0.08595$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	42.6
2	☐	2.000	1.976	6254.38	0.0015	P	5.2
3	☐	50.000	51.111	156634.77	0.0389	P	0.5
4	☐	125.000	126.979	406401.70	0.0965	P	0.5
5	☐	250.000	252.086	813788.21	0.1917	P	0.7
6	☐	500.000	498.133	1626269.33	0.3787	A	0.3
7	☐	1000.000	1000.109	3214114.68	0.7604	A	2.5
8	☐			3503.34	0.0008	P	10.4

$$y = 7.6027E-004 * x + 6.6993E-006$$

$$R = 1.0000$$

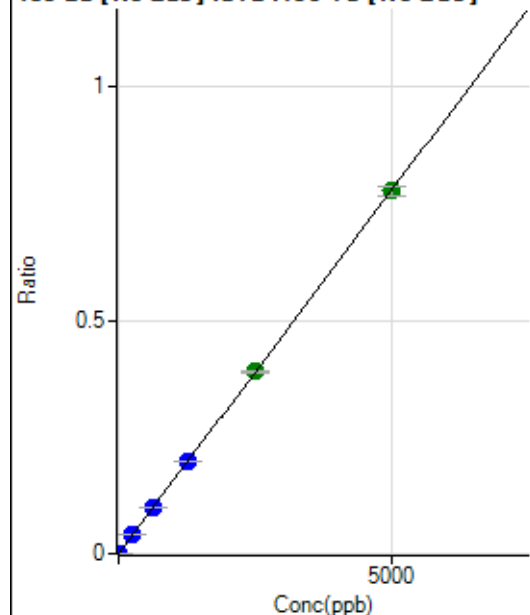
$$DL = 0.01125$$

$$BEC = 0.008812$$

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	16.66	0.0000	P	81.2
2	☐	10.000	9.458	6112.65	0.0015	P	3.5
3	☐	250.000	257.489	161426.40	0.0401	P	1.4
4	☐	625.000	631.512	413485.64	0.0982	P	1.3
5	☐	1250.000	1262.959	834066.67	0.1964	P	0.4
6	☐	2500.000	2503.279	1671831.61	0.3894	A	1.2
7	☐	5000.000	4993.934	3283326.40	0.7767	A	2.5
8	☐			2047.45	0.0005	P	13.2

$$y = 1.5554E-004 * x + 4.2449E-006$$

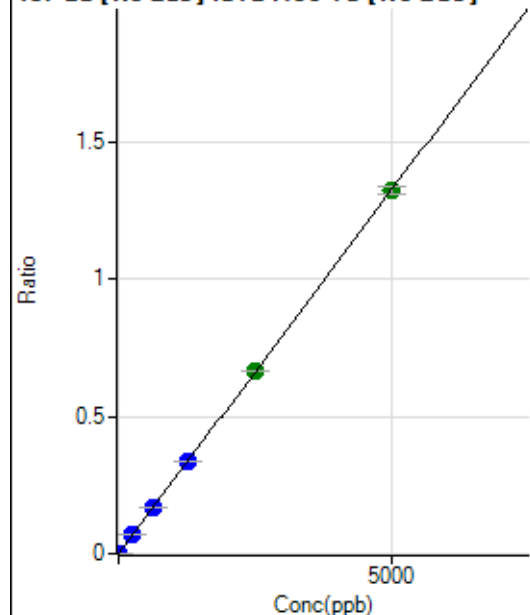
$$R = 1.0000$$

$$DL = 0.0665$$

$$BEC = 0.02729$$

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	41.67	0.0000	P	12.4
2	☐	10.000	10.042	11082.69	0.0027	P	2.6
3	☐	250.000	260.622	278676.27	0.0691	P	1.2
4	☐	625.000	633.781	707789.42	0.1681	P	0.6
5	☐	1250.000	1270.947	1431586.42	0.3372	P	1.0
6	☐	2500.000	2508.603	2857712.74	0.6655	A	0.4
7	☐	5000.000	4988.833	5594543.92	1.3235	A	2.2
8	☐			3353.28	0.0008	P	5.7

$$y = 2.6528E-004 * x + 1.0824E-005$$

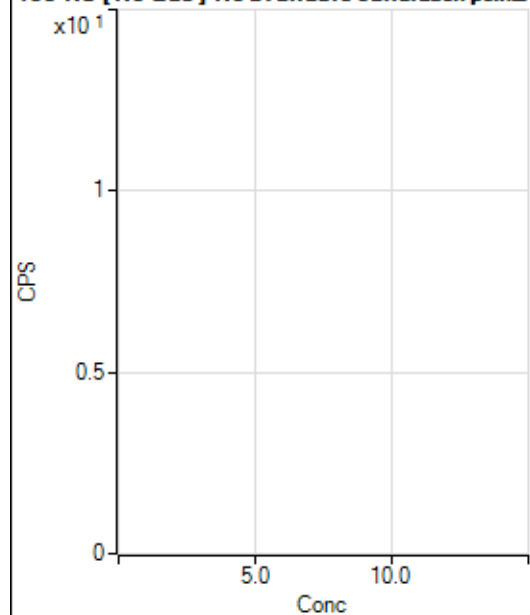
$$R = 1.0000$$

$$DL = 0.01519$$

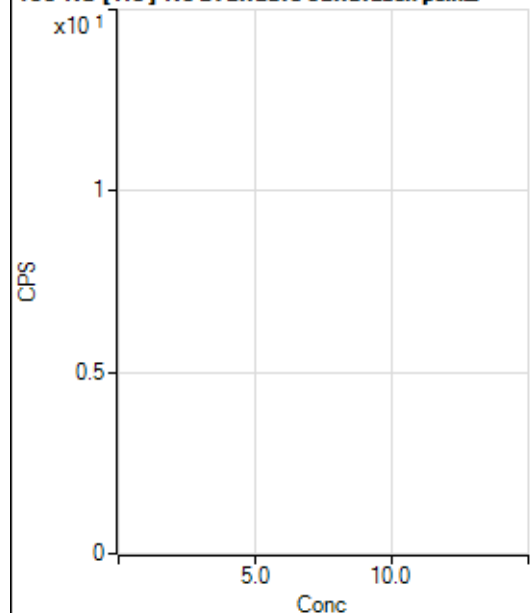
$$BEC = 0.0408$$

Weight: <None>

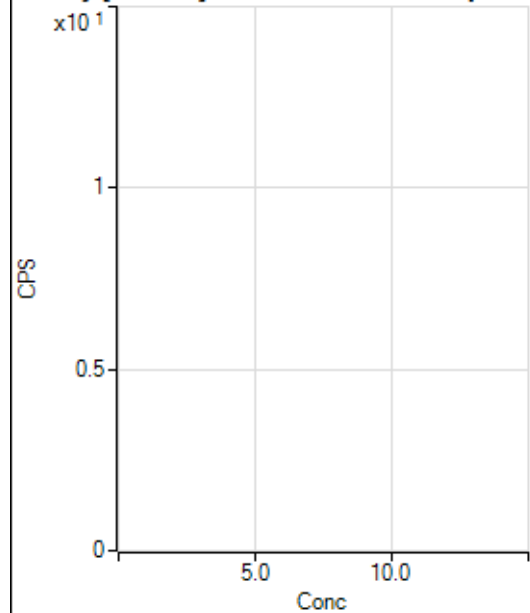
Min Conc: 0

150 Nd [No Gas] No available calibration points

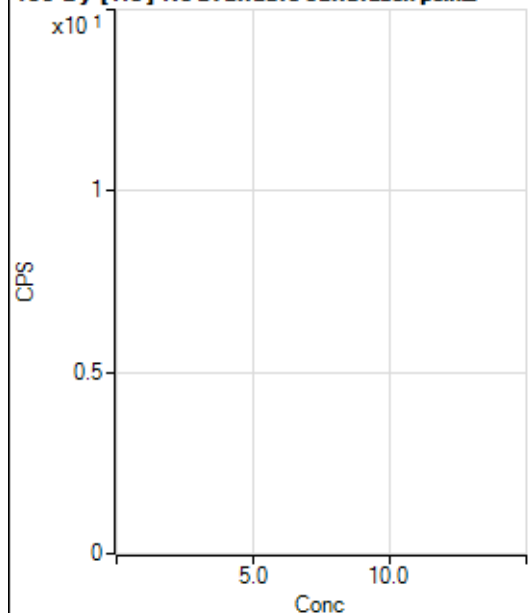
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	173.
2	☐			11.11		P	34.6
3	☐			24.44		P	56.8
4	☐			26.67		P	25.0
5	☐			46.67		P	49.5
6	☐			80.00		P	8.3
7	☐			173.34		P	13.9
8	☐			31.11		P	32.7

150 Nd [He] No available calibration points

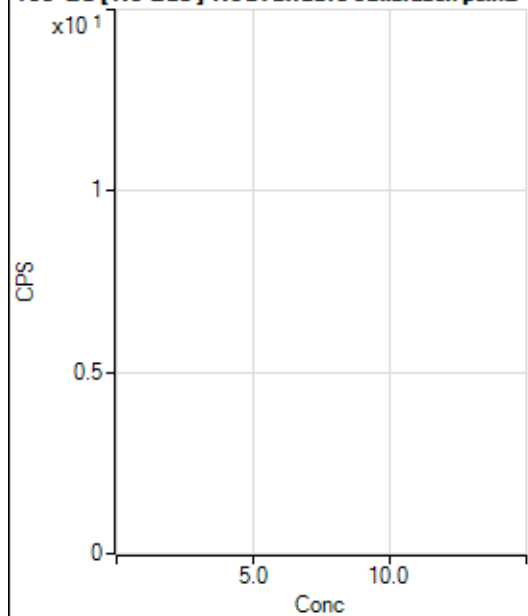
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			4.44		P	114.
6	☐			10.00		P	66.7
7	☐			14.44		P	35.3
8	☐			2.22		P	173.

156 Dy [No Gas] No available calibration points

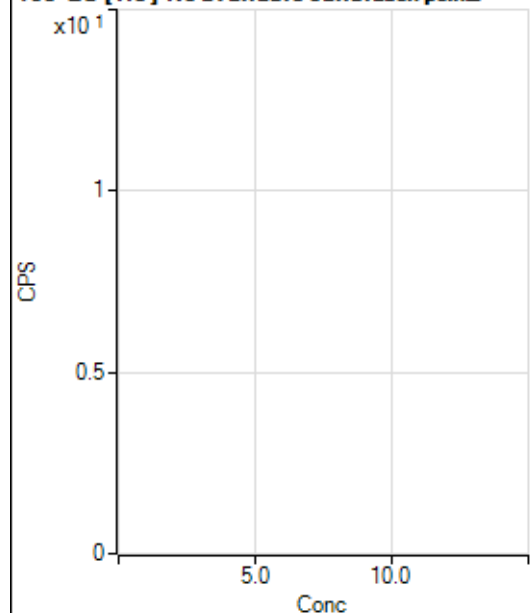
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.66		P	86.6
2	☐			11.11		P	114.
3	☐			11.11		P	114.
4	☐			27.78		P	69.3
5	☐			27.78		P	45.8
6	☐			41.67		P	60.0
7	☐			105.56		P	37.3
8	☐			677.81		P	6.8

156 Dy [He] No available calibration points

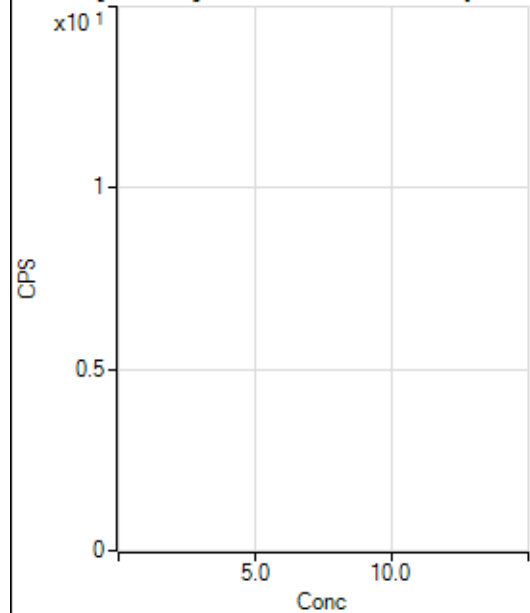
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			4.44		P	43.4
3	☐			2.22		P	86.6
4	☐			5.55		P	124.
5	☐			13.33		P	66.2
6	☐			21.11		P	50.8
7	☐			34.44		P	40.3
8	☐			432.24		P	11.2

160 Gd [No Gas] Noavailable calibration poin_

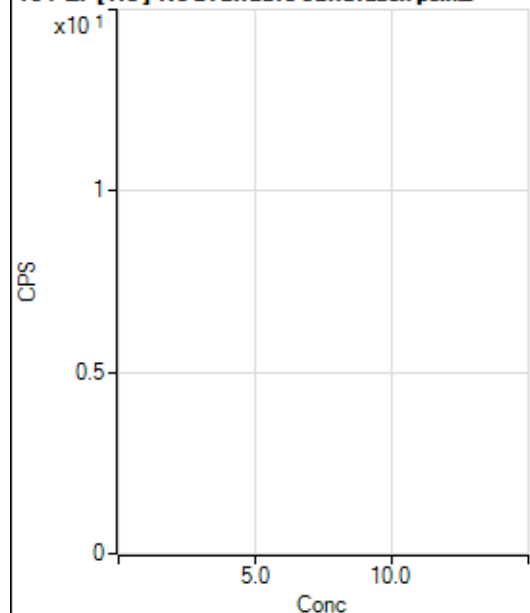
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	78.1
2	☐			36.11		P	13.3
3	☐			33.33		P	25.0
4	☐			41.67		P	0.0
5	☐			30.56		P	56.8
6	☐			61.11		P	20.8
7	☐			72.22		P	43.7
8	☐			694.48		P	10.9

160 Gd [He] No available calibration points

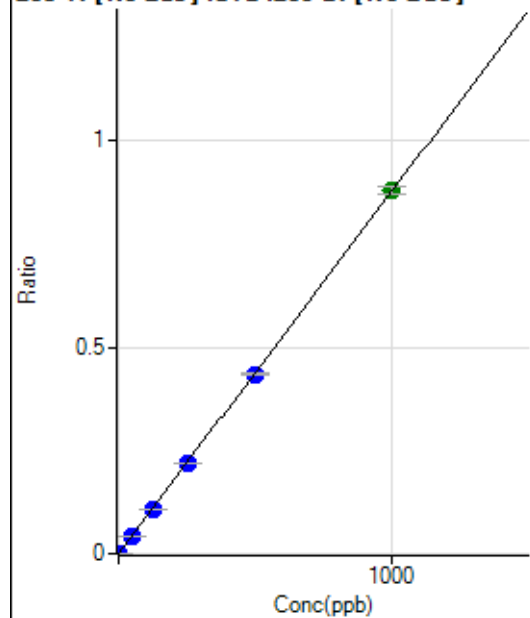
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐			6.67		P	50.0
3	☐			8.89		P	43.3
4	☐			18.89		P	27.0
5	☐			17.78		P	28.6
6	☐			31.11		P	55.0
7	☐			52.22		P	16.1
8	☐			481.12		P	5.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	56.8
2	☐			11.11		P	43.3
3	☐			22.22		P	43.3
4	☐			27.78		P	45.8
5	☐			19.45		P	24.7
6	☐			61.11		P	28.4
7	☐			38.89		P	61.9
8	☐			111.11		P	28.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			10.00		P	0.0
3	☐			14.44		P	35.3
4	☐			14.45		P	26.7
5	☐			12.22		P	41.7
6	☐			11.11		P	45.8
7	☐			17.78		P	21.7
8	☐			56.67		P	51.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.01	0.0001	P	33.2
2	☐	1.000	1.032	2064.12	0.0010	P	7.0
3	☐	50.000	49.441	91301.01	0.0434	P	1.1
4	☐	125.000	122.990	238391.71	0.1079	P	2.2
5	☐	250.000	249.819	475565.25	0.2192	P	1.6
6	☐	500.000	496.332	963345.58	0.4355	P	0.7
7	☐	1000.000	1002.159	1862182.14	0.8792	A	2.2
8	☐			1830.74	0.0009	P	8.3

$$y = 8.7725E-004 * x + 5.1646E-005$$

$$R = 1.0000$$

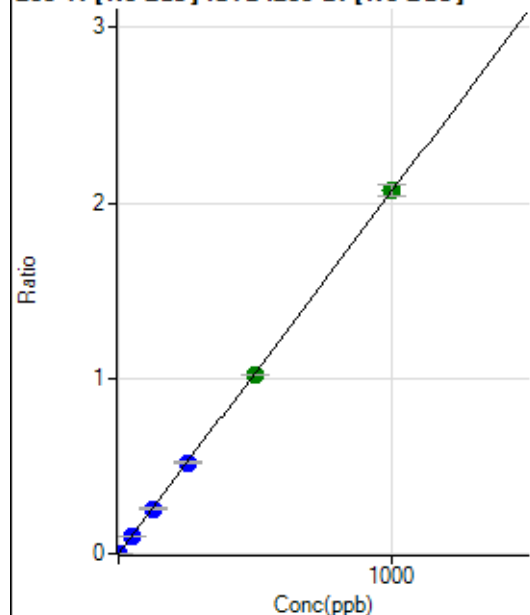
$$DL = 0.05868$$

$$BEC = 0.05887$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	252.79	0.0001	P	13.0
2	☐	1.000	0.933	4428.65	0.0021	P	2.5
3	☐	50.000	49.873	216652.42	0.1030	P	0.6
4	☐	125.000	123.149	561416.32	0.2542	P	3.3
5	☐	250.000	252.164	1129143.00	0.5205	P	1.6
6	☐	500.000	494.555	2257816.91	1.0206	A	0.4
7	☐	1000.000	1002.419	4380963.16	2.0686	A	3.2
8	☐			4306.46	0.0021	P	9.2

$$y = 0.0021 * x + 1.2877E-004$$

$$R = 1.0000$$

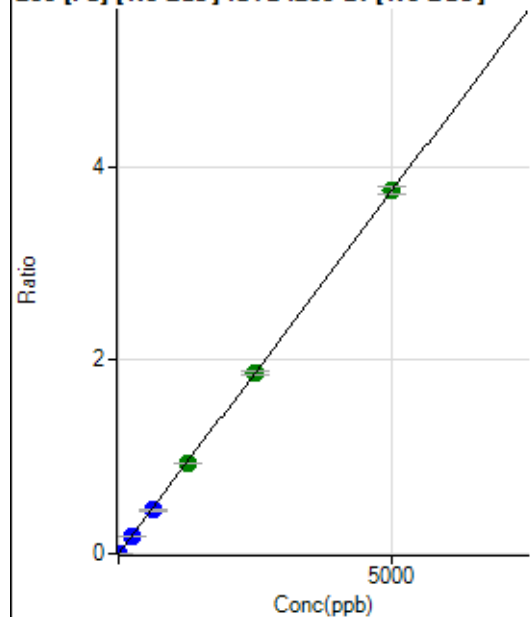
$$DL = 0.02435$$

$$BEC = 0.0624$$

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	168.52	0.0001	P	18.7
2	☐	1.000	0.922	1676.07	0.0008	P	6.7
3	☐	250.000	246.056	387734.88	0.1844	P	0.0
4	☐	625.000	602.206	996135.33	0.4512	P	3.6
5	☐	1250.000	1246.028	2025150.54	0.9335	A	1.7
6	☐	2500.000	2493.759	4132506.11	1.8681	A	1.3
7	☐	5000.000	5007.160	7944246.88	3.7509	A	2.3
8	☐			10576.69	0.0051	P	2.2

$$y = 7.4909E-004 * x + 8.6163E-005$$

$$R = 1.0000$$

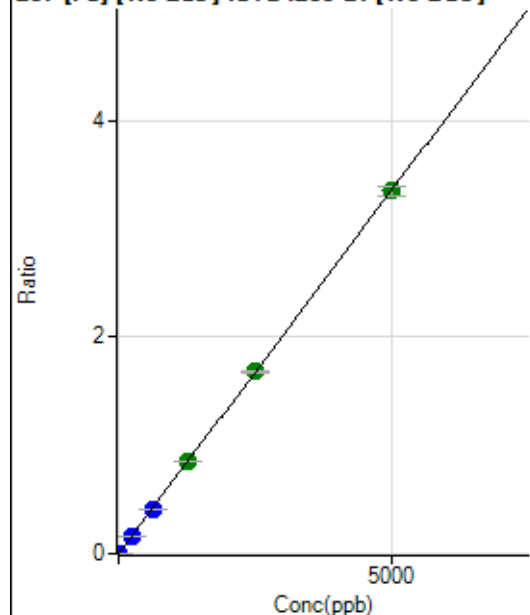
$$DL = 0.06438$$

$$BEC = 0.115$$

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	157.41	0.0001	P	23.6
2	☐	1.000	0.851	1403.81	0.0007	P	4.7
3	☐	250.000	243.219	343530.58	0.1634	P	0.7
4	☐	625.000	602.692	893822.46	0.4047	P	2.3
5	☐	1250.000	1272.100	1853231.15	0.8542	A	1.2
6	☐	2500.000	2505.926	3722037.79	1.6826	A	1.6
7	☐	5000.000	4994.640	7102515.03	3.3536	A	2.5
8	☐			9935.61	0.0048	P	1.4

$$y = 6.7142\text{E-}004 * x + 7.9761\text{E-}005$$

$$R = 1.0000$$

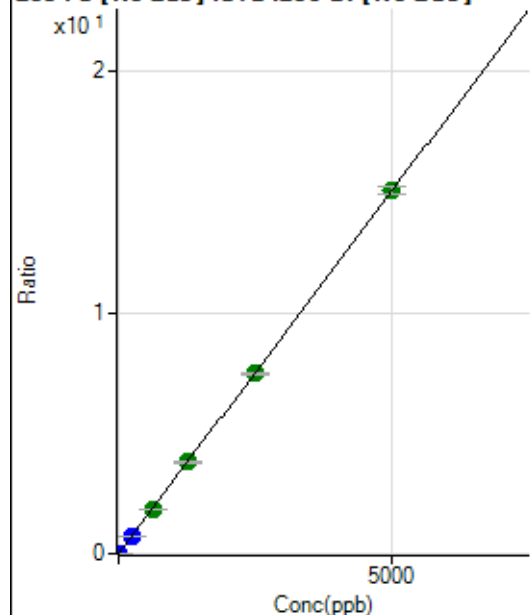
$$DL = 0.08398$$

$$BEC = 0.1188$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	670.39	0.0003	P	11.0
2	☐	1.000	0.870	6372.94	0.0030	P	3.7
3	☐	250.000	246.543	1558243.00	0.7411	P	0.2
4	☐	625.000	611.088	4055872.39	1.8364	A	1.8
5	☐	1250.000	1260.964	8219939.19	3.7890	A	1.9
6	☐	2500.000	2482.378	16499924.88	7.4588	A	0.7
7	☐	5000.000	5007.982	31869434.86	15.0470	A	2.1
8	☐			43102.75	0.0209	P	2.6

$$y = 0.0030 * x + 3.3970\text{E-}004$$

$$R = 1.0000$$

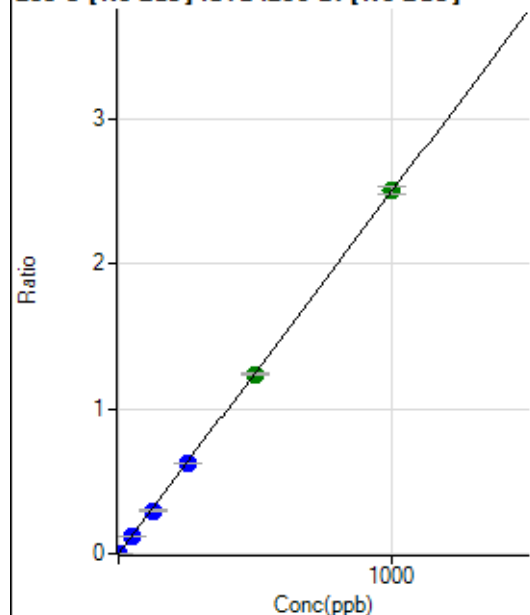
$$DL = 0.0374$$

$$BEC = 0.1131$$

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	25.00	0.0000	P	149.
2	☐	1.000	0.915	4948.34	0.0023	P	1.0
3	☐	50.000	48.668	255202.41	0.1214	P	0.2
4	☐	125.000	118.635	653350.64	0.2958	P	2.1
5	☐	250.000	249.279	1348662.34	0.6216	P	1.2
6	☐	500.000	496.699	2739975.69	1.2386	A	0.5
7	☐	1000.000	1002.693	5295736.97	2.5003	A	2.1
8	☐			2466.97	0.0012	P	14.2

$$y = 0.0025 * x + 1.4008E-005$$

$$R = 1.0000$$

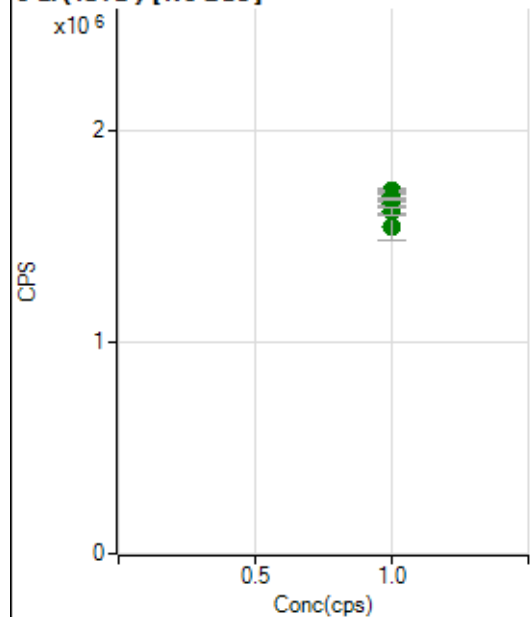
$$DL = 0.02513$$

$$BEC = 0.005618$$

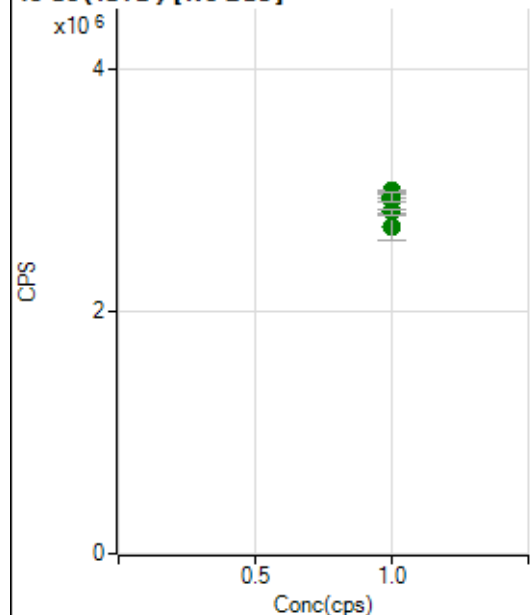
Weight: <None>

Min Conc: 0

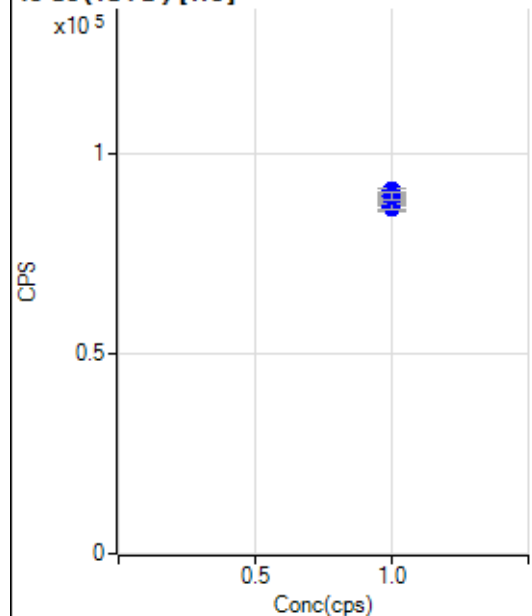
6 Li (ISTD) [No Gas]



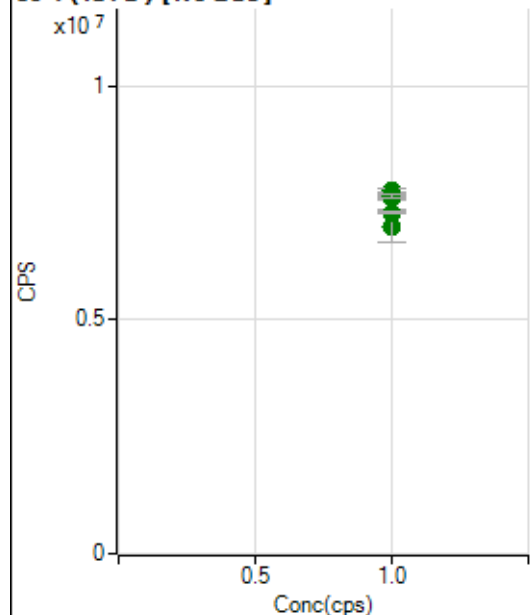
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1545013.95		A	8.7
2	☐	1.000		1652275.93		A	1.4
3	☐	1.000		1618395.83		A	2.1
4	☐	1.000		1697080.69		A	3.6
5	☐	1.000		1689491.09		A	0.8
6	☐	1.000		1713661.09		A	0.8
7	☐	1.000		1685847.25		A	2.7
8	☐	1.000		1676890.38		A	0.6

45 Sc (ISTD) [No Gas]

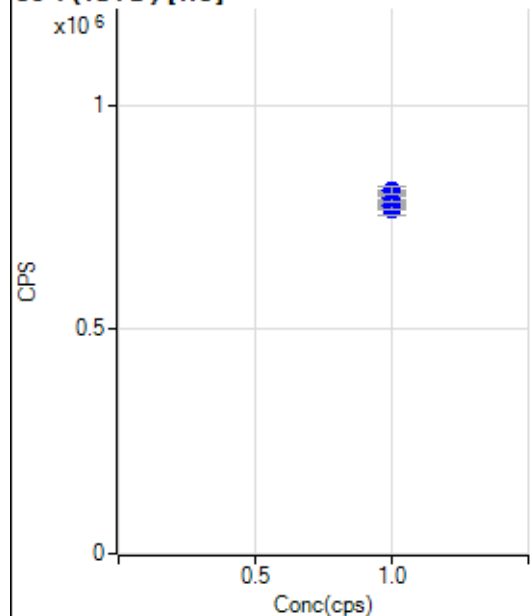
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2701023.49		A	8.2
2	☐	1.000		2932329.19		A	1.8
3	☐	1.000		2817619.75		A	1.3
4	☐	1.000		2950641.07		A	1.3
5	☐	1.000		2924260.65		A	1.0
6	☐	1.000		2993487.46		A	0.7
7	☐	1.000		2955063.64		A	1.4
8	☐	1.000		2943148.15		A	2.3

45 Sc (ISTD) [He]

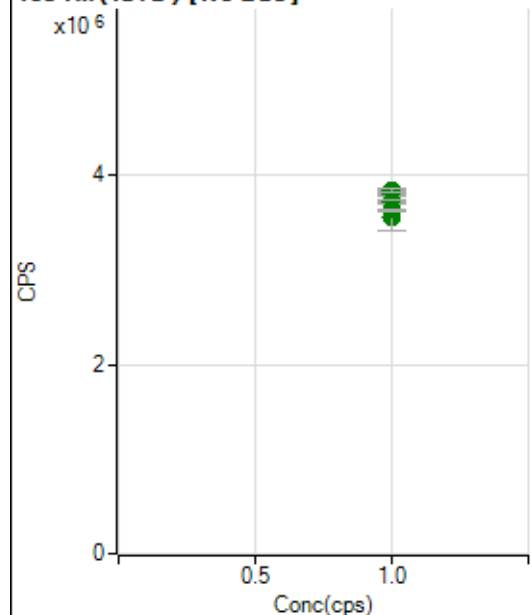
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		87271.82		P	0.9
2	☐	1.000		86896.35		P	3.1
3	☐	1.000		86345.01		P	1.7
4	☐	1.000		89381.10		P	0.7
5	☐	1.000		86700.44		P	1.7
6	☐	1.000		89332.11		P	1.3
7	☐	1.000		90514.88		P	1.0
8	☐	1.000		89321.00		P	2.2

89 Y (ISTD) [No Gas]

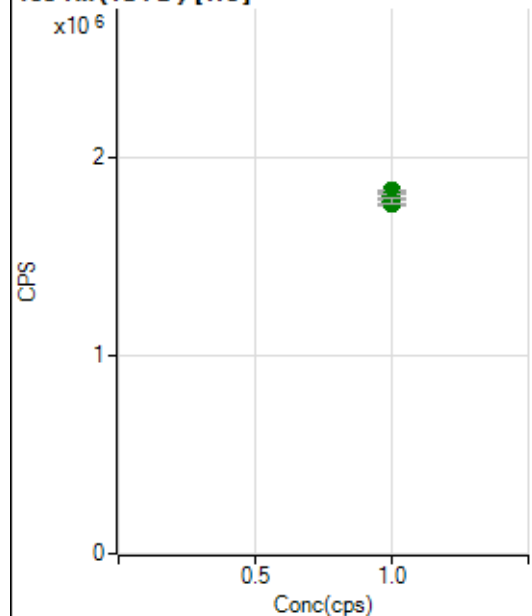
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7003219.90		A	9.6
2	☐	1.000		7616500.86		A	0.6
3	☐	1.000		7276798.29		A	0.5
4	☐	1.000		7604902.11		A	0.7
5	☐	1.000		7603274.82		A	0.5
6	☐	1.000		7750616.41		A	1.4
7	☐	1.000		7670426.41		A	1.0
8	☐	1.000		7644146.00		A	0.9

89 Y (ISTD) [He]

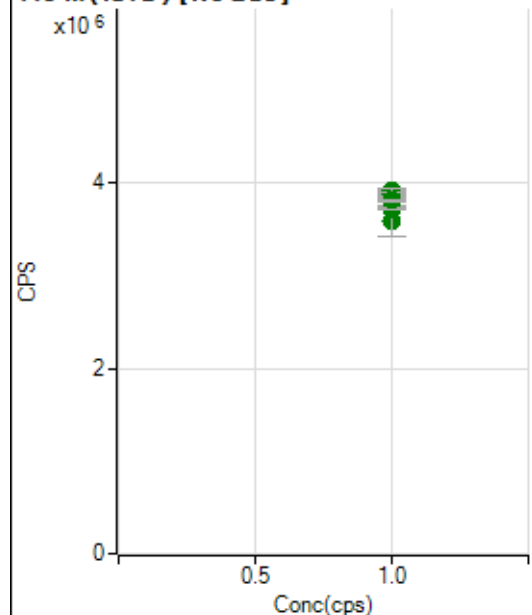
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		782076.36		P	0.9
2	☐	1.000		765135.24		P	2.8
3	☐	1.000		773621.07		P	1.0
4	☐	1.000		792390.53		P	1.0
5	☐	1.000		777235.74		P	2.1
6	☐	1.000		791287.44		P	1.9
7	☐	1.000		808391.94		P	0.4
8	☐	1.000		808220.16		P	2.0

103 Rh (ISTD) [No Gas]

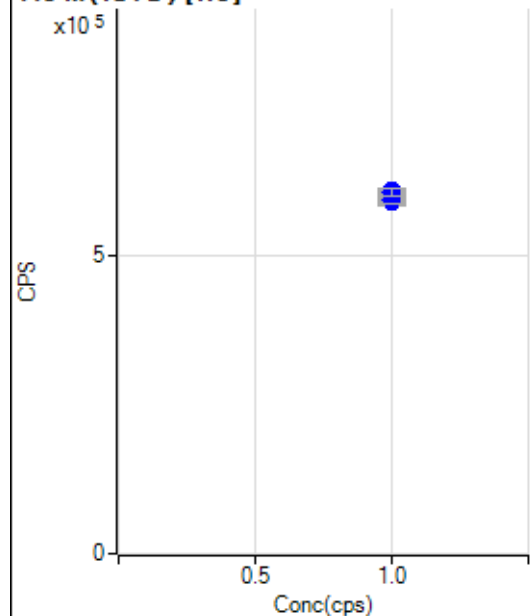
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3553971.43		A	8.1
2	☐	1.000		3812607.25		A	1.3
3	☐	1.000		3719694.27		A	0.2
4	☐	1.000		3794094.22		A	0.6
5	☐	1.000		3801415.49		A	0.9
6	☐	1.000		3839606.51		A	1.1
7	☐	1.000		3727749.82		A	0.8
8	☐	1.000		3635317.22		A	0.7

103 Rh (ISTD) [He]

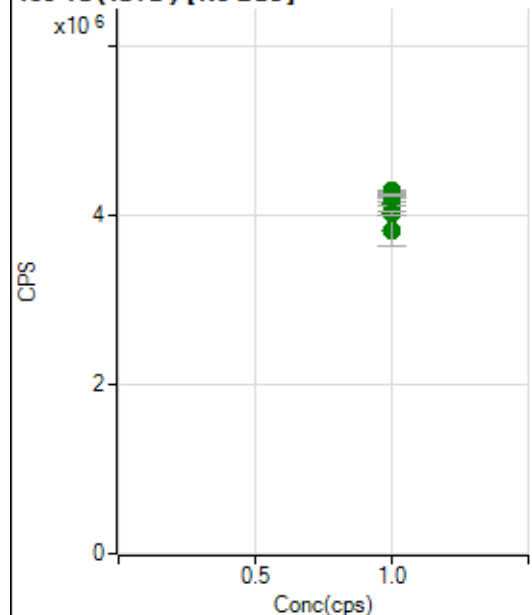
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1802100.44		A	1.4
2	☐	1.000		1792454.38		A	3.4
3	☐	1.000		1764789.90		A	0.5
4	☐	1.000		1832304.87		A	0.6
5	☐	1.000		1800822.40		A	2.1
6	☐	1.000		1801681.85		A	1.7
7	☐	1.000		1809862.47		A	1.0
8	☐	1.000		1781305.46		A	1.6

115 In (ISTD) [No Gas]

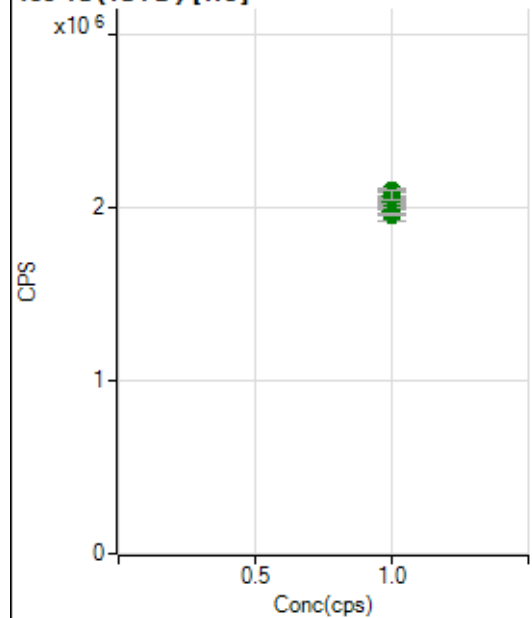
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3591569.65		A	9.7
2	☐	1.000		3874471.98		A	1.0
3	☐	1.000		3725653.38		A	0.8
4	☐	1.000		3915686.51		A	1.2
5	☐	1.000		3883678.21		A	1.9
6	☐	1.000		3916011.51		A	1.0
7	☐	1.000		3829085.22		A	0.8
8	☐	1.000		3809506.07		A	0.2

115 In (ISTD) [He]

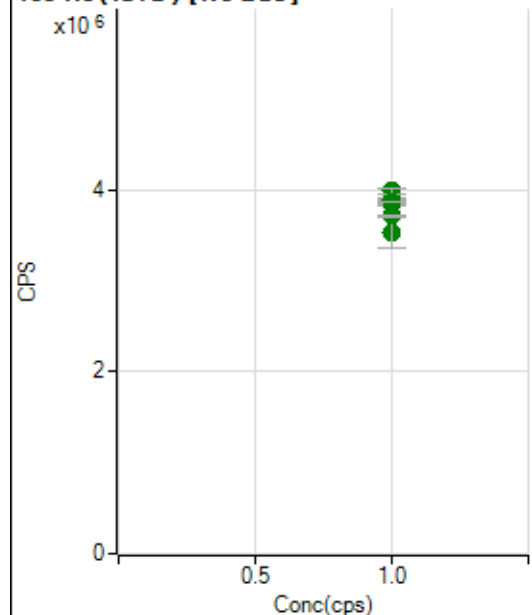
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		597228.76		P	0.5
2	☐	1.000		589010.96		P	2.7
3	☐	1.000		591807.74		P	0.4
4	☐	1.000		607452.02		P	0.6
5	☐	1.000		592005.11		P	1.8
6	☐	1.000		601562.07		P	1.3
7	☐	1.000		601965.24		P	0.2
8	☐	1.000		604440.93		P	1.9

159 Tb (ISTD) [No Gas]

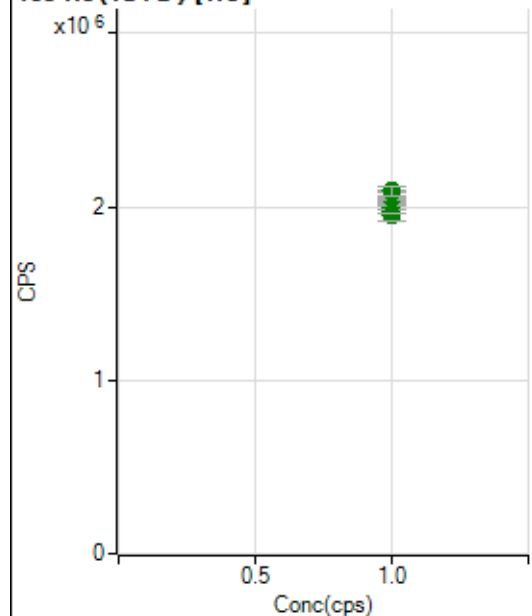
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3827762.96		A	9.3
2	☐	1.000		4144004.56		A	1.0
3	☐	1.000		4030179.59		A	0.7
4	☐	1.000		4209410.11		A	0.3
5	☐	1.000		4245957.78		A	0.4
6	☐	1.000		4294089.62		A	0.7
7	☐	1.000		4227745.56		A	1.0
8	☐	1.000		4245441.64		A	0.7

159 Tb (ISTD) [He]

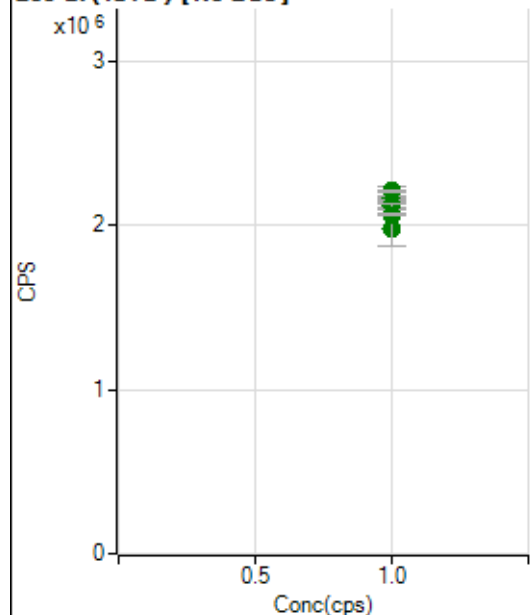
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1981723.94		A	1.2
2	☐	1.000		1953106.19		A	3.4
3	☐	1.000		1963164.07		A	0.7
4	☐	1.000		2024260.60		A	0.9
5	☐	1.000		2030088.35		A	2.6
6	☐	1.000		2044390.98		A	2.1
7	☐	1.000		2094846.36		A	1.2
8	☐	1.000		2068521.17		A	2.4

165 Ho (ISTD) [No Gas]

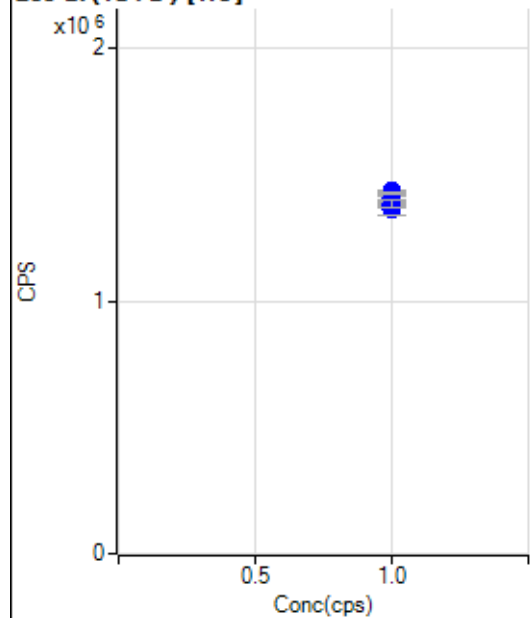
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3532187.23		A	9.8
2	☐	1.000		3853898.01		A	1.3
3	☐	1.000		3711715.23		A	0.8
4	☐	1.000		3843063.45		A	0.4
5	☐	1.000		3890395.36		A	1.2
6	☐	1.000		3984953.86		A	1.3
7	☐	1.000		3871257.90		A	2.1
8	☐	1.000		3865364.11		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2000302.85		A	1.3
2	☐	1.000		1948510.28		A	3.4
3	☐	1.000		1976253.41		A	1.1
4	☐	1.000		2043896.17		A	1.3
5	☐	1.000		2013356.72		A	0.7
6	☐	1.000		2046292.29		A	0.9
7	☐	1.000		2086054.81		A	0.5
8	☐	1.000		2092397.36		A	2.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1979789.09		A	9.9
2	☐	1.000		2156552.28		A	0.9
3	☐	1.000		2102635.58		A	0.6
4	☐	1.000		2209441.95		A	3.2
5	☐	1.000		2169828.01		A	1.4
6	☐	1.000		2212213.02		A	0.6
7	☐	1.000		2118360.70		A	1.3
8	☐	1.000		2066810.58		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1388167.79		P	1.5
2	☐	1.000		1359305.87		P	3.0
3	☐	1.000		1376882.00		P	0.7
4	☐	1.000		1420657.46		P	0.4
5	☐	1.000		1405987.31		P	2.3
6	☐	1.000		1435958.52		P	0.7
7	☐	1.000		1429107.25		P	0.4
8	☐	1.000		1385791.00		P	2.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8010521MS2.b
Acq. Date-Time 2021-01-05 14:31:30
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2816	28164.63			1.233	5.000
24		32309	323093.00			2.014	5.000
25		4332	43320.48			2.030	5.000
26		5010	50098.72			1.575	5.000
59		5504	55042.26			1.280	5.000
113		2413	24130.77			1.211	5.000
115		7748	77483.50			1.468	5.000
206		2426	24257.91			1.403	5.000
207		2033	20325.75			1.382	5.000
208		4950	49496.97			1.563	5.000
220		1	8.60			34.738	

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

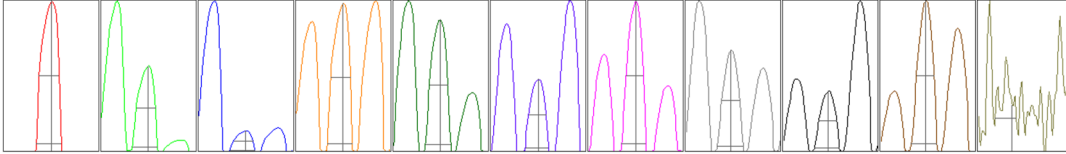
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2847	2820	2791	2852	2772
24	33349	32233	32031	32351	31583
25	4467	4332	4262	4353	4246
26	5071	5045	4944	5082	4908
59	5519	5547	5458	5587	5410
113	2389	2410	2408	2463	2395
115	7898	7799	7658	7772	7614
206	2411	2441	2424	2472	2381
207	2043	2035	2008	2073	2004
208	4913	4982	4922	5067	4866

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4794.20	9.05	8.90 - 9.10	
24	56092.98	24.00	23.90 - 24.10	
25	7509.31	25.00	24.90 - 25.10	
26	8564.32	26.00	25.90 - 26.10	
59	9997.97	59.00	58.90 - 59.10	
113	4582.74	113.05	112.90 - 113.10	
115	14849.88	115.05	114.90 - 115.10	
206	4485.76	205.95	205.90 - 206.10	
207	3692.82	206.95	206.90 - 207.10	
208	9281.97	207.95	207.90 - 208.10	
220	0.90	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.786	0.900	
24	0.61	0.786	0.900	
25	0.61	0.788	0.900	
26	0.63	0.786	0.900	
59	0.58	0.809	0.900	
113	0.55	0.735	0.900	
115	0.54	0.770	0.900	
206	0.57	0.822	0.900	
207	0.57	0.787	0.900	
208	0.56	0.805	0.900	
220	0.68			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	14.8 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1228	12285.00			4.544	
89		39233	392331.97			4.226	
205		2443	24428.77			3.930	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1311	1186	1262	1182	1202
89	41846	38210	39882	37802	38426
205	2580	2379	2497	2341	2417

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V