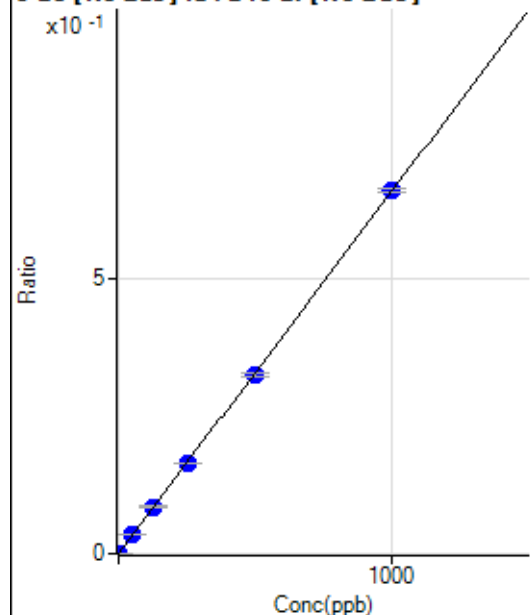


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8060321MS.b\
Analysis File: P8060321MS.batch.bin
DA Date-Time: 2021-06-04 11:12:06
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-06-03 13:13:14
2	007CAL.S.d	S02	2021-06-03 13:26:03
3	008CAL.S.d	S03	2021-06-03 13:29:16
4	013CAL.S.d	S04	2021-06-03 13:44:54
5	014CAL.S.d	S05	2021-06-03 13:48:04
6	015CAL.S.d	S06	2021-06-03 13:51:08
7	016CAL.S.d	S07	2021-06-03 13:54:14
8	017CAL.S.d	S08	2021-06-03 13:57:17

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17.33	0.0000	P	37.3
2	☐	1.000	1.058	559.23	0.0007	P	3.8
3	☐	50.000	51.856	27406.58	0.0341	P	1.1
4	☐	125.000	128.199	69177.05	0.0844	P	3.3
5	☐	250.000	250.236	136178.60	0.1647	P	0.5
6	☐	500.000	494.615	276864.62	0.3255	P	1.9
7	☐	1000.000	1002.140	552688.09	0.6594	P	1.1
8	☐			108.65	0.0001	P	14.5

$$y = 6.5797E-004 * x + 2.2015E-005$$

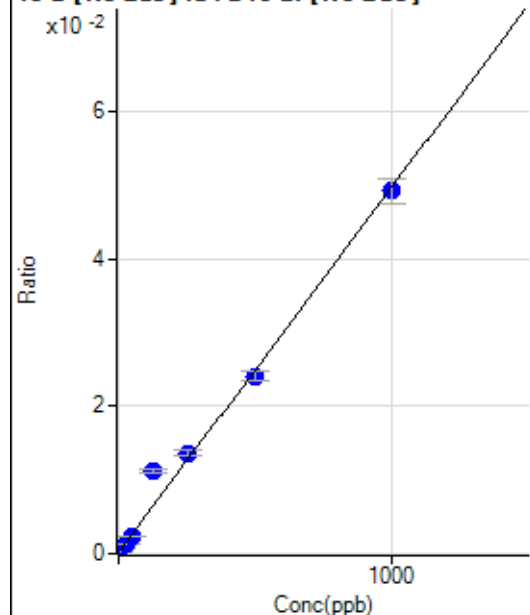
$$R = 1.0000$$

$$DL = 0.03743$$

$$BEC = 0.03346$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.31	0.0002	P	10.2
2	☐	25.000	21.932	978.51	0.0013	P	7.4
3	☐	50.000	45.161	1933.09	0.0024	P	3.7
4	☐	125.000	224.868	9275.10	0.0113	P	4.7
5	☐	250.000	271.927	11287.45	0.0136	P	6.7
6	☐	500.000	483.332	20544.93	0.0241	P	5.4
7	☐	1000.000	990.688	41297.52	0.0493	P	7.1
8	☐			6259.44	0.0075	P	9.7

$$y = 4.9567E-005 * x + 1.6923E-004$$

$$R = 0.9940$$

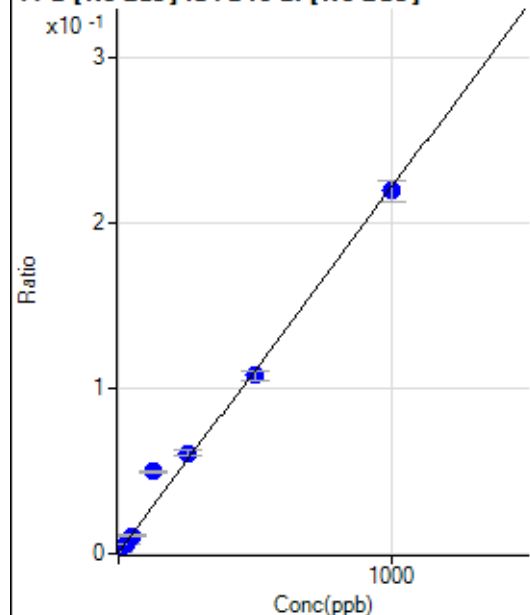
$$DL = 1.043$$

$$BEC = 3.414$$

Weight: <None>

Min Conc: 0

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



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	501.91	0.0006	P	4.4
2	☐	25.000	23.497	4540.49	0.0058	P	8.4
3	☐	50.000	46.268	8722.21	0.0109	P	5.2
4	☐	125.000	223.036	40951.78	0.0499	P	2.2
5	☐	250.000	271.440	50141.74	0.0606	P	5.9
6	☐	500.000	484.636	91744.14	0.1077	P	5.3
7	☐	1000.000	990.292	183963.93	0.2195	P	5.7
8	☐			28494.02	0.0341	P	10.0

$$y = 2.2101E-004 * x + 6.3714E-004$$

R = 0.9943

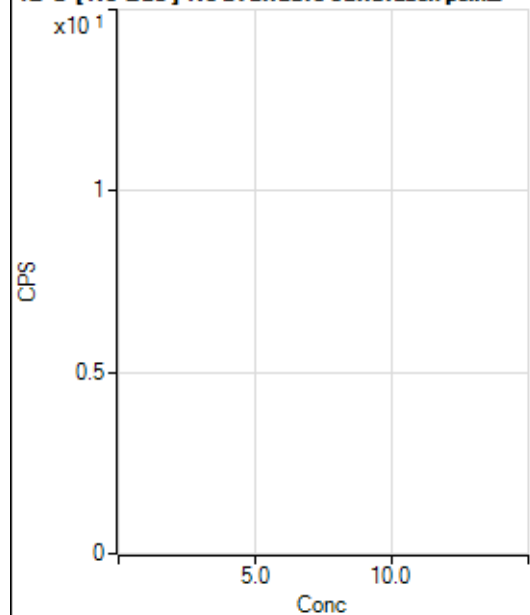
DL = 0.3839

BEC = 2.883

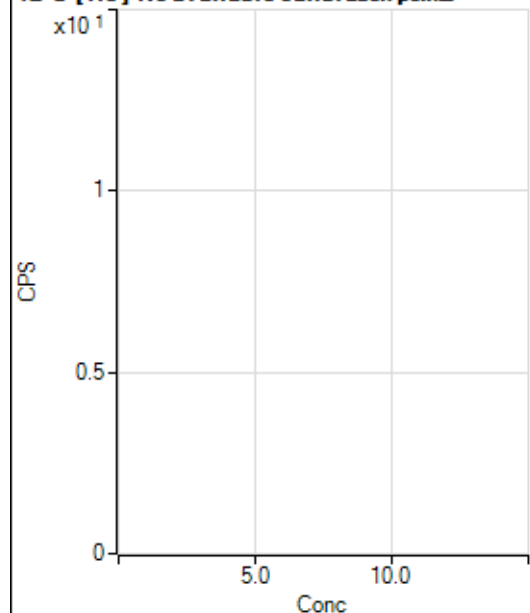
Weight: <None>

Min Conc: 0

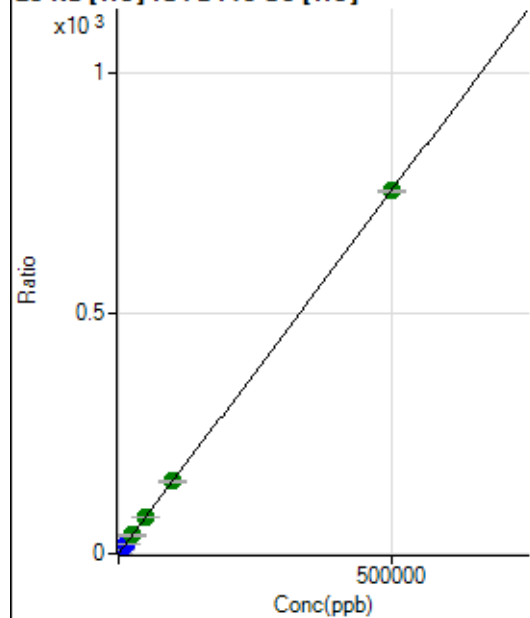
12 C [No Gas] No available calibration points



	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2224161.25		A	1.1
2	☐			2378731.48		A	0.6
3	☐			2582478.90		A	1.4
4	☐			2835213.67		A	0.3
5	☐			2790673.07		A	2.1
6	☐			3014978.52		A	2.6
7	☐			3261680.37		A	2.6
8	☐			3027884.90		A	1.7

12 C [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			24988.33		P	0.4
2	☐			26324.07		P	2.9
3	☐			28803.78		P	2.2
4	☐			30690.98		P	1.9
5	☐			31450.90		P	0.2
6	☐			34811.30		P	3.5
7	☐			38425.73		P	0.9
8	☐			36888.49		P	1.2

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

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6787.88	0.1606	P	1.7
2	☐	500.000	505.243	38930.29	0.9248	P	0.7
3	☐	5000.000	5040.834	330175.20	7.7846	P	1.9
4	☐	12500.000	12809.661	784620.65	19.5345	P	1.9
5	☐	25000.000	25169.475	1556003.86	38.2280	A	1.5
6	☐	50000.000	50892.505	3171349.62	77.1326	A	1.5
7	☐	100000.00	100392.72	6231025.14	151.9989	A	2.8
8	☐	500000.00	499815.57	31460361.8	756.1032	A	0.6

$$y = 0.0015 * x + 0.1606$$

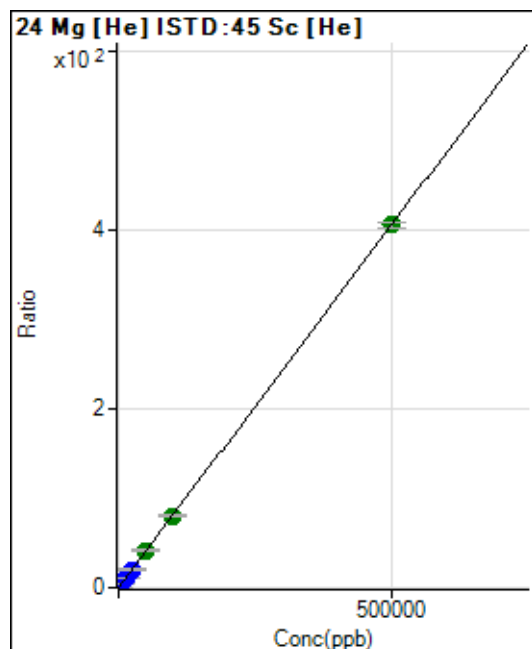
$$R = 1.0000$$

$$DL = 5.389$$

$$BEC = 106.2$$

Weight: <None>

Min Conc: 0



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	283.34	0.0067	P	7.9
2	☐	500.000	488.982	16976.92	0.4033	P	3.0
3	☐	5000.000	5022.904	173060.37	4.0803	P	1.6
4	☐	12500.000	12717.056	414539.10	10.3204	P	1.9
5	☐	25000.000	24914.700	822704.76	20.2128	P	2.1
6	☐	50000.000	50804.967	1693966.81	41.2102	A	3.7
7	☐	100000.00	99291.939	3301656.15	80.5337	A	2.0
8	☐	500000.00	500059.73	16873775.3	405.5613	A	1.8

$$y = 8.1101\text{E-}004 * x + 0.0067$$

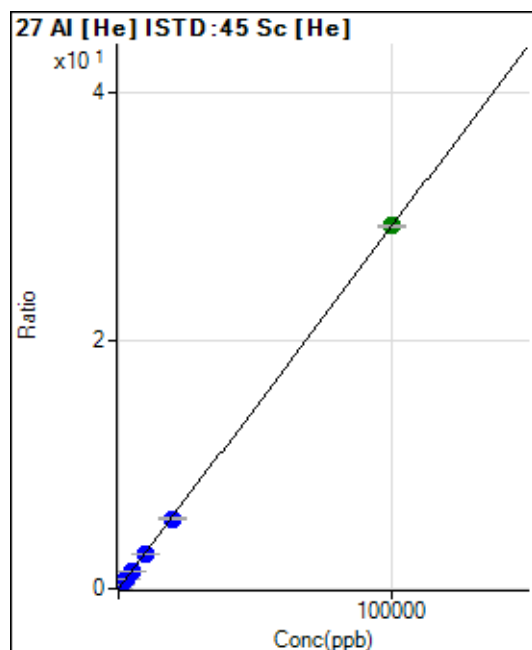
R = 1.0000

DL = 1.962

BEC = 8.268

Weight: <None>

Min Conc: 0



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	215.81	0.0051	P	2.8
2	☐	20.000	23.345	501.62	0.0119	P	5.6
3	☐	1000.000	975.750	12291.16	0.2898	P	1.2
4	☐	2500.000	2428.577	28662.81	0.7136	P	2.0
5	☐	5000.000	4816.076	57398.75	1.4101	P	1.3
6	☐	10000.000	9683.237	116344.31	2.8301	P	2.5
7	☐	20000.000	19311.102	231185.46	5.6389	P	1.5
8	☐	100000.00	100180.67	1216308.28	29.2317	A	0.5

$$y = 2.9174\text{E-}004 * x + 0.0051$$

R = 1.0000

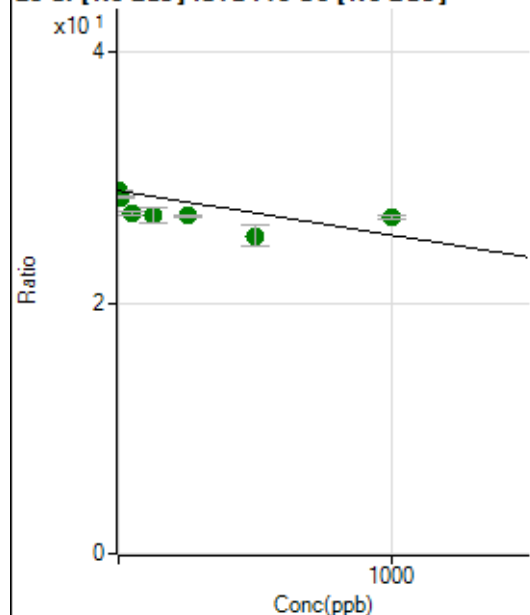
DL = 1.446

BEC = 17.5

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31297732.9	28.9203	A	0.4
2	☐	10.000	155.302	30903775.3	28.3738	A	0.4
3	☐	50.000	496.752	30828560.4	27.1722	A	1.4
4	☐	125.000	547.609	30579303.1	26.9933	A	4.3
5	☐	250.000	561.284	30929725.6	26.9451	A	0.6
6	☐	500.000	1016.389	31246771.1	25.3437	A	6.4
7	☐	1000.000	587.368	31814978.4	26.8534	A	1.0
8	☐			31035713.5	26.4038	A	2.8

$$y = -0.0035 * x + 28.9203$$

$$R = -0.5585$$

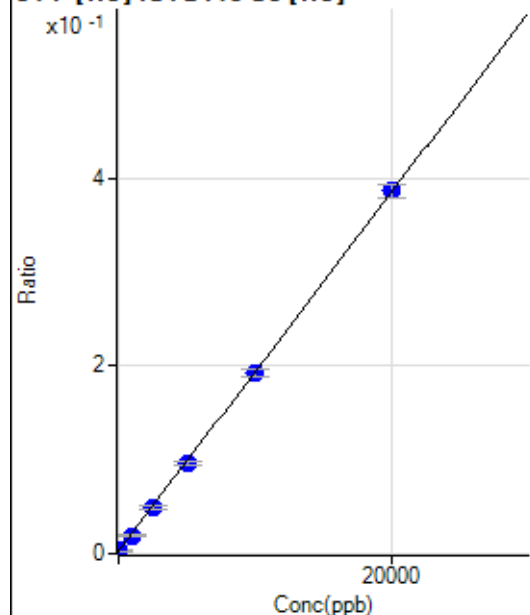
$$DL = -94.83$$

$$BEC = -8219$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	25.671	138.89	0.0033	P	19.1
2	☐	0.000	-25.671	97.23	0.0023	P	27.3
3	☐	1000.000	871.084	825.05	0.0195	P	15.6
4	☐	2500.000	2443.641	1989.08	0.0495	P	6.6
5	☐	5000.000	4875.286	3908.98	0.0961	P	5.2
6	☐	10000.000	9932.946	7924.57	0.1928	P	3.8
7	☐	20000.000	20078.196	15859.08	0.3869	P	3.5
8	☐			102.78	0.0025	P	31.9

$$y = 1.9128E-005 * x + 0.0028$$

$$R = 1.0000$$

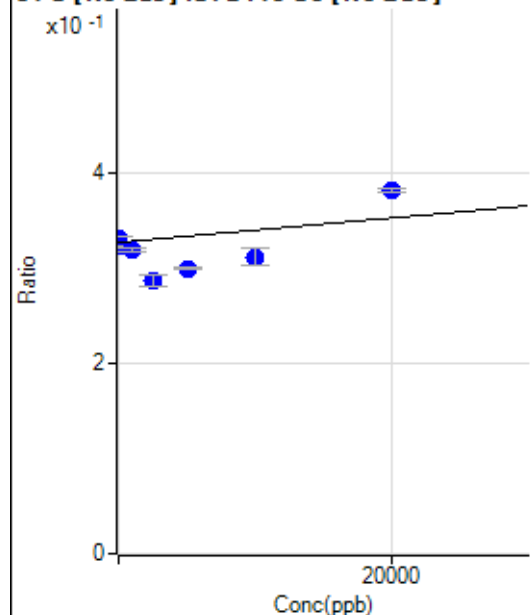
$$DL = 98.76$$

$$BEC = 146.3$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	2778.374	357501.70	0.3304	P	1.6
2	☐	0.000	-2778.374	352044.75	0.3232	P	0.4
3	☐	1000.000	-5796.367	362310.15	0.3193	P	1.3
4	☐	2500.000	-30989.920	325100.46	0.2869	P	3.8
5	☐	5000.000	-21409.535	343517.42	0.2993	P	0.4
6	☐	10000.000	-11743.720	384311.56	0.3117	P	6.3
7	☐	20000.000	42000.302	451150.27	0.3808	P	1.2
8	☐			322812.03	0.2746	P	2.0

$$y = 1.2859\text{E-}006 * x + 0.3268$$

$$R = 0.6712$$

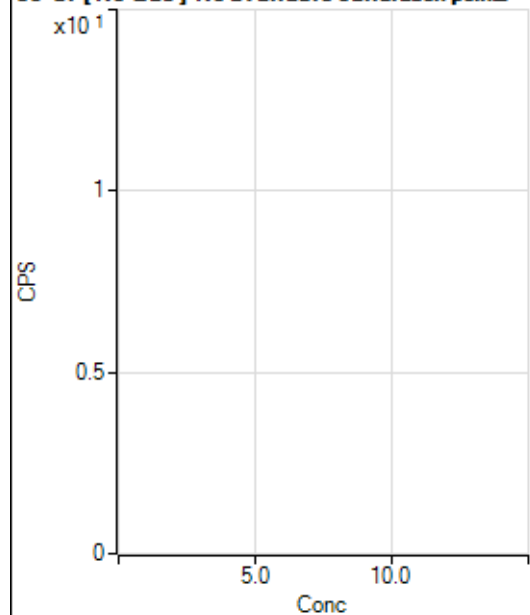
$$DL = 7857$$

$$BEC = 2.541\text{E}+05$$

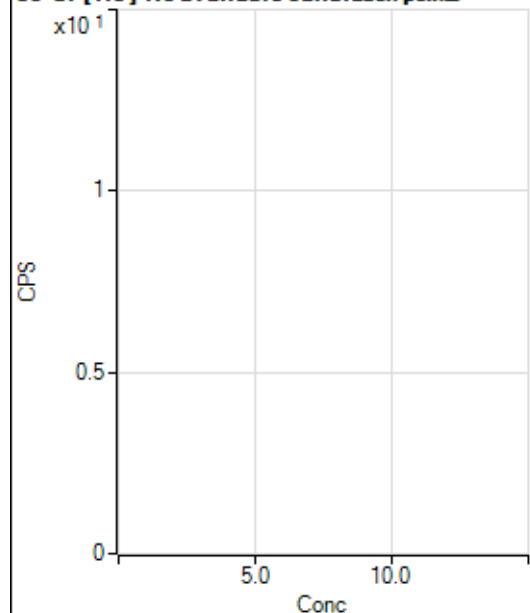
Weight: <None>

Min Conc: 0

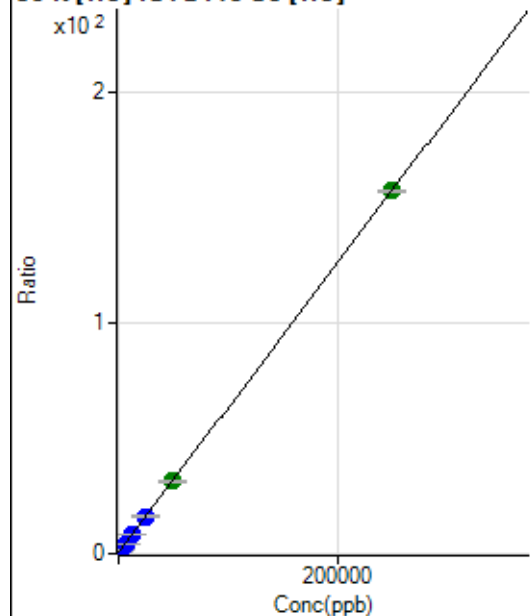
35 Cl [No Gas] No available calibration points



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			184494.21		P	0.5
2	☐			171603.81		P	0.2
3	☐			176791.78		P	0.3
4	☐			167562.82		P	0.8
5	☐			166076.05		P	1.5
6	☐			167345.87		P	0.2
7	☐			166278.42		P	0.1
8	☐			157352.32		P	0.3

35 Cl [He] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1702.93		P	10.9
2	☐			1541.79		P	3.8
3	☐			1536.24		P	5.8
4	☐			1400.11		P	1.6
5	☐			1250.09		P	20.9
6	☐			1394.55		P	1.5
7	☐			1336.21		P	4.7
8	☐			1238.98		P	8.1

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

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20350.93	0.4815	P	2.0
2	☐	500.000	482.183	33005.11	0.7840	P	0.4
3	☐	2500.000	2538.985	87990.08	2.0743	P	0.8
4	☐	6250.000	6203.551	175650.49	4.3731	P	1.8
5	☐	12500.000	12479.528	338247.79	8.3100	P	1.3
6	☐	25000.000	25031.386	665312.97	16.1839	P	2.6
7	☐	50000.000	49418.538	1290654.17	31.4821	A	1.9
8	☐	250000.00	250114.98	6548279.44	157.3802	A	0.7

$$y = 6.2731E-004 * x + 0.4815$$

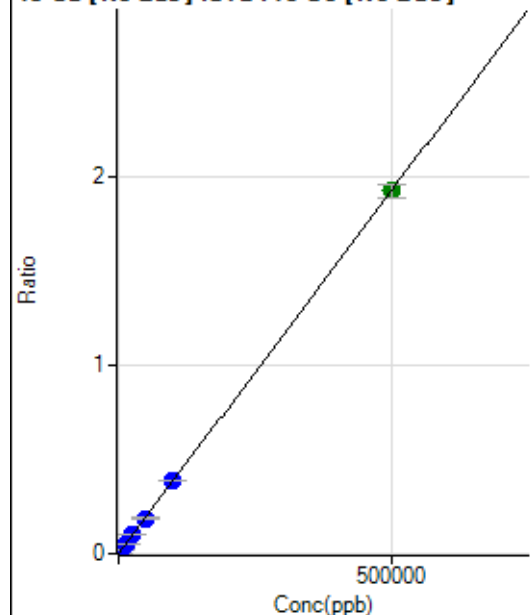
$$R = 1.0000$$

$$DL = 46.85$$

$$BEC = 767.6$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	209.98	0.0002	P	2.8
2	☐	500.000	485.696	2251.99	0.0021	P	1.2
3	☐	5000.000	4906.563	21693.68	0.0191	P	1.3
4	☐	12500.000	13032.679	57177.09	0.0505	P	3.8
5	☐	25000.000	25344.543	112444.80	0.0980	P	0.5
6	☐	50000.000	48363.448	230283.51	0.1868	P	6.0
7	☐	100000.00	101175.03	462602.67	0.3905	P	1.3
8	☐	500000.00	499899.05	2266671.62	1.9285	A	3.4

$$y = 3.8574\text{E-}006 * x + 1.9401\text{E-}004$$

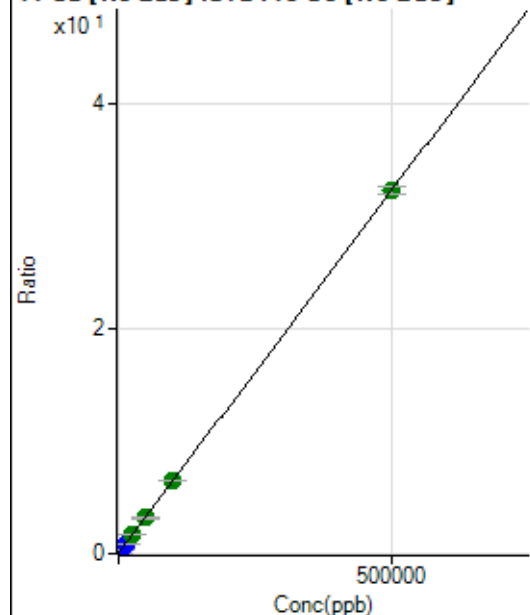
$$R = 1.0000$$

$$DL = 4.3$$

$$BEC = 50.3$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{jt}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39801.63	0.0368	P	0.9
2	☐	500.000	471.071	73088.69	0.0671	P	1.3
3	☐	5000.000	4887.868	398755.72	0.3515	P	1.7
4	☐	12500.000	12843.639	978437.80	0.8637	P	4.1
5	☐	25000.000	26417.476	1994517.53	1.7376	A	0.8
6	☐	50000.000	49529.683	3978162.84	3.2255	A	5.7
7	☐	100000.00	100888.60	7739018.94	6.5321	A	1.0
8	☐	500000.00	499790.99	37871225.3	32.2136	A	2.3

$$y = 6.4381\text{E-}005 * x + 0.0368$$

$$R = 1.0000$$

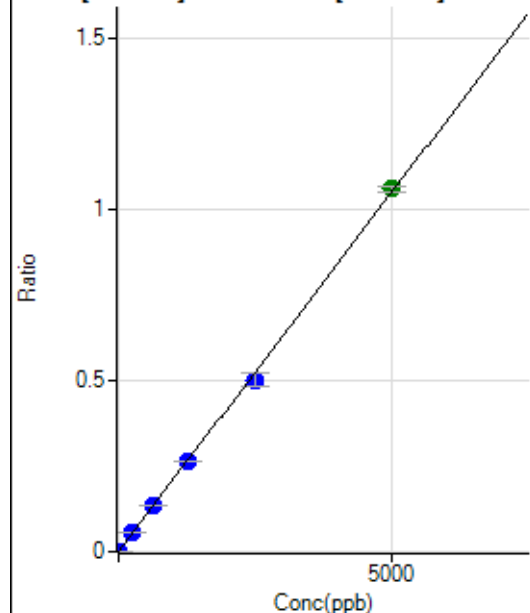
$$DL = 15.84$$

$$BEC = 571.3$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	291.68	0.0003	P	8.8
2	☐	5.000	5.131	1466.78	0.0013	P	5.4
3	☐	250.000	255.832	61248.18	0.0540	P	0.5
4	☐	625.000	644.181	153584.19	0.1355	P	2.9
5	☐	1250.000	1260.161	303986.51	0.2648	P	0.7
6	☐	2500.000	2386.540	617739.99	0.5013	P	7.5
7	☐	5000.000	5051.500	1256749.57	1.0608	A	1.9
8	☐			419.46	0.0004	P	13.5

$$y = 2.0994E-004 * x + 2.6956E-004$$

$$R = 0.9996$$

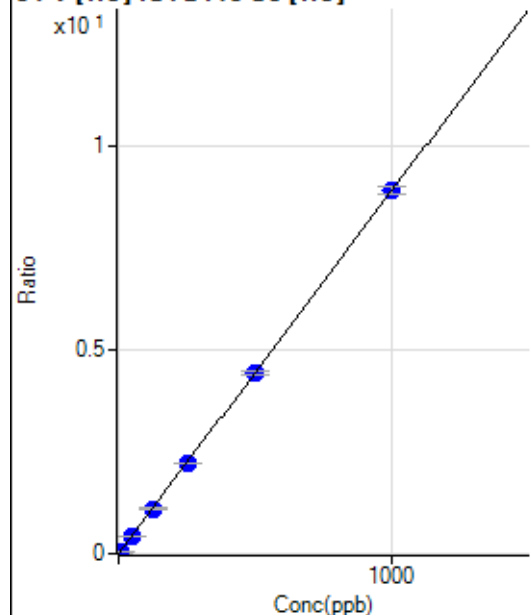
$$DL = 0.3398$$

$$BEC = 1.284$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0001	P	35.8
2	☐	5.000	5.143	1930.15	0.0458	P	6.3
3	☐	50.000	50.029	18870.35	0.4448	P	0.6
4	☐	125.000	124.228	44352.82	1.1043	P	2.3
5	☐	250.000	249.515	90270.11	2.2178	P	1.9
6	☐	500.000	499.153	182409.97	4.4366	P	1.7
7	☐	1000.000	1000.639	364612.61	8.8938	P	2.0
8	☐			76.67	0.0018	P	19.3

$$y = 0.0089 * x + 1.3195E-004$$

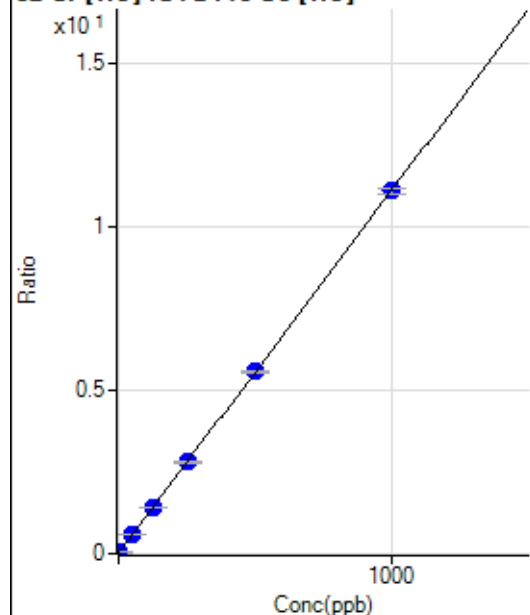
$$R = 1.0000$$

$$DL = 0.01593$$

$$BEC = 0.01485$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	552.24	0.0131	P	5.5
2	☐	2.000	2.194	1576.77	0.0375	P	3.7
3	☐	50.000	50.627	24409.78	0.5756	P	3.2
4	☐	125.000	124.701	56176.36	1.3985	P	1.3
5	☐	250.000	251.742	114378.16	2.8100	P	1.2
6	☐	500.000	500.371	229121.89	5.5723	P	1.3
7	☐	1000.000	999.385	455773.36	11.1165	P	1.3
8	☐			1630.11	0.0392	P	3.3

$$y = 0.0111 * x + 0.0131$$

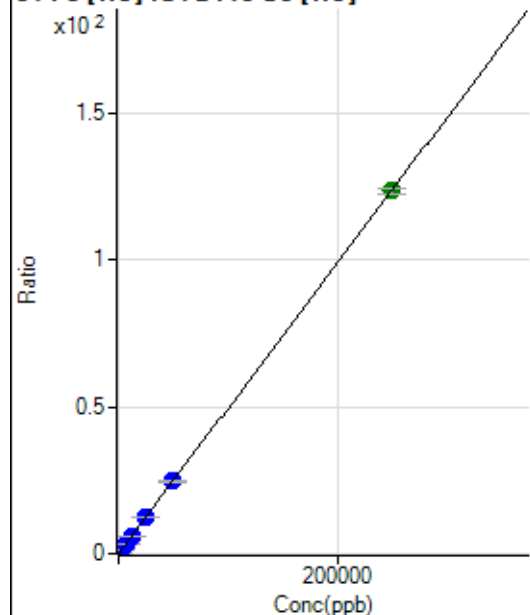
R = 1.0000

DL = 0.1927

BEC = 1.177

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	300.01	0.0071	P	5.4
2	☐	50.000	47.939	1296.38	0.0308	P	4.9
3	☐	2500.000	2486.462	52447.97	1.2366	P	1.7
4	☐	6250.000	6236.425	124145.09	3.0908	P	2.0
5	☐	12500.000	12410.325	250064.46	6.1436	P	1.7
6	☐	25000.000	25001.792	508506.83	12.3698	P	2.8
7	☐	50000.000	49958.898	1013050.40	24.7103	P	1.8
8	☐	250000.00	250013.00	5143738.43	123.6314	A	1.6

$$y = 4.9447E-004 * x + 0.0071$$

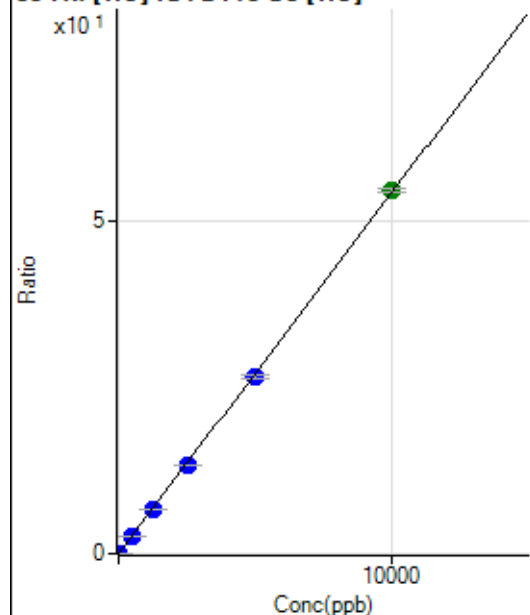
R = 1.0000

DL = 2.317

BEC = 14.35

Weight: <None>

Min Conc: 0

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

	R _j t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.00	0.0009	P	7.3
2	☐	1.000	0.977	263.34	0.0063	P	11.3
3	☐	500.000	494.802	114078.07	2.6894	P	1.1
4	☐	1250.000	1232.555	269017.06	6.6978	P	2.2
5	☐	2500.000	2449.769	541812.21	13.3113	P	1.5
6	☐	5000.000	4922.770	1099679.76	26.7479	P	2.0
7	☐	10000.000	10053.613	2239841.27	54.6253	A	1.1
8	☐			1075.61	0.0258	P	9.8

$$y = 0.0054 * x + 9.4604E-004$$

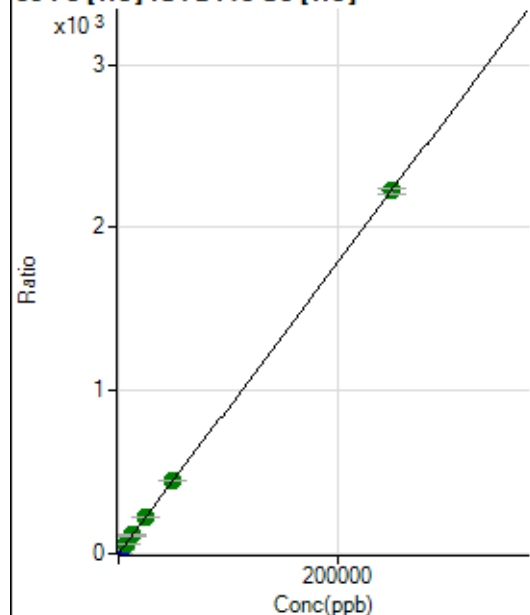
$$R = 0.9999$$

$$DL = 0.03813$$

$$BEC = 0.1741$$

Weight: <None>

Min Conc: 0

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

	R _j t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1235.26	0.0292	P	8.2
2	☐	50.000	50.829	20275.79	0.4817	P	1.3
3	☐	2500.000	2504.337	946716.87	22.3201	P	1.2
4	☐	6250.000	6422.660	2297406.56	57.1967	A	1.7
5	☐	12500.000	12637.177	4579497.79	112.5114	A	1.8
6	☐	25000.000	25124.486	9195666.41	223.6597	A	1.7
7	☐	50000.000	50242.256	18336900.6	447.2303	A	0.8
8	☐	250000.00	249927.88	92556983.5	2,224.611	A	1.5

$$y = 0.0089 * x + 0.0292$$

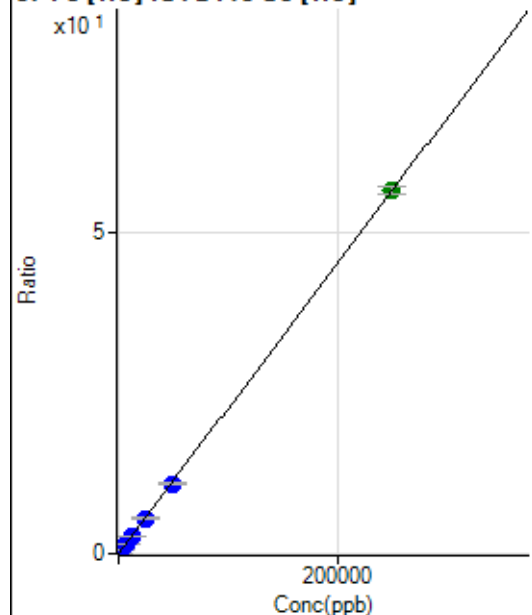
$$R = 1.0000$$

$$DL = 0.8066$$

$$BEC = 3.285$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0018	P	1.5
2	☐	50.000	52.348	575.95	0.0137	P	8.4
3	☐	2500.000	2409.336	23189.42	0.5467	P	0.9
4	☐	6250.000	6120.629	55669.48	1.3860	P	1.8
5	☐	12500.000	12110.185	111543.80	2.7405	P	1.8
6	☐	25000.000	24350.611	226483.65	5.5085	P	1.7
7	☐	50000.000	48362.109	448475.78	10.9386	P	1.2
8	☐	250000.00	250416.14	2356136.05	56.6315	A	2.2

$$y = 2.2614E-004 * x + 0.0018$$

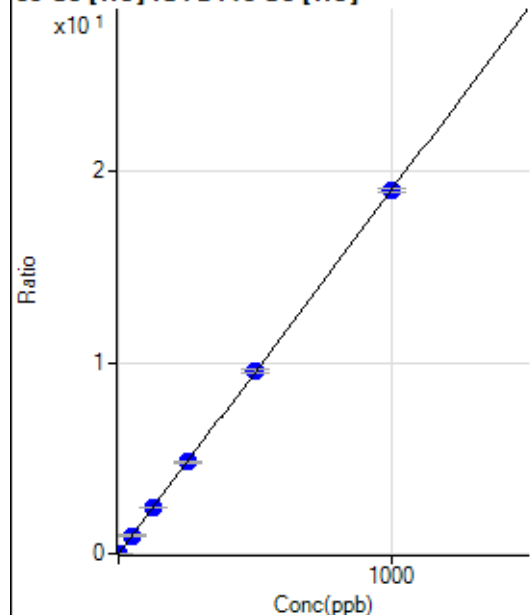
R = 1.0000

DL = 0.3781

BEC = 8.139

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.11	0.0010	P	29.7
2	☐	1.000	1.009	848.93	0.0202	P	11.2
3	☐	50.000	50.119	40510.88	0.9550	P	0.7
4	☐	125.000	127.341	97409.19	2.4250	P	1.3
5	☐	250.000	251.280	194742.63	4.7843	P	1.0
6	☐	500.000	502.673	393475.26	9.5699	P	1.4
7	☐	1000.000	998.045	778984.96	18.9997	P	1.1
8	☐			1188.95	0.0286	P	5.6

$$y = 0.0190 * x + 9.7046E-004$$

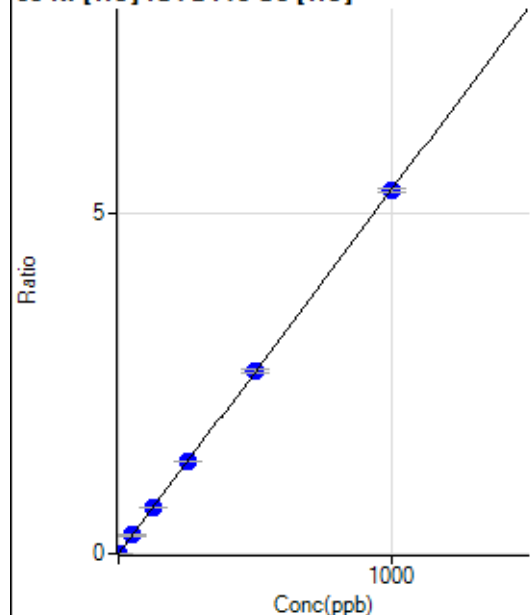
R = 1.0000

DL = 0.0454

BEC = 0.05098

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0002	P	31.8
2	☐	1.000	1.140	266.67	0.0063	P	13.7
3	☐	50.000	50.708	11509.20	0.2714	P	2.6
4	☐	125.000	127.023	27296.25	0.6795	P	0.4
5	☐	250.000	253.888	55270.06	1.3579	P	1.9
6	☐	500.000	502.443	110462.19	2.6871	P	2.8
7	☐	1000.000	997.518	218714.58	5.3345	P	1.1
8	☐			410.01	0.0098	P	6.1

$$y = 0.0053 * x + 2.3586E-004$$

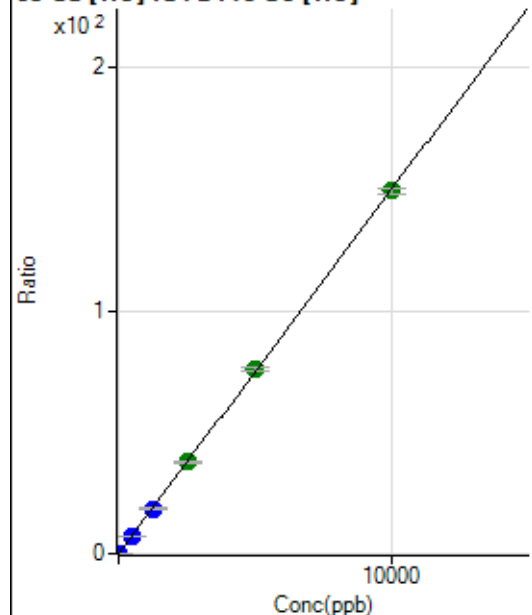
$$R = 1.0000$$

$$DL = 0.04213$$

$$BEC = 0.04411$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	117.78	0.0028	P	8.1
2	☐	2.000	2.008	1383.42	0.0329	P	5.6
3	☐	500.000	495.164	314703.55	7.4196	P	1.6
4	☐	1250.000	1238.840	745437.12	18.5588	P	1.9
5	☐	2500.000	2522.219	1537854.11	37.7820	A	1.5
6	☐	5000.000	5073.191	3124620.09	75.9919	A	1.3
7	☐	10000.000	9959.487	6116525.53	149.1815	A	1.6
8	☐			1516.76	0.0365	P	3.9

$$y = 0.0150 * x + 0.0028$$

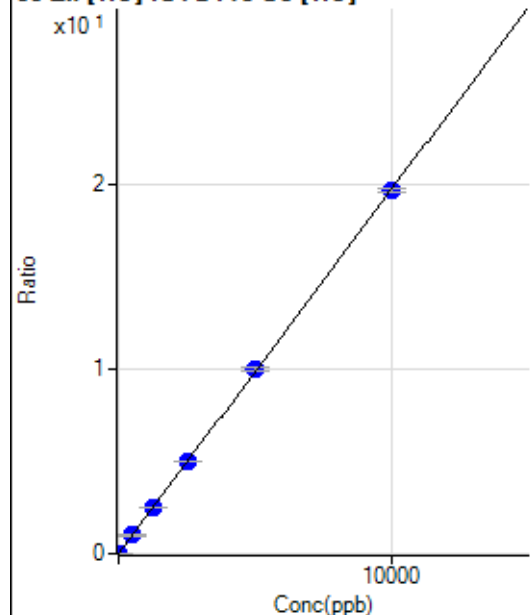
$$R = 1.0000$$

$$DL = 0.04527$$

$$BEC = 0.1862$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.33	0.0015	P	9.6
2	☐	2.000	2.062	234.45	0.0056	P	8.6
3	☐	500.000	504.739	42331.91	0.9981	P	2.3
4	☐	1250.000	1276.439	101288.37	2.5217	P	1.9
5	☐	2500.000	2524.237	202927.29	4.9854	P	0.9
6	☐	5000.000	5061.425	410891.33	9.9948	P	2.4
7	☐	10000.000	9959.687	806303.37	19.6659	P	1.2
8	☐			1086.72	0.0261	P	3.6

$$y = 0.0020 * x + 0.0015$$

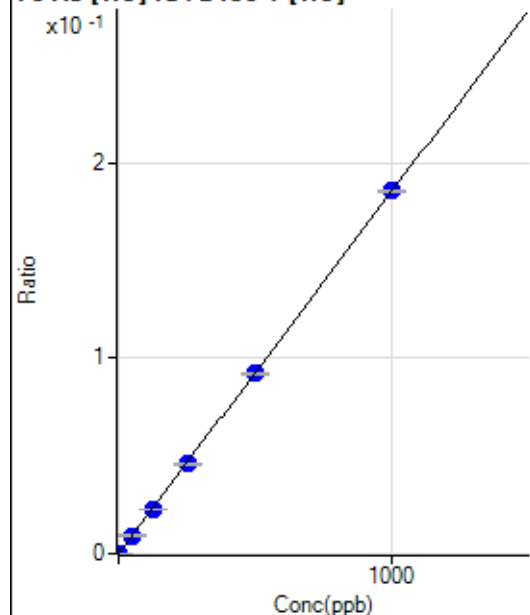
$$R = 1.0000$$

$$DL = 0.2188$$

$$BEC = 0.7593$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.33	0.0000	P	19.7
2	☐	1.000	1.010	68.34	0.0002	P	8.5
3	☐	50.000	50.265	3083.32	0.0093	P	1.0
4	☐	125.000	123.451	7325.64	0.0229	P	1.0
5	☐	250.000	247.443	14803.55	0.0459	P	1.8
6	☐	500.000	496.911	30182.42	0.0921	P	1.0
7	☐	1000.000	1002.364	59754.63	0.1857	P	0.7
8	☐			30.00	0.0001	P	32.4

$$y = 1.8521E-004 * x + 2.2631E-005$$

$$R = 1.0000$$

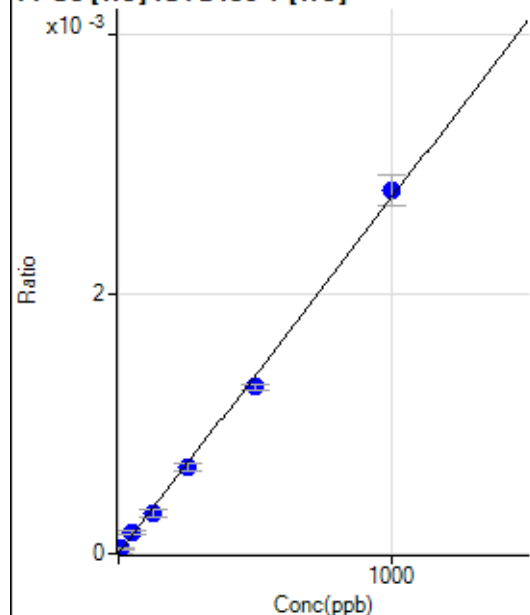
$$DL = 0.07227$$

$$BEC = 0.1222$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	13.706	13.33	0.0000	P	25.8
3	☐	50.000	60.101	55.56	0.0002	P	15.0
4	☐	125.000	111.420	98.89	0.0003	P	18.3
5	☐	250.000	243.472	216.67	0.0007	P	7.8
6	☐	500.000	467.262	421.12	0.0013	P	3.1
7	☐	1000.000	1019.150	900.04	0.0028	P	8.5
8	☐			2.22	0.0000	P	86.6

$$y = 2.7416\text{E-}006 * x + 3.3881\text{E-}006$$

$$R = 0.9989$$

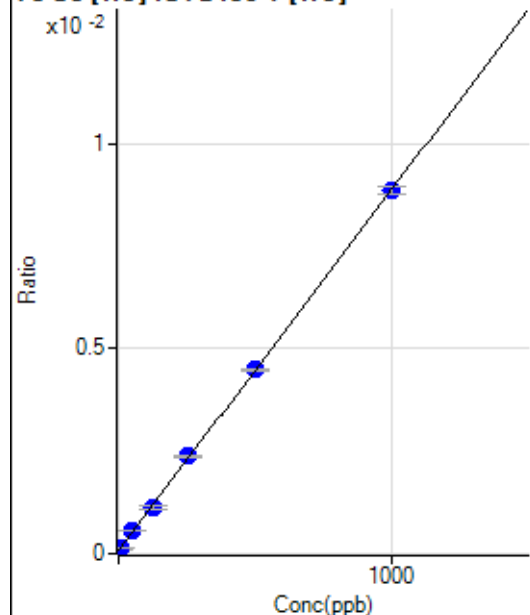
$$DL = 6.421$$

$$BEC = 1.236$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.33	0.0001	P	10.9
2	☐	5.000	6.935	46.34	0.0001	P	20.2
3	☐	50.000	53.635	182.69	0.0006	P	0.9
4	☐	125.000	120.235	364.38	0.0011	P	8.2
5	☐	250.000	261.018	767.10	0.0024	P	2.0
6	☐	500.000	501.567	1472.56	0.0045	P	1.4
7	☐	1000.000	996.866	2846.91	0.0088	P	2.0
8	☐			34.00	0.0001	P	20.6

$$y = 8.7923\text{E-}006 * x + 8.1337\text{E-}005$$

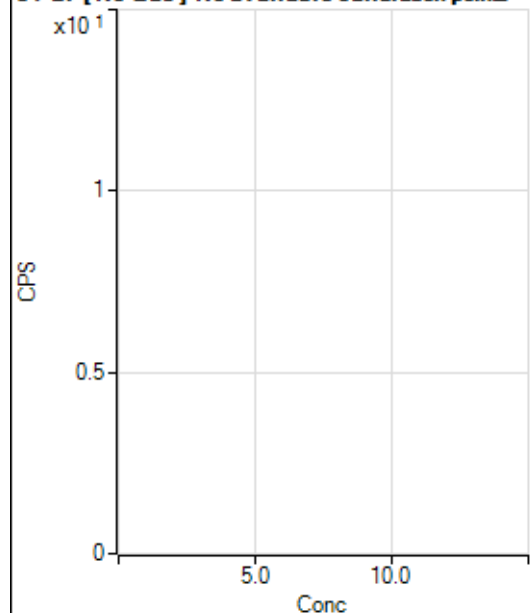
$$R = 0.9999$$

$$DL = 3.025$$

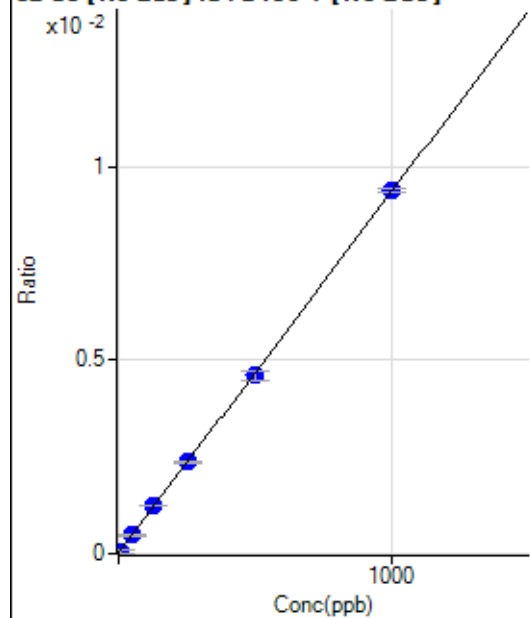
$$BEC = 9.251$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2619.63		P	5.2
2	☐			2592.93		P	5.1
3	☐			2612.94		P	5.0
4	☐			2519.51		P	4.6
5	☐			2706.41		P	4.9
6	☐			2516.17		P	5.3
7	☐			2489.46		P	3.1
8	☐			2683.04		P	6.5

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.81	0.0000	P	30.1
2	☐	5.000	3.750	139.43	0.0000	P	112.
3	☐	50.000	49.259	1420.97	0.0005	P	2.9
4	☐	125.000	131.128	3585.87	0.0012	P	2.9
5	☐	250.000	253.555	7052.82	0.0024	P	2.1
6	☐	500.000	491.224	14523.82	0.0046	P	4.7
7	☐	1000.000	1002.777	28571.09	0.0094	P	1.0
8	☐			106.29	0.0000	P	43.8

$$y = 9.3471E-006 * x + 1.2969E-005$$

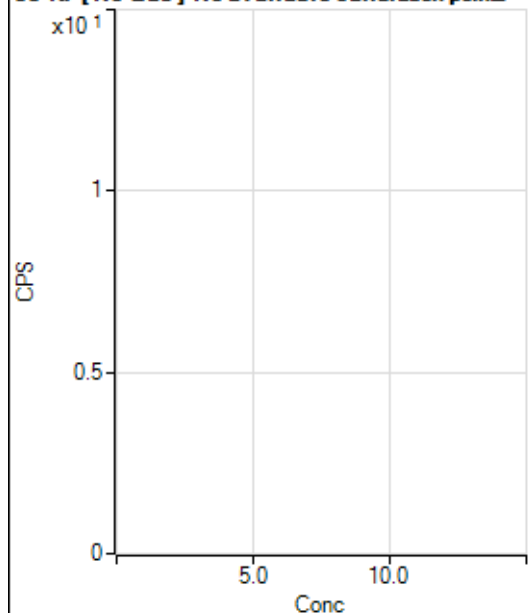
$$R = 0.9999$$

$$DL = 1.253$$

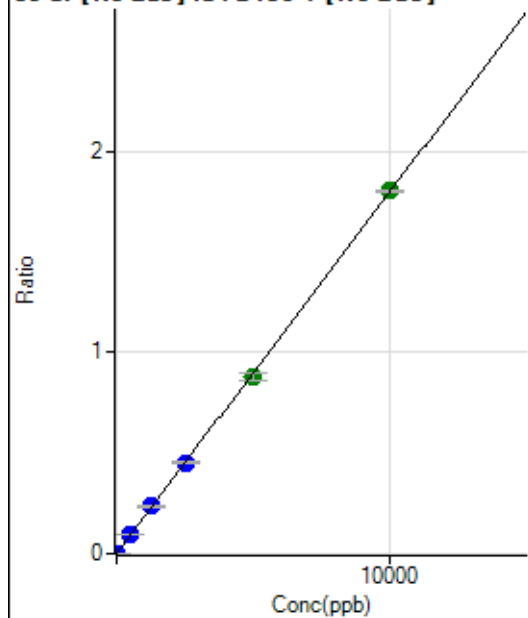
$$BEC = 1.388$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1606.78		P	1.2
2	☐			1684.57		P	6.0
3	☐			1703.46		P	1.1
4	☐			1615.67		P	2.8
5	☐			1636.78		P	7.5
6	☐			1653.45		P	1.1
7	☐			1662.34		P	2.3
8	☐			1599.00		P	3.9

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2600.32	0.0009	P	2.9
2	☐	1.000	0.858	3050.43	0.0010	P	10.2
3	☐	500.000	504.682	274403.49	0.0914	P	0.6
4	☐	1250.000	1306.633	681316.62	0.2353	P	2.5
5	☐	2500.000	2522.965	1342101.45	0.4536	P	2.2
6	☐	5000.000	4892.295	2771880.70	0.8787	A	4.6
7	☐	10000.000	10040.798	5487000.42	1.8024	A	0.9
8	☐			4164.63	0.0014	P	2.3

$$y = 1.7942E-004 * x + 8.9202E-004$$

$$R = 0.9999$$

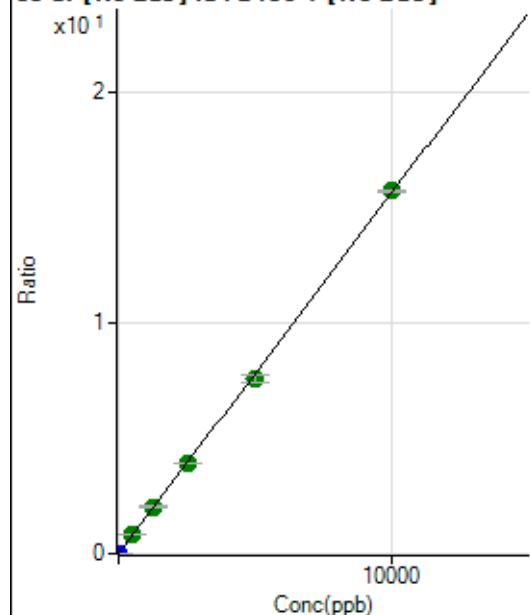
$$DL = 0.4389$$

$$BEC = 4.972$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	100.00	0.0000	P	58.2
2	☐	1.000	1.036	4814.86	0.0016	P	1.2
3	☐	500.000	513.265	2401517.96	0.8003	A	0.7
4	☐	1250.000	1296.928	5854769.71	2.0221	A	2.1
5	☐	2500.000	2510.164	11581320.5	3.9137	A	1.8
6	☐	5000.000	4849.503	23847648.9	7.5610	A	5.2
7	☐	10000.000	10066.178	47776623.2	15.6944	A	0.5
8	☐			15133.60	0.0050	P	4.6

$$y = 0.0016 * x + 3.4358E-005$$

$$R = 0.9998$$

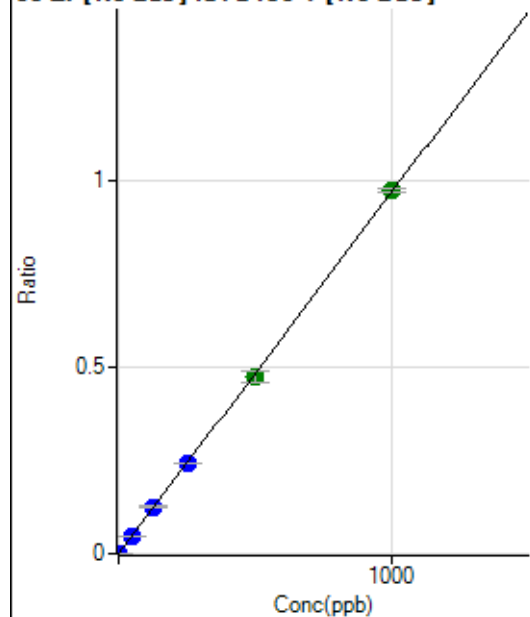
$$DL = 0.03847$$

$$BEC = 0.02204$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0000	P	33.8
2	☐	1.000	0.949	2811.47	0.0010	P	7.4
3	☐	50.000	50.099	145630.70	0.0485	P	1.0
4	☐	125.000	129.522	363047.14	0.1254	P	2.3
5	☐	250.000	250.446	717352.82	0.2424	P	1.4
6	☐	500.000	489.671	1494383.39	0.4739	A	5.8
7	☐	1000.000	1004.483	2959335.40	0.9721	A	1.1
8	☐			816.71	0.0003	P	9.7

$$y = 9.6773E-004 * x + 4.5811E-005$$

$$R = 0.9999$$

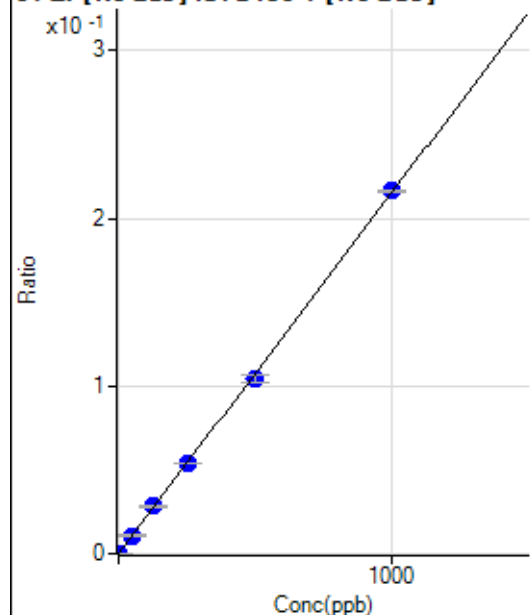
$$DL = 0.04798$$

$$BEC = 0.04734$$

Weight: <None>

Min Conc: 0

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



	R _j t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	16.9
2	☐	1.000	1.045	705.59	0.0002	P	8.5
3	☐	50.000	50.421	32571.98	0.0109	P	3.1
4	☐	125.000	132.009	82211.91	0.0284	P	2.3
5	☐	250.000	250.378	159322.15	0.0538	P	1.9
6	☐	500.000	485.359	329204.01	0.1044	P	4.4
7	☐	1000.000	1006.329	658626.00	0.2164	P	0.4
8	☐			211.12	0.0001	P	12.0

$$y = 2.1497E-004 * x + 1.7153E-005$$

R = 0.9998

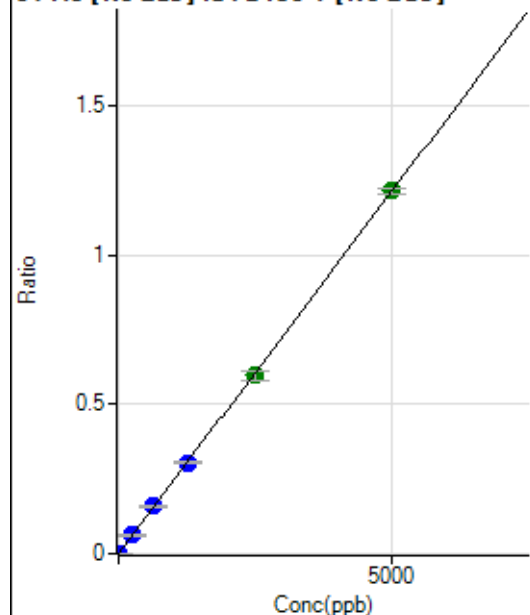
DL = 0.04041

BEC = 0.07979

Weight: <None>

Min Conc: 0

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



	R _j t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.44	0.0000	P	28.2
2	☐	5.000	5.208	3750.60	0.0013	P	2.4
3	☐	250.000	252.775	183814.36	0.0613	P	2.2
4	☐	625.000	658.655	461955.28	0.1596	P	3.3
5	☐	1250.000	1261.417	904341.05	0.3056	P	1.3
6	☐	2500.000	2460.756	1880184.96	0.5961	A	5.0
7	☐	5000.000	5012.422	3696508.81	1.2143	A	1.5
8	☐			1113.96	0.0004	P	13.3

$$y = 2.4224E-004 * x + 2.3839E-005$$

R = 0.9999

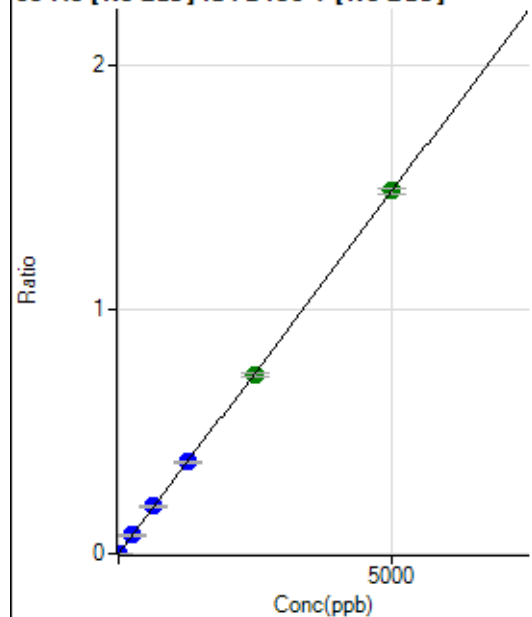
DL = 0.08319

BEC = 0.09841

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	100.
2	☐	5.000	4.787	4161.83	0.0014	P	9.6
3	☐	250.000	253.630	225423.66	0.0751	P	1.3
4	☐	625.000	655.246	561843.36	0.1941	P	2.2
5	☐	1250.000	1267.177	1110507.06	0.3753	P	2.0
6	☐	2500.000	2466.078	2304997.86	0.7303	A	2.8
7	☐	5000.000	5008.705	4515023.67	1.4833	A	1.5
8	☐			1444.57	0.0005	P	11.7

$$y = 2.9614\text{E-}004 * x + 8.5814\text{E-}006$$

$$R = 0.9999$$

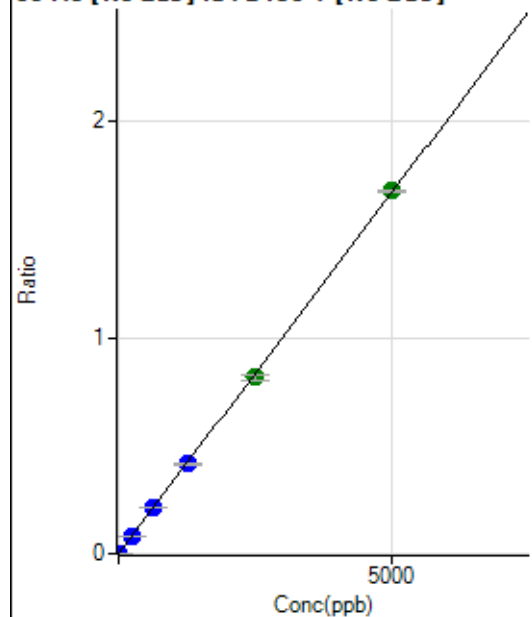
$$DL = 0.08746$$

$$BEC = 0.02898$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.23	0.0000	P	46.9
2	☐	5.000	4.610	4564.77	0.0016	P	4.3
3	☐	250.000	250.685	251284.91	0.0837	P	1.7
4	☐	625.000	645.732	624446.83	0.2157	P	1.9
5	☐	1250.000	1244.226	1229610.98	0.4155	P	1.9
6	☐	2500.000	2445.579	2577222.00	0.8167	A	3.4
7	☐	5000.000	5026.029	5109445.08	1.6785	A	0.8
8	☐			2008.54	0.0007	P	1.9

$$y = 3.3395\text{E-}004 * x + 2.4779\text{E-}005$$

$$R = 0.9999$$

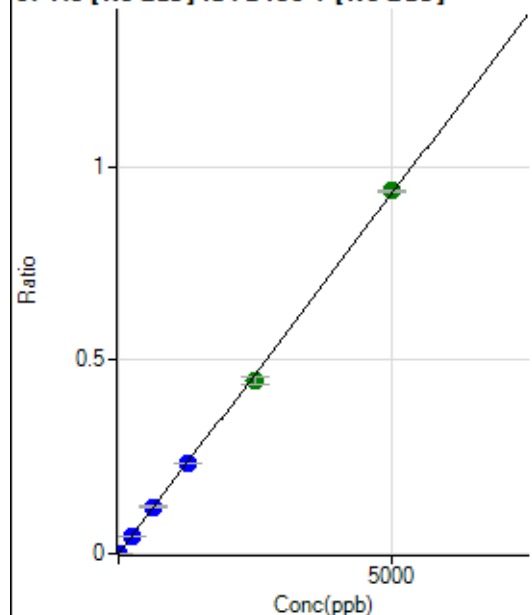
$$DL = 0.1045$$

$$BEC = 0.0742$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.9
2	☐	5.000	4.675	2555.86	0.0009	P	2.8
3	☐	250.000	249.469	139202.01	0.0464	P	1.8
4	☐	625.000	649.928	349901.50	0.1208	P	1.8
5	☐	1250.000	1255.343	690755.42	0.2334	P	0.9
6	☐	2500.000	2403.537	1409949.42	0.4469	A	3.9
7	☐	5000.000	5043.807	2854608.72	0.9378	A	0.9
8	☐			966.73	0.0003	P	7.2

$$y = 1.8592E-004 * x + 6.6894E-006$$

$$R = 0.9997$$

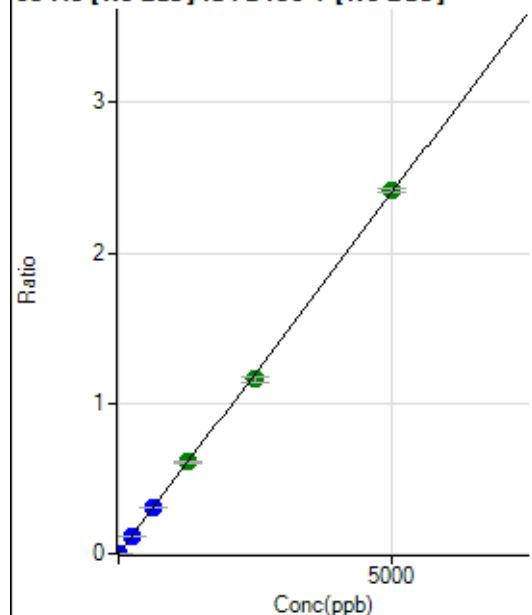
$$DL = 0.07109$$

$$BEC = 0.03598$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	50.2
2	☐	5.000	4.809	6746.25	0.0023	P	2.9
3	☐	250.000	247.937	356854.88	0.1189	P	0.8
4	☐	625.000	642.062	891401.53	0.3079	P	3.1
5	☐	1250.000	1272.409	1806052.34	0.6102	A	1.0
6	☐	2500.000	2421.527	3664219.57	1.1613	A	3.7
7	☐	5000.000	5031.605	7345251.82	2.4130	A	0.9
8	☐			2014.08	0.0007	P	15.8

$$y = 4.7956E-004 * x + 5.7153E-006$$

$$R = 0.9998$$

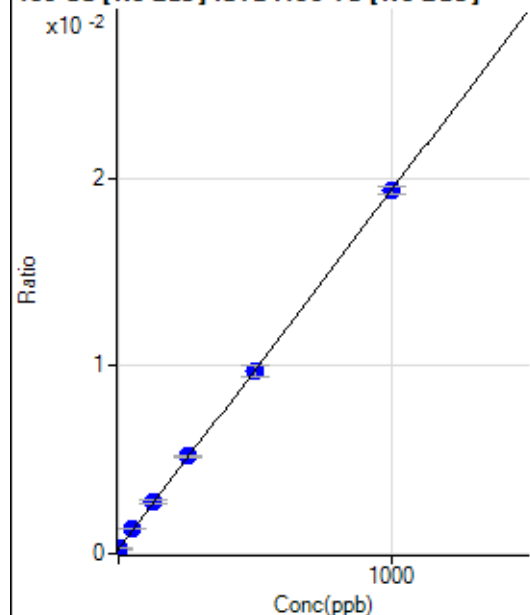
$$DL = 0.01796$$

$$BEC = 0.01192$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	502.80	0.0003	P	6.5
2	☐	1.000	2.697	605.58	0.0003	P	7.8
3	☐	50.000	56.262	2711.47	0.0013	P	6.5
4	☐	125.000	130.774	5718.01	0.0028	P	5.7
5	☐	250.000	258.991	10943.56	0.0052	P	1.2
6	☐	500.000	496.952	22151.53	0.0097	P	5.9
7	☐	1000.000	998.240	42067.49	0.0193	P	2.0
8	☐			500.02	0.0002	P	5.5

$$y = 1.9086\text{E-}005 * x + 2.5419\text{E-}004$$

R = 0.9999

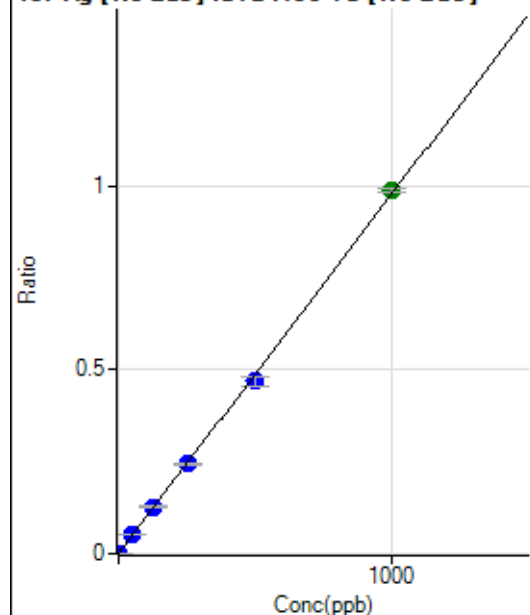
DL = 2.615

BEC = 13.32

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	35.1
2	☐	1.000	0.978	1905.74	0.0010	P	7.8
3	☐	50.000	52.116	103826.13	0.0509	P	2.2
4	☐	125.000	129.463	262845.88	0.1264	P	2.9
5	☐	250.000	249.258	512244.82	0.2434	P	3.1
6	☐	500.000	479.119	1064158.68	0.4678	P	5.5
7	☐	1000.000	1009.962	2148342.17	0.9861	A	1.2
8	☐			788.93	0.0004	P	12.3

$$y = 9.7635\text{E-}004 * x + 7.0337\text{E-}006$$

R = 0.9997

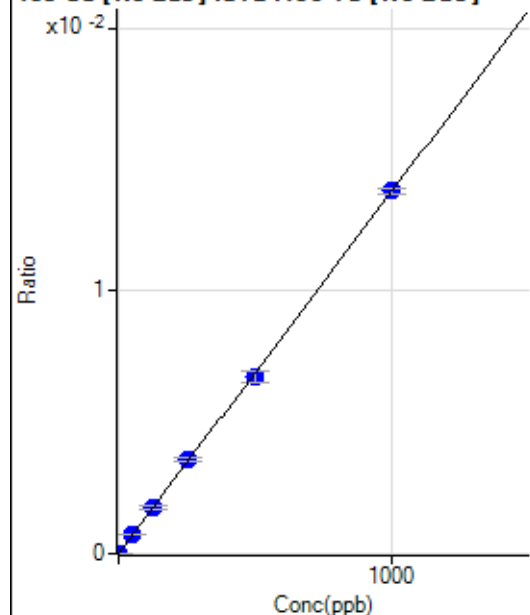
DL = 0.007576

BEC = 0.007204

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	57.2
2	☐	1.000	0.817	33.33	0.0000	P	34.9
3	☐	50.000	52.513	1484.82	0.0007	P	8.7
4	☐	125.000	127.385	3656.09	0.0018	P	4.5
5	☐	250.000	261.010	7570.23	0.0036	P	5.1
6	☐	500.000	488.499	15304.43	0.0067	P	5.7
7	☐	1000.000	1002.574	30071.69	0.0138	P	1.9
8	☐			44.45	0.0000	P	46.7

$$y = 1.3761\text{E-}005 * x + 5.6319\text{E-}006$$

$$R = 0.9998$$

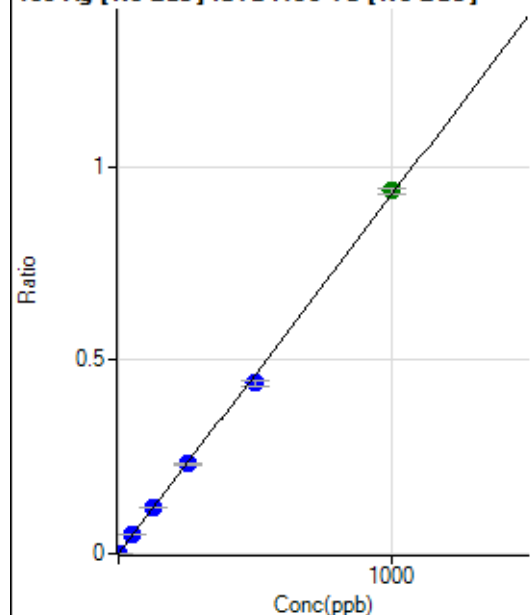
$$DL = 0.7025$$

$$BEC = 0.4093$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.
2	☐	1.000	0.972	1794.61	0.0009	P	5.3
3	☐	50.000	52.065	98479.12	0.0483	P	2.9
4	☐	125.000	129.047	248755.38	0.1196	P	3.2
5	☐	250.000	250.317	488557.35	0.2321	P	2.0
6	☐	500.000	475.388	1003307.51	0.4407	P	3.1
7	☐	1000.000	1011.618	2043211.59	0.9378	A	1.7
8	☐			666.70	0.0003	P	0.7

$$y = 9.2707\text{E-}004 * x + 4.1845\text{E-}006$$

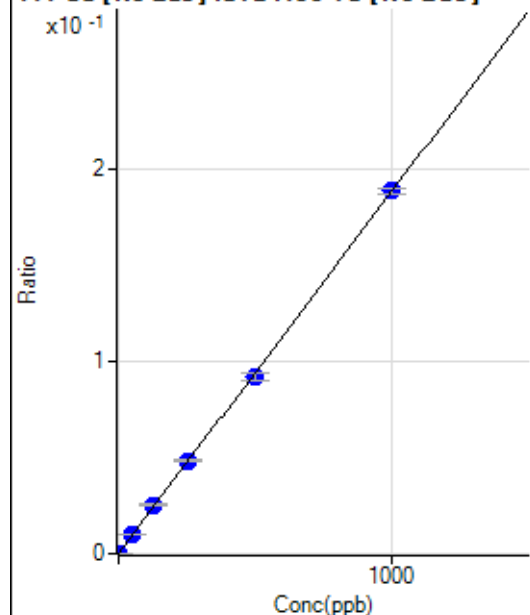
$$R = 0.9995$$

$$DL = 0.01357$$

$$BEC = 0.004514$$

Weight: <None>

Min Conc: 0

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

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	253.34	0.0001	P	5.9
2	☐	1.000	1.179	693.36	0.0003	P	4.7
3	☐	50.000	53.547	20809.51	0.0102	P	1.8
4	☐	125.000	132.722	52155.26	0.0251	P	4.2
5	☐	250.000	256.410	101778.64	0.0484	P	2.7
6	☐	500.000	488.967	209515.39	0.0921	P	5.1
7	☐	1000.000	1002.771	411146.47	0.1887	P	1.4
8	☐			356.40	0.0002	P	5.0

$$y = 1.8807\text{E-}004 * x + 1.2806\text{E-}004$$

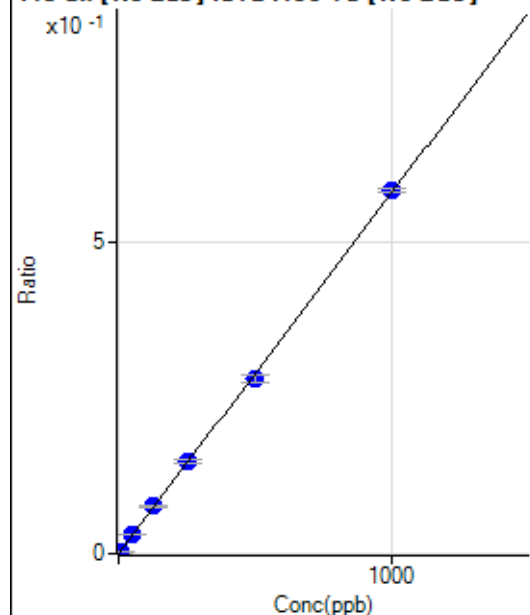
$$R = 0.9999$$

$$DL = 0.1211$$

$$BEC = 0.6809$$

Weight: <None>

Min Conc: 0

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

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	144.45	0.0001	P	38.4
2	☐	5.000	5.689	6679.57	0.0034	P	3.7
3	☐	50.000	52.861	62649.62	0.0307	P	2.1
4	☐	125.000	131.920	159129.04	0.0765	P	2.6
5	☐	250.000	255.760	312151.64	0.1483	P	2.8
6	☐	500.000	483.554	637806.73	0.2803	P	4.7
7	☐	1000.000	1005.771	1270072.46	0.5829	P	1.1
8	☐			505.58	0.0002	P	22.3

$$y = 5.7953\text{E-}004 * x + 7.2940\text{E-}005$$

$$R = 0.9998$$

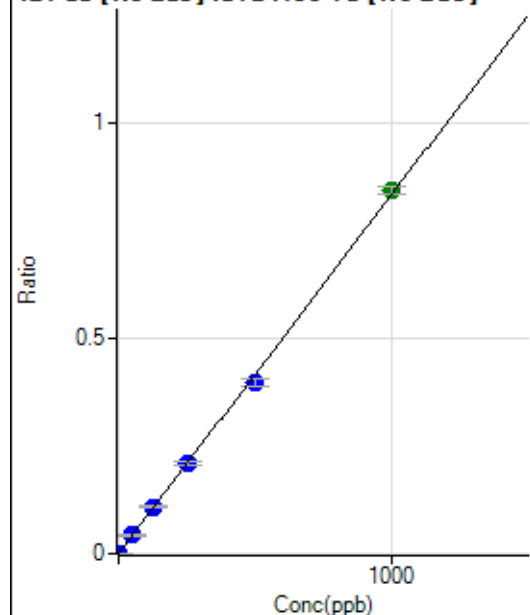
$$DL = 0.1451$$

$$BEC = 0.1259$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	34.5
2	☐	2.000	2.120	3531.12	0.0018	P	1.3
3	☐	50.000	51.483	87633.27	0.0429	P	2.5
4	☐	125.000	128.980	223672.62	0.1076	P	3.5
5	☐	250.000	250.895	440457.36	0.2093	P	3.0
6	☐	500.000	476.665	904649.13	0.3975	P	4.5
7	☐	1000.000	1010.872	1836708.66	0.8431	A	2.0
8	☐			1250.09	0.0006	P	9.2

$$y = 8.3400\text{E-}004 * x + 1.2676\text{E-}005$$

$$R = 0.9996$$

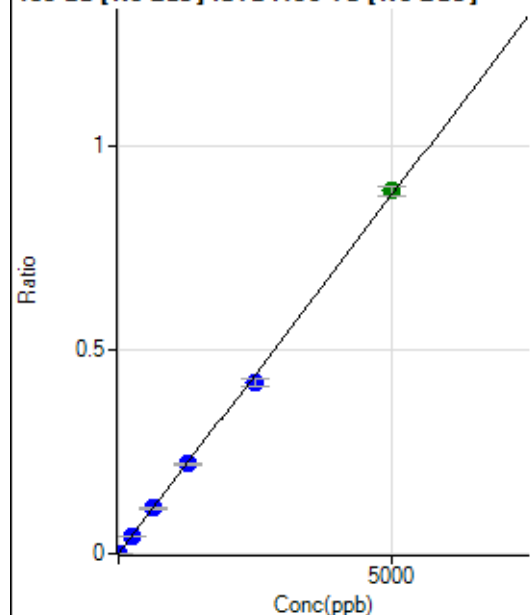
$$DL = 0.01574$$

$$BEC = 0.0152$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.
2	☐	10.000	9.541	3331.08	0.0017	P	7.9
3	☐	250.000	252.098	90412.33	0.0443	P	2.1
4	☐	625.000	635.494	232240.90	0.1117	P	3.3
5	☐	1250.000	1248.643	461960.06	0.2195	P	3.0
6	☐	2500.000	2375.999	950322.87	0.4176	P	4.5
7	☐	5000.000	5060.924	1937822.53	0.8895	A	2.4
8	☐			822.27	0.0004	P	12.5

$$y = 1.7577\text{E-}004 * x + 1.3898\text{E-}006$$

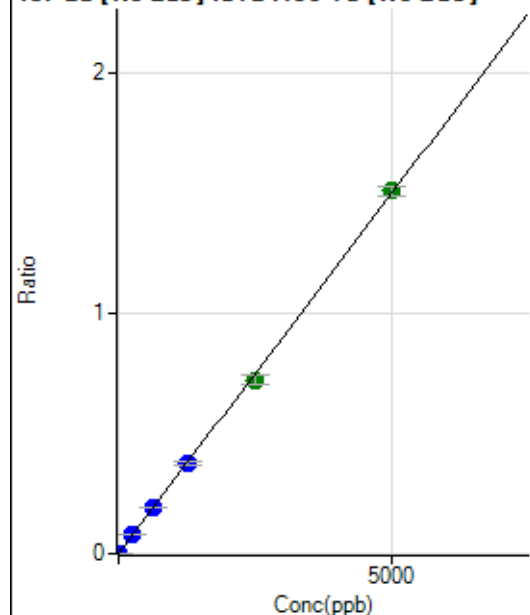
$$R = 0.9995$$

$$DL = 0.04109$$

$$BEC = 0.007907$$

Weight: <None>

Min Conc: 0

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

	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	44.9
2	☐	10.000	10.443	6215.50	0.0031	P	1.3
3	☐	250.000	257.378	157349.50	0.0771	P	1.9
4	☐	625.000	641.850	399860.84	0.1923	P	3.5
5	☐	1250.000	1259.200	794126.18	0.3773	P	3.3
6	☐	2500.000	2415.904	1646857.24	0.7239	A	5.2
7	☐	5000.000	5037.272	3287967.63	1.5093	A	2.3
8	☐			1666.81	0.0008	P	7.2

$$y = 2.9963E-004 * x + 5.6422E-006$$

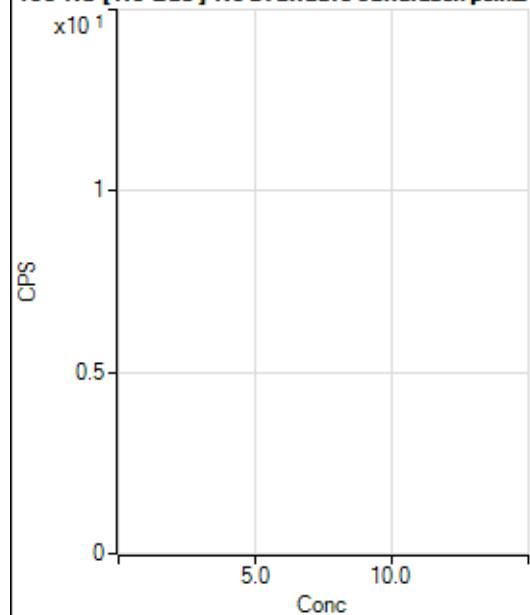
$$R = 0.9998$$

$$DL = 0.02537$$

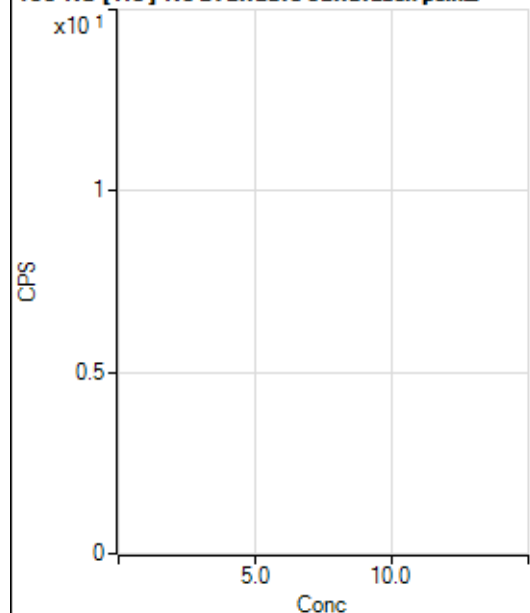
$$BEC = 0.01883$$

Weight: <None>

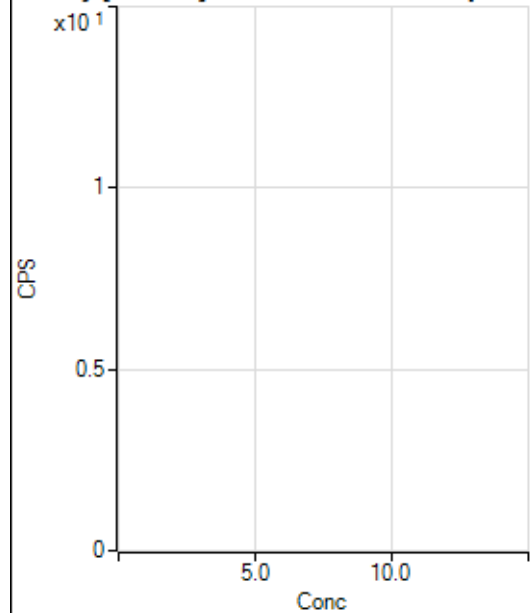
Min Conc: 0

150 Nd [No Gas] No available calibration points

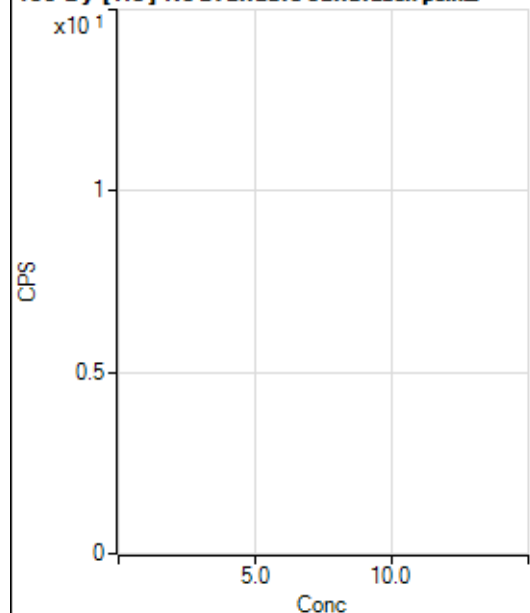
	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			6.67		P	173.
2	☐			4.44		P	173.
3	☐			11.11		P	91.7
4	☐			4.44		P	173.
5	☐			26.67		P	25.0
6	☐			40.00		P	44.1
7	☐			106.67		P	10.8
8	☐			22.22		P	75.5

150 Nd [He] No available calibration points

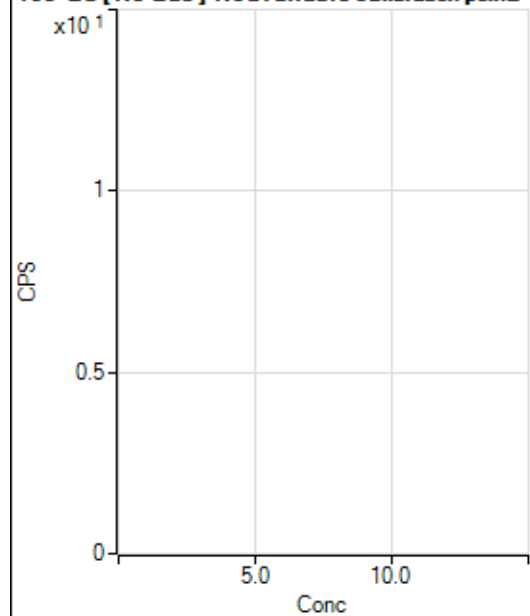
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.
5	☐			1.11		P	173.
6	☐			2.22		P	173.
7	☐			6.67		P	0.0
8	☐			5.55		P	124.

156 Dy [No Gas] No available calibration points

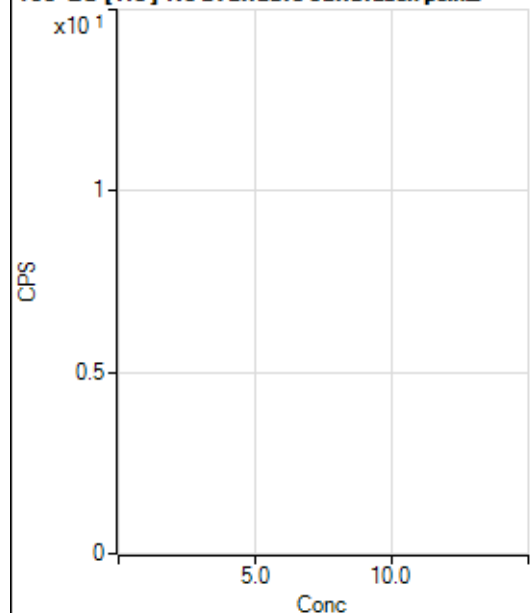
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	173.
2	☐			5.56		P	173.
3	☐			5.55		P	86.6
4	☐			16.67		P	100.
5	☐			22.22		P	57.3
6	☐			61.11		P	31.5
7	☐			105.56		P	25.4
8	☐			408.35		P	14.1

156 Dy [He] No available calibration points

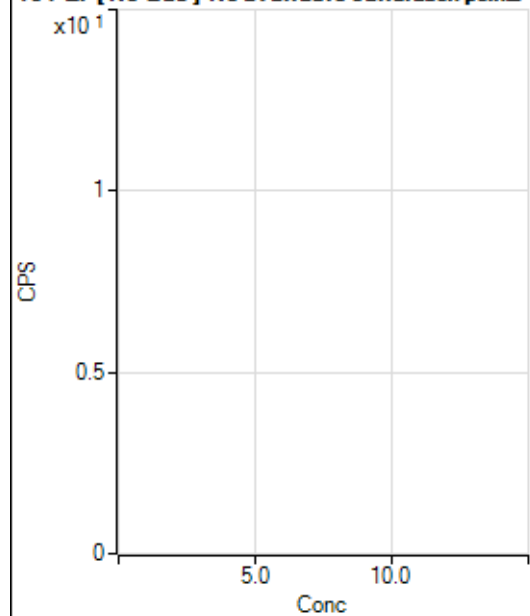
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			2.22		P	173.
4	☐			4.44		P	43.4
5	☐			13.33		P	90.2
6	☐			23.33		P	37.8
7	☐			34.44		P	14.8
8	☐			196.67		P	8.8

160 Gd [No Gas] Noavailable calibration poin_

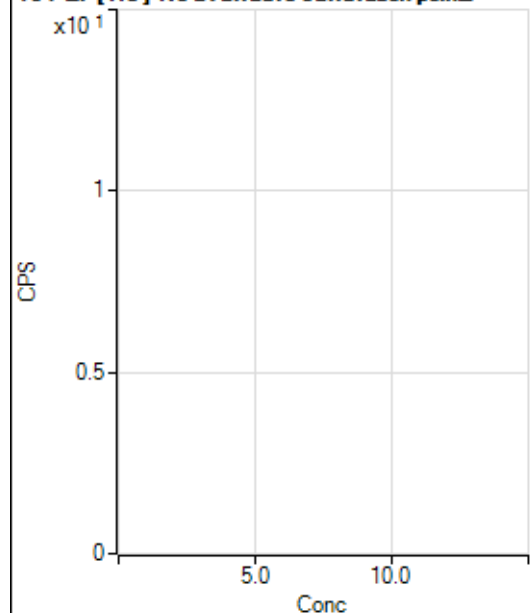
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	33.3
2	☐			19.44		P	65.5
3	☐			27.78		P	45.8
4	☐			36.11		P	13.3
5	☐			38.89		P	68.9
6	☐			61.11		P	15.7
7	☐			100.01		P	28.9
8	☐			427.80		P	3.0

160 Gd [He] No available calibration points

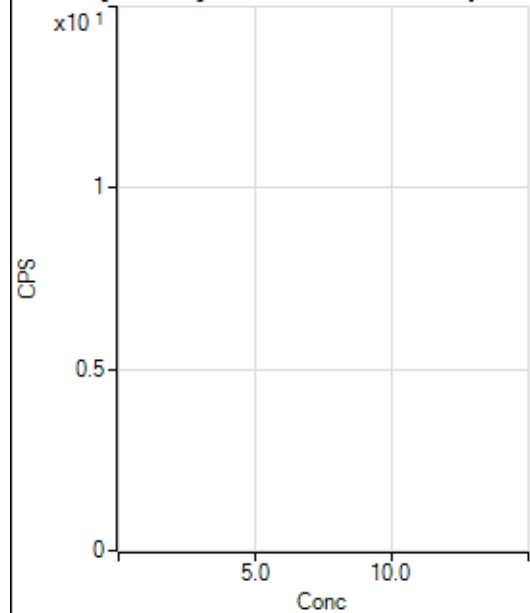
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	86.6
2	☐			5.56		P	91.6
3	☐			10.00		P	66.7
4	☐			7.78		P	24.7
5	☐			11.11		P	45.8
6	☐			37.78		P	68.5
7	☐			52.22		P	20.5
8	☐			241.12		P	8.9

164 Er [No Gas] No available calibration points

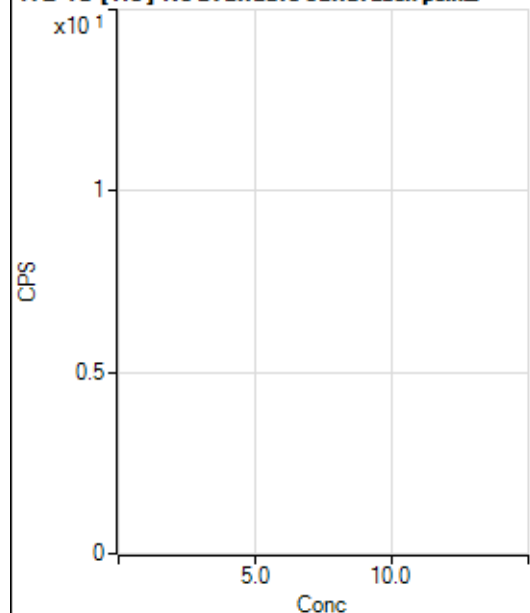
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐			16.67		P	50.0
3	☐			8.33		P	0.0
4	☐			16.67		P	132.
5	☐			19.44		P	89.2
6	☐			27.78		P	45.8
7	☐			30.56		P	31.5
8	☐			77.78		P	37.6

164 Er [He] No available calibration points

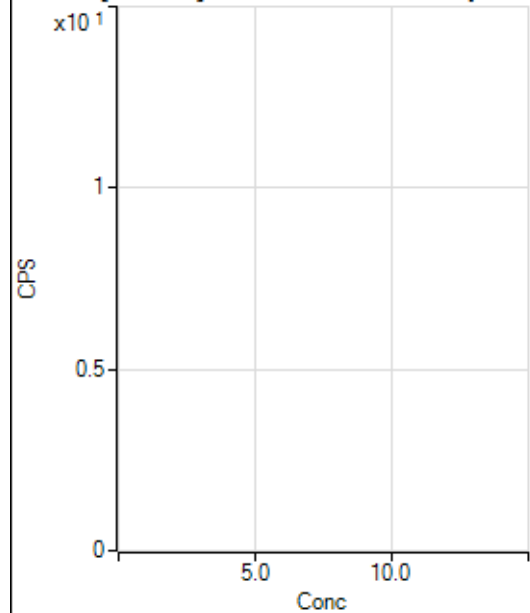
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			11.11		P	34.6
3	☐			4.45		P	86.6
4	☐			10.00		P	66.7
5	☐			11.11		P	62.5
6	☐			3.33		P	100.
7	☐			6.67		P	50.0
8	☐			30.00		P	11.1

172 Yb [No Gas] No available calibration points

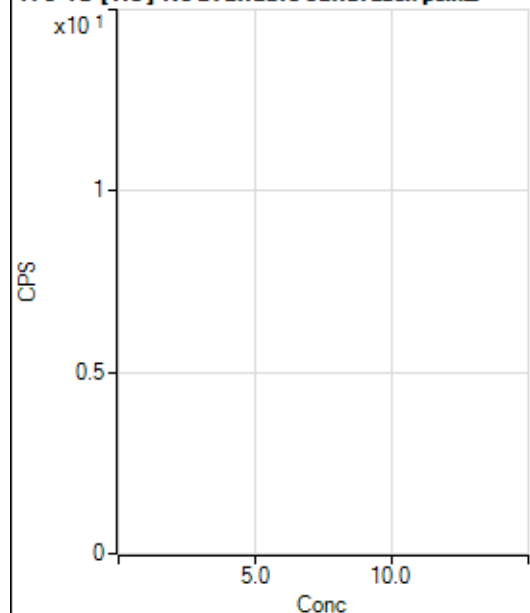
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			11.11		P	43.3
3	☐			5.55		P	86.6
4	☐			5.56		P	173.
5	☐			11.11		P	43.3
6	☐			16.67		P	100.
7	☐			22.22		P	86.6
8	☐			19.44		P	65.5

172 Yb [He] No available calibration points

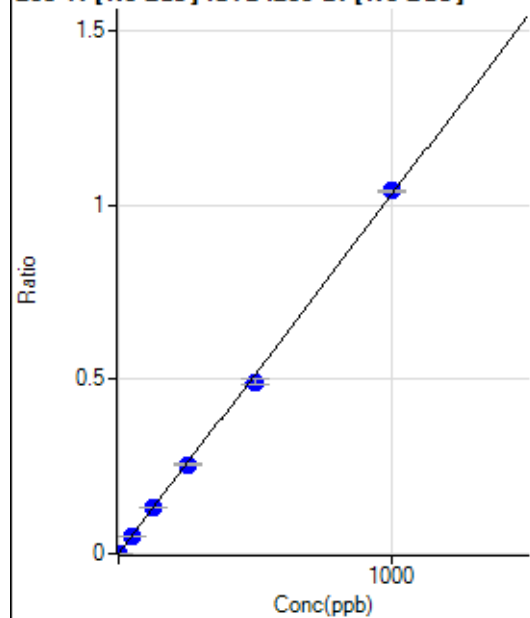
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.71		P	86.6
2	☐			0.00		P	
3	☐			5.56		P	100.
4	☐			9.26		P	69.2
5	☐			9.26		P	124.
6	☐			1.85		P	173.
7	☐			5.56		P	100.
8	☐			3.71		P	86.6

176 Yb [No Gas] No available calibration points

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			197.23		P	21.3
2	☐			191.67		P	11.5
3	☐			166.67		P	17.3
4	☐			238.90		P	23.2
5	☐			205.56		P	2.3
6	☐			233.34		P	23.4
7	☐			211.12		P	9.9
8	☐			205.56		P	12.4

176 Yb [He] No available calibration points

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			198.15		P	9.8
2	☐			120.37		P	9.6
3	☐			125.93		P	48.4
4	☐			111.11		P	32.8
5	☐			100.00		P	24.2
6	☐			103.71		P	25.3
7	☐			100.00		P	14.7
8	☐			124.08		P	14.4

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

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.23	0.0001	P	13.6
2	☐	1.000	1.001	1183.43	0.0011	P	13.6
3	☐	50.000	48.747	54852.98	0.0503	P	1.4
4	☐	125.000	127.831	148063.17	0.1317	P	2.5
5	☐	250.000	247.909	291368.01	0.2554	P	1.5
6	☐	500.000	478.603	597899.58	0.4929	P	3.2
7	☐	1000.000	1010.930	1208984.58	1.0411	P	0.5
8	☐			475.02	0.0004	P	13.0

$$y = 0.0010 * x + 9.2326E-005$$

$$R = 0.9997$$

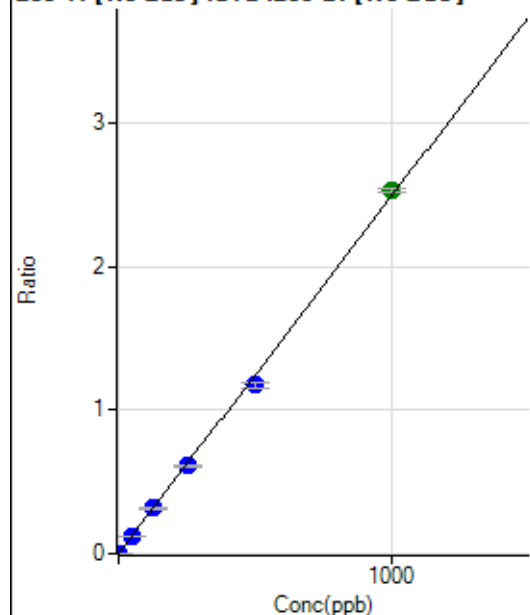
$$DL = 0.03661$$

$$BEC = 0.08966$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	152.78	0.0001	P	20.0
2	☐	1.000	0.973	2703.14	0.0026	P	9.4
3	☐	50.000	48.172	130784.17	0.1199	P	2.5
4	☐	125.000	127.170	355534.08	0.3164	P	2.6
5	☐	250.000	245.118	695582.40	0.6096	P	0.4
6	☐	500.000	472.015	1423527.26	1.1738	P	3.6
7	☐	1000.000	1015.033	2930912.07	2.5240	A	1.0
8	☐			1172.31	0.0011	P	9.1

$$y = 0.0025 * x + 1.4486E-004$$

$$R = 0.9994$$

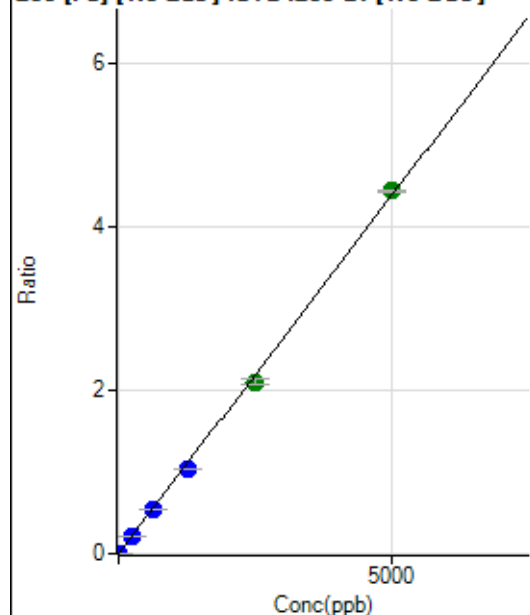
$$DL = 0.03491$$

$$BEC = 0.05826$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	111.11	0.0001	P	34.7
2	☐	1.000	1.004	1038.95	0.0010	P	3.2
3	☐	250.000	235.946	225629.28	0.2069	P	3.0
4	☐	625.000	610.766	601828.98	0.5354	P	1.6
5	☐	1250.000	1175.963	1176131.57	1.0308	P	0.2
6	☐	2500.000	2403.999	2555536.46	2.1071	A	3.4
7	☐	5000.000	5068.992	5159142.13	4.4429	A	0.9
8	☐			3591.30	0.0032	P	2.7

$$y = 8.7646E-004 * x + 1.0543E-004$$

$$R = 0.9996$$

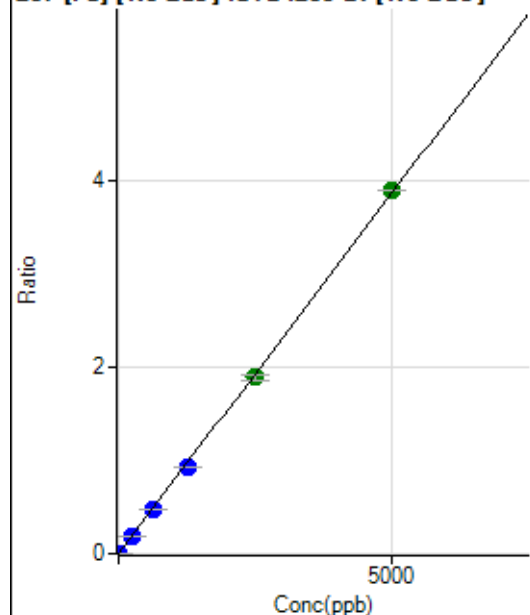
$$DL = 0.1253$$

$$BEC = 0.1203$$

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	112.97	0.0001	P	18.0
2	☐	1.000	0.914	857.45	0.0008	P	0.7
3	☐	250.000	238.097	200717.33	0.1840	P	1.0
4	☐	625.000	620.623	538964.53	0.4795	P	2.2
5	☐	1250.000	1194.020	1052546.39	0.9225	P	0.4
6	☐	2500.000	2449.642	2294960.24	1.8924	A	3.7
7	☐	5000.000	5040.316	4521696.92	3.8937	A	0.1
8	☐			3317.15	0.0030	P	2.9

$$y = 7.7249\text{E-}004 * x + 1.0713\text{E-}004$$

R = 0.9999

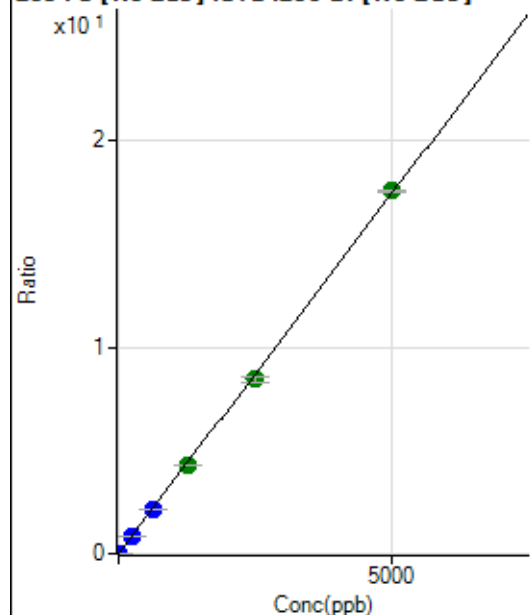
DL = 0.07479

BEC = 0.1387

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	455.57	0.0004	P	11.6
2	☐	1.000	0.997	4122.57	0.0039	P	4.7
3	☐	250.000	240.227	913755.49	0.8378	P	1.7
4	☐	625.000	618.204	2422429.59	2.1554	P	2.4
5	☐	1250.000	1228.038	4884791.67	4.2812	A	0.5
6	☐	2500.000	2428.656	10267658.5	8.4663	A	3.5
7	☐	5000.000	5042.501	20412657.3	17.5778	A	0.4
8	☐			15040.77	0.0136	P	0.6

$$y = 0.0035 * x + 4.3230\text{E-}004$$

R = 0.9998

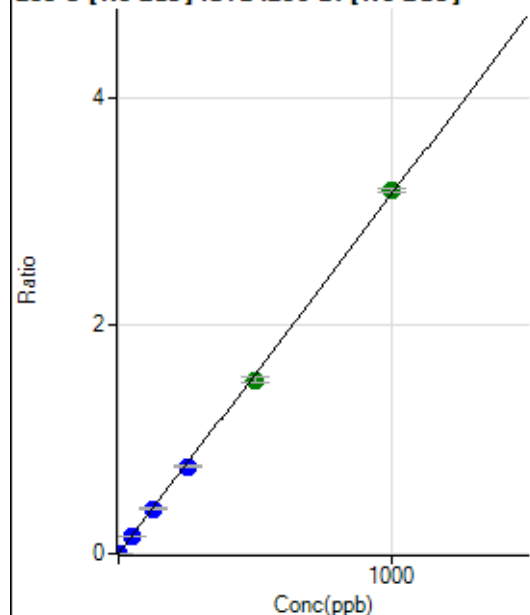
DL = 0.04331

BEC = 0.124

Weight: <None>

Min Conc: 0

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



	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	115.
2	☐	1.000	1.032	3436.68	0.0033	P	4.9
3	☐	50.000	48.380	166081.68	0.1523	P	1.0
4	☐	125.000	124.711	441122.63	0.3925	P	2.8
5	☐	250.000	242.815	871983.45	0.7642	P	0.8
6	☐	500.000	483.659	1846022.11	1.5223	A	3.8
7	☐	1000.000	1010.084	3691774.13	3.1791	A	1.1
8	☐			544.47	0.0005	P	9.0

$$y = 0.0031 * x + 1.0608E-005$$

$$R = 0.9998$$

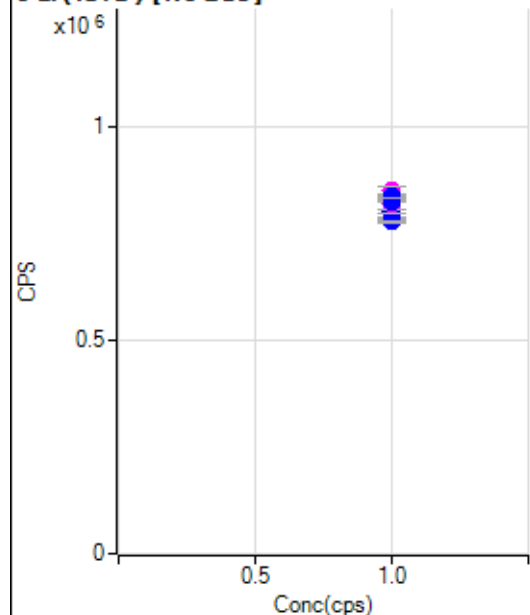
$$DL = 0.01163$$

$$BEC = 0.00337$$

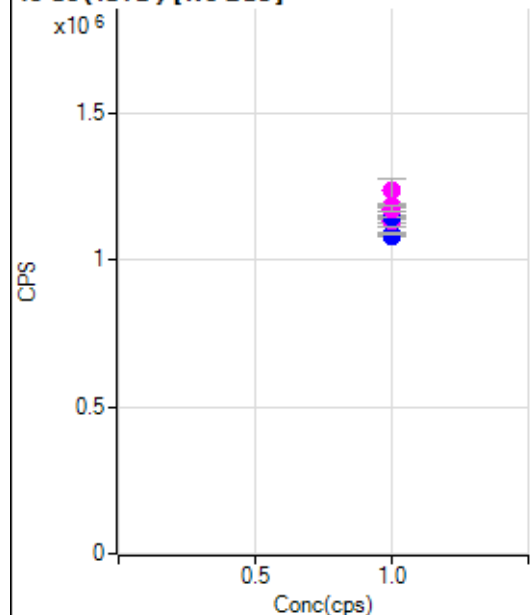
Weight: <None>

Min Conc: 0

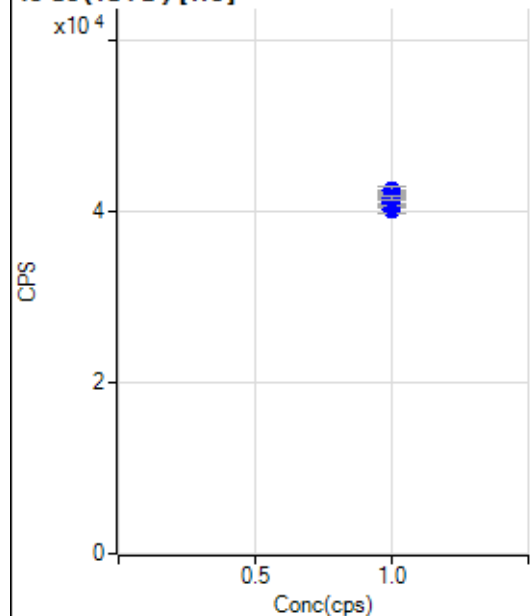
6 Li (ISTD) [No Gas]



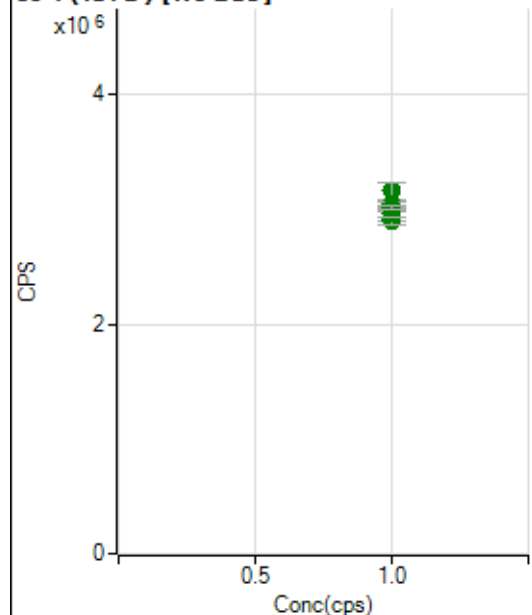
	R _{jc} t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		787823.94		P	0.3
2	☐	1.000		778963.19		P	0.4
3	☐	1.000		802778.38		P	1.2
4	☐	1.000		820359.88		M	2.6
5	☐	1.000		826978.21		P	0.2
6	☐	1.000		850893.80		M	2.3
7	☐	1.000		838154.06		P	0.3
8	☐	1.000		835167.57		P	0.3

45 Sc (ISTD) [No Gas]

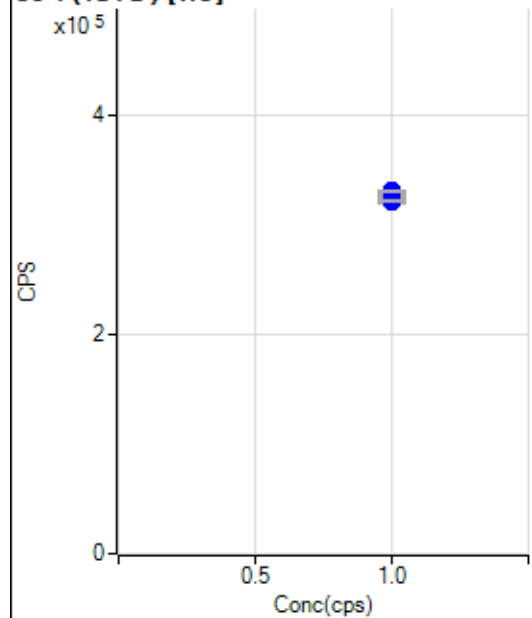
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1082195.49		P	0.5
2	☐	1.000		1089184.88		P	0.6
3	☐	1.000		1134708.21		M	1.4
4	☐	1.000		1134120.63		M	4.0
5	☐	1.000		1147884.31		P	0.2
6	☐	1.000		1236502.20		M	6.8
7	☐	1.000		1184850.82		M	1.1
8	☐	1.000		1175869.34		M	2.0

45 Sc (ISTD) [He]

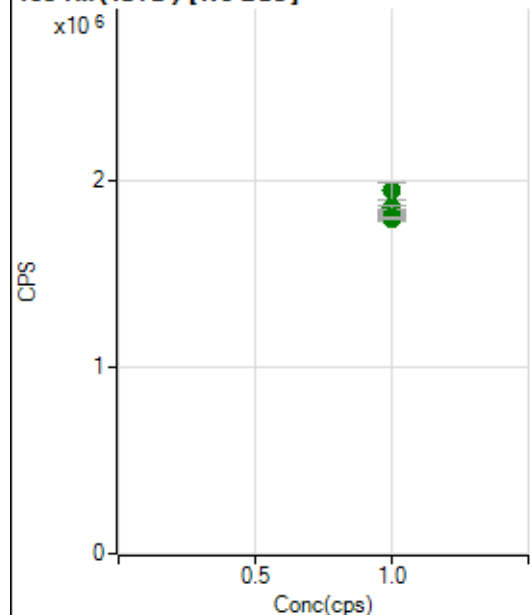
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		42263.07		P	1.6
2	☐	1.000		42096.99		P	0.6
3	☐	1.000		42422.49		P	2.1
4	☐	1.000		40172.72		P	1.3
5	☐	1.000		40706.41		P	0.8
6	☐	1.000		41124.31		P	2.1
7	☐	1.000		41004.07		P	1.4
8	☐	1.000		41610.05		P	1.0

89 Y (ISTD) [No Gas]

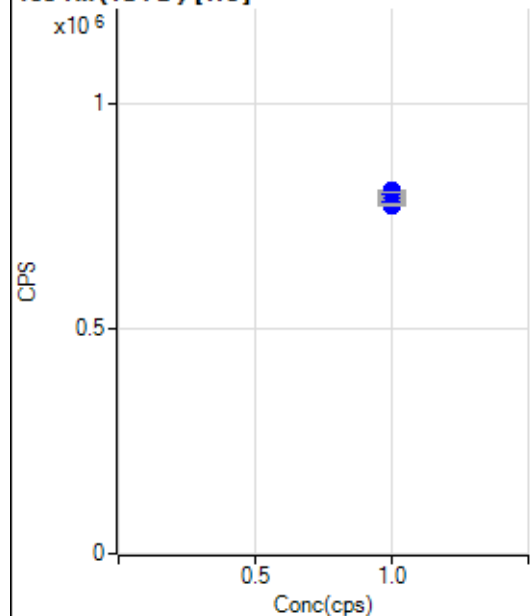
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2915398.12		A	1.0
2	☐	1.000		2918265.34		A	1.0
3	☐	1.000		3000999.30		A	1.2
4	☐	1.000		2896204.44		A	2.2
5	☐	1.000		2959651.52		A	1.5
6	☐	1.000		3158896.13		A	4.6
7	☐	1.000		3044315.23		A	1.5
8	☐	1.000		3008334.64		A	0.9

89 Y (ISTD) [He]

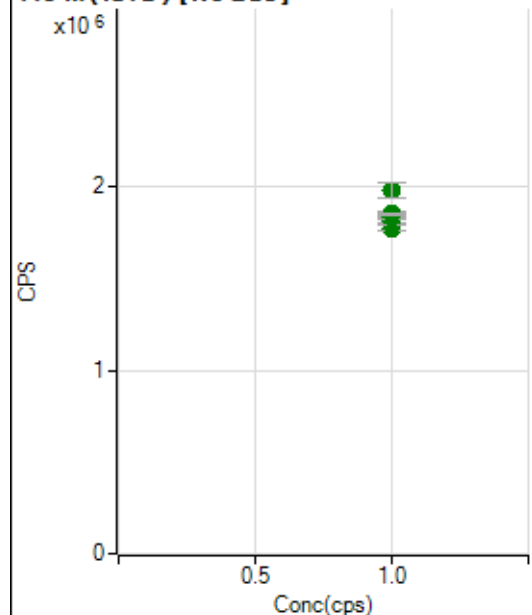
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		323597.83		P	1.1
2	☐	1.000		325903.26		P	0.9
3	☐	1.000		330391.28		P	0.9
4	☐	1.000		320071.72		P	0.4
5	☐	1.000		322856.59		P	1.6
6	☐	1.000		327872.39		P	0.4
7	☐	1.000		321845.74		P	0.9
8	☐	1.000		330831.77		P	0.6

103 Rh (ISTD) [No Gas]

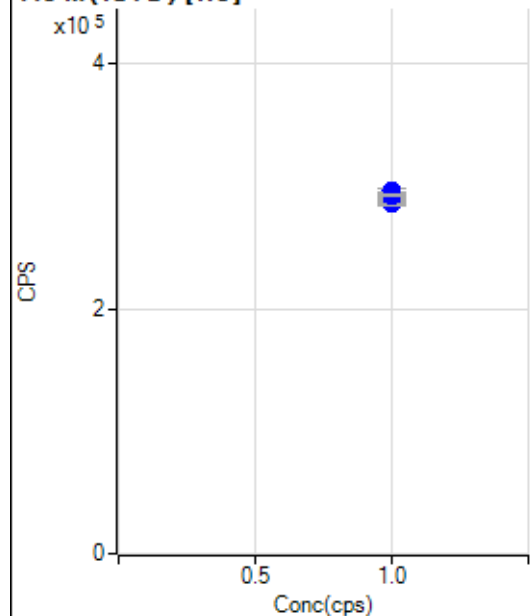
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1805270.77		A	0.7
2	☐	1.000		1804668.62		A	1.0
3	☐	1.000		1831741.31		A	0.8
4	☐	1.000		1791056.33		A	0.9
5	☐	1.000		1825741.60		A	0.7
6	☐	1.000		1943002.41		A	5.1
7	☐	1.000		1853287.43		A	1.0
8	☐	1.000		1799442.16		A	0.6

103 Rh (ISTD) [He]

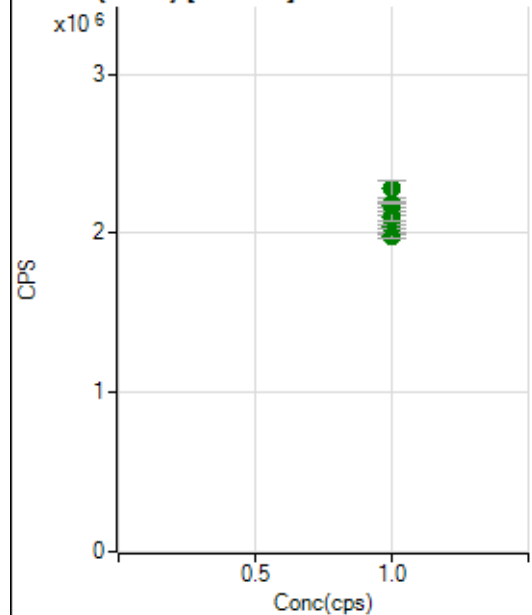
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		788262.90		P	0.4
2	☐	1.000		785183.27		P	0.8
3	☐	1.000		806328.04		P	0.7
4	☐	1.000		787927.61		P	0.4
5	☐	1.000		797246.80		P	0.3
6	☐	1.000		799914.11		P	0.8
7	☐	1.000		782281.39		P	0.8
8	☐	1.000		774822.40		P	0.6

115 In (ISTD) [No Gas]

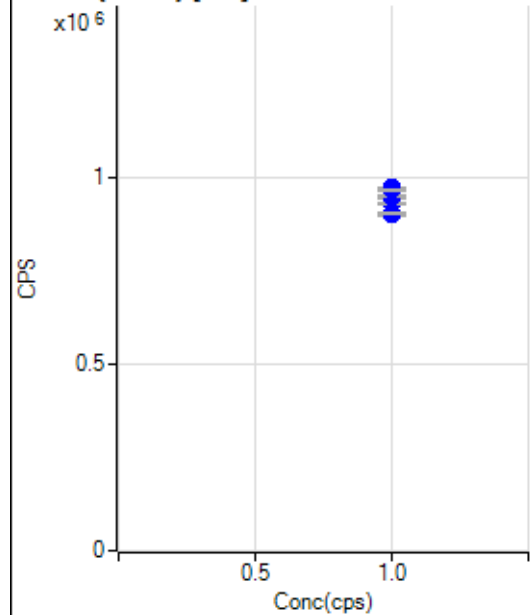
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1775568.82		A	1.5
2	☐	1.000		1797754.37		A	0.2
3	☐	1.000		1842296.49		A	1.0
4	☐	1.000		1814006.31		A	2.2
5	☐	1.000		1839052.53		A	1.1
6	☐	1.000		1977749.88		A	4.1
7	☐	1.000		1860325.88		A	0.7
8	☐	1.000		1850784.81		A	0.6

115 In (ISTD) [He]

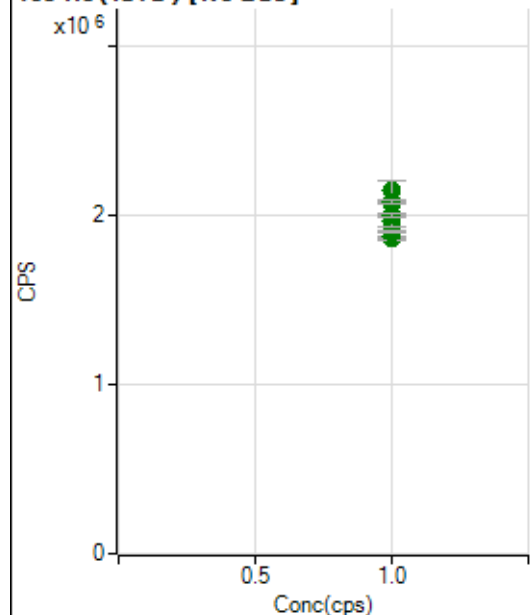
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		289072.32		P	0.8
2	☐	1.000		290317.97		P	0.6
3	☐	1.000		296192.47		P	1.1
4	☐	1.000		291172.65		P	0.5
5	☐	1.000		292191.10		P	1.0
6	☐	1.000		294718.66		P	0.6
7	☐	1.000		285705.74		P	0.5
8	☐	1.000		292532.28		P	0.5

159 Tb (ISTD) [No Gas]

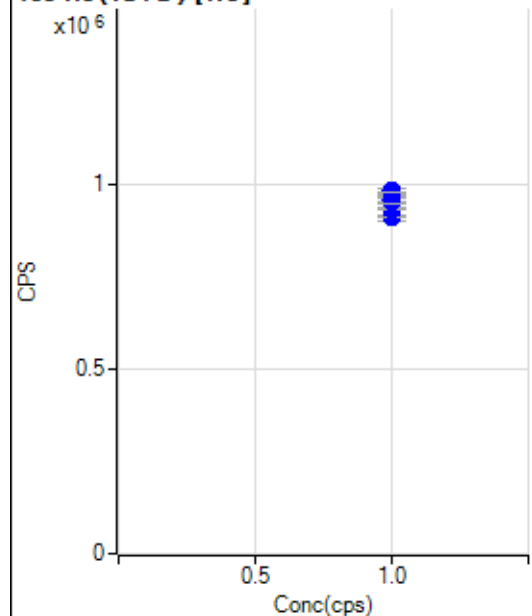
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1977272.59		A	1.4
2	☐	1.000		1982828.65		A	1.7
3	☐	1.000		2040669.21		A	1.7
4	☐	1.000		2080506.97		A	2.9
5	☐	1.000		2106037.45		A	2.8
6	☐	1.000		2278583.09		A	4.5
7	☐	1.000		2178843.35		A	1.2
8	☐	1.000		2191051.27		A	0.6

159 Tb (ISTD) [He]

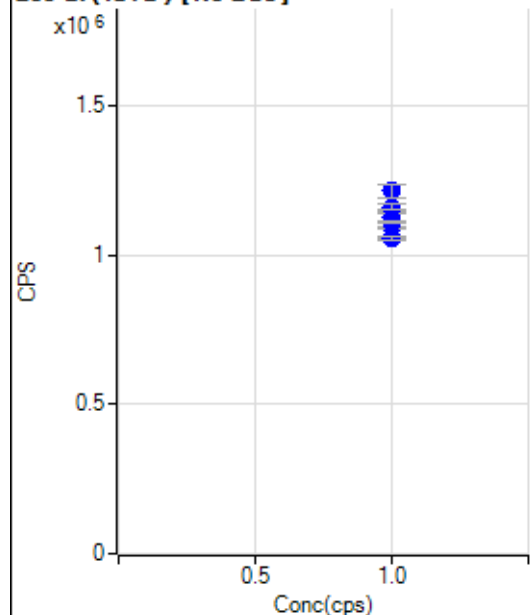
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		901992.80		P	0.9
2	☐	1.000		902725.74		P	0.8
3	☐	1.000		931270.23		P	0.5
4	☐	1.000		947462.76		P	0.9
5	☐	1.000		950846.07		P	1.0
6	☐	1.000		971846.56		P	0.8
7	☐	1.000		967652.28		P	0.7
8	☐	1.000		967651.47		P	0.4

165 Ho (ISTD) [No Gas]

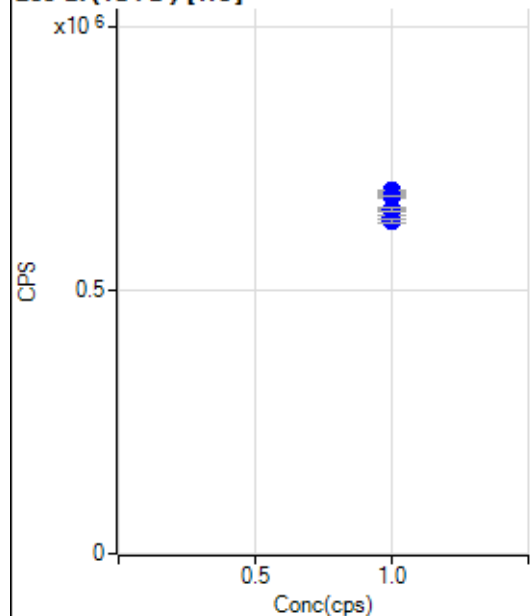
	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1863884.53		A	0.6
2	☐	1.000		1874211.76		A	2.4
3	☐	1.000		1898124.33		A	0.9
4	☐	1.000		1965860.85		A	3.6
5	☐	1.000		1996667.60		A	1.6
6	☐	1.000		2141235.16		A	5.3
7	☐	1.000		2068196.14		A	0.6
8	☐	1.000		2076829.58		A	1.2

165 Ho (ISTD) [He]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		907522.05		P	1.4
2	☐	1.000		910349.67		P	0.4
3	☐	1.000		931220.71		P	0.5
4	☐	1.000		951896.21		P	0.4
5	☐	1.000		953935.38		P	1.7
6	☐	1.000		980757.08		P	1.4
7	☐	1.000		970443.29		P	0.6
8	☐	1.000		976872.30		P	0.3

209 Bi (ISTD) [No Gas]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1053572.80		P	0.8
2	☐	1.000		1054674.82		P	1.3
3	☐	1.000		1090682.41		P	0.9
4	☐	1.000		1124296.29		P	2.2
5	☐	1.000		1141003.24		P	0.4
6	☐	1.000		1213855.69		P	3.8
7	☐	1.000		1161297.49		P	1.3
8	☐	1.000		1108423.37		P	0.6

209 Bi (ISTD) [He]

	Rjc t	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		639478.77		P	1.0
2	☐	1.000		632302.73		P	0.9
3	☐	1.000		654952.75		P	0.3
4	☐	1.000		679243.70		P	0.7
5	☐	1.000		678935.84		P	0.8
6	☐	1.000		689154.63		P	0.5
7	☐	1.000		678830.04		P	0.3
8	☐	1.000		653247.19		P	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8060321MS.b
Acq. Date-Time 2021-06-03 12:28:10
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		2178	21778.02			0.799	5.000
24		10660	106602.75			1.131	5.000
25		1511	15108.27			0.953	5.000
26		1837	18366.24			1.218	5.000
59		3462	34622.73			0.675	5.000
113		1651	16505.09			1.039	5.000
115		5129	51292.57			0.613	5.000
206		1833	18329.79			2.265	5.000
207		1512	15122.85			2.711	5.000
208		3742	37418.61			1.870	5.000
220		1	10.40			15.726	

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

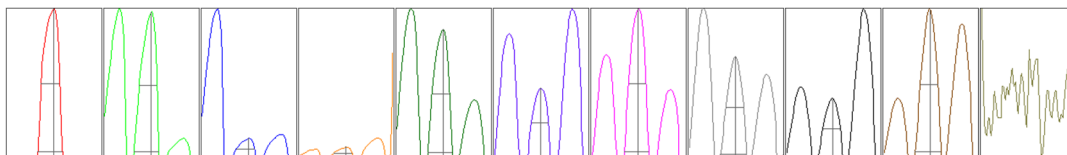
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2148	2180	2182	2190	2190
24	10479	10602	10697	10760	10763
25	1488	1506	1519	1518	1524
26	1812	1815	1859	1858	1840
59	3433	3470	3474	3444	3490
113	1629	1652	1639	1660	1672
115	5114	5182	5101	5131	5117
206	1767	1841	1835	1838	1883
207	1441	1542	1520	1523	1535
208	3624	3754	3748	3777	3807

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	3913.04	9.00	8.90 - 9.10	
24	19914.39	24.00	23.90 - 24.10	
25	2730.62	25.00	24.90 - 25.10	
26	3239.26	26.00	25.90 - 26.10	
59	6492.67	59.00	58.90 - 59.10	
113	3230.55	113.00	112.90 - 113.10	
115	9778.68	115.00	114.90 - 115.10	
206	3443.98	206.00	205.90 - 206.10	
207	2842.48	207.00	206.90 - 207.10	
208	7014.40	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.775	0.900	
24	0.57	0.781	0.900	
25	0.58	0.741	0.900	
26	0.59	0.781	0.900	
59	0.55	0.778	0.900	
113	0.54	0.697	0.900	
115	0.54	0.770	0.900	
206	0.56	0.817	0.900	
207	0.55	0.776	0.900	
208	0.56	0.823	0.900	
220	0.40			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.48 L/min Dilution Gas 0.44 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	9.7 V	Deflect	16.6 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1499 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		783	7834.76			1.598	
89		2181	21809.12			1.499	
205		1574	15737.51			1.554	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	788	783	779	801	766
89	2193	2136	2172	2226	2179
205	1585	1595	1550	1593	1544

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.48 L/min	Dilution Gas	0.44 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	9.7 V	Deflect	5.8 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	190 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.7 mm		
EM					
Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1499 V